EVALUATING GEOMORPHIC CHANGE IN
LITTLE CREEK USING REPEATED
CROSS-SECTIONAL AND
LONGITUDINAL PROFILE SURVEYS

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COMMITTEE MEMBERSHIP

TITLE: EVALUATING GEOMORPHIC CHANGE IN
LITTLE CREEK USING REPEATED CROSS-
SECTIONAL AND LONGITUDINAL PROFILE
SURVEYS.

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Abstract

EVALUATING GEOMORPHIC CHANGE IN LITTLE CREEK USING REPEATED CROSS-SECTIONAL AND LONGITUDINAL PROFILE SURVEYS.

Six geomorphic study reaches were established in 2002 along a forested mountain stream (gradients range from 0.02 to 0.05) on Cal Poly's Swanton Pacific Ranch in Santa Cruz County, California. These study reaches are a component of paired and nested watershed studies in the approximately 500 hectare Little Creek watershed. The overall goal of this study was to monitor water quality and channel conditions before, during, and after a selective harvest of redwood. A selective harvest occurred in the North Fork of Little Creek in Summer 2008. In August 2009, approximately 90% of the Little Creek Watershed was burned in the Lockheed Fire. Channel change was evaluated by measuring ground profiles using traditional survey methods. Cross section and longitudinal profiles are surveyed annually every summer in the six study reaches. Change is assessed through evaluation of cross sections and longitudinal profiles, analysis of bed elevation and cross-sectional area change data, and analysis of residual pool characteristics and longitudinal profile variability. Changes in the channel during this time have been relatively small and are typically associated with movement or introduction of coarse woody debris to the stream channel. However, during the study period no large streamflow events occurred (return interval at the closest USGS gaging station does not exceed 5 years). Historically, large debris flow events have occurred in this watershed, with well documented events in 1955 and 1998. The survey data is an important tool for understanding change detection in channel characteristics before and after harvesting, and following fire disturbance.

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Chapter 1

Introduction

The shape, size, and gradient of an alluvial stream channel are functions of the amount of sediment supplied to the channel, vegetation on the banks, woody debris in the channel, and the magnitude and frequency of streamflow events (Montgomery & Buffington, 1998). Channel shape and condition have direct impacts on aquatic habitat quality. An understanding of channel stability and rates of change is also important to planning, managing, and mitigating human activities and development in the riparian area. Land use history (both upslope and in the riparian zone) and variation in climate have the ability to change all of the factors that influence channel shape and form. Observing changes in the channel may provide insights into the impacts on the riparian system from land management and changing climatic conditions that may be difficult or impossible to detect in other ways.

The Little Creek study is a multi-faceted study designed primarily to evaluate the ability of the current California Forest Practice Rules to maintain water quality and channel conditions during and after a selective timber harvest in the Santa

Cruz Mountains. In 2002, six channel morphology study reaches were established in Little Creek. In each reach there are several permanent benchmarks and ten monumented, permanent cross sections. The cross sections and a longitudinal profile through the reach are surveyed annually. This thesis evaluates the channel morphology data collected from 2002 through 2008 when the North Fork of Little Creek was selectively harvested.

Luna Leopold, an influential pioneer of quantitative geomorphology, stated that “Monumented benchmarks from which a survey may be repeated are a gift to the future” (Leopold et al., 2005). Besides providing a baseline for evaluating the direct impacts that may have occurred from this timber harvest, the data collected in this project provides valuable information that will help future scientists interpret field observations. Geomorphic processes (and the tectonic and climatic factors that drive them) often occur at rates that are highly variable over time. It is almost impossible within one person’s lifetime, let alone a graduate study, to make observations over a period long enough to understand the rates and variability of these processes. Observations that are well documented and repeatable allow future scientists to understand the timescales that these natural systems may operate on. An important part of this thesis is providing a long-term repository for these data, as well as ensuring that continued work meets the standards needed for this data set to be valuable in the future.

1.1 Goals and objectives

This project and document have several objectives:

1. Evaluate magnitude and characteristics of geomorphic change observed in study reaches by analyzing data collected from 2002–2008.

2. Determine factors that influence channel change in Little Creek.

Besides analyzing and interpreting data collected, another important part of this project is ensuring this data is useful to future scientists. There are two other goals of this project addressed in this thesis.

1. Critically evaluate methods used in past and modify them as needed to provide a robust long-term dataset of channel geometry.
2. Provide baseline information that can be used in the future to evaluate effects of the fire, future flood events, and human activity in the watershed. Ensure that data and benchmarks can be found in the future.

Chapter 2

Background

2.1 Little Creek Study

The work described in this thesis is part of the long-term Little Creek Study. The Little Creek Study (study) was designed to evaluate water quality and channel conditions, before, during and after a selective timber harvest. Little Creek is located within Swanton Pacific Ranch which serves as the school forest for the Natural Resources Management and Environmental Sciences Department at Cal Poly San Luis Obispo. The 3280-acre ranch is located in the Santa Cruz Mountains north of Davenport, CA. Little Creek is an approximately 5.5 km² tributary to Scotts Creek, which drains to the Pacific Ocean. Little Creek contains 1st and 2nd order channels as delineated on the 1:24,000 scale Davenport Quadrangle USGS topographic map. The long-term study began in 1997 with the construction of the Mainstem, North Fork, and South Fork flumes on Little Creek and installation of two rain gages, one near the Red House near the confluence with Scotts Creek, and the other at Landing 23 on the ridge between the North Fork and South Fork

tributaries. In the winter of 1997–1998 flood flows damaged the flumes. Repairs were made and additional instrumentation was purchased; successful monitoring began during the 2000–2001 winter. An additional natural channel gaging station was added in 2001 at the upper property line (Upper North Fork Flume). Cross-sectional and longitudinal profiles were established and first measured in 2002. The selective timber harvest occurred in the North Fork of Little Creek in the summer of 2008 using ground-based and cable yarding methods.

2.1.1 Paired and Nested Watershed Study

The primary purpose of the watershed study is to evaluate potential changes from the North Fork harvest on flow, turbidity, and suspended sediment load using both paired (North Fork/South Fork) and nested (North Fork/Upper North Fork) comparisons. The North Fork, South Fork, and Mainstem monitoring stations utilize natural-bottom, rated-section flumes constructed with redwood walls and a concrete sill at the downstream end. The Upper North Fork station utilizes a rated natural channel. Additional monitoring stations were added on two small tributaries in the 2007–2008 winter. Hourly water samples are taken during storm events and analyzed for turbidity and suspended sediment concentration. The methodology is based on the Caspar Creek Study (operated by the USDA Forest Service Pacific Southwest Research Station) on Jackson State Demonstration Forest. The suspended sediment data collected in Little Creek during the pre-harvest calibration period is discussed in a thesis by Gaedeke (2006). Temperature data is also measured at each station during the summer months.

2.1.2 Sediment Source Survey

Another aspect of the paired watershed study is an annual near-stream sediment source survey developed by former graduate student Brooke Akers. The purpose of the near-stream sediment source survey is to identify, quantify and monitor sediment inputs to Little Creek from near-stream landslides and streambank erosion, which provides another way of documenting changes along the watercourse. The location, size, and characteristics of streamside landslides and bank erosion features greater than 0.75 m^3 are documented in the survey. The initial survey was performed in 2002, with subsequent surveys in 2006, 2009, 2010, and 2011. The initial survey primarily identified features created by the February 1998 flood events where significant bank erosion and streamside landsliding occurred.

2.1.3 LiDAR

LiDAR data covering the Little Creek watershed has been collected in 2002, 2008, 2010 and 2011. Hilburn (2010) compared LiDAR-generated cross-sectional profiles to ground-surveyed profiles using the 2002 data. LiDAR generated cross sections had a vertical error of 0.61 m RMSE compared to ground-surveyed cross sections. The relatively low horizontal resolution (average of one ground return every 5.2 m^2) and vertical error made reliable detection of changes in the bankfull channel difficult. Comparisons of the 2008 and 2010 LiDAR data to the ground-surveyed cross sections has also been completed (Dietterick et al., 2012). Improvements in technology allow much higher sampling intensities and closer-spaced ground returns. Bankfull width was more accurately measured than bankfull depth or cross-sectional area. In 2010, two thirds of the LiDAR-derived cross-sections provided bankfull width within 10 percent (0.46 m) of the field-surveyed width.

The ground-surveyed longitudinal profiles were also compared in both plan and profile to LiDAR-derived longitudinal profiles (White, 2010). The LiDAR-derived channel planform position had an average 95 percent buffer width of 2.73 m (meaning 95 percent of the derived channel position was within 2.73 m of the surveyed channel position), a mean absolute difference in channel gradient of 0.0049, and a mean absolute difference in channel length of 2 percent.

2.2 Study Location

The study location is Cal Poly's Swanton Pacific Ranch in Little Creek, a tributary to Scotts Creek in western Santa Cruz County, California (Figure 2.1).

2.2.1 Climate

The Santa Cruz mountains have a Mediterranean climate with mild, wet winters and warm, dry summers. The Scotts Creek watershed drains the western side of Ben Lomond Mountain and local climate is highly variable and is driven primarily by distance from the ocean, elevation and aspect. In summer, temperatures are usually cool near the ocean where summer fog is common, and warmer inland and at higher elevations. In winter, rainfall is primarily driven by orographic processes and varies greatly with elevation. The elevation of Little Creek at its confluence with Scotts Creek is 9 m and the elevation of the highest ridgeline is 550 m. Mean annual precipitation is 75 cm at the mouth of the watershed and 125 cm at the upper ridgelines. Almost all precipitation falls between October and May and snow is very rare. Swanton Pacific Ranch operates 10 rain gages in the Scotts Creek Watershed; 8 are located in the Little Creek subwatershed.

Figure 2.1: Little Creek Location Map. Swanton Pacific Ranch boundary is shown in red.

2.2.2 Geology and Geomorphology

The Little Creek watershed is located in the tectonically active Santa Cruz Mountains. A restraining bend in the San Andreas Fault has resulted in rapid regional uplift and associated stream incision (Anderson, 1994). Much of Little Creek has inner gorge characteristics with steep side slopes leading down to the stream channel (slopes of 70 percent and steeper are common). Streamside landslides and bank failures as well as excavated colluvial hollows are common along most of the channel length. Topographic evidence (scarps and associated midslope benches, hummocky topography) for larger-scale, rotational, deep-seated slides of varying ages covers most of the watershed.

The watershed is underlain by four different rock types. Westward dipping Santa Cruz Mudstone and Santa Margarita Sandstone (Upper Miocene) comprise the western half of the watershed and the upper ridgelines. These sedimentary rocks unconformably overlay the igneous Ben Lomond Mountain quartz diorite (Cretaceous) and metamorphic rocks (schist and small amounts of marble) that are exposed in the lower slopes of the stream valleys and at upper elevations at the eastern edge of the watershed (Figure 2.2).

Figure 2.2: Geologic map and topography of the Little Creek Watershed (geology from Brabb (1989)). Topography and hillshade from 1m LiDAR derived DEM from 2010 flight. Contour Interval 40' (12.2m). Swanton Pacific Ranch Boundary shown in red. Key to geologic units: **Tsc** (brown) – Santa Cruz Mudstone; **Tsm** (tan) – Santa Margarita Sandstone; **qd** (pink) – quartz diorite; **sch** (purple) – schist; **Qal** (orange) – Quaternary alluvial deposits.

Evidence for large-scale landsliding and debris flows is common in the Little Creek watershed. In December of 1955, a debris flow originated in the South Fork of Little Creek and traveled downstream to the confluence with Scotts Creek destroying structures and causing loss of life in Swanton Valley. This debris flow transported logs and large boulders (larger than 1 m diameter) and deposited up to a meter of debris and mud in the Scotts Creek floodplain (B. McCrary pers. comm.) (see Figures 2.3 and 2.4). This debris flow possibly originated at a large landslide in the South Fork of Little Creek, 0.5 km upstream from the confluence. Flood events in 1982, 1986, and 1998 also caused significant landsliding and streambank erosion. Major changes in the channel of Little Creek were also

observed during these events.

Figure 2.3: Damage to house at mouth of Little Creek from 1955 flood. Photographer unknown.

2.2.3 Vegetation

Vegetation in the watershed varies with aspect, elevation and distance from the ocean. The ridgelines are dominated by chaparral vegetation and knobcone pine (*Pinus attenuata*). A mix of Douglas-fir (*Psuedotsuga menziesii* var. *menziesii*) and hardwoods are the predominant vegetation on midslope areas. Near stream channels and on north facing slopes vegetation is dominated by redwood (*Sequoia sempervirens*) with tanoak (*Notholithocarpus densiflorus*) and Douglas-fir as associates. The riparian corridor along the Mainstem of Little Creek is dominated by an even-aged stand of red alder (*Alnus rubra*) along with redwood, bay laurel (*Umbellularia californica*), Douglas-fir and maple (*Acer macrophyllum*). Much of the alder was recruited after the 1955 debris flow event. Above the confluence of the North and South Forks, red alder becomes less common and the riparian corridor is dominated by redwood and Douglas-fir.

Figure 2.4: Aerial photo from 1957 showing mouth of Little Creek and extent of 1955 debris flow deposits. Image from Scotts Creek Watershed Council website.

2.2.4 Ownership and Land Use

The majority of the Little Creek watershed is owned by the Peninsula Open Space Trust (POST) and Sempervirens Fund (42.8%) and Cal Poly Corporation (49.4%). POST/Sempervirens owns the eastern (upstream) portion of the watershed, and Cal Poly Corporation owns the western (downstream) portion. Small portions along the northern edge of the watershed are owned by Big Creek Lumber and other private landowners. The entire watershed was clearcut, burned and logged using railroads by the San Vicente Lumber Company around 1915. The primary

land use is still timber production. Both Cal Poly and POST/Sempervirens perform selective harvesting of second-growth redwood, with harvest entries every 10–18 years. Small amounts of Douglas-fir and hardwoods are also harvested for firewood. A small amount of the watershed on the southern ridgeline above the Staub House has been used for cattle grazing in the past, and Swanton Pacific Ranch is currently working to reintroduce grazing to these areas.

The Lockheed Fire occurred in August 2009 and burned most of the Little Creek Watershed (approximately 90%). Five of the six study reaches were located in the burned area. Much of the upper slopes of the watershed, especially the southerly facing slopes with chaparral and knobcone pine vegetation, burned at high or extreme intensity resulting in complete loss of canopy and ground cover. Small debris flows occurred in several tributaries draining these high burn severity areas in the 2009–2010 winter. Figure 2.5 is a burn severity map of the Lockheed Fire.

Figure 2.5: Burn severity map from the 2009 Lockheed Fire.

Chapter 3

Literature Review

Variations in sediment delivery, hydraulic discharge, and vegetation cause spatial and temporal variations in channel morphology. Over geologic time channels respond to tectonic uplift, landscape erosion, and climate variability. On historical time scales, channels respond to changes in sediment and water supply from land use history and channel modification (dams, levees, straightening, etc.) as well as those resulting from floods and droughts (Montgomery & Buffington, 1998). The ability of an alluvial channel to transport sediment is based on the shape and gradient of the channel, the character of the sediment, and quantity of water flowing through the reach. Differences in the amount of sediment supplied to a reach and the amount of sediment transported out of a reach result in a net change of sediment storage within a reach, which results in a change in channel geometry (Anderson, 2008). Understanding changes in the channel geometry (fill and scour) can provide insight into other processes and factors that are more difficult to measure directly.

Cross-sectional and longitudinal profiles have been used extensively to help understand the processes at work in rivers as well as the impacts and recovery rates from floods, land use changes, and wildfire in a variety of physical settings.

One of the earliest sets of repeated cross sections was on Watts Branch in Maryland (drainage area 9.6 km²). Data from this channel was used to help understand some of the bank erosion and point bar formation processes that lead to river meandering (Leopold et al., 1964) and impacts to streams from urbanization (Leopold et al., 2005). A series of repeated surveys were performed between 1953 and 1994, which showed that the stream and floodplain had aggraded over time. In many cross sections, the original channel had been completely filled by point bar deposition and the current channel existed in what was earlier the floodplain.

Madej & Ozaki (1996) used repeated cross sections on Redwood Creek in northwest California (drainage area 720 km²) to document downstream development and propagation of a sediment wave resulting from extensive poor logging practices and floods in 1955, 1964, 1972, and 1975. Surveys were repeated several times between 1973 and 1991 and generally documented scour of stored sediment from upper reaches of the channel and aggradation of lower reaches. Mean bed elevations at cross sections changed up to 1m (both scour and fill) during the survey period, and up to 9m of aggradation and channel widening of 150 percent to 300 percent associated with the 1964 flood was documented at some locations.

Nolan & Marron (1985, 1988) evaluated impacts of large storms on stream channel morphology in the Santa Cruz Mountains and northwestern California. The storm of January 4, 1982 caused flooding and landsliding throughout most of Santa Cruz County. Channel changes were evaluated at USGS gaging stations using data collected during stream discharge measurements. General patterns were

observed, but overall the response was highly variable, and depended on local geology and rainfall characteristics. General effects on channel morphology were scour in small first and second-order channels and some filling of larger higher-order channels. In localized reaches, deposition adjacent to large scale streamside landslides or abundant small scale landslides caused significant reductions in cross-sectional area. Streambanks in the Santa Cruz Mountains study area were generally bedrock and resistant to erosion, and most sediment appeared to originate from upper slope landslides and debris flows driven by high pore water pressure as well as scour of low order channels. Channels generally had high transport capacity and were only overwhelmed by sediment in localized areas.

This contrasts strongly with changes due to large flows in northwestern California (Nolan & Marron, 1985). Floods in 1964, 1972, and 1975 caused major changes in the channels (Lisle, 1981; Madej & Ozaki, 1996). Lisle (1981) observed mean bed elevation changes from 1m–4m and channel widening of 7 percent to 105 percent at gaging sites on north coast rivers. The primary source of sediment in these higher-order river systems appears to be streamside landslides caused by streambank erosion undercutting the toe of the hillslope. This process may drive a positive feedback loop, as more material is deposited to the channel, it aggrades and widens or deflects flow, eroding banks and causing more streamside landsliding (Nolan & Marron, 1985). The difference in response is a function of the geology, channel type, and associated fluvial processes.

Cross sections at a variety of channel scales (rills developing in unchanneled swales to perennial low gradient streams) have been used to understand impacts to channels resulting from wildfires in Colorado’s front range (Eccleston, 2008). Cross sections, aerial photographs, and field observations were used to understand responses and recovery of the Eel River and tributaries to floods in 1955, 1964,

and 1997 (Sloan, 2001). Cross sections and residual pool depths were used to study channel responses to logging in the North Fork of Caspar Creek. Lisle & Napolitano (1998) identified channel aggradation and changes in pool volumes associated with large woody debris inputs from buffer strips along clearcuts blocks. Cross sections and aerial-photo analysis were used to understand channel dynamics resulting from riparian vegetation changes that occurred after reintroduction of wolves to Yellowstone National Park (Beschta & Ripple, 2006).

Besides direct measures of channel change (scour, fill, widening, etc), other authors have observed that channel complexity is often impacted by large sediment inputs and have evaluated variability of channel geometry as a surrogate of habitat complexity. Madej (1999, 2001) studied recovery of channels from disturbance at a range of sizes and gradients. Autoregression analysis of residual channel depths was used to identify development of regular patterns in longitudinal geometry as streams recovered from large sediment inputs or other disturbance.

Bartley & Rutherford (2005) assessed measures of geomorphic variability in Chreitons Creek (drainage area 141 km²) in Victoria, Australia, a low gradient, sand bed stream impacted by a sediment slug. Measured stream characteristics were cross-sectional shape, thalweg profile, and sediment size distribution. Initially, 13 different measures were assessed on synthetic channel geometries developed to have differing types and scales of variability. Of these, six were determined reasonable metrics for identifying complexity changes in the geometry of real channel. Cross section measures were trapezoidal (which fits a trapezoid to the channel cross section and uses standard errors as a measure of variability), vector dispersion (a measure of angular variance), and sum of the squared height deviations (differences of consecutive bed elevations normalized to channel

width). Measures of thalweg variability used were degree of wiggleness¹, standard deviations of residuals of a fit to the channel profile, and the fractal dimension of the profile. These methods were able to differentiate between disturbed and undisturbed reaches, but did not rank reaches consistently and may have biases toward certain stream shapes or scales of measurement. The results also showed that sediment size distribution may have been more sensitive to disturbance than larger geomorphic changes.

A study of streams in Southern Alaska was also able to distinguish between disturbed vs. non-disturbed catchments using pools per reach, pool depth as function of bankfull depth, and ratio of critical shear of D50 sediment to bankfull shear stress (Wood-Smith & Buffington, 1996).

Most studies utilizing cross-sectional and longitudinal profiles study channel change on relatively low-gradient ($<1\%$), gravel-bed channels with pool-riffle morphology that is generally more sensitive to disturbance (Montgomery & MacDonald, 2002). All of the reaches in Little Creek are steeper than 2%. A majority of studies are associated with investigating response and recovery of a channel from major changes in sediment supply, runoff characteristics, woody debris loading, and riparian vegetation condition. Generally, observed changes reflect those that can be predicted using process-based conceptual models of channel response (Montgomery & Buffington, 1998).

¹The degree of wiggleness measures the deviation, from the mean elevation, of angles between points along a profile.

Chapter 4

Methodology

4.1 Study Design

Six study reaches were established in spring of 2002, each with 10 monumented permanent cross sections and a thalweg longitudinal profile. Three reaches are in the Mainstem of Little Creek, two in the North Fork, and one in the South Fork. An additional reach was established in the upper South Fork, but was never resurveyed due to poor access and lack of total station control. Figure 4.1 shows the location of these study reaches. The study reach locations chosen provided easy access, were representative of overall channel conditions in the vicinity of the reach, and were areas that had exhibited some change in the past, especially in the 1997–1998 winter (B. Dietterick, pers. comm.). These study reaches were also used for other projects that compared LiDAR-derived cross sections to ground surveyed cross sections (Hilburn, 2010; Dietterick et al., 2012) and LiDAR-derived longitudinal profiles to ground-surveyed longitudinal profiles (White, 2010). The

Figure 4.1: Map of study reach locations in Little Creek. Contour interval is 40' (12.2 m). Hillshade is derived from a 1m DEM produced from LiDAR data collected in 2010. Red line is Swanton Pacific Ranch boundary.

Table 4.1: Table showing who collected channel geometry data each year.

Year	Surveyors
2002	Brooke Akers, Brian Kong
2003	Michael Gaedeke, Susan Burgess
2004	Tim Dodson, Sasha Cichowski
2005	Sasha Cichowski, Alicia Moss
2006	Alicia Moss, Ben Jansen
2007	Drew Perkins, David Haas
2008	Colin Nicol, Drew Gaffney, Tom Sanford

study reaches are surveyed annually (Table 4.1 shows who collected the data each year.)

Originally, evenly-spaced cross-sectional profiles and complete longitudinal profiles were planned for the entire length of Little Creek on the Swanton Pacific Ranch property. After discussion with researchers at the USFS Redwood Sciences Lab and USGS Western Ecological Research Center, the cluster design was adopted. Evenly-spaced cross sections separated by large distances make it difficult to reach definitive conclusions about changes (or lack of changes) in any length of stream because there is only one sampling point within a reach and Little Creek is highly variable on small scales. With ten closely-spaced cross sections, there is much higher confidence in the inferences that can be made about changes occurring in a reach. There was an intentional choice made to have higher-resolution data in a few areas instead of low-resolution data spanning the entire channel length.

4.2 Reach Descriptions

Each study reach is approximately 100 meters long and vary in gradient from 0.02 to 0.05. The bed material in each reach ranges from fine sand to boulders — no bedrock is exposed in any of the reaches. Sand content of the bed is generally high (2 mm ranges from D30 to D50) and most of the coarse bed material is highly embedded. Sediment size distribution data was collected by pebble count in Fall 2009.

Reach A

Reach A is located in the lower mainstem of Little Creek approximately 0.4 kilometers upstream of mouth (Figure 4.1). The channel is incised into older floodplain terraces which have two prominent surfaces. The valley bottom has low relief and is approximately 35 meters wide, with steep side slopes (70 percent+). Gradient through reach is approximately 0.018. The bed substrate is primarily cobbles ($D_{84} = 78$ mm) with high sand content ($D_{45} = 2$ mm) and occasional boulders. This was the only reach that did not burn in the 2009 Lockheed Fire.

Reach B

Reach B is located in the middle mainstem of Little Creek approximately 0.8 kilometers from the mouth (Figure 4.1). The reach is downstream of an old 4wd road bridge crossing (bridge removed in 2008). The valley bottom is narrower than in Reach A (18–25 meters). There are terraces 3–4.5 meters above the current channel on both sides. About 1/3 of the reach has a vertical 2–3 meter bank on the south side. Side-slopes are very steep (70 percent to 100 percent+ on south side). Average gradient through reach is 0.024. Substrate is similar to Reach A ($D_{84} = 78$ mm and $D_{30} = 2$ mm).

Reach C

Reach C is located in the upper mainstem of Little Creek 1.8 kilometers from the mouth (Figure 4.1). The reach is located below the former boy scout camp swimming pool (Camp Arroyo, Troop 539). There are two sets of five cross sections above and below a log/boulder jam in the middle of reach. The upper section of

the reach was identified as a depositional area following the 1998 floods. The channel is in an approximately 12 meter wide valley cut into terraces that are 7–9 meters above the channel. Valley width including the terraces is 40–45 meters. Average reach gradient is 0.041. Bed substrate is similar to Reaches A and B ($D_{84} = 88$ mm and $D_{32} = 2$ mm), except the log/boulder jam which has several boulders with diameters greater than 1 meter.

Reach D

Reach D is located in the lower North Fork of Little Creek above the North Fork Flume (Figure 4.1). A landslide occurred in middle of the reach in 1998 and deposited a large quantity of rock, soil, and a clump of redwood trees into the channel. There are five cross sections above and five cross sections below the landslide deposit. This reach is incised into terraces that appear to be formed from reworked debris flow deposits. The surface is generally 2 meters above the current channel. The valley width is 15 meters. The average reach gradient is 0.049. The substrate is slightly coarser than the mainstem reaches and small boulders are more common ($D_{84} = 91$ mm and $D_{33} = 2$ mm). There are several logs embedded in the bed in the lower section of the reach.

Reach E

Reach E is located in the Upper North Fork of Little Creek downstream of property line (Figure 4.1). The bridge on the Little Creek haul road crosses the upstream end of the reach. The bed in this reach has many large boulders (0.5 m to 1+ m diameter) and is primarily a cascade with few developed pools. There is a low

terrace about 1.5 meters above the current channel which appears to be remnants of a debris fan at the mouth of a tributary which enters Little Creek just upstream. The valley width is 8 meters. Average gradient is 0.049 and the substrate is the coarsest of the study reaches ($D_{84} = 120$ mm), however this reach has the highest percentage of bed covered by sand ($D_{56} = 2$ mm).

Reach F

Reach F is located in the lower South Fork of Little Creek located above the South Fork Flume (Figure 4.1). There are several terrace surfaces on the north side of channel (up to 2 meters above the channel) and the south side has a very steep sideslope (100%+). The valley width is 12 meters. There is a bedrock waterfall (2 m high) about 30 meters upstream of the F1 cross section. Average reach gradient is 0.041. The composition of the substrate is similar to the mainstem reaches ($D_{84} = 63$ mm and $D_{37} = 2$ mm).

4.3 Equipment and Procedures

4.3.1 Cross sections

Cross section endpoints were established with 10 mm ($3/8''$) diameter bent steel stakes (rebar) cemented into place on the banks of the stream; the rebar were typically located 2 to 2.5 meters above the thalweg. Additionally, 19 mm ($3/4''$) diameter steel rebar were installed higher up the slopes to mark the cross section alignment if the lower rebar were ever lost due to slope failure. Typically, the cross section lines are spaced 5 meters apart. In Reaches C and D there is a gap

between the lower 5 cross sections and the upper 5 cross sections. In Reach C this gap contains a log/boulder jam and in Reach D this gap is where a debris flow/landslide deposited a mass of sediment and clump of redwood trees into the channel in 1998. One reason for these gaps was to determine if there were differences in changes above and below these features.

Each cross section is surveyed with a cloth tape strung from rebar to rebar and a rod and level. Elevations and distances are measured at the top and bottom of each rebar, bankfull indicators, edge of water, thalweg, and other breaks in slope. The downstream left rebar is set at 0 distance in all cross sections and the top of the left rebar is given an arbitrary elevation of 100 meters. Elevations are measured with a Philadelphia rod and Topcon automatic level. Starting in 2009, a measurement was also made to one of the permanent benchmarks in each reach to establish an elevation reference independent of the rebar endpoints. Detailed surveyor instructions are located in Appendix C.

4.3.2 Longitudinal profiles

Thalweg longitudinal profiles were surveyed in each reach using a total station. 5 cm (2") diameter galvanized steel capped pipes were installed in 2002 to establish permanent benchmarks in each study reach. In 2003, these benchmarks were then tied into a baseline survey performed by Dunbar and Craig Inc. along the Little Creek haul road. These surveyed benchmarks allow comparison of the cross-sectional and longitudinal profile survey data to LiDAR-derived channel data.

Longitudinal profiles were surveyed in 2002–2008 using a Leica TCR307 total station and TDS Survey Pro on the HP48gx calculator as a data collector. In

2009 a Leica TCR407 and Carlson Explorer data collector were used. In 2010, a Leica TCR407 and TDS Recon data collector were used.

The total station is set up on one of the permanent benchmark locations and a backsight is set up at another. Measurements (side shots) are taken in the thalweg of the stream at all breaks in slope for as far upstream and downstream as can be seen from the permanent benchmark locations. Start and stop locations were established in 2010 to help provide year-to-year consistency. Points are identified as riffle or head/middle/tail of a pool. Shots are also taken to the top of each cross section endpoint rebar pin. Detailed longitudinal profile surveying instructions are located in Appendix C.

4.4 Measurement Errors

4.4.1 Sources of error

In order to have a relevant discussion about channel changes seen with the cross-sectional profile and longitudinal profile surveys, it is imperative to have an understanding on the amount of error in the measurements. Ideally, with stable benchmarks and good surveying techniques, measurement error would be equal to the precision of the instrument. However, there are several sources of error present in the both the cross-sectional and longitudinal profile surveys. This section describes the sources of error present in the surveys, ways to quantify those errors, and develops an estimate of the amount of change in the channel that could be attributed to surveying error. There are five primary causes of error in these surveys.

1. Philadelphia rod or prism rod not level.
2. Surveyor judgment in survey point location and associated errors.
3. Instrument errors.
4. Typos and measurement errors (reading rod incorrectly or incorrect total station setup).
5. Rebar end point movement.

Before 2007, a rod level was not used for the cross section surveys. This has the potential to add an unknown, but significant amount of error to the cross-sectional profile survey. Figure 4.2 shows how the surveying rod not being level can cause measurement error. This problem is amplified on steep side slopes and when the tape is far above the stream channel. If distance is being measured 3 meters above the channel just a 2 degrees tilt of the survey rod could cause 10 centimeters error in the distance measurement and several millimeters error in elevation measurement.

Errors resulting from surveyor's judgment generally has two forms. The first is based on the surveyor's choice of survey points. The surveyor is tasked with representing a smooth, continuous surface with a series of points connected by straight lines. Generally, the surveyor chooses points to survey that are located at "breaks in slope" or locations where the slope of the ground surface changes significantly and interpolation between points represents the ground's surface accurately. It is clear from reviewing the cross sections that different surveyors interpreted the surface differently, and that some surveyors put more effort into capturing smaller scale features than others. These features were often boulders or logs and difficult and time consuming to portray accurately in the survey. Some surveyors

Figure 4.2: Diagram showing how lack of a rod level could cause errors in measurement

skipped these features entirely and the instructions for surveyors (Appendix C) now provide guidance on how to consistently record these features. Discrepancies due to surveyor judgment likely have a larger impact on cross-sectional area measurements than thalweg elevation measurements.

The second surveyor-induced source of error is also associated with the survey rod not being level. This error occurs when measurements are taken upstream or downstream of the actual cross section line. Depending on the shape of the channel and the orientation and location of features like rocks, banks, etc., moving the measurement location upstream or downstream just 0.15 m of the cross section line can cause differences that can be misinterpreted to represent change in the channel. In 2003, the cross sections were surveyed using the total station which allows the route taken during the survey to be seen visually (see Figure 4.3). In this

Figure 4.3: Map of points surveyed for cross sections and longitudinal profiles in 2003. Note how for many of the cross sections the points are not taken directly under the cross section line.

survey, some of the measured locations were over 1 meter from the cross section line. Ensuring that measurements are taken directly underneath the cross section line has been emphasized for new surveyors and in the instructions (Appendix C). It is almost impossible to identify rod level errors and differentiate them from what appears to be channel change. Surveyor judgment and rod level errors are likely responsible for much of the “noise” in the cross sections, especially where slopes are steeper. This error is very difficult to quantify.

Instrument errors are likely not a significant source of error relative to other sources. A two-peg test (Harrelson et al., 1994) is performed to check that the automatic level is accurate. Error with the total station is impossible to quantify when a closed traverse is not performed and all of the data collected for the longitudinal profiles is taken with side shots. When setting up the surveying

equipment, extra care is made to ensure that the backsight prism is as level as possible and the total station stays level during the survey. If the distance error on the backsight was more than 1.5 cm in either the horizontal or vertical direction, the equipment was repositioned and instrument heights remeasured. Surveyors are also instructed to frequently check that the total station is level and backsight angle is zero during the survey.

Typographical errors and misreading of instruments is another source of error. The surveying has generally been performed by student interns who do not have extensive surveying experience and are more prone to making errors in data collection. Major typographical errors in data collection, data entry mistakes, or incorrect readings of the Philadelphia rod were usually obvious when the data was reviewed for quality control and could usually be corrected. However, there are many smaller errors that are more difficult or impossible to trace down or identify that cause some amount of error that cannot be quantified.

Since the cross sections were established and surveyed in 2002, the rebar endpoints in several of the cross sections have moved. This has happened for a variety of reasons. Soil creep on steep sideslopes has caused some rebar to rotate or slide and move toward the stream. In other instances, bank erosion has undermined the bank supporting the rebar, causing it to move. In one cross section, a tree fell on the rebar end point and severely bent it. In the past, strings were tied between the rebar to identify the cross section alignment. Trees and branches fell on these strings, pulling the rebar inward towards the stream. When the left bank (looking downstream) rebar moved (which was used as both the position and elevation benchmark) this would cause apparent changes in the cross section and position of the right rebar. Usually this could be corrected by matching up the cross sections on the right rebar. If only the right rebar moved, this did not typically cause

problems in the channel portion of the cross section. In cross sections where both rebar appeared to have moved, the cross sections were aligned so they matched up away from the channel and banks where the assumption of minimal change was reasonable. Correction of the rebar movement is discussed in the quality control section of Chapter 5.

In the summer of 2010, new 16 mm (5/8"), diameter 1.5 m (5') long rebar endpoints were installed outside of existing cross sections where the previous rebar endpoints had moved or showed potential to move. These new rebar are expected to provide a more stable control on both position and elevation than the previous 10 mm (3/8") bent rebar. In addition, since 2009, surveyors have also shot a backsight to one of the capped pipe permanent points to use as an elevation control. The most obvious cases of rebar movement were corrected as much as possible, however, rebar movement does add some unknown amount of error to the analysis.

4.4.2 Estimates of error from literature

Several authors have reported measurement error of stream channel surveys. Lisle (1987) estimates that error in residual pool depth measurements are approximately twice the median particle diameter. This could be interpreted as the error in surveying the true bed elevation when you take into account the irregularities present in the substrate. The median particle (D50) diameters for each reach in 2009 are shown in Table 4.2. Little Creek does not have a normally distributed particle size distribution and has a large amount of sand sized particles along with cobble and boulder sized material. Therefore, the median diameter may underrepresent the size of particles that define the bed surface and that would cause error in

Table 4.2: Median particle diameters for each study reach measured in Fall 2009 and twice the diameter in meters. This is an estimate of vertical error in the measurement of the bed based on Lisle (1987) and could be reasonably interpreted as the error associated with surveys across an irregular substrate.

Reach	D50 (mm)	D84 (mm)	2x D50 Diameter (m)	2x D84 Diameter (m)
A	11	78	0.02	0.16
B	13	48	0.03	0.10
C	11	88	0.02	0.17
D	10	91	0.02	0.18
E	3	120	0.01	0.24
F	9	63	0.02	0.12

bed elevation surveying and the D84¹ may be a more appropriate metric. Hickey (1969) suggested that an error of 0.15 m is associated with comparisons of bed elevation from stream gaging measurements. Madej & Ozaki (1996) reported error in change of measured mean bed elevation of 0.05 m.

4.4.3 Repeated surveys

Thirty randomly selected cross-sectional profiles were re-surveyed by different surveyors in 2002 for quality control purposes (Initial surveys in March and resurveyed in May/June). See Table 4.3 for data. No large storms² occurred between surveys, so it is reasonable to expect bed conditions to be very similar. Comparing surveys from these two dates shows the level of repeatability that is possible in measurements of cross-sectional area or thalweg depth. This integrates most of the possible sources of error and estimates an average level of precision in the determination of the cross section metrics. The repeated surveys also help un-

¹D84 is the particle size most often used to estimate channel roughness in flow resistance equations. It is the particle size one standard deviation above the geometric mean.

²On April 17th, the nearest USGS gage, San Lorenzo River at Big Trees, had a peak flow of 49 m³/s (1720 cfs), a 1.2 year return interval flow using an annual peak series.

Figure 4.4: Figure showing repeated surveys in 2002. Units are in feet.

derstand visually the impact that variations in the surveyor's judgment may have had (see Figure 4.4). It is assumed that no rod level was used in these surveys.

Mean error in the thalweg elevation was 0.021 m with a standard deviation of 0.018 m. Mean error in area calculations was 0.18 m² with a standard deviation of 0.20 m². Eccleston (2008) used the mean error + 1 SD calculated from repeated surveys as an estimate of error in channel bed elevation measurement. Based on these different sources, the estimated error in bed elevation measurement is ± 0.04 m and area measurement is ± 0.4 m². Change less than this could be reasonably attributed to error in surveying.

Table 4.3: Thalweg and cross-sectional area measurements for 30 cross sections repeated in 2002. Cross-sectional areas were calculated under the 100 meter elevation (height of top of left rebar). The means and standard deviations are calculated using the absolute values of the errors.

Cross section	Area (m ²)			Thalweg Depth (m)			
	May/June 2002	March 2002	Difference	May/June 2002	March 2002	Difference	
A1	6.80	6.86	−0.06	98.686	98.677	0.009	
A5	6.87	6.77	0.09	98.442	98.452	−0.009	
A8	24.89	24.34	0.55	97.748	97.744	0.003	
B1	18.56	18.41	0.15	97.519	97.528	−0.009	
B2	20.76	21.02	−0.26	97.366	97.339	0.027	
B3	12.92	13.03	−0.11	97.900	97.894	0.006	
B4	7.78	7.70	0.07	98.458	98.470	−0.012	
B7	13.55	13.48	0.07	97.830	97.781	0.049	
B8	5.18	5.17	0.02	98.668	98.656	0.012	
B10	28.67	28.41	0.26	96.928	96.925	0.003	
C1	15.73	15.75	−0.02	98.305	98.269	0.037	
C3	18.30	18.27	0.03	98.125	98.110	0.015	
C4	16.96	17.17	−0.20	98.077	98.083	−0.006	
C6	18.53	18.54	−0.02	97.912	97.885	0.027	
D2	9.30	8.87	0.43	98.433	98.433	0.000	
D5	14.24	14.01	0.23	97.943	97.903	0.040	
D6	16.57	16.72	−0.15	97.562	97.476	0.085	
D7	11.86	12.79	−0.93	97.647	97.641	0.006	
D9	10.23	10.42	−0.20	98.293	98.260	0.034	
E3	10.66	10.58	0.07	97.760	97.751	0.009	
E7	6.15	6.30	−0.15	98.412	98.378	0.034	
E8	5.74	5.94	−0.20	98.592	98.552	0.040	
E9	14.88	14.95	−0.07	97.555	97.586	−0.030	
E10	8.97	8.76	0.20	98.016	97.991	0.024	
F6	9.89	9.96	−0.07	98.043	98.025	0.018	
F7	8.92	8.93	−0.01	98.296	98.314	−0.018	
G2	9.84	9.73	0.11	97.988	97.982	0.006	
G3	10.54	10.57	−0.04	97.772	97.738	0.034	
G5	12.07	11.66	0.41	97.211	97.168	0.043	
G9	5.47	5.47	0.00	98.101	98.138	−0.037	
Mean Error			0.18	Mean Error			0.021
SD Error			0.20	SD Error			0.018

Chapter 5

Analysis and Results

This chapter details the analysis methods used to evaluate change and also contains a discussion of what was observed in the surveys. Quality control, qualitative analysis and quantitative analysis are also discussed in this chapter. All surveys were measured using U.S. feet and data was converted to metric units for analysis.

5.1 Data Management

The first task undertaken for this project was developing a method to store and view the results from the successive cross sections. The seven years of data analyzed in this thesis encompasses approximately 540 surveyed cross sections (some cross sections were not surveyed every year) and 7,519 distance-elevation pairs. Graphing each cross section in an individual spreadsheet would have been extremely time consuming and cumbersome. A system was developed that utilized a Microsoft AccessTM database to store the data and a single Microsoft

Figure 5.1: Screen shot of cross section viewer spreadsheet.

ExcelTM spreadsheet with custom programming to query the data and graph a chosen cross section with data from each year. The spreadsheet also applies the offsets needed to correct for rebar movement and calculates successive and cumulative changes in thalweg elevation, mean bed elevation, and cross-sectional area under a specified datum (for example, the field-identified bankfull elevation). Figure 5.1 is an example of the cross section viewer ExcelTM spreadsheet. VBA code written for the custom ExcelTM program is located in Appendix E.

5.2 Quality Control

Quality control for the cross section data consisted of two main tasks. The first was looking for and correcting typos and errors in both the field notes and data entered electronically. These were primarily identified by visually reviewing the cross sections and identifying points that did not match previous cross sections or seemed out of place. The most common error was single points that were a foot (0.30 m) lower than the previous cross sections. This error commonly occurs when reading the Philadelphia rod through the automatic level telescope. When looking at number just below a whole foot marker, the number written down was often a foot higher than the actual measurement (for example, 9.87 instead of 8.87). All corrected measurements were noted in the field notes and in the database. Additionally, logs and small rocks not surveyed every year were removed from the cross sections so only the channel bottom was analyzed.

The second type of quality control involved correcting for movement of the endpoint rebar. The cross section viewer software and database (discussed below) were set up so that a given cross section could be offset vertically and horizontally to correct for movement of the rebar. If the right bank rebar was in a stable location, setting the offset so that the right bank rebar became the horizontal and vertical datum corrected the problem. In some cross sections, both the left and right rebar had moved. These were corrected by trying to identify another feature in the cross section that could be used to provide controls on the horizontal and vertical position. Figure 5.2 shows before and after correcting for rebar movement in a cross section.

There is data missing from several survey years. Table 5.1 shows what data is missing and the reason it is missing. In 2003 only cross sections in Reach A and

Figure 5.2: Figure showing before and after rebar correction in the A6 cross section. Cross sections were adjusted to match on the right rebar. View in all cross sections is looking downstream.

Reach B were surveyed due to time and staffing constraints. The 2002 data from Reach E was overwritten by 2004 data during data entry, however, original data from five of these surveys was located in the replicate cross section spreadsheet. The original field data is missing from 2002 (except from Reach A).

5.2.1 Longitudinal profile adjustment

The longitudinal profiles in each reach did not have specific start locations and also followed different paths up the stream channel. This meant that the profile between two identical plan view locations could have a different length. To help make comparisons between annual surveys, the longitudinal profiles were stretched and translated to match the distances where the profile crossed the cross sections in 2002. This allows much better comparison of the annual profiles because features (pools, steps, etc.) appear in roughly the same location each year.

Table 5.1: Table showing missing survey data

Profile	Year	Notes
Reaches C, D, E, and F	2003	Not surveyed due to staffing and time constraints (lower half of longitudinal profile in Reach C was surveyed)
A4	2002, 2003	Right end point and cross section alignment changed in 2004
C8	2005	Yellow jacket nest near section
C9	2005	Yellow jacket nest near section
C10	2005, 2007	Yellow jacket nest near section, right bank endpoint had been buried
D4	2002	Spreadsheet says “no stakes”
E1, E2, E4, E5, E6	2002	Original data overwritten during 2004 data entry, field data could not be located

The first step in this procedure was identifying the points in each longitudinal profile where the cross section lines crossed the longitudinal profile. A spreadsheet using custom functions and lookup tables was developed that used the coordinates from the longitudinal profile and the cross section rebar to determine the three-dimensional coordinates of the intersection point. This point was then added to the longitudinal profile. The distance where the cross section crossed the 2002 longitudinal profile was set as the standard distance. The longitudinal profile from each subsequent year was then translated, stretched, or compressed so that the distances at the cross section intersections matched the 2002 survey. Sections below Cross Section 10 and above Cross Section 1 were only translated. All other sections between cross sections were linearly re-interpolated so the start and end distances matched the 2002 survey. Figure 5.3 shows the lower section of Reach D before and after adjustment of the longitudinal profiles. The unadjusted data was translated to match at a point in the upper part of the reach which caused

poor alignment in the lower reach. The adjusted data is much easier to interpret and it is more obvious that this reach has been very stable over the study period.

Figure 5.3: Reach D longitudinal profile before and after adjustment.

5.3 Qualitative Analysis

When evaluated visually, most of the reaches do not appear show much change. There are a few cross sections, especially in Reach C, which had some substantial changes. However, the observed changes are relatively minor compared to the

magnitude of changes discussed in much of the literature (Madej & Ozaki, 1996; Leopold et al., 2005; Nolan & Marron, 1985). All cross sections are contained in Appendix A and all longitudinal profiles are contained in Appendix B. All cross sections are shown looking downstream.

5.3.1 Reach A

Overall, there was little change in Reach A during the study period. Changes in the cross sections can primarily be traced to influence of forced channel features (boulders) or unstable/eroding banks. The A6 left bank has eroded and even undercut the left rebar endpoint. Except in Cross Section A10, there was not much change in the active channel. The A10 cross section is through a pool created by flow around several boulders; the arrangement of this pool appears to have changed several times during the study period due to flow routing around these boulders. Some of this change may also be due to slight deviations in the measurement location upstream or downstream of the cross section line (as discussed in 4.4.1). Overall, bed elevations and channel dimensions have remained about the same in this reach.

Figure 5.4: Cross section A6

Figure 5.5: Cross section A10

5.3.2 Reach B

Similar to Reach A, there were no major changes in the Reach B cross sections. Cross sections B1, B2 and B3 show minimal change occurred in the channel. The B4 cross section had some change during the study period. The top of a bay laurel tree had fallen across the channel downstream and began to collect debris. This created a dynamic grade control that appears to have changed slightly each year as the debris shifted, accumulated, or flushed away. The B8 cross section had a tree fall across it and the tree landed on the right bank rebar. This made surveying this cross section difficult and explains the amount of variability in the right bank. Cross sections B9 and B10 have a very steep left bank, and it appears that the toe of this bank was eroded and scoured in the 2006 and 2007 cross sections, with some filling occurring in 2008.

Figure 5.6: Cross section B4. A tree fell just downstream of this cross section.

Figure 5.7: Cross section B8. A tree fell on rebar and trunk is perpendicular to cross section. The left bank also has been eroding slightly.

Figure 5.8: Cross section B10

5.3.3 Reach C

Reach C was the most dynamic reach during the study period. This reach has two groups of five cross sections separated by a log/boulder jam. The upstream portion is an aggradational area where sediment was stored behind the log/boulder jam. As the arrangement of wood in the logjam has been modified by high streamflows and/or decomposition, the stream has been downcutting into this stored sediment. This change was most drastic in between the 2005 and 2006 surveys. Annual precipitation that winter was well above average and there were several high flow events. The change is most evident in the C4 and C5 cross sections and in the longitudinal profile. There has also been change in several of the downstream cross sections as well. The channel thalweg has migrated and/or downcut in cross sections C7, C8 and C9. Causes for this are not clear, but changes in the flow patterns out of the logjam area may be important. Reach C was not surveyed in 2003.

Figure 5.10: Cross section C4

Figure 5.9: Upper Reach C, Fall 2009 after the Lockheed Fire. View is looking downstream near cross section C3.

Figure 5.11: Cross section C5

Figure 5.12: Cross section C7

Figure 5.13: Cross section C8

Figure 5.14: Little Creek upper Reach C longitudinal profile. This shows the downcutting behind the log step (at approximately 55 meters) that occurred between the 2005 and 2006 surveys.

5.3.4 Reach D

Reach D was the most stable reach during the study period. This reach also has two groups of cross sections which are separated by a clump of redwood rootwads and other debris deposited by a landslide that occurred in 1998. Unlike Reach C, this deposit appears to be relatively stable, and there has been little change in the cross sections above this feature. Several of the rebar in the lower section were placed on steep, unstable banks and have moved during the study period. Reach D was not surveyed in 2003.

Figure 5.15: Cross section D5.

Figure 5.16: Cross section D9. Notice the banks have eroded slightly and the rebar endpoints have moved, but the channel has been stable.

Figure 5.17: Reach D longitudinal profile.

Figure 5.18: Reach E, Fall 2009 after the Lockheed Fire. View is looking upstream near cross section E8

5.3.5 Reach E

Reach E has also been relatively stable during the study period. This reach is bouldery and has a relatively steep gradient (5 percent). Much of the survey variation in this reach is likely due to the high local variability (measuring slightly upstream/downstream of section can cause large changes in elevation) and inconsistencies in how the surveyors dealt with surveying the large boulders. One section that is hard to interpret is E1, where there is a significant undercut bank. Previous survey methods were not able to characterize the undercut bank. The instructions for surveyors (Appendix C) include procedures for dealing with undercut banks in the cross section utilizing a hand level and additional measuring rod. The E reach was not surveyed in 2003 and is missing data from many of the cross sections in 2002.

Figure 5.19: Cross section E1. Right bank is undercut. Surveyor instructions (Appendix C) provide instructions on how to survey undercut banks.

Figure 5.20: Cross section E4. Much of the variability in the cross section is likely due to inconsistencies in how the large rocks were surveyed.

5.3.6 Reach F

Reach F aggraded during the study period. Cross sections F2, F3, F4, F5, F6 and F10 all show this aggradational trend. The 2006 and 2008 surveys have the strongest aggradation signal. In contrast to the changes in upper Reach C, there is no obvious cause for the trend in Reach F. A boulder may have been deposited in the F5 cross section in 2007, or it was not surveyed in previous years. Reach F was not surveyed in 2003.

Figure 5.21: Cross section F4.

Figure 5.22: Cross section F5. A boulder was deposited on the right bank in 2007 (or the boulder was not surveyed in previous years).

5.4 Quantitative Analysis

5.4.1 Cross sections

There are three primary numerical properties of the cross sections that were calculated and compared: thalweg elevation, cross-sectional area, and mean bankfull channel elevation.

Thalweg elevation

Thalweg elevation is the elevation of the deepest part of the channel along the cross-sectional profile. This is a measure of vertical change in the channel elevation and is an indication of scour or fill of the channel. Thalweg elevation can change with no corresponding change in mean elevation or loss or addition of material from a reach. However, thalweg elevation changes typically correspond with fill or scour of the channel. Thalweg elevations can also be calculated by interpolating the elevation of the longitudinal profile where it crosses through the plane of the cross section. Figure 5.23 compares elevation changes calculated from each method in Reach A. The magnitude of change measured at individual cross sections is not always consistent, but overall trends are similar.

Figure 5.23: Individual value plot comparing annual thalweg elevation changes calculated from cross sections (X) to annual thalweg elevations changes calculated from the longitudinal profile (L). The number indicates the cross section. Negative changes indicate channel scour, and positive changes indicate channel filling.

The most useful way of viewing the cross section data utilizes boxplots that show change in all cross sections in a reach. Both annual change and cumulative change since the first survey are calculated and shown in the boxplots. These boxplots are a way of integrating all of the observations made in a reach. The boxplot shows the maximum, minimum, interquartile range, median, and mean of the changes observed in each reach. The boxplots confirm some patterns observed in the qualitative analysis. The degradational trend in Reach C, and the aggradational trend in Reach F are both apparent in the annual and cumulative change boxplots. Another pattern that emerges is the overall variability of change was greater in some years than others.

Thalweg elevation changes are shown in Figure 5.24. Reach A appears to have aggraded slightly during 2002–2004, degraded during 2005–2006, and remained relatively stable during 2007–2008. The changes in Reach A have been relatively minor, with only a few cross sections changing more than 0.15 meters during the study period, and mean changes less than 0.06 meters. Reach B shows a slight aggradational trend during the study period; overall change was minor with few cross sections changing more than 0.05 meters and reach mean changes less than 0.03 meters. Reach C had the most pronounced changes in thalweg elevation. The degradational trend after 2006 noted in the qualitative analysis is also evident here. By 2008, reach mean thalweg elevation dropped about 0.12 meters, with some cross sections approaching 0.30 meters of lowering. Both Reach D and Reach E were very stable during the study period with no elevation changes greater than 0.15 meters and reach mean changes less than 0.03 meters. Reach F shows an aggradation trend between 2005 and 2008. Mean thalweg elevation increased each year, and by 2008 all Reach F cross sections had aggraded. The mean thalweg elevation gain was almost 0.15 meters and thalweg elevations in three cross sections

Figure 5.24: Boxplot shows thalweg elevation change grouped by year and by reach. Cumulative change is change since the first survey, annual change is change since the previous survey (typically annually, but not every cross section was surveyed every year). The boxplot shows the median (middle bar), interquartile ranges, and the mean (small x) for the group of 10 cross sections in each reach for each year. Scour is a negative change and fill is a positive change.

increased over 0.24 meters.

Cross-sectional area

Cross-sectional area is another commonly used metric to evaluate changes in cross sections. Changes in cross-sectional area can be multiplied by a representative

length to determine sediment volume changes in a channel reach. One consideration when using area as a metric is how the location of the the top of the channel cross section is defined. Theoretically, the cross section could extend all the way to the ridgeline. The choice of elevation depends on the intended interpretations made from the data. If the only concern is net change of area, any area that encompasses the entire channel where change occurred would be appropriate.

Hilburn (2010) used areas under the 100 meter elevation (the arbitrary elevation given to the top of the left bank rebar) to compare of areas of ground-surveyed and LiDAR-derived cross sections in Little Creek. Using the rebar as the elevation datum worked well for his analysis, however, it also imparts several challenges when using area as a change-detection metric. One issue with using the rebar as the elevation datum for change comparisons is that the surveyed channel is typically much larger than the active channel that experiences water flow, even at flood level. This means that changes in the active channel can be “drowned out” by surveying error, rebar movement, and other noise in the larger cross section. Also, when comparing different cross sections, it is easier to make comparisons of relative change if the cross-sectional areas are relatively similar. Because of the high variability in shape of banks and the constraints of installing and accessing the endpoints on steep slopes, areas under the rebar datum vary greatly, even within adjacent cross sections in the same reach.

For this analysis bankfull areas are used instead. One challenge with using bankfull elevation to define an area measurement is identifying the bankfull elevation, especially in a steep banked, incising channel like Little Creek where bankfull indicators are typically vague (Roper et al., 2008; Rosgen & Silvey, 1996). Bankfull areas were calculated using the bankfull elevation identified in the 2002 survey. Surveying in that year was performed by a graduate student (Brooke Akers) and

there is an unjustified assumption that her assessment is the most reliable and consistent. Some elevations had to be adjusted slightly (<0.1 m) due to the relatively simple area calculation algorithm, which could not handle points between banks that are above the bankfull channel level. The field-identified bankfull elevations were also adjusted when a visual check of the cross section indicated that they were too low or too high. Even if the field identified bankfull stage is inaccurate, it provides an elevation datum that allows better comparisons of relative changes in area, because the range of bankfull areas is much smaller than the range of areas under the elevation of the rebar. For example, the range of areas in Reach D calculated under the rebar elevation varies from approximately 9 m^2 to 36 m^2 , and the calculated areas under the bankfull elevation varies from 0.7 m^2 to 2.6 m^2 . The smaller difference in bankfull areas makes it easier to compare changes between cross sections because the changes will be more proportional. In most cross sections, using the bankfull area removed parts of the cross sections where the banks are very steep and surveying errors are higher, and also helped minimize area changes due to rebar movement. It is also important to note that the bankfull area analysis is more prone to errors resulting from discrepancies in how surveyors interpreted complicated bed features (e.g. boulders) than the thalweg elevation analysis because the surveyor typically can consistently identify the lowest point of the cross section.

The cross-sectional area metric provides a quantification of the amount of material added or removed from the channel. However, there are also limitations in interpreting the change in area of the channel cross section. Area changes could result from a change in width or depth in the channel. Figure 5.25 shows the boxplot of observed changes in bankfull area.

Trends in bankfull area change are similar to those in seen in thalweg elevation.

Figure 5.25: Boxplot shows bankfull area change grouped by year and by reach. Cumulative change is change since the first survey, annual change is change since the previous survey (typically annually, but not every cross section was surveyed every year). The boxplot shows the median (middle bar), interquartile ranges, and the mean (small x) for the group of 10 cross sections in each reach for each year. Note that scour of the channel is a positive change and fill of the channel is a negative change (opposite direction of mean bed elevation and thalweg elevation change graphs).

There was a loss of material from Reach C (scour) and a gain of material in Reach F (fill). As noted in the qualitative analysis, there was significant scour in A10, but overall change in Reach A was minimal with mean decrease of cross-sectional area of 0.2-0.3 m². The range of change in this reach was generally larger than the range of changes observed in other reaches, but this reach has the largest drainage area and cross-sectional area. When considered as a percentage of bankfull area, the magnitude of change in Reach A is similar to the magnitude of change in other reaches. No reach-wide trends are obvious in Reaches B, D or E and mean changes in cross-sectional area are small (<0.2 m²).

Mean bankfull channel bed elevation

A third metric, mean bankfull channel bed elevation, was also used to compare the annual surveys. This is a commonly used metric in many studies that utilize cross section surveys to study channel changes. Mean elevation was calculated using the following equation:

$$\text{mean bankfull bed elevation} = \text{bankfull elevation} - \frac{\text{bankfull area}}{\text{bankfull width}}$$

The mean elevation has similar interpretation limitations as cross-sectional area, but is less sensitive to changes in channel width.

The mean bed elevation trends are similar to thalweg elevation and bankfull area trends. There are slight variations in the relative magnitude of change, but overall patterns are very similar. Only a few cross sections had a mean bankfull elevation change of over 0.15 m during the study period, and except for Reach C and Reach F, reachwide mean changes were less than 0.06 m. This is only slightly

Figure 5.26: Boxplot shows mean bed elevation change grouped by year and by reach. Cumulative change is change since the first survey, annual change is change since the previous survey (typically annually, but not every cross section was surveyed every year). The boxplot shows the median (middle bar), interquartile ranges, and the mean (small x) for the group of 10 cross sections in each reach for each year. Negative change is scour of the channel and positive change is filling of the channel.

larger than error identified in Section 4.4 (Measurement Errors) that is inherent to surveying the bed elevation.

Statistical analysis

It is difficult to utilize more rigorous statistical tests than basic statistics to compare changes observed in cross sections. The study design is primarily observational and the study was not designed to test factors influencing channel changes or determine if environmental variables and management influences could be used to predict channel characteristics. Chapter 4.4 identifies an average level of precision in the measurement of channel features (cross-sectional area and thalweg elevation). It can be assumed that changes in these metrics greater than the identified error represent real change in the channel, but this cannot be identified with a statistical test.

One potential statistical method to compare two cross sections is sampling the cross section at a fixed interval and then using the measurements from the same location in different years to perform a paired T-test comparing mean changes between the two surveys. Because cross sections sampled at surveyor determined breaks in slope and not at an even interval, the values needed for the analysis would need to be interpolated, introducing some error. There is also some question of what a statistically significant change would mean as detected by this method. A small change in either direction (gain or loss of elevation) by a majority of points would be interpreted as “significant” even though the mean bed elevation may have only changed one or two centimeters, because the standard deviation of the changes is small compared to the mean change. In a cross section where a portion of the channel gains elevation and a portion loses elevation, the change may

be considered “insignificant” even if the mean elevation change is much greater than the earlier example. The statistically significant changes detected by this method have little relationship to channel changes that may be morphologically or ecologically significant. Because of its very limited utility, this analysis was not performed.

5.4.2 Longitudinal profiles

Channel gradient, variability of the thalweg, as well as pool spacing and depth are all metrics that can be calculated from channel longitudinal profile data. Quantity of pool habitat and variability of the bed surface have been linked with habitat quality for a variety of aquatic organisms (Mossop & Bradford, 2006). Plan view characteristics like sinuosity and meander pattern can also be determined from longitudinal profile survey data collected with a total station. Change in these metrics is unlikely in a mountainous headwater stream like Little Creek, which has a steep gradient and narrow valley. Changes in plan form shape and meander pattern have not been observed in Little Creek and plan view characteristics were not analyzed for this project.

Reach gradient

Channel gradient is most often calculated by fitting a linear best fit line through the points of the profile. Gradients in Little Creek are locally highly variable, and in the measured profiles the gradient of the fit line often depends on how far above and below the cross sections the reach was surveyed. To compare annual surveys, reach gradients were only calculated for the section of the reach where

longitudinal profile data existed for all years. Gradients were calculated using the General Linear Model routine in Minitab using reach and year as categorical variables. The calculated gradients are more strongly influenced by the upper and lower ends of the profile, and changes in those parts of the reach would most likely change the gradient. There was little variation in reach gradient during the study period. Table 5.2 shows the reach gradients for each year.

Thalweg profile variability

Vertical variability in thalweg profile has been identified as a geomorphic characteristic that is reduced by inputs of sediment or other stream disturbance (e.g. large woody debris removal) (Madej, 2001; Lisle, 1995; Bartley & Rutherford, 2005). To calculate profile variability, a least squares best fit line is applied to the profile data and the residuals calculated. Changes in the standard deviation of the residuals are interpreted as a change in variability of the thalweg profile. To weight each section of stream equally, the thalweg profile needs to be reinterpolated at a constant interval. Custom formulas and an ExcelTM spreadsheet were used to reinterpolate each longitudinal profile at 0.305 m (1 ft) intervals. This interval was chosen because it could accurately represent small-scale features like steps and would also likely sample the deepest portion of pools.

Thalweg profile variability was analyzed using a subset of the longitudinal profile data that included only the portion of the reach that had been surveyed in all years. A function was fit to each profile using the General Linear Model routine in Minitab and residuals were calculated and stored. For some profiles a linear fit did not match the larger scale trend of the profile and the residual plots showed large scale curvature. For these profiles a second and/or third order

Table 5.2: Table of reach gradients calculated in each reach where longitudinal data from all years exists. Slopes were calculated with a least squares linear regression fit to the profile.

Reach	Year	Intercept (elevation)	Gradient (slope)
A	2002	84.73	0.0171
	2003	84.74	0.0179
	2004	85.14	0.0168
	2005	85.04	0.0168
	2006	84.33	0.0190
	2007	84.35	0.0196
	2008	84.62	0.0184
B	2002	120.28	0.0281
	2003	120.56	0.0255
	2004	120.50	0.0268
	2005	120.85	0.0244
	2006	120.61	0.0259
	2007	120.76	0.0257
	2008	120.64	0.0261
C	2002	290.28	0.0467
	2004	290.17	0.0475
	2005	290.04	0.0484
	2006	289.90	0.0470
	2007	290.06	0.0466
	2008	289.76	0.0464
D	2002	343.28	0.0496
	2004	342.30	0.0492
	2005	342.31	0.0495
	2006	342.33	0.0492
	2007	342.50	0.0487
	2008	342.30	0.0489
E	2002	617.52	0.0483
	2004	617.64	0.0476
	2005	617.59	0.0480
	2006	617.32	0.0495
	2007	617.76	0.0467
	2008	617.30	0.0491
F	2002	344.46	0.0414
	2004	344.28	0.0422
	2005	344.41	0.0415
	2006	344.69	0.0402
	2007	344.43	0.0424
	2008	344.45	0.0424

polynomial term was added to the model so only smaller-scale variability (i.e. filling of pools) would influence standard deviation calculations. Table 5.3 shows standard deviations of the residual calculated for each longitudinal profile. Figure 5.27 shows these values plotted over time.

Table 5.3: Standard deviation of longitudinal profile residuals calculated from a best fit line. Units are in meters. Type of best fit line is indicated. Higher standard deviation of residuals indicates higher thalweg variability. n is the number of observations from each reach and is equivalent to the reach length in feet that was modeled.

Year	Reach (n)					
	A (202)	B (145)	C (248)	D (309)	E (164)	F (174)
2002	0.099	0.054	0.242	0.140	0.106	0.079
2003	0.075	0.032	-	-	-	-
2004	0.106	0.032	0.181	0.150	0.095	0.064
2005	0.101	0.056	0.164	0.146	0.101	0.074
2006	0.100	0.058	0.149	0.145	0.092	0.088
2007	0.100	0.047	0.128	0.145	0.111	0.096
2008	0.092	0.060	0.150	0.139	0.098	0.119
Fit order	1st	2nd	3rd	3rd	1st	3rd

Reaches C and D have the largest overall variability. Both of these reaches contain a boulder/debris jam and this feature is likely responsible for some of the variability because there is a large change in bed elevation over a relatively short length of stream. Reach B has the lowest variability. This reach has few pools and mostly has a plane-bed morphology. Two obvious trends over time are the decrease in variability in Reach C and the increase in variability in Reach F. These were also the reaches that had the largest amount of fill and scour. The decrease in variability in Reach C is likely due to the loss of the step and deep pool and subsequent scour upstream between 2005 and 2006. Reach F appears to have developed more pool features over the study period (discussed below). Standard deviations in the other reaches have some annual variations but do not show any trends over the study period.

Figure 5.27: Standard deviations of longitudinal profile residuals. Two noticeable changes are the decrease in variability in Reach C and the increase in Reach F.

Residual pool depths

Residual pool depth is the difference in elevation between the tail of a pool and the deepest point, or the depth of the pool at zero flow (Lisle, 1987). It is a discharge-independent method of measuring pool depth and allows meaningful comparisons of pool depth from year to year. Deep pools are an important rearing habitat component for salmonids. Moreover, changes in pool depths could be an indicator of changes sediment inputs to the stream system (Wood-Smith & Buffington, 1996). Figure 5.28 shows residual pool depths for pools in each reach. It is sometimes challenging to correlate pools in longitudinal profiles measured in different years. Even though they are normalized to the cross sections, survey distances vary at the deepest point of the pool depending on pool shape and how the surveyor interpreted the longitudinal profile. Pools in each reach were assigned a unique identifier manually using the distance of the tail of the pool and a visual analysis of the longitudinal profile for identification. The pools are numbered sequentially upstream. Only pools deeper than 0.12 m were included in this analysis. If a pool is not included in a particular year the residual depth was less than 0.12 m in that portion of the profile. Pools that were not included in all longitudinal profiles are noted with an asterisk(*). Note vertical scale varies between graphs.

Reach A has several pools that persisted the entire study period (A2 and A9). The A2 pool started relatively shallow in 2002 and 2003 and became quite deep by 2008. The A3 pool, approximately 7.5 m upstream, lost depth during this period. All pools except A2 lost depth in 2004.

Reach B has very few pools deeper than 0.12 m, and none that persisted throughout the study period. This is consistent with the low variability in the thalweg residual analysis and the observed morphology of the reach.

Figure 5.28: Residual pool depths in each study reach. Each pool is given a unique identifier to track year to year change. Lines connect pools that persisted throughout much of the study period. If a pool is absent its residual depth was less than 0.12 m during that survey. Pools marked with an asterisk are located outside of the region covered by all surveys and that portion of the channel may not have been surveyed every year.

Reach C has several deep pools. The C5 pool in 2002 was the deepest surveyed during the study period. This pool lost almost 0.60 m of residual depth between the 2002 and 2004 surveys (approximately a 75% reduction). The C9 pool had the opposite response during this time, gaining almost 0.45 m of depth. These two pools are at either end of the log/boulder jam and during the study period the residual depths of these pools seem to be inversely related. Generally, pool volumes were quite variable during the study period, and maximum depths appear to decrease over time. This may explain the decrease in thalweg variability seen in the residual analysis.

Reach D has the highest number of pools among the study reaches, however maximum pool depths are typically lower than Reach C and Reach A. Besides the D6 pool, which had a large increase in residual depth in 2008, pool depths were stable.

Reach E has only two pools with depths greater than 0.15 m. They persisted throughout the study period and their depths follow similar patterns. Both pools depth decreased in 2006 and increased in 2008.

Reach F also has few pools deeper than 0.12 m. The F5 pool persisted for the whole study period (except in 2004 when no pools were deeper than 0.12 m) and was deeper than 0.31 m in 2007 and 2008. Several other pools also developed between 2005 and 2008. This corresponds to the increase in thalweg variability seen in the residual analysis.

Interpreting the results of this analysis is rather difficult. Residual pool depths appear to have a large amount of variability within a reach and from year-to-year, but no clear trends are apparent. However, residual pool depths are sensitive to changes in sediment load (Montgomery & MacDonald, 2002) and if major changes

in sediment dynamics were occurring, one could reasonably expect to identify them using this analysis.

Residual depth statistics

As in the analysis of residuals of a function fit to a longitudinal profile, it is possible to evaluate statistical variation in the residual depths along the profile. The residual depths were calculated from the reinterpolated longitudinal profile. Areas outside pools have a residual depth of zero.

Mean pool depth can be influenced by the depth of pools and the length of the channel composed of pools. If the median pool depth is greater than zero, at least half of the channel is within a pool. One-quarter of the channel has a residual depth deeper than the third quartile. Descriptive statistics for residual depths are shown in Table 5.4 and graphs of the mean, standard deviation, and third quartile are shown in Figures 5.29, 5.30, and 5.31.

There are some apparent patterns in the reach-wide residual depth characteristics, but similar to the residual depths of individual pools, there is a high amount of variability. There is a decrease in both residual depth (mean and Q3) and variability (standard deviation) in most reaches between 2002 and 2004. The A reach longitudinal profile has an anomaly (a large gap between two surveyed points that effectively creates a very long pool that may not have actually existed), which would explain the very high mean and Q3 depths in 2002. It is important to note that surveyor interpretation of the channel is a likely contributor to some of the variability in these graphs.

Another way of visualizing the residual depth distribution in a reach is a cumulative frequency graph (Lisle, 1986). This graph shows the percentage of each

Table 5.4: Table of reach wide residual pool depth statistics showing mean, standard deviation, median, and third quartile. Units are in meters.

Reach	Year	N	Mean	StDev	Median	Q3
A	2002	202	0.067	0.082	0.035	0.127
	2003	202	0.038	0.058	0.003	0.061
	2004	202	0.034	0.049	0.009	0.057
	2005	202	0.037	0.054	0.009	0.055
	2006	202	0.053	0.080	0.013	0.080
	2007	202	0.048	0.070	0.012	0.066
	2008	202	0.053	0.093	0.020	0.051
B	2002	145	0.019	0.035	0.000	0.028
	2003	145	0.007	0.019	0.000	0.000
	2004	145	0.005	0.011	0.000	0.000
	2005	145	0.020	0.029	0.000	0.034
	2006	145	0.012	0.026	0.000	0.013
	2007	145	0.011	0.026	0.000	0.009
	2008	145	0.008	0.019	0.000	0.004
C	2002	248	0.055	0.127	0.000	0.040
	2003	148	0.034	0.081	0.000	0.018
	2004	248	0.042	0.091	0.000	0.042
	2005	248	0.040	0.082	0.000	0.043
	2006	248	0.041	0.081	0.000	0.045
	2007	248	0.028	0.067	0.000	0.018
	2008	248	0.038	0.086	0.000	0.025
D	2002	309	0.027	0.058	0.000	0.029
	2004	309	0.020	0.041	0.000	0.014
	2005	309	0.020	0.042	0.000	0.013
	2006	309	0.021	0.039	0.000	0.029
	2007	309	0.025	0.050	0.000	0.022
	2008	309	0.027	0.054	0.000	0.025
E	2002	164	0.023	0.053	0.000	0.018
	2004	164	0.021	0.053	0.000	0.007
	2005	164	0.019	0.056	0.000	0.003
	2006	164	0.018	0.043	0.000	0.005
	2007	164	0.013	0.040	0.000	0.000
	2008	164	0.021	0.055	0.000	0.006
F	2002	174	0.017	0.039	0.000	0.010
	2004	174	0.006	0.019	0.000	0.000
	2005	174	0.012	0.029	0.000	0.007
	2006	174	0.018	0.037	0.000	0.016
	2007	174	0.021	0.053	0.000	0.003
	2008	174	0.019	0.050	0.000	0.020

Figure 5.29: Graph showing mean residual depths for each year.

Figure 5.30: Graph showing standing deviations of residual depths from each year.

Figure 5.31: Graph showing third quartile of residual depths from each year.

longitudinal profile with a residual depth lower than the value of the x-axis. It is a way of visualizing the distribution of pools in the reach. The y-axis intercept is the percentage of the reach that is not in a pool (percent with residual depth = 0) and the x-axis intercept (at the top) is the depth of the deepest pool. A shift of a line downward and to the right indicates an increase in quantity and depth of pools in the reach. A shift upward and to the left indicates a loss of pool quantity and depth. Figure 5.32 shows the cumulative frequency graphs for all reaches. There are some notable changes evident in these graphs. In 2008, Reach A had an increase in the depth of the deepest 5 percent of the channel. In Reach C there is a contrast of both quantity and maximum depth of pools between the 2002 and 2007 surveys. Pools are much deeper in 2002 and a larger portion of the reach is in relatively deep pools compared to 2007.

Cumulative distribution graphs of residual depth

Figure 5.32: Cumulative frequency graph of residual depths in all reaches. The graph shows the percentage of the reach with residual depths less than a certain value. The y-intercept is the percentage of the reach not in pools, and the x-intercept (at the top of the graph) is the depth of the deepest pool.

Chapter 6

Discussion

This chapter interprets the data collected from the study reaches. Many hydrologists and geomorphologists have used surveys similar to those used in this thesis to understand fluvial processes as well as impacts and recovery of stream morphology after large disturbances. Changes in stream geometry can result from a wide variety of factors including: the intersection between hillslope and fluvial processes; local geology, vegetation, and land use; and stochastic variation in the hydrologic regime and sediment inputs. This chapter assesses the observations from Little Creek during the study period in the context of these factors.

6.1 Limitations of Data

There are several aspects of the type and scope of data collected, as well as the study design, that are important to consider when making interpretations of channel changes in Little Creek.

6.1.1 Spatial data limitations

The primary limitation of the survey data is the spatial extent of the surveys. The reaches covered by cross sections represent approximately 10 percent of the Mainstem, 5 percent of the North Fork and 3 percent of the South Fork. Most of the stream is not being surveyed and may be behaving in a completely different way than the study reaches. However, this sacrifice is consciously made to increase the resolution of data within the study reaches. Another problem with the spatial scale is at the reach level. The stream system is a highly dynamic three-dimensional environment and there are limitations to measuring it using two-dimensional methods. Cross sections only describe a very small length of stream, especially in a highly-variable channel like Little Creek. There are several cases where two adjacent cross sections behaved quite differently in a particular year or over the course of the study period. Likewise, the longitudinal profile also has limitations in interpretation and might not provide a complete picture of morphological changes in a reach.

A three-dimensional digital terrain model (DTM) is a way to collect topographic data about the reach that can eliminate some of the limitations from traditional cross section and longitudinal profile data collection (Keim et al., 1999). DTMs are typically created using a total-station theodolite, however stereo photography and LiDAR (both aerial and ground-based) can be used to create DTMs. DTMs can become the basis for many different types of analysis and cover the entire channel. This eliminates problems that stem from the limited extent that cross sections or longitudinal profiles represent. Creating and using DTMs to study channel morphology also has several drawbacks. Equipment is more expensive and data collection is very time consuming, especially in heavy understory

vegetation. Keim et al. (1999) reported up to six days of surveying necessary for a 300 m study reach — typical surveying time for a longitudinal profile and 10 cross sections in Little Creek is 1.5 days. Another challenge is the spatial scale of data collected. Surveys described in Keim et al. (1999) did not attempt to detect change less than 0.15 m. This is greater than the magnitude of almost all of the bed elevation changes observed in Little Creek over the study period. Collecting data at a spatial resolution that could detect these changes is possible, but it would require significantly more work to collect.

One advantage of creating a DTM with a theodolite is that the spatial resolution can be varied so more data is collected where it is more useful. More detailed data can be collected in the active channel and detailed cross sections can be surveyed along with general topographic data. Ground-based LiDAR has been used to create a DTM in the upper portion of Reach C in Little Creek. This equipment can create a DTM with a very high spatial resolution (<1 cm grid). However, this method still has several disadvantages: (1) the equipment is extremely expensive (the unit used in Little Creek cost over \$300,000) and difficult to transport; (2) vegetation typically hides the true ground surface outside of the active channel; and (3) several set up locations are needed, especially when vegetation or topography shadows portions of the study reach.

6.1.2 Data limitations due to sampling interval

Except in 2003, all of the reaches have been surveyed annually. This temporal scale can detect changes that occur in the stream each winter period, however, nothing is known about changes that happen between storm events in a given year. Especially in a year with several large storms, it is unclear what combination of storm events

caused the observed changes. Conducting surveys during the winter between storm events would provide this information, but is highly unlikely due to other winter workloads related to the water quality monitoring and the considerable time and effort it takes to survey all of the reaches. There likely are changes occurring storm to storm that on an annual basis appear like little or no change. For example, a pool may aggrade with fine sediment during the earlier storms where the assumed sediment supply/flow ratio is higher, and then degrade towards the end of the season when “clean” water originating from base flow is higher, providing more available energy for transport. Anecdotally, this sequence was observed in the plunge pool where stage is measured at the Upper North Fork flume in the 2007–2008 winter. After the Jan 25th storm, which had high flows and sediment loads, the pool was filled with fine sediment (fine gravel and finer). A week later on Feb 2nd, a moderate storm (in terms of rainfall) occurred, but streamflows were still high because of high antecedent baseflow and soil moisture condition. This storm had lower sediment loads and transported most of the sediment deposited the earlier storm out of the pool. A similar situation also occurred in the 2010–2011 winter.

On the other hand, with the relatively small changes seen since the start of this project, one could reasonably argue that the surveys could occur less often. This argument has merit, but there are several problems associated with less frequent surveys. It becomes harder to decide when to survey and determine what would trigger a survey year. Surveys might only be performed after a flow of a certain return interval occurred, however, it then becomes unclear when and what events caused the observed changes to occur. Annual surveys performed in summer occur on the same time scale as the major changes in the flow regime of Little Creek (high flow in winter, low flow in summer). There is a general understanding of

what storm and flow characteristics may have been responsible for the observed changes in a survey performed annually. Another advantage of annual surveys is that it helps to keep the system of benchmarks maintained and provides continuity of procedures, data, and knowledge of stream conditions. These are both essential elements needed for a long term monitoring effort like this to be successful. Annual surveys seem to be an appropriate temporal scale of measurement and should be continued in Little Creek, especially to document changes that might be associated with the Lockheed Fire.

6.1.3 Limitations of data interpretation

The third major limitation to the data collected for this project is that cross-sectional and longitudinal profiles do not directly identify processes or causes of change. Other data and observations are necessary to make these interpretations. It is difficult to understand why the changes seen so far during this study have occurred without this other information. The study design also results in some limitations in interpretation. Many other geomorphic studies utilizing cross sections and longitudinal profiles compare disturbed and undisturbed reaches of a stream or similar adjacent streams. They are typically established after a major disturbance (flood, fire, etc.) to help understand impacts and/or recovery of channels after disturbance. This study is fundamentally observational and its primary goal is understanding conditions in Little Creek in the context of the larger Little Creek project. The study was not designed as an experiment to determine if harvesting had an impact on channel morphology in Little Creek; instead it provides data regarding the occurrences and magnitude of channel change, albeit spatially limited, during the study. The surveys do not serve as primary means of understanding landuse impacts from timber harvesting or impacts from natural

disturbances like floods or the Lockheed Fire. However, additional observations, including flow and precipitation records, photographs, field notes, and personal observations over extended time periods, provide a context which allows interpretation and understanding of the changes that have occurred in Little Creek during the study period and the potential changes (or lack of change) that may result from forest management activities or the Lockheed Fire.

6.2 Observed Changes and Interpretations

The results discussed in Chapter 5 show that most of the changes observed in Little Creek during the study period occurred in Reach C and Reach F. Other individual cross sections also changed during the study period, but Reach C and Reach F were the only ones where similar changes occurred in a majority of the cross sections. A discrete event in the upper section of Reach C, the shifting of a log in 2005–2006 winter, appears to have caused much of the observed change that occurred. The causes of other changes are much harder to interpret, and the data needed to document these causes is very difficult or impossible to obtain. We can develop correlations between phenomenon observed in the field and changes observed in the stream. However, because of complicated relationships between channel morphology and the factors that influence it, without very strong signals, it is impossible to determine why the observed changes in Little Creek occurred.

The largest reach-wide changes observed were in Reach C, notably between C3 and C7. A channel spanning piece of large woody debris shifted, which allowed water to scour under it. This removed a hardpoint and the channel downcut upstream through sediment stored behind the log jam, widening and deepening

the cross sections. This change was also very obvious in the longitudinal profile. The loss of this step and deep pool is one of the reasons thalweg complexity and residual pool depths decreased in Reach C. To a lesser extent, there have also been woody-debris influenced changes in cross-sectional form in Reaches B, E, and F.

Residual pool depths also had relatively high variability during the study period. Residual pool depths are primarily influenced by fine sediment that is mobilized even during relatively moderate flows. Bedload transport in step-pool channels typically demonstrates complicated relationships between discharge magnitude and duration, nature of sediment inputs, and antecedent events (Montgomery & Buffington, 1997). There are some general patterns in the residual depths (drops in depth in 2003 and 2004) but most changes are likely a result of flow conditions at individual pools and year to year variability of the size and timing of storms.

Besides changes associated with large woody debris and residual pool depths discussed above, there generally has been minimal change observed during the study period. This is especially obvious when compared to changes that have occurred historically (1955, 1998) and channel changes in Scotts Creek during the same time period. The relative lack of change during the study period provides a good baseline to evaluate changes that may result from the Lockheed Fire or future flood events.

6.3 Flow Regime During Study Period

There have been no large floods during the study period, however there have been several storms that produced flows at or above the bankfull stage. Figure 6.1 shows the peak flows at the San Lorenzo River at Big Trees stream gage — the closest

Figure 6.1: Annual peak flows at USGS San Lorenzo River at Big Trees gage. The red arrow shows the flows experienced during the study period.

stream gage to Little Creek with a long term record. Table 6.1 shows peak flows and return intervals from the period 1994–2008. The San Lorenzo River is orders of magnitude larger than Little Creek and rainfall characteristics can definitely differ between the two basins, however large flows in the San Lorenzo typically correspond to large flows in Little Creek. A stream gage on Scotts Creek was operated for several years (the record includes 20 annual peak flow measurements between 1937 and 1982) and a comparison of concurrent peak flows shows that relatively large flows in the San Lorenzo generally correspond with relatively large flows in Scotts Creek, and most of the annual peak flows occurred during the same storm event at each station (Figure 6.2). Even though no very large flows have occurred during the study period, peak flows have not been uncommonly low either.

A comparison of Little Creek annual changes in thalweg elevation, mean bed

Table 6.1: Peak flows and return intervals for the San Lorenzo River at Big Trees from 1994–2008.

Water Year	Date	Flow (m ³ /s)	Return Interval (years)
1994	Feb. 19, 1994	65	1.2
1995	Mar. 10, 1995	402	8.1
1996	Feb. 19, 1996	164	1.8
1997	Dec. 10, 1996	323	3.7
1998	Feb. 03, 1998	549	14.6
1999	Feb. 09, 1999	91	1.5
2000	Feb. 13, 2000	214	2.2
2001	Mar. 04, 2001	54	1.2
2002	Dec. 02, 2001	223	2.3
2003	Dec. 16, 2002	374	4.9
2004	Jan. 01, 2004	317	3.3
2005	Jan. 07, 2005	131	1.7
2006	Dec. 31, 2005	377	5.2
2007	Feb. 10, 2007	34	1.1
2008	Jan. 25, 2008	214	2.2

Figure 6.2: Comparison of peak flows in Scotts Creek and the San Lorenzo River

elevation, and bankfull area across all cross sections shows a correlation between standard deviation (larger variability of changes) and years with larger flow magnitude (especially when the 2003 data is omitted when only 2 reaches were surveyed and changes in one or two cross sections has a much higher influence on the standard deviation). Table 6.3 shows the Pearson's correlation coefficients between annual changes and peakflows. Larger flows have more available stream power to rearrange the substrate and result in higher variability of annual change within the study reaches.

Table 6.2: Table of thalweg elevation annual change means and standard deviations and annual peakflows from the San Lorenzo River at Big Trees (USGS 11160500) and the Little Creek North Fork Flume. Standard deviations are larger in years with larger storms (2003, 2004, 2006 and 2008 contrasted with 2005 and 2007). Only the A and B reaches were surveyed in 2003.

Year	Mean Bed Elevation SD (m)	Thalweg SD (m)	Bankfull Area SD (m ²)	San Lorenzo River Peakflow (m ³ /s)	Little Creek NF Peakflow (m ³ /s)
2003	0.062	0.065	0.422	374	0.50
2004	0.050	0.072	0.291	317	1.36
2005	0.032	0.048	0.168	131	0.55
2006	0.047	0.082	0.264	377	0.90
2007	0.039	0.051	0.218	34	0.41
2008	0.046	0.079	0.251	214	1.03

Table 6.3: Pearson's correlation matrix between standard deviation of annual cross section changes and peak flows.

			Pearson's r		
			Mean bed elevation	Thalweg elevation	Bankfull area
All Years	Little Creek Peakflow		0.27	0.74	0.14
	San Lorenzo River Peakflow		0.76	0.73	0.76
2003 omitted	Little Creek Peakflow		0.85	0.76	0.84
	San Lorenzo River Peakflow		0.75	0.84	0.73

6.4 Observations in Context of Morphology and Processes in Little Creek

6.4.1 Stream classification

Morphology in the study reaches in Little Creek typically vary between plane-bed, forced step-pool and step-pool (Montgomery & Buffington, 1998) depending on gradient and presence, size, and arrangement of large woody debris and large boulders (forcing agents). The lower gradient reaches (A and B) could be generally classified as confined plane-bed, however Reach A does have a boulder-forced pool near the bottom of the reach. The higher gradient reaches have step-pool and forced step-pool morphologies. These reaches are primarily considered transport reaches and are generally morphologically resistant to changes induced by moderate changes in sediment supply or discharge. Montgomery & MacDonald (2002) identify likely morphologic responses to increased coarse and fine sediment supply for different channel types (Table 6.4). The channel types in Little Creek are likely to have little response in channel geometry (width and depth) resulting from increases in fine sediment supply (primary potential impact from logging) and moderate responses from increases in coarse sediment supply. In channels like Little Creek, Montgomery & MacDonald (2002) predict that impacts from increased sediment loads are more likely to be realized as changes in pool characteristics and sediment size distribution rather than channel dimensions or reach morphology. Under the Rosgen stream classification system, the channel types in Little Creek (A3 for the higher gradient reaches, B2 to B4 for lower gradient reaches) are identified as having low to moderate sensitivity to disturbance (Rosgen & Silvey, 1996)

TABLE 2. Relative Sensitivity of Alluvial Channel Types to a Chronic Increase in the Supply of Coarse (>2 mm) Sediment: ♦ = very responsive; □ = secondary or small response; ○ = little or no response; — = not applicable. Channel types given by: C = cascade; SP = step-pool; PB = plane-bed; PR = pool-riffle; and DR = dune-ripple.

Response Variables	C	SP	PB	PR	DR
Channel Dimensions					
Bankfull Width	□	□	♦	♦	□
Bankfull Depth	□	□	♦	♦	□
Bed Material (particle size)					
D ₈₄	○	□	♦	♦	♦
D ₅₀	□	□	♦	♦	♦
D ₅₀ in Pools	□	♦	—	♦	○
Percent Fines (< 2 mm)	○	○	○	○	○
Embeddedness	○	○	○	○	○
Pool Characteristics					
Number	—	○	—	♦	□
Area	—	○	—	♦	□
Volume	□	♦	—	♦	□
Residual Depth	□	♦	—	♦	□
V*	—	○	—	○	□
Reach Morphology					
Thalweg Profiles/Bedforms	○	♦	○	♦	○
Bank Erosion	□	□	□	♦	□
Habitat Units	○	○	○	♦	○
Channel Scour	□	□	♦	♦	□
Sediment Transport					
Suspended Load	○	○	○	○	○
Bedload	♦	♦	♦	♦	○

TABLE 3. Relative Sensitivity of Alluvial Channel Types to a Chronic Increase in the Supply of Fine (< 2 mm) Sediment: ♦ = very responsive; □ = secondary or small response; ○ = little or no response; — = not applicable. Channel types given by: C = cascade; SP = step-pool; PB = plane-bed; PR = pool-riffle; and DR = dune-ripple.

Response Variables	C	SP	PB	PR	DR
Channel Dimensions					
Bankfull Width	○	○	○	□	□
Bankfull Depth	○	○	○	□	□
Bed Material (particle size)					
D ₈₄	○	○	□	□	○
D ₅₀	○	○	♦	♦	♦
D ₁₆	□	□	♦	♦	○
D ₅₀ in Pools	□	□	—	♦	♦
Percent Fines (< 2 mm)	□	□	♦	♦	—
Embeddedness	□	□	♦	♦	—
Pool Characteristics					
Number	—	○	—	○	○
Area	—	□	—	□	○
Volume	○	□	—	♦	♦
Residual Depth	□	□	—	♦	♦
V*	—	□	—	♦	—
Reach Morphology					
Thalweg Profiles	○	□	○	♦	□
Bank Erosion	○	○	○	○	□
Habitat Units	○	○	○	□	○
Channel Scour	○	○	○	□	□
Sediment Transport					
Suspended Load	♦	♦	♦	♦	♦
Bedload	○	○	□	□	♦

Table 6.4: Table of sensitivity of alluvial channel types to increases in sediment supply. From Montgomery & MacDonald (2002). Used with permission.

6.4.2 Streamside landslides and debris flows

There is morphological, sedimentary, and historical evidence that landslides and debris flows exert primary controls on channel morphology in Little Creek. All of the study reaches in Little Creek as well as much of channel length (especially in the Mainstem) is incised into fill terraces that appear to be debris flow deposits or sediment deposited behind debris flow or streamside landslide deposits. In the Mainstem of Little Creek these boulder jams and terrace deposits consist of poorly sorted sediment (diameters < 2 mm to > 2 m) that are derived from granitic rock, shist, or sandstone. These rock types are all stratigraphically below the channel bed along almost the entire length of the Mainstem channel¹ indicating that these terrace materials were transported from upstream and are not primarily hillslope derived. Some boulder/log deposits create large steps (> 3 -4m) in the channel profile and have large amounts of sediment stored behind them (see Figure 6.4).

Large streamside landslides are also a major influence on channel morphology. These landslides likely have the greatest influence on the channel directly impacted by the landslide deposits, but also have impacts both up and downstream. Downstream impacts would primarily result from increased sediment loads as the sediment deposited by the landslide is transported downstream. The landslide may also be a triggering mechanism for the initiation of debris flows which could scour the channel downstream. Upstream impacts could result from the change in local baselevel above the deposit; this would lower the gradient upstream and cause aggradation behind the landslide deposit. Most of the hillslopes along Little Creek show evidence for relatively recent landslides (young vegetation, sharply defined scarps, etc.) — both shallow and deep-seated. Figure 6.3 shows relatively

¹The contact between the Santa Cruz mudstone and underlying rocks is in the vicinity of the swimming pool just downstream of the confluence of the North and South forks

Figure 6.3: Map showing recent near-stream landslides in the area around the confluence of the North and South Forks of Little Creek. Landslide areas are highlighted in orange and were mapped from LiDAR topography data and field observations. Contour interval = 12.2m (40 feet).

recent (well defined scarps and voids) streamside landslide features mapped using the 2010 LiDAR-derived 1m DEM and field observations. These landslides are likely also a major input mechanism of large woody debris to the channel.

It appears that most of the terraces in Little Creek result from deposition behind landslide and debris flow deposits, and that flow events that can mobilize and rearrange the large boulders and logs that constitute these deposits (like the 1955 storm) are the primary driver of large-scale morphologic change.

Figure 6.4: Log and Boulder Jam in Mainstem of Little Creek.

6.4.3 Influence of large woody debris

The influence of large woody debris on channel morphology has been recognized in numerous studies (Keller & Swanson, 1979; Faustini & Jones, 2003; Montgomery & Buffington, 1998; Montgomery et al., 2003). Large woody debris is an important forcing agent in Little Creek, and a majority of the steps and pools in the channel are influenced by large woody debris. Much of the observed change in Little Creek during the study period can be related to inputs or reorganization of woody debris in the channel. The type of wood introduced to channel appears to have an impact on the longevity of influence. Most of the larger steps in the channel are formed by redwood logs or rootwads that are typically larger, decay resistant and long lived. This makes them more likely to accumulate other wood pieces over time to create wood complexes that have a larger influence on morphology (Montgomery et al., 2003). In contrast, as trees from the even-aged riparian stand (that was

established after the 1955 flood) reach maturity and succumb to disease and decay, large quantities of red alder have been recruited to the Mainstem channel in recent years. These trees typically have smaller diameters than the conifer species, are decay prone, and typically only survive in the channel for 3-5 years before they decay and are destroyed by streamflows. Depending on orientation and location, red-alder derived woody debris can have a significant influence on the channel, but it is typically only for a short time period. It is likely that several large bedload-mobilizing flows must interact with woody debris in order for significant morphological changes to occur, and the red alder typically decays before this can occur. An estimated 80 percent of the large woody debris influenced pools and steps in Little Creek result from redwood logs or rootwads, and some of these features may influence the channel for hundreds of years.

6.4.4 Conceptual model of morphologic changes in Little Creek

This section presents a model of morphologic change in Little Creek based on the observations from the study period, historic geomorphic evidence, and the morphology of Little Creek (Figure 6.5). Most of the channel morphology is dominated by patterns that develop after debris-flow events that can mobilize and rearrange a majority of the larger particle sizes present in the bed. There is then an adjustment period where normal high flows (2-5 year return intervals) reorganize the bed until a relatively stable configuration develops that is controlled by the arrangement of the larger bed particles and large woody debris. Between these large debris-flow events, the channel form appears to be relatively stable with only small adjustments in shape or bed configuration, even though flow events can

mobilize a majority of the clasts forming the channel bed. The particle size that can be mobilized by streamflows is highly dependent on local gradient and flow configuration, but particles at least up to 256 mm have been observed moving through the flumes during regular high flow events. The channel upstream of the 1998 streamside-landslide deposit in Reach D appears to be an example of this model. The channel likely had some initial adjustment after the landslide, especially within the deposit itself, but the reach has been stable since 2002. This model is consistent with what others have observed in steep mountainous channels influenced by debris flows (Montgomery & Buffington, 1998). It will be interesting to observe how the channel responds to the Lockheed Fire. Initial observations are that channel changes have been minor compared to responses observed in other systems (Eccleston, 2008; Meyer et al., 1992; Jackson & Roering, 2009).

Between large debris-flow events, it appears that most channel change is associated with input or modification of large woody debris in the channel. These changes are localized and not necessarily influenced by the flow regime. For example, many trees were recruited to the channel after the 2009 Lockheed Fire either directly through fire damage to roots and stems, or indirectly through mortality. There is likely a strong correlation between large woody debris recruitment and debris-flow events; the storms that produce debris flows also likely cause many stream-side landslides and fluvially-related bank failures which appear to be primary large woody debris recruitment mechanisms in Little Creek. There also is some adjustment period after large woody debris modification, but stable conditions likely develop within a relatively short time period.

Figure 6.5: Conceptual model of channel change in Little Creek.

Chapter 7

Conclusion

The channel morphology in Little Creek has been relatively stable during the period 2002–2008. Changes were primarily observed in Reach C and Reach F. Reach C had a degradational trend during the study period, primarily associated erosion of material stored behind a large woody debris deposit. The reach-wide average mean bankfull bed elevation dropped 0.08 m with drops of up to 0.15 m in some cross sections. Reach F had an aggradational trend during the study period. The reach-wide average mean bankfull bed elevation increased 0.08 m with increases of up to 0.15 m in some cross sections. Reach-wide average mean bankfull bed elevations in the other study reaches changed less than 0.05 m during the study period, which is also the approximate error in surveying the bed elevation. Similar patterns were observed in measurements of thalweg elevation and cross-sectional area. Variability of year-to-year changes appears to correlate with magnitude of annual peakflows, and pool residual depths are generally more dynamic than cross section geometry. It appears that in the the absence of debris-flow events or input or modification of large woody debris, even flows that can potentially mobilize

most of the bed material do not cause major changes in channel morphology in Little Creek.

This is a strong contrast to the lower gradient portions of Scotts Creek, where bankfull flows can completely transform the bed morphology and transport and reorganize large woody debris. Many reaches in Scotts Creek have changed significantly during the last five years, and current work (Goin, in prep.) has re-established surveys that were conducted in 1997, 1998, and 2000 along the length of Scotts Creek on Swanton Pacific Ranch.

An understanding of channel dynamics in Little Creek provides an excellent baseline to help understand changes that may result from the Lockheed fire. The data collected will also be a valuable resource to future researchers trying to understand channel changes and recovery that may result from future events like debris-flows, earthquakes, and timber harvest. The channel metrics identified and calculated in this thesis will facilitate these analyses.

7.1 Future Work and Opportunities

To ensure that this dataset has value in the future, modifications and additional data collection are recommended for future annual surveys. First, the importance of reliable, immobile benchmarks must be stressed. The steep side slopes in Little Creek are a challenging location to establish cross section endpoints, and most of the original 3/8" cemented benchmarks were not installed deep enough to provide a stable control of position and elevation. This rebar movement added an unknown source of error to estimates of channel change. In 2010, new rebar endpoints were established at approximately 35 of the cross sections. These endpoints should

provide a more stable benchmark and new endpoints should be established and documented as needed. Secondly, more consistent guidelines for surveyors need to be established and followed. New instructions for surveyors (Appendix C) were developed and added to the Little Creek Field Manual, which should help with the collection of more consistent, accurate data. Third, additional data should be collected which can help provide other information to help understand changes in the channel and provide context for interpretation. It is recommended that a pebble count in each reach be added to the annual survey based on the methodology in Harrelson et al. (1994). Pebble counts were performed before and after the first winter following the Lockheed Fire (2009–2010), and this data collection effort should continue annually. Additionally, an annual photo set should be taken of each reach. At a minimum, this set should have a photo of each cross section showing at least the bankfull channel looking both upstream and downstream. This photo set should provide visual information that can help future researchers understand conditions in Little Creek at the time of each study and provide information needed to make interpretations from changes seen in cross sections or longitudinal profiles.

7.2 Data Archiving and Preservation

The final goal of this thesis is ensuring that these data and benchmarks will be available to future researchers. This data will be archived in several ways. Appendix D contains the quality controlled data for all cross sections and longitudinal profiles. This document will provide a permanent record of this data that will be stored in the Cal Poly library's collection which will be accessible for future use. The true coordinates of the permanent points and cross section endpoints will also

allow re-establishment of these locations if they are ever lost in the field. Appendix E contains the Visual Basic code used for all of the analysis so it can be referenced or checked by future researchers. A file will also be established at Swanton Pacific Ranch library that will contain all of the field books, a copy of this thesis, and a DVD and flash drive containing all of the spreadsheets, databases, and Minitab worksheets used for the analysis. A text version of the data will also be provided to assist future researchers in case there is difficulty opening the spreadsheets due to software changes.

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Appendix A

Graphs of All Cross Sections

Figure A.1: Little Creek Cross Section A1

Figure A.2: Little Creek Cross Section A2

Figure A.3: Little Creek Cross Section A3

Figure A.4: Little Creek Cross Section A4

Figure A.5: Little Creek Cross Section A5

Figure A.6: Little Creek Cross Section A6

Figure A.7: Little Creek Cross Section A7

Figure A.8: Little Creek Cross Section A8

Figure A.9: Little Creek Cross Section A9

Figure A.10: Little Creek Cross Section A10

Figure A.11: Little Creek Cross Section B1

Figure A.12: Little Creek Cross Section B2

Figure A.13: Little Creek Cross Section B3

Figure A.14: Little Creek Cross Section B4

Figure A.15: Little Creek Cross Section B5

Figure A.16: Little Creek Cross Section B6

Figure A.17: Little Creek Cross Section B7

Figure A.18: Little Creek Cross Section B8

Figure A.19: Little Creek Cross Section B9

Figure A.20: Little Creek Cross Section B10

Figure A.21: Little Creek Cross Section C1

Figure A.22: Little Creek Cross Section C2

Figure A.23: Little Creek Cross Section C3

Figure A.24: Little Creek Cross Section C4

Figure A.25: Little Creek Cross Section C5

Figure A.26: Little Creek Cross Section C6

Figure A.27: Little Creek Cross Section C7

Figure A.28: Little Creek Cross Section C8

Figure A.29: Little Creek Cross Section C9

Figure A.30: Little Creek Cross Section C10

Figure A.31: Little Creek Cross Section D1

Figure A.32: Little Creek Cross Section D2

Figure A.33: Little Creek Cross Section D3

Figure A.34: Little Creek Cross Section D4

Figure A.35: Little Creek Cross Section D5

Figure A.36: Little Creek Cross Section D6

Figure A.37: Little Creek Cross Section D7

Figure A.38: Little Creek Cross Section D8

Figure A.39: Little Creek Cross Section D9

Figure A.40: Little Creek Cross Section D10

Figure A.41: Little Creek Cross Section E1

Figure A.42: Little Creek Cross Section E2

Figure A.43: Little Creek Cross Section E3

Figure A.44: Little Creek Cross Section E4

Figure A.45: Little Creek Cross Section E5

Figure A.46: Little Creek Cross Section E6

Figure A.47: Little Creek Cross Section E7

Figure A.48: Little Creek Cross Section E8

Figure A.49: Little Creek Cross Section E9

Figure A.50: Little Creek Cross Section E10

Figure A.51: Little Creek Cross Section F1

Figure A.52: Little Creek Cross Section F2

Figure A.53: Little Creek Cross Section F3

Figure A.54: Little Creek Cross Section F4

Figure A.55: Little Creek Cross Section F5

Figure A.56: Little Creek Cross Section F6

Figure A.57: Little Creek Cross Section F7

Figure A.58: Little Creek Cross Section F8

Figure A.59: Little Creek Cross Section F9

Figure A.60: Little Creek Cross Section F10

Appendix B

Graphs of All Longitudinal Profiles

Figure B.1: Reach A longitudinal profile.

Figure B.2: Reach B longitudinal profile.

Figure B.3: Reach C longitudinal profile.

Figure B.4: Reach D longitudinal profile.

Figure B.5: Reach E longitudinal profile.

Figure B.6: Reach F longitudinal profile.

Appendix C

Instructions for Surveyors

This appendix contains specific instructions for surveying the permanent cross section and longitudinal profile surveys in Little Creek. Surveyors are encouraged to first review Harrelson et al. (1994) published by the USFS Rocky Mountain Research Station, which covers channel surveying procedures and theory in more depth than provided here. The intent of these instructions is to provide guidelines that will minimize errors in surveying with the overall goal of aiding the interpretation of future changes in Little Creek. Confident data interpretation depends on the confidence in the accuracy of the survey data.

C.1 Cross section Instructions

C.1.1 Equipment

Below is a list of the equipment needed to survey in the permanent cross sections. Treat the equipment with care (especially the level) and replace any defective or damaged equipment.

1. Auto-level
2. Tripod
3. Philadelphia rod
4. Rod level (bullseye)
5. Field Book
6. These instructions
7. Machete
8. Handsaw
9. Flagging (Pink or Orange)
10. (if needed) New rebar (5/8" diameter and minimum 5' long) and hammer
11. 0.1' ruled PVC pipe w/ level (for undercut banks)

Instructions

Before surveying, make sure that the level has not been damaged or is out of calibration by performing a peg test (see Harrelson et al. (1994)). Extend a cloth tape from the left rebar (steel rod that marks the end of the cross section) to the right rebar (looking downstream) so the zero mark is on the left rebar. Make sure the tape is snug but not so tight that it bends the rebar. Set up and level the tripod and attach the automatic level. Make sure that the level is set up above the top of both rebar endpoints and at least one of the permanent point benchmarks (2" diameter pipes). Inspect the rebar and if flagging is missing or deteriorated reflag and label with the cross section number. Flagging should be

several feet long to aid in find rebar that becomes buried. Check if the rebar is bent or loose. If it is loose or has moved, measure and note the offset and draw a sketch in the field book that illustrates the orientation of the rebar. Install a new rebar endpoint outside of the existing cross section (in the same plane) if the existing rebar seems unstable (with 5/8" rebar at least 5' long). If possible, choose a location that is relatively close to the same elevation as the opposite rebar. In 2010, new rebar endpoints were installed in approximately half of the reaches. Make sure you include the top and base of the old rebar in the new survey.

Field book setup

Set up the field book as shown in Harrelson et al. (1994). Use one of the permanent benchmarks as your backsight to set the height of instrument. Elevations of all the benchmarks are in Table C.1.

Making measurements

Take measurements starting from the top and bottom of the left rebar (looking downstream). If the rebar endpoint is tilted or bent, place the zero mark of the tape at the bottom of the rebar. Take measurements at all breaks in slope. Also take measurements at bankfull indicators, top of bank (if terrace or other feature), edge of water (both sides) and thalweg (deepest part of channel). If no bankfull indicator exists, write NO BANKFULL INDICATOR. Include as much detail as possible. More points are much better than fewer points when trying to interpret the data. Detailed descriptions and many data points are especially important on steep banks or complicated sections of stream. There should be a measurement at least every foot except in areas that are planar or featureless.

Benchmark	Elevation (ft)
PPA	93.81
PPA2	91.37
PPA3	93.96
PPB	143.43
PPB2	139.72
PPB3	152.06
PPC	318.45
PPC2	297.64
PPC3	321.92
PPD	362.94
PPD2	356.55
PPD3	363.37
PPE	631.69
PPE2	627.37
PPF	362.51
PPF2	355.36
PPF3	351.78

Table C.1: Table of existing benchmark elevations.

Make sure the surveying rod is level on each measurement and make sure the rod is directly under the tape. When surveying rocks, boulders, logs, etc., measure enough points to represent the true shape (not just a triangle) and note the feature in the fieldbook. Be specific and provide details — what is the diameter of a boulder or species of a log; is the rock or log embedded in substrate or lying on top? Typically, logs are removed from the survey, but the information is still valuable. When surveying in the active channel, ignore features that are small enough that they can be easily moved with your foot and either kick them out of the way or survey between them.

Special care must be taken when taking measurements that are close to a “whole” foot on the Philadelphia rod. For example, 4.95 is often mistakenly read as 5.95 because the large 5 is what is seen when looking through the scope. Be conscious of this and this mistake will be minimized. Also make sure the rod is

completely extended the necessary distance when making a reading. A reading of 7 ft followed by one of 11 ft should mean the rod moved down four feet, it should not mean that the rod was not fully extended. Think about each measurement as you take it and make sure it makes sense. The largest foresight reading should be the thalweg and measurements should only change drastically when the rod is on a steep slope.

Undercut banks

To survey an undercut bank, level the Philadelphia rod and position it so it is touching the top of the undercut bank. Use a ruled PVC pipe or pocket rod (with a carpenters level to ensure the ruler is horizontal) to measure the shape of the bank in the same direction of the survey. Measure the top of the undercut bank first on downstream left bank and the bottom of the undercut bank first on the downstream right bank. Measuring the start of the undercut bank will be the same as a normal reading, however, make sure to write “start undercut bank in the notes”. The next reading will use the distance measured with the ruler from the Philadelphia rod to the bank as the distance measurement, with a plus or minus to indicate direction towards the undercut bank (+ will be used the right bank, – on left banks). The foresight recorded is the height of the rod where the distance to the undercut bank was measured (put a minus sign in front to indicate that is subtracted from the initial foresight). Continue to take measurements in this manner until the shape of the bank is accurately described. The last measurement will be the location where the Philadelphia rod is touching the bank. This measurement will have the same distance as the measurement at the start of the undercut bank, and the foresight will be the height where the

bank touches the rod. Sketch the shape of the bank and where measurements were taken in the field book. See the example below.

Field Book						
Dist	BS	HI	FS	ELEV	DESC	Notes
35.1			7.12		BIS	Start Undercut Bank
+0.8			-1.07		BIS	Undercut Bank
+1.4			-3.12		BIS	Undercut Bank
+0.0			-4.79		BIS	End Undercut Bank
37.2			3.12		BIS	Top of bank
Data Entry						
Dist	BS	HI	FS	ELEV	DESC	Notes
		107.00				
35.1			7.12	99.88	BIS	Start Undercut Bank
35.9			6.02	100.98	BIS	Undercut Bank
36.5			4.00	103.00	BIS	Undercut Bank
35.1			2.33	104.67	BIS	End Undercut Bank
37.2			3.12	103.88	BIS	Top of bank

At the end of the survey shoot back to first rebar to check backsight and close the survey the reading should be the same as the initial backsight. This ensures that the level did not move during the survey.

C.2 Longitudinal Profile Instructions

C.2.1 Equipment

Below is a list of the equipment needed to survey in the permanent cross sections. Treat the equipment with care (especially the total station) and replace any defective or damaged equipment.

1. Total station
2. Data collector
3. Cables and extra battery
4. Tripod
5. Survey rods (2) – one with tripod legs
6. Prisms (2)
7. Pocket rod
8. Field Book
9. These instructions
10. Machete
11. Handsaw
12. Flagging (Pink or Orange)

C.2.2 Setup

Equipment used varies but the general setup is the same for total station surveying regardless of the equipment used. Verify that the data collector and total station can communicate before going into the field (a good test is setting the backsight angle to zero on the instrument). Familiarize yourself with the surveying software. Set up a job file for each reach and enter the coordinates of the permanent points.

C.2.3 Surveying

At the study reach identify the permanent benchmark points. They are 2" capped steel pipes painted orange with a drilled indentation marking the exact benchmark location. The benchmarks should be labeled with the point name ("PPA2" for example). If the point name is missing or faded relabel it with a permanent marker. The longitudinal profile should be surveyed from downstream to upstream. Set up the total station on the point which allows you to see farthest downstream, and set up your backsight on another permanent point. Ensure both the backsight and total station are leveled and centered directly above the mark on the pipe. A plumb bob (a string tied to a nut works well) helps to set up the tripod directly over the permanent point. Measure the height from the pipe to the center of the backsight prism (HR=height of rod) and to the axis of the scope (HI=height of instrument). Do not use the measurements on the rod, because they are not accurate with the prisms we use. Set up the total-station with these values and very precisely aim at the center of the backsight scope. Send the backsight circle of zero to the instrument and then take a shot to check the distance. The error should be less than 0.05' in both the horizontal or vertical direction. If the error is greater, recheck the level and height of the total station and backsight rod.

Once the total station is set up correctly you can begin making measurements. Set the foresight rod to 5.0' and measure the true height. This height will likely need to be adjusted during the survey and it is easiest if it is adjusted in whole feet (5', 6', 7', 8') so the total station operator can easily adjust the height of instrument in the data collector. The foresight rod should be kept as short as possible during surveying to minimize errors that occur from the rod not being level. Identify the longitudinal profile start rebar/flagging and replace if faded, damaged, or missing. The start location should be at farthest downstream location visible from the benchmark points. Start taking side shots at breaks in slope of the thalweg longitudinal profile. Points should be stored with a descriptive label (typically riffle, tail of pool, middle of pool, head of pool) but add other useful information that will aid interpretation of the profile to the point labels. More points is better than fewer points. It is especially important to accurately represent pools in the longitudinal profile. Take special care to accurately survey the tail of the pool (downstream end where water surface begins to slope downstream) and deepest points of pools to ensure accurate measurement of the residual depth. When the channel is split, survey the side that has the lowest elevation in cross section.

As you survey, frequently check that the total station is level. If the legs are in direct sunlight they expand as they heat, and tilt the total station slightly. After re-leveling check the backsight circle (it should be 0) and reset as needed. Once you finish surveying the profile visible from a permanent point you will survey the tops of the rebar pins visible from that location before moving to the next benchmark. Store these points in a different number series than the longitudinal points (you want to make sure all the longitudinal points are in sequential order from downstream to upstream when you are done surveying). For example, survey the

longitudinal profile starting with point 100, and start the cross sections endpoints with point 600. Survey the top of the rebar and where the rebar intersects the ground. Label points like this: XS1Rtop, XS1Rbot, XS1Ltop, XS1Lbot. After surveying the rebar visible from the permanent point, move to next benchmark upstream and repeat. Make sure you set the point number back to the series containing the longitudinal data before taking longitudinal profile measurements again.

C.3 Pebble Count

Perform pebble count as described in Harrelson et al. (1994). Collect 100 measurements between the uppermost and lowermost cross sections, stratifying the sampling locations based on channel condition (pools and riffles).

Appendix D

Survey Data for All Cross Sections and Longitudinal Profiles

D.1 Cross Section Data

Table D.1: All cross section survey data

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	A	1	1	0.00	100.00	TSL		FALSE
2002	A	1	2	0.00	99.81	BS		FALSE
2002	A	1	3	2.68	99.32	B @ EL		FALSE
2002	A	1	4	2.93	99.30	B @ EL		FALSE
2002	A	1	5	3.08	99.27	BF		FALSE
2002	A	1	6	3.57	98.95	BIS		FALSE
2002	A	1	7	3.99	98.83	WE		FALSE
2002	A	1	8	4.79	98.68	TW		FALSE
2002	A	1	9	5.97	98.83	WE		FALSE
2002	A	1	10	6.40	98.93	BIS		FALSE
2002	A	1	11	7.22	99.42	BF		FALSE
2002	A	1	12	8.75	99.59	BIS		FALSE
2002	A	1	13	9.14	99.74	BS		FALSE
2002	A	1	14	9.14	100.01	TSR		FALSE
2002	A	2	1	0.00	100.00	TSL		FALSE
2002	A	2	2	0.00	99.64	BS		FALSE
2002	A	2	3	1.34	99.45	TB		FALSE
2002	A	2	4	1.34	99.38	BF		FALSE
2002	A	2	5	2.93	98.74	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	A	2	6	4.72	98.21	WE		FALSE
2002	A	2	7	5.30	98.13	BIS		FALSE
2002	A	2	8	6.19	97.94	TW		FALSE
2002	A	2	9	6.86	98.01	SB @ Edge		FALSE
						Log		
2002	A	2	10	6.86	98.21	WE - actu- ally under de- bris		FALSE
2002	A	2	11	6.92	98.92	TL		TRUE
2002	A	2	12	7.25	98.92	TL		TRUE
2002	A	2	13	7.35	98.50	EL - Debris		TRUE
2002	A	2	14	7.62	98.36	TL - WE un- derneath		FALSE
2002	A	2	15	7.74	98.46	BB		FALSE
2002	A	2	16	7.77	98.68	BIS - debris		FALSE
2002	A	2	17	8.29	98.73	BIS - debris		FALSE
2002	A	2	18	8.50	99.13	BIS - debris		FALSE
2002	A	2	19	9.14	99.18	BIS - debris		FALSE
2002	A	2	20	9.21	98.95	BIS - debris		FALSE
2002	A	2	21	9.48	99.00	BIS - debris		FALSE
2002	A	2	22	9.75	99.36	TB		FALSE
2002	A	2	23	10.73	99.67	BS		FALSE
2002	A	2	24	10.73	100.00	TSR		FALSE
2002	A	3	1	0.00	100.00	TSL		FALSE
2002	A	3	2	0.00	99.46	BS		FALSE
2002	A	3	3	0.70	99.34	TB		FALSE
2002	A	3	4	0.88	98.83	BIS		FALSE
2002	A	3	5	1.62	98.20	BF		FALSE
2002	A	3	6	2.04	98.02	BIS		FALSE
2002	A	3	7	2.26	97.98	WE		FALSE
2002	A	3	8	2.26	97.74	BB/TW		FALSE
2002	A	3	9	3.32	97.91	BIS		FALSE
2002	A	3	10	4.24	97.87	BIS		FALSE
2002	A	3	11	4.69	97.98	WE		FALSE
2002	A	3	12	5.43	98.20	BIS	raised 1 foot	FALSE
2002	A	3	13	6.34	98.51	BF	raised 1 foot	FALSE
2002	A	3	14	8.29	98.45	BIS		FALSE
2002	A	3	15	8.63	98.52	BIS		FALSE
2002	A	3	16	10.76	99.67	BS		FALSE
2002	A	3	17	10.76	100.09	TSR		FALSE
2002	A	4	1	0.00	100.00	TSL		TRUE
2002	A	4	2	0.00	99.69	BS		TRUE
2002	A	4	3	0.91	99.58	BIS		TRUE
2002	A	4	4	1.25	99.48	BIS		TRUE
2002	A	4	5	2.38	99.41	TB		TRUE
2002	A	4	6	2.47	99.18	BF	2004 survey different	TRUE
2002	A	4	7	2.47	98.75	BS		TRUE
2002	A	4	8	2.71	98.69	BR		TRUE
2002	A	4	9	2.77	98.79	TR		TRUE
2002	A	4	10	3.05	98.77	TR		TRUE
2002	A	4	11	3.08	98.69	WE		TRUE
2002	A	4	12	3.08	98.57	BR		TRUE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	A	4	13	4.05	98.47	TW		TRUE
2002	A	4	14	5.36	98.69	WE		TRUE
2002	A	4	15	5.73	98.74	BIS		TRUE
2002	A	4	16	6.49	99.18	BF	2004 survey different	TRUE
2002	A	4	17	7.59	99.19	BIS		TRUE
2002	A	4	18	8.20	99.44	BIS		TRUE
2002	A	4	19	8.32	99.87	BIS		TRUE
2002	A	4	20	9.69	99.92	BS		TRUE
2002	A	4	21	9.69	100.01	TSR		TRUE
2002	A	5	1	0.00	100.00	TSL		FALSE
2002	A	5	2	0.00	99.70	BS		FALSE
2002	A	5	3	1.16	99.87	BIS/ALDER		FALSE
2002	A	5	4	2.01	99.79	BIS/ALDER		FALSE
2002	A	5	5	2.07	99.33	BIS		FALSE
2002	A	5	6	2.23	99.31	TB/BF		FALSE
2002	A	5	7	2.74	98.74	BIS		FALSE
2002	A	5	8	2.99	98.67	WE		FALSE
2002	A	5	9	4.21	98.45	TW		FALSE
2002	A	5	10	5.24	98.67	WE		FALSE
2002	A	5	11	5.64	98.82	BIS		FALSE
2002	A	5	12	6.31	99.01	BF		FALSE
2002	A	5	13	7.32	99.58	BIS		FALSE
2002	A	5	14	7.86	99.54	BS		FALSE
2002	A	5	15	7.86	99.98	TSR		FALSE
2002	A	6	1	0.00	100.00	TSL		FALSE
2002	A	6	2	0.00	99.79	BS		FALSE
2002	A	6	3	0.58	99.66	TB/ROOT		FALSE
2002	A	6	4	0.70	98.49	BF		FALSE
2002	A	6	5	0.70	98.37	BS		FALSE
2002	A	6	6	1.10	98.32	BIS		FALSE
2002	A	6	7	1.52	97.92	WE		FALSE
2002	A	6	8	2.77	97.81	TW		FALSE
2002	A	6	9	4.24	97.92	WE		FALSE
2002	A	6	10	4.60	98.49	BF		FALSE
2002	A	6	11	5.46	98.84	TB/ROOT		FALSE
2002	A	6	12	7.13	99.10	BIS		FALSE
2002	A	6	13	10.73	99.14	BIS		FALSE
2002	A	6	14	14.81	99.03	BIS		FALSE
2002	A	6	15	15.30	99.34	BS		FALSE
2002	A	6	16	15.30	99.73	TSR		FALSE
2002	A	7	1	0.00	100.00	TSL		FALSE
2002	A	7	2	0.00	99.74	BS		FALSE
2002	A	7	3	0.70	99.62	TB		FALSE
2002	A	7	4	1.19	99.18	BIS		FALSE
2002	A	7	5	1.28	98.71	BF		FALSE
2002	A	7	6	1.34	98.46	BB		FALSE
2002	A	7	7	1.80	98.47	BR		FALSE
2002	A	7	8	1.89	98.73	TR		FALSE
2002	A	7	9	2.32	98.72	TR		FALSE
2002	A	7	10	2.50	98.34	WE		FALSE
2002	A	7	11	2.50	98.21	BR		FALSE
2002	A	7	12	3.02	98.13	TW		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	A	7	13	3.99	98.19	BIS		FALSE
2002	A	7	14	4.75	98.34	WE		FALSE
2002	A	7	15	5.46	98.71	BF/TB		FALSE
2002	A	7	16	7.01	99.02	BIS		FALSE
2002	A	7	17	7.89	99.09	BIS		FALSE
2002	A	7	18	8.84	99.40	BIS		FALSE
2002	A	7	19	9.81	99.52	BIS		FALSE
2002	A	7	20	16.43	99.30	BIS		FALSE
2002	A	7	21	17.62	99.40	BIS		FALSE
2002	A	7	22	18.71	99.83	BS		FALSE
2002	A	7	23	18.71	100.20	TSR		FALSE
2002	A	8	1	0.00	100.00	TSL		FALSE
2002	A	8	2	0.00	99.62	BS		FALSE
2002	A	8	3	0.79	99.52	TB		FALSE
2002	A	8	4	1.19	98.36	BF		FALSE
2002	A	8	5	1.19	98.35	BB		FALSE
2002	A	8	6	2.80	97.94	WE		FALSE
2002	A	8	7	4.02	97.74	TW		FALSE
2002	A	8	8	5.18	97.94	WE		FALSE
2002	A	8	9	6.13	98.36	BF/TB		FALSE
2002	A	8	10	7.47	98.58	BIS		FALSE
2002	A	8	11	9.36	98.81	BIS		FALSE
2002	A	8	12	10.73	98.87	BIS		FALSE
2002	A	8	13	11.95	99.20	BIS		FALSE
2002	A	8	14	15.21	99.16	BIS		FALSE
2002	A	8	15	16.49	98.98	BIS		FALSE
2002	A	8	16	18.53	99.15	BIS		FALSE
2002	A	8	17	19.60	99.63	BS		FALSE
2002	A	8	18	19.60	100.00	TSR		FALSE
2002	A	9	1	0.00	100.00	TSL		FALSE
2002	A	9	2	0.00	99.63	BS		FALSE
2002	A	9	3	0.73	99.67	TB		FALSE
2002	A	9	4	0.82	98.76	BF		FALSE
2002	A	9	5	0.88	98.70	BB		FALSE
2002	A	9	6	2.19	98.47	BR		FALSE
2002	A	9	7	2.23	98.63	TR		FALSE
2002	A	9	8	2.65	98.64	TR		FALSE
2002	A	9	9	2.71	98.42	BR		FALSE
2002	A	9	10	4.08	98.16	WE		FALSE
2002	A	9	11	4.91	98.07	BIS		FALSE
2002	A	9	12	5.64	97.97	TW		FALSE
2002	A	9	13	6.64	98.11	BIS		FALSE
2002	A	9	14	7.32	98.16	WE		FALSE
2002	A	9	15	8.26	98.76	BF/TB		FALSE
2002	A	9	16	11.13	99.04	BIS		FALSE
2002	A	9	17	11.95	98.95	BIS		FALSE
2002	A	9	18	12.68	99.14	BIS		FALSE
2002	A	9	19	12.98	99.38	BIS		FALSE
2002	A	9	20	14.05	99.44	BR		FALSE
2002	A	9	21	14.42	99.59	TR		FALSE
2002	A	9	22	14.57	99.35	BR		FALSE
2002	A	9	23	16.31	99.29	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	A	9	24	17.16	99.21	BIS		FALSE
2002	A	9	25	19.54	99.39	BIS		FALSE
2002	A	9	26	20.64	99.88	BS		FALSE
2002	A	9	27	20.64	100.24	TSR		FALSE
2002	A	10	1	0.00	100.00	TSL		FALSE
2002	A	10	2	0.00	99.58	BS		FALSE
2002	A	10	3	0.40	99.54	TB		FALSE
2002	A	10	4	0.52	98.57	BB		FALSE
2002	A	10	5	2.68	98.38	BF		FALSE
2002	A	10	6	3.75	98.28	BIS		FALSE
2002	A	10	7	4.24	98.15	BIS		FALSE
2002	A	10	8	4.48	98.29	BIS		FALSE
2002	A	10	9	5.52	98.28	BIS		FALSE
2002	A	10	10	7.38	97.91	BR		FALSE
2002	A	10	11	7.56	98.09	TR		FALSE
2002	A	10	12	8.08	97.97	TR		FALSE
2002	A	10	13	8.20	97.81	WE		FALSE
2002	A	10	14	8.20	97.73	BR		FALSE
2002	A	10	15	8.69	97.60	TW		FALSE
2002	A	10	16	8.93	97.66	BR		FALSE
2002	A	10	17	8.93	97.81	WE		FALSE
2002	A	10	18	9.45	98.24	TR		FALSE
2002	A	10	19	10.12	98.08	BR-BB		FALSE
2002	A	10	20	10.24	98.38	BF		FALSE
2002	A	10	21	10.36	98.61	TB		FALSE
2002	A	10	22	12.80	98.97	BIS		FALSE
2002	A	10	23	14.54	98.95	BIS		FALSE
2002	A	10	24	15.70	99.23	BIS		FALSE
2002	A	10	25	16.92	98.98	BIS		FALSE
2002	A	10	26	18.50	99.20	BIS		FALSE
2002	A	10	27	20.18	99.80	BS		FALSE
2002	A	10	28	20.18	100.00	TSR		FALSE
2002	B	1	1	0.00	100.00	TSL		FALSE
2002	B	1	2	0.00	99.85	BS		FALSE
2002	B	1	3	0.30	99.71	BIS		FALSE
2002	B	1	4	0.43	99.25	TR		FALSE
2002	B	1	5	0.67	99.05	TR		FALSE
2002	B	1	6	0.88	98.55	BR		FALSE
2002	B	1	7	1.58	98.47	BF		FALSE
2002	B	1	8	2.13	97.82	BIS		FALSE
2002	B	1	9	2.80	97.64	WE		FALSE
2002	B	1	10	3.75	97.53	TW1		FALSE
2002	B	1	11	3.99	97.60	BIS		FALSE
2002	B	1	12	4.98	97.53	TW2		FALSE
2002	B	1	13	5.27	97.61	BIS		FALSE
2002	B	1	14	5.79	97.54	BIS		FALSE
2002	B	1	15	6.64	97.64	WE		FALSE
2002	B	1	16	7.41	98.11	BF		FALSE
2002	B	1	17	8.17	98.43	BIS		FALSE
2002	B	1	18	9.14	98.88	BIS		FALSE
2002	B	1	19	10.12	99.72	BS		FALSE
2002	B	1	20	10.12	99.98	TSR		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	B	2	1	0.00	100.00	TSL		FALSE
2002	B	2	2	0.00	99.59	BS		FALSE
2002	B	2	3	0.34	99.09	BIS		FALSE
2002	B	2	4	0.70	98.91	BIS		FALSE
2002	B	2	5	1.19	98.79	BIS		FALSE
2002	B	2	6	2.01	98.30	BIS		FALSE
2002	B	2	7	2.29	98.01	BF		FALSE
2002	B	2	8	3.11	97.47	WE		FALSE
2002	B	2	9	3.87	97.37	BIS		FALSE
2002	B	2	10	4.82	97.34	TW		FALSE
2002	B	2	11	5.18	97.42	BIS		FALSE
2002	B	2	12	6.00	97.40	BIS		FALSE
2002	B	2	13	6.98	97.46	WE		FALSE
2002	B	2	14	7.44	97.51	BIS		FALSE
2002	B	2	15	8.56	97.98	BF		FALSE
2002	B	2	16	10.61	99.51	BS		FALSE
2002	B	2	17	10.61	99.99	TSR		FALSE
2002	B	3	1	0.00	100.00	TSL		FALSE
2002	B	3	2	0.00	99.45	BS		FALSE
2002	B	3	3	1.13	98.95	BIS		FALSE
2002	B	3	4	1.49	98.37	BF		FALSE
2002	B	3	5	2.23	98.13	BIS		FALSE
2002	B	3	6	3.57	98.24	BIS		FALSE
2002	B	3	7	4.21	98.09	WE		FALSE
2002	B	3	8	5.15	97.89	TW		FALSE
2002	B	3	9	6.22	98.09	WE		FALSE
2002	B	3	10	6.92	98.50	BF		FALSE
2002	B	3	11	7.01	98.68	BIS		FALSE
2002	B	3	12	7.89	99.08	BIS		FALSE
2002	B	3	13	8.26	99.36	BIS		FALSE
2002	B	3	14	8.53	99.81	BS		FALSE
2002	B	3	15	8.53	99.98	TSR		FALSE
2002	B	4	1	0.00	100.00	TSL		FALSE
2002	B	4	2	0.00	99.84	BS		FALSE
2002	B	4	3	1.52	99.41	BF		FALSE
2002	B	4	4	1.74	98.90	BB		FALSE
2002	B	4	5	2.41	98.64	BIS		FALSE
2002	B	4	6	2.77	98.70	BIS		FALSE
2002	B	4	7	3.02	98.79	BIS		FALSE
2002	B	4	8	3.32	98.78	BR		FALSE
2002	B	4	9	3.44	98.93	TR		FALSE
2002	B	4	10	3.57	98.79	BR		FALSE
2002	B	4	11	3.69	98.99	TR		FALSE
2002	B	4	12	3.99	98.74	TR		FALSE
2002	B	4	13	4.24	98.67	TR		FALSE
2002	B	4	14	4.30	98.75	WE		FALSE
2002	B	4	15	4.36	98.46	BR		FALSE
2002	B	4	16	4.66	98.47	TW1		FALSE
2002	B	4	17	4.69	98.63	TR		FALSE
2002	B	4	18	5.27	98.74	TR		FALSE
2002	B	4	19	5.82	98.66	TR		FALSE
2002	B	4	20	5.91	98.47	TW2		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	B	4	21	6.10	98.66	TR		FALSE
2002	B	4	22	6.31	98.60	TR		FALSE
2002	B	4	23	6.58	98.75	WE		FALSE
2002	B	4	24	6.83	98.84	BIS		FALSE
2002	B	4	25	6.95	99.42	BF		FALSE
2002	B	4	26	7.47	99.51	BS		FALSE
2002	B	4	27	7.47	100.01	TSR		FALSE
2002	B	5	1	0.00	100.00	TSL		FALSE
2002	B	5	2	0.00	99.60	BS		FALSE
2002	B	5	3	1.65	98.52	BF		FALSE
2002	B	5	4	2.04	98.27	BIS		FALSE
2002	B	5	5	3.32	97.99	BIS		FALSE
2002	B	5	6	3.75	97.90	WE		FALSE
2002	B	5	7	4.21	97.80	BIS		FALSE
2002	B	5	8	4.66	97.81	BIS		FALSE
2002	B	5	9	5.33	97.76	BIS		FALSE
2002	B	5	10	6.10	97.75	TW		FALSE
2002	B	5	11	6.92	97.90	WE		FALSE
2002	B	5	12	7.92	99.69	BIS		FALSE
2002	B	5	13	8.26	99.85	BS		FALSE
2002	B	5	14	8.26	100.00	TSR		FALSE
2002	B	6	1	0.00	100.00	TSL		FALSE
2002	B	6	2	0.00	99.96	BS		FALSE
2002	B	6	3	0.18	99.69	BIS		FALSE
2002	B	6	4	0.73	99.42	BIS		FALSE
2002	B	6	5	1.62	99.27	BIS		FALSE
2002	B	6	6	1.83	98.96	BF		FALSE
2002	B	6	7	2.38	98.76	BIS		FALSE
2002	B	6	8	2.99	98.42	WE		FALSE
2002	B	6	9	4.02	98.31	BIS		FALSE
2002	B	6	10	4.45	98.25	TW		FALSE
2002	B	6	11	5.15	98.32	BR		FALSE
2002	B	6	12	5.15	98.42	WE		FALSE
2002	B	6	13	5.43	98.65	TR	rock	TRUE
2002	B	6	14	5.70	98.55	BR		FALSE
2002	B	6	15	6.43	98.65	BIS		FALSE
2002	B	6	16	7.01	98.91	BF		FALSE
2002	B	6	17	7.99	99.87	BS		FALSE
2002	B	6	18	7.99	100.00	TSR		FALSE
2002	B	7	1	0.00	100.00	TSL		FALSE
2002	B	7	2	0.00	99.41	BS		FALSE
2002	B	7	3	1.13	98.93	TB		FALSE
2002	B	7	4	1.22	98.67	BF		FALSE
2002	B	7	5	1.28	98.55	BB		FALSE
2002	B	7	6	1.98	98.21	BIS		FALSE
2002	B	7	7	3.05	98.07	BIS		FALSE
2002	B	7	8	3.41	97.99	WE		FALSE
2002	B	7	9	4.15	97.78	TW		FALSE
2002	B	7	10	4.51	97.85	BIS		FALSE
2002	B	7	11	4.88	97.87	BIS		FALSE
2002	B	7	12	5.46	98.12	BIS		FALSE
2002	B	7	13	5.73	97.99	WE		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	B	7	14	5.94	98.17	BIS		FALSE
2002	B	7	15	6.40	98.34	BIS		FALSE
2002	B	7	16	6.46	98.67	BF		FALSE
2002	B	7	17	7.96	99.22	BIS		FALSE
2002	B	7	18	9.54	99.75	BS		FALSE
2002	B	7	19	9.54	100.02	TSR		FALSE
2002	B	8	1	0.00	100.00	TSL		FALSE
2002	B	8	2	0.00	99.55	BS		FALSE
2002	B	8	3	0.76	99.24	BF		FALSE
2002	B	8	4	0.79	98.84	BIS		FALSE
2002	B	8	5	1.46	98.79	WE		FALSE
2002	B	8	6	1.68	98.74	BIS		FALSE
2002	B	8	7	2.26	98.73	BIS		FALSE
2002	B	8	8	2.65	98.69	BIS		FALSE
2002	B	8	9	3.02	98.66	TW		FALSE
2002	B	8	10	3.60	98.76	BB		FALSE
2002	B	8	11	3.60	98.79	WE		FALSE
2002	B	8	12	3.72	99.07	BIS - Alder Roots		FALSE
2002	B	8	13	4.21	99.41	BF		FALSE
2002	B	8	14	5.55	99.65	BS		FALSE
2002	B	8	15	5.55	100.00	TSR		FALSE
2002	B	9	1	0.00	100.00	TSL		FALSE
2002	B	9	2	0.00	99.59	BS		FALSE
2002	B	9	3	0.34	99.16	BIS		FALSE
2002	B	9	4	0.58	99.07	BIS		FALSE
2002	B	9	5	0.76	97.89	BF		FALSE
2002	B	9	6	0.76	97.49	BIS		FALSE
2002	B	9	7	1.01	97.35	BB/WE		FALSE
2002	B	9	8	1.65	97.35	BIS		FALSE
2002	B	9	9	2.04	97.29	BIS		FALSE
2002	B	9	10	2.44	97.26	BIS		FALSE
2002	B	9	11	2.68	97.20	TW		FALSE
2002	B	9	12	3.02	97.21	BIS		FALSE
2002	B	9	13	3.66	97.35	WE		FALSE
2002	B	9	14	3.96	97.41	BIS		FALSE
2002	B	9	15	4.18	97.69	BIS		FALSE
2002	B	9	16	4.45	97.89	BF		FALSE
2002	B	9	17	6.07	98.21	BIS		FALSE
2002	B	9	18	6.98	98.33	BIS		FALSE
2002	B	9	19	7.62	98.59	BIS		FALSE
2002	B	9	20	9.72	98.49	BIS		FALSE
2002	B	9	21	10.94	98.59	BIS		FALSE
2002	B	9	22	13.78	99.93	BS		FALSE
2002	B	9	23	13.78	99.98	TSR		FALSE
2002	B	10	1	0.00	100.00	TSL		FALSE
2002	B	10	2	0.00	99.65	BS		FALSE
2002	B	10	3	0.18	99.57	TB		FALSE
2002	B	10	4	0.24	98.90	BIS		FALSE
2002	B	10	5	0.52	98.59	BIS		FALSE
2002	B	10	6	0.55	98.06	BF		FALSE
2002	B	10	7	0.55	97.74	BB		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	B	10	8	1.40	97.50	BIS		FALSE
2002	B	10	9	1.95	97.38	WE		FALSE
2002	B	10	10	2.50	97.23	BIS		FALSE
2002	B	10	11	3.17	97.23	TW		FALSE
2002	B	10	12	3.66	97.27	BIS		FALSE
2002	B	10	13	4.11	97.38	WE		FALSE
2002	B	10	14	5.46	97.70	BIS		FALSE
2002	B	10	15	5.49	98.06	BF		FALSE
2002	B	10	16	6.61	98.34	BIS		FALSE
2002	B	10	17	10.24	98.20	BIS		FALSE
2002	B	10	18	11.28	98.31	BIS		FALSE
2002	B	10	19	12.65	98.28	BIS		FALSE
2002	B	10	20	13.41	98.62	BIS		FALSE
2002	B	10	21	15.42	99.84	BS		FALSE
2002	B	10	22	15.42	100.00	TSR		FALSE
2002	C	1	1	0.00	100.00	TSL		FALSE
2002	C	1	2	0.00	99.51	BS		FALSE
2002	C	1	3	0.21	99.13	BIS		FALSE
2002	C	1	4	0.61	98.95	BIS		FALSE
2002	C	1	5	0.70	98.73	BF		FALSE
2002	C	1	6	1.71	98.68	BIS		FALSE
2002	C	1	7	2.26	98.48	BIS		FALSE
2002	C	1	8	2.44	98.46	WE		FALSE
2002	C	1	9	2.83	98.36	BIS		FALSE
2002	C	1	10	3.72	98.27	TW		FALSE
2002	C	1	11	4.45	98.40	BIS		FALSE
2002	C	1	12	4.88	98.35	BIS		FALSE
2002	C	1	13	5.40	98.45	BIS		FALSE
2002	C	1	14	5.79	98.49	WE		FALSE
2002	C	1	15	6.46	98.53	BIS		FALSE
2002	C	1	16	6.92	98.64	BF		FALSE
2002	C	1	17	7.86	98.79	BIS		FALSE
2002	C	1	18	8.44	98.94	BIS		FALSE
2002	C	1	19	8.78	99.07	BIS		FALSE
2002	C	1	20	10.82	98.91	BIS		FALSE
2002	C	1	21	11.34	99.10	BIS		FALSE
2002	C	1	22	11.55	99.18	BIS		FALSE
2002	C	1	23	12.04	99.31	BIS		FALSE
2002	C	1	24	12.62	99.60	BS		FALSE
2002	C	1	25	12.62	100.01	TSR		FALSE
2002	C	2	1	0.00	100.00	TSL		FALSE
2002	C	2	2	0.00	99.62	BS		FALSE
2002	C	2	3	0.37	99.45	BS		FALSE
2002	C	2	4	1.04	98.91	BIS		FALSE
2002	C	2	5	2.19	98.81	BIS		FALSE
2002	C	2	6	2.93	98.62	BIS		FALSE
2002	C	2	7	3.81	98.39	BIS		FALSE
2002	C	2	8	5.09	98.33	T Stump		FALSE
2002	C	2	9	5.09	98.13	BF		FALSE
2002	C	2	10	5.18	97.94	B Stump		FALSE
2002	C	2	11	5.33	97.91	BIS		FALSE
2002	C	2	12	5.49	97.91	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	C	2	13	5.79	97.87	BIS		FALSE
2002	C	2	14	6.19	97.81	WE		FALSE
2002	C	2	15	6.52	97.70	BIS		FALSE
2002	C	2	16	6.86	97.77	BIS		FALSE
2002	C	2	17	7.28	97.80	BIS		FALSE
2002	C	2	18	7.80	97.73	BIS		FALSE
2002	C	2	19	8.14	97.69	TW		FALSE
2002	C	2	20	8.38	97.73	BIS		FALSE
2002	C	2	21	8.81	97.74	BIS		FALSE
2002	C	2	22	9.14	97.75	BIS		FALSE
2002	C	2	23	9.48	97.81	WE		FALSE
2002	C	2	24	10.24	98.13	BF		FALSE
2002	C	2	25	10.52	98.22	BIS		FALSE
2002	C	2	26	12.38	98.29	B Stump		FALSE
2002	C	2	27	12.53	99.56	BS		FALSE
2002	C	2	28	12.53	100.00	TSR		FALSE
2002	C	3	1	0.00	100.00	TSL		FALSE
2002	C	3	2	0.00	99.69	BS		FALSE
2002	C	3	3	0.49	99.43	BIS		FALSE
2002	C	3	4	2.10	98.70	BIS		FALSE
2002	C	3	5	2.65	98.66	BIS		FALSE
2002	C	3	6	3.51	98.78	BIS		FALSE
2002	C	3	7	4.21	98.77	BIS		FALSE
2002	C	3	8	4.63	98.47	BF		FALSE
2002	C	3	9	4.88	98.36	BIS		FALSE
2002	C	3	10	5.12	98.40	BIS		FALSE
2002	C	3	11	5.52	98.36	BIS		FALSE
2002	C	3	12	6.04	98.38	BIS		FALSE
2002	C	3	13	6.83	98.25	WE		FALSE
2002	C	3	14	7.25	98.17	BIS		FALSE
2002	C	3	15	7.65	98.18	BIS		FALSE
2002	C	3	16	7.89	98.22	BIS		FALSE
2002	C	3	17	8.32	98.11	TW		FALSE
2002	C	3	18	8.69	98.20	BIS		FALSE
2002	C	3	19	9.14	98.17	BIS		FALSE
2002	C	3	20	9.75	98.25	WE		FALSE
2002	C	3	21	10.24	98.46	BF		FALSE
2002	C	3	22	10.39	98.65	BIS		FALSE
2002	C	3	23	12.44	99.04	BIS		FALSE
2002	C	3	24	14.02	99.70	BS		FALSE
2002	C	3	25	14.02	99.99	TSR		FALSE
2002	C	4	1	0.00	100.00	TSL		FALSE
2002	C	4	2	0.00	99.70	BS		FALSE
2002	C	4	3	0.58	99.50	BIS		FALSE
2002	C	4	4	0.91	98.97	T roots		FALSE
2002	C	4	5	1.98	98.77	T roots		FALSE
2002	C	4	6	2.01	98.50	B roots		FALSE
2002	C	4	7	3.17	98.41	BIS		FALSE
2002	C	4	8	3.66	98.54	BIS		FALSE
2002	C	4	9	3.93	98.60	BIS		FALSE
2002	C	4	10	4.24	98.57	BIS		FALSE
2002	C	4	11	4.51	98.45	BF		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	C	4	12	5.06	98.31	BIS		FALSE
2002	C	4	13	5.46	98.23	BIS		FALSE
2002	C	4	14	5.88	98.30	BIS		FALSE
2002	C	4	15	6.43	98.29	BIS		FALSE
2002	C	4	16	6.92	98.20	WE		FALSE
2002	C	4	17	7.47	98.08	BIS		FALSE
2002	C	4	18	7.83	98.11	BIS		FALSE
2002	C	4	19	8.11	98.12	BIS		FALSE
2002	C	4	20	8.47	98.09	BIS		FALSE
2002	C	4	21	8.90	98.13	BIS		FALSE
2002	C	4	22	9.33	98.20	WE		FALSE
2002	C	4	23	9.72	98.39	BF		FALSE
2002	C	4	24	10.12	98.85	BIS		FALSE
2002	C	4	25	11.55	98.97	BIS		FALSE
2002	C	4	26	11.89	99.67	BIS		FALSE
2002	C	4	27	12.04	99.73	BS		FALSE
2002	C	4	28	12.04	100.02	TSR		FALSE
2002	C	5	1	0.00	100.00	TSL		FALSE
2002	C	5	2	0.00	99.55	BS		FALSE
2002	C	5	3	0.67	99.35	BIS	elevation lowered 1.2 feet, likely on log dp	FALSE
2002	C	5	4	1.92	98.88	BIS		FALSE
2002	C	5	5	2.29	98.66	BIS		FALSE
2002	C	5	6	4.79	98.42	BF		FALSE
2002	C	5	7	4.94	98.47	BIS		FALSE
2002	C	5	8	6.49	98.38	BIS		FALSE
2002	C	5	9	6.64	98.32	BIS		FALSE
2002	C	5	10	7.22	98.24	WE		FALSE
2002	C	5	11	7.74	98.18	BIS		FALSE
2002	C	5	12	8.53	97.92	TW		FALSE
2002	C	5	13	9.36	98.24	WE		FALSE
2002	C	5	14	9.57	98.25	BIS		FALSE
2002	C	5	15	9.81	98.35	BF		FALSE
2002	C	5	16	10.21	98.76	BIS		FALSE
2002	C	5	17	11.40	98.75	BIS		FALSE
2002	C	5	18	11.80	99.05	BIS		FALSE
2002	C	5	19	12.38	99.48	BS		FALSE
2002	C	5	20	12.38	99.99	TSR		FALSE
2002	C	6	1	0.00	100.00	TSL		FALSE
2002	C	6	2	0.00	99.70	BS		FALSE
2002	C	6	3	0.55	99.10	BIS		FALSE
2002	C	6	4	2.23	98.74	BF		FALSE
2002	C	6	5	2.38	98.58	BIS		FALSE
2002	C	6	6	3.35	98.18	BIS		FALSE
2002	C	6	7	4.57	98.06	BIS		FALSE
2002	C	6	8	5.67	97.99	WE		FALSE
2002	C	6	9	6.07	97.88	TW		FALSE
2002	C	6	10	6.22	98.01	BIS		FALSE
2002	C	6	11	6.61	97.92	BIS		FALSE
2002	C	6	12	6.95	97.96	BIS		FALSE
2002	C	6	13	7.53	97.99	WE		FALSE
2002	C	6	14	8.78	98.35	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	C	6	15	8.99	98.72	BF	Tree Trunk Adjacent	FALSE
2002	C	6	16	10.06	98.75	BR		FALSE
2002	C	6	17	10.09	98.94	TR		FALSE
2002	C	6	18	10.64	99.08	TR		FALSE
2002	C	6	19	11.43	99.40	TR		FALSE
2002	C	6	20	11.67	99.29	TR		FALSE
2002	C	6	21	11.73	99.07	BR		FALSE
2002	C	6	22	11.95	99.00	BIS		FALSE
2002	C	6	23	12.16	99.00	BIS		FALSE
2002	C	6	24	12.53	99.21	BIS		FALSE
2002	C	6	25	13.05	99.71	BS		FALSE
2002	C	6	26	13.05	100.01	TSR		FALSE
2002	C	7	1	0.00	100.00	TSL		FALSE
2002	C	7	2	0.00	99.77	BS		FALSE
2002	C	7	3	0.73	99.43	BIS		FALSE
2002	C	7	4	1.22	98.90	BIS		FALSE
2002	C	7	5	2.38	98.84	BIS		FALSE
2002	C	7	6	2.41	98.63	BF		FALSE
2002	C	7	7	2.65	98.56	BIS		FALSE
2002	C	7	8	2.74	98.34	BIS		FALSE
2002	C	7	9	3.90	98.15	WE		FALSE
2002	C	7	10	4.48	98.06	BIS		FALSE
2002	C	7	11	5.24	97.97	TW		FALSE
2002	C	7	12	5.61	98.03	BIS		FALSE
2002	C	7	13	6.07	98.03	BIS		FALSE
2002	C	7	14	6.55	98.15	WE		FALSE
2002	C	7	15	6.89	98.34	BIS		FALSE
2002	C	7	16	7.56	98.74	BF		FALSE
2002	C	7	17	7.59	99.09	BIS		FALSE
2002	C	7	18	8.23	99.13	BL		FALSE
2002	C	7	19	8.23	99.25	TL		FALSE
2002	C	7	20	8.53	99.22	TL		FALSE
2002	C	7	21	8.56	99.00	BL		FALSE
2002	C	7	22	9.21	98.84	BIS		FALSE
2002	C	7	23	10.85	98.63	BIS		FALSE
2002	C	7	24	11.22	98.70	BIS		FALSE
2002	C	7	25	12.68	99.19	BIS		FALSE
2002	C	7	26	13.38	99.83	BS		FALSE
2002	C	7	27	13.38	100.02	TSR		FALSE
2002	C	8	1	0.00	100.00	TSL		FALSE
2002	C	8	2	0.00	99.55	BS		FALSE
2002	C	8	3	0.12	99.52	BIS		FALSE
2002	C	8	4	0.30	98.68	BF		FALSE
2002	C	8	5	0.37	98.34	BIS		FALSE
2002	C	8	6	0.64	98.23	BIS		FALSE
2002	C	8	7	1.68	97.99	BIS		FALSE
2002	C	8	8	2.13	97.88	WE		FALSE
2002	C	8	9	2.71	97.70	TW		FALSE
2002	C	8	10	3.02	97.73	BIS		FALSE
2002	C	8	11	3.78	97.75	BIS		FALSE
2002	C	8	12	4.15	97.81	BL		FALSE
2002	C	8	13	4.15	97.88	WE		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	C	8	14	4.18	98.21	TL		FALSE
2002	C	8	15	4.72	98.35	BIS		FALSE
2002	C	8	16	5.58	98.68	BF		FALSE
2002	C	8	17	5.76	99.09	BIS		FALSE
2002	C	8	18	8.99	98.84	BIS		FALSE
2002	C	8	19	9.14	98.89	BIS		FALSE
2002	C	8	20	9.63	98.76	BIS		FALSE
2002	C	8	21	10.33	98.76	BIS		FALSE
2002	C	8	22	10.79	98.60	BIS		FALSE
2002	C	8	23	11.89	98.60	BIS		FALSE
2002	C	8	24	12.98	98.95	BIS		FALSE
2002	C	8	25	13.72	99.51	BIS		FALSE
2002	C	8	26	14.05	99.66	BS		FALSE
2002	C	8	27	14.05	100.03	TSR		FALSE
2002	C	9	1	0.00	100.00	BS (temp) - must replace		FALSE
2002	C	9	2	0.30	98.86	BIS		FALSE
2002	C	9	3	0.85	98.42	BF		FALSE
2002	C	9	4	1.28	98.05	WE		FALSE
2002	C	9	5	1.77	97.92	BIS		FALSE
2002	C	9	6	2.13	97.85	BIS		FALSE
2002	C	9	7	2.53	97.91	BIS		FALSE
2002	C	9	8	2.93	98.03	BIS		FALSE
2002	C	9	9	3.60	97.98	BIS		FALSE
2002	C	9	10	4.11	97.97	BIS		FALSE
2002	C	9	11	4.45	97.77	TW		FALSE
2002	C	9	12	4.72	97.80	BIS		FALSE
2002	C	9	13	5.09	98.05	WE		FALSE
2002	C	9	14	5.94	98.42	BF		FALSE
2002	C	9	15	6.13	98.81	BIS		FALSE
2002	C	9	16	7.07	98.90	BIS		FALSE
2002	C	9	17	7.47	99.05	BIS		FALSE
2002	C	9	18	10.97	98.86	BIS		FALSE
2002	C	9	19	12.19	98.77	BIS		FALSE
2002	C	9	20	13.90	98.81	BIS		FALSE
2002	C	9	21	14.94	98.99	BIS		FALSE
2002	C	9	22	15.48	99.34	BIS		FALSE
2002	C	9	23	16.12	99.73	BS		FALSE
2002	C	9	24	16.12	99.94	TSR		FALSE
2002	C	10	1	0.00	100.00	TSL		FALSE
2002	C	10	2	0.00	99.75	BS		FALSE
2002	C	10	3	0.79	99.11	BIS		FALSE
2002	C	10	4	2.23	98.60	BIS		FALSE
2002	C	10	5	2.35	98.30	BF		FALSE
2002	C	10	6	2.41	98.06	BIS		FALSE
2002	C	10	7	3.26	98.17	BIS		FALSE
2002	C	10	8	4.39	97.89	BR		FALSE
2002	C	10	9	4.66	98.10	TR		FALSE
2002	C	10	10	4.94	97.57	WE		FALSE
2002	C	10	11	4.94	97.45	BR		FALSE
2002	C	10	12	5.79	97.39	BIS		FALSE
2002	C	10	13	6.10	97.39	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	C	10	14	7.35	97.36	TW		FALSE
2002	C	10	15	8.32	97.49	WE		FALSE
2002	C	10	16	9.02	97.82	BIS		FALSE
2002	C	10	17	10.09	98.11	BF		FALSE
2002	C	10	18	10.24	98.56	BIS		FALSE
2002	C	10	19	11.06	98.52	BIS		FALSE
2002	C	10	20	11.49	98.60	BIS		FALSE
2002	C	10	21	11.52	98.49	BIS		FALSE
2002	C	10	22	11.86	98.49	BIS		FALSE
2002	C	10	23	11.89	98.59	BIS		FALSE
2002	C	10	24	12.28	98.66	BIS		FALSE
2002	C	10	25	12.71	98.72	BIS		FALSE
2002	C	10	26	13.26	98.82	BIS		FALSE
2002	C	10	27	15.73	98.77	BIS		FALSE
2002	C	10	28	16.46	99.33	BIS		FALSE
2002	C	10	29	17.13	99.94	BS		FALSE
2002	C	10	30	17.13	99.98	TSR		FALSE
2002	D	1	1	0.00	100.00	TSL		FALSE
2002	D	1	2	0.00	99.82	BS		FALSE
2002	D	1	3	0.58	99.72	TB		FALSE
2002	D	1	4	0.82	99.25	BIS		FALSE
2002	D	1	5	0.88	98.66	BIS		FALSE
2002	D	1	6	1.13	98.52	BF		FALSE
2002	D	1	7	1.25	98.28	BIS		FALSE
2002	D	1	8	1.98	97.92	WE		FALSE
2002	D	1	9	2.62	97.86	BIS		FALSE
2002	D	1	10	3.17	97.78	BIS		FALSE
2002	D	1	11	3.47	97.69	TW		FALSE
2002	D	1	12	4.11	97.87	BR		FALSE
2002	D	1	13	4.11	97.92	WE		FALSE
2002	D	1	14	4.33	98.13	TR		FALSE
2002	D	1	15	4.79	98.15	BR		FALSE
2002	D	1	16	5.21	98.28	TR		FALSE
2002	D	1	17	5.73	98.28	BIS		FALSE
2002	D	1	18	6.28	98.48	BF		FALSE
2002	D	1	19	6.95	99.07	BIS		FALSE
2002	D	1	20	7.89	99.26	BIS		FALSE
2002	D	1	21	8.17	99.60	TB		FALSE
2002	D	1	22	9.60	99.71	BIS		FALSE
2002	D	1	23	10.12	99.96	BS		FALSE
2002	D	1	24	10.12	99.99	TS		FALSE
2002	D	2	1	0.00	100.00	TSL		FALSE
2002	D	2	2	0.00	99.70	BS		FALSE
2002	D	2	3	0.64	99.69	TB		FALSE
2002	D	2	4	0.79	99.29	BIS		FALSE
2002	D	2	5	1.16	99.16	BF		FALSE
2002	D	2	6	1.65	98.75	BIS		FALSE
2002	D	2	7	2.35	98.53	WE		FALSE
2002	D	2	8	2.96	98.49	BIS		FALSE
2002	D	2	9	3.14	98.48	BIS		FALSE
2002	D	2	10	3.35	98.45	BIS		FALSE
2002	D	2	11	3.63	98.47	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	D	2	12	4.15	98.43	TW		FALSE
2002	D	2	13	4.72	98.53	WE		FALSE
2002	D	2	14	5.27	98.70	BIS		FALSE
2002	D	2	15	5.79	98.94	BIS		FALSE
2002	D	2	16	6.58	99.16	BF		FALSE
2002	D	2	17	7.53	99.66	TB		FALSE
2002	D	2	18	9.39	99.76	BS		FALSE
2002	D	2	19	9.39	100.00	TSR		FALSE
2002	D	3	1	0.00	100.00	TSL		FALSE
2002	D	3	2	0.00	99.79	BS		FALSE
2002	D	3	3	0.52	99.69	BIS		FALSE
2002	D	3	4	1.13	99.78	TB		FALSE
2002	D	3	5	1.40	99.15	BF		FALSE
2002	D	3	6	1.65	98.81	BB		FALSE
2002	D	3	7	2.13	98.66	BIS		FALSE
2002	D	3	8	2.71	98.55	WE		FALSE
2002	D	3	9	2.83	98.50	BIS		FALSE
2002	D	3	10	3.05	98.52	BIS		FALSE
2002	D	3	11	3.72	98.37	TW		FALSE
2002	D	3	12	4.45	98.55	WE		FALSE
2002	D	3	13	4.85	98.61	BIS		FALSE
2002	D	3	14	5.09	99.16	BF		FALSE
2002	D	3	15	6.10	99.83	TB		FALSE
2002	D	3	16	6.92	99.88	BIS		FALSE
2002	D	3	17	7.16	99.24	BIS		FALSE
2002	D	3	18	7.80	99.10	BIS		FALSE
2002	D	3	19	8.29	99.23	BIS		FALSE
2002	D	3	20	10.45	99.43	BIS		FALSE
2002	D	3	21	11.03	99.88	BS		FALSE
2002	D	3	22	11.03	100.00	TSR		FALSE
2002	D	5	1	0.00	100.00	TSL		FALSE
2002	D	5	2	0.00	99.62	BS		FALSE
2002	D	5	3	0.37	99.46	TB		FALSE
2002	D	5	4	0.43	99.16	BIS		FALSE
2002	D	5	5	0.79	99.02	BIS		FALSE
2002	D	5	6	0.85	98.41	BF		FALSE
2002	D	5	7	0.85	98.32	BB		FALSE
2002	D	5	8	2.41	98.10	BIS		FALSE
2002	D	5	9	3.14	98.03	BIS		FALSE
2002	D	5	10	3.51	98.06	BIS		FALSE
2002	D	5	11	3.66	98.03	WE		FALSE
2002	D	5	12	4.21	97.90	BIS		FALSE
2002	D	5	13	4.63	97.96	BIS		FALSE
2002	D	5	14	5.21	98.03	WE		FALSE
2002	D	5	15	5.91	98.32	BIS		FALSE
2002	D	5	16	6.64	98.60	BR		FALSE
2002	D	5	17	6.89	98.94	TR		FALSE
2002	D	5	18	7.22	99.05	TR		FALSE
2002	D	5	19	7.25	98.84	BR		FALSE
2002	D	5	20	7.77	98.98	BIS		FALSE
2002	D	5	21	7.96	99.39	TB		FALSE
2002	D	5	22	9.42	99.69	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	D	5	23	10.00	99.59	BIS		FALSE
2002	D	5	24	10.82	99.56	BS		FALSE
2002	D	5	25	10.82	100.00	TSR		FALSE
2002	D	6	1	0.00	100.00	TSL		FALSE
2002	D	6	2	0.00	99.84	BS		FALSE
2002	D	6	3	0.85	99.60	TB		FALSE
2002	D	6	4	0.94	98.46	BB		FALSE
2002	D	6	5	2.74	98.00	BF		FALSE
2002	D	6	6	3.29	97.69	BIS		FALSE
2002	D	6	7	3.78	97.58	WE		FALSE
2002	D	6	8	4.27	97.48	TW		FALSE
2002	D	6	9	5.15	97.63	BIS		FALSE
2002	D	6	10	5.30	97.63	BIS		FALSE
2002	D	6	11	5.91	97.52	BIS		FALSE
2002	D	6	12	6.31	97.48	B Rootwad		FALSE
2002	D	6	13	6.95	97.58	WE		FALSE
2002	D	6	14	7.01	97.89	B Rootwad		FALSE
2002	D	6	15	7.35	97.95	BB/BF		FALSE
2002	D	6	16	7.47	98.38	BIS		FALSE
2002	D	6	17	7.77	98.66	BIS		FALSE
2002	D	6	18	8.50	99.32	TB		FALSE
2002	D	6	19	9.08	99.34	BIS		FALSE
2002	D	6	20	10.03	99.66	BS		FALSE
2002	D	6	21	10.03	100.00	TSR		FALSE
2002	D	7	1	0.00	100.00	TSL		FALSE
2002	D	7	2	0.00	99.75	BS		FALSE
2002	D	7	3	0.24	99.65	TB		FALSE
2002	D	7	4	0.34	98.99	BIS		FALSE
2002	D	7	5	0.52	98.90	BIS		FALSE
2002	D	7	6	1.16	98.50	BIS		FALSE
2002	D	7	7	1.89	98.32	BF		FALSE
2002	D	7	8	2.53	97.86	BIS		FALSE
2002	D	7	9	2.71	97.85	WE		FALSE
2002	D	7	10	3.54	97.64	TW		FALSE
2002	D	7	11	4.33	97.72	BIS		FALSE
2002	D	7	12	4.54	97.85	WE		FALSE
2002	D	7	13	5.12	97.89	BIS		FALSE
2002	D	7	14	5.70	97.95	BIS		FALSE
2002	D	7	15	6.25	97.85	BB		FALSE
2002	D	7	16	6.31	98.87	BIS		FALSE
2002	D	7	17	6.77	99.23	BIS		FALSE
2002	D	7	18	7.22	99.43	BIS		FALSE
2002	D	7	19	7.71	99.77	BS		FALSE
2002	D	7	20	7.71	99.99	TSR		FALSE
2002	D	8	1	0.00	100.00	TSL		FALSE
2002	D	8	2	0.00	99.71	BS		FALSE
2002	D	8	3	0.91	99.23	TB		FALSE
2002	D	8	4	1.25	98.55	BIS		FALSE
2002	D	8	5	1.31	98.22	BF		FALSE
2002	D	8	6	1.34	97.91	BB		FALSE
2002	D	8	7	1.83	97.84	WE		FALSE
2002	D	8	8	2.19	97.75	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	D	8	9	2.59	97.68	TW		FALSE
2002	D	8	10	2.99	97.74	BIS		FALSE
2002	D	8	11	3.20	97.84	BIS		FALSE
2002	D	8	12	3.41	97.80	BIS		FALSE
2002	D	8	13	3.54	97.84	WE		FALSE
2002	D	8	14	4.57	97.91	BIS		FALSE
2002	D	8	15	5.12	97.99	BIS		FALSE
2002	D	8	16	5.97	98.22	BF		FALSE
2002	D	8	17	6.40	98.68	BB		FALSE
2002	D	8	18	6.52	99.71	TB		FALSE
2002	D	8	19	6.95	99.76	BS		FALSE
2002	D	8	20	6.95	100.00	TSR		FALSE
2002	D	9	1	0.00	100.00	TSL		FALSE
2002	D	9	2	0.00	99.75	BS		FALSE
2002	D	9	3	0.70	98.73	BF		FALSE
2002	D	9	4	1.25	98.51	BIS		FALSE
2002	D	9	5	1.62	98.48	WE		FALSE
2002	D	9	6	1.98	98.43	BIS		FALSE
2002	D	9	7	2.38	98.43	BIS		FALSE
2002	D	9	8	2.77	98.48	BIS		FALSE
2002	D	9	9	3.41	98.26	TW		FALSE
2002	D	9	10	3.96	98.31	BIS		FALSE
2002	D	9	11	4.42	98.42	WE		FALSE
2002	D	9	12	4.85	98.51	BIS		FALSE
2002	D	9	13	5.52	98.77	BF		FALSE
2002	D	9	14	7.01	98.89	BB		FALSE
2002	D	9	15	7.47	99.09	BIS		FALSE
2002	D	9	16	7.92	99.72	BS		FALSE
2002	D	9	17	7.92	100.00	TSR		FALSE
2002	D	10	1	0.00	100.00	TSL		FALSE
2002	D	10	2	0.00	99.66	BS		FALSE
2002	D	10	3	0.52	99.15	BIS		FALSE
2002	D	10	4	1.52	98.84	BIS		FALSE
2002	D	10	5	1.58	98.47	BF		FALSE
2002	D	10	6	2.71	98.37	BIS		FALSE
2002	D	10	7	2.99	98.24	WE		FALSE
2002	D	10	8	3.35	98.22	BIS		FALSE
2002	D	10	9	3.63	98.03	TW		FALSE
2002	D	10	10	4.24	98.12	BIS		FALSE
2002	D	10	11	4.75	98.21	BIS		FALSE
2002	D	10	12	4.75	98.24	WE		FALSE
2002	D	10	13	5.49	98.33	BIS		FALSE
2002	D	10	14	6.34	98.45	BF		FALSE
2002	D	10	15	6.68	98.55	BIS		FALSE
2002	D	10	16	7.44	99.75	BS		FALSE
2002	D	10	17	7.44	99.99	TSR		FALSE
2002	E	1	1	0.00	100.00	Top X 1 L Reb/low	incorrect-same as 2004	TRUE
2002	E	1	2	0.00	99.62	Bot X 1 L Re- b/low	incorrect-same as 2004	TRUE
2002	E	1	3	0.91	99.25	TOB	incorrect-same as 2004	TRUE
2002	E	1	4	2.74	98.86	BIS	incorrect-same as 2004	TRUE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	E	1	5	4.15	98.64	BF	incorrect-same as 2004	TRUE
2002	E	1	6	6.10	98.12	EW	incorrect-same as 2004	TRUE
2002	E	1	7	6.25	98.02	TW	incorrect-same as 2004	TRUE
2002	E	1	8	6.77	98.10	EW	incorrect-same as 2004	TRUE
2002	E	1	9	7.19	99.65	BIS	incorrect-same as 2004	TRUE
2002	E	1	10	7.50	99.84	Top X 1 R	incorrect-same as 2004	TRUE
						Reb/low		
2002	E	1	11	7.50	99.89	Bot X 1 R	incorrect-same as 2004	TRUE
						Reb/low		
2002	E	2	1	0.00	100.00	Top X 2 L	incorrect-same as 2004	TRUE
						Reb/low		
2002	E	2	2	0.00	99.42	Bot X 2 L Re-	incorrect-same as 2004	TRUE
						b/low		
2002	E	2	3	0.98	98.52	BIS	incorrect-same as 2004	TRUE
2002	E	2	4	1.98	98.34	EW	incorrect-same as 2004	TRUE
2002	E	2	5	2.80	98.25	TW	incorrect-same as 2004	TRUE
2002	E	2	6	3.17	98.38	EW	incorrect-same as 2004	TRUE
2002	E	2	7	4.45	98.95	BF	incorrect-same as 2004	TRUE
2002	E	2	8	5.21	99.39	TOB	incorrect-same as 2004	TRUE
2002	E	2	9	5.82	99.65	Top X 2 R	incorrect-same as 2004	TRUE
						Reb/low		
2002	E	2	10	5.82	100.01	Bot X 2 R	incorrect-same as 2004	TRUE
						Reb/low		
2002	E	3	1	0.00	100.00		TSL	FALSE
2002	E	3	2	0.00	99.51		BS	FALSE
2002	E	3	3	0.46	99.11		BIS	FALSE
2002	E	3	4	1.80	98.38		BF	FALSE
2002	E	3	5	1.83	97.92		WE	FALSE
2002	E	3	6	2.10	97.95		BB	FALSE
2002	E	3	7	2.13	98.04		BR	FALSE
2002	E	3	8	2.44	98.13		TR	FALSE
2002	E	3	9	3.05	98.13		TR	FALSE
2002	E	3	10	3.11	97.87		BR	FALSE
2002	E	3	11	3.57	97.75		TW	FALSE
2002	E	3	12	3.93	97.92		WE	FALSE
2002	E	3	13	4.57	98.23		BIS	FALSE
2002	E	3	14	5.24	98.46		BF	FALSE
2002	E	3	15	5.46	98.91		BIS	FALSE
2002	E	3	16	5.91	99.04		BIS	FALSE
2002	E	3	17	7.07	99.18		BIS	FALSE
2002	E	3	18	7.10	99.42		BIS	FALSE
2002	E	3	19	7.32	99.43		BS	FALSE
2002	E	3	20	7.32	100.01		TSR	FALSE
2002	E	4	1	0.00	100.00	Top X 4 L	Same as 2004	TRUE
						Reb/low		
2002	E	4	2	0.00	99.00	Bot X 4 L Re-		TRUE
						b/low		
2002	E	4	3	0.61	98.68	BIS		TRUE
2002	E	4	4	1.16	98.06	BIS		TRUE
2002	E	4	5	1.58	97.97	BIS		TRUE
2002	E	4	6	2.38	97.92	EW		TRUE
2002	E	4	7	2.74	97.86	TW		TRUE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	E	4	8	3.05	97.85	BIS *left side of rock in creek		TRUE
2002	E	4	9	3.96	97.88	BIS *osland sand bar on center		TRUE
2002	E	4	10	4.54	97.78	BIS *to right of rock, edge of sand bar		TRUE
2002	E	4	11	4.88	97.80	EW		TRUE
2002	E	4	12	5.06	97.95	BIS		TRUE
2002	E	4	13	5.61	98.04	BF		TRUE
2002	E	4	14	5.88	98.72	TOB		TRUE
2002	E	4	15	7.71	99.03	Top X 4 R Reb/low		TRUE
2002	E	4	16	7.71	99.29	Bot X 4 R Reb/low		TRUE
2002	E	5	1	0.00	100.00	Top X 5 L Reb/low		TRUE
2002	E	5	2	0.00	99.67	Bot X 5 L Re- b/low		TRUE
2002	E	5	3	0.94	99.43	BIS		TRUE
2002	E	5	4	1.65	98.93	BIS		TRUE
2002	E	5	5	2.77	98.66	EW		TRUE
2002	E	5	6	3.51	98.53	TW		TRUE
2002	E	5	7	3.99	98.51	BIS *pool in creek		TRUE
2002	E	5	8	4.27	98.57	EW *left side of rock		TRUE
2002	E	5	9	4.72	99.22	BF		TRUE
2002	E	5	10	5.73	99.73	TOB		TRUE
2002	E	5	11	7.89	99.89	Bot X 5 R Reb/low		TRUE
2002	E	5	12	7.89	100.30	Top X 5 R Reb/low		TRUE
2002	E	6	1	0.00	100.00	Top X 6 L Reb/low		TRUE
2002	E	6	2	0.00	99.54	Bot X 6 L Re- b/low		TRUE
2002	E	6	3	0.15	99.44	BIS		TRUE
2002	E	6	4	0.61	98.78	BIS		TRUE
2002	E	6	5	1.16	98.34	EW *next to rock		TRUE
2002	E	6	6	1.83	98.24	TW		TRUE
2002	E	6	7	2.62	98.37	EW *next to rock		TRUE
2002	E	6	8	3.51	98.57	BIS		TRUE
2002	E	6	9	4.08	98.52	BIS		TRUE
2002	E	6	10	4.36	98.77	BF		TRUE
2002	E	6	11	4.69	99.45	TOB		TRUE
2002	E	6	12	5.36	99.63	Bot X 6 R Reb/low		TRUE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	E	6	13	5.36	100.00	Top X 6 R		TRUE
						Reb/low		
2002	E	7	1	0.00	100.00		TSL	FALSE
2002	E	7	2	0.00	99.73		BS	FALSE
2002	E	7	3	0.88	99.34		BF	FALSE
2002	E	7	4	0.91	98.87		BB	FALSE
2002	E	7	5	1.43	98.62		WE	FALSE
2002	E	7	6	1.43	98.54		BIS	FALSE
2002	E	7	7	1.65	98.55		BIS	FALSE
2002	E	7	8	1.98	98.38		TW	FALSE
2002	E	7	9	2.16	98.42		BR	FALSE
2002	E	7	10	2.38	98.62		TR	FALSE
2002	E	7	11	2.71	98.68		TR	FALSE
2002	E	7	12	2.74	98.50		BR	FALSE
2002	E	7	13	3.20	98.46		BIS	FALSE
2002	E	7	14	3.93	98.55		BR	FALSE
2002	E	7	15	3.93	98.62		WE	FALSE
2002	E	7	16	3.93	98.68		TR	FALSE
2002	E	7	17	4.15	98.71		TR	FALSE
2002	E	7	18	4.57	98.99		BB	FALSE
2002	E	7	19	4.60	99.34		BF	FALSE
2002	E	7	20	4.60	99.59		TB	FALSE
2002	E	7	21	6.43	99.65		BS	FALSE
2002	E	7	22	6.43	100.00		TSR	FALSE
2002	E	8	1	0.00	100.00		TSL	FALSE
2002	E	8	2	0.00	99.61		BS	FALSE
2002	E	8	3	0.76	99.19		BF	FALSE
2002	E	8	4	0.88	98.73		BIS	FALSE
2002	E	8	5	1.04	98.66		WE	FALSE
2002	E	8	6	1.28	98.59		BIS	FALSE
2002	E	8	7	2.13	98.58		BIS	FALSE
2002	E	8	8	2.65	98.55		TW	FALSE
2002	E	8	9	2.90	98.62		BIS	FALSE
2002	E	8	10	3.38	98.66		WE	FALSE
2002	E	8	11	3.99	98.82		BB	FALSE
2002	E	8	12	4.08	99.19		BF	FALSE
2002	E	8	13	4.08	99.31		TB	FALSE
2002	E	8	14	4.51	99.54		BIS	FALSE
2002	E	8	15	6.58	99.72		BS	FALSE
2002	E	8	16	6.58	99.99		TSR	FALSE
2002	E	9	1	0.00	100.00		TSL	FALSE
2002	E	9	2	0.00	99.50		BS	FALSE
2002	E	9	3	0.91	98.73		BIS	FALSE
2002	E	9	4	0.98	98.42		BIS	FALSE
2002	E	9	5	1.49	98.00		BF	FALSE
2002	E	9	6	2.44	97.74		BIS	FALSE
2002	E	9	7	2.59	97.68		WE	FALSE
2002	E	9	8	3.14	97.60		BIS	FALSE
2002	E	9	9	3.69	97.60		BIS	FALSE
2002	E	9	10	4.18	97.59		BIS	FALSE
2002	E	9	11	4.42	97.59		TW	FALSE
2002	E	9	12	4.57	97.67		BIS	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	E	9	13	4.79	97.68		WE	FALSE
2002	E	9	14	5.79	97.85		BIS	FALSE
2002	E	9	15	6.43	97.99		BF	FALSE
2002	E	9	16	6.83	98.30		BIS	FALSE
2002	E	9	17	7.16	98.52		BIS	FALSE
2002	E	9	18	7.19	98.90		BIS	FALSE
2002	E	9	19	7.56	99.02		BIS	FALSE
2002	E	9	20	7.86	99.64		BIS	FALSE
2002	E	9	21	8.05	99.68		BS	FALSE
2002	E	9	22	8.05	99.98		TSR	FALSE
2002	E	10	1	0.00	100.00		TSL	FALSE
2002	E	10	2	0.00	99.65		BS	FALSE
2002	E	10	3	0.49	99.37		BIS	FALSE
2002	E	10	4	0.55	98.82		BIS	FALSE
2002	E	10	5	1.04	98.45		BF	FALSE
2002	E	10	6	1.25	98.26		BIS	FALSE
2002	E	10	7	1.80	98.13		BR	FALSE
2002	E	10	8	2.01	98.37		TR	FALSE
2002	E	10	9	2.32	98.38		TR	FALSE
2002	E	10	10	2.59	98.22		WE	FALSE
2002	E	10	11	2.59	98.02		BR	FALSE
2002	E	10	12	3.02	97.99		TW	FALSE
2002	E	10	13	3.63	98.22		WE	FALSE
2002	E	10	14	3.81	98.18		BB	FALSE
2002	E	10	15	3.87	98.36		BIS	FALSE
2002	E	10	16	4.94	98.61		BF	FALSE
2002	E	10	17	5.06	99.07		BIS	FALSE
2002	E	10	18	6.00	99.54		BIS	FALSE
2002	E	10	19	7.01	99.93		BS	FALSE
2002	E	10	20	7.01	100.24		TSR	FALSE
2002	F	1	1	0.00	100.00	TSL		FALSE
2002	F	1	2	0.00	99.98	BS		FALSE
2002	F	1	3	1.01	99.12	BIS		FALSE
2002	F	1	4	1.52	99.00	B Rootwad		FALSE
2002	F	1	5	1.71	99.41	T Rootwad		FALSE
2002	F	1	6	2.38	99.08	T Rootwad		FALSE
2002	F	1	7	2.41	98.88	B Rootwad		FALSE
2002	F	1	8	3.17	98.32	BF		FALSE
2002	F	1	9	4.18	98.30	BIS		FALSE
2002	F	1	10	5.12	98.07	BR		FALSE
2002	F	1	11	5.33	98.30	TR		FALSE
2002	F	1	12	5.67	98.00	WE		FALSE
2002	F	1	13	6.04	97.86	BR/TW		FALSE
2002	F	1	14	6.10	97.93	BR		FALSE
2002	F	1	15	6.10	98.00	WE		FALSE
2002	F	1	16	6.16	98.10	TR		FALSE
2002	F	1	17	6.49	98.05	BIS		FALSE
2002	F	1	18	6.74	98.18	BIS		FALSE
2002	F	1	19	7.13	98.15	BIS		FALSE
2002	F	1	20	7.80	98.38	BF		FALSE
2002	F	1	21	8.32	98.70	BIS		FALSE
2002	F	1	22	9.45	99.71	BS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	F	1	23	9.45	99.79	TSR		FALSE
2002	F	2	1	0.00	100.00	TSL		FALSE
2002	F	2	2	0.00	99.84	BS		FALSE
2002	F	2	3	0.85	99.12	BIS		FALSE
2002	F	2	4	2.62	98.42	BIS		FALSE
2002	F	2	5	2.65	98.03	BF		FALSE
2002	F	2	6	3.54	97.70	BIS		FALSE
2002	F	2	7	4.45	97.49	WE		FALSE
2002	F	2	8	4.91	97.30	TW		FALSE
2002	F	2	9	5.79	97.49	WE		FALSE
2002	F	2	10	6.28	97.50	BIS		FALSE
2002	F	2	11	7.13	97.83	BF		FALSE
2002	F	2	12	8.11	98.46	BB		FALSE
2002	F	2	13	8.44	99.50	BIS		FALSE
2002	F	2	14	8.75	99.82	BS		FALSE
2002	F	2	15	8.75	99.89	TSR		FALSE
2002	F	3	1	0.00	100.00	TSL		FALSE
2002	F	3	2	0.00	99.92	BS		FALSE
2002	F	3	3	0.88	99.38	TB		FALSE
2002	F	3	4	1.22	98.59	BB/BF		FALSE
2002	F	3	5	2.83	98.39	BIS		FALSE
2002	F	3	6	3.69	98.03	WE		FALSE
2002	F	3	7	3.96	97.95	BIS		FALSE
2002	F	3	8	4.11	97.97	BIS		FALSE
2002	F	3	9	4.27	98.03	BR		FALSE
2002	F	3	10	4.27	98.21	TR		FALSE
2002	F	3	11	4.60	98.19	TR		FALSE
2002	F	3	12	4.60	97.97	BR		FALSE
2002	F	3	13	4.91	98.03	WE		FALSE
2002	F	3	14	5.64	98.15	BIS		FALSE
2002	F	3	15	6.19	98.65	BF		FALSE
2002	F	3	16	7.01	98.79	BIS		FALSE
2002	F	3	17	7.32	99.77	BIS		FALSE
2002	F	3	18	7.80	100.05	BS		FALSE
2002	F	3	19	7.80	100.09	TSR		FALSE
2002	F	4	1	0.00	100.00	TSL		FALSE
2002	F	4	2	0.00	99.96	BS		FALSE
2002	F	4	3	1.34	99.13	BIS		FALSE
2002	F	4	4	2.38	97.96	BF		FALSE
2002	F	4	5	3.14	97.71	BIS		FALSE
2002	F	4	6	3.60	97.71	BIS		FALSE
2002	F	4	7	4.15	97.57	WE		FALSE
2002	F	4	8	4.48	97.52	BR		FALSE
2002	F	4	9	4.48	97.73	TR		FALSE
2002	F	4	10	4.57	97.71	TR		FALSE
2002	F	4	11	4.63	97.44	BR		FALSE
2002	F	4	12	5.30	97.33	BIS		FALSE
2002	F	4	13	6.13	97.41	BB		FALSE
2002	F	4	14	6.22	97.57	WE		FALSE
2002	F	4	15	6.22	97.64	BIS		FALSE
2002	F	4	16	6.74	98.00	BF		FALSE
2002	F	4	17	7.47	99.13	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	F	4	18	8.02	99.57	BIS		FALSE
2002	F	4	19	8.90	99.91	BS		FALSE
2002	F	4	20	8.90	100.11	TSR		FALSE
2002	F	5	1	0.00	100.00	TSL		FALSE
2002	F	5	2	0.00	99.96	BS		FALSE
2002	F	5	3	0.76	99.24	BIS		FALSE
2002	F	5	4	1.95	98.59	BF		FALSE
2002	F	5	5	2.44	98.60	BIS		FALSE
2002	F	5	6	2.53	98.42	BIS		FALSE
2002	F	5	7	3.29	98.27	WE		FALSE
2002	F	5	8	3.66	98.20	TW		FALSE
2002	F	5	9	3.93	98.26	BIS		FALSE
2002	F	5	10	4.05	98.33	TR		FALSE
2002	F	5	11	4.15	98.25	BIS		FALSE
2002	F	5	12	4.66	98.20	BIS		FALSE
2002	F	5	13	4.75	98.27	WE/BR		FALSE
2002	F	5	14	4.94	98.40	TR		FALSE
2002	F	5	15	5.49	98.49	TR		FALSE
2002	F	5	16	6.04	98.43	BIS		FALSE
2002	F	5	17	6.49	98.87	BIS		FALSE
2002	F	5	18	6.86	99.01	BIS		FALSE
2002	F	5	19	7.38	99.38	BIS		FALSE
2002	F	5	20	7.71	99.82	BS		FALSE
2002	F	5	21	7.71	99.88	TSR		FALSE
2002	F	6	1	0.00	100.00	TSL		FALSE
2002	F	6	2	0.00	99.95	BS		FALSE
2002	F	6	3	0.37	99.85	BIS		FALSE
2002	F	6	4	1.13	99.12	BIS		FALSE
2002	F	6	5	2.01	98.49	BF		FALSE
2002	F	6	6	2.59	98.40	BIS		FALSE
2002	F	6	7	2.74	98.35	BIS		FALSE
2002	F	6	8	3.17	98.16	WE		FALSE
2002	F	6	9	3.66	98.06	BIS		FALSE
2002	F	6	10	4.15	98.09	BIS		FALSE
2002	F	6	11	4.48	98.02	TW		FALSE
2002	F	6	12	4.75	98.10	BIS		FALSE
2002	F	6	13	4.94	98.09	BIS		FALSE
2002	F	6	14	5.03	98.12	BR		FALSE
2002	F	6	15	5.03	98.16	WE		FALSE
2002	F	6	16	5.24	98.84	TR		FALSE
2002	F	6	17	6.22	98.92	TR		FALSE
2002	F	6	18	6.34	99.08	BIS		FALSE
2002	F	6	19	7.44	99.29	BIS		FALSE
2002	F	6	20	8.20	99.55	BIS		FALSE
2002	F	6	21	8.63	99.82	BS		FALSE
2002	F	6	22	8.63	99.93	TSR		FALSE
2002	F	7	1	0.00	100.00	TSL		FALSE
2002	F	7	2	0.00	99.97	BS		FALSE
2002	F	7	3	0.30	99.73	BIS		FALSE
2002	F	7	4	0.67	99.16	BIS		FALSE
2002	F	7	5	1.19	98.86	BIS		FALSE
2002	F	7	6	1.25	98.67	BF		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	F	7	7	1.68	98.49	BIS		FALSE
2002	F	7	8	2.10	98.42	WE		FALSE
2002	F	7	9	2.38	98.31	TW		FALSE
2002	F	7	10	2.65	98.33	BIS		FALSE
2002	F	7	11	3.20	98.42	WE		FALSE
2002	F	7	12	3.44	98.50	BIS		FALSE
2002	F	7	13	4.02	98.54	BR		FALSE
2002	F	7	14	4.05	98.73	TR		FALSE
2002	F	7	15	4.45	98.86	TR		FALSE
2002	F	7	16	4.48	98.77	BR		FALSE
2002	F	7	17	5.15	98.87	BR		FALSE
2002	F	7	18	5.52	99.18	TR	root not surveyed elsewhere, excluded	TRUE
2002	F	7	19	5.58	99.00	BR		FALSE
2002	F	7	20	6.71	99.26	BIS		FALSE
2002	F	7	21	7.65	99.40	BIS		FALSE
2002	F	7	22	8.14	99.56	BIS		FALSE
2002	F	7	23	8.38	99.68	BIS		FALSE
2002	F	7	24	8.72	99.85	BS		FALSE
2002	F	7	25	8.72	99.94	TSR		FALSE
2002	F	8	1	0.00	100.00	TSL		FALSE
2002	F	8	2	0.00	99.90	BS		FALSE
2002	F	8	3	0.27	99.79	BIS		FALSE
2002	F	8	4	0.61	99.41	BIS		FALSE
2002	F	8	5	0.91	99.27	BIS		FALSE
2002	F	8	6	1.16	98.60	BIS		FALSE
2002	F	8	7	1.62	98.20	BF/TR		FALSE
2002	F	8	8	2.35	98.21	TR		FALSE
2002	F	8	9	2.65	97.74	BR		FALSE
2002	F	8	10	2.87	97.83	BIS		FALSE
2002	F	8	11	3.20	97.78	WE		FALSE
2002	F	8	12	3.26	97.91	TR		FALSE
2002	F	8	13	3.51	97.73	BR		FALSE
2002	F	8	14	3.60	97.69	BIS		FALSE
2002	F	8	15	3.93	97.68	BIS		FALSE
2002	F	8	16	4.60	97.77	WE		FALSE
2002	F	8	17	4.85	97.81	BIS		FALSE
2002	F	8	18	5.24	98.36	BF		FALSE
2002	F	8	19	5.85	98.52	BIS		FALSE
2002	F	8	20	6.46	98.56	BIS		FALSE
2002	F	8	21	7.62	98.77	BIS		FALSE
2002	F	8	22	8.66	98.63	BIS		FALSE
2002	F	8	23	9.24	98.78	BIS		FALSE
2002	F	8	24	9.45	99.09	BIS		FALSE
2002	F	8	25	9.97	99.33	BIS		FALSE
2002	F	8	26	11.13	99.67	BIS		FALSE
2002	F	8	27	11.43	99.80	BIS		FALSE
2002	F	8	28	12.83	99.84	BS		FALSE
2002	F	8	29	12.83	100.02	TSR		FALSE
2002	F	9	1	0.00	100.00	TSL		FALSE
2002	F	9	2	0.00	99.87	BS		FALSE
2002	F	9	3	0.27	99.67	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	F	9	4	0.37	99.29	BIS		FALSE
2002	F	9	5	0.79	99.06	BIS		FALSE
2002	F	9	6	1.22	98.81	BF		FALSE
2002	F	9	7	1.58	98.72	BIS		FALSE
2002	F	9	8	2.23	98.50	WE		FALSE
2002	F	9	9	2.65	98.45	BR		FALSE
2002	F	9	10	2.74	98.59	TR		FALSE
2002	F	9	11	3.02	98.57	TR		FALSE
2002	F	9	12	3.05	98.44	BR		FALSE
2002	F	9	13	3.35	98.34	TW		FALSE
2002	F	9	14	3.66	98.42	BIS		FALSE
2002	F	9	15	3.87	98.43	BB		FALSE
2002	F	9	16	3.87	98.50	WE		FALSE
2002	F	9	17	3.99	98.87	BF		FALSE
2002	F	9	18	4.48	99.06	TB		FALSE
2002	F	9	19	5.33	99.20	BIS		FALSE
2002	F	9	20	5.33	99.35	BIS		FALSE
2002	F	9	21	6.49	99.27	BIS		FALSE
2002	F	9	22	6.83	99.06	BIS		FALSE
2002	F	9	23	7.16	99.03	BIS		FALSE
2002	F	9	24	7.99	99.13	BIS		FALSE
2002	F	9	25	9.63	99.04	BIS		FALSE
2002	F	9	26	9.94	99.09	BIS		FALSE
2002	F	9	27	10.03	99.54	BIS		FALSE
2002	F	9	28	10.49	99.57	BIS		FALSE
2002	F	9	29	11.25	99.78	BS		FALSE
2002	F	9	30	11.25	99.97	TSR		FALSE
2002	F	10	1	0.00	100.00	TSL		FALSE
2002	F	10	2	0.00	99.83	BS		FALSE
2002	F	10	3	0.30	98.95	BF		FALSE
2002	F	10	4	0.88	98.78	BIS		FALSE
2002	F	10	5	1.46	98.40	WE		FALSE
2002	F	10	6	1.95	98.26	BIS		FALSE
2002	F	10	7	2.29	98.26	BIS		FALSE
2002	F	10	8	2.56	98.31	BIS		FALSE
2002	F	10	9	2.65	98.40	WE		FALSE
2002	F	10	10	3.20	98.43	BIS		FALSE
2002	F	10	11	3.44	98.64	BIS		FALSE
2002	F	10	12	3.93	98.68	BIS		FALSE
2002	F	10	13	4.18	98.80	BIS		FALSE
2002	F	10	14	4.48	99.14	BF		FALSE
2002	F	10	15	4.79	99.25	BIS		FALSE
2002	F	10	16	5.85	99.16	BIS		FALSE
2002	F	10	17	6.64	99.16	BIS		FALSE
2002	F	10	18	6.95	99.04	BIS		FALSE
2002	F	10	19	7.38	99.13	BIS		FALSE
2002	F	10	20	7.77	99.04	BIS		FALSE
2002	F	10	21	8.26	99.01	BIS		FALSE
2002	F	10	22	9.11	98.88	BIS		FALSE
2002	F	10	23	9.27	99.38	BIS		FALSE
2002	F	10	24	9.51	99.59	BIS		FALSE
2002	F	10	25	9.81	99.65	BS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2002	F	10	26	9.81	99.79	TSR		FALSE
2003	A	1	1	0.00	99.82	BOT X1L		FALSE
						REB/LOW		
2003	A	1	2	0.01	99.77	GRND XS1		FALSE
						REBAR		
2003	A	1	3	0.52	99.60	GB		FALSE
2003	A	1	4	1.35	99.43	TOP BANK		FALSE
2003	A	1	5	2.34	99.29	GB		FALSE
2003	A	1	6	3.13	99.20	GB		FALSE
2003	A	1	7	3.52	98.90	GB		FALSE
2003	A	1	8	4.16	98.72	EW		FALSE
2003	A	1	9	4.82	98.63	THALWEG		FALSE
2003	A	1	10	5.76	98.75	EW		FALSE
2003	A	1	11	6.20	98.81	GB		FALSE
2003	A	1	12	6.60	99.01	BF		FALSE
2003	A	1	13	6.91	99.18	TOP BANK		FALSE
2003	A	1	14	7.27	99.33	GB		FALSE
2003	A	1	15	8.13	99.45	GB		FALSE
2003	A	1	16	9.03	99.74	GRND XS1		FALSE
						REBAR		
2003	A	1	17	9.06	99.75	BOT X1R		FALSE
						REB/LOW		
2003	A	2	1	0.00	99.66	BOT X2L		FALSE
						REB/LOW		
2003	A	2	2	0.01	99.66	GRND XS2		FALSE
						REBAR		
2003	A	2	3	0.77	99.51			FALSE
2003	A	2	4	1.52	99.34			FALSE
2003	A	2	5	2.20	98.90			FALSE
2003	A	2	6	2.93	98.76			FALSE
2003	A	2	7	3.57	98.49			FALSE
2003	A	2	8	4.10	98.34			FALSE
2003	A	2	9	4.61	98.29	GB		FALSE
2003	A	2	10	4.83	98.17	EW		FALSE
2003	A	2	11	5.42	98.09	THALWEG		FALSE
2003	A	2	12	6.72	98.14	EW		FALSE
2003	A	2	13	7.28	98.18	GB		FALSE
2003	A	2	14	7.76	98.42	BF		FALSE
2003	A	2	15	7.98	98.54	GB		FALSE
2003	A	2	16	8.85	98.91	GB		FALSE
2003	A	2	17	9.47	98.95	GB		FALSE
2003	A	2	18	9.80	99.35	TOP BANK		FALSE
2003	A	2	19	10.68	99.68	GRND XS2		FALSE
						REBAR		
2003	A	2	20	10.69	99.69	BOT X2R		FALSE
						REB/LOW		
2003	A	3	1	0.00	99.48	BOT X3L		FALSE
						REB/LOW		
2003	A	3	2	0.04	99.50	GRND XS3		FALSE
						REBAR		
2003	A	3	3	0.49	99.40	TOP BANK		FALSE
2003	A	3	4	1.01	98.92	GB		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2003	A	3	5	1.74	98.60	GB		FALSE
2003	A	3	6	1.96	98.27	GB		FALSE
2003	A	3	7	2.21	97.98	THALWEG		FALSE
2003	A	3	8	2.63	97.86	EW		FALSE
2003	A	3	9	4.21	97.79	THALWEG		FALSE
2003	A	3	10	4.64	97.90	EW		FALSE
2003	A	3	11	4.99	98.06	GB		FALSE
2003	A	3	12	5.47	98.23	BF		FALSE
2003	A	3	13	5.92	98.40	GB		FALSE
2003	A	3	14	6.90	98.51	GB		FALSE
2003	A	3	15	7.71	98.38	GB		FALSE
2003	A	3	16	8.59	98.61	GB		FALSE
2003	A	3	17	9.04	98.79	GB		FALSE
2003	A	3	18	9.64	99.19	TOP BANK		FALSE
2003	A	3	19	10.30	99.37	GB		FALSE
2003	A	3	20	10.87	99.70	GRND XS3 REBAR		FALSE
2003	A	3	21	10.86	99.69	BOT X3R REB/LOW		FALSE
2003	A	4	1	0.00	100.00	TOP X4L REB/LOW		TRUE
2003	A	4	2	0.00	99.67	BOT X4L REB/LOW		TRUE
2003	A	4	3	0.03	99.68	GRND XS2 REBAR		TRUE
2003	A	4	4	1.21	99.41	GB		TRUE
2003	A	4	5	1.98	99.36	BF		TRUE
2003	A	4	6	2.22	98.81	GB		TRUE
2003	A	4	7	2.97	98.57	EW		TRUE
2003	A	4	8	3.80	98.48	THALWEG		TRUE
2003	A	4	9	4.73	98.54	EW		TRUE
2003	A	4	10	5.47	98.60	GB		TRUE
2003	A	4	11	6.16	98.94	BF		TRUE
2003	A	4	12	7.07	99.14	GB		TRUE
2003	A	4	13	8.14	99.34	GB		TRUE
2003	A	4	14	8.48	99.89	TOP BANK		TRUE
2003	A	4	15	9.32	99.92	GRND XS2 NOREBAR		TRUE
2003	A	5	1	0.00	100.00	TOP X5L REB/LOW		TRUE
2003	A	5	2	0.04	99.67	BOT X5L REB/LOW		TRUE
2003	A	5	3	0.05	99.69			TRUE
2003	A	5	4	0.51	99.77			TRUE
2003	A	5	5	1.01	99.74			TRUE
2003	A	5	6	1.63	99.35			TRUE
2003	A	5	7	2.11	98.78			TRUE
2003	A	5	8	2.68	98.60			TRUE
2003	A	5	9	3.36	98.36			TRUE
2003	A	5	10	4.08	98.56			TRUE
2003	A	5	11	4.23	98.69	GB		TRUE
2003	A	5	12	4.55	98.88	BF		TRUE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2003	A	5	13	4.96	99.09	GB		TRUE
2003	A	5	14	5.45	99.27	GB		TRUE
2003	A	5	15	6.23	99.51	GRND XS1		TRUE
						REBAR		
2003	A	5	16	6.24	99.52	BOT X45R		TRUE
						REB/LOW		
2003	A	6	1	0.00	99.80	BOT X6L		FALSE
						REB/LOW		
2003	A	6	2	0.04	99.84	GRND XS6		FALSE
						REBAR		
2003	A	6	3	0.36	99.78	TOP BANK		FALSE
2003	A	6	4	0.64	98.48	GB		FALSE
2003	A	6	5	1.07	98.28	GB		FALSE
2003	A	6	6	1.28	98.00	GB		FALSE
2003	A	6	7	1.52	97.97	EW		FALSE
2003	A	6	8	2.48	97.89	THALWEG		FALSE
2003	A	6	9	3.47	97.98	EW		FALSE
2003	A	6	10	4.05	98.09	GB		FALSE
2003	A	6	11	4.28	98.29	BF		FALSE
2003	A	6	12	4.64	98.48	GB		FALSE
2003	A	6	13	5.18	98.84	GB		FALSE
2003	A	6	14	6.03	99.06	GB		FALSE
2003	A	6	15	7.16	99.32	TOP BANK		FALSE
2003	A	6	16	9.32	99.11	GB		FALSE
2003	A	6	17	11.67	99.14	GB		FALSE
2003	A	6	18	12.56	98.99	GB		FALSE
2003	A	6	19	14.14	99.06	GB		FALSE
2003	A	6	20	14.86	99.14	GB		FALSE
2003	A	6	21	15.19	99.43	GRND XS6		FALSE
						REBAR		
2003	A	6	22	15.19	99.42	BOT X6R		FALSE
						REB/LOW		
2003	A	6	23	15.20	99.84	TOP X6R		FALSE
						REB/LOW		
2003	A	7	1	0.00	100.00	TOP X7L		FALSE
						REB/LOW		
2003	A	7	2	0.03	99.71	BOT X7L		FALSE
						REB/LOW		
2003	A	7	3	0.01	99.73	GRND XS7		FALSE
						REBAR		
2003	A	7	4	0.70	99.58	TOP BANK		FALSE
2003	A	7	5	1.40	98.55	GB		FALSE
2003	A	7	6	2.64	98.22	EW		FALSE
2003	A	7	7	3.29	98.18	THALWEG		FALSE
2003	A	7	8	4.26	98.18	EW		FALSE
2003	A	7	9	4.75	98.33	GB		FALSE
2003	A	7	10	5.24	98.50	GB		FALSE
2003	A	7	11	5.50	98.71	BF		FALSE
2003	A	7	12	6.55	98.84	GB		FALSE
2003	A	7	13	7.86	99.08	GB		FALSE
2003	A	7	14	8.76	99.31	GB		FALSE
2003	A	7	15	9.88	99.43	TOP BANK		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2003	A	7	16	12.63	99.36	GB		FALSE
2003	A	7	17	14.75	99.26	GB		FALSE
2003	A	7	18	16.90	99.33	GB		FALSE
2003	A	7	19	18.01	99.60	GB		FALSE
2003	A	7	20	18.67	99.80	BOT X789R		FALSE
						REB/LW		
2003	A	7	21	18.64	100.20	TOP X789R		FALSE
						REB/LW		
2003	A	8	1	0.00	100.00	TOP X8L		FALSE
						REB/LOW		
2003	A	8	2	0.01	99.59	BOT X8L		FALSE
						REB/LOW		
2003	A	8	3	0.02	99.60	GRND XS8		FALSE
						REBAR		
2003	A	8	4	0.77	99.52			FALSE
2003	A	8	5	1.02	98.45			FALSE
2003	A	8	6	1.84	98.19			FALSE
2003	A	8	7	2.56	98.08			FALSE
2003	A	8	8	3.01	97.99			FALSE
2003	A	8	9	3.25	97.89			FALSE
2003	A	8	10	4.06	97.76	THALWEG		FALSE
2003	A	8	11	5.03	97.88	EW		FALSE
2003	A	8	12	5.43	97.99	GB		FALSE
2003	A	8	13	5.88	98.17	BF		FALSE
2003	A	8	14	6.37	98.38	GB		FALSE
2003	A	8	15	7.57	98.55	GB		FALSE
2003	A	8	16	8.99	98.73	GB		FALSE
2003	A	8	17	10.87	98.85	GB		FALSE
2003	A	8	18	11.72	99.10	TOP BANK		FALSE
2003	A	8	19	12.92	99.25	GB		FALSE
2003	A	8	20	15.05	99.10	GB		FALSE
2003	A	8	21	17.43	99.06	GB		FALSE
2003	A	8	22	18.91	99.23	GB		FALSE
2003	A	8	23	19.54	99.58	BOT X789R		FALSE
						REB/LW		
2003	A	8	24	19.51	99.99	TOP X789R		FALSE
						REB/LW		
2003	A	9	1	0.00	100.00	TOP X9L		FALSE
						REB/LOW		
2003	A	9	2	0.02	99.61	BOT X9L		FALSE
						REB/LOW		
2003	A	9	3	0.03	99.62	GRND XS9		FALSE
						REBAR		
2003	A	9	4	0.51	99.60	TOP BANK		FALSE
2003	A	9	5	0.85	98.65	GB		FALSE
2003	A	9	6	1.77	98.48	GB		FALSE
2003	A	9	7	2.92	98.37	GB		FALSE
2003	A	9	8	3.78	98.25	GB		FALSE
2003	A	9	9	4.94	98.11	EW		FALSE
2003	A	9	10	6.25	97.98	THALWEG		FALSE
2003	A	9	11	7.44	98.04	EW		FALSE
2003	A	9	12	7.85	98.24	GB		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2003	A	9	13	8.40	98.46	BF		FALSE
2003	A	9	14	8.92	98.78	GB		FALSE
2003	A	9	15	10.24	98.93	GB		FALSE
2003	A	9	16	11.89	98.91	GB		FALSE
2003	A	9	17	12.88	99.19	GB		FALSE
2003	A	9	18	13.61	99.42	TOP BANK		FALSE
2003	A	9	19	15.60	99.36	GB		FALSE
2003	A	9	20	16.93	99.10	GB		FALSE
2003	A	9	21	17.94	99.28	GB		FALSE
2003	A	9	22	19.02	99.30	GB		FALSE
2003	A	9	23	20.03	99.65	GB		FALSE
2003	A	9	24	20.57	99.82	BOT X789R		FALSE
						REB/LW		
2003	A	9	25	20.54	100.23	TOP X789R		FALSE
						REB/LW		
2003	A	10	1	0.00	100.00	TOP X10L		FALSE
						REB/LOW		
2003	A	10	2	0.02	99.54	BOT X10L		FALSE
						REB/LOW		
2003	A	10	3	0.03	99.55	XS 10 AT		FALSE
						REBAR		
2003	A	10	4	0.45	99.53	THALWEG		FALSE
2003	A	10	5	0.62	98.53	EW		FALSE
2003	A	10	6	3.73	98.24	GB		FALSE
2003	A	10	7	6.62	97.96	GB		FALSE
2003	A	10	8	7.41	97.94	GB		FALSE
2003	A	10	9	8.00	97.71	EW		FALSE
2003	A	10	10	8.65	97.54	THALWEG		FALSE
2003	A	10	11	9.51	97.77	EW		FALSE
2003	A	10	12	10.14	98.13	BF		FALSE
2003	A	10	13	10.86	98.60	GB		FALSE
2003	A	10	14	13.16	98.94	TOP BANK		FALSE
2003	A	10	15	14.21	98.90	GB		FALSE
2003	A	10	16	15.76	99.12	GB		FALSE
2003	A	10	17	17.21	98.91	GB		FALSE
2003	A	10	18	18.92	99.21	GB		FALSE
2003	A	10	19	20.25	100.01	TOP X10R		FALSE
						REB/LOW		
2003	B	1	1	0.00	100.00	TOP X1L		FALSE
						REB/LOW		
2003	B	1	2	0.05	99.82	XS B1 RE-		FALSE
						BAR		
2003	B	1	3	0.37	99.23	GB		FALSE
2003	B	1	4	1.01	98.37	GB		FALSE
2003	B	1	5	2.01	97.88	BF		FALSE
2003	B	1	6	2.97	97.60	EW		FALSE
2003	B	1	7	3.81	97.52	THALWEG		FALSE
2003	B	1	8	6.21	97.57	GB		FALSE
2003	B	1	9	7.00	97.75	GB		FALSE
2003	B	1	10	7.61	98.07	GB		FALSE
2003	B	1	11	8.60	98.66	GB		FALSE
2003	B	1	12	9.32	99.20	GB		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2003	B	1	13	10.09	99.76	XS B1 RE-BAR		FALSE
2003	B	1	14	10.10	99.99	TOP X1R REB/LOW		FALSE
2003	B	2	1	0.00	100.00	TOP X2L REB/LOW		FALSE
2003	B	2	2	0.01	99.57	XS B2 RE-BAR		FALSE
2003	B	2	3	0.28	99.07	GB FOOT-PATH		FALSE
2003	B	2	4	1.15	98.73	GB FOOT-PATH		FALSE
2003	B	2	5	1.82	98.32	GB		FALSE
2003	B	2	6	2.67	97.64	BF		FALSE
2003	B	2	7	3.25	97.40	GB		FALSE
2003	B	2	8	3.78	97.37	EW		FALSE
2003	B	2	9	4.64	97.26	THALWEG		FALSE
2003	B	2	10	5.93	97.34	EW		FALSE
2003	B	2	11	7.00	97.39	EW		FALSE
2003	B	2	12	8.09	97.80	GB		FALSE
2003	B	2	13	8.93	98.46	GB		FALSE
2003	B	2	14	9.81	99.10	GB		FALSE
2003	B	2	15	10.54	99.49	XS B2 RE-BAR		FALSE
2003	B	2	16	10.58	99.99	TOP X2R REB/LOW		FALSE
2003	B	3	1	0.00	100.00	TOP X3L REB/LOW		FALSE
2003	B	3	2	0.04	99.43	XS B3 RE-BAR		FALSE
2003	B	3	3	0.44	99.17	GB		FALSE
2003	B	3	4	1.12	98.72	TOP BANK		FALSE
2003	B	3	5	1.59	98.34	BF		FALSE
2003	B	3	6	2.92	98.12	GB		FALSE
2003	B	3	7	4.59	97.95	EW		FALSE
2003	B	3	8	5.20	97.86	THALWEG		FALSE
2003	B	3	9	5.94	97.96	EW		FALSE
2003	B	3	10	6.50	98.21	GB		FALSE
2003	B	3	11	7.03	98.50	GB		FALSE
2003	B	3	12	7.81	98.96	GB		FALSE
2003	B	3	13	8.51	99.78	XS B3 RE-BAR		FALSE
2003	B	3	14	8.50	99.97	TOP X3R REB/LOW		FALSE
2003	B	4	1	0.00	100.00	TOP X2L REB/LOW		TRUE
2003	B	4	2	0.01	99.57	XS B2 RE-BAR		TRUE
2003	B	4	3	0.28	99.07	GB FOOT-PATH		TRUE
2003	B	4	4	1.15	98.73	GB FOOT-PATH		TRUE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2003	B	4	5	1.82	98.32	GB		TRUE
2003	B	4	6	2.67	97.64	BF		TRUE
2003	B	4	7	3.25	97.40	GB		TRUE
2003	B	4	8	3.78	97.37	EW		TRUE
2003	B	4	9	4.64	97.26	THALWEG		TRUE
2003	B	4	10	5.93	97.34	EW		TRUE
2003	B	4	11	7.00	97.39	EW		TRUE
2003	B	4	12	8.09	97.80	GB		TRUE
2003	B	4	13	8.93	98.46	GB		TRUE
2003	B	4	14	9.81	99.10	GB		TRUE
2003	B	4	15	10.54	99.49	XS B2 RE- BAR		TRUE
2003	B	4	16	10.58	99.99	TOP X2R REB/LOW		TRUE
2003	B	5	1	0.00	100.00	TOP X3L REB/LOW		FALSE
2003	B	5	2	0.04	99.43	XS B3 RE- BAR		FALSE
2003	B	5	3	0.44	99.17	GB		FALSE
2003	B	5	4	1.12	98.72	TOP BANK		FALSE
2003	B	5	5	1.59	98.34	BF		FALSE
2003	B	5	6	2.92	98.12	GB		FALSE
2003	B	5	7	4.59	97.95	EW		FALSE
2003	B	5	8	5.20	97.86	THALWEG		FALSE
2003	B	5	9	5.94	97.96	EW		FALSE
2003	B	5	10	6.50	98.21	GB		FALSE
2003	B	5	11	7.03	98.50	GB		FALSE
2003	B	5	12	7.81	98.96	GB		FALSE
2003	B	5	13	8.51	99.78	XS B3 RE- BAR		FALSE
2003	B	5	14	8.50	99.97	TOP X3R REB/LOW		FALSE
2003	B	6	1	0.00	100.00	TOP X6L REB/LOW		FALSE
2003	B	6	2	0.01	99.94	XS B6 RE- BAR		FALSE
2003	B	6	3	0.91	99.33	GB		FALSE
2003	B	6	4	1.54	98.99	GB		FALSE
2003	B	6	5	2.17	98.72	BF		FALSE
2003	B	6	6	3.28	98.31	EW		FALSE
2003	B	6	7	4.55	98.24	THALWEG		FALSE
2003	B	6	8	5.17	98.33	EW		FALSE
2003	B	6	9	5.98	98.56	GB		FALSE
2003	B	6	10	6.61	98.68	GB		FALSE
2003	B	6	11	7.31	99.17	GB		FALSE
2003	B	6	12	7.97	99.84	XS B6 RE- BAR		FALSE
2003	B	6	13	7.96	100.01	TOP X6R REB/LOW		FALSE
2003	B	7	1	0.00	100.00	XS B7 RE- BAR		FALSE
2003	B	7	2	0.62	99.59	GB		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2003	B	7	3	1.11	99.48	GB		FALSE
2003	B	7	4	1.72	99.00	BF		FALSE
2003	B	7	5	2.64	98.74	GB		FALSE
2003	B	7	6	3.94	98.49	EW		FALSE
2003	B	7	7	4.93	98.34	THALWEG		FALSE
2003	B	7	8	5.71	98.48	EW		FALSE
2003	B	7	9	6.11	98.74	GB		FALSE
2003	B	7	10	6.57	98.91	GB		FALSE
2003	B	7	11	6.94	99.33	GB		FALSE
2003	B	7	12	7.95	99.64	GB		FALSE
2003	B	7	13	8.99	100.07	GB		FALSE
2003	B	7	14	9.70	100.34	XS B7 RE- BAR		FALSE
2003	B	7	15	9.76	100.64	TOP X7R REB/LOW		FALSE
2003	B	8	1	0.00	100.00	XS B8 RE- BAR		FALSE
2003	B	8	2	0.04	99.53	TOP X8L REB/LOW		FALSE
2003	B	8	3	0.64	99.24	BF		FALSE
2003	B	8	4	0.83	98.79			FALSE
2003	B	8	5	1.69	98.68			FALSE
2003	B	8	6	2.92	98.58			FALSE
2003	B	8	7	3.53	98.65			FALSE
2003	B	8	8	3.96	99.11			FALSE
2003	B	8	9	4.71	99.39			FALSE
2003	B	8	10	5.59	99.62	XS B8 RE- BAR		FALSE
2003	B	9	1	0.00	100.00	TOP X9L REB/LOW		FALSE
2003	B	9	2	0.13	99.57	XS B9 RE- BAR		FALSE
2003	B	9	3	0.13	99.42	TOP BANK		FALSE
2003	B	9	4	0.72	97.69	BF		FALSE
2003	B	9	5	1.07	97.28	GB		FALSE
2003	B	9	6	1.87	97.30	EW		FALSE
2003	B	9	7	3.04	97.23	THALWEG		FALSE
2003	B	9	8	3.45	97.24	EW		FALSE
2003	B	9	9	3.99	97.37	GB		FALSE
2003	B	9	10	4.64	97.89	TOP BANK		FALSE
2003	B	9	11	6.84	98.23	GB		FALSE
2003	B	9	12	7.60	98.53	GB		FALSE
2003	B	9	13	9.45	98.46	GB		FALSE
2003	B	9	14	11.01	98.57	GB		FALSE
2003	B	9	15	12.25	99.08	GB		FALSE
2003	B	9	16	13.72	99.87	XS B9 RE- BAR		FALSE
2003	B	10	1	0.00	100.00	XS B10 RE- BAR		FALSE
2003	B	10	2	0.02	100.02	TOP BANK		FALSE
2003	B	10	3	0.79	98.01	BF		FALSE
2003	B	10	4	1.41	97.82	THALWEG		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2003	B	10	5	2.23	97.63	EW		FALSE
2003	B	10	6	3.28	97.50	GB		FALSE
2003	B	10	7	4.09	97.59	EW		FALSE
2003	B	10	8	5.02	97.83	GB		FALSE
2003	B	10	9	6.66	98.51	TOP BANK		FALSE
2003	B	10	10	9.84	98.48	GB		FALSE
2003	B	10	11	12.62	98.42	GB		FALSE
2003	B	10	12	13.88	99.11	GB		FALSE
2003	B	10	13	15.48	100.12	XS B10 RE- BAR		FALSE
2004	A	1	1	0.00	100.00	Top X 1 L Reb/low		FALSE
2004	A	1	2	0.00	99.82	Bot X 1 L Re- b/low		FALSE
2004	A	1	3	2.53	99.34	BIS		FALSE
2004	A	1	4	3.11	99.22	BF		FALSE
2004	A	1	5	3.57	98.99	BIS		FALSE
2004	A	1	6	4.30	98.72	EW		FALSE
2004	A	1	7	5.00	98.60	TW		FALSE
2004	A	1	8	5.46	98.73	EW		FALSE
2004	A	1	9	6.49	98.97	BIS		FALSE
2004	A	1	10	7.19	99.39	TOB		FALSE
2004	A	1	11	9.08	99.75	Bot X 1 R Reb/low		FALSE
2004	A	1	12	9.08	100.01	Top X 1 R Reb/low		FALSE
2004	A	2	1	0.00	100.00	Top X 2 L Reb/low		FALSE
2004	A	2	2	0.00	99.67	Bot X 2 L Re- b/low		FALSE
2004	A	2	3	1.28	99.42	BIS		FALSE
2004	A	2	4	2.13	98.98	BIS		FALSE
2004	A	2	5	2.99	98.78	BIS		FALSE
2004	A	2	6	3.75	98.52	BF		FALSE
2004	A	2	7	4.48	98.25	BIS		FALSE
2004	A	2	8	5.03	98.14	EW		FALSE
2004	A	2	9	5.91	97.99	TW		FALSE
2004	A	2	10	7.16	98.16	EW		FALSE
2004	A	2	11	7.71	98.49	BIS		FALSE
2004	A	2	12	8.14	98.70	BIS		FALSE
2004	A	2	13	9.21	98.92	TOB		FALSE
2004	A	2	14	9.85	99.38	BIS		FALSE
2004	A	2	15	10.70	99.68	Bot X 2 R Reb/low		FALSE
2004	A	2	16	10.70	100.02	Top X 2 R Reb/low		FALSE
2004	A	3	1	0.00	100.00	Top X3L Re- b/low		FALSE
2004	A	3	2	0.00	99.49	Bot X3L Re- b/low		FALSE
2004	A	3	3	0.61	99.30	BIS	between stump and alder	FALSE
2004	A	3	4	0.91	98.88	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	A	3	5	1.83	98.43	TOB		FALSE
2004	A	3	6	2.19	97.92	EW		FALSE
2004	A	3	7	3.29	97.79	TW		FALSE
2004	A	3	8	4.39	97.90	EW		FALSE
2004	A	3	9	5.67	98.42	BF		FALSE
2004	A	3	10	6.83	98.53	TOB		FALSE
2004	A	3	11	8.08	98.48	BIS	one foot low, corrected	FALSE
2004	A	3	12	9.72	99.32	BIS		FALSE
2004	A	3	13	10.70	99.67	Bot X 3 R		FALSE
						Reb/low		
2004	A	3	14	10.70	100.10	Top X 3 R		FALSE
						Reb/low		
2004	A	4	1	0.00	100.00	Top X 4 L		FALSE
						Reb/low		
2004	A	4	2	0.00	99.70	Bot X 4 L Re-		FALSE
						b/low		
2004	A	4	3	1.22	99.47	BIS		FALSE
2004	A	4	4	2.29	99.31	TOB		FALSE
2004	A	4	5	3.14	98.62	EW		FALSE
2004	A	4	6	4.24	98.51	TW		FALSE
2004	A	4	7	5.15	98.57	EW		FALSE
2004	A	4	8	6.71	98.98	BF		FALSE
2004	A	4	9	7.74	99.22	TOB		FALSE
2004	A	4	10	8.72	99.46	Bot X 4 R		FALSE
						Reb/low		
2004	A	4	11	8.72	99.84	Top X 4 R		FALSE
						Reb/low		
2004	A	5	1	0.00	100.00	Top X 5 L		FALSE
						Reb/low		
2004	A	5	2	0.00	99.70	Bot X 5 L Re-		FALSE
						b/low		
2004	A	5	3	1.46	99.92	TOB *in a		FALSE
						root ball of		
						Alder		
2004	A	5	4	2.19	99.17	BIS		FALSE
2004	A	5	5	2.77	98.80	BIS		FALSE
2004	A	5	6	3.29	98.72	EW		FALSE
2004	A	5	7	4.27	98.47	TW		FALSE
2004	A	5	8	5.06	98.63	BIS *in		FALSE
						stream next		
						to rock		
2004	A	5	9	5.49	98.73	EW *other		FALSE
						side of rock		
2004	A	5	10	6.07	99.08	BF		FALSE
2004	A	5	11	6.74	99.25	TB		FALSE
2004	A	5	12	7.83	99.60	Bot X 5 R		FALSE
						Reb/low		
2004	A	5	13	7.83	99.98	Top X 5 R		FALSE
						Reb/low		
2004	A	6	1	0.00	100.00	Top X 6 L		FALSE
						Reb/low		

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	A	6	2	0.00	99.82	Bot X 6 L Re-		FALSE
						b/low		
2004	A	6	3	0.46	99.66	TOB		FALSE
2004	A	6	4	0.73	98.58	BIS		FALSE
2004	A	6	5	0.91	98.45	BF		FALSE
2004	A	6	6	1.55	98.01	EW		FALSE
2004	A	6	7	2.26	97.93	TW		FALSE
2004	A	6	8	3.08	98.02	BIS	*in	FALSE
						stream		
2004	A	6	9	3.93	98.04	EW		FALSE
2004	A	6	10	4.57	98.66	BIS		FALSE
2004	A	6	11	5.27	98.97	BIS		FALSE
2004	A	6	12	6.40	99.13	TOB		FALSE
2004	A	6	13	9.63	99.17	BIS		FALSE
2004	A	6	14	13.23	99.13	BIS		FALSE
2004	A	6	15	14.78	99.14	BIS		FALSE
2004	A	6	16	15.12	99.43	Bot X 6 R		FALSE
						Reb/low		
2004	A	6	17	15.12	99.80	Top X 6 R		FALSE
						Reb/low		
2004	A	7	1	0.00	100.00	Top X 7 L		FALSE
						Reb/low		
2004	A	7	2	0.00	99.76	Bot X 7 L Re-		FALSE
						b/low		
2004	A	7	3	0.73	99.68	TOB		FALSE
2004	A	7	4	1.83	98.42	BIS		FALSE
2004	A	7	5	2.50	98.28	EW		FALSE
2004	A	7	6	3.57	98.18	TW		FALSE
2004	A	7	7	4.39	98.30	EW		FALSE
2004	A	7	8	5.55	98.73	BF		FALSE
2004	A	7	9	6.95	99.01	BIS		FALSE
2004	A	7	10	9.24	99.43	TOB		FALSE
2004	A	7	11	11.13	99.53	BIS		FALSE
2004	A	7	12	13.93	99.41	BIS		FALSE
2004	A	7	13	16.28	99.30	BIS		FALSE
2004	A	7	14	18.11	99.57	BIS		FALSE
2004	A	7	15	18.62	99.83	Bot X 7 R		FALSE
						Reb/low		
2004	A	7	16	18.62	100.20	Top X 7 R		FALSE
						Reb/low		
2004	A	8	1	0.00	100.00	Top X 8 L		FALSE
						Reb/low		
2004	A	8	2	0.00	99.62	Bot X 8 L Re-		FALSE
						b/low		
2004	A	8	3	0.64	99.57	TOB		FALSE
2004	A	8	4	1.16	98.41	BIS		FALSE
2004	A	8	5	1.86	98.22	BIS		FALSE
2004	A	8	6	2.53	98.11	BF		FALSE
2004	A	8	7	3.23	98.10	BIS		FALSE
2004	A	8	8	3.66	98.01	EW		FALSE
2004	A	8	9	4.15	97.95	TW		FALSE
2004	A	8	10	5.00	97.98	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	A	8	11	5.52	98.04	EW		FALSE
2004	A	8	12	5.91	98.21	BIS		FALSE
2004	A	8	13	6.10	98.34	BIS		FALSE
2004	A	8	14	7.41	98.59	BIS		FALSE
2004	A	8	15	10.15	98.82	BIS		FALSE
2004	A	8	16	12.28	99.22	BIS		FALSE
2004	A	8	17	14.02	99.19	BIS		FALSE
2004	A	8	18	15.97	98.99	BIS		FALSE
2004	A	8	19	17.89	99.15	BIS		FALSE
2004	A	8	20	18.65	99.23	BIS		FALSE
2004	A	8	21	19.48	99.63	Bot X 8 R		FALSE
						Reb/low		
2004	A	8	22	19.48	99.99	Top X 8 R		FALSE
						Reb/low		
2004	A	9	1	0.00	100.00	Top X 9 L		FALSE
						Reb/low		
2004	A	9	2	0.00	99.63	Bot X 9 L Re-		FALSE
						b/low		
2004	A	9	3	0.67	99.69	TOB		FALSE
2004	A	9	4	0.85	98.71	BIS		FALSE
2004	A	9	5	1.98	98.53	BIS		FALSE
2004	A	9	6	3.35	98.39	BIS		FALSE
2004	A	9	7	3.72	98.38	BF		FALSE
2004	A	9	8	4.48	98.29	BIS		FALSE
2004	A	9	9	4.79	98.24	EW		FALSE
2004	A	9	10	5.36	98.18	BIS	*in	FALSE
						stream		
2004	A	9	11	5.79	98.20	BIS	*in	FALSE
						stream		
2004	A	9	12	6.40	98.21	TW		FALSE
2004	A	9	13	6.77	98.27	EW		FALSE
2004	A	9	14	7.22	98.40	BIS		FALSE
2004	A	9	15	7.92	98.51	BIS		FALSE
2004	A	9	16	8.29	98.72	TOB		FALSE
2004	A	9	17	9.78	98.26	BIS		TRUE
2004	A	9	18	10.39	98.95	BIS		FALSE
2004	A	9	19	12.41	99.01	BIS		FALSE
2004	A	9	20	12.98	99.38	BIS		FALSE
2004	A	9	21	14.02	99.44	BIS		FALSE
2004	A	9	22	14.78	99.35	BIS		FALSE
2004	A	9	23	16.22	99.25	BIS		FALSE
2004	A	9	24	16.92	99.17	BIS		FALSE
2004	A	9	25	18.59	99.31	BIS		FALSE
2004	A	9	26	19.87	99.52	BIS		FALSE
2004	A	9	27	20.51	99.84	Bot X 9 R		FALSE
						Reb/low		
2004	A	9	28	20.51	100.13	Top X 9 R		FALSE
						Reb/low		
2004	A	10	1	0.00	100.00	Top X 10 L		FALSE
						Reb/low		
2004	A	10	2	0.00	99.57	Bot X 10 L		FALSE
						Reb/low		

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	A	10	3	0.46	99.56	TOB		FALSE
2004	A	10	4	0.70	98.56	BIS		FALSE
2004	A	10	5	1.80	98.49	BIS		FALSE
2004	A	10	6	3.81	98.25	BF		FALSE
2004	A	10	7	3.90	98.17	BIS		FALSE
2004	A	10	8	5.33	98.17	BIS		FALSE
2004	A	10	9	5.82	97.87	EW		FALSE
2004	A	10	10	6.46	97.55	TW *thalwag		FALSE
						in a pool		
2004	A	10	11	7.77	97.81	BIS *in		FALSE
						stream		
2004	A	10	12	9.48	97.82	EW		FALSE
2004	A	10	13	10.70	98.66	TOB		FALSE
2004	A	10	14	13.23	98.98	BIS		FALSE
2004	A	10	15	15.91	99.08	BIS		FALSE
2004	A	10	16	18.23	99.17	BIS		FALSE
2004	A	10	17	20.24	99.80	Bot X 10 R		FALSE
						Reb/low		
2004	A	10	18	20.24	100.00	Top X 10 R		FALSE
						Reb/low		
2004	B	1	1	0.00	100.00	Top X 1 L		FALSE
						Reb/low		
2004	B	1	2	0.00	99.88	Bot X 1 L Re-		FALSE
						b/low		
2004	B	1	3	0.46	99.20	BIS		FALSE
2004	B	1	4	1.52	98.29	BIS		FALSE
2004	B	1	5	2.83	97.65	EW		FALSE
2004	B	1	6	4.27	97.52	TW		FALSE
2004	B	1	7	6.40	97.65	EW		FALSE
2004	B	1	8	7.77	98.31	BF		FALSE
2004	B	1	9	8.05	98.50	TOB		FALSE
2004	B	1	10	9.14	99.18	BIS		FALSE
2004	B	1	11	10.06	99.89	Bot X 1 R		FALSE
						Reb/low		
2004	B	1	12	10.06	99.99	Top X 1 R		FALSE
						Reb/low		
2004	B	2	1	0.00	100.00	Top X 2 L		FALSE
						Reb/low		
2004	B	2	2	0.00	99.61	Bot X 2 L Re-		FALSE
						b/low		
2004	B	2	3	0.30	99.13	BIS *left		FALSE
						edge of trail		
2004	B	2	4	1.34	98.73	BIS *right		FALSE
						edge of trail		
2004	B	2	5	3.05	97.52	BIS		FALSE
2004	B	2	6	4.05	97.46	EW		FALSE
2004	B	2	7	5.30	97.37	TW		FALSE
2004	B	2	8	6.64	97.43	EW		FALSE
2004	B	2	9	7.92	97.83	BF		FALSE
2004	B	2	10	8.96	98.64	TOB		FALSE
2004	B	2	11	9.75	99.19	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	B	2	12	10.55	99.53	Bot X 2 R		FALSE
						Reb/low		
2004	B	2	13	10.55	100.01	Top X 2 R		FALSE
						Reb/low		
2004	B	3	1	0.00	100.00	Top X 3 L		FALSE
						Reb/low		
2004	B	3	2	0.00	99.47	Bot X 3 L Re-		FALSE
						b/low		
2004	B	3	3	2.13	98.15	BIS		FALSE
2004	B	3	4	4.51	98.04	EW		FALSE
2004	B	3	5	5.33	97.94	TW		FALSE
2004	B	3	6	5.94	98.05	EW		FALSE
2004	B	3	7	6.95	98.61	BF		FALSE
2004	B	3	8	7.92	99.20	TOB		FALSE
2004	B	3	9	8.44	99.84	Bot X 3 R		FALSE
						Reb/low		
2004	B	3	10	8.44	99.98	Top X 3 R		FALSE
						Reb/low		
2004	B	4	1	0.00	100.00	Top X 4 L		FALSE
						Reb/low		
2004	B	4	2	0.00	99.87	Bot X 4 L Re-		FALSE
						b/low		
2004	B	4	3	1.37	99.48	BIS		FALSE
2004	B	4	4	2.13	98.70	BIS		FALSE
2004	B	4	5	3.81	98.84	BIS *in dry		FALSE
						stream chan-		
						nel		
2004	B	4	6	4.57	98.52	EW		FALSE
2004	B	4	7	5.88	98.44	TW		FALSE
2004	B	4	8	6.58	98.46	EW		FALSE
2004	B	4	9	6.98	99.12	BF		FALSE
2004	B	4	10	7.41	99.53	Bot X 4		FALSE
						R Reb/low		
						*also TOB		
2004	B	4	11	7.41	100.01	Top X 4 R		FALSE
						Reb/low		
2004	B	5	1	0.00	100.00	Top X 5 L		FALSE
						Reb/low		
2004	B	5	2	0.00	99.81	Bot X 5 L Re-		FALSE
						b/low		
2004	B	5	3	0.67	99.26	TOB		FALSE
2004	B	5	4	2.13	98.43	BF		FALSE
2004	B	5	5	3.66	98.07	BIS		FALSE
2004	B	5	6	4.72	97.94	EW		FALSE
2004	B	5	7	5.30	97.85	TW		FALSE
2004	B	5	8	5.94	97.98	EW		FALSE
2004	B	5	9	6.83	98.02	BIS		FALSE
2004	B	5	10	7.50	99.14	BIS		FALSE
2004	B	5	11	8.23	100.02	Bot X 5 R		FALSE
						Reb/low		
2004	B	5	12	8.23	100.16	Top X 5 R		FALSE
						Reb/low		

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	B	6	1	0.00	100.00	Top X 6 L		FALSE
						Reb/low		
2004	B	6	2	0.00	99.98	Bot X 6 L Re-		FALSE
						b/low		
2004	B	6	3	0.61	99.45	TOB		FALSE
2004	B	6	4	1.22	99.35	BIS		FALSE
2004	B	6	5	2.16	98.83	BF		FALSE
2004	B	6	6	3.54	98.34	EW		FALSE
2004	B	6	7	4.27	98.17	TW		FALSE
2004	B	6	8	5.21	98.30	EW *left side		FALSE
						of granite		
						rock		
2004	B	6	9	5.61	98.56	BIS *right		FALSE
						side of gran-		
						ite rock		
2004	B	6	10	6.40	98.66	BIS		FALSE
2004	B	6	11	7.96	99.88	Bot X 6 R		FALSE
						Reb/low		
2004	B	6	12	7.96	100.02	Top X 6 R		FALSE
						Reb/low		
2004	B	7	1	0.00	100.00	Top X 7 L		FALSE
						Reb/low		
2004	B	7	2	0.00	99.44	Bot X 7 L Re-		FALSE
						b/low		
2004	B	7	3	0.82	98.99	TOB		FALSE
2004	B	7	4	1.95	98.29	BF		FALSE
2004	B	7	5	3.23	97.98	EW		FALSE
2004	B	7	6	3.87	97.90	TW		FALSE
2004	B	7	7	5.49	97.98	EW		FALSE
2004	B	7	8	6.31	98.43	BIS		FALSE
2004	B	7	9	6.71	98.79	BIS		FALSE
2004	B	7	10	7.47	99.19	BIS		FALSE
2004	B	7	11	9.48	99.78	Bot X 7 R		FALSE
						Reb/low		
2004	B	7	12	9.48	99.75	Top X 7 R		FALSE
						Reb/low		
2004	B	8	1	0.00	100.00	Top X 8 L		FALSE
						Reb/low		
2004	B	8	2	0.00	99.56	Bot X 8 L Re-		FALSE
						b/low		
2004	B	8	3	0.61	99.29	BIS *on top		FALSE
						of alder log		
						parallel to		
						creek		
2004	B	8	4	0.76	98.82	BIS *right		FALSE
						side of the		
						alder log		
2004	B	8	5	1.95	98.73	EW		FALSE
2004	B	8	6	2.53	98.66	TW		FALSE
2004	B	8	7	3.60	98.66	EW		FALSE
2004	B	8	8	3.90	99.15	BF		FALSE
2004	B	8	9	4.24	99.43	TOB		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	B	8	10	5.55	99.67	Bot X 8 R		FALSE
						Reb/low		
2004	B	8	11	5.55	100.06	Top X 8 R		FALSE
						Reb/low		
2004	B	9	1	0.00	100.00	Top X 9 L		FALSE
						Reb/low		
2004	B	9	2	0.00	99.60	Bot X 9 L Re-		FALSE
						b/low		
2004	B	9	3	0.61	97.65	BIS		FALSE
2004	B	9	4	1.22	97.31	BIS		FALSE
2004	B	9	5	2.07	97.30	EW		FALSE
2004	B	9	6	3.05	97.20	TW		FALSE
2004	B	9	7	3.60	97.30	EW		FALSE
2004	B	9	8	4.51	97.92	BF		FALSE
2004	B	9	9	5.70	98.17	TOB		FALSE
2004	B	9	10	7.92	98.60	BIS		FALSE
2004	B	9	11	10.06	98.51	BIS		FALSE
2004	B	9	12	11.89	99.09	BIS		FALSE
2004	B	9	13	12.92	99.56	BIS		FALSE
2004	B	9	14	13.32	99.90	Bot X 9 R		FALSE
						Reb/low		
2004	B	9	15	13.32	99.99	Top X 9 R		FALSE
						Reb/low		
2004	B	10	1	0.00	100.00	Top X 10 L		FALSE
						Reb/low		
2004	B	10	2	0.00	99.69	Bot X 10 L		FALSE
						Reb/low		
2004	B	10	3	0.30	98.82	BIS		FALSE
2004	B	10	4	0.61	97.77	BIS		FALSE
2004	B	10	5	1.52	97.45	BIS		FALSE
2004	B	10	6	2.16	97.34	EW		FALSE
2004	B	10	7	3.29	97.28	TW		FALSE
2004	B	10	8	4.11	97.34	EW		FALSE
2004	B	10	9	5.33	97.74	BF		FALSE
2004	B	10	10	6.71	98.32	TOB		FALSE
2004	B	10	11	8.53	98.26	BIS		FALSE
2004	B	10	12	11.58	98.26	BIS		FALSE
2004	B	10	13	13.72	98.74	BIS		FALSE
2004	B	10	14	14.94	99.59	BIS		FALSE
2004	B	10	15	15.39	99.86	Bot X 10 R		FALSE
						Reb/low		
2004	B	10	16	15.39	99.95	Top X 10 R		FALSE
						Reb/low		
2004	C	1	1	0.00	100.00	Top X 1 L		FALSE
						Reb/low		
2004	C	1	2	0.00	99.50	Bot X 1 L Re-		FALSE
						b/low		
2004	C	1	3	0.61	98.92	BIS		FALSE
2004	C	1	4	1.22	98.73	BIS		FALSE
2004	C	1	5	2.13	98.46	EW		FALSE
2004	C	1	6	2.44	98.39	TW		FALSE
2004	C	1	7	4.08	98.56	RI		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	C	1	8	4.97	98.61	EW		FALSE
2004	C	1	9	6.71	98.87	BF		FALSE
2004	C	1	10	8.53	99.26	TOB		FALSE
2004	C	1	11	10.55	99.11	BIS		FALSE
2004	C	1	12	12.34	99.84	Bot X 1 R		FALSE
						Reb/low		
2004	C	1	13	12.34	100.15	Top X 1 R		FALSE
						Reb/low		
2004	C	2	1	0.00	100.00	Top X 2 L		FALSE
						Reb/low		
2004	C	2	2	0.00	99.61	Bot X 2 L Re-		FALSE
						b/low		
2004	C	2	3	1.10	98.93	BIS		FALSE
2004	C	2	4	3.05	98.62	BIS		FALSE
2004	C	2	5	5.18	98.09	BIS		FALSE
2004	C	2	6	6.68	97.81	EW		FALSE
2004	C	2	7	7.41	97.72	TW		FALSE
2004	C	2	8	8.90	97.81	EW		FALSE
2004	C	2	9	10.12	98.22	BF		FALSE
2004	C	2	10	10.94	98.30	TOB		FALSE
2004	C	2	11	12.04	98.25	BIS		FALSE
2004	C	2	12	12.28	99.56	Bot X 2		FALSE
						R Reb/low		
						*in redwood		
						stump		
2004	C	2	13	12.28	99.79	Top X 2		FALSE
						R Reb/low		
						*in redwood		
						stump		
2004	C	3	1	0.00	100.00	Top X 3 L		FALSE
						Reb/low		
2004	C	3	2	0.00	99.69	Bot X 3 L Re-		FALSE
						b/low		
2004	C	3	3	1.74	98.88	BIS		FALSE
2004	C	3	4	4.72	98.49	BIS		FALSE
2004	C	3	5	7.22	98.21	EW		FALSE
2004	C	3	6	8.29	98.12	TW		FALSE
2004	C	3	7	9.42	98.21	EW		FALSE
2004	C	3	8	10.45	98.62	BF		FALSE
2004	C	3	9	11.80	98.93	TOB		FALSE
2004	C	3	10	13.47	99.49	BIS		FALSE
2004	C	3	11	14.02	99.78	Bot X 3 R		FALSE
						Reb/low		
2004	C	3	12	14.02	99.99	Top X 3 R		FALSE
						Reb/low		
2004	C	4	1	0.00	100.00	Top X 4 L		FALSE
						Reb/low		
2004	C	4	2	0.00	99.73	Bot X 4 L Re-		FALSE
						b/low		
2004	C	4	3	1.46	98.81	BIS		FALSE
2004	C	4	4	2.50	98.46	BIS		FALSE
2004	C	4	5	4.88	98.38	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	C	4	6	7.44	98.14	EW		FALSE
2004	C	4	7	8.14	98.01	TW		FALSE
2004	C	4	8	8.72	98.14	EW		FALSE
2004	C	4	9	10.03	98.65	BF		FALSE
2004	C	4	10	10.67	98.89	TOB		FALSE
2004	C	4	11	11.58	99.23	BIS		FALSE
2004	C	4	12	11.92	99.73	Top X 4 R		FALSE
						Reb/low		
2004	C	4	13	11.92	100.01	Bot X 4 R		FALSE
						Reb/low		
2004	C	5	1	0.00	100.00	Top X 5 L		FALSE
						Reb/low		
2004	C	5	2	0.00	99.54	Bot X 5 L Re-		FALSE
						b/low		
2004	C	5	3	0.98	99.09	BIS		FALSE
2004	C	5	4	1.83	98.94	BIS		FALSE
2004	C	5	5	4.88	98.59	BIS		FALSE
2004	C	5	6	5.91	98.57	SB *sand		FALSE
						bank on right		
						side of log		
2004	C	5	7	7.10	98.25	EW		FALSE
2004	C	5	8	8.14	98.06	TW		FALSE
2004	C	5	9	8.63	98.25	EW		FALSE
2004	C	5	10	9.60	98.66	BF		FALSE
2004	C	5	11	10.49	98.89	TOB		FALSE
2004	C	5	12	11.58	99.15	BIS		FALSE
2004	C	5	13	12.19	99.61	Bot X 5 R		FALSE
						Reb/low		
2004	C	5	14	12.19	100.11	Top X 5 R		FALSE
						Reb/low		
2004	C	6	1	0.00	100.00	Top X 6 L		FALSE
						Reb/low		
2004	C	6	2	0.00	99.70	Bot X 6 L Re-		FALSE
						b/low		
2004	C	6	3	0.88	98.94	BIS		FALSE
2004	C	6	4	1.83	98.87	TOB		FALSE
2004	C	6	5	2.93	98.39	BF		FALSE
2004	C	6	6	3.72	98.31	BIS		FALSE
2004	C	6	7	4.75	98.03	EW		FALSE
2004	C	6	8	5.30	98.01	SB		FALSE
2004	C	6	9	6.43	97.99	TW		FALSE
2004	C	6	10	8.69	98.06	EW		FALSE
2004	C	6	11	9.45	98.69	TOB		FALSE
2004	C	6	12	10.27	98.77	BIS		FALSE
2004	C	6	13	11.70	99.07	BIS *next to		FALSE
						granite rock		
2004	C	6	14	12.19	99.12	BIS		FALSE
2004	C	6	15	12.98	99.72	Bot X 6 R		FALSE
						Reb/low		
2004	C	6	16	12.98	100.00	Top X 6 R		FALSE
						Reb/low		

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	C	7	1	0.00	100.00	Top X 7 L Reb/low		FALSE
2004	C	7	2	0.00	99.78	Bot X 7 L Re- b/low		FALSE
2004	C	7	3	0.49	99.10	BIS		FALSE
2004	C	7	4	2.41	98.97	TOB		FALSE
2004	C	7	5	2.90	98.34	BIS *on top of down log		FALSE
2004	C	7	6	3.96	98.08	EW		FALSE
2004	C	7	7	4.51	98.00	TW		FALSE
2004	C	7	8	5.58	98.19	SB *top of is- land sand bar		FALSE
2004	C	7	9	6.07	98.13	EW		FALSE
2004	C	7	10	6.95	98.29	BIS		FALSE
2004	C	7	11	7.16	98.39	BF		FALSE
2004	C	7	12	7.68	99.08	TOB		FALSE
2004	C	7	13	10.79	98.63	BIS		FALSE
2004	C	7	14	12.38	99.05	BIS		FALSE
2004	C	7	15	13.44	99.83	Top X 7 R Reb/low		FALSE
2004	C	7	16	13.44	100.02	Bot X 7 R Reb/low		FALSE
2004	C	8	1	0.00	100.00	Top X 8 L Reb/low		FALSE
2004	C	8	2	0.00	99.55	Bot X 8 L Re- b/low	Elevation corrected , higher than top of rebar, seems 2 feet high, un- known reasondp	FALSE
2004	C	8	3	0.49	98.41	BIS		FALSE
2004	C	8	4	1.43	97.94	BF	Elevation corrected, looks like rod not extended	FALSE
2004	C	8	5	2.23	97.73	EW		FALSE
2004	C	8	6	2.74	97.59	TW		FALSE
2004	C	8	7	3.96	97.77	EW		FALSE
2004	C	8	8	4.57	99.15	BIS	log	TRUE
2004	C	8	9	5.64	98.71	BIS		FALSE
2004	C	8	10	6.10	99.10	TOB		FALSE
2004	C	8	11	11.70	98.60	BIS		FALSE
2004	C	8	12	12.98	98.96	BIS		FALSE
2004	C	8	13	14.11	99.67	Bot X 8 R Reb/low		FALSE
2004	C	8	14	14.11	100.06	Top X 8 R Reb/low		FALSE
2004	C	9	1	0.00	100.00	Top X 9 L Reb/low		FALSE
2004	C	9	2	0.00	99.70	Bot X 9 L Re- b/low		FALSE
2004	C	9	3	0.12	98.64	BIS		FALSE
2004	C	9	4	0.85	98.00	BIS		FALSE
2004	C	9	5	2.19	97.67	BIS		FALSE
2004	C	9	6	2.74	97.50	EW		FALSE
2004	C	9	7	4.11	97.53	TW		FALSE
2004	C	9	8	4.85	97.56	EW		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	C	9	9	5.49	98.03	BF		FALSE
2004	C	9	10	6.71	98.61	TOB		FALSE
2004	C	9	11	8.69	98.74	BIS		FALSE
2004	C	9	12	10.97	98.57	BIS		FALSE
2004	C	9	13	13.59	98.53	BIS		FALSE
2004	C	9	14	15.09	98.87	BIS		FALSE
2004	C	9	15	15.85	99.45	Bot X 9 R		FALSE
						Reb/low		
2004	C	9	16	15.85	99.66	Top X 9 R		FALSE
						Reb/low		
2004	C	10	1	0.00	100.00	Top X 10 L	originally R _L L, fixed	FALSE
						Reb/low		
2004	C	10	2	0.00	99.75	Bot X 10 L		FALSE
						Reb/low		
2004	C	10	3	0.55	99.35	BIS		FALSE
2004	C	10	4	1.68	98.80	TOB		FALSE
2004	C	10	5	3.41	98.16	BF		FALSE
2004	C	10	6	5.03	97.61	EW		FALSE
2004	C	10	7	5.85	97.63	SB		FALSE
2004	C	10	8	6.77	97.51	TW		FALSE
2004	C	10	9	8.47	97.56	EW		FALSE
2004	C	10	10	9.21	97.73	BIS		FALSE
2004	C	10	11	10.73	98.03	BIS		FALSE
2004	C	10	12	11.64	98.52	BIS		FALSE
2004	C	10	13	13.26	98.83	BIS		FALSE
2004	C	10	14	16.06	98.95	BIS		FALSE
2004	C	10	15	16.83	99.97	Bot X 10 R		FALSE
						Reb/low		
2004	C	10	16	16.83	100.33	Top X 10 R		FALSE
						Reb/low		
2004	D	1	1	0.00	100.00	Top X 1 L		FALSE
						Reb/HIGH		
2004	D	1	2	0.00	99.67	Bot X 1 L Re-		FALSE
						b/HIGH		
2004	D	1	3	2.16	98.61	BIS		FALSE
2004	D	1	4	3.20	97.65	BIS		FALSE
2004	D	1	5	5.67	97.94	BIS		FALSE
2004	D	1	6	6.13	98.64	BIS		FALSE
2004	D	1	7	7.38	98.58	TOB		FALSE
2004	D	1	8	8.17	97.07	BIS		FALSE
2004	D	1	9	8.93	96.77	EW		FALSE
2004	D	1	10	10.45	96.58	TW		FALSE
2004	D	1	11	11.06	96.70	EW		FALSE
2004	D	1	12	12.62	97.12	BF		FALSE
2004	D	1	13	14.45	97.99	BIS		FALSE
2004	D	1	14	16.28	98.49	BIS		FALSE
2004	D	1	15	17.01	98.86	BIS		FALSE
2004	D	1	16	18.01	100.12	Bot X 1 R		FALSE
						Reb/HIGH		
2004	D	1	17	18.01	100.44	Top X 1 R		FALSE
						Reb/HIGH		

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	D	2	1	0.00	100.00	Top X 2 L		FALSE
						Reb/low		
2004	D	2	2	0.00	99.71	Bot X 2 L Re-		FALSE
						b/low		
2004	D	2	3	0.61	99.68	TOB		FALSE
2004	D	2	4	1.22	98.98	BF		FALSE
2004	D	2	5	2.65	98.51	EW		FALSE
2004	D	2	6	3.72	98.44	TW		FALSE
2004	D	2	7	4.57	98.46	EW		FALSE
2004	D	2	8	6.10	98.96	BIS		FALSE
2004	D	2	9	7.74	99.66	BIS		FALSE
2004	D	2	10	9.39	99.76	Top X 2 R		FALSE
						Reb/low		
2004	D	2	11	9.39	100.00	Bot X 2 R		FALSE
						Reb/low		
2004	D	3	1	0.00	100.00	Top X 3 L		FALSE
						Reb/low		
2004	D	3	2	0.00	99.79	Bot X 3 L Re-	corrected elevation, 1 foot low	FALSE
						b/low		
2004	D	3	3	1.01	99.75	TOB		FALSE
2004	D	3	4	1.55	98.86	BF		FALSE
2004	D	3	5	3.41	98.53	EW		FALSE
2004	D	3	6	4.15	98.30	TW		FALSE
2004	D	3	7	4.54	98.50	EW		FALSE
2004	D	3	8	5.30	99.17	BIS		FALSE
2004	D	3	9	6.40	99.92	BIS		FALSE
2004	D	3	10	7.38	99.17	BIS		FALSE
2004	D	3	11	9.78	99.32	BIS		FALSE
2004	D	3	12	10.64	99.54	BIS		FALSE
2004	D	3	13	11.03	99.91	Bot X 3 R		FALSE
						Reb/low		
2004	D	3	14	11.03	100.00	Top X 3 R		FALSE
						Reb/low		
2004	D	4	1	0.00	100.00	Top X 4 L		FALSE
						Reb/HIGH		
2004	D	4	2	0.00	99.19	Bot X 4 L Re-		FALSE
						b/HIGH		
2004	D	4	3	0.24	99.16	BIS *edge		FALSE
						of redwood		
						stump		
2004	D	4	4	0.82	97.58	BIS *on red-		FALSE
						wood stump		
						rootwad		
2004	D	4	5	1.68	96.41	EW		FALSE
2004	D	4	6	1.92	96.33	TW		FALSE
2004	D	4	7	3.26	96.53	EW		FALSE
2004	D	4	8	5.55	97.10	BF		FALSE
2004	D	4	9	7.41	97.16	BIS		FALSE
2004	D	4	10	9.02	97.69	BIS		FALSE
2004	D	4	11	9.91	98.10	TOB		FALSE
2004	D	4	12	11.89	98.53	BIS		FALSE
2004	D	4	13	12.98	99.76	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	D	4	14	13.87	100.48	Bot X 4 R Reb/HIGH		FALSE
2004	D	4	15	13.87	100.88	Top X 4 R Reb/HIGH		FALSE
2004	D	5	1	0.00	100.00	Top X 5 L Reb/low		FALSE
2004	D	5	2	0.00	99.62	Bot X 5 L Re- b/low		FALSE
2004	D	5	3	1.01	98.40	BIS		FALSE
2004	D	5	4	3.81	98.01	EW		FALSE
2004	D	5	5	4.42	97.90	TW		FALSE
2004	D	5	6	4.97	97.99	EW		FALSE
2004	D	5	7	6.61	98.60	BF		FALSE
2004	D	5	8	8.23	99.51	TOB	distance changed from 47 - obvi- ous typo and 27 fits well.	FALSE
2004	D	5	9	10.85	99.57	Bot X 5 R Reb/low		FALSE
2004	D	5	10	10.85	100.00	Top X 5 R Reb/low		FALSE
2004	D	6	1	0.00	100.00	Top X 6 L Reb/low		FALSE
2004	D	6	2	0.00	99.85	Bot X 6 L Re- b/low		FALSE
2004	D	6	3	0.73	99.70	BIS		FALSE
2004	D	6	4	1.10	98.44	BIS		FALSE
2004	D	6	5	2.04	98.09	BF		FALSE
2004	D	6	6	4.05	97.53	EW		FALSE
2004	D	6	7	6.04	97.55	TW		FALSE
2004	D	6	8	6.25	97.69	EW		FALSE
2004	D	6	9	8.53	99.33	TOB		FALSE
2004	D	6	10	10.00	99.65	Bot X 6 R Reb/low		FALSE
2004	D	6	11	10.00	100.00	Top X 6 R Reb/low		FALSE
2004	D	7	1	0.00	100.00	Top X 7 L Reb/low		FALSE
2004	D	7	2	0.00	99.77	Bot X 7 L Re- b/low		FALSE
2004	D	7	3	0.76	99.75	BIS		TRUE
2004	D	7	4	1.28	98.50	BF		FALSE
2004	D	7	5	2.65	97.86	BIS		FALSE
2004	D	7	6	2.90	97.80	EW		FALSE
2004	D	7	7	3.44	97.65	TW		FALSE
2004	D	7	8	3.96	97.77	EW		FALSE
2004	D	7	9	5.94	98.17	BIS		FALSE
2004	D	7	10	7.01	99.32	BIS		FALSE
2004	D	7	11	7.71	99.77	Top X 7 R Reb/low		FALSE
2004	D	7	12	7.71	99.98	Bot X 7 R Reb/low		FALSE
2004	D	8	1	0.00	100.00	Top X 8 L Reb/low		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	D	8	2	0.00	99.70	Bot X 8 L Re-		FALSE
						b/low		
2004	D	8	3	0.82	99.27	TOB		FALSE
2004	D	8	4	1.46	98.03	BIS		FALSE
2004	D	8	5	2.01	97.85	EW		FALSE
2004	D	8	6	2.59	97.76	TW		FALSE
2004	D	8	7	3.23	97.84	EW		FALSE
2004	D	8	8	4.88	98.02	BIS		FALSE
2004	D	8	9	5.70	98.24	BF		FALSE
2004	D	8	10	6.83	99.80	Bot X 8 R		FALSE
						Reb/low		
2004	D	8	11	6.83	100.01	Top X 8 R		FALSE
						Reb/low		
2004	D	9	1	0.00	100.00	Top X 9 L		FALSE
						Reb/low		
2004	D	9	2	0.00	99.59	Bot X 9 L Re-		FALSE
						b/low		
2004	D	9	3	0.91	98.71	BIS		FALSE
2004	D	9	4	2.87	98.53	EW *on red-		FALSE
						wood log		
2004	D	9	5	3.23	98.40	TW		FALSE
2004	D	9	6	3.96	98.53	EW		FALSE
2004	D	9	7	5.67	98.98	BF		FALSE
2004	D	9	8	6.77	99.08	BIS	corrected, 1 foot low	FALSE
2004	D	9	9	7.25	99.60	Bot X 9 R		FALSE
						Reb/low		
2004	D	9	10	7.25	100.02	Top X 9 R		FALSE
						Reb/low		
2004	D	10	1	0.00	100.00	Top X 10 L		FALSE
						Reb/low		
2004	D	10	2	0.00	99.67	Bot X 10 L		FALSE
						Reb/low		
2004	D	10	3	0.30	99.40	TOB		FALSE
2004	D	10	4	1.22	98.89	BF		FALSE
2004	D	10	5	2.90	98.23	EW		FALSE
2004	D	10	6	3.84	98.10	TW		FALSE
2004	D	10	7	4.82	98.20	EW		FALSE
2004	D	10	8	6.49	98.52	BIS		FALSE
2004	D	10	9	7.41	99.76	Bot X 10 R		FALSE
						Reb/low		
2004	D	10	10	7.41	100.00	Top X 10 R		FALSE
						Reb/low		
2004	E	1	1	0.00	100.00	Top X 1 L		FALSE
						Reb/low		
2004	E	1	2	0.00	99.62	Bot X 1 L Re-		FALSE
						b/low		
2004	E	1	3	0.91	99.25	TOB		FALSE
2004	E	1	4	2.74	98.86	BIS		FALSE
2004	E	1	5	4.15	98.64	BF		FALSE
2004	E	1	6	6.10	98.12	EW		FALSE
2004	E	1	7	6.25	98.02	TW		FALSE
2004	E	1	8	6.77	98.10	EW		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	E	1	9	7.19	99.65	BIS		FALSE
2004	E	1	10	7.50	99.84	Top X 1 R		FALSE
						Reb/low		
2004	E	1	11	7.50	99.89	Bot X 1 R		FALSE
						Reb/low		
2004	E	2	1	0.00	100.00	Top X 2 L		FALSE
						Reb/low		
2004	E	2	2	0.00	99.42	Bot X 2 L Re-		FALSE
						b/low		
2004	E	2	3	0.98	98.52	BIS		FALSE
2004	E	2	4	1.98	98.34	EW		FALSE
2004	E	2	5	2.80	98.25	TW		FALSE
2004	E	2	6	3.17	98.38	EW		FALSE
2004	E	2	7	4.45	98.95	BF		FALSE
2004	E	2	8	5.21	99.39	TOB		FALSE
2004	E	2	9	5.82	99.65	Top X 2 R		FALSE
						Reb/low		
2004	E	2	10	5.82	100.01	Bot X 2 R		FALSE
						Reb/low		
2004	E	3	1	0.00	100.00	Top X 3 L		FALSE
						Reb/low		
2004	E	3	2	0.00	99.52	Bot X 3 L Re-		FALSE
						b/low		
2004	E	3	3	0.91	98.79	BIS		FALSE
2004	E	3	4	1.74	98.43	TOB		FALSE
2004	E	3	5	2.19	97.94	EW		FALSE
2004	E	3	6	3.60	97.76	TW		FALSE
2004	E	3	7	3.81	97.86	EW		FALSE
2004	E	3	8	4.63	98.18	BIS		FALSE
2004	E	3	9	5.03	98.42	BF		FALSE
2004	E	3	10	5.79	99.03	BIS		FALSE
2004	E	3	11	7.28	99.50	Bot X 3 R		FALSE
						Reb/low		
2004	E	3	12	7.28	100.02	Top X 3 R		FALSE
						Reb/low		
2004	E	4	1	0.00	100.00	Top X 4 L		FALSE
						Reb/low		
2004	E	4	2	0.00	99.71	Bot X 4 L Re-		FALSE
						b/low		
2004	E	4	3	0.61	99.39	BIS		FALSE
2004	E	4	4	1.16	98.77	BIS		FALSE
2004	E	4	5	1.58	98.68	BIS		FALSE
2004	E	4	6	2.38	98.63	EW		FALSE
2004	E	4	7	2.74	98.57	TW		FALSE
2004	E	4	8	3.05	98.56	BIS *left side of rock in creek		FALSE
2004	E	4	9	3.96	98.59	BIS *island sand bar on center		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	E	4	10	4.54	98.49	BIS *to right of rock, edge of sand bar		FALSE
2004	E	4	11	4.88	98.51	EW		FALSE
2004	E	4	12	5.06	98.66	BIS		FALSE
2004	E	4	13	5.61	98.75	BF		FALSE
2004	E	4	14	5.88	99.43	TOB		FALSE
2004	E	4	15	7.71	99.74	Top X 4 R Reb/low		FALSE
2004	E	4	16	7.71	100.00	Bot X 4 R Reb/low		FALSE
2004	E	5	1	0.00	100.00	Top X4L		FALSE
2004	E	5	2	0.00	99.67	Bot X4L		FALSE
2004	E	5	3	0.94	99.43	BIS		FALSE
2004	E	5	4	1.65	98.93	BIS		FALSE
2004	E	5	5	2.77	98.66	EW		FALSE
2004	E	5	6	3.51	98.53	TW		FALSE
2004	E	5	7	3.99	98.51	Pool in Creek		FALSE
2004	E	5	8	4.27	98.57	EW	on top of small rocks	FALSE
2004	E	5	9	4.72	99.22	BF		FALSE
2004	E	5	10	5.73	99.73	TOB		FALSE
2004	E	5	11	7.89	99.89	BOT X5R		FALSE
2004	E	5	12	7.89	100.30	TOP X5R		FALSE
2004	E	6	1	0.00	100.00	Top X 6 L Reb/low		FALSE
2004	E	6	2	0.00	99.54	Bot X 6 L Re- b/low		FALSE
2004	E	6	3	0.15	99.44	BIS		FALSE
2004	E	6	4	0.61	98.78	BIS		FALSE
2004	E	6	5	1.16	98.34	EW *next to rock		FALSE
2004	E	6	6	1.83	98.24	TW		FALSE
2004	E	6	7	2.62	98.37	EW *next to rock		FALSE
2004	E	6	8	3.51	98.57	BIS		FALSE
2004	E	6	9	4.08	98.52	BIS		FALSE
2004	E	6	10	4.36	98.77	BF		FALSE
2004	E	6	11	4.69	99.45	TOB		FALSE
2004	E	6	12	5.36	99.63	Bot X 6 R Reb/low		FALSE
2004	E	6	13	5.36	100.00	Top X 6 R Reb/low		FALSE
2004	E	7	1	0.00	100.00	Top X 7 L Reb/low		FALSE
2004	E	7	2	0.00	99.72	Bot X 7 L Re- b/low		FALSE
2004	E	7	3	0.85	99.38	BIS		FALSE
2004	E	7	4	1.01	98.86	BIS		FALSE
2004	E	7	5	1.40	98.49	EW		FALSE
2004	E	7	6	1.65	98.38	BIS *pool in creek		FALSE
2004	E	7	7	2.13	98.38	TW		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	E	7	8	3.93	98.54	EW		FALSE
2004	E	7	9	4.57	98.99	BF	*on granite rock	FALSE
2004	E	7	10	4.69	99.60	TOB		FALSE
2004	E	7	11	5.06	99.77	BIS *next to rock		FALSE
2004	E	7	12	6.49	99.66	Top X 7 R Reb/low		FALSE
2004	E	7	13	6.49	100.00	Bot X 7 R Reb/low		FALSE
2004	E	8	1	0.00	100.00	Top X 8 L Reb/low		FALSE
2004	E	8	2	0.00	99.61	Bot X 8 L Re- b/low		FALSE
2004	E	8	3	0.21	99.52	BIS		FALSE
2004	E	8	4	0.73	99.22	BF		FALSE
2004	E	8	5	0.94	98.75	BIS		FALSE
2004	E	8	6	1.37	98.64	EW		FALSE
2004	E	8	7	2.01	98.57	TW		FALSE
2004	E	8	8	2.53	98.53	EW		FALSE
2004	E	8	9	3.38	98.54	BIS		FALSE
2004	E	8	10	3.51	98.72	BIS		FALSE
2004	E	8	11	3.96	98.82	BIS		FALSE
2004	E	8	12	4.21	99.41	TOB		FALSE
2004	E	8	13	4.42	99.55	BIS		FALSE
2004	E	8	14	6.64	99.73	Bot X 8 R Reb/low		FALSE
2004	E	8	15	6.64	99.99	Top X 8 R Reb/low		FALSE
2004	E	9	1	0.00	100.00	Top X 9 L Reb/low		FALSE
2004	E	9	2	0.00	99.51	Bot X 9 L Re- b/low		FALSE
2004	E	9	3	0.67	98.96	BIS		FALSE
2004	E	9	4	1.07	98.46	BIS		FALSE
2004	E	9	5	1.65	97.92	BIS		FALSE
2004	E	9	6	3.02	97.68	EW		FALSE
2004	E	9	7	3.78	97.60	TW		FALSE
2004	E	9	8	4.82	97.68	EW		FALSE
2004	E	9	9	5.49	97.75	BIS		FALSE
2004	E	9	10	5.76	97.87	BF		FALSE
2004	E	9	11	6.61	98.06	BIS	was 3' off, corrected	FALSE
2004	E	9	12	7.16	98.46	BIS		FALSE
2004	E	9	13	7.38	98.95	BIS		FALSE
2004	E	9	14	7.68	99.06	BIS		FALSE
2004	E	9	15	7.92	99.65	TOB		FALSE
2004	E	9	16	8.11	99.69	Bot X 9 R Reb/low		FALSE
2004	E	9	17	8.11	99.98	Top X 9 R Reb/low		FALSE
2004	E	10	1	0.00	100.00	Top X 10 L Reb/low		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	E	10	2	0.00	99.65	Bot X 10 L		FALSE
						Reb/low		
2004	E	10	3	0.52	99.31	BIS		FALSE
2004	E	10	4	0.70	98.79	BIS		FALSE
2004	E	10	5	1.22	98.50	BIS		FALSE
2004	E	10	6	1.37	98.32	BIS		FALSE
2004	E	10	7	2.29	98.10	EW		FALSE
2004	E	10	8	3.08	98.00	TW		FALSE
2004	E	10	9	3.35	98.09	EW		FALSE
2004	E	10	10	3.81	98.19	BIS		FALSE
2004	E	10	11	3.99	98.40	BF		FALSE
2004	E	10	12	5.00	98.62	BIS		FALSE
2004	E	10	13	5.30	99.16	TOB		FALSE
2004	E	10	14	6.40	99.71	BIS		FALSE
2004	E	10	15	7.07	99.93	Bot X 10 R		FALSE
						Reb/low		
2004	E	10	16	7.07	100.15	Top X 10 R		FALSE
						Reb/low		
2004	F	1	1	0.00	100.00	Top X 1 L		FALSE
						Reb/low		
2004	F	1	2	0.00	99.98	Bot X 1 L Re-		FALSE
						b/low		
2004	F	1	3	1.04	99.12	TOB		FALSE
2004	F	1	4	2.74	98.59	BF		FALSE
2004	F	1	5	4.97	98.10	BIS		FALSE
2004	F	1	6	5.79	97.97	EW		FALSE
2004	F	1	7	5.94	97.89	TW		FALSE
2004	F	1	8	6.07	97.99	EW		FALSE
2004	F	1	9	7.41	98.27	BIS		FALSE
2004	F	1	10	8.72	99.28	BIS		FALSE
2004	F	1	11	9.45	99.73	Top X 1 R		FALSE
						Reb/low		
2004	F	1	12	9.45	99.82	Bot X 1 R		FALSE
						Reb/low		
2004	F	2	1	0.00	100.00	Top X 2 L		FALSE
						Reb/low		
2004	F	2	2	0.00	99.80	Bot X 2 L Re-		FALSE
						b/low		
2004	F	2	3	1.58	98.88	TOB		FALSE
2004	F	2	4	2.53	98.44	BID		FALSE
2004	F	2	5	2.68	98.01	BF		FALSE
2004	F	2	6	4.57	97.50	EW		FALSE
2004	F	2	7	4.88	97.38	TW		FALSE
2004	F	2	8	5.33	97.45	EW		FALSE
2004	F	2	9	6.64	97.68	BIS		FALSE
2004	F	2	10	8.08	98.46	BIS		FALSE
2004	F	2	11	8.47	99.75	BIS		FALSE
2004	F	2	12	8.72	99.85	Top X 2 R		FALSE
						Reb/low		
2004	F	2	13	8.72	99.91	Bot X 2 R		FALSE
						Reb/low		

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	F	3	1	0.00	100.00	Top X 3 L		FALSE
						Reb/low		
2004	F	3	2	0.00	99.85	Bot X 3 L Re-		FALSE
						b/low		
2004	F	3	3	1.10	99.40	TOB		FALSE
2004	F	3	4	1.40	98.59	BF		FALSE
2004	F	3	5	3.96	98.07	EW		FALSE
2004	F	3	6	4.75	97.83	TW		FALSE
2004	F	3	7	5.12	97.96	EW		FALSE
2004	F	3	8	6.10	98.52	BIS		FALSE
2004	F	3	9	7.10	99.27	BIS		FALSE
2004	F	3	10	7.77	99.99	Bot X 3 R		FALSE
						Reb/low		
2004	F	3	11	7.77	100.06	Top X 3 R		FALSE
						Reb/low		
2004	F	4	1	0.00	100.00	Top X 4 L		FALSE
						Reb/low		
2004	F	4	2	0.00	99.91	Bot X 4 L Re-		FALSE
						b/low		
2004	F	4	3	1.22	99.09	BIS		FALSE
2004	F	4	4	1.92	98.75	TOB		FALSE
2004	F	4	5	2.35	98.07	BF		FALSE
2004	F	4	6	4.30	97.58	EW		FALSE
2004	F	4	7	5.09	97.33	TW		FALSE
2004	F	4	8	6.28	97.47	EW		FALSE
2004	F	4	9	7.01	98.53	BIS		FALSE
2004	F	4	10	8.02	99.60	BIS		FALSE
2004	F	4	11	8.87	99.89	Top X 4 R		FALSE
						Reb/low		
2004	F	4	12	8.87	100.10	Bot X 4 R		FALSE
						Reb/low		
2004	F	5	1	0.00	100.00	Top X 5 L		FALSE
						Reb/low		
2004	F	5	2	0.00	99.95	Bot X 5 L Re-		FALSE
						b/low		
2004	F	5	3	0.91	99.14	TOB		FALSE
2004	F	5	4	1.62	98.80	BF		FALSE
2004	F	5	5	3.23	98.27	EW		FALSE
2004	F	5	6	4.33	98.21	TW		FALSE
2004	F	5	7	4.75	98.24	EW		FALSE
2004	F	5	8	5.94	98.44	BIS		FALSE
2004	F	5	9	7.10	99.26	BIS		FALSE
2004	F	5	10	7.71	99.79	Bot X 5 R		FALSE
						Reb/low		
2004	F	5	11	7.71	99.87	Top X 5 R		FALSE
						Reb/low		
2004	F	6	1	0.00	100.00	Top X 6 L		FALSE
						Reb/low		
2004	F	6	2	0.00	99.89	Bot X 6 L Re-		FALSE
						b/low		
2004	F	6	3	0.61	99.43	BIS		FALSE
2004	F	6	4	1.52	98.92	BF		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	F	6	5	2.74	98.29	BIS		FALSE
2004	F	6	6	3.84	98.21	EW		FALSE
2004	F	6	7	4.24	98.03	TW		FALSE
2004	F	6	8	4.97	98.19	EW		FALSE
2004	F	6	9	5.79	98.93	BIS *on boulder		FALSE
2004	F	6	10	6.71	99.21	TOB		FALSE
2004	F	6	11	7.80	99.54	BIS		FALSE
2004	F	6	12	8.41	99.85	Bot X 6 R		FALSE
						Reb/low		
2004	F	6	13	8.41	99.97	Top X 6 R		FALSE
						Reb/low		
2004	F	7	1	0.00	100.00	Top X 7 L		FALSE
						Reb/low		
2004	F	7	2	0.00	99.92	Bot X 7 L Re-		FALSE
						b/low		
2004	F	7	3	0.85	99.09	BIS		FALSE
2004	F	7	4	1.22	98.71	BIS		FALSE
2004	F	7	5	1.89	98.43	EW		FALSE
2004	F	7	6	2.71	98.35	TW		FALSE
2004	F	7	7	3.05	98.42	EW		FALSE
2004	F	7	8	3.26	98.45	BIS		FALSE
2004	F	7	9	4.02	98.58	BF		FALSE
2004	F	7	10	4.27	98.67	TOB		FALSE
2004	F	7	11	5.67	99.01	BIS		FALSE
2004	F	7	12	7.25	99.30	BIS		FALSE
2004	F	7	13	8.69	99.81	Top X 7 R		FALSE
						Reb/low		
2004	F	7	14	8.69	99.95	Bot X 7 R		FALSE
						Reb/low		
2004	F	8	1	0.00	100.00	Top X 8 L		FALSE
						Reb/low		
2004	F	8	2	0.00	99.84	Bot X 8 L Re-		FALSE
						b/low		
2004	F	8	3	0.94	99.15	BIS		FALSE
2004	F	8	4	1.10	98.62	BIS		FALSE
2004	F	8	5	2.01	98.20	BIS *on rock		FALSE
2004	F	8	6	2.44	97.80	BIS *left of		FALSE
						sandy bar		
2004	F	8	7	3.05	97.80	EW		FALSE
2004	F	8	8	3.66	97.68	TW		FALSE
2004	F	8	9	4.57	97.81	EW		FALSE
2004	F	8	10	4.88	98.16	BF		FALSE
2004	F	8	11	5.33	98.45	TOB		FALSE
2004	F	8	12	7.32	98.78	BIS		FALSE
2004	F	8	13	9.02	98.78	BIS		FALSE
2004	F	8	14	9.85	99.39	BIS		FALSE
2004	F	8	15	11.31	99.83	BIS		FALSE
2004	F	8	16	12.71	99.84	Bot X 8 R		FALSE
						Reb/low		
2004	F	8	17	12.71	100.04	Top X 8 R		FALSE
						Reb/low		

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2004	F	9	1	0.00	100.00	Top X 9 L		FALSE
						Reb/low		
2004	F	9	2	0.00	99.78	Bot X 9 L Re-		FALSE
						b/low		
2004	F	9	3	0.37	99.27	BIS		FALSE
2004	F	9	4	1.55	98.74	BF		FALSE
2004	F	9	5	2.07	98.56	BIS		FALSE
2004	F	9	6	2.32	98.45	EW		FALSE
2004	F	9	7	3.35	98.29	TW		FALSE
2004	F	9	8	3.75	98.37	EW *next to		FALSE
						rock		
2004	F	9	9	4.30	99.03	TOB		FALSE
2004	F	9	10	6.19	99.21	BIS		FALSE
2004	F	9	11	7.07	99.02	BIS		FALSE
2004	F	9	12	9.88	99.11	BIS		FALSE
2004	F	9	13	11.22	99.73	Bot X 9 R		FALSE
						Reb/low		
2004	F	9	14	11.22	99.95	Top X 9 R		FALSE
						Reb/low		
2004	F	10	1	0.00	100.00	Top X 10 L		FALSE
						Reb/low		
2004	F	10	2	0.00	99.78	Bot X 10 L		FALSE
						Reb/low		
2004	F	10	3	0.37	98.92	BIS		FALSE
2004	F	10	4	1.34	98.45	BIS		FALSE
2004	F	10	5	1.55	98.38	EW		FALSE
2004	F	10	6	2.10	98.26	TW		FALSE
2004	F	10	7	2.83	98.36	EW *left side		FALSE
						of rock (creek		
						side)		
2004	F	10	8	3.14	98.52	BIS *right		FALSE
						side of rock		
2004	F	10	9	4.11	98.82	BF		FALSE
2004	F	10	10	4.36	99.13	TOB *rocky		FALSE
2004	F	10	11	5.30	99.27	BIS *rocky		FALSE
2004	F	10	12	9.02	98.90	BIS		FALSE
2004	F	10	13	9.78	99.65	Bot X 10 R		FALSE
						Reb/low		
2004	F	10	14	9.78	99.79	Top X 10 R		FALSE
						Reb/low		
2005	A	1	1	0.00	100.00	TOP X1R	Top X1L reb/low	FALSE
2005	A	1	2	0.00	99.86	BOT X1R	Bot X1L reb/low	FALSE
2005	A	1	3	1.40	99.57	BIS		FALSE
2005	A	1	4	2.44	99.38	TOB		FALSE
2005	A	1	5	3.11	99.24	BIS		FALSE
2005	A	1	6	3.54	99.00	BF		FALSE
2005	A	1	7	4.30	98.75	EW		FALSE
2005	A	1	8	4.97	98.59	TW		FALSE
2005	A	1	9	5.70	98.73	EW		FALSE
2005	A	1	10	6.46	99.02	BIS		FALSE
2005	A	1	11	7.47	99.42	TOB		FALSE
2005	A	1	12	8.72	99.60	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	A	1	13	9.08	99.81	BOT X1R	Bot X1R reb/low	FALSE
2005	A	1	14	9.08	100.00	TOP X1R	Top X1R reb/low	FALSE
2005	A	2	1	0.00	100.00	TOP X2L	Top X2L reb/low	FALSE
2005	A	2	2	0.00	99.66	BOT X2L	Bot X2L reb/low	FALSE
2005	A	2	3	1.01	99.49	TOB		FALSE
2005	A	2	4	2.19	98.97	BIS		FALSE
2005	A	2	5	3.87	98.44	BIS		FALSE
2005	A	2	6	4.97	98.17	EW		FALSE
2005	A	2	7	5.73	98.02	TW		FALSE
2005	A	2	8	6.52	98.06	EW		FALSE
2005	A	2	9	6.68	98.70	BIS	Top of Boulder	TRUE
2005	A	2	10	7.04	98.91	BIS	Top of Log (fell across)	TRUE
2005	A	2	11	7.32	98.50	BF		FALSE
2005	A	2	12	8.20	98.74	BIS		FALSE
2005	A	2	13	8.53	99.16	BIS		FALSE
2005	A	2	14	9.42	98.96	BIS		FALSE
2005	A	2	15	10.67	99.70	Bot X2R	Bot X2R reb/low	FALSE
2005	A	2	16	10.67	100.00	Top X2R	Top X2R reb/low	FALSE
2005	A	3	1	0.00	100.00	TOP X3L	Top X3L reb/low	FALSE
2005	A	3	2	0.00	99.50	BOT X3L	Bot X3L reb/low	FALSE
2005	A	3	3	1.22	98.83	TOB		FALSE
2005	A	3	4	1.92	98.22	BIS		FALSE
2005	A	3	5	2.10	98.21	BF		FALSE
2005	A	3	6	2.26	97.95	BIS		FALSE
2005	A	3	7	2.53	97.89	EW		FALSE
2005	A	3	8	3.63	97.77	TW		FALSE
2005	A	3	9	4.69	97.90	EW		FALSE
2005	A	3	10	5.24	98.11	BIS		FALSE
2005	A	3	11	5.91	98.44	BIS		FALSE
2005	A	3	12	8.44	98.64	BIS		FALSE
2005	A	3	13	9.05	98.92	BIS		FALSE
2005	A	3	14	10.12	99.39	TOB		FALSE
2005	A	3	15	10.67	99.68	BOT X3R	Bot X3R reb/low	FALSE
2005	A	3	16	10.67	100.10	TOP X3R	Top X3R reb/low	FALSE
2005	A	4	1	0.00	100.00	TOP X4L	Top X4L reb/low	FALSE
2005	A	4	2	0.00	99.72	BOT X4L	Bot X4L reb/low	FALSE
2005	A	4	3	0.98	99.53	TOB		FALSE
2005	A	4	4	2.35	99.29	BIS		FALSE
2005	A	4	5	2.74	98.70	BIS		FALSE
2005	A	4	6	3.20	98.55	EW		FALSE
2005	A	4	7	4.75	98.47	TW		FALSE
2005	A	4	8	5.67	98.54	EW		FALSE
2005	A	4	9	6.64	98.81	BF		FALSE
2005	A	4	10	7.62	99.09	BIS		FALSE
2005	A	4	11	8.66	99.49	BOT X4R	Bot X4R reb/low	FALSE
2005	A	4	12	8.66	99.83	TOP X4R	Top X4R reb/low	FALSE
2005	A	5	1	0.00	100.00	TOP X5L	Top X5L reb/low	FALSE
2005	A	5	2	0.00	99.74	BOT X5L	Bot X5L reb/low	FALSE
2005	A	5	3	1.04	99.76	TOB		FALSE
2005	A	5	4	2.23	99.07	BIS		FALSE
2005	A	5	5	2.99	98.68	EW		FALSE
2005	A	5	6	4.18	98.44	TW		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	A	5	7	5.09	98.58	EW		FALSE
2005	A	5	8	5.18	98.95	BIS	Top of Boulder	FALSE
2005	A	5	9	5.79	98.86	BF		FALSE
2005	A	5	10	6.34	99.14	BIS		FALSE
2005	A	5	11	6.92	99.34	BIS		FALSE
2005	A	5	12	7.38	99.57	TOB		FALSE
2005	A	5	13	7.77	99.62	BOT X5R	Bot X5R reb/low	FALSE
2005	A	5	14	7.77	99.98	TOP X5R	Top X5R reb/low	FALSE
2005	A	6	1	0.00	100.00	TOP X6L	Top X6L reb/low	FALSE
2005	A	6	2	0.00	99.77	BOT X6L	Bot X6L reb/low	FALSE
2005	A	6	3	0.37	99.64	TOB		FALSE
2005	A	6	4	0.67	98.54	BIS		FALSE
2005	A	6	5	1.28	98.08	EW		FALSE
2005	A	6	6	2.68	97.97	TW		FALSE
2005	A	6	7	3.90	98.05	EW		FALSE
2005	A	6	8	4.57	98.68	BF		FALSE
2005	A	6	9	5.79	99.05	BIS		FALSE
2005	A	6	10	7.65	99.23	TOB		FALSE
2005	A	6	11	9.91	99.17	BIS		FALSE
2005	A	6	12	12.19	99.09	BIS		FALSE
2005	A	6	13	14.66	99.14	BIS		FALSE
2005	A	6	14	15.09	99.41	BOT X6R	Bot X6R reb/low	FALSE
2005	A	6	15	15.09	99.82	TOP X6R	Top X6R reb/low	FALSE
2005	A	7	1	0.00	100.00	TOP X7L	Top X7L reb/low	FALSE
2005	A	7	2	0.00	99.75	BOT X7L	Bot X7L reb/low	FALSE
2005	A	7	3	0.98	99.61	TOB		FALSE
2005	A	7	4	1.04	99.18	BIS		FALSE
2005	A	7	5	1.52	98.60	BIS		FALSE
2005	A	7	6	1.89	98.74	BIS	On top of rock	FALSE
2005	A	7	7	2.53	98.59	BIS	On top of rock	FALSE
2005	A	7	8	2.71	98.26	EW		FALSE
2005	A	7	9	3.23	98.18	TW		FALSE
2005	A	7	10	4.30	98.27	EW		FALSE
2005	A	7	11	4.88	98.46	BIS		FALSE
2005	A	7	12	5.43	98.70	BF		FALSE
2005	A	7	13	7.01	99.00	BIS		FALSE
2005	A	7	14	7.62	99.09	BIS		FALSE
2005	A	7	15	9.02	99.43	TOB		FALSE
2005	A	7	16	13.29	99.46	BIS		FALSE
2005	A	7	17	16.15	99.30	BIS		FALSE
2005	A	7	18	17.68	99.42	BIS		FALSE
2005	A	7	19	18.59	99.84	BOT X7R	Bot X7R reb/low	FALSE
2005	A	7	20	18.59	100.21	TOP X7R	Top X7R reb/low	FALSE
2005	A	8	1	0.00	100.00	TOP X8L	Top X8L reb/low	FALSE
2005	A	8	2	0.00	99.63	BOT X8L	Bot X8L reb/low	FALSE
2005	A	8	3	0.70	99.53	TOB		FALSE
2005	A	8	4	1.13	98.42	BIS		FALSE
2005	A	8	5	2.10	98.21	BIS		FALSE
2005	A	8	6	2.87	98.09	BIS		FALSE
2005	A	8	7	3.29	98.04	BIS	sandbar	FALSE
2005	A	8	8	3.60	98.01	EW		FALSE
2005	A	8	9	4.48	97.91	TW		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	A	8	10	5.27	98.02	EW		FALSE
2005	A	8	11	5.76	98.23	BIS		FALSE
2005	A	8	12	6.19	98.37	BF		FALSE
2005	A	8	13	8.08	98.74	BIS		FALSE
2005	A	8	14	9.57	98.77	BIS		FALSE
2005	A	8	15	11.03	98.94	BIS		FALSE
2005	A	8	16	12.65	99.22	TOB		FALSE
2005	A	8	17	15.45	99.08	BIS		FALSE
2005	A	8	18	16.46	99.00	BIS		FALSE
2005	A	8	19	17.83	99.13	BIS		FALSE
2005	A	8	20	19.51	99.64	BOT X8R	Bot X8R reb/low	FALSE
2005	A	8	21	19.51	100.11	TOP X8R	Top X8R reb/low	FALSE
2005	A	9	1	0.00	100.00	TOP X9L	Top X9L reb/low	FALSE
2005	A	9	2	0.00	99.63	BOT X9L	Bot X9L reb/low	FALSE
2005	A	9	3	0.70	99.69	TOB		FALSE
2005	A	9	4	0.98	98.71	BIS		FALSE
2005	A	9	5	2.41	98.57	BIS		FALSE
2005	A	9	6	3.32	98.46	BF		FALSE
2005	A	9	7	4.42	98.19	EW		FALSE
2005	A	9	8	5.09	98.09	TW		FALSE
2005	A	9	9	6.25	98.20	EW		FALSE
2005	A	9	10	6.86	98.22	BIS	edge of sandbar	FALSE
2005	A	9	11	8.08	98.59	BF		FALSE
2005	A	9	12	9.91	98.91	BIS		FALSE
2005	A	9	13	12.56	99.13	BIS		FALSE
2005	A	9	14	13.08	99.38	TOB		FALSE
2005	A	9	15	17.62	99.24	BIS		FALSE
2005	A	9	16	19.81	99.51	BIS		FALSE
2005	A	9	17	20.48	99.88	BOT X9R	Bot X9R reb/low	FALSE
2005	A	9	18	20.48	100.24	TOP X9R	Top X9R reb/low	FALSE
2005	A	10	1	0.00	100.00	TOP X10L	Top X10L reb/low	FALSE
2005	A	10	2	0.00	99.57	BOT X10L	Bot X10L reb/low	FALSE
2005	A	10	3	0.43	99.55	TOB		FALSE
2005	A	10	4	0.58	98.58	BIS		FALSE
2005	A	10	5	1.92	98.52	BIS		FALSE
2005	A	10	6	2.44	98.45	BF		FALSE
2005	A	10	7	3.05	98.34	BIS		FALSE
2005	A	10	8	3.84	98.25	BIS		FALSE
2005	A	10	9	4.88	98.13	BIS		FALSE
2005	A	10	10	5.46	98.08	BIS		FALSE
2005	A	10	11	5.76	97.91	EW		FALSE
2005	A	10	12	6.37	97.56	BIS	In a pool	FALSE
2005	A	10	13	7.22	97.66	BIS		FALSE
2005	A	10	14	7.32	97.66	BIS		FALSE
2005	A	10	15	7.68	98.09	RI	on top of lg. boulder	FALSE
2005	A	10	16	8.29	97.77	BIS		FALSE
2005	A	10	17	8.66	97.65	TW		FALSE
2005	A	10	18	9.05	97.63	EW		FALSE
2005	A	10	19	9.42	98.24	BIS	on top of lg. boulder	FALSE
2005	A	10	20	10.18	98.17	BF		FALSE
2005	A	10	21	10.61	98.65	VIS		FALSE
2005	A	10	22	11.49	98.79	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	A	10	23	12.47	98.91	TOB	Bot X10R reb/low	FALSE
2005	A	10	24	15.03	99.01	BIS	Top X10R reb/low	FALSE
2005	B	1	1	0.00	100.00		Top X1L reb/low	FALSE
2005	B	1	2	0.00	99.86		Bot X1L reb/low	FALSE
2005	B	1	3	0.43	99.22	BIS	on boulder	FALSE
2005	B	1	4	0.91	98.50	BIS		FALSE
2005	B	1	5	1.25	98.30	BIS		FALSE
2005	B	1	6	1.65	98.16	BIS		FALSE
2005	B	1	7	2.19	97.90	BF		FALSE
2005	B	1	8	2.83	97.64	EW		FALSE
2005	B	1	9	4.30	97.56	TW		FALSE
2005	B	1	10	5.46	97.62	BIS	in stream	FALSE
2005	B	1	11	6.40	97.64	EW		FALSE
2005	B	1	12	7.07	97.81	BIS		FALSE
2005	B	1	13	7.59	98.13	BIS	on boulder	FALSE
2005	B	1	14	8.05	98.46	BIS		FALSE
2005	B	1	15	8.66	98.77	BIS		FALSE
2005	B	1	16	9.08	99.10	BIS		FALSE
2005	B	1	17	9.69	99.50	BIS		FALSE
2005	B	1	18	10.06	99.84	BOT X1R	Bot X1R reb/low	FALSE
2005	B	1	19	10.06	99.99	TOP X1R	Top X1R reb/low	FALSE
2005	B	2	1	0.00	100.00		Top X2L reb/low	FALSE
2005	B	2	2	0.00	99.61		Bot X2L reb/low	FALSE
2005	B	2	3	0.34	99.04	BIS		FALSE
2005	B	2	4	1.19	98.75	BIS		FALSE
2005	B	2	5	1.74	98.42	BIS		FALSE
2005	B	2	6	2.13	98.04	BIS		FALSE
2005	B	2	7	2.59	97.72	BIS		FALSE
2005	B	2	8	2.93	97.51	BF		FALSE
2005	B	2	9	4.36	97.43	EW		FALSE
2005	B	2	10	5.33	97.32	TW		FALSE
2005	B	2	11	6.68	97.43	EW		FALSE
2005	B	2	12	7.38	97.57	BIS		FALSE
2005	B	2	13	8.11	97.91	BIS		FALSE
2005	B	2	14	8.69	98.33	BIS	Log Debris	FALSE
2005	B	2	15	9.11	98.62	BIS		FALSE
2005	B	2	16	9.63	99.10	BIS		FALSE
2005	B	2	17	10.09	99.32	BIS		FALSE
2005	B	2	18	10.52	99.52	BOT X2R	Bot X2R reb/low	FALSE
2005	B	2	19	10.52	100.00	TOP X2R	Top X2R reb/low	FALSE
2005	B	3	1	0.00	100.00		Top X3L reb/low	FALSE
2005	B	3	2	0.00	99.45		Bot X3L reb/low	FALSE
2005	B	3	3	0.64	99.03	BIS		FALSE
2005	B	3	4	1.16	98.79	BIS		FALSE
2005	B	3	5	1.71	98.39	BIS	on boulder	FALSE
2005	B	3	6	2.13	98.16	BF		FALSE
2005	B	3	7	2.59	98.16	BIS	sand	FALSE
2005	B	3	8	4.27	98.05	EW		FALSE
2005	B	3	9	5.09	97.94	TW		FALSE
2005	B	3	10	6.07	98.07	EW		FALSE
2005	B	3	11	6.77	98.48	BIS		FALSE
2005	B	3	12	7.13	98.66	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	B	3	13	7.47	98.86	BIS		FALSE
2005	B	3	14	7.89	99.07	BIS		FALSE
2005	B	3	15	8.17	99.30	BIS		FALSE
2005	B	3	16	8.44	99.82	BOT X3R	Bot X3R reb/low	FALSE
2005	B	3	17	8.44	99.98	TOP X3R	Top X3R reb/low	FALSE
2005	B	4	1	0.00	100.00		Top X4L reb/low	FALSE
2005	B	4	2	0.00	99.85		Bot X4L reb/low	FALSE
2005	B	4	3	0.49	99.70	BIS		FALSE
2005	B	4	4	1.01	99.55	BIS		FALSE
2005	B	4	5	1.37	99.45	TOB		FALSE
2005	B	4	6	1.71	98.84	BF		FALSE
2005	B	4	7	2.23	98.64	BIS	small side pool	FALSE
2005	B	4	8	2.93	98.76	BIS		FALSE
2005	B	4	9	3.75	98.85	BIS	on top of boulders and *(below)	FALSE
2005	B	4	10	4.27	98.63	EW		FALSE
2005	B	4	11	5.40	98.68	BIS	rock step	FALSE
2005	B	4	12	5.94	98.62	TW	rock step	FALSE
2005	B	4	13	6.55	98.68	EW		FALSE
2005	B	4	14	6.80	98.84	BIS		FALSE
2005	B	4	15	7.01	99.10	BIS	on boulder	FALSE
2005	B	4	16	7.38	99.51	BOT X4R	Bot X4R reb/low	FALSE
2005	B	4	17	7.38	100.02	TOP X4R	Top X4R reb/low	FALSE
2005	B	5	1	0.00	100.00		Top X5L reb/low	FALSE
2005	B	5	2	0.00	99.68		Bot X5L reb/low	FALSE
2005	B	5	3	0.43	99.19	BIS		FALSE
2005	B	5	4	0.73	98.99	BIS		FALSE
2005	B	5	5	1.31	98.63	BIS		FALSE
2005	B	5	6	1.95	98.31	BIS		FALSE
2005	B	5	7	2.87	98.06	BIS		FALSE
2005	B	5	8	3.26	97.96	BIS		FALSE
2005	B	5	9	4.30	97.77	EW		FALSE
2005	B	5	10	5.18	97.70	TW		FALSE
2005	B	5	11	6.19	97.85	EW	on rock	FALSE
2005	B	5	12	6.86	97.94	BF		FALSE
2005	B	5	13	7.01	98.28	BIS		FALSE
2005	B	5	14	7.32	98.58	BIS		FALSE
2005	B	5	15	7.74	99.34	BIS		FALSE
2005	B	5	16	8.17	99.84	BOT X5R	Bot X5R reb/low	FALSE
2005	B	5	17	8.17	99.99	TOP X5R	Top X5R reb/low	FALSE
2005	B	6	1	0.00	100.00		Top X6L reb/low	FALSE
2005	B	6	2	0.00	99.95		Bot X6L reb/low	FALSE
2005	B	6	3	0.55	99.49	BIS		FALSE
2005	B	6	4	1.25	99.26	BIS		FALSE
2005	B	6	5	1.74	99.03	BIS		FALSE
2005	B	6	6	2.29	98.74	BIS		FALSE
2005	B	6	7	3.26	98.36	EW		FALSE
2005	B	6	8	4.33	98.16	TW		FALSE
2005	B	6	9	5.24	98.34	EW		FALSE
2005	B	6	10	5.70	98.54	BIS		FALSE
2005	B	6	11	6.98	98.98	BIS		FALSE
2005	B	6	12	7.44	99.37	BIS		FALSE
2005	B	6	13	7.96	99.87	BOT X6R	Bot X6R reb/low	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	B	6	14	7.96	100.00	TOP X6R	Top X6R reb/low	FALSE
2005	B	7	1	0.00	100.00		Top X7L reb/low	FALSE
2005	B	7	2	0.00	99.44		Bot X7L reb/low	FALSE
2005	B	7	3	0.55	99.04	BIS		FALSE
2005	B	7	4	0.91	98.84	BIS		FALSE
2005	B	7	5	1.28	98.65	BIS		FALSE
2005	B	7	6	1.80	98.36	BIS		FALSE
2005	B	7	7	2.44	98.20	BIS		FALSE
2005	B	7	8	3.14	98.03	EW		FALSE
2005	B	7	9	3.75	97.89	TW		FALSE
2005	B	7	10	5.18	98.02	BIS	little sandbar instream	FALSE
2005	B	7	11	5.61	98.04	EW		FALSE
2005	B	7	12	6.34	98.47	BF		FALSE
2005	B	7	13	6.80	98.77	BIS	Bot X7R reb/low	FALSE
2005	B	7	14	7.86	99.28	TOB	Top X7R reb/low	FALSE
2005	B	8	1	0.00	100.00		Top X8L reb/low	FALSE
2005	B	8	2	0.00	99.60		Bot X8L reb/low	FALSE
2005	B	8	3	0.43	99.34	BIS		FALSE
2005	B	8	4	0.61	98.87	BF		FALSE
2005	B	8	5	1.04	98.82	EW		FALSE
2005	B	8	6	1.92	98.70	TW		FALSE
2005	B	8	7	2.90	98.79	BIS		FALSE
2005	B	8	8	3.69	99.59	EW	on top of tree	FALSE
2005	B	8	9	3.90	99.49	TOB		FALSE
2005	B	8	10	5.30	99.65	BOT X8R	Bot X8R reb/low	FALSE
2005	B	8	11	5.30	99.85	TOP X8R	Top X8R reb/low	FALSE
2005	B	9	1	0.00	100.00		Top X9L reb/low	FALSE
2005	B	9	2	0.00	100.02		Bot X9L reb/low	FALSE
2005	B	9	3	0.76	97.88	EW		FALSE
2005	B	9	4	2.35	97.72	TW		FALSE
2005	B	9	5	3.47	97.82	EW		FALSE
2005	B	9	6	4.15	98.00	BF		FALSE
2005	B	9	7	4.75	98.39	BIS		FALSE
2005	B	9	8	5.58	98.57	TOB		FALSE
2005	B	9	9	7.77	98.99	BIS		FALSE
2005	B	9	10	10.91	98.99	BIS		FALSE
2005	B	9	11	11.25	99.19	BIS		FALSE
2005	B	9	12	12.44	99.70	BIS		FALSE
2005	B	9	13	12.71	99.87	BIS		FALSE
2005	B	9	14	13.66	100.32	BOT X9R	Bot X9R reb/low	FALSE
2005	B	9	15	13.66	100.36	TOP X9R	Top X9R reb/low	FALSE
2005	B	10	1	0.00	100.00		Top X10L reb/low	FALSE
2005	B	10	2	0.00	99.68		Bot X10L reb/low	FALSE
2005	B	10	3	0.64	97.74	BIS		FALSE
2005	B	10	4	1.07	97.66	BIS	on top of rock	FALSE
2005	B	10	5	1.92	97.35	EW		FALSE
2005	B	10	6	2.80	97.25	TW		FALSE
2005	B	10	7	4.15	97.36	EW		FALSE
2005	B	10	8	4.88	97.55	BF		FALSE
2005	B	10	9	5.30	97.71	BIS		FALSE
2005	B	10	10	5.76	98.08	BIS		FALSE
2005	B	10	11	6.28	98.24	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	B	10	12	6.52	98.32	TOB		FALSE
2005	B	10	13	7.86	98.31	BIS		FALSE
2005	B	10	14	8.75	98.28	BIS		FALSE
2005	B	10	15	9.88	98.24	BIS		FALSE
2005	B	10	16	10.76	98.19	BIS		FALSE
2005	B	10	17	11.37	98.24	BIS		FALSE
2005	B	10	18	12.04	98.23	BIS		FALSE
2005	B	10	19	13.20	98.53	BIS		FALSE
2005	B	10	20	14.11	99.02	BIS		FALSE
2005	B	10	21	14.51	99.27	BIS		FALSE
2005	B	10	22	14.78	99.46	?		FALSE
2005	B	10	23	15.33	99.87	BOT X10R	Bot X10R reb/low	FALSE
2005	B	10	24	15.33	100.00	TOP X10R	Top X10R reb/low	FALSE
2005	C	1	1	0.00	100.00		Top X1L reb/low	FALSE
2005	C	1	2	0.00	99.79		Bot X1L reb/low	FALSE
2005	C	1	3	0.30	99.19	BIS		FALSE
2005	C	1	4	0.52	99.07	BIS		FALSE
2005	C	1	5	1.25	98.74	BIS		FALSE
2005	C	1	6	1.98	98.52	EW		FALSE
2005	C	1	7	2.68	98.46	TW		FALSE
2005	C	1	8	3.84	98.56	BIS	In stream (RI)	FALSE
2005	C	1	9	5.18	98.67	EW		FALSE
2005	C	1	10	5.91	98.77	BF		FALSE
2005	C	1	11	6.64	98.89	BIS		FALSE
2005	C	1	12	7.74	99.06	BIS		FALSE
2005	C	1	13	8.29	99.23	BIS		FALSE
2005	C	1	14	10.09	99.12	BIS		FALSE
2005	C	1	15	10.97	99.26	BIS		FALSE
2005	C	1	16	11.43	99.43	BIS		FALSE
2005	C	1	17	11.95	99.60	BIS		FALSE
2005	C	1	18	12.19	99.75	BIS		FALSE
2005	C	1	19	12.38	99.87	BOT X1R	Bot X1R reb/low	FALSE
2005	C	1	20	12.34	100.23	TOP X1R	Top X1R reb/low	FALSE
2005	C	2	1	0.00	100.00		Top X2L reb/low	FALSE
2005	C	2	2	0.00	99.69		Bot X2L reb/low	FALSE
2005	C	2	3	0.30	99.29	BIS		FALSE
2005	C	2	4	0.58	99.11	BIS		FALSE
2005	C	2	5	0.94	98.92	BIS		FALSE
2005	C	2	6	1.34	98.88	BIS		FALSE
2005	C	2	7	1.92	98.84	BIS		FALSE
2005	C	2	8	2.50	98.72	BIS		FALSE
2005	C	2	9	2.96	98.63	BIS		FALSE
2005	C	2	10	3.47	98.52	BIS		FALSE
2005	C	2	11	3.96	98.42	BIS		FALSE
2005	C	2	12	5.00	98.07	BIS		FALSE
2005	C	2	13	5.61	98.02	BIS		FALSE
2005	C	2	14	6.07	97.89	BIS		FALSE
2005	C	2	15	6.52	97.83	EW		FALSE
2005	C	2	16	7.01	97.70	TW		FALSE
2005	C	2	17	7.86	97.79	BIS	in stream	FALSE
2005	C	2	18	9.02	97.85	EW		FALSE
2005	C	2	19	9.66	98.02	BF		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	C	2	20	10.42	98.27	BIS		FALSE
2005	C	2	21	11.06	98.28	BIS		FALSE
2005	C	2	22	11.67	98.26	BIS		FALSE
2005	C	2	23	12.22	98.32	BIS		FALSE
2005	C	2	24	12.41	99.61	BOT X2R	Bot X2R reb/low	FALSE
2005	C	2	25	12.25	100.01	TOP X2R	Top X2R reb/low	FALSE
2005	C	3	1	0.00	100.00		Top X3L reb/low	FALSE
2005	C	3	2	0.00	99.66		Bot X3L reb/low	FALSE
2005	C	3	3	0.34	99.43	BIS		FALSE
2005	C	3	4	0.79	99.19	BIS		FALSE
2005	C	3	5	1.28	99.02	BIS		FALSE
2005	C	3	6	1.74	98.86	BIS		FALSE
2005	C	3	7	2.07	98.76	BIS		FALSE
2005	C	3	8	2.80	98.69	BIS		FALSE
2005	C	3	9	3.57	98.75	BIS		FALSE
2005	C	3	10	4.33	98.66	BIS		FALSE
2005	C	3	11	4.63	98.52	BIS		FALSE
2005	C	3	12	5.67	98.42	BIS		FALSE
2005	C	3	13	6.34	98.36	BIS		FALSE
2005	C	3	14	6.98	98.25	EW		FALSE
2005	C	3	15	8.26	98.15	TW		FALSE
2005	C	3	16	9.39	98.23	EW		FALSE
2005	C	3	17	10.27	98.52	BF		FALSE
2005	C	3	18	10.97	98.81	BIS		FALSE
2005	C	3	19	11.61	98.88	BIS		FALSE
2005	C	3	20	12.47	99.11	BIS		FALSE
2005	C	3	21	13.23	99.39	BIS		FALSE
2005	C	3	22	13.66	99.58	BIS		FALSE
2005	C	3	23	13.99	99.75	TOP X3R	Top X3R reb/low	FALSE
2005	C	3	24	13.99	100.00	BOT X3R	Bot X3R reb/low	FALSE
2005	C	4	1	0.00	100.00		Top X4L reb/low	FALSE
2005	C	4	2	0.00	99.69		Bot X4L reb/low	FALSE
2005	C	4	3	0.49	99.50	BIS		FALSE
2005	C	4	4	1.28	98.77	BIS		FALSE
2005	C	4	5	2.29	98.45	BIS		FALSE
2005	C	4	6	3.57	98.51	BIS		FALSE
2005	C	4	7	4.33	98.54	BF		FALSE
2005	C	4	8	4.63	98.43	BIS		FALSE
2005	C	4	9	6.40	98.29	BIS		FALSE
2005	C	4	10	7.22	98.14	EW		FALSE
2005	C	4	11	8.05	98.02	TW		FALSE
2005	C	4	12	8.84	98.10	EW		FALSE
2005	C	4	13	9.42	98.24	BIS		FALSE
2005	C	4	14	9.94	98.55	BIS		FALSE
2005	C	4	15	10.39	98.87	TOB		FALSE
2005	C	4	16	11.25	98.94	BIS		FALSE
2005	C	4	17	11.89	99.69	BOT X4R	Bot X4R reb/low	FALSE
2005	C	4	18	11.89	99.99	TOP X4R	Top X4R reb/low	FALSE
2005	C	5	1	0.00	100.00		Top X5L reb/low	FALSE
2005	C	5	2	0.00	99.69		Bot X5L reb/low	FALSE
2005	C	5	3	0.46	99.29	BIS		FALSE
2005	C	5	4	1.46	99.06	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	C	5	5	2.19	98.82	BIS		FALSE
2005	C	5	6	3.44	98.68	BIS		FALSE
2005	C	5	7	4.82	98.56	BIS		FALSE
2005	C	5	8	5.94	98.53	BF		FALSE
2005	C	5	9	6.49	98.40	BIS		FALSE
2005	C	5	10	6.86	98.24	EW		FALSE
2005	C	5	11	7.71	98.06	TW		FALSE
2005	C	5	12	8.08	98.06	BIS	in stream	FALSE
2005	C	5	13	8.66	98.26	EW		FALSE
2005	C	5	14	9.33	98.38	BIS		FALSE
2005	C	5	15	10.00	98.84	TOB		FALSE
2005	C	5	16	11.16	98.89	BIS		FALSE
2005	C	5	17	11.86	99.25	BIS		FALSE
2005	C	5	18	12.19	99.58	BOT X5R	Bot X5R reb/low	FALSE
2005	C	5	19	12.50	100.10	TOP X5R	Top X5R reb/low	FALSE
2005	C	6	1	0.00	100.00		Top X6L reb/low	FALSE
2005	C	6	2	0.00	99.70		Bot X6L reb/low	FALSE
2005	C	6	3	0.37	99.31	BIS		FALSE
2005	C	6	4	0.94	98.94	BIS		FALSE
2005	C	6	5	1.89	98.86	BIS		FALSE
2005	C	6	6	2.23	98.75	BIS		FALSE
2005	C	6	7	2.74	98.44	BIS		FALSE
2005	C	6	8	3.17	98.33	BF		FALSE
2005	C	6	9	3.96	98.13	BIS		FALSE
2005	C	6	10	4.42	98.06	EW		FALSE
2005	C	6	11	5.12	98.02	SB		FALSE
2005	C	6	12	5.58	98.24	SB	on top of boulder	TRUE
2005	C	6	13	5.82	98.00	BIS	in stream	FALSE
2005	C	6	14	7.04	97.95	TW		FALSE
2005	C	6	15	8.78	98.05	EW		FALSE
2005	C	6	16	9.51	98.72	TOB		FALSE
2005	C	6	17	10.03	98.75	BIS		FALSE
2005	C	6	18	10.15	98.95	BIS	on top of boulder	FALSE
2005	C	6	19	10.70	99.08	BIS	on top of boulder	FALSE
2005	C	6	20	11.31	99.34	BIS	on top of boulder	FALSE
2005	C	6	21	11.49	99.12	BIS	on top of boulder	FALSE
2005	C	6	22	11.89	99.09	BIS	on top of boulder	FALSE
2005	C	6	23	12.22	99.12	BIS		FALSE
2005	C	6	24	12.65	99.35	BIS		FALSE
2005	C	6	25	12.98	99.69	BOT X6R	Bot X6R reb/low	FALSE
2005	C	6	26	12.98	100.00	TOP X6R	Top X6R reb/low	FALSE
2005	C	7	1	0.00	100.00		Top X7L reb/low	FALSE
2005	C	7	2	0.00	99.80		Bot X7L reb/low	FALSE
2005	C	7	3	0.61	99.08	BIS		FALSE
2005	C	7	4	1.25	98.94	BIS		FALSE
2005	C	7	5	2.38	98.85	TOB		FALSE
2005	C	7	6	2.80	98.39	BIS		FALSE
2005	C	7	7	3.26	98.30	BF		FALSE
2005	C	7	8	4.02	98.16	EW		FALSE
2005	C	7	9	4.33	98.04	TW		FALSE
2005	C	7	10	5.18	98.13	SB		FALSE
2005	C	7	11	5.70	98.19	SB	side pool/away from main channel	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	C	7	12	6.10	98.19	EW		FALSE
2005	C	7	13	6.74	98.34	BIS		FALSE
2005	C	7	14	7.28	98.70	BIS		FALSE
2005	C	7	15	7.68	99.16	TOB		FALSE
2005	C	7	16	8.29	99.17	BIS		FALSE
2005	C	7	17	8.60	99.00	BIS		FALSE
2005	C	7	18	9.57	98.81	BIS		FALSE
2005	C	7	19	9.97	99.09	BIS	on top of log	TRUE
2005	C	7	20	10.52	99.29	BIS	on top of log	TRUE
2005	C	7	21	10.70	98.79	BIS		FALSE
2005	C	7	22	11.31	98.81	BIS		FALSE
2005	C	7	23	12.16	99.09	BIS		FALSE
2005	C	7	24	12.68	99.30	BIS		FALSE
2005	C	7	25	13.29	99.88	BOT X7R	Bot X7R reb/low	FALSE
2005	C	7	26	13.29	100.05	TOP X7R	Top X7R reb/low	FALSE
2005	D	1	1	0.00	100.00		Top X1L reb/upper	FALSE
2005	D	1	2	0.00	99.67		Bot X1L reb/upper	FALSE
2005	D	1	3	1.74	98.79	BIS		FALSE
2005	D	1	4	2.93	98.20	BIS		FALSE
2005	D	1	5	3.23	97.64	BIS		FALSE
2005	D	1	6	5.79	98.00	BIS		FALSE
2005	D	1	7	6.19	98.62	BIS		FALSE
2005	D	1	8	6.83	98.65	BOT X1L	Bot X1L reb/low	FALSE
2005	D	1	9	6.83	98.84	TOP X1L	Top X1L reb/low	FALSE
2005	D	1	10	7.32	98.59	TOB		FALSE
2005	D	1	11	7.83	97.46	BIS		FALSE
2005	D	1	12	9.02	96.77	EW		FALSE
2005	D	1	13	10.36	96.67	TW		FALSE
2005	D	1	14	11.13	96.69	EW		FALSE
2005	D	1	15	11.37	97.03	BIS	on top of boulder	FALSE
2005	D	1	16	12.07	97.15	BF		FALSE
2005	D	1	17	12.95	97.25	BIS		FALSE
2005	D	1	18	13.56	97.63	BIS		FALSE
2005	D	1	19	14.05	97.91	BIS		FALSE
2005	D	1	20	14.78	98.09	BIS		FALSE
2005	D	1	21	15.12	98.43	BIS		FALSE
2005	D	1	22	16.52	98.61	BIS		FALSE
2005	D	1	23	16.98	98.87	BIS		FALSE
2005	D	1	24	17.98	100.08	BOT X1R	Bot X1R reb/upper	FALSE
2005	D	1	25	17.98	100.44	TOP X1R	Top X1R reb/upper	FALSE
2005	D	2	1	0.00	100.00		Top X2L reb/low	FALSE
2005	D	2	2	0.00	99.69		Bot X2L reb/low	FALSE
2005	D	2	3	0.61	99.69	BIS		FALSE
2005	D	2	4	1.13	99.10	BIS		FALSE
2005	D	2	5	2.68	98.51	EW		FALSE
2005	D	2	6	3.57	98.43	TW		FALSE
2005	D	2	7	4.54	98.49	EW		FALSE
2005	D	2	8	5.03	98.66	BIS		FALSE
2005	D	2	9	5.49	98.74	BF		FALSE
2005	D	2	10	6.34	98.97	BIS		FALSE
2005	D	2	11	7.10	99.37	BIS		FALSE
2005	D	2	12	7.71	99.66	TOB		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	D	2	13	8.90	99.73	BIS		FALSE
2005	D	2	14	9.36	99.80	BOT X2R	Bot X2R reb/low	FALSE
2005	D	2	15	9.36	100.00	TOP X2R	Top X2R reb/low	FALSE
2005	D	3	1	0.00	100.00		Top X3L reb/low	FALSE
2005	D	3	2	0.00	99.80		Bot X3L reb/low	FALSE
2005	D	3	3	1.10	99.72	BIS		FALSE
2005	D	3	4	1.34	98.86	BIS		FALSE
2005	D	3	5	3.38	98.53	EW		FALSE
2005	D	3	6	4.11	98.32	TW		FALSE
2005	D	3	7	4.60	98.54	EW		FALSE
2005	D	3	8	4.88	98.96	BF		FALSE
2005	D	3	9	5.73	99.63	BIS		FALSE
2005	D	3	10	6.71	99.85	TOB		FALSE
2005	D	3	11	7.25	99.20	BIS		FALSE
2005	D	3	12	8.60	99.26	BIS		FALSE
2005	D	3	13	10.03	99.36	BIS		FALSE
2005	D	3	14	10.55	99.49	BIS		FALSE
2005	D	3	15	11.00	99.92	BOT X3R	Bot X3R reb/low	FALSE
2005	D	3	16	11.00	100.00	TOP X3R	Top X3R reb/low	FALSE
2005	D	4	1	0.00	100.00		Top X4L reb/upper (on stump)	FALSE
2005	D	4	2	0.00	99.18		Bot X4L reb/upper (on stump)	FALSE
2005	D	4	3	0.30	99.16	BIS	on top of stump	FALSE
2005	D	4	4	0.55	98.10	BIS		FALSE
2005	D	4	5	1.01	97.62	BIS		FALSE
2005	D	4	6	1.25	97.28	BIS		FALSE
2005	D	4	7	1.65	96.38	EW		FALSE
2005	D	4	8	2.65	96.34	TW		FALSE
2005	D	4	9	3.20	96.40	EW		FALSE
2005	D	4	10	4.05	96.73	BF		FALSE
2005	D	4	11	5.21	96.93	BIS		FALSE
2005	D	4	12	6.25	97.24	BIS		FALSE
2005	D	4	13	7.59	97.19	BIS		FALSE
2005	D	4	14	8.44	97.52	BIS		FALSE
2005	D	4	15	10.03	98.08	TOB		FALSE
2005	D	4	16	11.70	98.24	BIS		FALSE
2005	D	4	17	12.98	99.56	BIS		FALSE
2005	D	4	18	13.96	100.44	BOT X4R	Bot X4R reb/upper	FALSE
2005	D	4	19	13.96	100.88	TOP X4R	Top X4R reb/upper	FALSE
2005	D	5	1	0.00	100.00		Top X5L reb/low	FALSE
2005	D	5	2	0.00	99.61		Bot X5L reb/low	FALSE
2005	D	5	3	0.37	99.28	BIS		FALSE
2005	D	5	4	0.61	99.15	BIS	on top of log	FALSE
2005	D	5	5	0.88	98.41	BIS		FALSE
2005	D	5	6	2.32	98.17	BIS		FALSE
2005	D	5	7	3.44	98.03	BIS		FALSE
2005	D	5	8	3.78	97.96	EW		FALSE
2005	D	5	9	4.27	97.85	TW		FALSE
2005	D	5	10	4.79	97.96	EW		FALSE
2005	D	5	11	5.30	98.10	BIS		FALSE
2005	D	5	12	5.94	98.37	BIS		FALSE
2005	D	5	13	6.49	98.58	BIS		FALSE
2005	D	5	14	6.92	98.94	BIS	on top of boulder	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	D	5	15	7.65	98.96	BIS		FALSE
2005	D	5	16	8.11	99.47	TOB		FALSE
2005	D	5	17	9.14	99.64	BIS		FALSE
2005	D	5	18	9.94	99.61	BIS		FALSE
2005	D	5	19	10.82	99.56	BOT X5R	Bot X5R reb/low	FALSE
2005	D	5	20	10.82	99.99	TOP X5R	Top X5R reb/low	FALSE
2005	D	6	1	0.00	100.00		Top X6L reb/low	FALSE
2005	D	6	2	0.00	99.83		Bot X6L reb/low	FALSE
2005	D	6	3	0.46	99.62	BIS		FALSE
2005	D	6	4	1.16	98.20	BIS		FALSE
2005	D	6	5	2.35	98.05	BIS		FALSE
2005	D	6	6	2.99	97.89	BF		FALSE
2005	D	6	7	3.84	97.55	EW		FALSE
2005	D	6	8	4.45	97.45	TW		FALSE
2005	D	6	9	4.79	97.62	BIS	in stream; on large rock	FALSE
2005	D	6	10	5.09	97.64	BIS	rockstep	FALSE
2005	D	6	11	6.25	97.56	EW		FALSE
2005	D	6	12	7.25	97.78	BIS		FALSE
2005	D	6	13	7.47	98.42	BIS		FALSE
2005	D	6	14	8.60	99.32	TOB		FALSE
2005	D	6	15	9.97	99.67	BOT X6R	Bot X6R reb/low	FALSE
2005	D	6	16	9.97	100.01	TOP X6R	Top X6R reb/low	FALSE
2005	D	7	1	0.00	100.00		Top X7L reb/low	FALSE
2005	D	7	2	0.00	99.77		Bot X7L reb/low	FALSE
2005	D	7	3	0.30	99.50	BIS		FALSE
2005	D	7	4	0.40	98.89	BIS		FALSE
2005	D	7	5	0.76	99.70	BIS	on top of log	TRUE
2005	D	7	6	1.25	98.47	BIS		FALSE
2005	D	7	7	1.86	98.30	BIS		FALSE
2005	D	7	8	2.19	98.09	BF		FALSE
2005	D	7	9	2.53	97.89	BIS		FALSE
2005	D	7	10	2.93	97.78	EW		FALSE
2005	D	7	11	3.47	97.68	TW		FALSE
2005	D	7	12	4.08	97.79	EW		FALSE
2005	D	7	13	4.85	97.90	BIS		FALSE
2005	D	7	14	5.61	97.95	BIS		FALSE
2005	D	7	15	6.07	97.80	BIS	side pool; away from main channel	FALSE
2005	D	7	16	6.37	98.84	BIS		FALSE
2005	D	7	17	6.86	99.27	BIS		FALSE
2005	D	7	18	7.19	99.43	TOB		FALSE
2005	D	7	19	7.68	99.77	BOT X7R	Bot X7L reb/low	FALSE
2005	D	7	20	7.68	99.97	TOP X7R	Top X7L reb/low	FALSE
2005	D	8	1	0.00	100.00		Top X8L reb/low (bent rebar)	FALSE
2005	D	8	2	0.00	99.75		Bot X8L reb/low (bent rebar)	FALSE
2005	D	8	3	0.61	99.44	BIS		FALSE
2005	D	8	4	0.88	99.17	BIS		FALSE
2005	D	8	5	1.40	98.02	BIS		FALSE
2005	D	8	6	2.07	97.83	EW		FALSE
2005	D	8	7	2.68	97.73	TW		FALSE
2005	D	8	8	3.38	97.87	EW		FALSE
2005	D	8	9	4.54	97.96	BIS		FALSE
2005	D	8	10	4.69	98.06	BF		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	D	8	11	5.79	98.32	BIS		FALSE
2005	D	8	12	6.10	98.65	BIS		FALSE
2005	D	8	13	6.43	99.69	TOB		FALSE
2005	D	8	14	6.83	99.79	BOT X8R	Bot X8R reb/low	FALSE
2005	D	8	15	6.83	100.02	TOP X8R	Top X8R reb/low	FALSE
2005	D	9	1	0.00	100.00		Top X9L reb/low	FALSE
2005	D	9	2	0.00	99.86		Bot X9L reb/low	FALSE
2005	D	9	3	0.40	98.96	BIS		FALSE
2005	D	9	4	1.16	98.64	BIS		FALSE
2005	D	9	5	1.55	98.59	BIS		FALSE
2005	D	9	6	1.92	98.61	BIS	sidepool; apart from main channel	FALSE
2005	D	9	7	2.50	98.58	EW	sidepool; apart from main channel	FALSE
2005	D	9	8	3.23	98.35	TW		FALSE
2005	D	9	9	3.96	98.53	EW		FALSE
2005	D	9	10	4.75	98.84	BF		FALSE
2005	D	9	11	5.46	98.95	BIS		FALSE
2005	D	9	12	6.25	99.04	BIS		FALSE
2005	D	9	13	6.89	99.15	BIS		FALSE
2005	D	9	14	7.38	99.80	BOT X9R	Bot X9R reb/low	FALSE
2005	D	9	15	7.22	100.03	TOP X9R	Top X9R reb/low	FALSE
2005	D	10	1	0.00	100.00		Top X10L reb/low	FALSE
2005	D	10	2	0.00	99.70		Bot X10L reb/low	FALSE
2005	D	10	3	0.18	99.58	BIS	2'+ lower than all other years. looks like error	FALSE
2005	D	10	4	0.64	99.08	BIS		FALSE
2005	D	10	5	1.19	98.89	BIS		FALSE
2005	D	10	6	1.37	98.48	BF		FALSE
2005	D	10	7	2.47	98.33	BIS		FALSE
2005	D	10	8	2.71	98.22	EW		FALSE
2005	D	10	9	4.05	98.14	TW		FALSE
2005	D	10	10	4.85	98.25	EW		FALSE
2005	D	10	11	4.94	98.42	BIS	on top of boulder	TRUE
2005	D	10	12	5.36	98.26	BIS		FALSE
2005	D	10	13	5.73	98.50	BIS	on top of boulder	FALSE
2005	D	10	14	6.49	98.52	BIS		FALSE
2005	D	10	15	6.89	98.87	BIS		FALSE
2005	D	10	16	7.35	99.75	BOT X10R	Bot X10R reb/low	FALSE
2005	D	10	17	7.35	100.00	TOP X10R	Top X10R reb/low	FALSE
2005	E	1	1	0.00	100.00		Top X1L reb/low	FALSE
2005	E	1	2	0.00	99.63		Bot X1L reb/low	FALSE
2005	E	1	3	0.40	99.41	BIS		FALSE
2005	E	1	4	2.01	98.88	BIS		FALSE
2005	E	1	5	3.63	98.76	BIS		FALSE
2005	E	1	6	4.63	98.42	BIS		FALSE
2005	E	1	7	5.18	98.37	BF		FALSE
2005	E	1	8	5.76	98.18	EW		FALSE
2005	E	1	9	6.28	98.11	TW		FALSE
2005	E	1	10	6.80	98.23	BIS	Big, leafy, twig pile in stream	FALSE
2005	E	1	11	7.01	99.47	BIS	Due to cut bank can't reach EW	FALSE
2005	E	1	12	7.50	99.89	TOP X1R	Top X1R reb/low	FALSE
2005	E	2	1	0.00	100.00		Top X2L reb/low	FALSE
2005	E	2	2	0.00	99.45		Bot X2L reb/low	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	E	2	3	0.34	99.14	BIS		FALSE
2005	E	2	4	0.70	98.91	BIS		FALSE
2005	E	2	5	0.94	98.55	BIS		FALSE
2005	E	2	6	1.89	98.38	EW	on top of rocks	FALSE
2005	E	2	7	2.38	98.39	BIS	in stream; on top of rocks	FALSE
2005	E	2	8	2.71	98.25	TW		FALSE
2005	E	2	9	3.23	98.40	EW		FALSE
2005	E	2	10	3.54	98.49	BF		FALSE
2005	E	2	11	3.63	98.58	BIS	on top of rocks	FALSE
2005	E	2	12	4.18	98.66	BIS		FALSE
2005	E	2	13	4.48	98.97	BIS		FALSE
2005	E	2	14	4.79	99.18	BIS		FALSE
2005	E	2	15	5.03	99.36	TOB		FALSE
2005	E	2	16	5.46	99.44	BIS		FALSE
2005	E	2	17	5.64	99.58	BIS	on top of boulder	FALSE
2005	E	2	18	5.79	99.61	BOT X2R	Bot X2R reb/low	FALSE
2005	E	2	19	5.79	100.02	TOP X2R	Top X2R reb/low	FALSE
2005	E	3	1	0.00	100.00		Top X3L reb/low	FALSE
2005	E	3	2	0.00	99.52		Bot X3L reb/low	FALSE
2005	E	3	3	0.24	99.34	BIS		FALSE
2005	E	3	4	0.37	99.12	BIS		FALSE
2005	E	3	5	0.79	98.82	BIS		FALSE
2005	E	3	6	1.74	98.42	BIS		FALSE
2005	E	3	7	1.80	98.06	EW	on top of rocks	FALSE
2005	E	3	8	2.65	97.98	BIS	cluster of boulders in stream (RI)	FALSE
2005	E	3	9	3.44	97.77	TW		FALSE
2005	E	3	10	3.75	97.82	EW		FALSE
2005	E	3	11	4.11	98.00	BF		FALSE
2005	E	3	12	4.75	98.26	BIS		FALSE
2005	E	3	13	5.27	98.47	BIS		FALSE
2005	E	3	14	5.52	98.93	TOB		FALSE
2005	E	3	15	6.37	99.09	BIS		FALSE
2005	E	3	16	7.10	99.19	BIS		FALSE
2005	E	3	17	7.19	99.39	BOT X3R	Bot X3R reb/low (on log)	FALSE
2005	E	3	18	7.19	100.01	TOP X3R	Top X3R reb/low	FALSE
2005	E	4	1	0.00	100.00		Top X4L reb/low	FALSE
2005	E	4	2	0.00	99.75		Bot X4L reb/low	FALSE
2005	E	4	3	0.55	99.40	BIS		FALSE
2005	E	4	4	0.61	99.13	BIS		FALSE
2005	E	4	5	0.94	99.02	BIS		FALSE
2005	E	4	6	1.07	98.80	BIS		FALSE
2005	E	4	7	1.52	98.95	BIS		FALSE
2005	E	4	8	2.23	98.65	EW		FALSE
2005	E	4	9	2.90	98.60	TW		FALSE
2005	E	4	10	3.54	98.84	BIS	in stream rock step	FALSE
2005	E	4	11	3.90	98.63	BIS	in stream rock step	FALSE
2005	E	4	12	4.30	98.72	BIS	in stream rock step	FALSE
2005	E	4	13	4.66	98.54	EW		FALSE
2005	E	4	14	5.30	98.69	BF		FALSE
2005	E	4	15	5.61	98.80	BIS	adjusted up 1'	FALSE
2005	E	4	16	5.91	99.49	TOB		FALSE
2005	E	4	17	6.19	99.70	BIS	on top of log	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	E	4	18	6.34	99.58	BIS		FALSE
2005	E	4	19	6.95	99.63	BIS		FALSE
2005	E	4	20	7.62	99.79	BOT X4R	Bot X4R reb/low	FALSE
2005	E	4	21	7.62	100.04	TOP X4R	Top X4R reb/low	FALSE
2005	E	5	1	0.00	100.00		Top X5L reb/low	FALSE
2005	E	5	2	0.00	99.68		Bot X5L reb/low	FALSE
2005	E	5	3	0.49	99.56	BIS		FALSE
2005	E	5	4	0.79	99.48	BIS		FALSE
2005	E	5	5	1.01	99.40	BIS		FALSE
2005	E	5	6	1.25	99.20	BIS		FALSE
2005	E	5	7	1.55	98.91	BIS		FALSE
2005	E	5	8	2.10	98.82	BF	on top of small rocks	FALSE
2005	E	5	9	2.53	98.73	EW		FALSE
2005	E	5	10	3.14	98.62	TW		FALSE
2005	E	5	11	4.15	98.72	EW		FALSE
2005	E	5	12	4.45	99.01	BIS	on top of large boulder	FALSE
2005	E	5	13	4.94	99.21	BIS	on top of large boulder	FALSE
2005	E	5	14	5.27	99.23	BIS		FALSE
2005	E	5	15	5.40	99.66	TOB	on rock	FALSE
2005	E	5	16	7.01	99.90	BIS		FALSE
2005	E	5	17	7.83	99.89	BOT X5R	Bot X5R reb/low	FALSE
2005	E	5	18	7.83	100.01	TOP X5R	Top X5R reb/low	FALSE
2005	E	6	1	0.00	100.00		Top X6L reb/low	FALSE
2005	E	6	2	0.00	99.54		Bot X6L reb/low	FALSE
2005	E	6	3	0.21	99.39	BIS		FALSE
2005	E	6	4	0.58	98.77	BIS		FALSE
2005	E	6	5	1.10	98.43	EW	on top of rock	FALSE
2005	E	6	6	1.58	98.23	TW		FALSE
2005	E	6	7	1.98	98.41	BIS	in stream; on top of rock	FALSE
2005	E	6	8	2.44	98.39	EW		FALSE
2005	E	6	9	3.23	98.54	BIS		FALSE
2005	E	6	10	3.54	98.87	BIS	on top of boulder	FALSE
2005	E	6	11	3.90	98.67	BIS		FALSE
2005	E	6	12	4.33	98.66	BIS		FALSE
2005	E	6	13	4.66	99.46	TOB		FALSE
2005	E	6	14	5.06	99.58	BIS		FALSE
2005	E	6	15	5.33	99.64	BOT X6R	Bot X6R reb/low	FALSE
2005	E	6	16	5.33	100.00	TOP X6R	Top X6R reb/low	FALSE
2005	E	7	1	0.00	100.00		Top X7L reb/low	FALSE
2005	E	7	2	0.00	99.73		Bot X7L reb/low	FALSE
2005	E	7	3	0.73	99.42	TOB		FALSE
2005	E	7	4	1.19	99.06	BIS	on top of boulder	FALSE
2005	E	7	5	1.49	98.57	EW	rock pile; difficult to see EW; (shelf) on rocks	FALSE
2005	E	7	6	3.20	98.45	TW		FALSE
2005	E	7	7	3.96	98.67	EW	on top of rock	FALSE
2005	E	7	8	4.18	98.68	BF		FALSE
2005	E	7	9	4.42	98.86	BIS		FALSE
2005	E	7	10	4.63	99.60	BIS		FALSE
2005	E	7	11	5.18	99.84	BIS	on top of rock	FALSE
2005	E	7	12	5.97	99.66	BIS		FALSE
2005	E	7	13	6.49	99.67	BOT X7R	Bot X7R reb/low	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	E	7	14	6.49	100.02	TOP X7R	Top X7R reb/low	FALSE
2005	E	8	1	0.00	100.00		Top X8L reb/low	FALSE
2005	E	8	2	0.00	99.63		Bot X8L reb/low	FALSE
2005	E	8	3	0.15	99.62	TOB		FALSE
2005	E	8	4	0.43	99.37	BIS		FALSE
2005	E	8	5	0.82	99.16	BIS		FALSE
2005	E	8	6	0.98	98.77	BF		FALSE
2005	E	8	7	1.37	98.61	EW		FALSE
2005	E	8	8	2.01	98.56	TW		FALSE
2005	E	8	9	3.26	98.68	EW		FALSE
2005	E	8	10	4.05	99.02	BIS		FALSE
2005	E	8	11	4.11	99.34	BIS		FALSE
2005	E	8	12	5.00	99.57	BIS		FALSE
2005	E	8	13	6.07	99.64	BIS		FALSE
2005	E	8	14	6.64	99.74	BOT X8R	Bot X8R reb/low	FALSE
2005	E	8	15	6.64	100.00	TOP X8R	Top X8R reb/low	FALSE
2005	E	9	1	0.00	100.00		Top X9L reb/low	FALSE
2005	E	9	2	0.00	99.49		Bot X9L reb/low	FALSE
2005	E	9	3	0.34	99.18	BIS		FALSE
2005	E	9	4	0.94	98.81	BIS		FALSE
2005	E	9	5	1.19	98.39	BIS		FALSE
2005	E	9	6	1.52	98.12	BIS		FALSE
2005	E	9	7	1.80	97.97	BF		FALSE
2005	E	9	8	3.14	97.64	EW		FALSE
2005	E	9	9	3.75	97.57	TW		FALSE
2005	E	9	10	4.79	97.68	EW		FALSE
2005	E	9	11	5.64	97.81	BIS		FALSE
2005	E	9	12	6.55	98.05	BIS		FALSE
2005	E	9	13	6.89	98.24	BIS		FALSE
2005	E	9	14	7.35	98.57	BIS		FALSE
2005	E	9	15	7.47	98.96	BIS		FALSE
2005	E	9	16	7.71	99.08	BIS		FALSE
2005	E	9	17	7.92	99.59	TOB		FALSE
2005	E	9	18	8.14	99.70	BOT X9R	Bot X9R reb/low	FALSE
2005	E	9	19	8.14	99.98	TOP X9R	Top X9R reb/low	FALSE
2005	E	10	1	0.00	100.00		Top X10L reb/low	FALSE
2005	E	10	2	0.00	99.68		Bot X10L reb/low	FALSE
2005	E	10	3	0.37	99.36	BIS		FALSE
2005	E	10	4	0.55	98.86	BIS		FALSE
2005	E	10	5	0.94	98.67	BIS		FALSE
2005	E	10	6	1.40	98.26	BIS		FALSE
2005	E	10	7	1.74	98.33	BIS	on boulder	FALSE
2005	E	10	8	1.86	98.20	BF		FALSE
2005	E	10	9	2.41	98.11	EW		FALSE
2005	E	10	10	2.83	98.00	TW		FALSE
2005	E	10	11	3.35	98.09	EW		FALSE
2005	E	10	12	3.78	98.18	BIS		FALSE
2005	E	10	13	4.15	98.41	BIS		FALSE
2005	E	10	14	5.06	98.68	BIS		FALSE
2005	E	10	15	5.24	99.12	TOB		FALSE
2005	E	10	16	5.97	99.52	BIS		FALSE
2005	E	10	17	6.61	99.78	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	E	10	18	7.07	99.94	BOT X10R	Bot X10R reb/low	FALSE
2005	E	10	19	7.07	100.15	TOP X10R	Top X10R reb/low	FALSE
2005	F	1	1	0.00	100.00		Top X1L reb/low	FALSE
2005	F	1	2	0.00	99.95		Bot X1L reb/low	FALSE
2005	F	1	3	0.73	99.28	BIS		FALSE
2005	F	1	4	1.43	98.99	BIS		FALSE
2005	F	1	5	2.50	98.88	BIS		FALSE
2005	F	1	6	2.65	98.58	BIS		FALSE
2005	F	1	7	3.20	98.30	BIS		FALSE
2005	F	1	8	4.05	98.32	BIS		FALSE
2005	F	1	9	4.97	98.08	BIS		FALSE
2005	F	1	10	5.43	98.24	BIS	on top of boulder	FALSE
2005	F	1	11	5.76	97.94	EW		FALSE
2005	F	1	12	5.85	97.87	TW		FALSE
2005	F	1	13	6.04	97.92	EW		FALSE
2005	F	1	14	6.49	98.04	BIS		FALSE
2005	F	1	15	6.77	98.22	BF		FALSE
2005	F	1	16	7.77	98.35	BIS		FALSE
2005	F	1	17	8.50	99.09	BIS		FALSE
2005	F	1	18	9.05	99.42	BIS		FALSE
2005	F	1	19	9.45	99.72	BOT X1R	Bot X1R reb/low	FALSE
2005	F	1	20	9.45	99.80	TOP X1R	Top X1R reb/low	FALSE
2005	F	2	1	0.00	100.00		Top X2L reb/low	FALSE
2005	F	2	2	0.00	99.83		Bot X2L reb/low	FALSE
2005	F	2	3	0.82	99.13	BIS		FALSE
2005	F	2	4	1.68	98.82	BIS		FALSE
2005	F	2	5	2.50	98.39	BIS		FALSE
2005	F	2	6	2.59	98.05	BIS		FALSE
2005	F	2	7	3.26	97.83	BF		FALSE
2005	F	2	8	4.45	97.49	EW		FALSE
2005	F	2	9	4.94	97.33	TW		FALSE
2005	F	2	10	5.52	97.47	EW		FALSE
2005	F	2	11	6.31	97.57	BIS		FALSE
2005	F	2	12	7.07	97.88	BIS		FALSE
2005	F	2	13	8.14	98.47	BIS		FALSE
2005	F	2	14	8.47	99.63	BIS		FALSE
2005	F	2	15	8.72	99.83	BOT X2R	Bot X2R reb/low	FALSE
2005	F	2	16	8.72	99.90	TOP X2R	Top X2R reb/low	FALSE
2005	F	3	1	0.00	100.00		Top X3L reb/low	FALSE
2005	F	3	2	0.00	99.83		Bot X3L reb/low	FALSE
2005	F	3	3	1.04	99.38	BIS		FALSE
2005	F	3	4	1.31	98.58	BIS		FALSE
2005	F	3	5	2.44	98.37	BIS		FALSE
2005	F	3	6	3.35	98.13	BIS		FALSE
2005	F	3	7	3.84	98.21	BIS	on top of boulder	FALSE
2005	F	3	8	3.90	97.91	EW		FALSE
2005	F	3	9	4.66	97.81	TW		FALSE
2005	F	3	10	4.82	97.90	EW	on top of boulder	FALSE
2005	F	3	11	5.64	98.21	BF		FALSE
2005	F	3	12	6.46	98.66	BIS		FALSE
2005	F	3	13	6.92	98.76	BIS		FALSE
2005	F	3	14	7.38	99.77	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	F	3	15	7.77	100.00	BOT X3R	Bot X3R reb/low	FALSE
2005	F	3	16	7.77	100.05	TOP X3R	Top X3R reb/low	FALSE
2005	F	4	1	0.00	100.00		Top X4L reb/low	FALSE
2005	F	4	2	0.00	99.94		Bot X4L reb/low	FALSE
2005	F	4	3	1.01	99.18	BIS		FALSE
2005	F	4	4	1.65	98.84	BIS		FALSE
2005	F	4	5	1.98	98.28	BIS		FALSE
2005	F	4	6	2.65	97.85	BF		FALSE
2005	F	4	7	3.96	97.62	BIS	side pool	FALSE
2005	F	4	8	4.36	97.57	EW		FALSE
2005	F	4	9	5.18	97.48	TW		FALSE
2005	F	4	10	6.16	97.49	EW		FALSE
2005	F	4	11	6.64	98.07	BIS		FALSE
2005	F	4	12	7.56	99.34	BIS		FALSE
2005	F	4	13	8.29	99.76	TOB		FALSE
2005	F	4	14	8.81	99.93	BOT X4R	Bot X4R reb/low	FALSE
2005	F	4	15	8.81	100.13	TOP X4R	Top X4R reb/low	FALSE
2005	F	5	1	0.00	100.00		Top X5L reb/low	FALSE
2005	F	5	2	0.00	99.98		Bot X5L reb/low	FALSE
2005	F	5	3	1.01	99.12	BIS		FALSE
2005	F	5	4	2.74	98.41	BIS		FALSE
2005	F	5	5	3.32	98.25	EW		FALSE
2005	F	5	6	4.48	98.24	TW		FALSE
2005	F	5	7	4.79	98.25	EW		FALSE
2005	F	5	8	5.15	98.42	BIS	on top of boulder	FALSE
2005	F	5	9	5.64	98.42	BF		FALSE
2005	F	5	10	6.58	98.90	BIS		FALSE
2005	F	5	11	7.71	99.79	BOT X5R	Bot X5R reb/low	FALSE
2005	F	5	12	7.71	99.88	TOP X5R	Top X5R reb/low	FALSE
2005	F	6	1	0.00	100.00		Top X6L reb/low	FALSE
2005	F	6	2	0.00	99.85		Bot X6L reb/low	FALSE
2005	F	6	3	1.40	99.36	BIS		FALSE
2005	F	6	4	1.74	98.75	BIS		FALSE
2005	F	6	5	2.04	99.05	BIS	on top of log	FALSE
2005	F	6	6	2.29	98.82	BIS	on top of boulder	FALSE
2005	F	6	7	2.50	98.34	BIS	side poolish; away from main channel	FALSE
2005	F	6	8	3.44	98.21	EW		FALSE
2005	F	6	9	4.21	98.04	TW		FALSE
2005	F	6	10	4.79	98.19	EW		FALSE
2005	F	6	11	5.43	99.02	BIS	on top of boulder	FALSE
2005	F	6	12	6.28	99.15	BIS		FALSE
2005	F	6	13	7.38	99.39	BIS		FALSE
2005	F	6	14	8.41	99.86	BOT X1R	Bot X6R reb/low	FALSE
2005	F	6	15	8.41	99.97	TOP X1R	Top X6R reb/low	FALSE
2005	F	7	1	0.00	100.00		Top X7L reb/low	FALSE
2005	F	7	2	0.00	99.98		Bot X7L reb/low	FALSE
2005	F	7	3	0.30	99.75	BIS		FALSE
2005	F	7	4	1.04	98.98	BIS		FALSE
2005	F	7	5	1.77	98.47	EW		FALSE
2005	F	7	6	2.62	98.38	TW		FALSE
2005	F	7	7	3.69	98.48	EW		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	F	7	8	4.02	98.55	BIS		FALSE
2005	F	7	9	4.36	98.86	BIS	on top of boulder	FALSE
2005	F	7	10	4.57	98.80	BF		FALSE
2005	F	7	11	5.12	98.86	BIS		FALSE
2005	F	7	12	5.79	99.01	BIS		FALSE
2005	F	7	13	6.80	99.28	BIS		FALSE
2005	F	7	14	8.23	99.58	BIS		FALSE
2005	F	7	15	8.72	99.85	BOT X7R	Bot X7R reb/low	FALSE
2005	F	7	16	8.72	99.95	TOP X7R	Top X7R reb/low	FALSE
2005	F	8	1	0.00	100.00		Top X8L reb/low	FALSE
2005	F	8	2	0.00	99.90		Bot X8L reb/low	FALSE
2005	F	8	3	0.64	99.38	BIS		FALSE
2005	F	8	4	0.98	99.14	BIS		FALSE
2005	F	8	5	1.22	98.54	BIS		FALSE
2005	F	8	6	1.52	98.41	BIS		FALSE
2005	F	8	7	2.13	98.20	BF		FALSE
2005	F	8	8	2.62	97.88	BIS		FALSE
2005	F	8	9	3.63	97.78	EW		FALSE
2005	F	8	10	4.27	97.72	TW		FALSE
2005	F	8	11	4.82	97.79	EW		FALSE
2005	F	8	12	5.09	98.27	BIS		FALSE
2005	F	8	13	6.16	98.56	BIS		FALSE
2005	F	8	14	7.32	98.77	BIS		FALSE
2005	F	8	15	8.99	98.72	BIS		FALSE
2005	F	8	16	9.57	99.16	BIS		FALSE
2005	F	8	17	10.42	99.52	BIS		FALSE
2005	F	8	18	11.31	99.82	TOB		FALSE
2005	F	8	19	11.89	99.82	BIS		FALSE
2005	F	8	20	12.71	99.85	BOT X8R	Bot X8R reb/low	FALSE
2005	F	8	21	12.71	100.03	TOP X8R	Top X8R reb/low	FALSE
2005	F	9	1	0.00	100.00		Top X9L reb/low	FALSE
2005	F	9	2	0.00	99.84		Bot X9L reb/low	FALSE
2005	F	9	3	0.46	99.23	BIS		FALSE
2005	F	9	4	1.25	98.80	BF		FALSE
2005	F	9	5	1.95	98.63	BIS		FALSE
2005	F	9	6	2.26	98.49	EW		FALSE
2005	F	9	7	3.35	98.30	TW		FALSE
2005	F	9	8	3.78	98.40	EW		FALSE
2005	F	9	9	4.30	99.06	TOB		FALSE
2005	F	9	10	5.06	99.12	BIS		FALSE
2005	F	9	11	5.73	99.26	BIS	on top of log	FALSE
2005	F	9	12	6.49	99.17	BIS		FALSE
2005	F	9	13	7.59	99.10	BIS		FALSE
2005	F	9	14	9.69	99.02	BIS		FALSE
2005	F	9	15	10.09	99.55	BIS	on top of boulder	FALSE
2005	F	9	16	10.36	99.55	BIS		FALSE
2005	F	9	17	11.25	99.78	BOT X9R	Bot X9R reb/low	FALSE
2005	F	9	18	11.25	99.96	TOP X9R	Top X9R reb/low	FALSE
2005	F	10	1	0.00	100.00		Top X9L reb/low	FALSE
2005	F	10	2	0.00	99.84		Bot X9L reb/low	FALSE
2005	F	10	3	0.46	99.23	BIS		FALSE
2005	F	10	4	1.25	98.80	BF		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2005	F	10	5	1.95	98.63	BIS		FALSE
2005	F	10	6	2.26	98.49	EW		FALSE
2005	F	10	7	3.35	98.30	TW		FALSE
2005	F	10	8	3.78	98.40	EW		FALSE
2005	F	10	9	4.30	99.06	TOB		FALSE
2005	F	10	10	5.06	99.12	BIS		FALSE
2005	F	10	11	5.73	99.26	BIS	on top of log	FALSE
2005	F	10	12	6.49	99.17	BIS		FALSE
2005	F	10	13	7.59	99.10	BIS		FALSE
2005	F	10	14	9.69	99.02	BIS		FALSE
2005	F	10	15	10.09	99.55	BIS	on top of boulder	FALSE
2005	F	10	16	10.36	99.55	BIS		FALSE
2005	F	10	17	11.25	99.78	BOT X9R	Bot X9R reb/low	FALSE
2005	F	10	18	11.25	99.96	TOP X9R	Top X9R reb/low	FALSE
2006	A	1	1	0.00	100.00	TOP X1L	Top X1L reb/low	FALSE
2006	A	1	2	0.00	99.87	BOT X1L	Bot X1L reb/low	FALSE
2006	A	1	3	0.70	99.69	TOB		FALSE
2006	A	1	4	1.52	99.56	BIS		FALSE
2006	A	1	5	2.41	99.38	BIS		FALSE
2006	A	1	6	3.14	99.23	BIS		FALSE
2006	A	1	7	3.63	98.94	BIS		FALSE
2006	A	1	8	4.05	98.74	EW		FALSE
2006	A	1	9	4.75	98.58	TW		FALSE
2006	A	1	10	5.70	98.74	EW		FALSE
2006	A	1	11	6.19	98.87	BIS		FALSE
2006	A	1	12	6.86	99.19	BF		FALSE
2006	A	1	13	7.59	99.37	TOB		FALSE
2006	A	1	14	9.11	99.81	BOT X1R	Bot X1R reb/low	FALSE
2006	A	1	15	9.11	99.99	TOP X1R	Top X1R reb/low	FALSE
2006	A	2	1	0.00	100.00	TOP X2L	Top X2L reb/low	FALSE
2006	A	2	2	0.00	99.71	BOT X2L	Bot X2L reb/low	FALSE
2006	A	2	3	0.94	99.54	TOB		FALSE
2006	A	2	4	1.86	99.07	BIS		FALSE
2006	A	2	5	2.99	98.77	BF		FALSE
2006	A	2	6	3.90	98.46	BIS		FALSE
2006	A	2	7	4.63	98.13	EW		FALSE
2006	A	2	8	6.19	97.98	TW		FALSE
2006	A	2	9	7.01	98.13	EW		FALSE
2006	A	2	10	7.68	98.58	BIS		FALSE
2006	A	2	11	8.32	98.80	BIS	on top of boulder	FALSE
2006	A	2	12	8.60	99.15	BIS	on top of boulder	FALSE
2006	A	2	13	9.05	99.13	BIS	on top of boulder	FALSE
2006	A	2	14	9.36	98.98	BIS		FALSE
2006	A	2	15	9.75	99.38	BIS		FALSE
2006	A	2	16	10.67	99.66	BOT X2R	Bot X2R reb/low	FALSE
2006	A	2	17	10.67	99.97	TOP X2R	Top X2R reb/low	FALSE
2006	A	3	1	0.00	100.00	TOP X3L	Top X3L reb/low	FALSE
2006	A	3	2	0.00	99.50	BOT X3L	Bot X3L reb/low	FALSE
2006	A	3	3	0.79	99.87	BIS	On top of alder extending from bank to bank	TRUE
2006	A	3	4	1.01	98.81	BIS		FALSE
2006	A	3	5	1.31	98.70	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2006	A	3	6	1.80	98.24	BIS		FALSE
2006	A	3	7	2.23	97.89	EW		FALSE
2006	A	3	8	3.20	97.78	TW		FALSE
2006	A	3	9	4.18	97.91	EW		FALSE
2006	A	3	10	5.24	98.20	BIS		FALSE
2006	A	3	11	5.88	98.46	BIS		FALSE
2006	A	3	12	7.16	98.53	BIS		FALSE
2006	A	3	13	7.65	98.45	BF		FALSE
2006	A	3	14	8.78	98.74	BIS		FALSE
2006	A	3	15	9.75	99.35	BIS		FALSE
2006	A	3	16	10.73	99.73	BOT X3R	Bot X3R reb/low	FALSE
2006	A	3	17	10.73	100.15	TOP X3R	Top X3R reb/low	FALSE
2006	A	4	1	0.00	100.00	TOP X4L	Top X4L reb/low	FALSE
2006	A	4	2	0.00	99.72	BOT X4L	Bot X4L reb/low	FALSE
2006	A	4	3	0.67	99.64	BIS		FALSE
2006	A	4	4	2.01	99.36	TOB		FALSE
2006	A	4	5	2.80	98.70	BF		FALSE
2006	A	4	6	3.29	98.54	EW		FALSE
2006	A	4	7	4.94	98.45	TW		FALSE
2006	A	4	8	5.73	98.54	EW		FALSE
2006	A	4	9	6.80	98.98	BIS		FALSE
2006	A	4	10	7.62	99.13	BIS		FALSE
2006	A	4	11	8.05	99.34	BIS		FALSE
2006	A	4	12	8.66	99.47	BOT X4R	Bot X4R reb/low	FALSE
2006	A	4	13	8.66	99.83	TOP X4R	Top X4R reb/low	FALSE
2006	A	5	1	0.00	100.00	TOP X5L	Top X5L reb/low	FALSE
2006	A	5	2	0.00	99.74	BOT X5L	Bot X5L reb/low	FALSE
2006	A	5	3	1.16	99.79	TOB		FALSE
2006	A	5	4	1.95	99.72	BIS	log extending from TOB to water	FALSE
2006	A	5	5	2.38	99.04	BF		FALSE
2006	A	5	6	3.17	98.64	EW		FALSE
2006	A	5	7	4.11	98.54	TW		FALSE
2006	A	5	8	5.12	98.66	EW		FALSE
2006	A	5	9	6.22	99.13	BIS		FALSE
2006	A	5	10	7.07	99.46	BIS		FALSE
2006	A	5	11	7.77	99.31	BOT X5R	Bot X5R reb/low	FALSE
2006	A	5	12	7.77	99.63	TOP X5R	Top X5R reb/low	FALSE
2006	A	6	1	0.00	100.00	TOP X5L	Top X6L reb/low	FALSE
2006	A	6	2	0.00	99.77	BOT X5L	Bot X6L reb/low	FALSE
2006	A	6	3	0.24	99.64	TOB		FALSE
2006	A	6	4	0.98	98.32	BF		FALSE
2006	A	6	5	1.86	97.97	EW		FALSE
2006	A	6	6	2.80	97.87	TW		FALSE
2006	A	6	7	3.72	98.00	EW		FALSE
2006	A	6	8	4.30	98.58	BIS		FALSE
2006	A	6	9	5.40	99.00	TOB		FALSE
2006	A	6	10	6.58	99.20	BIS		FALSE
2006	A	6	11	8.99	99.22	BIS		FALSE
2006	A	6	12	12.38	99.09	BIS		FALSE
2006	A	6	13	14.36	99.13	BIS		FALSE
2006	A	6	14	15.03	99.43	BOT X6R	Bot X6R reb/low	FALSE
2006	A	6	15	15.03	99.83	TOP X6R	Top X6R reb/low	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2006	A	7	1	0.00	100.00	TOP X6L	Top X7L reb/low	FALSE
2006	A	7	2	0.00	99.78	BOT X6L	Bot X7L reb/low	FALSE
2006	A	7	3	0.61	99.70	TOB		FALSE
2006	A	7	4	0.79	99.33	BIS		FALSE
2006	A	7	5	1.40	98.42	BIS		FALSE
2006	A	7	6	1.68	98.62	BF		FALSE
2006	A	7	7	2.50	98.22	EW		FALSE
2006	A	7	8	3.54	98.13	TW		FALSE
2006	A	7	9	4.63	98.29	EW		FALSE
2006	A	7	10	5.46	98.63	BIS		FALSE
2006	A	7	11	6.68	98.95	TOB		FALSE
2006	A	7	12	8.08	99.17	BIS		FALSE
2006	A	7	13	9.63	99.47	BIS		FALSE
2006	A	7	14	10.94	99.56	BIS		FALSE
2006	A	7	15	15.33	99.29	BIS		FALSE
2006	A	7	16	17.83	99.42	BIS		FALSE
2006	A	7	17	18.71	99.85	BOT X7R	Bot X7R reb/low	FALSE
2006	A	7	18	18.71	100.22	TOP X7R	Top X7R reb/low	FALSE
2006	A	8	1	0.00	100.00	TOP X8L	Top X8L reb/low	FALSE
2006	A	8	2	0.00	99.65	BOT X8L	Bot X8L reb/low	FALSE
2006	A	8	3	0.64	99.57	TOB		FALSE
2006	A	8	4	1.04	98.47	BIS		FALSE
2006	A	8	5	1.86	98.32	BF		FALSE
2006	A	8	6	2.44	98.11	BIS		FALSE
2006	A	8	7	3.20	97.92	EW		FALSE
2006	A	8	8	4.21	97.76	TW		FALSE
2006	A	8	9	5.52	97.93	EW		FALSE
2006	A	8	10	6.22	98.42	TOB		FALSE
2006	A	8	11	8.84	98.77	BIS		FALSE
2006	A	8	12	10.64	98.87	BIS		FALSE
2006	A	8	13	12.13	99.22	BIS		FALSE
2006	A	8	14	15.67	99.07	BIS		FALSE
2006	A	8	15	18.07	99.15	BIS		FALSE
2006	A	8	16	18.87	99.31	BIS		FALSE
2006	A	8	17	19.54	99.63	BOT X8R	Bot X8R reb/low	FALSE
2006	A	8	18	19.54	99.96	TOP X8R	Top X8R reb/low	FALSE
2006	A	9	1	0.00	100.00	TOP X9L	Top X9L reb/low	FALSE
2006	A	9	2	0.00	99.64	BOT X9L	Bot X9L reb/low	FALSE
2006	A	9	3	0.55	99.68	TOB		FALSE
2006	A	9	4	0.79	98.74	BIS		FALSE
2006	A	9	5	1.98	98.51	BIS		FALSE
2006	A	9	6	2.96	98.49	BIS		FALSE
2006	A	9	7	3.69	98.41	BIS		FALSE
2006	A	9	8	3.96	98.34	BIS		FALSE
2006	A	9	9	4.94	98.09	EW		FALSE
2006	A	9	10	6.00	97.98	TW		FALSE
2006	A	9	11	6.77	98.08	EW		FALSE
2006	A	9	12	7.07	98.26	BIS		FALSE
2006	A	9	13	7.96	98.52	BF		FALSE
2006	A	9	14	8.44	98.79	TOB		FALSE
2006	A	9	15	10.18	98.96	BIS		FALSE
2006	A	9	16	12.44	99.09	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2006	A	9	17	13.17	99.45	BIS		FALSE
2006	A	9	18	14.81	99.33	BIS		FALSE
2006	A	9	19	17.34	99.21	BIS		FALSE
2006	A	9	20	19.51	99.41	BIS		FALSE
2006	A	9	21	20.12	99.63	BIS		FALSE
2006	A	9	22	20.57	99.88	BOT X9R	Bot X9R reb/low	FALSE
2006	A	9	23	20.57	100.23	TOP X9R	Top X9R reb/low	FALSE
2006	A	10	1	0.00	100.00	TOP X10L	Top X10L reb/low	FALSE
2006	A	10	2	0.00	99.61	BOT X10L	Bot X10L reb/low	FALSE
2006	A	10	3	0.91	98.57	TOB		FALSE
2006	A	10	4	2.53	98.44	BIS		FALSE
2006	A	10	5	3.78	98.24	BF		FALSE
2006	A	10	6	4.75	98.18	BIS		FALSE
2006	A	10	7	5.91	97.67	BIS		FALSE
2006	A	10	8	8.84	97.50	EW		FALSE
2006	A	10	9	9.63	98.21	TW	top of boulder	FALSE
2006	A	10	10	10.67	98.64	EW		FALSE
2006	A	10	11	13.05	98.97	BIS		FALSE
2006	A	10	12	15.61	99.07	BIS		FALSE
2006	A	10	13	17.01	98.99	BIS		FALSE
2006	A	10	14	18.99	99.35	BIS		FALSE
2006	A	10	15	20.21	99.81	BOT X10R	Bot X10R reb/low	FALSE
2006	A	10	16	20.21	100.01	TOP X10R	Top X10R reb/low	FALSE
2006	B	1	1	0.00	100.00	TOP X1L	Top X1L reb/low	FALSE
2006	B	1	2	0.00	99.87	BOT X1L	Bot X1L reb/low	FALSE
2006	B	1	3	0.43	99.23	BIS		FALSE
2006	B	1	4	1.16	98.35	BIS		FALSE
2006	B	1	5	1.95	98.05	BIS		FALSE
2006	B	1	6	2.56	97.73	BIS		FALSE
2006	B	1	7	2.87	97.59	EW		FALSE
2006	B	1	8	3.35	97.52	TW		FALSE
2006	B	1	9	5.82	97.58	EW		FALSE
2006	B	1	10	7.16	97.88	BF		FALSE
2006	B	1	11	8.14	98.58	BIS		FALSE
2006	B	1	12	9.08	99.14	BIS		FALSE
2006	B	1	13	10.03	99.80	BOT X1R	Bot X1R reb/low	FALSE
2006	B	1	14	10.03	99.99	TOP X1R	Top X1R reb/low	FALSE
2006	B	2	1	0.00	100.00	TOP X2L	Top X2L reb/low	FALSE
2006	B	2	2	0.00	99.60	BOT X2L	Bot X2L reb/low	FALSE
2006	B	2	3	0.27	99.08	BIS		FALSE
2006	B	2	4	0.73	98.87	BIS		FALSE
2006	B	2	5	1.83	98.38	BIS		FALSE
2006	B	2	6	2.50	97.76	BIS		FALSE
2006	B	2	7	3.26	97.44	EW		FALSE
2006	B	2	8	5.21	97.29	TW		FALSE
2006	B	2	9	6.16	97.40	EW		FALSE
2006	B	2	10	7.32	97.54	BIS		FALSE
2006	B	2	11	7.77	97.81	BIS		FALSE
2006	B	2	12	8.53	98.13	BF		FALSE
2006	B	2	13	9.72	99.16	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2006	B	2	14	10.12	99.35	BOT X2R	Bot X2R reb/low Right bank rebar very bent (almost 90 degrees from original position), so reading was taken from top of rebar down	FALSE
2006	B	2	15	10.12	99.73	TOP X2R	Top X2R reb/low Note: The distance between the original top and bottom right rebar is 1.2 feet	FALSE
2006	B	3	1	0.00	100.00	TOP X3L	Top X3L reb/low	FALSE
2006	B	3	2	0.00	99.44	BOT X3L	Bot X3L reb/low	FALSE
2006	B	3	3	0.67	99.04			FALSE
2006	B	3	4	1.22	98.71			FALSE
2006	B	3	5	2.16	98.13			FALSE
2006	B	3	6	3.87	98.05			FALSE
2006	B	3	7	5.18	97.91			FALSE
2006	B	3	8	5.85	98.00			FALSE
2006	B	3	9	7.04	98.62			FALSE
2006	B	3	10	7.89	99.22			FALSE
2006	B	3	11	8.41	99.87	BOT X3R	Bot X3R reb/low	FALSE
2006	B	3	12	8.41	99.98	TOP X3R	Top X3R reb/low	FALSE
2006	B	4	1	0.00	100.00	TOP X4L	Top X4L reb/low	FALSE
2006	B	4	2	0.00	99.87	BOT X4L	Bot X4L reb/low	FALSE
2006	B	4	3	0.73	99.66	BIS		FALSE
2006	B	4	4	1.40	99.45	BIS		FALSE
2006	B	4	5	2.07	98.66	BIS		FALSE
2006	B	4	6	3.60	98.94	BIS		FALSE
2006	B	4	7	4.27	98.55	EW		FALSE
2006	B	4	8	5.49	98.69	TW	Top of Rock Step (large boulder)	FALSE
2006	B	4	9	6.52	98.66	EW		FALSE
2006	B	4	10	7.10	99.49	BIS	Top of large boulder	FALSE
2006	B	4	11	7.41	99.57	BOT X4R	Bot X4R reb/low	FALSE
2006	B	4	12	7.41	100.02	TOP X4R	Top X4R reb/low	FALSE
2006	B	5	1	0.00	100.00	TOP X5L	Top X5L reb/low	FALSE
2006	B	5	2	0.00	99.55	BOT X5L	Bot X5L reb/low	FALSE
2006	B	5	3	0.61	99.13	BIS		FALSE
2006	B	5	4	1.37	98.65	BIS		FALSE
2006	B	5	5	1.92	98.34	BF		FALSE
2006	B	5	6	2.93	98.04	BIS		FALSE
2006	B	5	7	4.33	97.79	EW		FALSE
2006	B	5	8	5.27	97.71	TW		FALSE
2006	B	5	9	6.68	97.86	EW		FALSE
2006	B	5	10	8.20	99.85	BOT X5R	Bot X5R reb/low	FALSE
2006	B	5	11	8.20	100.00	TOP X5R	Top X5R reb/low	FALSE
2006	B	6	1	0.00	100.00	TOP X6L	Top X6L reb/low	FALSE
2006	B	6	2	0.00	99.92	BOT X6L	Bot X6L reb/low	FALSE
2006	B	6	3	0.76	99.46	BIS		FALSE
2006	B	6	4	1.37	99.20	BF		FALSE
2006	B	6	5	2.29	98.79	BIS		FALSE
2006	B	6	6	3.60	98.39	EW		FALSE
2006	B	6	7	4.36	98.26	TW		FALSE
2006	B	6	8	5.18	98.37	EW		FALSE
2006	B	6	9	6.28	98.67	BIS		FALSE
2006	B	6	10	7.01	99.03	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2006	B	6	11	7.47	99.43	BIS		FALSE
2006	B	6	12	7.92	99.90	BOT X6R	Bot X6R reb/low	FALSE
2006	B	6	13	7.92	100.02	TOP X6R	Top X6R reb/low	FALSE
2006	B	7	1	0.00	100.00	TOP X7L	Top X7L reb/low	FALSE
2006	B	7	2	0.00	99.46	BOT X7L	Bot X7L reb/low Left bank rebar significantly tilted 6 inches horizontal difference between bottom and top	FALSE
2006	B	7	3	0.67	99.07	BF		FALSE
2006	B	7	4	1.58	98.45	BIS		FALSE
2006	B	7	5	3.08	98.11	EW		FALSE
2006	B	7	6	4.57	98.03	TW		FALSE
2006	B	7	7	5.64	98.09	EW		FALSE
2006	B	7	8	6.19	98.42	BIS		FALSE
2006	B	7	9	6.71	98.81	BIS	Moved Tripod	FALSE
2006	B	7	10	7.56	99.26	BIS		FALSE
2006	B	7	11	8.60	99.46	BIS		FALSE
2006	B	7	12	9.48	99.83	BOT X7R	Bot X7R reb/low	FALSE
2006	B	7	13	9.48	100.07	TOP X7R	Top X7R reb/low	FALSE
2006	B	8	1	0.00	100.00	TOP X8L	Top X8L reb/low	FALSE
2006	B	8	2	0.00	99.67	BOT X8L	Bot X8L reb/low	FALSE
2006	B	8	3	0.30	99.38	BIS		FALSE
2006	B	8	4	0.55	98.93	BIS		FALSE
2006	B	8	5	1.04	98.90	EW		FALSE
2006	B	8	6	2.74	98.78	TW		FALSE
2006	B	8	7	2.93	98.81	EW		FALSE
2006	B	8	8	3.29	99.74	BIS		FALSE
2006	B	8	9	5.12	99.72	BOT X8R	Bot X8R reb/low	FALSE
2006	B	8	10	5.12	99.90	TOP X8R	Top X8R reb/low	FALSE
2006	B	9	1	0.00	100.00	TOP X9L	Top X9L reb/low	FALSE
2006	B	9	2	0.00	99.97	BOT X9L	Bot X9L reb/low Left bank rebar significantly bent/13 inch horizontal distance between top and bottom rebar	FALSE
2006	B	9	3	0.40	97.77	BIS		FALSE
2006	B	9	4	0.88	97.69	EW		FALSE
2006	B	9	5	1.98	97.68	TW		FALSE
2006	B	9	6	3.35	97.94	EW		FALSE
2006	B	9	7	5.15	98.45	BIS		FALSE
2006	B	9	8	6.95	98.80	BF		FALSE
2006	B	9	9	7.92	99.00	BIS		FALSE
2006	B	9	10	10.79	98.98	BIS		FALSE
2006	B	9	11	12.04	99.57	BIS		FALSE
2006	B	9	12	13.53	100.27	BOT X9R	Bot X9R reb/low	FALSE
2006	B	9	13	13.53	100.27	TOP X9R	Top X9R reb/low	FALSE
2006	B	10	1	0.00	100.00	TOP X10L	Top X10L reb/low	FALSE
2006	B	10	2	0.00	99.70	TOP X10R	Bot X10L reb/low	FALSE
2006	B	10	3	0.49	97.13	BIS		FALSE
2006	B	10	4	0.94	97.16	TW		FALSE
2006	B	10	5	3.57	97.42	SB		FALSE
2006	B	10	6	3.99	97.40	EW		FALSE
2006	B	10	7	6.00	98.11	TOB		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2006	B	10	8	6.95	98.31	BIS		FALSE
2006	B	10	9	9.66	98.27	BIS		FALSE
2006	B	10	10	11.40	98.22	BIS		FALSE
2006	B	10	11	13.20	98.52	BIS		FALSE
2006	B	10	12	15.33	99.59	BOT X10R	Bot X10R reb/low Bottom Right Rebar not representative because of erosion	FALSE
2006	B	10	13	15.33	100.01	TOP X10R	Top X10R reb/low	FALSE
2006	C	1	1	0.00	100.00		Top X1L reb/low	FALSE
2006	C	1	2	0.00	99.83		Bot X1L reb/low	FALSE
2006	C	1	3	0.64	99.12	BIS		FALSE
2006	C	1	4	0.91	99.95	BIS	Top of Log	TRUE
2006	C	1	5	1.19	99.64	BIS		TRUE
2006	C	1	6	2.32	98.77	EW		FALSE
2006	C	1	7	2.93	98.71	TW		FALSE
2006	C	1	8	3.54	98.80	BIS		FALSE
2006	C	1	9	5.43	98.91	EW		FALSE
2006	C	1	10	7.65	99.26	BIS		FALSE
2006	C	1	11	9.21	99.48	BF		FALSE
2006	C	1	12	10.52	99.40	BIS		FALSE
2006	C	1	13	11.89	99.82	BIS		FALSE
2006	C	1	14	12.25	100.08	BOT X1R	Bot X1R reb/low	FALSE
2006	C	1	15	12.25	100.45	TOP X1R	Top X1R reb/low	FALSE
2006	C	2				BOT X2R	Bot X2R reb/low	FALSE
2006	C	2				TOP X2R	Top X2R reb/low	FALSE
2006	C	2	1	0.00	100.00		Top X2L reb/low	FALSE
2006	C	2	2	0.00	99.66		Bot X2L reb/low	FALSE
2006	C	2	3	0.64	99.16	BIS		FALSE
2006	C	2	4	0.76	99.31	BIS	Top of Log	TRUE
2006	C	2	5	0.88	98.93	BIS		FALSE
2006	C	2	6	2.74	98.76	BIS		FALSE
2006	C	2	7	2.83	99.47	BIS	Top of Log	TRUE
2006	C	2	8	2.96	98.76	BIS		FALSE
2006	C	2	9	5.09	97.86	BIS		FALSE
2006	C	2	10	5.91	97.79	EW		FALSE
2006	C	2	11	7.04	97.68	TW		FALSE
2006	C	2	12	7.92	97.81	BIS	Rocky Deposition	FALSE
2006	C	2	13	9.21	97.82	EW		FALSE
2006	C	2	14	10.03	98.19	BF		FALSE
2006	C	2	15	12.19	98.34	BIS		FALSE
2006	C	3	1	0.00	100.00		Top X3L reb/low	FALSE
2006	C	3	2	0.00	99.66		Bot X3L reb/low	FALSE
2006	C	3	3	1.43	99.19	BIS		FALSE
2006	C	3	4	2.26	98.72	BIS		FALSE
2006	C	3	5	3.11	98.71	BIS		FALSE
2006	C	3	6	3.60	98.76	BIS		FALSE
2006	C	3	7	4.88	98.48	BIS		FALSE
2006	C	3	8	7.22	98.13	EW		FALSE
2006	C	3	9	8.84	97.98	TW		FALSE
2006	C	3	10	9.75	98.10	EW		FALSE
2006	C	3	11	10.03	98.24	BIS		FALSE
2006	C	3	12	10.24	98.49	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2006	C	3	13	12.16	99.01	BF		FALSE
2006	C	3	14	13.99	99.79	BOT X3R	Bot X3R reb/low	FALSE
2006	C	3	15	13.99	100.00	TOP X3R	Top X3R reb/low	FALSE
2006	C	4	1	0.00	100.00		Top X4L reb/low	FALSE
2006	C	4	2	0.00	99.69		Bot X4L reb/low	FALSE
2006	C	4	3	0.61	99.32	BIS		FALSE
2006	C	4	4	1.31	98.77	BIS		FALSE
2006	C	4	5	2.10	98.47	BIS		FALSE
2006	C	4	6	4.02	98.59	BIS		FALSE
2006	C	4	7	4.85	98.35	BIS		FALSE
2006	C	4	8	7.10	98.03	EW		FALSE
2006	C	4	9	7.77	97.89	TW		FALSE
2006	C	4	10	9.45	98.02	EW		FALSE
2006	C	4	11	10.18	98.39	BIS		FALSE
2006	C	4	12	10.45	98.85	BF		FALSE
2006	C	4	13	11.06	98.84	BIS		FALSE
2006	C	4	14	11.89	99.66	BOT X4R	Bot X4R reb/low	FALSE
2006	C	4	15	11.89	99.98	TOP X4R	Top X4R reb/low	FALSE
2006	C	5	1	0.00	100.00		Top X5L reb/low	FALSE
2006	C	5	2	0.00	99.64		Bot X5L reb/low	FALSE
2006	C	5	3	1.19	99.12	BIS		FALSE
2006	C	5	4	3.84	98.61	BIS		FALSE
2006	C	5	5	5.40	98.56	BF		FALSE
2006	C	5	6	6.46	98.07	EW		FALSE
2006	C	5	7	7.74	97.96	TW		FALSE
2006	C	5	8	8.75	98.12	EW		FALSE
2006	C	5	9	9.27	98.35	BIS		FALSE
2006	C	5	10	10.06	98.87	BIS		FALSE
2006	C	5	11	10.76	98.92	BIS		FALSE
2006	C	5	12	12.19	99.60	BOT X5R	Bot X5R reb/low	FALSE
2006	C	5	13	12.19	100.12	TOP X5R	Top X5R reb/low	FALSE
2006	C	6	1	0.00	100.00		Top X6L reb/low	FALSE
2006	C	6	2	0.00	99.72		Bot X6L reb/low	FALSE
2006	C	6	3	0.61	99.20	BIS		FALSE
2006	C	6	4	0.91	98.95	BIS		FALSE
2006	C	6	5	2.29	98.70	BF		FALSE
2006	C	6	6	3.84	98.17	BIS		FALSE
2006	C	6	7	4.48	97.96	EW		FALSE
2006	C	6	8	5.09	98.03	BIS	Sandbar/deposition instream	FALSE
2006	C	6	9	6.40	97.90	BIS	Sandbar/deposition instream	FALSE
2006	C	6	10	6.92	97.87	TW		FALSE
2006	C	6	11	7.96	98.01	EW		FALSE
2006	C	6	12	8.63	98.06	BIS		FALSE
2006	C	6	13	9.39	98.61	BIS		FALSE
2006	C	6	14	9.66	98.50	TOB		FALSE
2006	C	6	15	10.03	98.76	BIS		FALSE
2006	C	6	16	10.82	99.23	BIS	On top of rock	FALSE
2006	C	6	17	11.40	99.14	BIS		FALSE
2006	C	6	18	12.19	99.16	BIS		FALSE
2006	C	6	19	12.92	99.77	BOT X6R	Bot X6R reb/low	FALSE
2006	C	6	20	12.92	100.01	TOP X6R	Top X6R reb/low	FALSE
2006	C	7	1	0.00	100.00		Top X7L reb/low	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2006	C	7	2	0.00	99.77		Bot X7L reb/low	FALSE
2006	C	7	3	0.49	99.11	BIS		FALSE
2006	C	7	4	1.86	98.88	TOB		FALSE
2006	C	7	5	2.19	98.38	BIS		FALSE
2006	C	7	6	2.56	98.37	BIS		FALSE
2006	C	7	7	2.74	97.81	EW		FALSE
2006	C	7	8	3.05	97.76	TW		FALSE
2006	C	7	9	4.27	98.00	BIS	Deposition in middle of stream	FALSE
2006	C	7	10	4.88	98.04	EW		FALSE
2006	C	7	11	6.68	98.32	BIS		FALSE
2006	C	7	12	7.41	98.74	BIS		FALSE
2006	C	7	13	7.74	99.13	TOB		FALSE
2006	C	7	14	8.72	98.99	BIS		FALSE
2006	C	7	15	10.24	99.00	BIS		FALSE
2006	C	7	16	10.79	98.76	BIS		FALSE
2006	C	7	17	12.13	99.09	BIS		FALSE
2006	C	7	18	12.77	99.30	BIS		FALSE
2006	C	7	19	13.32	99.80	BOT X7R	Bot X7R reb/low	FALSE
2006	C	7	20	13.32	100.03	TOP X7R	Top X7R reb/low	FALSE
2006	C	8	1	0.00	100.00		Top X8L reb/low	FALSE
2006	C	8	2	0.00	99.57		Bot X8L reb/low	FALSE
2006	C	8	3	0.61	97.72	EW		FALSE
2006	C	8	4	1.83	97.87	BIS	in stream	FALSE
2006	C	8	5	2.74	97.73	BIS	in stream	FALSE
2006	C	8	6	3.32	97.55	TW		FALSE
2006	C	8	7	3.96	97.75	EW		FALSE
2006	C	8	8	4.91	98.45	BIS		FALSE
2006	C	8	9	6.16	99.10	TOB		FALSE
2006	C	8	10	10.18	98.83	BIS		FALSE
2006	C	8	11	12.16	98.69	BIS		FALSE
2006	C	8	12	14.05	99.68	BOT X8R	Bot X8R reb/low	FALSE
2006	C	8	13	14.05	100.05	TOP X8R	Top X8R reb/low	FALSE
2006	C	9	1	0.00	100.00		Top X9L reb/low	FALSE
2006	C	9	2	0.00	99.67		Bot X9L reb/low	FALSE
2006	C	9	3	0.27	98.52	BIS		FALSE
2006	C	9	4	3.72	97.46	EW		FALSE
2006	C	9	5	4.54	97.39	TW		FALSE
2006	C	9	6	5.09	97.53	EW		FALSE
2006	C	9	7	5.88	98.11	BIS		FALSE
2006	C	9	8	6.61	98.62	TOB		FALSE
2006	C	9	9	7.86	98.78	BIS		FALSE
2006	C	9	10	13.11	98.52	BIS		FALSE
2006	C	9	11	14.63	98.73	BIS		FALSE
2006	C	9	12	15.61	99.47	BOT X9R	Bot X9R reb/low	FALSE
2006	C	9	13	15.61	99.50	TOP X9R	Top X9R reb/low	FALSE
2006	C	10	1	0.00	100.00		Top X10L reb/low	FALSE
2006	C	10	2	0.00	99.76		Bot X10L reb/low	FALSE
2006	C	10	3	0.94	99.15	BIS		FALSE
2006	C	10	4	1.74	98.77	BIS		FALSE
2006	C	10	5	2.96	97.93	BIS		FALSE
2006	C	10	6	3.78	98.02	BIS		FALSE
2006	C	10	7	4.45	97.92	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2006	C	10	8	4.69	98.10	BIS	on top of boulder	FALSE
2006	C	10	9	5.12	97.60	BIS		FALSE
2006	C	10	10	5.40	97.47	EW		FALSE
2006	C	10	11	6.80	97.31	TW		FALSE
2006	C	10	12	7.44	97.47	EW		FALSE
2006	C	10	13	8.32	97.62	BIS		FALSE
2006	C	10	14	9.88	97.83	BF		FALSE
2006	C	10	15	11.73	98.42	TOB		FALSE
2006	C	10	16	12.92	98.76	BIS		FALSE
2006	C	10	17	15.21	98.84	BIS		FALSE
2006	C	10	18	16.43	99.24	BIS		FALSE
2006	C	10	19	16.79	99.97	BOT X10R	Bot X10R reb/low	FALSE
2006	C	10	20	16.79	99.99	TOP X10R	Top X10R reb/low	FALSE
2006	D	1	1	0.00	100.00		Top X1L reb/upper	FALSE
2006	D	1	2	0.00	99.66		Bot X1L reb/upper	FALSE
2006	D	1	3	0.82	99.18			FALSE
2006	D	1	4	2.13	98.62			FALSE
2006	D	1	5	2.50	98.83			FALSE
2006	D	1	6	2.87	98.17			FALSE
2006	D	1	7	3.35	97.68			FALSE
2006	D	1	8	4.51	97.67			FALSE
2006	D	1	9	5.76	97.96			FALSE
2006	D	1	10	6.22	98.69			FALSE
2006	D	1	11	6.89	98.65	BOT X1L	Bot X1L reb/low	FALSE
2006	D	1	12	6.89	98.86	TOP X1L	Top X1L reb/low	FALSE
2006	D	1	13	7.19	98.59			FALSE
2006	D	1	14	7.77	97.50			FALSE
2006	D	1	15	8.96	96.81			FALSE
2006	D	1	16	10.09	96.63			FALSE
2006	D	1	17	11.16	96.82			FALSE
2006	D	1	18	12.07	97.16			FALSE
2006	D	1	19	13.05	97.34			FALSE
2006	D	1	20	13.99	97.91			FALSE
2006	D	1	21	14.57	98.05			FALSE
2006	D	1	22	15.09	98.40			FALSE
2006	D	1	23	16.46	98.56			FALSE
2006	D	1	24	17.98	100.08	BOT X1R	Bot X1R reb/upper	FALSE
2006	D	1	25	17.98	100.44	TOP X1R	Top X1R reb/upper	FALSE
2006	D	2	1	0.00	100.00		Top X2L reb/low	FALSE
2006	D	2	2	0.00	99.70		Bot X2L reb/low	FALSE
2006	D	2	3	0.55	99.70	TOB		FALSE
2006	D	2	4	1.74	98.64	BIS		FALSE
2006	D	2	5	2.74	98.52	EW		FALSE
2006	D	2	6	3.99	98.40	TW		FALSE
2006	D	2	7	4.45	98.46	EW		FALSE
2006	D	2	8	5.46	98.75	BIS		FALSE
2006	D	2	9	6.28	99.02	BF		FALSE
2006	D	2	10	7.47	99.57	TOB		FALSE
2006	D	2	11	9.39	99.79	BOT X2R	Bot X2R reb/low	FALSE
2006	D	2	12	9.39	100.02	TOP X2R	Top X2R reb/low	FALSE
2006	D	3	1	0.00	100.00		Top X3L reb/low	FALSE
2006	D	3	2	0.00	99.80		Bot X3L reb/low	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2006	D	3	3	0.98	99.79	TOB		FALSE
2006	D	3	4	1.77	98.84	BIS		FALSE
2006	D	3	5	2.62	98.66	BIS		FALSE
2006	D	3	6	3.11	98.55	EW		FALSE
2006	D	3	7	4.21	98.33	TW		FALSE
2006	D	3	8	4.60	98.55	EW		FALSE
2006	D	3	9	5.33	99.17	BF		FALSE
2006	D	3	10	5.61	99.50	BIS	Rootwad	FALSE
2006	D	3	11	6.46	99.88	BIS	Rootwad	FALSE
2006	D	3	12	6.71	99.74	BIS		FALSE
2006	D	3	13	7.19	99.24	BIS		FALSE
2006	D	3	14	8.81	99.27	BIS		FALSE
2006	D	3	15	10.58	99.49	BIS		FALSE
2006	D	3	16	11.06	99.92	BOT X3R	Bot X3R reb/low	FALSE
2006	D	3	17	11.06	100.03	TOP X3R	Top X3R reb/low	FALSE
2006	D	4	1	0.00	100.00		Top X4L reb/upper (on top of stump)	FALSE
2006	D	4	2	0.00	99.18		Bot X4L reb/upper (on top of stump)	FALSE
2006	D	4	3	0.58	97.74	BIS	Bottom of stump; bank eroded under and	FALSE
2006	D	4	4	1.55	96.37	EW	moved tripod/very high rebar (@ dist. 1.9)	FALSE
2006	D	4	5	2.10	96.27	TW		FALSE
2006	D	4	6	3.32	96.42	EW		FALSE
2006	D	4	7	4.33	96.78	BIS		FALSE
2006	D	4	8	5.67	97.17	BF		FALSE
2006	D	4	9	6.98	97.15	BIS		FALSE
2006	D	4	10	7.89	97.27	BIS		FALSE
2006	D	4	11	9.85	98.07	BIS		FALSE
2006	D	4	12	11.49	98.24	BIS	moved tripod/very high rebar	FALSE
2006	D	4	13	13.87	100.57	BOT X4R	Bot X4R reb/upper	FALSE
2006	D	4	14	13.87	100.29	TOP X4R	Top X4R reb/upper	FALSE
2006	D	5	1	0.00	100.00		Top X5L reb/low	FALSE
2006	D	5	2	0.00	99.63		Bot X5L reb/low	FALSE
2006	D	5	3	0.24	99.48	TOB		FALSE
2006	D	5	4	0.88	98.41	BIS		FALSE
2006	D	5	5	3.93	97.93	EW		FALSE
2006	D	5	6	4.21	97.88	TW		FALSE
2006	D	5	7	4.94	97.99	BIS		FALSE
2006	D	5	8	6.25	98.47	BIS		FALSE
2006	D	5	9	7.07	98.96	BF	on top of boulder	FALSE
2006	D	5	10	7.77	98.96	BIS		FALSE
2006	D	5	11	8.20	99.50	TOB		FALSE
2006	D	5	12	9.42	99.69	BIS		FALSE
2006	D	5	13	10.15	99.62	BIS		FALSE
2006	D	5	14	10.85	99.59	BOT X5R	Bot X5R reb/low	FALSE
2006	D	5	15	10.85	100.00	TOP X5R	Top X5R reb/low	FALSE
2006	D	6	1	0.00	100.00		Top X6L reb/low	FALSE
2006	D	6	2	0.00	99.83		Bot X6L reb/low	FALSE
2006	D	6	3	0.67	99.66	BIS		FALSE
2006	D	6	4	1.04	98.34	BF		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2006	D	6	5	2.80	98.00	BIS		FALSE
2006	D	6	6	3.72	97.63	EW		FALSE
2006	D	6	7	4.72	97.54	TW		FALSE
2006	D	6	8	6.83	97.70	EW		FALSE
2006	D	6	9	8.11	99.15	BIS		FALSE
2006	D	6	10	9.45	99.49	BIS		FALSE
2006	D	6	11	9.94	99.68	BOT X6R	Bot X6R reb/low	FALSE
2006	D	6	12	9.94	100.03	TOP X6R	Top X6R reb/low	FALSE
2006	D	7	1	0.00	100.00		Top X7L reb/low	FALSE
2006	D	7	2	0.00	99.75		Bot X7L reb/low	FALSE
2006	D	7	3	0.40	98.84	BF		FALSE
2006	D	7	4	0.79	99.68	BIS	on top of log	TRUE
2006	D	7	5	1.19	98.51	BIS		FALSE
2006	D	7	6	1.80	98.37	BIS		FALSE
2006	D	7	7	2.74	97.82	EW		FALSE
2006	D	7	8	3.60	97.67	TW		FALSE
2006	D	7	9	4.21	97.83	EW		FALSE
2006	D	7	10	5.55	97.92	BIS		FALSE
2006	D	7	11	6.49	99.44	BIS		FALSE
2006	D	7	12	7.01	99.29	BIS		FALSE
2006	D	7	13	7.68	99.76	BOT X7R	Bot X7R reb/low	FALSE
2006	D	7	14	7.68	99.97	TOP X7R	Top X7R reb/low	FALSE
2006	D	8	1	0.00	100.00		Top X8L reb/low	FALSE
2006	D	8	2	0.00	99.73		Bot X8L reb/low	FALSE
2006	D	8	3	0.91	99.15	TOB		FALSE
2006	D	8	4	1.31	98.07	BIS		FALSE
2006	D	8	5	1.86	97.86	EW		FALSE
2006	D	8	6	2.74	97.77	TW		FALSE
2006	D	8	7	4.51	97.80	EW		FALSE
2006	D	8	8	5.79	98.27	BIS		FALSE
2006	D	8	9	6.31	98.61	BIS		FALSE
2006	D	8	10	6.83	99.79	BOT X8R	Bot X8R reb/low	FALSE
2006	D	8	11	6.83	100.03	TOP X8R	Top X8R reb/low	FALSE
2006	D	9	1	0.00	100.00		Top X9L reb/low	FALSE
2006	D	9	2	0.00	99.87		Bot X9L reb/low	FALSE
2006	D	9	3	0.55	98.91	BF		FALSE
2006	D	9	4	0.88	98.74	BIS		FALSE
2006	D	9	5	2.65	98.63	EW	top of log	FALSE
2006	D	9	6	3.35	98.45	TW		FALSE
2006	D	9	7	4.05	98.50	BIS		FALSE
2006	D	9	8	4.79	98.90	BIS		FALSE
2006	D	9	9	7.01	99.21	BIS		FALSE
2006	D	9	10	7.16	99.77	BOT X9R	Bot X9R reb/low	FALSE
2006	D	9	11	7.16	100.00	TOP X9R	Top X9R reb/low	FALSE
2006	D	10	1	0.00	100.00		Top X10L reb/low	FALSE
2006	D	10	2	0.00	99.71		Bot X10L reb/low	FALSE
2006	D	10	3	0.82	99.13	BF		FALSE
2006	D	10	4	1.58	98.48	BIS		FALSE
2006	D	10	5	2.83	98.24	EW		FALSE
2006	D	10	6	4.15	98.13	TW		FALSE
2006	D	10	7	4.88	98.27	EW		FALSE
2006	D	10	8	6.49	98.52	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2006	D	10	9	6.86	98.89	BIS		FALSE
2006	D	10	10	7.32	100.02	BOT X10R	Bot X10R reb/low	FALSE
2006	D	10	11	7.32	100.00	TOP X10R	Top X10R reb/low	FALSE
2006	E	1	1	0.00	100.00		Top X1L reb/low	FALSE
2006	E	1	2	0.00	99.68		Bot X1L reb/low	FALSE
2006	E	1	3	0.73	99.25	BIS		FALSE
2006	E	1	4	1.80	98.91	BIS		FALSE
2006	E	1	5	2.96	98.93	BIS		FALSE
2006	E	1	6	3.90	98.70	BIS		FALSE
2006	E	1	7	4.66	98.47	BF		FALSE
2006	E	1	8	5.18	98.34	BIS		FALSE
2006	E	1	9	5.91	98.21	EW		FALSE
2006	E	1	10	6.28	98.11	TW		FALSE
2006	E	1	11	6.89	98.17	EW		FALSE
2006	E	1	12	7.47	99.81	BOT X1R	Bot X1R reb/low	FALSE
2006	E	1	13	7.47	99.88	TOP X1R	Top X1R reb/low	FALSE
2006	E	2	1	0.00	100.00		Top X2L reb/low	FALSE
2006	E	2	2	0.00	99.58		Bot X2L reb/low	FALSE
2006	E	2	3	0.21	99.24	BIS		FALSE
2006	E	2	4	0.43	98.81	BIS		FALSE
2006	E	2	5	1.19	98.56	BIS		FALSE
2006	E	2	6	2.07	98.29	EW		FALSE
2006	E	2	7	2.87	98.29	TW		FALSE
2006	E	2	8	3.47	98.42	EW		FALSE
2006	E	2	9	4.18	98.68	BIS		FALSE
2006	E	2	10	4.75	99.07	BF		FALSE
2006	E	2	11	4.97	99.35	TOB		FALSE
2006	E	2	12	5.88	99.67	BOT X2R	Bot X2R reb/low	FALSE
2006	E	2	13	5.88	100.03	TOP X2R	Top X2R reb/low	FALSE
2006	E	3	1	0.00	100.00		Top X3L reb/low	FALSE
2006	E	3	2	0.00	99.46		Bot X3L reb/low	FALSE
2006	E	3	3	0.82	98.81	BIS		FALSE
2006	E	3	4	1.58	98.48	BIS		FALSE
2006	E	3	5	1.95	97.97	EW		FALSE
2006	E	3	6	3.51	97.78	TW		FALSE
2006	E	3	7	3.87	97.90	EW		FALSE
2006	E	3	8	4.45	98.05	BIS		FALSE
2006	E	3	9	5.21	98.48	BF		FALSE
2006	E	3	10	5.67	98.99	TOB		FALSE
2006	E	3	11	7.01	99.21	BIS		FALSE
2006	E	3	12	7.28	99.52	BOT X3R	Bot X3R reb/low	FALSE
2006	E	3	13	7.28	100.02	TOP X3R	Top X3R reb/low	FALSE
2006	E	4	1	0.00	100.00		Top X4L reb/low	FALSE
2006	E	4	2	0.00	99.60		Bot X4L reb/low	FALSE
2006	E	4	3	0.46	99.45	BIS		FALSE
2006	E	4	4	0.82	99.08	BF		FALSE
2006	E	4	5	1.46	98.80	BIS		FALSE
2006	E	4	6	2.04	98.66	EW		FALSE
2006	E	4	7	2.74	98.55	TW		FALSE
2006	E	4	8	4.82	98.54	EW		FALSE
2006	E	4	9	5.64	98.76	BIS		FALSE
2006	E	4	10	5.94	99.49	TOB		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2006	E	4	11	7.62	99.78	BOT X4R	Bot X4R reb/low	FALSE
2006	E	4	12	7.62	100.03	TOP X4R	Top X4R reb/low	FALSE
2006	E	5	1	0.00	100.00		Top X5L reb/low	FALSE
2006	E	5	2	0.00	99.68		Bot X5L reb/low	FALSE
2006	E	5	3	0.37	99.62	TOB		FALSE
2006	E	5	4	0.79	99.47	BIS		FALSE
2006	E	5	5	1.65	98.85	EW	side channel; not part of main stream	FALSE
2006	E	5	6	2.59	98.72	EW		FALSE
2006	E	5	7	3.57	98.63	TW		FALSE
2006	E	5	8	4.24	98.72	EW		FALSE
2006	E	5	9	5.33	99.20	BF		FALSE
2006	E	5	10	5.85	99.78	TOB		FALSE
2006	E	5	11	7.92	99.90	BOT X5R	Bot X5R reb/low	FALSE
2006	E	5	12	7.92	100.31	TOP X5R	Top X5R reb/low	FALSE
2006	E	6	1	0.00	100.00		Top X6L reb/low	FALSE
2006	E	6	2	0.00	99.59		Bot X6L reb/low	FALSE
2006	E	6	3	1.07	98.45	EW	on top of large boulder	FALSE
2006	E	6	4	1.86	98.27	TW		FALSE
2006	E	6	5	2.38	98.40	EW		FALSE
2006	E	6	6	3.96	98.65	BIS		FALSE
2006	E	6	7	4.54	99.00	BF		FALSE
2006	E	6	8	4.91	99.51	TOB		FALSE
2006	E	6	9	5.36	99.66	BOT X6R	Bot X6R reb/low	FALSE
2006	E	6	10	5.36	100.00	TOP X6R	Top X6R reb/low	FALSE
2006	E	7	1	0.00	100.00		Top X7L reb/low	FALSE
2006	E	7	2	0.00	99.76		Bot X7L reb/low	FALSE
2006	E	7	3	0.73	99.44	BIS		FALSE
2006	E	7	4	1.31	98.45	EW		FALSE
2006	E	7	5	2.16	98.41	TW		FALSE
2006	E	7	6	3.87	98.55	EW		FALSE
2006	E	7	7	4.82	99.66	TOB		FALSE
2006	E	7	8	5.79	99.67	BIS		FALSE
2006	E	7	9	6.49	99.67	BOT X7R	Bot X7R reb/low	FALSE
2006	E	7	10	6.49	100.00	TOP X7R	Top X7R reb/low	FALSE
2006	E	8	1	0.00	100.00		Top X8L reb/low	FALSE
2006	E	8	2	0.00	99.68		Bot X8L reb/low	FALSE
2006	E	8	3	0.40	99.42	BF		FALSE
2006	E	8	4	1.04	98.80	BIS		FALSE
2006	E	8	5	1.34	98.59	EW		FALSE
2006	E	8	6	2.07	98.55	TW		FALSE
2006	E	8	7	3.29	98.68	EW		FALSE
2006	E	8	8	4.08	98.87	BIS		FALSE
2006	E	8	9	4.45	99.55	TOB		FALSE
2006	E	8	10	5.94	99.63	BIS		FALSE
2006	E	8	11	6.61	99.73	BOT X8R	Bot X8R reb/low	FALSE
2006	E	8	12	6.61	99.99	TOP X8R	Top X8R reb/low	FALSE
2006	E	9	1	0.00	100.00		Top X9L reb/low	FALSE
2006	E	9	2	0.00	99.35		Bot X9L reb/low	FALSE
2006	E	9	3	0.49	99.06	BIS		FALSE
2006	E	9	4	1.16	98.49	BIS		FALSE
2006	E	9	5	1.77	98.02	BF		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2006	E	9	6	2.96	97.69	EW		FALSE
2006	E	9	7	3.69	97.53	TW		FALSE
2006	E	9	8	4.75	97.70	EW		FALSE
2006	E	9	9	5.61	97.89	BIS		FALSE
2006	E	9	10	6.55	98.08	BIS		FALSE
2006	E	9	11	7.25	98.45	BIS		FALSE
2006	E	9	12	7.59	99.02	BIS		FALSE
2006	E	9	13	8.14	99.73	BOT X9R	Bot X9R reb/low	FALSE
2006	E	9	14	8.14	100.00	TOP X9R	Top X9R reb/low	FALSE
2006	E	10	1	0.00	100.00		Top X10L reb/low	FALSE
2006	E	10	2	0.00	99.57		Bot X10L reb/low	FALSE
2006	E	10	3	0.27	99.35	BIS		FALSE
2006	E	10	4	0.70	98.69	BIS		FALSE
2006	E	10	5	1.22	98.34	BIS		FALSE
2006	E	10	6	1.77	98.03	BIS		FALSE
2006	E	10	7	2.41	98.00	EW		FALSE
2006	E	10	8	3.11	97.91	TW		FALSE
2006	E	10	9	3.44	98.00	EW		FALSE
2006	E	10	10	4.15	98.33	BIS		FALSE
2006	E	10	11	4.97	98.50	BF		FALSE
2006	E	10	12	5.43	99.18	TOB		FALSE
2006	E	10	13	7.07	99.84	BOT X10R	Bot X10R reb/low	FALSE
2006	E	10	14	7.07	100.04	TOP X10R	Top X10R reb/low	FALSE
2006	F	1	1	0.00	100.00		Top X1L reb/low	FALSE
2006	F	1	1	0.70	99.32	BIS		FALSE
2006	F	1	2	0.00	99.95		Bot X1L reb/low	FALSE
2006	F	1	2	1.43	99.05	BIS		FALSE
2006	F	1	3	1.83	99.44	BIS	on top of large cobbles and fallen tree	FALSE
2006	F	1	4	2.56	98.89	BIS	on top of large cobbles	FALSE
2006	F	1	5	2.87	98.55	BF		FALSE
2006	F	1	6	3.41	98.34	BIS		FALSE
2006	F	1	7	4.72	98.14	BIS		FALSE
2006	F	1	8	5.46	98.26	BIS	on top of large cobbles	FALSE
2006	F	1	9	5.91	97.88	EW		FALSE
2006	F	1	10	6.00	97.89	TW		FALSE
2006	F	1	11	6.07	97.97	EW		FALSE
2006	F	1	12	6.52	98.09	BIS		FALSE
2006	F	1	13	7.32	98.27	BIS		FALSE
2006	F	1	14	8.11	98.62	BIS		FALSE
2006	F	1	15	8.66	99.22	BIS		FALSE
2006	F	2	3	0.00	100.00		Top X2L reb/low	FALSE
2006	F	2	4	0.00	99.88		Bot X2L reb/low	FALSE
2006	F	2	5	0.43	99.50	BIS		FALSE
2006	F	2	6	1.16	99.06	BIS		FALSE
2006	F	2	7	2.50	98.43	BIS		FALSE
2006	F	2	8	2.74	98.05	BIS		FALSE
2006	F	2	9	3.75	97.69	BIS		FALSE
2006	F	2	10	4.45	97.52	EW		FALSE
2006	F	2	11	4.88	97.39	TW		FALSE
2006	F	2	12	5.85	97.50	EW		FALSE
2006	F	2	13	6.58	97.67	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2006	F	2	14	7.41	98.09	BF		FALSE
2006	F	2	15	8.11	98.49	BIS		FALSE
2006	F	2	16	8.72	99.83	BOT X2R	Bot X2R reb/low	FALSE
2006	F	2	17	8.72	99.93	TOP X2R	Top X2R reb/low	FALSE
2006	F	3	1	0.00	100.00		Top X3L reb/low	FALSE
2006	F	3	2	0.00	99.82		Bot X3L reb/low	FALSE
2006	F	3	3	0.94	99.51	BIS	moved tripod; line of sight	FALSE
2006	F	3	4	1.40	98.61	BF		FALSE
2006	F	3	5	2.65	98.39	BIS		FALSE
2006	F	3	6	2.90	98.46	BIS	on top of large boulder	FALSE
2006	F	3	7	3.32	98.23	BIS		FALSE
2006	F	3	8	3.93	97.90	TW		FALSE
2006	F	3	9	4.60	98.03	EW	on top of boulder	FALSE
2006	F	3	10	4.85	98.20	BIS	on top of large boulder	FALSE
2006	F	3	11	5.49	98.08	BIS		FALSE
2006	F	3	12	6.31	98.67	BIS		FALSE
2006	F	3	13	6.80	98.68	BIS		FALSE
2006	F	3	14	7.28	99.73	BIS		FALSE
2006	F	3	15	7.74	100.05	BOT X3R	Bot X3R reb/low	FALSE
2006	F	3	16	7.74	100.10	TOP X3R	Top X3R reb/low	FALSE
2006	F	4	1	0.00	100.00		Top X4L reb/low	FALSE
2006	F	4	2	0.00	99.91		Bot X4L reb/low	FALSE
2006	F	4	3	2.74	97.81	BIS		FALSE
2006	F	4	4	3.66	97.65	EW		FALSE
2006	F	4	5	5.06	97.54	TW		FALSE
2006	F	4	6	6.07	97.65	EW		FALSE
2006	F	4	7	6.55	98.06	BF		FALSE
2006	F	4	8	7.77	99.60	BIS		FALSE
2006	F	4	9	8.78	99.95	BOT X4R	Bot X4R reb/low	FALSE
2006	F	4	10	8.78	100.15	TOP X4R	Top X4R reb/low	FALSE
2006	F	5	1	0.00	100.00		Top X5L reb/low	FALSE
2006	F	5	2	0.00	99.98		Bot X5L reb/low	FALSE
2006	F	5	3	1.19	99.00	BIS		FALSE
2006	F	5	4	2.23	98.68	BF	on top of boulder	FALSE
2006	F	5	5	2.38	98.53	BIS		FALSE
2006	F	5	6	3.72	98.37	EW		FALSE
2006	F	5	7	3.96	98.11	TW		FALSE
2006	F	5	8	4.66	98.37	EW		FALSE
2006	F	5	9	5.46	98.59	BIS		FALSE
2006	F	5	10	5.97	98.50	BIS		FALSE
2006	F	5	11	6.68	98.99	BF		FALSE
2006	F	5	12	7.68	99.82	BOT X5R	Bot X5R reb/low	FALSE
2006	F	5	13	7.68	99.90	TOP X5R	Top X5R reb/low	FALSE
2006	F	6	1	0.00	100.00		Top X6L reb/low	FALSE
2006	F	6	2	0.00	99.69		Bot X6L reb/low	FALSE
2006	F	6	3	1.13	99.13	BIS		FALSE
2006	F	6	4	1.86	98.30	EW		FALSE
2006	F	6	5	2.10	98.72	BIS	on top of log	FALSE
2006	F	6	6	2.99	98.27	BIS	sandbar/instream	FALSE
2006	F	6	7	3.78	98.30	BIS	sandbar/instream	FALSE
2006	F	6	8	4.42	98.23	TW		FALSE
2006	F	6	9	5.27	99.01	EW	on top of large boulder	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2006	F	6	10	6.55	99.18	BIS		FALSE
2006	F	6	11	7.89	99.53	BIS		FALSE
2006	F	6	12	8.41	99.86	BOT X6R	Bot X6R reb/low	FALSE
2006	F	6	13	8.41	99.97	TOP X6R	Top X6R reb/low	FALSE
2006	F	7	1	0.00	100.00		Bot X7L reb/low; rebar burried	FALSE
2006	F	7	2	0.00	100.00		Top X7L reb/low; rebar burried	FALSE
2006	F	7	3	0.85	99.04	BIS		FALSE
2006	F	7	4	2.04	98.39	EW		FALSE
2006	F	7	5	2.50	98.35	TW		FALSE
2006	F	7	6	3.51	98.42	EW		FALSE
2006	F	7	7	4.02	98.55	BIS		FALSE
2006	F	7	8	5.49	98.99	BF		FALSE
2006	F	7	9	8.69	99.83	BOT X7R	Bot X7R reb/low	FALSE
2006	F	7	10	8.69	99.92	TOP X7R	Top X7R reb/low	FALSE
2006	F	8	1	0.00	100.00		Top X8L reb/low	FALSE
2006	F	8	2	0.00	99.88		Bot X8L reb/low	FALSE
2006	F	8	3	0.82	99.18	BIS		FALSE
2006	F	8	4	1.10	98.58	BF		FALSE
2006	F	8	5	2.13	98.24	BIS	on top of boulder	FALSE
2006	F	8	6	2.53	97.90	BIS		FALSE
2006	F	8	7	3.32	97.79	EW		FALSE
2006	F	8	8	3.90	97.73	TW		FALSE
2006	F	8	9	4.36	97.80	EW		FALSE
2006	F	8	10	5.36	98.44	TOB		FALSE
2006	F	8	11	6.89	98.70	BIS		FALSE
2006	F	8	12	7.41	98.80	BIS		FALSE
2006	F	8	13	8.23	98.66	BIS		FALSE
2006	F	8	14	9.02	98.79	BIS		FALSE
2006	F	8	15	9.36	99.17	BIS	on top of large boulder	FALSE
2006	F	8	16	10.70	99.63	BIS		FALSE
2006	F	8	17	11.25	99.82	BIS		FALSE
2006	F	8	18	12.65	99.88	Bot X8R	Bot X8R reb/low	FALSE
2006	F	8	19	12.65	100.04	TOP X8R	Top X8R reb/low	FALSE
2006	F	9	1	0.00	100.00		Top X9L reb/low	FALSE
2006	F	9	2	0.00	99.82		Bot X9L reb/low	FALSE
2006	F	9	3	0.61	99.14	BF		FALSE
2006	F	9	4	2.19	98.49	EW		FALSE
2006	F	9	5	3.41	98.38	TW		FALSE
2006	F	9	6	3.87	98.41	EW	Root wad in way; not true EW; EW really +/- 1 ft. further on right bank	FALSE
2006	F	9	7	4.27	99.04	TOB		FALSE
2006	F	9	8	5.12	99.17	BIS		FALSE
2006	F	9	9	6.00	99.24	BIS		FALSE
2006	F	9	10	6.98	99.04	BIS		FALSE
2006	F	9	11	9.42	99.04	BIS		FALSE
2006	F	9	12	10.39	99.56	BIS		FALSE
2006	F	9	13	11.22	99.76	BOT X9R	Bot X9R reb/low	FALSE
2006	F	9	14	11.22	99.98	TOP X9R	Top X9R reb/low	FALSE
2006	F	10	1	0.00	100.00		Top X10L reb/low	FALSE
2006	F	10	2	0.00	99.80		Bot X10L reb/low	FALSE
2006	F	10	3	0.24	99.02	BF		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2006	F	10	4	1.40	98.41	EW		FALSE
2006	F	10	5	2.41	98.33	TW		FALSE
2006	F	10	6	2.77	98.40	EW		FALSE
2006	F	10	7	3.84	98.65	BIS		FALSE
2006	F	10	8	4.48	99.15	TOB		FALSE
2006	F	10	9	6.16	99.15	BIS		FALSE
2006	F	10	10	9.02	98.89	BIS		FALSE
2006	F	10	11	9.75	99.63	BOT X1R	Bot X10R reb/low	FALSE
2006	F	10	12	9.75	99.78	TOP X1R	Top X10R reb/low	FALSE
2007	A	1	1	0.00	100.00	TOP X1L	Top X1L reb/low	FALSE
2007	A	1	2	0.00	99.85	BOT X1L	Bot X1L reb/low	FALSE
2007	A	1	3	0.91	99.59	BIS		FALSE
2007	A	1	4	2.13	99.43	BIS		FALSE
2007	A	1	5	3.35	99.23	TOB		FALSE
2007	A	1	6	3.75	98.88	BF		FALSE
2007	A	1	7	3.99	98.74	EW		FALSE
2007	A	1	8	4.39	98.63	BIS		FALSE
2007	A	1	9	4.79	98.58	TW		FALSE
2007	A	1	10	5.36	98.68	BIS		FALSE
2007	A	1	11	5.70	98.74	EW		FALSE
2007	A	1	12	6.13	98.85	BF		FALSE
2007	A	1	13	7.16	99.38	TOB		FALSE
2007	A	1	14	8.29	99.54	BIS		FALSE
2007	A	1	15	9.11	99.76	BOT X1R	Bot X1R reb/low	FALSE
2007	A	1	16	9.11	99.99	TOP X1R	Top X1R reb/low	FALSE
2007	A	2	1	0.00	100.00	TOP X2L	Top X2L reb/low	FALSE
2007	A	2	2	0.00	99.68	BOT X2L	Bot X2L reb/low	FALSE
2007	A	2	3	1.28	99.43	BIS		FALSE
2007	A	2	4	2.01	99.00	BIS	30" dbh redwood fell perpendicular to stream and is suspended 15' above channel	FALSE
2007	A	2	5	3.35	98.66	BIS		FALSE
2007	A	2	6	3.99	98.34	BIS		FALSE
2007	A	2	7	4.33	98.24	BF		FALSE
2007	A	2	8	4.75	98.09	EW		FALSE
2007	A	2	9	5.18	98.00	TW		FALSE
2007	A	2	10	5.58	97.97	BIS		FALSE
2007	A	2	11	6.00	98.00	BIS		FALSE
2007	A	2	12	6.37	97.99	BIS	Edge of log in stream; water flowing under log	FALSE
2007	A	2	13	6.37	98.03	BIS	Top of log	FALSE
2007	A	2	14	7.80	98.47	TOB		FALSE
2007	A	2	15	8.29	98.70	BIS		FALSE
2007	A	2	16	8.56	99.10	BIS		FALSE
2007	A	2	17	9.30	98.87	BIS		FALSE
2007	A	2	18	10.00	99.38	BIS		FALSE
2007	A	2	19	10.73	99.65	BOT X2R	Bot X2R reb/low	FALSE
2007	A	2	20	10.73	99.95	TOP X2R	Top X2R reb/low	FALSE
2007	A	3	1	0.00	100.00	TOP X3L	Top X3L reb/low	FALSE
2007	A	3	2	0.00	99.49	BOT X3L	Bot X3L reb/low	FALSE
2007	A	3	3	0.30	99.89	BIS	On top of alder extending from bank to bank	TRUE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	A	3	4	0.82	99.80	BIS	On top of alder extending from bank to bank	TRUE
2007	A	3	5	0.91	98.87	BIS		FALSE
2007	A	3	6	1.31	98.81	TOB		FALSE
2007	A	3	7	1.46	98.22	BIS		FALSE
2007	A	3	8	1.83	98.30	BIS		FALSE
2007	A	3	9	2.38	97.88	EW		FALSE
2007	A	3	10	2.87	97.80	BIS		FALSE
2007	A	3	11	3.26	97.79	TX		FALSE
2007	A	3	12	4.11	97.88	EW		FALSE
2007	A	3	13	4.88	98.02	BF		FALSE
2007	A	3	14	5.64	98.38	BIS		FALSE
2007	A	3	15	6.80	98.54	BIS		FALSE
2007	A	3	16	7.99	98.80	BIS		FALSE
2007	A	3	17	8.90	99.11	BIS		FALSE
2007	A	3	18	9.88	99.63	BIS		FALSE
2007	A	3	19	10.70	99.99	BOT X3R	Bot X3R reb/low	FALSE
2007	A	3	20	10.70	100.40	TOP X3R	Top X3R reb/low	FALSE
2007	A	4	1	0.00	100.00	TOP X4L	Top X4L reb/low	FALSE
2007	A	4	2	0.00	99.71	BOT X4L	Bot X4L reb/low	FALSE
2007	A	4	3	0.85	99.60	BIS		FALSE
2007	A	4	4	1.71	99.40	BIS		FALSE
2007	A	4	5	2.50	99.17	TOB		FALSE
2007	A	4	6	2.74	98.86	BIS		FALSE
2007	A	4	7	3.05	98.63	BIS		FALSE
2007	A	4	8	3.26	98.76	BIS		TRUE
2007	A	4	9	3.41	98.58	EW		FALSE
2007	A	4	10	3.75	98.52	BIS		FALSE
2007	A	4	11	4.08	98.49	BIS		FALSE
2007	A	4	12	4.33	98.48	BIS		FALSE
2007	A	4	13	4.57	98.49	TW		FALSE
2007	A	4	14	4.88	98.57	BIS		FALSE
2007	A	4	15	5.06	98.56	BIS		FALSE
2007	A	4	16	5.15	98.49	BIS		FALSE
2007	A	4	17	5.52	98.51	BIS		FALSE
2007	A	4	18	5.52	98.54	EW		FALSE
2007	A	4	19	5.73	98.61	BIS		FALSE
2007	A	4	20	5.88	98.57	BIS		FALSE
2007	A	4	21	6.19	98.69	BF		FALSE
2007	A	4	22	6.92	98.99	BIS		FALSE
2007	A	4	23	7.59	99.11	BIS		FALSE
2007	A	4	24	7.83	99.26	BIS		FALSE
2007	A	4	25	8.66	99.45	BOT X4R	Bot X4R reb/low	FALSE
2007	A	4	26	8.66	99.84	TOPX4R	Top X4R reb/low	FALSE
2007	A	5	1	0.00	100.00	TOP X5L	Top X5L reb/low	FALSE
2007	A	5	2	0.00	99.72	BOT X5L	Bot X5L reb/low	FALSE
2007	A	5	3	0.61	99.84	BIS		FALSE
2007	A	5	4	1.22	99.77	TOB	log extending from TOB to water	TRUE
2007	A	5	5	1.62	99.59	BIS		FALSE
2007	A	5	6	2.35	99.03	BIS		FALSE
2007	A	5	7	2.47	98.99	BIS		FALSE
2007	A	5	8	2.50	98.82	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	A	5	9	2.99	98.75	BF		FALSE
2007	A	5	10	3.17	98.65	BIS		FALSE
2007	A	5	11	3.38	98.61	EW		FALSE
2007	A	5	12	3.93	98.46	TW		FALSE
2007	A	5	13	4.11	98.58	BIS		FALSE
2007	A	5	14	4.30	98.54	BIS		FALSE
2007	A	5	15	4.60	98.57	BIS		FALSE
2007	A	5	16	4.79	98.61	BIS		FALSE
2007	A	5	17	5.00	98.62	EW		FALSE
2007	A	5	18	5.15	98.99	BIS		FALSE
2007	A	5	19	5.52	98.86	BIS		FALSE
2007	A	5	20	5.67	98.83	BIS		FALSE
2007	A	5	21	5.76	99.06	TOB		FALSE
2007	A	5	22	6.34	99.17	BIS		FALSE
2007	A	5	23	6.95	99.36	BIS		FALSE
2007	A	5	24	7.32	99.59	BIS		FALSE
2007	A	5	25	7.92	99.65	BOT X5R	Bot X5R reb/low	FALSE
2007	A	5	26	7.92	99.98	TOP X5R	Top X5R reb/low	FALSE
2007	A	6	1	0.00	100.00	TOP X6L	Top X6L reb/low	FALSE
2007	A	6	2	0.00	99.48	BOT X6L	Bot X6L reb/low - TOB	FALSE
2007	A	6	3	0.52	98.78	BIS		FALSE
2007	A	6	4	0.91	98.53	BIS		FALSE
2007	A	6	5	1.34	98.24	BF		FALSE
2007	A	6	6	1.71	98.11	BIS		FALSE
2007	A	6	7	1.95	98.08	EW		FALSE
2007	A	6	8	2.47	97.94	BIS		FALSE
2007	A	6	9	2.87	97.98	BIS		FALSE
2007	A	6	10	3.02	98.04	BIS		FALSE
2007	A	6	11	3.29	97.99	BIS		FALSE
2007	A	6	12	3.54	98.01	TW		FALSE
2007	A	6	13	3.78	98.08	EW		FALSE
2007	A	6	14	4.30	98.37	BIS		FALSE
2007	A	6	15	4.39	98.75	TOB		FALSE
2007	A	6	16	4.97	98.99	BIS		FALSE
2007	A	6	17	5.79	99.13	BIS		FALSE
2007	A	6	18	7.32	99.33	BIS		FALSE
2007	A	6	19	9.69	99.26	BIS		FALSE
2007	A	6	20	11.37	99.28	BIS		FALSE
2007	A	6	21	12.34	99.20	BIS		FALSE
2007	A	6	22	13.29	99.23	BIS		FALSE
2007	A	6	23	14.51	99.24	BIS		FALSE
2007	A	6	24	14.94	99.54	BOT X6R	Bot X6R reb/low - 1' low adjusted	FALSE
2007	A	6	25	14.94	99.92	TOP X6R	Top X6R reb/low	FALSE
2007	A	7	1	0.00	100.00	TOP X7L	Top X7L reb/low	FALSE
2007	A	7	2	0.00	99.77	BOT X7L	Bot X7L reb/low	FALSE
2007	A	7	3	0.46	99.74	BIS		FALSE
2007	A	7	4	0.73	99.63	TOB		FALSE
2007	A	7	5	0.91	99.32	BIS		FALSE
2007	A	7	6	1.52	98.58	BIS		FALSE
2007	A	7	7	1.71	98.57	BIS		FALSE
2007	A	7	8	1.95	98.75	BIS	Top of boulder	FALSE
2007	A	7	9	2.38	98.64	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	A	7	10	2.59	98.23	BIS		FALSE
2007	A	7	11	2.77	98.18	BIS		FALSE
2007	A	7	12	3.14	98.24	BIS	Rock	FALSE
2007	A	7	13	3.23	98.20	BIS	Rock	FALSE
2007	A	7	14	3.41	98.24	BIS	Rock	FALSE
2007	A	7	15	3.57	98.17	EW		FALSE
2007	A	7	16	3.69	98.10	BIS		FALSE
2007	A	7	17	3.81	98.10	TW		FALSE
2007	A	7	18	4.02	98.14	EW		FALSE
2007	A	7	19	4.21	98.23	BIS		FALSE
2007	A	7	20	4.42	98.27	BIS		FALSE
2007	A	7	21	4.66	98.44	BIS		FALSE
2007	A	7	22	5.49	98.73	BIS		FALSE
2007	A	7	23	6.89	98.98	BIS		FALSE
2007	A	7	24	8.05	99.15	BIS		FALSE
2007	A	7	25	8.78	99.43	BIS		FALSE
2007	A	7	26	10.18	99.56	BIS		FALSE
2007	A	7	27	12.59	99.48	BIS		FALSE
2007	A	7	28	15.09	99.28	BIS		FALSE
2007	A	7	29	16.52	99.34	BIS		FALSE
2007	A	7	30	17.77	99.46	BIS		FALSE
2007	A	7	31	18.65	99.96	BOT X7R	Bot X7R reb/low	FALSE
2007	A	7	32	18.65	100.22	TOP X7R	Top X7R reb/low	FALSE
2007	A	8	1	0.00	100.00	TOP X8L	Top X8L reb/low	FALSE
2007	A	8	2	0.00	99.63	BOT X8L	Bot X8L reb/low	FALSE
2007	A	8	3	0.43	99.62	BIS		FALSE
2007	A	8	4	0.91	99.43	TOB		FALSE
2007	A	8	5	1.13	98.54	BIS		FALSE
2007	A	8	6	1.74	98.34	BIS		FALSE
2007	A	8	7	2.47	98.12	BF		FALSE
2007	A	8	8	2.99	98.01	BIS		FALSE
2007	A	8	9	3.23	97.89	EW		FALSE
2007	A	8	10	3.35	97.86	BIS		FALSE
2007	A	8	11	3.63	97.90	BIS		FALSE
2007	A	8	12	4.05	97.79	BIS		FALSE
2007	A	8	13	4.45	97.79	TW		FALSE
2007	A	8	14	4.88	97.82	BIS		FALSE
2007	A	8	15	5.15	97.85	BIS		FALSE
2007	A	8	16	5.61	97.88	EW		FALSE
2007	A	8	17	5.94	97.99	BIS		FALSE
2007	A	8	18	6.07	98.31	BIS		FALSE
2007	A	8	19	6.64	98.50	BIS		FALSE
2007	A	8	20	9.39	98.81	BIS		FALSE
2007	A	8	21	10.94	98.90	BIS		FALSE
2007	A	8	22	12.13	99.21	BIS		FALSE
2007	A	8	23	14.14	99.16	BIS		FALSE
2007	A	8	24	15.24	99.09	BIS		FALSE
2007	A	8	25	16.58	99.01	BIS		FALSE
2007	A	8	26	17.53	99.12	BIS		FALSE
2007	A	8	27	18.68	99.20	BIS		FALSE
2007	A	8	28	19.57	99.74	BOT X8R	Bot X8R reb/low	FALSE
2007	A	8	29	19.57	99.99	TOP X8R	Top X8R reb/low	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	A	9	1	0.00	100.00	TOP X9L	Top X9L reb/low	FALSE
2007	A	9	2	0.00	99.65	BOT X9L	Bot X9L reb/low	FALSE
2007	A	9	3	0.79	99.66	TOB		FALSE
2007	A	9	4	0.88	98.70	BIS		FALSE
2007	A	9	5	1.83	98.59	BIS		FALSE
2007	A	9	6	2.59	98.64	BIS		FALSE
2007	A	9	7	3.29	98.49	BIS		FALSE
2007	A	9	8	3.69	98.40	BF		FALSE
2007	A	9	9	4.30	98.21	BIS		FALSE
2007	A	9	10	4.69	98.13	EW		FALSE
2007	A	9	11	5.12	98.04	BIS		FALSE
2007	A	9	12	5.85	97.99	TW		FALSE
2007	A	9	13	6.22	98.06	BIS		FALSE
2007	A	9	14	6.52	98.07	BIS		FALSE
2007	A	9	15	6.64	98.13	EW		FALSE
2007	A	9	16	6.98	98.22	BIS		FALSE
2007	A	9	17	7.32	98.42	BF		FALSE
2007	A	9	18	7.92	98.53	BIS		FALSE
2007	A	9	19	8.38	98.77	TOB		FALSE
2007	A	9	20	10.06	98.96	BIS		FALSE
2007	A	9	21	12.04	98.98	BIS		FALSE
2007	A	9	22	12.62	99.13	BIS		FALSE
2007	A	9	23	13.02	99.39	BIS		FALSE
2007	A	9	24	14.08	99.46	BIS		FALSE
2007	A	9	25	15.06	99.35	BIS		FALSE
2007	A	9	26	17.07	99.22	BIS		FALSE
2007	A	9	27	19.54	99.43	BIS		FALSE
2007	A	9	28	20.54	99.92	BOT X9R	Bot X9R reb/low	FALSE
2007	A	9	29	20.54	100.25	TOP X9R	Top X9R reb/low	FALSE
2007	A	10	1	0.00	100.00	TOP X10L	Top X10L reb/low	FALSE
2007	A	10	2	0.00	99.58	BOT X10L	Bot X10L reb/low	FALSE
2007	A	10	3	0.49	99.55	TOB		FALSE
2007	A	10	4	0.55	98.58	BIS		FALSE
2007	A	10	5	1.52	98.58	BIS		FALSE
2007	A	10	6	2.38	98.52	BIS		FALSE
2007	A	10	7	2.96	98.36	BIS		FALSE
2007	A	10	8	3.81	98.34	BIS		FALSE
2007	A	10	9	3.87	98.22	BIS		FALSE
2007	A	10	10	4.54	98.29	BIS		FALSE
2007	A	10	11	4.88	98.17	BIS		FALSE
2007	A	10	12	5.36	98.31	BIS	Top of rock	FALSE
2007	A	10	13	5.76	98.22	BIS		FALSE
2007	A	10	14	5.79	97.86	EW		FALSE
2007	A	10	15	5.85	97.65	BIS	Top of rock	FALSE
2007	A	10	16	6.86	97.59	BIS		FALSE
2007	A	10	17	7.41	97.62	BIS	Top of rock	FALSE
2007	A	10	18	7.80	98.12	BIS		FALSE
2007	A	10	19	8.11	97.95	BIS		FALSE
2007	A	10	20	8.26	97.67	BIS		FALSE
2007	A	10	21	8.75	97.52	TW		FALSE
2007	A	10	22	8.99	97.65	BIS		FALSE
2007	A	10	23	9.08	97.86	EW	Top of boulder	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	A	10	24	9.48	98.25	BIS		FALSE
2007	A	10	25	10.09	98.22	BIS		FALSE
2007	A	10	26	10.70	98.68	TOB		FALSE
2007	A	10	27	12.31	98.93	BIS		FALSE
2007	A	10	28	15.24	99.03	BIS		FALSE
2007	A	10	29	17.01	99.00	BIS		FALSE
2007	A	10	30	18.81	99.26	BIS		FALSE
2007	A	10	31	20.27	99.85	BOT X9R	Bot X10L reb/low	FALSE
2007	A	10	32	20.27	100.01	TOP X9R	Top X10L reb/low	FALSE
2007	B	1	1	0.00	100.00	TOP X1L	Top X1L reb/low	FALSE
2007	B	1	2	0.00	99.86	BOT X1L	Bot X1L reb/low	FALSE
2007	B	1	3	0.34	99.67	BIS		FALSE
2007	B	1	4	0.43	99.25	BIS		FALSE
2007	B	1	5	0.79	98.94	BIS	Rock	FALSE
2007	B	1	6	0.88	98.55	BIS		FALSE
2007	B	1	7	1.25	98.32	BIS	Between 4.1 and 5.7 = Trail	FALSE
2007	B	1	8	1.74	98.17	BIS		FALSE
2007	B	1	9	2.41	97.77	BIS		FALSE
2007	B	1	10	2.80	97.61	EW		FALSE
2007	B	1	11	3.29	97.52	TW		FALSE
2007	B	1	12	3.87	97.59	BIS		FALSE
2007	B	1	13	4.21	97.55	BIS		FALSE
2007	B	1	14	4.57	97.66	BIS		FALSE
2007	B	1	15	4.94	97.58	BIS		FALSE
2007	B	1	16	5.49	97.60	EW		FALSE
2007	B	1	17	6.28	97.72	BF		FALSE
2007	B	1	18	7.01	97.85	BIS		FALSE
2007	B	1	19	7.56	98.14	BIS		FALSE
2007	B	1	20	8.23	98.55	BIS		FALSE
2007	B	1	21	8.69	98.93	BIS		FALSE
2007	B	1	22	10.09	99.50	BOT X1R	Bot X1R reb/low	FALSE
2007	B	1	23	10.09	99.99	TOP X1R	Top X1R reb/low	FALSE
2007	B	2	1	0.00	100.00	TOP X2L	Top X2L reb/low	FALSE
2007	B	2	2	0.00	99.61	BOT X2L	Bot X2L reb/low	FALSE
2007	B	2	3	0.18	99.51	BIS		FALSE
2007	B	2	4	0.40	99.06	BIS	Bwn 1.3 and 4.2 = Trail	FALSE
2007	B	2	5	1.28	98.75	BIS		FALSE
2007	B	2	6	2.07	98.24	BIS		FALSE
2007	B	2	7	2.47	98.11	TOB		FALSE
2007	B	2	8	2.90	97.60	BIS		FALSE
2007	B	2	9	3.38	97.44	EW		FALSE
2007	B	2	10	3.90	97.38	BIS		FALSE
2007	B	2	11	4.45	97.40	BIS		FALSE
2007	B	2	12	5.40	97.30	TW		FALSE
2007	B	2	13	6.22	97.40	EW		FALSE
2007	B	2	14	7.32	97.51	BF	Rock (original BS 13.88, graphed obviously wrong, likely mis-read Philly rod, adjusted 1 foot higher.)	FALSE
2007	B	2	15	7.53	97.86	BIS		TRUE
2007	B	2	16	8.50	97.99	BIS		FALSE
2007	B	2	17	9.63	98.82	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	B	2	18	10.21	99.34	BOT X2R	Bot X2R reb/low	FALSE
2007	B	2	19	10.21	99.73	TOP X2R	Top X2R reb/low	FALSE
2007	B	3	1	0.00	100.00	TOP X3L	Top X3L reb/low	FALSE
2007	B	3	2	0.00	99.46	BOT X3L	Bot X3L reb/low	FALSE
2007	B	3	3	0.40	99.23	BIS		FALSE
2007	B	3	4	0.98	98.95	BIS		FALSE
2007	B	3	5	1.49	98.49	BIS		FALSE
2007	B	3	6	2.50	98.10	BIS		FALSE
2007	B	3	7	2.62	98.27	BIS		FALSE
2007	B	3	8	3.38	98.29	BIS		FALSE
2007	B	3	9	4.08	98.03	EW		FALSE
2007	B	3	10	4.48	97.96	BIS		FALSE
2007	B	3	11	4.91	97.92	BIS		FALSE
2007	B	3	12	5.12	97.94	BIS		FALSE
2007	B	3	13	5.30	97.89	TW		FALSE
2007	B	3	14	5.88	98.16	BF		FALSE
2007	B	3	15	6.49	98.45	TOB		FALSE
2007	B	3	16	7.32	98.82	BIS		FALSE
2007	B	3	17	8.14	99.35	BIS		FALSE
2007	B	3	18	8.41	99.82	BOT X3R	Bot X3R reb/low	FALSE
2007	B	3	19	8.41	99.98	TOP X3R	Top X3R reb/low	FALSE
2007	B	4	1	0.00	100.00	TOP X4L	Top X4L reb/low	FALSE
2007	B	4	2	0.00	99.84	BOT X4L	Bot X4L reb/low	FALSE
2007	B	4	3	0.91	99.62	BIS		FALSE
2007	B	4	4	1.49	99.37	TOB		FALSE
2007	B	4	5	1.68	98.89	BIS		FALSE
2007	B	4	6	1.86	98.84	BIS		FALSE
2007	B	4	7	2.01	98.68	BIS	Puddle	FALSE
2007	B	4	8	2.47	98.63	BIS	Puddle	FALSE
2007	B	4	9	2.71	98.60	BIS	Puddle	FALSE
2007	B	4	10	3.38	98.84	BIS		FALSE
2007	B	4	11	3.96	98.91	BIS		FALSE
2007	B	4	12	4.08	98.63	BIS		FALSE
2007	B	4	13	4.33	98.55	BIS		FALSE
2007	B	4	14	4.66	98.57	EW		FALSE
2007	B	4	15	4.72	98.67	BIS		FALSE
2007	B	4	16	5.00	98.71	BIS		FALSE
2007	B	4	17	5.91	98.66	BIS	In water 0.4' deep	FALSE
2007	B	4	18	5.94	98.45	BIS		FALSE
2007	B	4	19	6.16	98.44	TW		FALSE
2007	B	4	20	6.49	98.58	EW		FALSE
2007	B	4	21	7.38	99.50	BOT X4R	Bot X4R reb/low	FALSE
2007	B	4	22	7.38	99.71	TOP X4R	Top X4R reb/low	FALSE
2007	B	5	1	0.00	100.00	TOP X5L	Top X5L reb/low	FALSE
2007	B	5	2	0.00	99.61	BOT X5L	Bot X5L reb/low	FALSE
2007	B	5	3	0.21	99.35	BIS		FALSE
2007	B	5	4	1.25	98.78	BIS		FALSE
2007	B	5	5	2.10	98.37	BIS		FALSE
2007	B	5	6	3.14	98.11	BIS		FALSE
2007	B	5	7	3.44	98.05	BF		FALSE
2007	B	5	8	3.93	97.98	EW		FALSE
2007	B	5	9	4.63	97.91	TW		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	B	5	10	5.12	97.93	BIS		FALSE
2007	B	5	11	5.73	97.93	BIS	Woody debris accumulation	FALSE
2007	B	5	12	6.25	98.05	EW		FALSE
2007	B	5	13	7.07	98.79	BIS		FALSE
2007	B	5	14	7.80	99.93	BOT X5R	Bot X5R reb/low	FALSE
2007	B	5	15	7.80	100.09	TOP X5R	Top X5R reb/low	FALSE
2007	B	6	1	0.00	100.00	TOP X6L	Top X6L reb/low	FALSE
2007	B	6	2	0.00	99.97	BOT X6L	Bot X6L reb/low	FALSE
2007	B	6	3	0.34	99.69	BIS		FALSE
2007	B	6	4	1.40	99.37	BIS		FALSE
2007	B	6	5	2.23	98.84	BIS		FALSE
2007	B	6	6	2.90	98.55	BIS		FALSE
2007	B	6	7	3.54	98.45	BF		FALSE
2007	B	6	8	3.69	98.33	EW		FALSE
2007	B	6	9	4.27	98.26	TW		FALSE
2007	B	6	10	4.66	98.27	BIS		FALSE
2007	B	6	11	5.18	98.36	EW		FALSE
2007	B	6	12	5.43	98.63	BIS	Top of rock	TRUE
2007	B	6	13	6.52	98.74	BIS		FALSE
2007	B	6	14	7.38	99.33	BIS		FALSE
2007	B	6	15	7.92	99.87	BOT X6R	Bot X6R reb/low	FALSE
2007	B	6	16	7.92	99.95	TOP X6R	Top X6R reb/low	FALSE
2007	B	7	1	0.00	100.00	TOP X6L	Top X7L reb/low	FALSE
2007	B	7	2	0.00	99.29	BOT X6L	Bot X7L reb/low	FALSE
2007	B	7	3	0.70	98.99	BIS		FALSE
2007	B	7	4	1.28	98.60	BIS		FALSE
2007	B	7	5	2.16	98.26	BIS		FALSE
2007	B	7	6	2.74	98.16	BF		FALSE
2007	B	7	7	3.02	98.11	BIS		FALSE
2007	B	7	8	3.35	98.21	BIS	Top of rock	FALSE
2007	B	7	9	3.63	98.08	EW		FALSE
2007	B	7	10	3.87	98.02	BIS		FALSE
2007	B	7	11	4.30	98.01	TX		FALSE
2007	B	7	12	4.60	98.02	BIS		FALSE
2007	B	7	13	5.21	98.04	BIS		FALSE
2007	B	7	14	5.73	98.09	EW		FALSE
2007	B	7	15	6.40	98.45	BIS		FALSE
2007	B	7	16	6.68	98.50	BIS		FALSE
2007	B	7	17	7.68	99.33	BIS		FALSE
2007	B	7	18	8.66	99.50	BIS		FALSE
2007	B	7	19	9.42	99.81	BOT X7R	Bot X7R reb/low	FALSE
2007	B	7	20	9.42	99.75	TOP X7R	Top X7R reb/low	FALSE
2007	B	8	1	0.00	100.00	TOP X8L	Top X8L reb/low	FALSE
2007	B	8	2	0.00	99.48	BOT X8L	Bot X8L reb/low	FALSE
2007	B	8	3	0.40	99.37	TOB	Alder log	FALSE
2007	B	8	4	0.46	98.99	BF		FALSE
2007	B	8	5	0.91	98.93	BIS		FALSE
2007	B	8	6	1.34	98.93	EW		FALSE
2007	B	8	7	1.86	98.87	BIS		FALSE
2007	B	8	8	2.32	98.81	BIS		FALSE
2007	B	8	9	2.93	98.85	EW	Real EW underneath log, this point on log	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	B	8	10	3.17	99.47	BIS	On log	FALSE
2007	B	8	11	3.54	99.63	BIS	On log	FALSE
2007	B	8	12	3.78	99.82	BIS	On log	FALSE
2007	B	8	13	4.21	99.66	BIS	On logm but different log	FALSE
2007	B	8	14	5.06	99.72	BOT X8R	Bot X8R reb/low	FALSE
2007	B	8	15	5.06	99.92	TOP X8R	Top X8R reb/low	FALSE
2007	B	9	1	0.00	100.00	TOP X9L	Top X9L reb/low	FALSE
2007	B	9	2	0.00	99.77	BOT X9L	Bot X9L reb/low	FALSE
2007	B	9	3	0.21	98.69	BIS		FALSE
2007	B	9	4	0.67	97.93	BIS		FALSE
2007	B	9	5	0.94	98.07	BIS		FALSE
2007	B	9	6	1.04	97.71	EW		FALSE
2007	B	9	7	1.43	97.73	BIS		FALSE
2007	B	9	8	2.35	97.69	TW		FALSE
2007	B	9	9	2.87	97.74	BIS		FALSE
2007	B	9	10	3.23	97.77	EW		FALSE
2007	B	9	11	3.87	98.09	TOB		FALSE
2007	B	9	12	4.63	98.47	BIS		FALSE
2007	B	9	13	6.55	98.68	BIS		FALSE
2007	B	9	14	7.53	98.97	BIS		FALSE
2007	B	9	15	8.87	98.93	BIS		FALSE
2007	B	9	16	10.12	98.88	BIS		FALSE
2007	B	9	17	11.98	99.57	BIS		FALSE
2007	B	9	18	13.53	100.08	BOT X9R	Bot X9R reb/low	FALSE
2007	B	9	19	13.53	100.43	TOP X9R	Top X9R reb/low	FALSE
2007	B	10	1	0.00	100.00	TOP X10L	Top X10L reb/low	FALSE
2007	B	10	2	0.00	99.69	BOT X10L	Bot X10L reb/low	FALSE
2007	B	10	3	0.15	99.54	BIS		FALSE
2007	B	10	4	0.27	98.86	BIS		FALSE
2007	B	10	5	0.61	98.46	BIS		FALSE
2007	B	10	6	0.67	97.16	TW	Undercut bank 8"	FALSE
2007	B	10	7	0.85	97.34	BIS		FALSE
2007	B	10	8	0.94	97.17	BIS		FALSE
2007	B	10	9	1.77	97.36	BIS		FALSE
2007	B	10	10	2.01	97.23	BIS		FALSE
2007	B	10	11	2.10	97.31	BIS		FALSE
2007	B	10	12	2.71	97.31	BIS		FALSE
2007	B	10	13	3.14	97.36	EW		FALSE
2007	B	10	14	3.35	97.48	BIS		FALSE
2007	B	10	15	3.51	97.39	BIS		FALSE
2007	B	10	16	3.72	97.39	BF		FALSE
2007	B	10	17	4.82	97.53	BIS		FALSE
2007	B	10	18	5.24	97.68	BIS		FALSE
2007	B	10	19	6.34	98.17	TOB		FALSE
2007	B	10	20	6.74	98.30	BIS		FALSE
2007	B	10	21	8.50	98.25	BIS		FALSE
2007	B	10	22	10.36	98.18	BIS		FALSE
2007	B	10	23	12.41	98.23	BIS		FALSE
2007	B	10	24	13.41	98.60	BIS		FALSE
2007	B	10	25	14.42	99.26	BIS		FALSE
2007	B	10	26	15.03	99.64	BIS		FALSE
2007	B	10	27	15.36	99.86	BOT X10R	Bot X10R reb/low	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	B	10	28	15.36	100.00	TOP X10R	Top X10R reb/low	FALSE
2007	C	1	1	0.00	100.00		Top X1L reb/low	FALSE
2007	C	1	2	0.00	99.48		Bot X1L reb/low	FALSE
2007	C	1	3	0.46	99.15	BIS		FALSE
2007	C	1	4	0.67	98.94	BIS		FALSE
2007	C	1	5	0.94	99.77		Suspended Alder log across channel	TRUE
2007	C	1	6	1.16	98.79	BIS		FALSE
2007	C	1	7	1.62	98.57	EW		FALSE
2007	C	1	8	2.32	98.53	TW		FALSE
2007	C	1	9	2.59	98.53	BIS		FALSE
2007	C	1	10	3.02	98.54	BIS		FALSE
2007	C	1	11	3.54	98.62	BIS		FALSE
2007	C	1	12	3.96	98.63	BIS		FALSE
2007	C	1	13	4.60	98.71	EW		FALSE
2007	C	1	14	5.24	98.76	BIS		FALSE
2007	C	1	15	5.61	98.83	BIS		FALSE
2007	C	1	16	5.97	98.97	BIS	Decaying log	TRUE
2007	C	1	17	6.25	98.87	BIS		FALSE
2007	C	1	18	6.58	98.98	BIS		FALSE
2007	C	1	19	7.38	99.07	BIS		FALSE
2007	C	1	20	7.74	99.15	BIS		FALSE
2007	C	1	21	8.47	99.38	BIS		FALSE
2007	C	1	22	9.63	99.21	BIS		FALSE
2007	C	1	23	10.36	99.16	BIS		FALSE
2007	C	1	24	10.88	99.29	BIS		FALSE
2007	C	1	25	11.22	99.47	BIS		FALSE
2007	C	1	26	11.58	99.53	BIS		FALSE
2007	C	1	27	11.77	99.77	BIS	Top of rock	TRUE
2007	C	1	28	11.95	99.68	BIS		FALSE
2007	C	1	29	12.28	99.92	BOT X1R	Bot X1R reb/low	FALSE
2007	C	1	30	12.28	100.27	TOP X1R	Top X1R reb/low	FALSE
2007	C	2	1	0.00	100.00	Top X2L	Top X2L reb/low	FALSE
2007	C	2	2	0.00	99.48	Bot X2L	Bot X2L reb/low	FALSE
2007	C	2	3	0.55	99.14	BIS	bot Log	FALSE
2007	C	2	4	0.67	99.33	BIS	Top of log	TRUE
2007	C	2	5	0.76	98.99	BIS	Bot log	FALSE
2007	C	2	6	2.07	98.91	BIS		FALSE
2007	C	2	7	2.68	98.73	TOB		FALSE
2007	C	2	8	3.32	98.58	BIS		FALSE
2007	C	2	9	4.05	98.44	EW		FALSE
2007	C	2	10	4.39	98.43	BIS	base of log	TRUE
2007	C	2	11	4.57	98.68	BIS	Top of log	TRUE
2007	C	2	12	5.00	98.45	BIS		TRUE
2007	C	2	13	5.40	98.01	BIS		FALSE
2007	C	2	14	5.64	97.96	BF		FALSE
2007	C	2	15	5.82	97.82	WEL		FALSE
2007	C	2	16	6.37	97.74	BIS		FALSE
2007	C	2	17	6.58	97.76	BIS		FALSE
2007	C	2	18	6.98	97.72	TH		FALSE
2007	C	2	19	7.53	97.81	BIS	Bar	FALSE
2007	C	2	20	7.92	97.82	BIS	Bar	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	C	2	21	8.96	97.80	WER		FALSE
2007	C	2	22	9.48	97.99	BIS	BF?	FALSE
2007	C	2	23	10.18	98.28	BIS		FALSE
2007	C	2	24	12.10	98.37	BOT X2R	Bot X2R reb/low	FALSE
2007	C	2	25	12.10	99.99	TOP X2R	Top X2R reb/low	FALSE
2007	C	3	1	0.00	100.00		Bot X3L reb/low	FALSE
2007	C	3	2	0.00	99.63		Top X3L reb/low	FALSE
2007	C	3	3	0.94	99.20	BIS		FALSE
2007	C	3	4	1.37	99.05	BIS		FALSE
2007	C	3	5	2.13	98.78	BIS		FALSE
2007	C	3	6	2.59	98.71	BIS		FALSE
2007	C	3	7	3.47	98.75	BIS		FALSE
2007	C	3	8	3.84	98.79	BIS		FALSE
2007	C	3	9	4.51	98.68	BIS		FALSE
2007	C	3	10	4.72	98.50	BIS		FALSE
2007	C	3	11	5.73	98.45	BIS		FALSE
2007	C	3	12	6.37	98.45	BIS		FALSE
2007	C	3	13	6.80	98.27	BIS		FALSE
2007	C	3	14	7.32	98.19	EW		FALSE
2007	C	3	15	8.29	98.09	BIS		FALSE
2007	C	3	16	8.38	98.27	BIS	top of rock	TRUE
2007	C	3	17	8.66	98.03	BIS		FALSE
2007	C	3	18	8.93	98.00	TW		FALSE
2007	C	3	19	9.45	98.06	BIS		FALSE
2007	C	3	20	9.81	98.11	EW		FALSE
2007	C	3	21	10.24	98.49	BIS		FALSE
2007	C	3	22	10.49	98.68	BIS		FALSE
2007	C	3	23	11.19	98.84	BIS		FALSE
2007	C	3	24	11.58	98.88	BIS		FALSE
2007	C	3	25	12.68	99.22	BIS		FALSE
2007	C	3	26	13.78	99.62	BIS		FALSE
2007	C	3	27	14.08	99.80	BOT X3R	Bot X3R reb/low	FALSE
2007	C	3	28	14.08	100.01	TOP X3R	Top X3R reb/low	FALSE
2007	C	4	1	0.00	100.00		Top X4L reb/low	FALSE
2007	C	4	2	0.00	99.74		Bot X4L reb/low	FALSE
2007	C	4	3	0.52	99.40	BIS		FALSE
2007	C	4	4	0.76	99.27	BIS	On roots	FALSE
2007	C	4	5	0.82	99.57	BIS	On rootwad	TRUE
2007	C	4	6	1.19	99.17	BIS	On rootwad	TRUE
2007	C	4	7	1.37	98.77	BIS		FALSE
2007	C	4	8	1.55	98.75	BIS	On roots	FALSE
2007	C	4	9	2.01	98.76	BIS	On roots	FALSE
2007	C	4	10	2.07	98.50	BIS		FALSE
2007	C	4	11	3.08	98.44	BIS		FALSE
2007	C	4	12	3.84	98.57	BIS		FALSE
2007	C	4	13	4.33	98.54	BIS		FALSE
2007	C	4	14	4.72	98.39	BIS		FALSE
2007	C	4	15	6.40	98.30	TOB		FALSE
2007	C	4	16	7.16	98.02	EW		FALSE
2007	C	4	17	7.77	97.92	TW		FALSE
2007	C	4	18	8.56	97.98	BIS		FALSE
2007	C	4	19	8.96	97.96	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	C	4	20	9.42	98.02	EW		FALSE
2007	C	4	21	9.81	98.17	BF		FALSE
2007	C	4	22	10.18	98.41	BIS		FALSE
2007	C	4	23	10.39	98.88	TOB		FALSE
2007	C	4	24	11.16	98.94	BIS		FALSE
2007	C	4	25	11.55	99.16	BIS		FALSE
2007	C	4	26	11.92	99.69	BOT X4R	Bot X4R reb/low	FALSE
2007	C	4	27	11.92	100.05	TOP X4R	Top X4R reb/low	FALSE
2007	C	5	1	0.00	100.00		Top X5L reb/low	FALSE
2007	C	5	2	0.00	99.56		Bot X5L reb/low	FALSE
2007	C	5	3	0.49	99.30	BIS		FALSE
2007	C	5	4	1.07	99.11	BIS		FALSE
2007	C	5	5	1.55	99.07	BIS		FALSE
2007	C	5	6	2.16	98.82	BIS		FALSE
2007	C	5	7	2.87	98.75	BIS		FALSE
2007	C	5	8	4.24	98.59	BIS		FALSE
2007	C	5	9	5.43	98.53	TOB		FALSE
2007	C	5	10	5.70	98.32	BF		FALSE
2007	C	5	11	6.40	98.09	BIS		FALSE
2007	C	5	12	6.71	98.09	EW		FALSE
2007	C	5	13	7.07	97.98	BIS		FALSE
2007	C	5	14	7.41	98.05	BIS	On rock	FALSE
2007	C	5	15	7.74	97.97	TW		FALSE
2007	C	5	16	8.11	98.02	BIS		FALSE
2007	C	5	17	8.23	98.09	EW	On rock	FALSE
2007	C	5	18	8.90	98.24	BIS		FALSE
2007	C	5	19	9.39	98.36	BIS		FALSE
2007	C	5	20	10.12	98.87	TOB		FALSE
2007	C	5	21	11.13	98.92	BIS		FALSE
2007	C	5	22	11.73	99.18	BIS		FALSE
2007	C	5	23	12.41	99.57	BOT X5R	Bot X5R reb/low	FALSE
2007	C	5	24	12.41	100.09	TOP X5R	Top X5R reb/low	FALSE
2007	C	6	1	0.00	100.00		Top X6L reb/low	FALSE
2007	C	6	2	0.00	99.73		Bot X6L reb/low	FALSE
2007	C	6	3	0.55	99.22	BIS		FALSE
2007	C	6	4	0.85	98.98	BIS		FALSE
2007	C	6	5	2.04	98.84	TOB		FALSE
2007	C	6	6	2.68	98.47	BIS		FALSE
2007	C	6	7	3.41	98.23	BIS		FALSE
2007	C	6	8	3.93	98.10	BF		FALSE
2007	C	6	9	4.24	97.99	BIS		FALSE
2007	C	6	10	5.64	97.94	EW		FALSE
2007	C	6	11	6.55	97.98	BIS		FALSE
2007	C	6	12	7.47	97.90	TW	Top of rock	FALSE
2007	C	6	13	7.96	97.93	BIS		FALSE
2007	C	6	14	8.23	98.04	EW	Tapr goes over alder trunk	FALSE
2007	C	6	15	8.63	98.09	BF		FALSE
2007	C	6	16	9.21	98.81	BIS		FALSE
2007	C	6	17	10.24	98.79	BIS	Pile of rocks	FALSE
2007	C	6	18	11.22	99.37	BIS	Pile of rocks	FALSE
2007	C	6	19	12.13	99.18	BIS	Pile of rocks	FALSE
2007	C	6	20	12.89	99.72	BOT X6R	Bot X6R reb/low	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	C	6	21	12.89	100.01	TOP X6R	Top X6R reb/low	FALSE
2007	C	7	1	0.00	100.00		Top X7L reb/low	FALSE
2007	C	7	2	0.00	99.77		Bot X7L reb/low	FALSE
2007	C	7	3	0.52	99.13	BIS		FALSE
2007	C	7	4	1.25	98.93	BIS		FALSE
2007	C	7	5	1.98	98.88	TOB		FALSE
2007	C	7	6	2.04	98.67	BIS		FALSE
2007	C	7	7	2.50	98.59	BIS		FALSE
2007	C	7	8	2.87	98.43	BIS		FALSE
2007	C	7	9	3.11	98.05	EW		FALSE
2007	C	7	10	3.23	97.91	TW		FALSE
2007	C	7	11	3.44	98.00	BIS		FALSE
2007	C	7	12	3.84	98.01	BIS		FALSE
2007	C	7	13	4.02	97.95	BIS		FALSE
2007	C	7	14	4.33	98.03	EW	Undercut bank; EW under bank	FALSE
2007	C	7	15	4.94	98.06	BIS		FALSE
2007	C	7	16	5.76	98.21	BIS		FALSE
2007	C	7	17	6.61	98.33	BIS		FALSE
2007	C	7	18	7.50	98.76	BIS		FALSE
2007	C	7	19	7.83	99.17	BIS		FALSE
2007	C	7	20	8.35	99.16	BIS		FALSE
2007	C	7	21	8.44	99.24	BIS	Log	FALSE
2007	C	7	22	8.66	99.02	BIS		FALSE
2007	C	7	23	9.57	98.88	BIS		FALSE
2007	C	7	24	10.18	99.05	BIS	log	TRUE
2007	C	7	25	10.49	99.27	BIS	log	TRUE
2007	C	7	26	10.61	98.83	BIS		FALSE
2007	C	7	27	11.19	98.77	BIS		FALSE
2007	C	7	28	12.19	99.10	BIS		FALSE
2007	C	7	29	12.80	99.35	BIS		FALSE
2007	C	7	30	13.35	99.85	BOT X7R	Bot X7R reb/low	FALSE
2007	C	7	31	13.35	100.04	TOP X7R	Top X7R reb/low	FALSE
2007	C	8	1	0.00	100.00		Top X8L reb/low	FALSE
2007	C	8	2	0.00	99.57		Bot X8L reb/low	FALSE
2007	C	8	3	0.40	98.82	BIS		FALSE
2007	C	8	4	0.46	98.41	BIS		FALSE
2007	C	8	5	0.61	98.34	TOB	Undercut bank	FALSE
2007	C	8	6	0.73	97.64	BIS		FALSE
2007	C	8	7	1.07	97.57	BIS		FALSE
2007	C	8	8	1.49	97.76	BIS		FALSE
2007	C	8	9	2.26	97.78	EW		FALSE
2007	C	8	10	2.99	97.67	EW		FALSE
2007	C	8	11	3.66	97.70	EW		FALSE
2007	C	8	12	3.93	97.79	EW		FALSE
2007	C	8	13	4.11	98.20	BIS		FALSE
2007	C	8	14	4.63	98.23	BIS		FALSE
2007	C	8	15	5.15	98.47	BIS		FALSE
2007	C	8	16	5.58	98.65	BIS		FALSE
2007	C	8	17	6.04	99.06	TOB		FALSE
2007	C	8	18	8.44	98.89	BIS		FALSE
2007	C	8	19	10.39	98.83	BIS		FALSE
2007	C	8	20	11.37	98.60	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	C	8	21	12.25	98.68	BIS		FALSE
2007	C	8	22	12.95	98.91	BIS		FALSE
2007	C	8	23	13.59	99.39	BIS		FALSE
2007	C	8	24	14.11	99.66	BOT X8R	Bot X8R reb/low	FALSE
2007	C	8	25	14.11	100.01	TOP X8R	Top X8R reb/low	FALSE
2007	C	9	1	0.00	100.00		Top X9L reb/low	FALSE
2007	C	9	2	0.00	99.55		Bot X9L reb/low	FALSE
2007	C	9	3	0.15	98.63	BIS		FALSE
2007	C	9	4	1.01	97.99	BIS		FALSE
2007	C	9	5	1.74	97.87	BIS		FALSE
2007	C	9	6	2.71	97.69	BIS		FALSE
2007	C	9	7	3.57	97.57	EW		FALSE
2007	C	9	8	3.81	97.45	BIS		FALSE
2007	C	9	9	4.11	97.49	BIS	On top of rock	FALSE
2007	C	9	10	4.39	97.41	TW		FALSE
2007	C	9	11	4.66	97.46	BIS		FALSE
2007	C	9	12	5.00	97.56	EW		FALSE
2007	C	9	13	5.27	97.60	BIS		FALSE
2007	C	9	14	5.52	97.84	BIS		FALSE
2007	C	9	15	6.46	98.58	TOB		FALSE
2007	C	9	16	7.19	98.81	BIS		FALSE
2007	C	9	17	8.87	98.74	BIS		FALSE
2007	C	9	18	11.28	98.63	BIS		FALSE
2007	C	9	19	13.41	98.52	BIS		FALSE
2007	C	9	20	14.60	98.74	BIS		FALSE
2007	C	9	21	15.61	98.94	BOT X9R	Bot X9R reb/low	FALSE
2007	C	9	22	15.61	99.51	TOP X9R	Top X9R reb/low	FALSE
2007	D	1	1	0.00	100.00	TOP REB	Top X1L reb/up	FALSE
2007	D	1	2	0.00	99.70	BOT REB	Bot X1L reb/up	FALSE
2007	D	1	3	0.82	99.19	BIS		FALSE
2007	D	1	4	1.62	98.85	BIS		FALSE
2007	D	1	5	2.35	98.55	BIS		FALSE
2007	D	1	6	2.56	98.82	BIS	on log	FALSE
2007	D	1	7	2.65	98.38	BIS		FALSE
2007	D	1	8	3.08	98.17	BIS		FALSE
2007	D	1	9	3.14	97.75	BIS	headcut on overflow channel	FALSE
2007	D	1	10	4.15	97.69	BIS		FALSE
2007	D	1	11	4.69	97.70	BIS		FALSE
2007	D	1	12	5.61	97.96	BIS		FALSE
2007	D	1	13	5.85	98.56	BIS		FALSE
2007	D	1	14	6.40	98.69	BIS		FALSE
2007	D	1	15	7.35	98.61	TBL		FALSE
2007	D	1	16	7.65	98.09	BIS		FALSE
2007	D	1	17	7.80	97.46	BIS		FALSE
2007	D	1	18	8.02	97.43	BIS		FALSE
2007	D	1	19	8.38	97.03	BIS		FALSE
2007	D	1	20	8.90	96.79	WEL		FALSE
2007	D	1	21	9.51	96.72	BIS		FALSE
2007	D	1	22	10.06	96.61	BIS		FALSE
2007	D	1	23	10.39	96.59	TW		FALSE
2007	D	1	24	10.64	96.77	BIS		FALSE
2007	D	1	25	11.03	96.60	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	D	1	26	11.09	96.61	BIS		FALSE
2007	D	1	27	11.83	97.17	BIS	WER under rock - point is top of rock	FALSE
2007	D	1	28	11.89	97.06	BIS		FALSE
2007	D	1	29	12.59	97.11	BIS		FALSE
2007	D	1	30	13.17	97.35	BIS		FALSE
2007	D	1	31	13.72	97.64	BIS		FALSE
2007	D	1	32	13.93	97.89	BIS		FALSE
2007	D	1	33	14.90	98.06	BIS		FALSE
2007	D	1	34	15.15	98.40	BIS		FALSE
2007	D	1	35	16.31	98.49	BIS		FALSE
2007	D	1	36	16.98	98.90	BIS		FALSE
2007	D	1	37	17.43	99.72	BIS		FALSE
2007	D	1	38	17.98	100.07	BOT REB	Bot X1R reb/up	FALSE
2007	D	1	39	17.98	100.42	TOP REB	Top X1R reb/up	FALSE
2007	D	2	1	0.00	100.00	TOP REB	Top X2L reb/low	FALSE
2007	D	2	2	0.00	99.73	BOT REB	Bot X2L reb/low	FALSE
2007	D	2	3	0.52	99.65	BIS		FALSE
2007	D	2	4	0.98	99.15	BIS		FALSE
2007	D	2	5	1.52	98.68	BIS		FALSE
2007	D	2	6	1.92	98.62	BIS		FALSE
2007	D	2	7	2.71	98.49	WEL		FALSE
2007	D	2	8	3.20	98.43	BIS		FALSE
2007	D	2	9	3.93	98.38	TW		FALSE
2007	D	2	10	4.24	98.47	BIS		FALSE
2007	D	2	11	4.48	98.43	WER		FALSE
2007	D	2	12	4.88	98.58	BIS		FALSE
2007	D	2	13	5.49	98.74	BIS		FALSE
2007	D	2	14	6.13	98.98	BIS		FALSE
2007	D	2	15	6.86	99.29	BIS		FALSE
2007	D	2	16	7.22	99.43	BIS		FALSE
2007	D	2	17	7.71	99.67	BIS		FALSE
2007	D	2	18	8.69	99.75	BIS		FALSE
2007	D	2	19	9.36	99.69	BOT REB	Bot X2R reb/low	FALSE
2007	D	2	20	9.36	99.80	TOP REB	Top X2R reb/low	FALSE
2007	D	3	1	0.00	100.00	TOP REB	Top X3L reb/low	FALSE
2007	D	3	2	0.00	99.81	BOT REB	Bot X3L reb/low	FALSE
2007	D	3	3	0.49	99.73	BIS		FALSE
2007	D	3	4	0.91	99.79	TBL		FALSE
2007	D	3	5	1.28	99.62	BIS		FALSE
2007	D	3	6	1.77	98.75	BIS		FALSE
2007	D	3	7	2.68	98.65	BIS		FALSE
2007	D	3	8	3.41	98.52	WEL		FALSE
2007	D	3	9	3.57	98.42	BIS		FALSE
2007	D	3	10	3.90	98.35	BIS		FALSE
2007	D	3	11	4.08	98.33	TW		FALSE
2007	D	3	12	4.45	98.51	WER		FALSE
2007	D	3	13	4.72	98.60	BIS		FALSE
2007	D	3	14	4.88	98.98	BIS		FALSE
2007	D	3	15	5.36	99.18	BIS		FALSE
2007	D	3	16	5.49	99.52	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	D	3	17	5.82	99.69	BIS	mid channel boulder/debris pile + alder	FALSE
2007	D	3	18	6.43	99.89	TBR		FALSE
2007	D	3	19	7.04	99.76	BIS		FALSE
2007	D	3	20	7.22	99.33	BIS		FALSE
2007	D	3	21	7.86	99.20	BIS		FALSE
2007	D	3	22	8.87	99.28	BIS		FALSE
2007	D	3	23	10.03	99.40	BIS		FALSE
2007	D	3	24	10.55	99.52	BIS		FALSE
2007	D	3	25	11.03	99.94	BOT REB	Bot X3R reb/low	FALSE
2007	D	3	26	11.03	100.00	TOP REB	Top X3R reb/low	FALSE
2007	D	4	1	0.00	100.00	TOP REB	Top X4L reb/up	FALSE
2007	D	4	2	0.00	99.17	BOT REB	Bot X4L reb/up	FALSE
2007	D	4	3	0.18	99.16	BIS	edge of stump	FALSE
2007	D	4	4	0.30	98.05	BIS		FALSE
2007	D	4	5	1.07	97.46	BIS		FALSE
2007	D	4	6	1.37	97.20	BIS	edge of rootwad	FALSE
2007	D	4	7	1.52	96.55	BIS		FALSE
2007	D	4	8	1.68	96.39	WEL	in water	FALSE
2007	D	4	9	1.80	96.38	BIS		FALSE
2007	D	4	10	2.19	96.28	TW		FALSE
2007	D	4	11	2.68	96.39	BIS		FALSE
2007	D	4	12	2.87	96.28	BIS		FALSE
2007	D	4	13	3.26	96.42	WER		FALSE
2007	D	4	14	3.84	96.68	BIS		FALSE
2007	D	4	15	4.54	96.91	BIS		FALSE
2007	D	4	16	5.91	97.22	BIS		FALSE
2007	D	4	17	7.07	97.16	BIS		FALSE
2007	D	4	18	7.83	97.26	BIS		FALSE
2007	D	4	19	8.63	97.31	BIS		FALSE
2007	D	4	20	9.21	97.85	BIS		FALSE
2007	D	4	21	10.03	98.09	BIS		FALSE
2007	D	4	22	11.19	98.11	BIS		FALSE
2007	D	4	23	12.38	98.97	BIS		FALSE
2007	D	4	24	12.98	99.80	BIS		FALSE
2007	D	4	25	13.50	100.15	BIS		FALSE
2007	D	4	26	13.81	100.41	BOT REB	Bot X4R reb/up	FALSE
2007	D	4	27	13.81	100.86	TOP REB	Top X4R reb/up	FALSE
2007	D	5	1	0.00	100.00	TOP REB	Top X5L reb/low	FALSE
2007	D	5	2	0.00	99.75	BOT REB	Bot X5L reb/low	FALSE
2007	D	5	3	0.30	99.67	BIS		FALSE
2007	D	5	4	0.64	99.32	BIS	root in bank	FALSE
2007	D	5	5	0.82	98.57	BIS	below root	FALSE
2007	D	5	6	1.83	98.39	BIS		FALSE
2007	D	5	7	3.14	98.25	BF		FALSE
2007	D	5	8	3.96	98.06	WEL		FALSE
2007	D	5	9	4.30	98.02	TW		FALSE
2007	D	5	10	4.85	98.12	WER		FALSE
2007	D	5	11	5.43	98.25	BIS		FALSE
2007	D	5	12	5.85	98.51	BIS		FALSE
2007	D	5	13	6.61	98.77	BIS		FALSE
2007	D	5	14	7.01	99.19	BIS	top of rock	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	D	5	15	7.25	99.00	BIS		FALSE
2007	D	5	16	7.86	99.13	BIS		FALSE
2007	D	5	17	8.14	99.64	BIS		FALSE
2007	D	5	18	9.45	99.86	BIS		FALSE
2007	D	5	19	10.06	99.77	BIS		FALSE
2007	D	5	20	10.85	99.76	BOT REB	Bot X5R reb/low	FALSE
2007	D	5	21	10.85	100.15	TOP REB	Top X5R reb/low	FALSE
2007	D	6	1	0.00	100.00	TOP REB	Top X6L reb/low	FALSE
2007	D	6	2	0.00	99.85	BOT REB	Bot X6L reb/low	FALSE
2007	D	6	3	0.73	99.60	TOB		FALSE
2007	D	6	4	0.98	98.63	BIS		FALSE
2007	D	6	5	1.46	98.18	BIS		FALSE
2007	D	6	6	2.77	98.03	BIS		FALSE
2007	D	6	7	3.44	97.60	BIS		FALSE
2007	D	6	8	3.75	97.56	WEL		FALSE
2007	D	6	9	4.18	97.46	TW		FALSE
2007	D	6	10	4.48	97.48	BIS		FALSE
2007	D	6	11	4.75	97.56	BIS		FALSE
2007	D	6	12	5.06	97.65	BIS		FALSE
2007	D	6	13	5.52	97.52	BIS		FALSE
2007	D	6	14	5.88	97.51	BIS		FALSE
2007	D	6	15	6.31	97.52	BIS		FALSE
2007	D	6	16	6.86	97.66	WER		FALSE
2007	D	6	17	7.13	98.03	BIS		FALSE
2007	D	6	18	8.44	99.34	TOB		FALSE
2007	D	6	19	9.30	99.42	BIS		FALSE
2007	D	6	20	9.94	99.67	BOT REB	Bot X6R reb/low	FALSE
2007	D	6	21	9.94	100.02	TOP REB	Top X6R reb/low	FALSE
2007	D	7	1	0.00	100.00		Top X7L reb/low	FALSE
2007	D	7	2	0.00	99.78		Bot X7L reb/low	FALSE
2007	D	7	3	0.27	99.57	BIS		FALSE
2007	D	7	4	0.37	99.07	BIS		FALSE
2007	D	7	5	0.82	99.72	BIS	Top of log parallel to stream	TRUE
2007	D	7	6	1.13	98.52	BIS	embedded in right bank	FALSE
2007	D	7	7	1.83	98.36	BIS		FALSE
2007	D	7	8	2.50	97.94	BIS		FALSE
2007	D	7	9	3.11	97.81	WEL		FALSE
2007	D	7	10	3.51	97.69	BIS		FALSE
2007	D	7	11	3.81	97.67	TW		FALSE
2007	D	7	12	4.27	97.83	WER		FALSE
2007	D	7	13	5.09	97.94	BIS		FALSE
2007	D	7	14	5.64	98.11	BIS		FALSE
2007	D	7	15	6.04	98.10	BIS		FALSE
2007	D	7	16	6.40	98.85	BIS		FALSE
2007	D	7	17	6.98	99.32	BIS		FALSE
2007	D	7	18	7.65	99.76	BOT X7R	Bot X7R reb/low	FALSE
2007	D	7	19	7.65	99.97	TOP X7R	Top X7R reb/low	FALSE
2007	D	8	1	0.00	100.00		Top X8L reb/low	FALSE
2007	D	8	2	0.00	99.74		Bot X8L reb/low	FALSE
2007	D	8	3	0.61	99.41	BIS		FALSE
2007	D	8	4	1.19	98.52	BIS		FALSE
2007	D	8	5	1.40	98.16	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	D	8	6	2.13	97.82	WEL		FALSE
2007	D	8	7	2.53	97.78	BIS		FALSE
2007	D	8	8	2.87	97.79	BIS		FALSE
2007	D	8	9	3.05	97.92	BIS		FALSE
2007	D	8	10	3.26	97.73	TW		FALSE
2007	D	8	11	3.54	97.85	BIS		FALSE
2007	D	8	12	3.75	97.78	WER		FALSE
2007	D	8	13	4.45	97.93	BF?		FALSE
2007	D	8	14	5.00	98.02	BIS		FALSE
2007	D	8	15	5.21	98.15	BIS		FALSE
2007	D	8	16	5.67	98.23	BIS		FALSE
2007	D	8	17	5.97	98.50	BIS		FALSE
2007	D	8	18	6.19	98.70	BIS		FALSE
2007	D	8	19	6.52	99.72	TOB		FALSE
2007	D	8	20	6.83	99.79	BOT X8R	Bot X8R reb/low	FALSE
2007	D	8	21	6.83	100.02	TOP X8R	Top X8R reb/low	FALSE
2007	D	9	1	0.00	100.00		Top X9L reb/low	FALSE
2007	D	9	2	0.00	99.55		Bot X9L reb/low	FALSE
2007	D	9	3	0.49	98.91	BIS		FALSE
2007	D	9	4	1.07	98.66	BIS		FALSE
2007	D	9	5	2.13	98.63	BF		FALSE
2007	D	9	6	2.65	98.60	BIS		FALSE
2007	D	9	7	2.90	98.49	WEL		FALSE
2007	D	9	8	3.20	98.37	TW		FALSE
2007	D	9	9	3.54	98.37	BIS		FALSE
2007	D	9	10	3.81	98.48	WER		FALSE
2007	D	9	11	4.18	98.57	BIS		FALSE
2007	D	9	12	4.63	98.71	BIS		FALSE
2007	D	9	13	4.85	98.88	BIS		FALSE
2007	D	9	14	5.79	98.99	BIS		FALSE
2007	D	9	15	6.68	99.06	BIS		FALSE
2007	D	9	16	7.22	99.50		Bot X9R reb/low	FALSE
2007	D	9	17	7.22	99.98		Top X9R reb/low	FALSE
2007	D	10	1	0.00	100.00		Top X10L reb/low	FALSE
2007	D	10	2	0.00	99.67		Bot X10L reb/low	FALSE
2007	D	10	3	0.43	99.16	BIS		FALSE
2007	D	10	4	1.04	98.95	BIS		FALSE
2007	D	10	5	1.55	98.50	BIS		FALSE
2007	D	10	6	2.23	98.35	BF		FALSE
2007	D	10	7	2.74	98.23	WEL		FALSE
2007	D	10	8	3.08	98.15	BIS		FALSE
2007	D	10	9	3.63	98.17	BIS		FALSE
2007	D	10	10	4.05	98.16	TW		FALSE
2007	D	10	11	4.57	98.19	BIS		FALSE
2007	D	10	12	4.82	98.21	WER		FALSE
2007	D	10	13	5.09	98.49	BIS	Top of rock	TRUE
2007	D	10	14	5.27	98.29	BIS		FALSE
2007	D	10	15	5.64	98.52	BIS	Top of rock	FALSE
2007	D	10	16	5.97	98.40	BIS		FALSE
2007	D	10	17	6.52	98.58	BIS		FALSE
2007	D	10	18	6.83	98.93	BIS		FALSE
2007	D	10	19	7.32	99.78	BOT X10R	Bot X10R reb/low	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	D	10	20	7.32	100.00	TOP X10R	Top X10R reb/low	FALSE
2007	E	1	1	0.00	100.00	TOP REB	Top X1L reb/low	FALSE
2007	E	1	2	0.00	99.62	BOT REB	Bot X1L reb/low	FALSE
2007	E	1	3	0.27	99.56	BIS		FALSE
2007	E	1	4	0.79	99.23	BIS		FALSE
2007	E	1	5	1.92	98.88	BIS		FALSE
2007	E	1	6	2.44	98.85	BIS		FALSE
2007	E	1	7	3.08	98.85	BIS		FALSE
2007	E	1	8	3.96	98.68	BIS		FALSE
2007	E	1	9	4.42	98.62	BIS		FALSE
2007	E	1	10	4.51	98.49	BIS		FALSE
2007	E	1	11	5.12	98.39	BIS		FALSE
2007	E	1	12	5.58	98.29	BF		FALSE
2007	E	1	13	5.88	98.23	WEL		FALSE
2007	E	1	14	6.00	98.31	BIS	On rock	FALSE
2007	E	1	15	6.19	98.02	BIS	In water, EW underneath rock	FALSE
2007	E	1	16	6.34	98.10	TW		FALSE
2007	E	1	17	6.55	98.11	BIS		FALSE
2007	E	1	18	6.68	98.16	WER		FALSE
2007	E	1	19	6.77	98.10	BIS		FALSE
2007	E	1	20	6.98	98.12	BIS	Bank undercut; EW	FALSE
2007	E	1	21	7.04	99.48	TOB		FALSE
2007	E	1	22	7.25	99.68	BIS		FALSE
2007	E	1	23	7.50	99.82	BOT REB	Bot X1R reb/low	FALSE
2007	E	1	24	7.50	99.88	TOP REB	Top X1R reb/low	FALSE
2007	E	2	1	0.00	100.00	TOP REB	Top X2L reb/low	FALSE
2007	E	2	2	0.00	99.44	BOT REB	Bot X2L reb/low	FALSE
2007	E	2	3	0.24	99.22	BIS		FALSE
2007	E	2	4	0.64	98.98	BIS		FALSE
2007	E	2	5	0.91	98.64	BIS		FALSE
2007	E	2	6	1.07	98.55	BIS		FALSE
2007	E	2	7	1.22	98.48	BIS		FALSE
2007	E	2	8	1.65	98.43	BIS		FALSE
2007	E	2	9	2.01	98.52	BIS	On rock	FALSE
2007	E	2	10	2.04	98.33	EW		FALSE
2007	E	2	11	2.16	98.43	BIS		FALSE
2007	E	2	12	2.77	98.26	TW		FALSE
2007	E	2	13	3.17	98.36	WER		FALSE
2007	E	2	14	3.57	98.48	BIS		FALSE
2007	E	2	15	3.84	98.60	BIS		FALSE
2007	E	2	16	4.21	98.67	BIS		FALSE
2007	E	2	17	4.48	98.95	BIS		FALSE
2007	E	2	18	4.75	99.12	BIS		FALSE
2007	E	2	19	4.82	99.33	BIS		FALSE
2007	E	2	20	5.52	99.44	BIS		FALSE
2007	E	2	21	5.64	99.58	BIS		FALSE
2007	E	2	22	5.85	99.60	BOT REB	Bot X2R reb/low	FALSE
2007	E	2	23	5.85	100.01	TOP REB	Top X2R reb/low	FALSE
2007	E	3	1	0.00	100.00	TOP REB	Top X3L reb/low	FALSE
2007	E	3	2	0.00	99.52	BOT REB	Bot X3L reb/low	FALSE
2007	E	3	3	0.24	99.37	BIS		FALSE
2007	E	3	4	0.61	98.98	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	E	3	5	1.22	98.60	BIS		FALSE
2007	E	3	6	1.74	98.38	TOB		FALSE
2007	E	3	7	1.92	98.00	BIS		FALSE
2007	E	3	8	2.29	97.96	BIS		FALSE
2007	E	3	9	2.71	98.15	BIS	On rock	FALSE
2007	E	3	10	2.93	98.13	BIS	On rock	FALSE
2007	E	3	11	3.11	97.85	BIS		FALSE
2007	E	3	12	3.32	97.86	BIS		FALSE
2007	E	3	13	3.38	97.78	In water		FALSE
2007	E	3	14	3.54	97.75	TW		FALSE
2007	E	3	15	3.81	97.84	WER		FALSE
2007	E	3	16	4.05	98.24	BIS	On rock	FALSE
2007	E	3	17	4.18	98.19	BIS	On rock	FALSE
2007	E	3	18	4.54	98.23	BIS		FALSE
2007	E	3	19	4.97	98.51	BIS	On rock	FALSE
2007	E	3	20	5.30	98.47	BIS		FALSE
2007	E	3	21	5.43	98.88	TOB		FALSE
2007	E	3	22	6.00	99.06	BIS		FALSE
2007	E	3	23	6.46	99.16	BIS		FALSE
2007	E	3	24	7.16	99.40	BIS		FALSE
2007	E	3	25	7.25	99.44	BOT REB	Bot X3R reb/low	FALSE
2007	E	3	26	7.25	100.01	TOP REB	Top X3R reb/low	FALSE
2007	E	4	1	0.00	100.00	TOP REB	Top X4L reb/low	FALSE
2007	E	4	2	0.00	99.66	BOT REB	Bot X4L reb/low	FALSE
2007	E	4	3	0.18	99.49	BIS		FALSE
2007	E	4	4	0.55	99.41	TOB		FALSE
2007	E	4	5	0.58	99.13	BIS		FALSE
2007	E	4	6	0.91	99.03	BIS		FALSE
2007	E	4	7	1.19	98.80	BIS		FALSE
2007	E	4	8	1.25	98.92	WEL	On rock	FALSE
2007	E	4	9	1.62	98.95	BIS		FALSE
2007	E	4	10	1.77	98.77	BIS		FALSE
2007	E	4	11	1.89	98.66	WEL		FALSE
2007	E	4	12	2.26	98.60	BIS		FALSE
2007	E	4	13	2.41	98.64	BIS		FALSE
2007	E	4	14	2.74	98.62	BIS		FALSE
2007	E	4	15	2.93	98.58	TW		FALSE
2007	E	4	16	3.05	98.56	BIS		FALSE
2007	E	4	17	3.11	98.64	WER		FALSE
2007	E	4	18	3.54	98.82	BIS	Top of rock	FALSE
2007	E	4	19	3.96	98.51	BIS		FALSE
2007	E	4	20	4.30	98.76	BIS	Top of rock	FALSE
2007	E	4	21	4.51	98.62	BIS		FALSE
2007	E	4	22	4.82	98.59	BIS		FALSE
2007	E	4	23	5.03	98.87	BIS		FALSE
2007	E	4	24	5.15	98.75	BIS		FALSE
2007	E	4	25	5.64	98.77	BIS	Undercut bank - edge	FALSE
2007	E	4	26	5.82	99.46	TOB		FALSE
2007	E	4	27	6.34	99.58	BIS		FALSE
2007	E	4	28	7.01	99.65	BIS		FALSE
2007	E	4	29	7.62	99.80	BOT REB	Bot X4R reb/low	FALSE
2007	E	4	30	7.62	99.73	TOP REB	Top X4R reb/low	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	E	5	1	0.00	100.00	TOP REB	Top X5L reb/low	FALSE
2007	E	5	2	0.00	99.99	BOT REB	Bot X5L reb/low	FALSE
2007	E	5	3	0.43	99.92	BIS		FALSE
2007	E	5	4	0.91	99.76	TOB		FALSE
2007	E	5	5	1.25	99.51	BIS		FALSE
2007	E	5	6	1.55	99.21	BIS		FALSE
2007	E	5	7	2.04	99.30	BIS		FALSE
2007	E	5	8	2.13	99.18	BIS		FALSE
2007	E	5	9	2.47	99.30	BIS		FALSE
2007	E	5	10	2.56	99.03	BIS		FALSE
2007	E	5	11	2.71	99.01	WEL		FALSE
2007	E	5	12	2.80	98.97	BIS		FALSE
2007	E	5	13	3.05	98.94	TW		FALSE
2007	E	5	14	3.32	99.01	BIS		FALSE
2007	E	5	15	3.57	98.97	BIS		FALSE
2007	E	5	16	3.75	99.04	BIS		FALSE
2007	E	5	17	3.87	99.01	WER		FALSE
2007	E	5	18	4.27	99.07	BIS		FALSE
2007	E	5	19	4.42	99.31	BIS		FALSE
2007	E	5	20	4.63	99.29	BIS		FALSE
2007	E	5	21	4.66	99.42	BIS		FALSE
2007	E	5	22	4.94	99.53	BIS		FALSE
2007	E	5	23	5.36	99.61	BIS		FALSE
2007	E	5	24	5.36	99.99	BIS		FALSE
2007	E	5	25	5.76	100.09	BIS		FALSE
2007	E	5	26	6.80	100.20	BIS		FALSE
2007	E	5	27	7.86	100.20	BOT REB	Bot X5R reb/low	FALSE
2007	E	5	28	7.86	100.61	TOP REB	Top X5R reb/low	FALSE
2007	E	6	1	0.00	100.00	TOP REB	Top X6L reb/low - rebar diagonal 75 degrees from horiz towards stream	FALSE
2007	E	6	2	0.00	99.54	BOT REB	Bot X6L reb/low	FALSE
2007	E	6	3	0.24	99.38	TOB		FALSE
2007	E	6	4	0.58	98.77	BIS		FALSE
2007	E	6	5	0.79	98.67	BIS		FALSE
2007	E	6	6	1.04	98.68	BIS		FALSE
2007	E	6	7	1.13	98.36	WEL		FALSE
2007	E	6	8	1.40	98.31	BIS		FALSE
2007	E	6	9	1.58	98.40	BIS	ON ROCK	FALSE
2007	E	6	10	1.80	98.28	TW		FALSE
2007	E	6	11	1.92	98.37	WER		FALSE
2007	E	6	12	2.07	98.40	BIS		FALSE
2007	E	6	13	2.16	98.38	BIS	SAND	FALSE
2007	E	6	14	2.47	98.41	BIS	SAND	FALSE
2007	E	6	15	2.93	98.51	BIS	SAND	FALSE
2007	E	6	16	3.26	98.55	BIS		FALSE
2007	E	6	17	3.29	98.76	BIS	ON ROCK	FALSE
2007	E	6	18	3.57	98.85	BIS	ON ROCK	FALSE
2007	E	6	19	3.84	98.66	BIS		FALSE
2007	E	6	20	4.24	98.66	BIS		FALSE
2007	E	6	21	4.48	98.90	BIS		FALSE
2007	E	6	22	4.63	99.46	TOB		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	E	6	23	5.00	99.58	BIS		FALSE
2007	E	6	24	5.33	99.64	BOT REB	Bot X6R reb/low	FALSE
2007	E	6	25	5.33	100.00	TOP REB	Top X6R reb/low	FALSE
2007	E	7	1	0.00	100.00	TOP REB	Bot X7L reb/low	FALSE
2007	E	7	2	0.00	99.75	BOT REB	Top X7L reb/low	FALSE
2007	E	7	3	0.43	99.57	BIS		FALSE
2007	E	7	4	0.82	99.38	TOB		FALSE
2007	E	7	5	1.01	98.91	BIS		FALSE
2007	E	7	6	1.19	98.94	BIS		FALSE
2007	E	7	7	1.28	98.70	BIS		FALSE
2007	E	7	8	1.46	98.69	BIS		FALSE
2007	E	7	9	1.49	98.43	IN WATER		FALSE
2007	E	7	10	1.77	98.49	BIS		FALSE
2007	E	7	11	1.83	98.82	BIS		FALSE
2007	E	7	12	1.98	98.39	BIS	POOL	FALSE
2007	E	7	13	2.13	98.38	BIS		FALSE
2007	E	7	14	2.26	98.59	WATER LEVEL	ON ROCK	FALSE
2007	E	7	15	2.44	98.66	BIS	ON ROCK	FALSE
2007	E	7	16	2.74	98.66	BIS	ON ROCK	FALSE
2007	E	7	17	2.77	98.53	BIS		FALSE
2007	E	7	18	3.14	98.49	TW		FALSE
2007	E	7	19	3.47	98.50	BIS		FALSE
2007	E	7	20	3.72	98.58	WER		FALSE
2007	E	7	21	3.90	98.68	BIS		FALSE
2007	E	7	22	4.15	98.71	BF		FALSE
2007	E	7	23	4.27	98.84	BIS		FALSE
2007	E	7	24	4.54	98.99	BIS	BOTTOM OF MINOR UNDER- CUT BANK	FALSE
2007	E	7	25	4.57	99.55	BIS		FALSE
2007	E	7	26	4.72	99.63	BIS		FALSE
2007	E	7	27	5.00	99.78	BIS		FALSE
2007	E	7	28	5.24	99.84	BIS		FALSE
2007	E	7	29	5.49	99.70	BIS		FALSE
2007	E	7	30	5.94	99.67	BIS		FALSE
2007	E	7	31	6.49	99.71	TOP REB	Bot X7R reb/low	FALSE
2007	E	7	32	6.49	100.00	BOT REB	Top X7R reb/low	FALSE
2007	E	8	1	0.00	100.00	TOP REB	Bot X8L reb/low	FALSE
2007	E	8	2	0.00	99.63	BOT REB	Top X8L reb/low	FALSE
2007	E	8	3	0.34	99.45	BIS	1' high, corrected	FALSE
2007	E	8	4	0.64	99.23	BIS		FALSE
2007	E	8	5	0.79	99.11	BIS		FALSE
2007	E	8	6	0.94	98.81	BF?		FALSE
2007	E	8	7	1.34	98.63	WEL		FALSE
2007	E	8	8	1.58	98.63	BIS		FALSE
2007	E	8	9	1.80	98.65	BIS	ROCK	FALSE
2007	E	8	10	1.80	98.59	BIS	ROCK	FALSE
2007	E	8	11	2.01	98.57	TW		FALSE
2007	E	8	12	2.32	98.58	BIS		FALSE
2007	E	8	13	2.53	98.59	BIS		FALSE
2007	E	8	14	2.65	98.56	BIS		FALSE
2007	E	8	15	2.93	98.60	WER		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	E	8	16	3.20	98.77	BIS	ROCK	FALSE
2007	E	8	17	3.35	98.66	BIS		FALSE
2007	E	8	18	3.66	98.74	BIS		FALSE
2007	E	8	19	4.05	98.99	BIS		FALSE
2007	E	8	20	4.08	99.29	BIS		FALSE
2007	E	8	21	4.48	99.55	BIS		FALSE
2007	E	8	22	5.46	99.65	BIS		FALSE
2007	E	8	23	5.82	99.63	BIS		FALSE
2007	E	8	24	6.34	99.75	BIS		FALSE
2007	E	8	25	6.61	99.74	BOT REB	Bot X8R reb/low	FALSE
2007	E	8	26	6.61	99.99	TOP REB	Top X8R reb/low	FALSE
2007	E	9	1	0.00	100.00	TOP REB	Top X9L reb/low	FALSE
2007	E	9	2	0.00	99.55	BOT REB	Bot X9L reb/low	FALSE
2007	E	9	3	0.55	99.09			FALSE
2007	E	9	4	0.82	98.93			FALSE
2007	E	9	5	1.07	98.57			FALSE
2007	E	9	6	1.34	98.43			FALSE
2007	E	9	7	1.68	98.08			FALSE
2007	E	9	8	2.56	97.60			FALSE
2007	E	9	9	2.74	97.81			FALSE
2007	E	9	10	3.14	97.79			FALSE
2007	E	9	11	3.41	97.73			FALSE
2007	E	9	12	3.66	97.69			FALSE
2007	E	9	13	3.84	97.66			FALSE
2007	E	9	14	4.24	97.67			FALSE
2007	E	9	15	4.54	97.72			FALSE
2007	E	9	16	4.94	97.85			FALSE
2007	E	9	17	5.33	97.92			FALSE
2007	E	9	18	5.85	97.97			FALSE
2007	E	9	19	6.55	98.11			FALSE
2007	E	9	20	7.19	98.52			FALSE
2007	E	9	21	7.35	99.06			FALSE
2007	E	9	22	7.71	99.13			FALSE
2007	E	9	23	7.89	99.61			FALSE
2007	E	9	24	8.14	99.77	BOT REB	Bot X9R reb/low	FALSE
2007	E	9	25	8.14	100.05	TOP REB	Top X9R reb/low	FALSE
2007	E	10	1	0.00	100.00	TOP REB	Bot X10L reb/low	FALSE
2007	E	10	2	0.00	99.69	BOT REB	Top X10L reb/low	FALSE
2007	E	10	3	0.27	99.46	BIS		FALSE
2007	E	10	4	0.49	99.33	BIS		FALSE
2007	E	10	5	0.58	98.89	BIS		FALSE
2007	E	10	6	0.76	98.78	BIS		FALSE
2007	E	10	7	1.31	98.39	BIS		FALSE
2007	E	10	8	1.65	98.36	BIS		FALSE
2007	E	10	9	1.95	98.29	BIS		FALSE
2007	E	10	10	2.29	98.31	BIS		FALSE
2007	E	10	11	2.35	98.13	IN WATER		FALSE
2007	E	10	12	2.65	98.06	BIS		FALSE
2007	E	10	13	2.87	98.04	TW		FALSE
2007	E	10	14	3.26	98.08	BIS		FALSE
2007	E	10	15	3.44	98.16	WER		FALSE
2007	E	10	16	3.90	98.33	BF		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	E	10	17	4.11	98.44	BIS		FALSE
2007	E	10	18	5.03	98.64	BIS		FALSE
2007	E	10	19	5.18	99.06	TOB		FALSE
2007	E	10	20	5.58	99.39	BIS		FALSE
2007	E	10	21	6.40	99.72	BIS		FALSE
2007	E	10	22	7.04	99.95	BOT REB	Bot X10R reb/low	FALSE
2007	E	10	23	7.04	100.16	TOP REB	Top X10R reb/low	FALSE
2007	F	1	1	0.00	100.00	TOP REB	Top X1L reb/low	FALSE
2007	F	1	2	0.00	99.93	BOT REB	Bot X1L reb/low	FALSE
2007	F	1	3	0.98	99.14	BIS		FALSE
2007	F	1	4	1.71	98.93	BIS		FALSE
2007	F	1	5	1.89	99.34	BIS	TOP OF FALLEN ALDER ROOT WAD	FALSE
2007	F	1	6	2.32	99.12	BIS	LOG OF ROOT WAD	FALSE
2007	F	1	7	2.71	98.58	BIS		FALSE
2007	F	1	8	3.26	98.33	BIS		FALSE
2007	F	1	9	4.05	98.33	BIS		FALSE
2007	F	1	10	4.69	98.18	BIS		FALSE
2007	F	1	11	5.03	98.08	BIS		FALSE
2007	F	1	12	5.40	98.24	BIS	ON A ROCK	FALSE
2007	F	1	13	5.73	97.99	WEL		FALSE
2007	F	1	14	5.85	97.92	BIS		FALSE
2007	F	1	15	6.00	97.98	BIS		FALSE
2007	F	1	16	6.13	97.92	TW		FALSE
2007	F	1	17	6.31	98.07	BIS		FALSE
2007	F	1	18	6.46	98.05	WER		FALSE
2007	F	1	19	6.71	98.25	BIS		FALSE
2007	F	1	20	6.92	98.16	BIS		FALSE
2007	F	1	21	7.07	98.17	BIS		FALSE
2007	F	1	22	7.74	98.37	BIS		FALSE
2007	F	1	23	8.26	98.68	BIS		FALSE
2007	F	1	24	8.84	99.35	BIS		FALSE
2007	F	1	25	9.42	99.70	BOT REB	Bot X1R reb/low	FALSE
2007	F	1	26	9.42	99.81	TOP REB	Top X1R reb/low	FALSE
2007	F	2	1	0.00	100.00	TOP REB	Top X2L reb/low	FALSE
2007	F	2	2	0.00	99.79	BOT REB	Bot X2L reb/low	FALSE
2007	F	2	3	0.37	99.46	BIS		FALSE
2007	F	2	4	1.10	99.06	BIS		FALSE
2007	F	2	5	1.92	98.70	BIS		FALSE
2007	F	2	6	2.53	98.38	BIS		FALSE
2007	F	2	7	2.65	98.04	BIS		FALSE
2007	F	2	8	3.47	97.73	BF		FALSE
2007	F	2	9	4.24	97.58	BIS		FALSE
2007	F	2	10	4.51	97.47	WEL		FALSE
2007	F	2	11	4.85	97.37	TW		FALSE
2007	F	2	12	5.18	97.65	BIS	ON A ROCK	FALSE
2007	F	2	13	5.36	97.46	BIS		FALSE
2007	F	2	14	5.97	97.45	WER		FALSE
2007	F	2	15	6.25	97.55	BIS		FALSE
2007	F	2	16	6.86	97.80	BIS		FALSE
2007	F	2	17	7.80	98.24	BIS		FALSE
2007	F	2	18	8.14	98.48	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	F	2	19	8.44	99.80	BIS		FALSE
2007	F	2	20	8.72	99.64	BOT REB	Bot X2R reb/low	FALSE
2007	F	2	21	8.72	99.80	TOP REB	Top X2R reb/low	FALSE
2007	F	3	1	0.00	100.00	TOP REB	Top X3L reb/low	FALSE
2007	F	3	2	0.00	99.83	BOT REB	Bot X3L reb/low	FALSE
2007	F	3	3	0.46	99.65	BIS		FALSE
2007	F	3	4	1.10	99.35	BIS		FALSE
2007	F	3	5	1.31	98.61	BIS		FALSE
2007	F	3	6	1.95	98.45	BIS		FALSE
2007	F	3	7	2.74	98.37	BIS		FALSE
2007	F	3	8	2.90	98.45	BIS		FALSE
2007	F	3	9	3.23	98.22	BIS		FALSE
2007	F	3	10	3.47	98.09	BIS		FALSE
2007	F	3	11	3.75	98.31	BIS		FALSE
2007	F	3	12	3.87	97.89	WEL	REAL WATERS EDGE UNDER OVERHANGING ROCKS	FALSE
2007	F	3	13	4.21	97.93	WER		FALSE
2007	F	3	14	4.45	98.14	BIS		FALSE
2007	F	3	15	4.72	97.92	BIS		FALSE
2007	F	3	16	5.36	98.01	BIS		FALSE
2007	F	3	17	6.19	98.62	BIS		FALSE
2007	F	3	18	6.86	98.69	BIS		FALSE
2007	F	3	19	7.07	99.23	BIS		FALSE
2007	F	3	20	7.35	99.79	BIS		FALSE
2007	F	3	21	7.77	100.06	BOT REB	Bot X3R reb/low	FALSE
2007	F	3	22	7.77	100.06	TOP REB	Top X3R reb/low	FALSE
2007	F	4	1	0.00	100.00	TOP REB	Top X4L reb/low	FALSE
2007	F	4	2	0.00	99.90	BOT REB	Bot X4L reb/low	FALSE
2007	F	4	3	0.73	99.38	BIS		FALSE
2007	F	4	4	1.34	99.05	BIS		FALSE
2007	F	4	5	1.68	98.82	BIS		FALSE
2007	F	4	6	2.07	98.21	BIS		FALSE
2007	F	4	7	2.65	97.87	BF		FALSE
2007	F	4	8	3.63	97.67	WEL		FALSE
2007	F	4	9	4.18	97.61	BIS		FALSE
2007	F	4	10	4.21	97.74	BIS	ROCK	FALSE
2007	F	4	11	4.33	97.64	BIS		FALSE
2007	F	4	12	4.75	97.57	BIS		FALSE
2007	F	4	13	4.97	97.82	BIS		FALSE
2007	F	4	14	5.15	97.55	TW		FALSE
2007	F	4	15	5.73	97.59	WER	TRUE WATERS EDGE UNDER LOG	FALSE
2007	F	4	16	5.91	97.87	BIS	ON LOG	FALSE
2007	F	4	17	6.10	97.70	BIS		FALSE
2007	F	4	18	6.31	97.75	BIS		FALSE
2007	F	4	19	6.61	98.33	BIS		FALSE
2007	F	4	20	7.16	98.80	BIS		FALSE
2007	F	4	21	7.62	99.48	BIS		FALSE
2007	F	4	22	8.17	99.77	BIS		FALSE
2007	F	4	23	8.78	99.95	BOT REB	Bot X4R reb/low	FALSE
2007	F	4	24	8.78	100.14	TOP REB	Top X4R reb/low	FALSE
2007	F	5	1	0.00	100.00	TOP REB	Top X5L reb/low	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	F	5	2	0.00	99.95	BOT REB	Bot X5L reb/low	FALSE
2007	F	5	3	0.67	99.33	BIS		FALSE
2007	F	5	4	1.52	98.89	BIS		FALSE
2007	F	5	5	2.23	98.68	BIS		FALSE
2007	F	5	6	2.59	98.51	BF		FALSE
2007	F	5	7	3.23	98.48	BIS		FALSE
2007	F	5	8	3.51	98.39	WEL		FALSE
2007	F	5	9	3.96	98.30	TW		FALSE
2007	F	5	10	4.30	98.35	BIS		FALSE
2007	F	5	11	4.63	98.37	WER		FALSE
2007	F	5	12	5.27	98.56	BIS		FALSE
2007	F	5	13	5.94	99.13	BIS	ON A ROCK	FALSE
2007	F	5	14	6.37	98.78	BIS		FALSE
2007	F	5	15	6.83	99.01	BIS		FALSE
2007	F	5	16	7.32	99.41	BIS		FALSE
2007	F	5	17	7.62	99.83	BOT REB	Bot X5R reb/low	FALSE
2007	F	5	18	7.62	99.90	TOP REB	Top X5R reb/low	FALSE
2007	F	6	1	0.00	100.00	TOP REB	Top X6L reb/low	FALSE
2007	F	6	2	0.00	99.77	BOT REB	Bot X6L reb/low	FALSE
2007	F	6	3	0.67	99.45	BIS		FALSE
2007	F	6	4	1.10	99.19	BIS		FALSE
2007	F	6	5	1.92	98.35	BIS	small bank failure during survey, log shifted, dave ate shit	FALSE
2007	F	6	6	2.26	98.63	BIS	top of log that fell, WE under log	FALSE
2007	F	6	7	2.50	98.22	BIS		FALSE
2007	F	6	8	2.90	98.24	BIS		FALSE
2007	F	6	9	3.20	98.16	TW		FALSE
2007	F	6	10	3.54	98.24	WE (BAR)		FALSE
2007	F	6	11	4.08	98.33	BIS		FALSE
2007	F	6	12	4.45	98.26	WE (BAR)		FALSE
2007	F	6	13	4.79	98.25	WE UNDER ROCK		FALSE
2007	F	6	14	5.61	98.91	BIS	ON ROCK ABOVE WE	FALSE
2007	F	6	15	6.10	99.01	BIS		FALSE
2007	F	6	16	6.98	99.28	BIS		FALSE
2007	F	6	17	7.83	99.51	BIS		FALSE
2007	F	6	18	8.41	99.86	BOT REB	Bot X6R reb/low	FALSE
2007	F	6	19	8.41	99.97	TOP REB	Top X6R reb/low	FALSE
2007	F	7	1	0.00	100.00	TOP REB	Bot X7L reb/low	FALSE
2007	F	7	2	0.00	100.00	BOT REB	Top X7L reb/low - GROUND AT REBAR	FALSE
2007	F	7	3	0.40	99.63	BIS		FALSE
2007	F	7	4	0.67	99.18	BIS		FALSE
2007	F	7	5	1.10	98.95	BIS		FALSE
2007	F	7	6	1.13	98.78	BIS		FALSE
2007	F	7	7	1.58	98.58	BF?		FALSE
2007	F	7	8	1.80	98.47	WEL		FALSE
2007	F	7	9	1.95	98.44	BIS		FALSE
2007	F	7	10	2.38	98.45	BIS	MID CHANNEL BAR	FALSE
2007	F	7	11	2.74	98.44	BIS	MID CHANNEL BAR	FALSE
2007	F	7	12	3.05	98.42	TW		FALSE
2007	F	7	13	3.41	98.44	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	F	7	14	3.72	98.49	WER		FALSE
2007	F	7	15	3.93	98.55	BF		FALSE
2007	F	7	16	4.30	98.87	BIS	TOP OF ROCK	FALSE
2007	F	7	17	4.54	98.82	BIS		FALSE
2007	F	7	18	5.09	98.88	BIS		FALSE
2007	F	7	19	5.67	99.04	BIS		FALSE
2007	F	7	20	6.49	99.22	BIS		FALSE
2007	F	7	21	7.32	99.37	BIS		FALSE
2007	F	7	22	7.92	99.55	BIS		FALSE
2007	F	7	23	8.69	99.85	BOT X7R	Bot X7R reb/low	FALSE
2007	F	7	24	8.69	99.95	TOP X7R	Top X7R reb/low	FALSE
2007	F	8	1	0.00	100.00	TOP REB	Bot X8L reb/low	FALSE
2007	F	8	2	0.00	99.86	BOT REB	Top X8L reb/low	FALSE
2007	F	8	3	0.34	99.53	BIS		FALSE
2007	F	8	4	0.82	99.50	BIS		FALSE
2007	F	8	5	1.13	98.63	BIS		FALSE
2007	F	8	6	1.71	98.36	BIS		FALSE
2007	F	8	7	2.19	98.27	BIS		FALSE
2007	F	8	8	2.50	97.93	BF		FALSE
2007	F	8	9	3.35	97.81	WEL		FALSE
2007	F	8	10	3.44	97.78	BIS		FALSE
2007	F	8	11	3.66	97.75	TW		FALSE
2007	F	8	12	3.96	97.76	BIS		FALSE
2007	F	8	13	4.33	97.84	BIS		FALSE
2007	F	8	14	4.48	97.87	BIS		FALSE
2007	F	8	15	4.85	98.17	BIS		FALSE
2007	F	8	16	5.33	98.46	TBR		FALSE
2007	F	8	17	6.10	98.59	BIS		FALSE
2007	F	8	18	7.35	98.80	BIS		FALSE
2007	F	8	19	7.99	98.71	BIS		FALSE
2007	F	8	20	8.53	98.68	BIS		FALSE
2007	F	8	21	8.96	98.80	BIS		FALSE
2007	F	8	22	9.45	99.18	BIS		FALSE
2007	F	8	23	9.91	99.40	BIS		FALSE
2007	F	8	24	10.79	99.66	BIS		FALSE
2007	F	8	25	11.09	99.82	BIS		FALSE
2007	F	8	26	11.98	99.83	BIS		FALSE
2007	F	8	27	12.65	99.91	BOT REB	Bot X8R reb/low	FALSE
2007	F	8	28	12.65	100.03	TOP REB	Top X8R reb/low	FALSE
2007	F	9	1	0.00	100.00	TOP REB	Top X9L reb/low	FALSE
2007	F	9	2	0.00	99.83	BOT REB	Bot X9L reb/low	FALSE
2007	F	9	3	0.24	99.67	BIS		FALSE
2007	F	9	4	0.46	99.24	BIS		FALSE
2007	F	9	5	0.91	99.07	BIS		FALSE
2007	F	9	6	1.19	98.83	BIS	fixed, 1 foot low	FALSE
2007	F	9	7	1.80	98.67	BIS		FALSE
2007	F	9	8	1.83	98.76	BIS	on rock	FALSE
2007	F	9	9	2.07	98.67	BIS	on rock	FALSE
2007	F	9	10	2.13	98.53	BF?		FALSE
2007	F	9	11	2.35	98.48	WE		FALSE
2007	F	9	12	2.59	98.43	BIS		FALSE
2007	F	9	13	2.87	98.59	BIS	on rock	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2007	F	9	14	2.99	98.47	BIS		FALSE
2007	F	9	15	3.32	98.37	TW		FALSE
2007	F	9	16	3.72	98.41	WER		FALSE
2007	F	9	17	3.81	98.93	BIS	root wad of fern	FALSE
2007	F	9	18	4.27	99.05	BIS		FALSE
2007	F	9	19	5.18	99.18	BIS		FALSE
2007	F	9	20	6.16	99.22	BIS		FALSE
2007	F	9	21	7.04	99.03	BIS		FALSE
2007	F	9	22	7.62	99.12	BIS	fixed, 1 foot low	FALSE
2007	F	9	23	9.02	99.05	BIS		FALSE
2007	F	9	24	9.75	99.05	BIS		FALSE
2007	F	9	25	10.21	99.53	BIS		FALSE
2007	F	9	26	10.70	99.64	BIS		FALSE
2007	F	9	27	11.25	99.79	BOT REB	Bot X9R reb/low	FALSE
2007	F	9	28	11.25	99.96	TOP REB	Top X9R reb/low	FALSE
2007	F	10	1	0.00	100.00	TOP REB	Bot X10L reb/low	FALSE
2007	F	10	2	0.00	99.83	BOT REB	Top X10L reb/low	FALSE
2007	F	10	3	0.21	99.63	BIS		FALSE
2007	F	10	4	0.27	99.09	BIS		FALSE
2007	F	10	5	0.76	98.81	BIS		FALSE
2007	F	10	6	1.25	98.56	BIS		FALSE
2007	F	10	7	1.49	98.45	WEL		FALSE
2007	F	10	8	1.77	98.43	BIS		FALSE
2007	F	10	9	1.95	98.39	TW		FALSE
2007	F	10	10	2.65	98.38	BIS		FALSE
2007	F	10	11	2.83	98.46	WER		FALSE
2007	F	10	12	3.11	98.55	BF		FALSE
2007	F	10	13	3.23	98.63	BIS		FALSE
2007	F	10	14	3.78	98.68	BIS		FALSE
2007	F	10	15	4.15	98.94	BIS		FALSE
2007	F	10	16	4.60	99.24	BIS		FALSE
2007	F	10	17	5.46	99.27	BIS		FALSE
2007	F	10	18	6.71	99.09	BIS		FALSE
2007	F	10	19	7.92	99.05	BIS		FALSE
2007	F	10	20	8.99	98.94	BIS		FALSE
2007	F	10	21	9.30	99.45	BIS		FALSE
2007	F	10	22	9.54	99.61	BIS		FALSE
2007	F	10	23	9.75	99.66	BOT REB	Bot X10R reb/low	FALSE
2007	F	10	24	9.75	99.80	TOP REB	Top X10R reb/low	FALSE
2008	A	1	1	0.00	100.00	TOP X1L		FALSE
2008	A	1	2	0.00	99.88	BOT X1L		FALSE
2008	A	1	3	0.55	99.68	BIS		FALSE
2008	A	1	4	0.88	99.64	BIS		FALSE
2008	A	1	5	1.19	99.61	BIS		FALSE
2008	A	1	6	1.46	99.58	BIS		FALSE
2008	A	1	7	1.74	99.56	BIS		FALSE
2008	A	1	8	2.07	99.48	BIS		FALSE
2008	A	1	9	2.47	99.40	BIS		FALSE
2008	A	1	10	2.68	99.63	BIS	On log	TRUE
2008	A	1	11	2.90	99.29	BIS		FALSE
2008	A	1	12	3.11	99.27	BIS		FALSE
2008	A	1	13	3.26	99.28	TOB		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	A	1	14	3.57	98.98	BIS		FALSE
2008	A	1	15	3.66	98.95	BF		FALSE
2008	A	1	16	3.93	98.79	BIS		FALSE
2008	A	1	17	4.15	98.72	BIS		FALSE
2008	A	1	18	4.42	98.71	EW		FALSE
2008	A	1	19	4.66	98.64	BIS		FALSE
2008	A	1	20	4.88	98.60	TW		FALSE
2008	A	1	21	5.27	98.61	BIS		FALSE
2008	A	1	22	5.55	98.64	BIS		FALSE
2008	A	1	23	5.67	98.67	BIS		FALSE
2008	A	1	24	5.85	98.71	EW		FALSE
2008	A	1	25	5.97	98.74	BIS		FALSE
2008	A	1	26	6.13	98.79	BIS		FALSE
2008	A	1	27	6.31	99.02	TOB		FALSE
2008	A	1	28	6.55	99.09	BIS		FALSE
2008	A	1	29	6.71	99.16	BIS		FALSE
2008	A	1	30	6.95	99.25	BIS		FALSE
2008	A	1	31	7.16	99.36	BIS		FALSE
2008	A	1	32	7.44	99.43	BIS		FALSE
2008	A	1	33	7.68	99.46	BIS		FALSE
2008	A	1	34	7.92	99.47	BIS		FALSE
2008	A	1	35	8.23	99.51	BIS		FALSE
2008	A	1	36	8.60	99.59	BIS		FALSE
2008	A	1	37	8.84	99.67	BIS		FALSE
2008	A	1	38	8.99	99.73	BIS		FALSE
2008	A	1	39	9.11	99.81	BOT X1R		FALSE
2008	A	1	40	9.11	100.00	TOP X1R		FALSE
2008	A	2	1	0.00	100.00	Top X2L		FALSE
2008	A	2	2	0.00	99.72	Bot X2L		FALSE
2008	A	2	3	0.70	99.56	BIS		FALSE
2008	A	2	4	1.40	99.43	BIS		FALSE
2008	A	2	5	2.23	98.95	BIS		FALSE
2008	A	2	6	2.96	98.80	BIS		FALSE
2008	A	2	7	3.47	98.62	BIS		FALSE
2008	A	2	8	3.96	98.42	TBL		FALSE
2008	A	2	9	4.48	98.22	BF		FALSE
2008	A	2	10	4.94	98.11	EWL		FALSE
2008	A	2	11	5.12	98.04	BIS		FALSE
2008	A	2	12	5.40	98.06	BIS		FALSE
2008	A	2	13	5.70	98.06	BIS		FALSE
2008	A	2	14	5.88	98.14	BIS	top of rock	FALSE
2008	A	2	15	6.07	98.03	BIS		FALSE
2008	A	2	16	6.28	98.08	BIS		FALSE
2008	A	2	17	6.71	97.98	TW		FALSE
2008	A	2	18	6.86	98.02	EWR	EWR continues under log	FALSE
2008	A	2	19	6.98	98.63	BIS	on log - over water	TRUE
2008	A	2	20	7.56	98.60	TBR	on log	TRUE
2008	A	2	21	8.23	98.75	BIS		FALSE
2008	A	2	22	8.53	99.13	BIS		FALSE
2008	A	2	23	9.24	98.96	BIS		FALSE
2008	A	2	24	10.00	99.46	BIS		FALSE
2008	A	2	25	10.36	99.58	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	A	2	26	10.76	99.70	BOT X2R		FALSE
2008	A	2	27	10.76	100.00	TOP X2R		FALSE
2008	A	3	1	0.00	100.00	TOP X3L		FALSE
2008	A	3	2	0.00	99.54	BOT X3L		FALSE
2008	A	3	3	0.12	99.59	BIS		FALSE
2008	A	3	4	0.61	99.83	BIS	On downed alder	TRUE
2008	A	3	5	0.98	98.85	BIS		FALSE
2008	A	3	6	1.16	98.81	BIS		FALSE
2008	A	3	7	1.37	98.77	TOB		FALSE
2008	A	3	8	1.52	98.16	BIS		FALSE
2008	A	3	9	1.92	98.23	BIS		FALSE
2008	A	3	10	2.07	98.18	BIS		FALSE
2008	A	3	11	2.23	97.94	BIS		FALSE
2008	A	3	12	2.44	97.82	EW		FALSE
2008	A	3	13	2.96	97.85	BIS		FALSE
2008	A	3	14	3.26	97.83	BIS		FALSE
2008	A	3	15	3.63	97.76	TW		FALSE
2008	A	3	16	4.15	97.78	BIS		FALSE
2008	A	3	17	4.42	97.81	BIS		FALSE
2008	A	3	18	4.63	97.84	EW		FALSE
2008	A	3	19	5.03	98.03	BIS		FALSE
2008	A	3	20	5.40	98.19	BIS		FALSE
2008	A	3	21	5.52	98.37	TOB		FALSE
2008	A	3	22	6.00	98.49	BIS		FALSE
2008	A	3	23	6.58	98.54	BIS		FALSE
2008	A	3	24	6.98	98.58	BIS		FALSE
2008	A	3	25	7.50	98.53	BIS		FALSE
2008	A	3	26	7.65	98.45	BIS		FALSE
2008	A	3	27	7.96	98.56	BIS		FALSE
2008	A	3	28	8.44	98.66	BIS		FALSE
2008	A	3	29	8.90	98.74	BIS		FALSE
2008	A	3	30	9.72	99.26	BIS		FALSE
2008	A	3	31	9.97	99.38	BIS		FALSE
2008	A	3	32	10.33	99.45	BIS		FALSE
2008	A	3	33	10.61	99.68	BIS		FALSE
2008	A	3	34	10.79	99.68	BOT X3R		FALSE
2008	A	3	35	10.79	100.08	TOP X3R		FALSE
2008	A	4	1	0.00	100.00	TOP X4L		FALSE
2008	A	4	2	0.00	99.70	BOT X4L		FALSE
2008	A	4	3	0.58	99.66	BIS		FALSE
2008	A	4	4	1.07	99.57	BIS		FALSE
2008	A	4	5	1.43	99.48	BIS		FALSE
2008	A	4	6	1.77	99.40	BIS		FALSE
2008	A	4	7	2.01	99.37	BIS		FALSE
2008	A	4	8	2.26	99.33	BIS		FALSE
2008	A	4	9	2.53	99.19	TOB		FALSE
2008	A	4	10	2.74	98.87	BIS		FALSE
2008	A	4	11	2.90	98.70	BIS		FALSE
2008	A	4	12	3.11	98.62	BIS		FALSE
2008	A	4	13	3.41	98.59	BIS		FALSE
2008	A	4	14	3.75	98.58	BIS		FALSE
2008	A	4	15	4.05	98.53	EW		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	A	4	16	4.42	98.45	BIS		FALSE
2008	A	4	17	4.91	98.41	TW		FALSE
2008	A	4	18	5.33	98.51	BIS		FALSE
2008	A	4	19	5.58	98.53	EW		FALSE
2008	A	4	20	5.88	98.58	BIS		FALSE
2008	A	4	21	6.22	98.70	BIS		FALSE
2008	A	4	22	6.28	98.81	BF		FALSE
2008	A	4	23	6.77	98.98	BIS		FALSE
2008	A	4	24	7.16	99.04	BIS		FALSE
2008	A	4	25	7.47	99.09	BIS		FALSE
2008	A	4	26	7.89	99.23	BIS		FALSE
2008	A	4	27	8.23	99.41	BIS	Rock	FALSE
2008	A	4	28	8.53	99.42	BIS		FALSE
2008	A	4	29	8.78	99.45	BOT X4R		FALSE
2008	A	4	30	8.78	99.83	TOP X4R		FALSE
2008	A	5	1	0.00	100.00	TOP X5L		FALSE
2008	A	5	2	0.00	99.75	BOT X5L		FALSE
2008	A	5	3	0.61	99.87	BIS		FALSE
2008	A	5	4	0.91	99.81	BIS		FALSE
2008	A	5	5	1.58	99.73	BIS	On log	FALSE
2008	A	5	6	2.04	99.58	TOB	On log	FALSE
2008	A	5	7	2.32	99.16	BIS	On log	FALSE
2008	A	5	8	2.59	98.81	BIS		FALSE
2008	A	5	9	2.96	98.74	BIS		FALSE
2008	A	5	10	3.26	98.69	EW		FALSE
2008	A	5	11	3.63	98.64	BIS		FALSE
2008	A	5	12	4.11	98.57	TW		FALSE
2008	A	5	13	4.54	98.59	BIS		FALSE
2008	A	5	14	4.97	98.69	EW		FALSE
2008	A	5	15	5.27	98.99	BIS	On rock	FALSE
2008	A	5	16	5.85	99.02	BF		FALSE
2008	A	5	17	6.16	99.12	BIS		FALSE
2008	A	5	18	6.64	99.26	BIS		FALSE
2008	A	5	19	7.19	99.58	BIS		FALSE
2008	A	5	20	7.83	99.60	BOT X5R		FALSE
2008	A	5	21	7.83	99.98	TOP X5R		FALSE
2008	A	6	1	0.00	100.00	TOP X6L		FALSE
2008	A	6	2	0.00	99.79	BOT X6L		FALSE
2008	A	6	3	0.15	99.71	TOB		FALSE
2008	A	6	4	1.04	98.59	BIS		FALSE
2008	A	6	5	1.40	98.36	BF		FALSE
2008	A	6	6	1.77	98.15	BIS		FALSE
2008	A	6	7	2.10	98.17	BIS		FALSE
2008	A	6	8	2.59	98.06	EW		FALSE
2008	A	6	9	2.83	98.05	BIS		FALSE
2008	A	6	10	3.08	98.03	TW		FALSE
2008	A	6	11	3.51	98.05	BIS		FALSE
2008	A	6	12	4.02	98.12	BIS		FALSE
2008	A	6	13	4.11	98.06	EW		FALSE
2008	A	6	14	4.39	98.71	TOB		FALSE
2008	A	6	15	5.18	99.07	BIS		FALSE
2008	A	6	16	6.68	99.31	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	A	6	17	7.89	99.36	BIS		FALSE
2008	A	6	18	9.14	99.34	BIS		FALSE
2008	A	6	19	10.36	99.38	BIS		FALSE
2008	A	6	20	11.52	99.34	BIS		FALSE
2008	A	6	21	12.80	99.27	BIS		FALSE
2008	A	6	22	13.17	99.32	BIS		FALSE
2008	A	6	23	14.33	99.28	BIS		FALSE
2008	A	6	24	14.72	99.29	BIS		FALSE
2008	A	6	25	15.03	99.56	BIS		FALSE
2008	A	6	26	15.18	99.58	BOT X6R		FALSE
2008	A	6	27	15.18	99.97	TOB X6R		FALSE
2008	A	7	1	0.00	100.00	TOP X7L		FALSE
2008	A	7	2	0.00	99.79	BOT X7L		FALSE
2008	A	7	3	0.44	99.73	BIS		FALSE
2008	A	7	4	0.58	99.64	TOB		FALSE
2008	A	7	5	1.46	98.75	BIS		FALSE
2008	A	7	6	1.77	98.66	BIS	On rock	FALSE
2008	A	7	7	2.16	98.78	BIS	On rock	FALSE
2008	A	7	8	2.41	98.61	BIS	On rock	FALSE
2008	A	7	9	2.56	98.24	BIS	On rock	FALSE
2008	A	7	10	2.68	98.17	EW		FALSE
2008	A	7	11	3.20	98.19	BIS	On rock	FALSE
2008	A	7	12	3.41	98.25	BIS	On rock	FALSE
2008	A	7	13	3.66	98.06	BIS	On rock	FALSE
2008	A	7	14	3.84	97.99	TW		FALSE
2008	A	7	15	4.02	98.01	BIS		FALSE
2008	A	7	16	4.21	98.03	BIS		FALSE
2008	A	7	17	4.42	98.09	EW		FALSE
2008	A	7	18	4.45	98.22	BIS		FALSE
2008	A	7	19	4.66	98.39	BIS		FALSE
2008	A	7	20	4.88	98.54	BF		FALSE
2008	A	7	21	5.24	98.62	BIS		FALSE
2008	A	7	22	5.88	98.81	BIS		FALSE
2008	A	7	23	6.31	98.89	BIS		FALSE
2008	A	7	24	6.80	98.97	BIS		FALSE
2008	A	7	25	7.68	99.06	BIS		FALSE
2008	A	7	26	8.02	99.16	BIS		FALSE
2008	A	7	27	8.38	99.25	BIS		FALSE
2008	A	7	28	8.63	99.35	BIS	On rock	FALSE
2008	A	7	29	8.90	99.44	BIS	On rock	FALSE
2008	A	7	30	9.45	99.46	BIS		FALSE
2008	A	7	31	10.67	99.58	BIS		FALSE
2008	A	7	32	12.01	99.51	BIS		FALSE
2008	A	7	33	13.66	99.45	BIS		FALSE
2008	A	7	34	14.75	99.34	BIS		FALSE
2008	A	7	35	16.61	99.37	BIS		FALSE
2008	A	7	36	17.25	99.38	BIS		FALSE
2008	A	7	37	17.98	99.54	BIS		FALSE
2008	A	7	38	18.29	99.64	BIS		FALSE
2008	A	7	39	18.71	99.96	BOT X7R		FALSE
2008	A	7	40	18.71	100.22	TOP X7R		FALSE
2008	A	8	1	0.00	100.00	TOP X8L		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	A	8	2	0.00	99.65	BOT X8L		FALSE
2008	A	8	3	0.61	99.60	BIS		FALSE
2008	A	8	4	0.98	99.41	TOB		FALSE
2008	A	8	5	1.13	98.53	BIS		FALSE
2008	A	8	6	1.77	98.39	BIS		FALSE
2008	A	8	7	2.23	98.24	BF		FALSE
2008	A	8	8	2.77	98.05	BIS		FALSE
2008	A	8	9	3.17	97.91	EW		FALSE
2008	A	8	10	3.63	97.84	TW		FALSE
2008	A	8	11	4.24	97.85	BIS		FALSE
2008	A	8	12	4.54	97.92	BIS		FALSE
2008	A	8	13	5.18	97.90	BIS		FALSE
2008	A	8	14	5.58	97.97	EW		FALSE
2008	A	8	15	5.88	97.92	BIS		FALSE
2008	A	8	16	6.25	98.39	TOB		FALSE
2008	A	8	17	6.80	98.51	BIS		FALSE
2008	A	8	18	7.62	98.71	BIS	Point may be 1' off.	FALSE
2008	A	8	19	8.32	98.69	BIS		FALSE
2008	A	8	20	9.08	98.77	BIS		FALSE
2008	A	8	21	9.75	98.80	BIS		FALSE
2008	A	8	22	10.36	98.87	BIS		FALSE
2008	A	8	23	10.97	98.94	BIS		FALSE
2008	A	8	24	11.86	99.13	BIS		FALSE
2008	A	8	25	12.65	99.23	BIS		FALSE
2008	A	8	26	13.11	99.25	BIS		FALSE
2008	A	8	27	13.72	99.21	BIS		FALSE
2008	A	8	28	14.60	99.18	BIS		FALSE
2008	A	8	29	15.64	99.07	BIS		FALSE
2008	A	8	30	16.40	98.99	BIS		FALSE
2008	A	8	31	16.86	99.00	BIS		FALSE
2008	A	8	32	17.71	99.14	BIS		FALSE
2008	A	8	33	18.47	99.14	BIS		FALSE
2008	A	8	34	19.63	99.65	BOT X8R		FALSE
2008	A	8	35	19.63	100.00	TOP X8R		FALSE
2008	A	9	1	0.00	100.00	TOP X9L		FALSE
2008	A	9	2	0.00	99.67	BOT X9L		FALSE
2008	A	9	3	0.49	99.70	BIS		FALSE
2008	A	9	4	0.79	99.64	TOB		FALSE
2008	A	9	5	0.88	98.70	BIS		FALSE
2008	A	9	6	1.95	98.57	BIS		FALSE
2008	A	9	7	2.35	98.60	BIS		FALSE
2008	A	9	8	2.71	98.50	BIS		FALSE
2008	A	9	9	3.14	98.52	BIS		FALSE
2008	A	9	10	3.51	98.45	BF		FALSE
2008	A	9	11	4.05	98.20	BIS		FALSE
2008	A	9	12	4.42	98.15	EW		FALSE
2008	A	9	13	5.18	97.99	TW		FALSE
2008	A	9	14	5.67	98.05	BIS		FALSE
2008	A	9	15	6.43	98.09	BIS		FALSE
2008	A	9	16	6.68	98.15	EW		FALSE
2008	A	9	17	6.95	98.20	BIS		FALSE
2008	A	9	18	7.38	98.40	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	A	9	19	8.02	98.54	BIS		FALSE
2008	A	9	20	8.47	98.78	TOB		FALSE
2008	A	9	21	9.66	98.88	BIS		FALSE
2008	A	9	22	10.67	99.03	BIS		FALSE
2008	A	9	23	12.07	98.98	BIS		FALSE
2008	A	9	24	12.74	99.16	BIS		FALSE
2008	A	9	25	13.05	99.39	BIS		FALSE
2008	A	9	26	13.90	99.43	BIS		FALSE
2008	A	9	27	14.94	99.34	BIS		FALSE
2008	A	9	28	16.28	99.31	BIS		FALSE
2008	A	9	29	17.16	99.21	BIS		FALSE
2008	A	9	30	18.29	99.35	BIS		FALSE
2008	A	9	31	19.51	99.40	BIS		FALSE
2008	A	9	32	20.15	99.67	BIS		FALSE
2008	A	9	33	20.67	99.98	BOT X9R	Rebar bent in 0.3'	FALSE
2008	A	9	34	20.67	100.24	TOP X9R		FALSE
2008	A	10	1	0.00	100.00	TOP X10L		FALSE
2008	A	10	2	0.00	99.59	BOT X10L		FALSE
2008	A	10	3	0.49	99.57	TOB		FALSE
2008	A	10	4	0.61	98.67	BIS	undercut bank 0.4'	FALSE
2008	A	10	5	2.10	98.52	BIS		FALSE
2008	A	10	6	2.32	98.55	BIS		FALSE
2008	A	10	7	2.59	98.45	BIS		FALSE
2008	A	10	8	2.96	98.35	BIS		FALSE
2008	A	10	9	3.51	98.34	BIS		FALSE
2008	A	10	10	3.84	98.36	BIS		FALSE
2008	A	10	11	3.93	98.34	BIS		FALSE
2008	A	10	12	4.48	98.22	BIS		FALSE
2008	A	10	13	4.63	98.29	BIS		FALSE
2008	A	10	14	4.91	98.20	BIS		FALSE
2008	A	10	15	5.24	98.21	BIS		FALSE
2008	A	10	16	5.43	98.31	BIS		FALSE
2008	A	10	17	5.73	98.17	BF	on rock	FALSE
2008	A	10	18	5.76	97.88	EW		FALSE
2008	A	10	19	5.97	97.53	BIS		FALSE
2008	A	10	20	6.16	97.57	BIS		FALSE
2008	A	10	21	6.37	97.50	BIS		FALSE
2008	A	10	22	7.07	97.53	BIS		FALSE
2008	A	10	23	7.41	97.64	BIS		FALSE
2008	A	10	24	7.71	98.10	BIS	on rock	FALSE
2008	A	10	25	8.44	97.64	BIS		FALSE
2008	A	10	26	8.90	97.47	TW		FALSE
2008	A	10	27	9.17	98.26	BIS	on rock	FALSE
2008	A	10	28	9.45	97.87	EW		FALSE
2008	A	10	29	10.09	98.23	TOB		FALSE
2008	A	10	30	10.58	98.59	BIS		FALSE
2008	A	10	31	11.73	98.82	BIS		FALSE
2008	A	10	32	12.62	98.92	BIS		FALSE
2008	A	10	33	14.02	98.94	BIS		FALSE
2008	A	10	34	15.54	99.06	BIS		FALSE
2008	A	10	35	17.07	99.00	BIS		FALSE
2008	A	10	36	17.98	99.12	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	A	10	37	18.50	99.29	BIS		FALSE
2008	A	10	38	20.30	99.80	BOT X10R		FALSE
2008	A	10	39	20.30	100.00	BOT X10R		FALSE
2008	B	1	1	0.00	100.00	TOP X1L		FALSE
2008	B	1	2	0.00	99.86	BOT X1L		FALSE
2008	B	1	3	0.27	99.75	BIS		FALSE
2008	B	1	4	0.40	99.26	BIS		FALSE
2008	B	1	5	0.85	98.58	BIS		FALSE
2008	B	1	6	1.19	98.33	BIS	on trail	FALSE
2008	B	1	7	1.62	98.22	TOB		FALSE
2008	B	1	8	1.83	98.12	BIS		FALSE
2008	B	1	9	2.04	97.94	BIS		FALSE
2008	B	1	10	2.44	97.96	BIS		FALSE
2008	B	1	11	2.83	97.62	EW	true EW under rock	FALSE
2008	B	1	12	3.14	97.56	BIS		FALSE
2008	B	1	13	3.47	97.62	BIS		FALSE
2008	B	1	14	3.75	97.63	BIS		FALSE
2008	B	1	15	4.39	97.60	BIS		FALSE
2008	B	1	16	5.49	97.54	BIS		FALSE
2008	B	1	17	5.76	97.52	TW		FALSE
2008	B	1	18	5.94	97.61	EW		FALSE
2008	B	1	19	6.19	97.63	BIS		FALSE
2008	B	1	20	6.58	97.70	BIS		FALSE
2008	B	1	21	6.95	97.81	BF		FALSE
2008	B	1	22	7.22	98.04	BIS		FALSE
2008	B	1	23	7.96	98.51	BIS		FALSE
2008	B	1	24	8.44	98.72	BIS		FALSE
2008	B	1	25	8.90	99.05	BIS		FALSE
2008	B	1	26	9.14	99.24	BIS		FALSE
2008	B	1	27	9.45	99.65	BIS		FALSE
2008	B	1	28	9.88	99.76	BIS		FALSE
2008	B	1	29	10.06	99.81	BOT X1R		FALSE
2008	B	1	30	10.06	99.99	TOP X1R		FALSE
2008	B	2	1	0.00	100.00	TOP X2L	right rebar bent inwards; rebent into upward	FALSE
2008	B	2	2	0.00	99.59	BOT X2L		FALSE
2008	B	2	3	0.18	99.51	BIS	On horse trail	FALSE
2008	B	2	4	0.34	99.09	BIS	On horse trail	FALSE
2008	B	2	5	0.61	98.98	BIS	On horse trail	FALSE
2008	B	2	6	0.82	99.17	BIS	On horse trail	FALSE
2008	B	2	7	1.55	98.62	TOB	edge of horsetrail	FALSE
2008	B	2	8	1.95	98.28	BIS		FALSE
2008	B	2	9	2.16	98.16	BIS		FALSE
2008	B	2	10	2.41	98.01	BIS		FALSE
2008	B	2	11	2.74	97.85	BIS		FALSE
2008	B	2	12	3.08	97.51	BIS		FALSE
2008	B	2	13	3.35	97.46	BIS		FALSE
2008	B	2	14	3.84	97.43	EW		FALSE
2008	B	2	15	4.48	97.39	BIS		FALSE
2008	B	2	16	4.66	97.40	BIS		FALSE
2008	B	2	17	5.03	97.35	BIS		FALSE
2008	B	2	18	5.24	97.32	TW		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	B	2	19	5.52	97.33	BIS		FALSE
2008	B	2	20	5.79	97.35	BIS		FALSE
2008	B	2	21	6.07	97.35	BIS		FALSE
2008	B	2	22	6.46	97.40	EW		FALSE
2008	B	2	23	6.74	97.45	BIS		FALSE
2008	B	2	24	7.04	97.47	BF		FALSE
2008	B	2	25	7.44	97.57	BIS		FALSE
2008	B	2	26	7.56	97.86	BIS	on rock	TRUE
2008	B	2	27	7.92	97.82	BIS	on edge of rock	FALSE
2008	B	2	28	8.44	97.97	BIS		FALSE
2008	B	2	29	9.05	98.65	TOB		FALSE
2008	B	2	30	9.30	98.68	BIS		FALSE
2008	B	2	31	9.75	99.11	BIS		FALSE
2008	B	2	32	10.18	99.31	BIS		FALSE
2008	B	2	33	10.36	99.52	BIS		FALSE
2008	B	2	34	10.61	99.54	BOT X2R		FALSE
2008	B	2	35	10.61	99.99	TOP X2R		FALSE
2008	B	3	1	0.00	100.00	TOP X3L		FALSE
2008	B	3	2	0.00	99.48	BOT X3L		FALSE
2008	B	3	3	0.55	99.23	TOB		FALSE
2008	B	3	4	1.13	98.84	BIS		FALSE
2008	B	3	5	1.52	98.53	BIS		FALSE
2008	B	3	6	1.86	98.44	BIS		FALSE
2008	B	3	7	2.41	98.23	BIS		FALSE
2008	B	3	8	2.87	98.28	BIS		FALSE
2008	B	3	9	3.54	98.26	BIS		FALSE
2008	B	3	10	3.84	98.18	BF		FALSE
2008	B	3	11	4.30	98.03	EW		FALSE
2008	B	3	12	4.45	97.97	BIS		FALSE
2008	B	3	13	4.94	97.96	BIS		FALSE
2008	B	3	14	5.18	97.95	TW		FALSE
2008	B	3	15	5.49	97.96	BIS		FALSE
2008	B	3	16	5.73	97.96	EW	true EW under rock	FALSE
2008	B	3	17	6.13	98.12	BIS		FALSE
2008	B	3	18	6.34	98.16	BIS		FALSE
2008	B	3	19	6.64	98.42	BIS		FALSE
2008	B	3	20	7.19	98.70	BIS		FALSE
2008	B	3	21	7.68	98.96	BIS		FALSE
2008	B	3	22	8.20	99.27	BIS		FALSE
2008	B	3	23	8.47	99.72	BOT X3R		FALSE
2008	B	3	24	8.47	99.98	TOP X3R		FALSE
2008	B	4	1	0.00	100.00	TOP X4L		FALSE
2008	B	4	2	0.00	99.88	BOT X4L		FALSE
2008	B	4	3	0.24	99.81	BIS		FALSE
2008	B	4	4	1.16	99.66	BIS		FALSE
2008	B	4	5	1.34	99.48	TBL		FALSE
2008	B	4	6	1.71	99.00	BIS		FALSE
2008	B	4	7	2.90	98.95	BIS		FALSE
2008	B	4	8	3.66	98.97	BIS		FALSE
2008	B	4	9	3.84	98.88	BF		FALSE
2008	B	4	10	4.21	98.71	EWL		FALSE
2008	B	4	11	4.85	98.68	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	B	4	12	5.70	98.62	TW		FALSE
2008	B	4	13	6.31	98.66	BIS		FALSE
2008	B	4	14	6.64	98.70	EWR		FALSE
2008	B	4	15	7.16	99.22	BIS		FALSE
2008	B	4	16	7.35	99.50	BOT X4R		FALSE
2008	B	4	17	7.35	100.02	TOP X4R		FALSE
2008	B	5	1	0.00	100.00	TOP X5L	RB paralld to ground. REBAR 14" ABOVE GROUND AT END OF REBAR AT 50 DEGREE AN- GLE	FALSE
2008	B	5	2	0.00	99.57	BOT X5L		FALSE
2008	B	5	3	0.15	99.35	BIS		FALSE
2008	B	5	4	0.40	99.19	BIS		FALSE
2008	B	5	5	0.91	98.91	BIS		FALSE
2008	B	5	6	1.25	98.75	BIS		FALSE
2008	B	5	7	1.71	98.44	TOB		FALSE
2008	B	5	8	2.07	98.37	BIS		FALSE
2008	B	5	9	2.29	98.31	BIS		FALSE
2008	B	5	10	2.59	98.16	BF		FALSE
2008	B	5	11	2.80	98.05	BIS	ON ROCK	FALSE
2008	B	5	12	3.11	97.92	EW		FALSE
2008	B	5	13	3.54	97.79	BIS		FALSE
2008	B	5	14	3.96	97.79	BIS	on rock	FALSE
2008	B	5	15	4.02	97.68	TW		FALSE
2008	B	5	16	4.51	97.76	BIS		FALSE
2008	B	5	17	4.72	97.83	BIS		FALSE
2008	B	5	18	5.03	97.82	BIS	cross section through small log jam	FALSE
2008	B	5	19	5.24	98.42	BIS	on log	TRUE
2008	B	5	20	5.64	98.43	BIS	on log	TRUE
2008	B	5	21	6.00	98.06	BIS		FALSE
2008	B	5	22	6.34	97.98	BIS		FALSE
2008	B	5	23	6.59	97.99	EW		FALSE
2008	B	5	24	7.01	98.59	BIS		FALSE
2008	B	5	25	7.35	99.44	BIS		FALSE
2008	B	5	26	7.83	99.93	BOT X5R		FALSE
2008	B	5	27	7.83	100.07	TOP X5R		FALSE
2008	B	6	1	0.00	100.00	TOP X6L		FALSE
2008	B	6	2	0.00	99.95	BOT X6L		FALSE
2008	B	6	3	0.49	99.57	BIS		FALSE
2008	B	6	4	0.91	99.42	BIS		FALSE
2008	B	6	5	1.10	99.35	TOB		FALSE
2008	B	6	6	1.52	99.10	BIS		FALSE
2008	B	6	7	1.95	98.94	BIS		FALSE
2008	B	6	8	2.32	98.73	BIS		FALSE
2008	B	6	9	2.77	98.54	BIS		FALSE
2008	B	6	10	3.17	98.45	BIS	on rock	FALSE
2008	B	6	11	3.51	98.28	EW		FALSE
2008	B	6	12	3.60	98.28	TW		FALSE
2008	B	6	13	3.66	98.35	BIS		FALSE
2008	B	6	14	3.84	98.30	BIS		FALSE
2008	B	6	15	4.51	98.38	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	B	6	16	5.18	98.36	EW		FALSE
2008	B	6	17	5.46	98.63	BIS	on rock	TRUE
2008	B	6	18	5.61	98.55	BF		FALSE
2008	B	6	19	6.00	98.58	BIS		FALSE
2008	B	6	20	6.40	98.73	BIS		FALSE
2008	B	6	21	6.55	98.73	BIS		FALSE
2008	B	6	22	6.98	98.98	BIS		FALSE
2008	B	6	23	7.38	99.32	BIS		FALSE
2008	B	6	24	7.86	99.85	BOT X6R		FALSE
2008	B	6	25	7.86	99.99	TOP X6R		FALSE
2008	B	7	1	0.00	100.00	TOP X7L	top of rb bent in 6" from base	FALSE
2008	B	7	2	0.00	99.42	BOT X7L		FALSE
2008	B	7	3	0.43	99.18	BIS		FALSE
2008	B	7	4	0.88	99.04	TOB		FALSE
2008	B	7	5	1.28	98.76	BIS		FALSE
2008	B	7	6	1.83	98.44	BIS		FALSE
2008	B	7	7	2.26	98.34	BIS		FALSE
2008	B	7	8	2.65	98.25	BIS		FALSE
2008	B	7	9	3.11	98.13	BF		FALSE
2008	B	7	10	3.57	97.99	EW		FALSE
2008	B	7	11	3.81	97.92	BIS		FALSE
2008	B	7	12	3.96	97.89	TW		FALSE
2008	B	7	13	4.30	97.94	BIS		FALSE
2008	B	7	14	4.51	97.94	BIS		FALSE
2008	B	7	15	4.85	97.90	BIS		FALSE
2008	B	7	16	5.64	97.97	EW		FALSE
2008	B	7	17	6.04	98.06	BIS		FALSE
2008	B	7	18	6.64	98.39	BIS		FALSE
2008	B	7	19	7.04	98.74	TOB		FALSE
2008	B	7	20	7.35	98.93	BIS		FALSE
2008	B	7	21	7.86	99.20	BIS		FALSE
2008	B	7	22	8.35	99.27	BIS		FALSE
2008	B	7	23	8.93	99.45	BIS		FALSE
2008	B	7	24	9.27	99.55	BIS	Dist changed to 30.4-dp	FALSE
2008	B	7	25	9.72	99.75	BOT X7R		FALSE
2008	B	7	26	9.72	100.02	TOP X7R		FALSE
2008	B	8	1	0.00	100.00	TOP X8L	tape place 4" above rb base	FALSE
2008	B	8	2	0.00	99.55	BOT X8L		FALSE
2008	B	8	3	0.21	99.42	BIS		FALSE
2008	B	8	4	0.34	99.37	BIS	on log	FALSE
2008	B	8	5	0.58	99.31	TOB	on log	FALSE
2008	B	8	6	0.70	98.89	BF	overhanging log-bf hard to determine	FALSE
2008	B	8	7	1.19	98.86	BIS		FALSE
2008	B	8	8	1.40	98.85	BIS		FALSE
2008	B	8	9	1.65	98.82	BIS		FALSE
2008	B	8	10	1.89	98.79	EW		FALSE
2008	B	8	11	2.13	98.74	BIS	overhanging log blocking	FALSE
2008	B	8	12	2.90	98.70	TW	overhanging log blocking	FALSE
2008	B	8	13	3.20	98.74	EWR	overhanging log-not real waters edge	FALSE
2008	B	8	14	3.41	99.68	BIS	on log	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	B	8	15	3.75	99.57	BIS	on log	FALSE
2008	B	8	16	4.15	99.75	BIS	on log	FALSE
2008	B	8	17	4.48	99.69	BIS	on log	FALSE
2008	B	8	18	4.82	99.50	TOB		FALSE
2008	B	8	19	5.03	99.55	BIS		FALSE
2008	B	8	20	5.33	99.63	BOT X8R		FALSE
2008	B	8	21	5.33	99.82	TOP X8R		FALSE
2008	B	9	1	0.00	100.00	TOP X9L	rebar sideways. fixed	FALSE
2008	B	9	2	0.00	99.62	BOT X9L		FALSE
2008	B	9	3	0.30	99.48	TOB		FALSE
2008	B	9	4	0.79	97.46	EW		FALSE
2008	B	9	5	1.22	97.31	BIS		FALSE
2008	B	9	6	1.55	97.28	BIS		FALSE
2008	B	9	7	1.95	97.28	BIS		FALSE
2008	B	9	8	2.23	97.26	TW		FALSE
2008	B	9	9	2.59	97.27	EW		FALSE
2008	B	9	10	3.29	97.32	BIS		FALSE
2008	B	9	11	3.69	97.41	BIS		FALSE
2008	B	9	12	3.84	97.43	BF		FALSE
2008	B	9	13	4.05	97.56	BIS		FALSE
2008	B	9	14	4.27	97.73	TOB		FALSE
2008	B	9	15	4.60	97.85	BIS		FALSE
2008	B	9	16	5.12	98.07	BIS		FALSE
2008	B	9	17	5.58	98.10	BIS		FALSE
2008	B	9	18	6.10	98.20	BIS		FALSE
2008	B	9	19	6.98	98.31	BIS		FALSE
2008	B	9	20	7.53	98.50	BIS		FALSE
2008	B	9	21	8.23	98.62	BIS		FALSE
2008	B	9	22	9.14	98.56	BIS		FALSE
2008	B	9	23	10.03	98.49	BIS		FALSE
2008	B	9	24	10.85	98.59	BIS		FALSE
2008	B	9	25	11.55	98.83	BIS		FALSE
2008	B	9	26	12.28	99.24	BIS		FALSE
2008	B	9	27	12.92	99.45	BIS		FALSE
2008	B	9	28	13.90	99.93	BOT X9R		FALSE
2008	B	9	29	13.90	99.97	TOP X9R		FALSE
2008	B	10	1	0.00	100.00	TOP X10L		FALSE
2008	B	10	2	0.00	99.68	BOT X10L		FALSE
2008	B	10	3	0.21	99.54	TBL		FALSE
2008	B	10	4	0.49	97.74	BIS		FALSE
2008	B	10	5	0.64	97.67	BIS		FALSE
2008	B	10	6	0.91	97.45	BIS		FALSE
2008	B	10	7	1.19	97.39	BIS		FALSE
2008	B	10	8	1.40	97.35	EW		FALSE
2008	B	10	9	1.68	97.38	BIS		FALSE
2008	B	10	10	1.86	97.36	BIS		FALSE
2008	B	10	11	2.19	97.35	BIS		FALSE
2008	B	10	12	2.41	97.32	BIS		FALSE
2008	B	10	13	2.68	97.36	BIS		FALSE
2008	B	10	14	2.93	97.35	BIS		FALSE
2008	B	10	15	3.26	97.31	BIS		FALSE
2008	B	10	16	3.72	97.27	TW		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	B	10	17	4.08	97.31	BIS		FALSE
2008	B	10	18	4.18	97.35	EW		FALSE
2008	B	10	19	4.33	97.39	BIS		FALSE
2008	B	10	20	4.63	97.53	BF		FALSE
2008	B	10	21	4.72	97.61	BIS		FALSE
2008	B	10	22	5.00	97.66	BIS		FALSE
2008	B	10	23	5.40	97.72	BIS		FALSE
2008	B	10	24	5.70	97.89	BIS		FALSE
2008	B	10	25	5.97	98.06	BIS		FALSE
2008	B	10	26	6.40	98.24	BIS		FALSE
2008	B	10	27	6.64	98.30	TOB		FALSE
2008	B	10	28	7.96	98.30	BIS		FALSE
2008	B	10	29	8.50	98.25	BIS		FALSE
2008	B	10	30	9.24	98.32	BIS		FALSE
2008	B	10	31	9.97	98.23	BIS		FALSE
2008	B	10	32	10.64	98.18	BIS		FALSE
2008	B	10	33	11.49	98.27	BIS		FALSE
2008	B	10	34	12.38	98.25	BIS		FALSE
2008	B	10	35	12.98	98.40	BIS		FALSE
2008	B	10	36	13.53	98.65	BIS		FALSE
2008	B	10	37	14.17	98.99	BIS		FALSE
2008	B	10	38	14.48	99.25	BIS		FALSE
2008	B	10	39	15.09	99.61	BIS		FALSE
2008	B	10	40	15.42	99.88	TOP X10R		FALSE
2008	B	10	41	15.42	100.00	BOT X10R		FALSE
2008	C	1	1	0.00	100.00	TOP X1L		FALSE
2008	C	1	2	0.00	99.51	BOT X1L		FALSE
2008	C	1	3	0.27	99.38	BIS		TRUE
2008	C	1	4	0.61	99.46	BIS		TRUE
2008	C	1	5	1.01	99.47	BIS	on log	TRUE
2008	C	1	6	1.25	99.52	BIS		TRUE
2008	C	1	7	1.49	98.60	BIS		FALSE
2008	C	1	8	1.74	98.45	BIS		FALSE
2008	C	1	9	1.89	98.42	BIS		FALSE
2008	C	1	10	1.95	98.36	EW		FALSE
2008	C	1	11	2.23	98.32	BIS		FALSE
2008	C	1	12	2.38	98.29	TW		FALSE
2008	C	1	13	2.59	98.33	BIS		FALSE
2008	C	1	14	2.74	98.34	BIS		FALSE
2008	C	1	15	2.99	98.37	BIS		FALSE
2008	C	1	16	3.23	98.35	BIS		FALSE
2008	C	1	17	3.35	98.31	BIS		FALSE
2008	C	1	18	3.60	98.39	BIS		FALSE
2008	C	1	19	3.75	98.39	BIS		FALSE
2008	C	1	20	3.90	98.41	BIS		FALSE
2008	C	1	21	4.15	98.41	EW		FALSE
2008	C	1	22	4.39	98.44	BIS		FALSE
2008	C	1	23	4.69	98.47	BIS		FALSE
2008	C	1	24	4.91	98.50	BIS		FALSE
2008	C	1	25	5.09	98.50	BIS		FALSE
2008	C	1	26	5.27	98.55	BIS		FALSE
2008	C	1	27	5.58	98.59	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	C	1	28	5.82	98.62	BF		FALSE
2008	C	1	29	6.04	98.76	BIS	on log	TRUE
2008	C	1	30	6.28	98.70	BIS		FALSE
2008	C	1	31	6.49	98.74	BIS		FALSE
2008	C	1	32	6.77	98.74	BIS		FALSE
2008	C	1	33	7.07	98.80	BIS		FALSE
2008	C	1	34	7.28	98.82	BIS		FALSE
2008	C	1	35	7.62	98.86	BIS		FALSE
2008	C	1	36	7.89	98.90	BIS		FALSE
2008	C	1	37	8.20	99.02	BIS		FALSE
2008	C	1	38	8.47	99.07	BIS		FALSE
2008	C	1	39	9.30	99.09	BIS		FALSE
2008	C	1	40	10.15	99.01	BIS		FALSE
2008	C	1	41	10.94	99.05	BIS		FALSE
2008	C	1	42	11.64	99.29	BIS		FALSE
2008	C	1	43	12.19	99.52	BIS		FALSE
2008	C	1	44	12.62	99.69	BOT X1R		FALSE
2008	C	1	45	12.62	100.08	TOP X1R		FALSE
2008	C	2	1	0.00	100.00	TOP X2L		FALSE
2008	C	2	2	0.00	99.61	BOT X2L		FALSE
2008	C	2	3	0.40	99.38	BIS		FALSE
2008	C	2	4	0.67	99.11	BIS		FALSE
2008	C	2	5	0.79	99.09	BIS		FALSE
2008	C	2	6	1.04	98.91	BIS		FALSE
2008	C	2	7	2.13	98.83	BIS		FALSE
2008	C	2	8	2.50	98.75	BIS		FALSE
2008	C	2	9	2.93	98.65	BIS		FALSE
2008	C	2	10	3.63	98.52	BIS		FALSE
2008	C	2	11	4.24	98.37	BIS		FALSE
2008	C	2	12	4.66	98.32	BIS		FALSE
2008	C	2	13	4.91	98.18	TBL		FALSE
2008	C	2	14	5.27	98.07	BIS		FALSE
2008	C	2	15	5.64	97.95	BF		FALSE
2008	C	2	16	5.94	97.85	BIS		FALSE
2008	C	2	17	6.10	97.74	BIS		FALSE
2008	C	2	18	6.28	97.70	EW		FALSE
2008	C	2	19	6.64	97.67	BIS		FALSE
2008	C	2	20	6.83	97.69	BIS		FALSE
2008	C	2	21	7.56	97.63	BIS		FALSE
2008	C	2	22	7.71	97.60	TW		FALSE
2008	C	2	23	7.92	97.67	BIS		FALSE
2008	C	2	24	8.35	97.68	BIS		FALSE
2008	C	2	25	8.53	97.62	BIS		FALSE
2008	C	2	26	8.84	97.62	BIS		FALSE
2008	C	2	27	9.02	97.65	BIS		FALSE
2008	C	2	28	9.08	97.65	BIS		FALSE
2008	C	2	29	9.39	97.68	ER		FALSE
2008	C	2	30	9.75	97.80	BIS		FALSE
2008	C	2	31	10.03	97.97	BIS		FALSE
2008	C	2	32	10.21	98.13	TBR		FALSE
2008	C	2	33	10.85	98.26	BIS		FALSE
2008	C	2	34	12.04	98.21	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	C	2	35	12.28	98.24	BIS		FALSE
2008	C	2	36	12.41	98.33	BIS		FALSE
2008	C	2	37	12.47	99.57	BIS	on rw stump	FALSE
2008	C	2	38	12.62	99.58	BOT X2R	on rw stump	FALSE
2008	C	2	39	12.47	99.97	TOP X2R	on rw stump-rebar bent inwards	FALSE
2008	C	3	1	0.00	100.00	TOP X3L		FALSE
2008	C	3	2	0.00	99.62	BOT X3L		FALSE
2008	C	3	3	0.55	99.41	BIS		FALSE
2008	C	3	4	0.82	99.32	BIS		FALSE
2008	C	3	5	1.22	99.12	BIS		FALSE
2008	C	3	6	1.77	98.92	BIS		FALSE
2008	C	3	7	2.23	98.77	BIS		FALSE
2008	C	3	8	2.53	98.71	BIS		FALSE
2008	C	3	9	3.02	98.72	BIS		FALSE
2008	C	3	10	3.54	98.81	BIS		FALSE
2008	C	3	11	4.18	98.72	BIS		FALSE
2008	C	3	12	4.66	98.66	BIS		FALSE
2008	C	3	13	5.18	98.45	BIS		FALSE
2008	C	3	14	5.73	98.45	BIS		FALSE
2008	C	3	15	6.46	98.43	BIS		FALSE
2008	C	3	16	6.71	98.38	TBL		FALSE
2008	C	3	17	6.98	98.27	BF		FALSE
2008	C	3	18	7.19	98.21	BIS		FALSE
2008	C	3	19	7.47	98.09	EW		FALSE
2008	C	3	20	7.92	98.09	BIS		FALSE
2008	C	3	21	8.26	98.08	BIS		FALSE
2008	C	3	22	8.47	98.03	BIS		FALSE
2008	C	3	23	8.75	98.03	BIS		FALSE
2008	C	3	24	9.14	97.96	TW		FALSE
2008	C	3	25	9.48	97.99	BIS		FALSE
2008	C	3	26	9.91	98.06	EW		FALSE
2008	C	3	27	10.15	98.12	BIS		FALSE
2008	C	3	28	10.36	98.21	BIS		FALSE
2008	C	3	29	10.55	98.53	BIS		FALSE
2008	C	3	30	10.82	98.58	TBR		FALSE
2008	C	3	31	11.13	98.82	BIS		FALSE
2008	C	3	32	11.89	98.94	BIS		FALSE
2008	C	3	33	12.50	99.09	BIS		FALSE
2008	C	3	34	13.32	99.40	BIS		FALSE
2008	C	3	35	13.69	99.56	BIS		FALSE
2008	C	3	36	14.14	99.77	BOT X3R		FALSE
2008	C	3	37	14.14	100.01	TOPX3R		FALSE
2008	C	4	1	0.00	100.00	TOP X4L		FALSE
2008	C	4	2	0.00	99.69	BOT X4L		FALSE
2008	C	4	3	0.30	99.59	BID		FALSE
2008	C	4	4	0.52	99.43	BIS		FALSE
2008	C	4	5	0.76	99.27	BIS		FALSE
2008	C	4	6	0.91	99.51	BIS	on stump	TRUE
2008	C	4	7	1.22	99.21	BIS	on stump	TRUE
2008	C	4	8	1.62	98.63	BIS		FALSE
2008	C	4	9	1.89	98.64	BIS		FALSE
2008	C	4	10	2.23	98.47	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	C	4	11	2.93	98.44	BIS		FALSE
2008	C	4	12	3.57	98.51	BIS		FALSE
2008	C	4	13	3.99	98.59	BIS		FALSE
2008	C	4	14	4.42	98.52	BIS		FALSE
2008	C	4	15	4.91	98.37	BIS		FALSE
2008	C	4	16	5.52	98.35	BIS		FALSE
2008	C	4	17	6.07	98.31	BIS		FALSE
2008	C	4	18	6.37	98.31	TBL		FALSE
2008	C	4	19	6.64	98.24	BIS		FALSE
2008	C	4	20	6.92	98.30	BIS		FALSE
2008	C	4	21	7.22	97.96	EW		FALSE
2008	C	4	22	7.50	97.91	BIS		FALSE
2008	C	4	23	7.92	97.92	BIS		FALSE
2008	C	4	24	8.11	97.90	BIS		FALSE
2008	C	4	25	8.26	97.86	TW		FALSE
2008	C	4	26	8.81	97.89	BIS		FALSE
2008	C	4	27	8.96	97.94	EW		FALSE
2008	C	4	28	9.14	98.01	BIS		FALSE
2008	C	4	29	9.54	98.06	BF		FALSE
2008	C	4	30	9.72	98.14	BIS		FALSE
2008	C	4	31	10.00	98.35	BIS		FALSE
2008	C	4	32	10.36	98.88	TBR		FALSE
2008	C	4	33	10.82	98.91	BIS		FALSE
2008	C	4	34	11.25	98.99	BIS		FALSE
2008	C	4	35	11.67	99.27	BIS		FALSE
2008	C	4	36	11.98	99.69	BOT X4R		FALSE
2008	C	4	37	11.98	99.99	TOP X4R		FALSE
2008	C	5	1	0.00	100.00	TOP X5L		FALSE
2008	C	5	2	0.00	99.54	BOT X5L		FALSE
2008	C	5	3	0.30	99.45	BIS		FALSE
2008	C	5	4	0.76	99.22	BIS		FALSE
2008	C	5	5	1.34	99.03	BIS		FALSE
2008	C	5	6	1.83	98.97	BIS		FALSE
2008	C	5	7	2.26	98.77	BIS		FALSE
2008	C	5	8	2.62	98.69	BIS		FALSE
2008	C	5	9	3.08	98.65	BIS		FALSE
2008	C	5	10	3.96	98.53	BIS		FALSE
2008	C	5	11	4.88	98.45	BIS		FALSE
2008	C	5	12	5.70	98.42	TBL		FALSE
2008	C	5	13	5.88	98.23	BIS		FALSE
2008	C	5	14	6.31	98.09	BIS		FALSE
2008	C	5	15	6.92	97.91	EW		FALSE
2008	C	5	16	7.28	97.86	BIS		FALSE
2008	C	5	17	7.56	97.85	BIS		FALSE
2008	C	5	18	8.11	97.82	TW		FALSE
2008	C	5	19	8.41	97.85	BIS		FALSE
2008	C	5	20	8.53	97.94	EW		FALSE
2008	C	5	21	8.75	97.97	BIS		FALSE
2008	C	5	22	8.96	98.01	BIS		FALSE
2008	C	5	23	9.11	98.10	BIS		FALSE
2008	C	5	24	9.36	98.14	BIS		FALSE
2008	C	5	25	9.57	98.21	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	C	5	26	9.63	98.30	BIS		FALSE
2008	C	5	27	9.94	98.41	BIS		FALSE
2008	C	5	28	10.18	98.63	BIS		FALSE
2008	C	5	29	10.45	98.73	TBR		FALSE
2008	C	5	30	11.00	98.78	BIS		FALSE
2008	C	5	31	11.40	98.80	BIS		FALSE
2008	C	5	32	11.83	98.99	BIS		FALSE
2008	C	5	33	12.50	99.39	BIS		FALSE
2008	C	5	34	12.68	99.48	BOT X5R		FALSE
2008	C	5	35	12.59	99.99	TOPX5R	rebar bent inward	FALSE
2008	C	6	1	0.00	100.00	TOP X6L		FALSE
2008	C	6	2	0.00	99.71	BOT X6L		FALSE
2008	C	6	3	0.24	99.48	BIS		FALSE
2008	C	6	4	0.46	99.24	BIS		FALSE
2008	C	6	5	0.76	99.13	BIS		FALSE
2008	C	6	6	1.19	98.91	BIS		FALSE
2008	C	6	7	1.68	98.88	BIS	TRUE TOP OF BANK L ABOVE REBAR	FALSE
2008	C	6	8	2.16	98.78	BIS		FALSE
2008	C	6	9	2.56	98.54	BIS		FALSE
2008	C	6	10	2.83	98.44	BIS		FALSE
2008	C	6	11	3.14	98.59	BIS	ON LOG	TRUE
2008	C	6	12	3.35	98.20	BF		FALSE
2008	C	6	13	3.57	97.88	BIS		FALSE
2008	C	6	14	3.66	97.83	EW		FALSE
2008	C	6	15	3.93	97.87	BIS		FALSE
2008	C	6	16	4.42	97.90	BIS		FALSE
2008	C	6	17	5.03	97.93	BIS		FALSE
2008	C	6	18	5.55	97.91	BIS		FALSE
2008	C	6	19	6.07	97.91	BIS		FALSE
2008	C	6	20	6.55	97.84	BIS		FALSE
2008	C	6	21	6.98	97.85	BIS		FALSE
2008	C	6	22	7.44	97.81	TW		FALSE
2008	C	6	23	7.80	97.83	BIS		FALSE
2008	C	6	24	7.96	97.90	EW		FALSE
2008	C	6	25	8.26	97.98	BIS		FALSE
2008	C	6	26	8.50	98.04	BIS		FALSE
2008	C	6	27	8.81	98.10	BIS		FALSE
2008	C	6	28	9.42	98.62	BIS		FALSE
2008	C	6	29	10.09	98.76	TBR		FALSE
2008	C	6	30	10.49	98.92	BIS		FALSE
2008	C	6	31	10.91	99.22	BIS		FALSE
2008	C	6	32	11.25	99.35	BIS		FALSE
2008	C	6	33	11.70	99.10	BIS		FALSE
2008	C	6	34	12.25	99.19	BIS		FALSE
2008	C	6	35	12.65	99.38	BIS		FALSE
2008	C	6	36	13.02	99.76	BOT X6R		FALSE
2008	C	6	37	13.02	99.99	TOP X6R		FALSE
2008	C	7	1	0.00	100.00	TOP X7L		FALSE
2008	C	7	2	0.00	99.78	BOTX7L		FALSE
2008	C	7	3	0.21	99.43	BIS		FALSE
2008	C	7	4	0.58	99.13	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	C	7	5	1.19	98.94	BIS		FALSE
2008	C	7	6	1.71	98.90	BIS		FALSE
2008	C	7	7	1.98	98.91	BIS		FALSE
2008	C	7	8	2.35	98.50	BIS	EDGE OF SMALL BANK	FALSE
2008	C	7	9	2.80	98.32	BIS		FALSE
2008	C	7	10	3.02	97.93	BF		FALSE
2008	C	7	11	3.41	97.86	EW		FALSE
2008	C	7	12	3.66	98.03	BIS	ON ROCK	FALSE
2008	C	7	13	3.90	97.72	BIS		FALSE
2008	C	7	14	4.27	97.70	TW		FALSE
2008	C	7	15	4.51	97.78	BIS		FALSE
2008	C	7	16	4.88	97.78	EW		FALSE
2008	C	7	17	5.18	97.86	BIS		FALSE
2008	C	7	18	5.43	97.93	BIS		FALSE
2008	C	7	19	5.64	97.85	BIS		FALSE
2008	C	7	20	6.10	98.22	BIS		FALSE
2008	C	7	21	6.52	98.26	BIS		FALSE
2008	C	7	22	7.01	98.39	BIS		FALSE
2008	C	7	23	7.38	98.66	BIS	ON LOG	FALSE
2008	C	7	24	7.44	98.74	BIS		FALSE
2008	C	7	25	7.77	99.15	TBR		FALSE
2008	C	7	26	8.38	99.15	BIS		FALSE
2008	C	7	27	9.05	98.94	BIS		FALSE
2008	C	7	28	9.57	98.86	BIS		FALSE
2008	C	7	29	10.09	99.02	BIS	ON LOG	TRUE
2008	C	7	30	10.49	99.26	BIS	ON LOG	TRUE
2008	C	7	31	11.06	98.79	BIS		FALSE
2008	C	7	32	11.58	98.86	BIS		FALSE
2008	C	7	33	12.25	99.08	BIS		FALSE
2008	C	7	34	12.89	99.35	BIS		FALSE
2008	C	7	35	13.20	99.65	BIS		FALSE
2008	C	7	36	13.44	99.83	BOT X7R		FALSE
2008	C	7	37	13.44	100.03	TOP X7R		FALSE
2008	C	8	1	0.00	100.00	TOP X8L		FALSE
2008	C	8	2	0.00	99.56	BOT X8L		FALSE
2008	C	8	3	0.27	99.21	BIS		FALSE
2008	C	8	4	0.46	98.40	BIS		FALSE
2008	C	8	5	0.67	97.69	EW		FALSE
2008	C	8	6	1.04	97.64	TW		FALSE
2008	C	8	7	1.31	97.67	BIS		FALSE
2008	C	8	8	1.52	97.73	BIS		FALSE
2008	C	8	9	1.89	97.72	BIS		FALSE
2008	C	8	10	2.13	97.66	BIS		FALSE
2008	C	8	11	2.68	97.77	EW		FALSE
2008	C	8	12	2.93	97.79	BIS		FALSE
2008	C	8	13	3.35	97.84	BIS		FALSE
2008	C	8	14	3.81	97.94	BIS		FALSE
2008	C	8	15	4.15	98.16	BF		FALSE
2008	C	8	16	4.33	98.17	BIS	ON LOG-UNDER CUT	FALSE
2008	C	8	17	4.57	98.20	BIS	ON LOG	FALSE
2008	C	8	18	4.82	98.33	BIS		FALSE
2008	C	8	19	5.18	98.44	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	C	8	20	5.46	98.55	BIS		FALSE
2008	C	8	21	5.73	98.67	BIS		FALSE
2008	C	8	22	5.94	98.95	TBR		FALSE
2008	C	8	23	6.25	99.04	BIS		FALSE
2008	C	8	24	6.74	99.03	BIS		FALSE
2008	C	8	25	7.53	98.98	BIS		FALSE
2008	C	8	26	8.20	98.91	BIS		FALSE
2008	C	8	27	9.17	98.84	BIS		FALSE
2008	C	8	28	10.00	98.74	BIS		FALSE
2008	C	8	29	11.03	98.63	BIS		FALSE
2008	C	8	30	11.92	98.59	BIS		FALSE
2008	C	8	31	12.89	98.84	BIS		FALSE
2008	C	8	32	13.62	99.28	BIS		FALSE
2008	C	8	33	13.93	99.47	BIS		FALSE
2008	C	8	34	14.26	99.63	BOT X8R		FALSE
2008	C	8	35	14.26	99.99	TOP X8R		FALSE
2008	C	9	1	0.00	100.00	TOP X9L	REBAR BENT INWARD AT AP- PROX 45 DEG; .7 FT	FALSE
2008	C	9	2	0.21	99.72	BOTX9L		FALSE
2008	C	9	3	0.21	99.44	BIS		FALSE
2008	C	9	4	0.24	98.67	BIS		FALSE
2008	C	9	5	0.61	98.32	BIS		FALSE
2008	C	9	6	1.19	98.02	BIS		FALSE
2008	C	9	7	1.95	97.88	BIS		FALSE
2008	C	9	8	2.47	97.81	BF		FALSE
2008	C	9	9	2.96	97.78	BIS	ON ROCK	FALSE
2008	C	9	10	3.08	97.62	EW	TRUE EW UNDER ROCK	FALSE
2008	C	9	11	3.32	97.48	BIS		FALSE
2008	C	9	12	3.81	97.52	BIS		FALSE
2008	C	9	13	4.18	97.46	BIS		FALSE
2008	C	9	14	4.91	97.33	TW		FALSE
2008	C	9	15	5.43	97.43	EW		FALSE
2008	C	9	16	5.64	97.49	BIS		FALSE
2008	C	9	17	5.76	97.68	BIS		FALSE
2008	C	9	18	5.91	97.82	BIS		FALSE
2008	C	9	19	6.10	98.17	BIS		FALSE
2008	C	9	20	6.68	98.57	TBR		FALSE
2008	C	9	21	7.22	98.71	BIS		FALSE
2008	C	9	22	8.23	98.78	BIS		FALSE
2008	C	9	23	9.30	98.73	BIS		FALSE
2008	C	9	24	10.36	98.69	BIS		FALSE
2008	C	9	25	11.28	98.60	BIS	TBL ABOVE REBAR	FALSE
2008	C	9	26	11.89	98.61	BIS		FALSE
2008	C	9	27	12.95	98.52	BIS		FALSE
2008	C	9	28	13.78	98.57	BIS		FALSE
2008	C	9	29	14.87	98.75	BIS		FALSE
2008	C	9	30	15.24	98.96	BIS		FALSE
2008	C	9	31	15.58	99.09	BIS		FALSE
2008	C	9	32	16.00	99.47	BOT X9R	REBAR HORIZONTAL	FALSE
2008	C	9	33	15.82	99.51	TOP X9R		FALSE
2008	C	10	1	0.00	100.00	TOP X10L		FALSE
2008	C	10	2	0.00	99.76	BOT10L		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	C	10	3	0.12	99.74	BIS		FALSE
2008	C	10	4	0.49	99.42	BIS		FALSE
2008	C	10	5	0.88	99.19	BIS		FALSE
2008	C	10	6	1.52	98.90	BIS	ON BOULDER	FALSE
2008	C	10	7	2.23	98.52	BIS		FALSE
2008	C	10	8	2.99	98.10	BIS		FALSE
2008	C	10	9	3.44	98.21	BIS		FALSE
2008	C	10	10	4.18	97.97	BIS		FALSE
2008	C	10	11	4.48	97.97	BIS		FALSE
2008	C	10	12	4.79	98.11	BIS		FALSE
2008	C	10	13	5.15	97.63	BIS		FALSE
2008	C	10	14	5.49	97.48	EW		FALSE
2008	C	10	15	6.10	97.43	BIS		FALSE
2008	C	10	16	6.52	97.41	TW		FALSE
2008	C	10	17	6.95	97.45	BIS		FALSE
2008	C	10	18	7.32	97.54	BIS		FALSE
2008	C	10	19	8.08	97.52	EW		FALSE
2008	C	10	20	8.53	97.80	BF		FALSE
2008	C	10	21	9.14	97.85	BIS		FALSE
2008	C	10	22	10.18	97.94	BIS		FALSE
2008	C	10	23	11.28	98.21	BIS		FALSE
2008	C	10	24	11.49	98.55	BIS		FALSE
2008	C	10	25	12.86	98.78	BIS		FALSE
2008	C	10	26	14.02	98.81	BIS		FALSE
2008	C	10	27	15.24	98.82	BIS		FALSE
2008	C	10	28	15.85	98.90	BIS		FALSE
2008	C	10	29	16.19	99.01	BIS		FALSE
2008	C	10	30	16.55	99.31	BIS		FALSE
2008	C	10	31	16.58	99.87	BIS		FALSE
2008	C	10	32	16.86	99.91	BOT X10R		FALSE
2008	C	10	33	16.86	100.00	TOP X10R		FALSE
2008	D	1	1	0.00	100.00	TOP X1L		FALSE
2008	D	1	2	0.00	99.81	BOT X1L		FALSE
2008	D	1	3	0.58	99.73	TBL		FALSE
2008	D	1	4	1.07	98.62	BIS		FALSE
2008	D	1	5	1.49	98.21	BIS		FALSE
2008	D	1	6	1.80	98.06	BFL		FALSE
2008	D	1	7	2.13	97.94	BIS		FALSE
2008	D	1	8	2.41	97.99	BIS		FALSE
2008	D	1	9	2.90	97.88	EW		FALSE
2008	D	1	10	3.32	97.78	TW	TRUE TW UNDER ROCK	FALSE
2008	D	1	11	3.54	97.80	BIS	ON ROCK	FALSE
2008	D	1	12	3.66	97.86	EW	ON ROCK; TRUE EW UNDER ROCK	FALSE
2008	D	1	13	3.78	98.02	BIS	ON ROCK	FALSE
2008	D	1	14	4.24	98.11	BIS	ON ROCK	FALSE
2008	D	1	15	4.36	98.01	BIS		FALSE
2008	D	1	16	5.03	98.20	BIS		FALSE
2008	D	1	17	5.40	98.34	BIS		FALSE
2008	D	1	18	5.70	98.31	BIS		FALSE
2008	D	1	19	6.28	98.54	BIS		FALSE
2008	D	1	20	6.34	98.54	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	D	1	21	6.80	98.78	BIS		FALSE
2008	D	1	22	7.25	99.07	TBR		FALSE
2008	D	1	23	7.99	99.24	BIS		FALSE
2008	D	1	24	8.29	99.58	BIS		FALSE
2008	D	1	25	9.14	99.61	BIS		FALSE
2008	D	1	26	9.54	99.66	BIS		FALSE
2008	D	1	27	9.91	99.80	BIS		FALSE
2008	D	1	28	10.33	100.07	BIS		FALSE
2008	D	1	29	10.88	100.94	BIS		FALSE
2008	D	1	30	11.31	101.23	BOT X1R		FALSE
2008	D	1	31	11.31	101.58	TOP X1R		FALSE
2008	D	2	1	0.00	100.00	TOP X2L		FALSE
2008	D	2	2	0.00	99.73	BOT X2L		FALSE
2008	D	2	3	0.30	99.68	BIS		FALSE
2008	D	2	4	0.52	99.68	TBL		FALSE
2008	D	2	5	0.64	99.61	BIS		FALSE
2008	D	2	6	0.73	99.38	BIS		FALSE
2008	D	2	7	0.98	99.19	BIS		FALSE
2008	D	2	8	1.31	99.01	BIS		FALSE
2008	D	2	9	1.55	98.70	BIS		FALSE
2008	D	2	10	1.95	98.66	BIS		FALSE
2008	D	2	11	2.47	98.53	BIS		FALSE
2008	D	2	12	2.65	98.50	EWL		FALSE
2008	D	2	13	2.83	98.46	BIS		FALSE
2008	D	2	14	3.17	98.44	BIS		FALSE
2008	D	2	15	3.38	98.43	BIS		FALSE
2008	D	2	16	3.66	98.43	BIS		FALSE
2008	D	2	17	3.96	98.40	BIS		FALSE
2008	D	2	18	4.15	98.39	TW		FALSE
2008	D	2	19	4.48	98.42	BIS		FALSE
2008	D	2	20	4.85	98.51	BIS		FALSE
2008	D	2	21	5.12	98.64	BF		FALSE
2008	D	2	22	5.46	98.74	BIS		FALSE
2008	D	2	23	5.79	98.93	BIS		FALSE
2008	D	2	24	6.22	98.99	BIS		FALSE
2008	D	2	25	6.40	99.15	BIS		FALSE
2008	D	2	26	6.89	99.28	BIS		FALSE
2008	D	2	27	7.35	99.53	TBR		FALSE
2008	D	2	28	7.77	99.66	BIS		FALSE
2008	D	2	29	8.17	99.67	BIS		FALSE
2008	D	2	30	8.50	99.70	BIS		FALSE
2008	D	2	31	8.90	99.75	BIS		FALSE
2008	D	2	32	9.33	99.80	BOT X2R		FALSE
2008	D	2	33	9.33	100.00	TOP X2R		FALSE
2008	D	3	1	0.00	100.00	TOP X3L		FALSE
2008	D	3	2	0.00	99.80	BOT X3L		FALSE
2008	D	3	3	1.07	99.74	TBL		FALSE
2008	D	3	4	1.28	99.58	BIS		FALSE
2008	D	3	5	1.40	99.22	BIS		FALSE
2008	D	3	6	1.92	98.75	BF		FALSE
2008	D	3	7	3.08	98.55	BIS		FALSE
2008	D	3	8	3.41	98.52	EW		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	D	3	9	3.87	98.40	BIS		FALSE
2008	D	3	10	4.15	98.36	BIS		FALSE
2008	D	3	11	4.24	98.35	TW		FALSE
2008	D	3	12	4.66	98.52	EW		FALSE
2008	D	3	13	5.03	98.99	BIS		FALSE
2008	D	3	14	5.43	99.19	BIS		FALSE
2008	D	3	15	6.04	99.82	BIS		FALSE
2008	D	3	16	6.46	99.91	BIS		FALSE
2008	D	3	17	7.01	99.76	BIS		FALSE
2008	D	3	18	7.47	99.19	BIS		FALSE
2008	D	3	19	8.23	99.24	BIS		FALSE
2008	D	3	20	9.45	99.32	BIS		FALSE
2008	D	3	21	10.55	99.50	BIS		FALSE
2008	D	3	22	10.91	99.82	BIS		FALSE
2008	D	3	23	11.03	99.91	BOT X3R		FALSE
2008	D	3	24	11.03	100.00	TOP X3R		FALSE
2008	D	4	1	0.15	100.00	TOP X4L	ON STUMP; TAPE STATED AT .3'	FALSE
2008	D	4	2	0.09	99.31	BOT X4L	ON STUMP	FALSE
2008	D	4	3	0.52	98.24	BIS	BANK IS UNDERCUT	FALSE
2008	D	4	4	0.85	97.84	BIS		FALSE
2008	D	4	5	1.22	96.68	BIS	ON ROCK	FALSE
2008	D	4	6	1.46	96.72	BIS	ON ROCK	FALSE
2008	D	4	7	1.62	96.52	EW		FALSE
2008	D	4	8	1.80	96.53	BIS		FALSE
2008	D	4	9	1.98	96.45	BIS		FALSE
2008	D	4	10	2.13	96.42	BIS		FALSE
2008	D	4	11	2.38	96.55	BIS		FALSE
2008	D	4	12	2.74	96.48	BIS		FALSE
2008	D	4	13	2.93	96.41	TW		FALSE
2008	D	4	14	3.14	96.53	EW		FALSE
2008	D	4	15	3.35	96.59	BIS		FALSE
2008	D	4	16	3.66	96.64	BIS		FALSE
2008	D	4	17	3.99	96.78	BF		FALSE
2008	D	4	18	4.27	96.88	BIS		FALSE
2008	D	4	19	4.57	96.97	BIS		FALSE
2008	D	4	20	5.03	97.06	BIS		FALSE
2008	D	4	21	5.30	97.11	BIS		FALSE
2008	D	4	22	5.73	97.27	BIS		FALSE
2008	D	4	23	6.28	97.38	BIS		FALSE
2008	D	4	24	7.10	97.33	BIS		FALSE
2008	D	4	25	7.74	97.34	BIS		FALSE
2008	D	4	26	8.41	97.67	BIS		FALSE
2008	D	4	27	9.11	97.86	BIS		FALSE
2008	D	4	28	9.48	98.00	BIS		FALSE
2008	D	4	29	9.75	98.19	TBR		FALSE
2008	D	4	30	11.09	98.24	BIS		FALSE
2008	D	4	31	11.80	98.48	BIS		FALSE
2008	D	4	32	12.28	99.01	BIS		FALSE
2008	D	4	33	12.62	99.20	BIS		FALSE
2008	D	4	34	12.95	99.69	BIS		FALSE
2008	D	4	35	13.41	100.16	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	D	4	36	13.90	100.58	BOT X4R		FALSE
2008	D	4	37	13.90	101.00	TOP X4R		FALSE
2008	D	5	1	0.00	100.00	TOP X5L		FALSE
2008	D	5	2	0.00	99.64	BOT X5L		FALSE
2008	D	5	3	0.24	99.57	BIS		FALSE
2008	D	5	4	0.30	99.51	TBL		FALSE
2008	D	5	5	0.43	99.36	BIS		FALSE
2008	D	5	6	0.61	99.18	BIS		FALSE
2008	D	5	7	0.85	98.45	BIS		FALSE
2008	D	5	8	1.28	98.37	BIS		FALSE
2008	D	5	9	2.13	98.28	BIS		FALSE
2008	D	5	10	2.44	98.25	BIS		FALSE
2008	D	5	11	2.80	98.15	BIS		FALSE
2008	D	5	12	3.32	98.09	BIS		FALSE
2008	D	5	13	3.63	98.03	BIS		FALSE
2008	D	5	14	3.81	98.05	BIS		FALSE
2008	D	5	15	4.11	97.98	EW		FALSE
2008	D	5	16	4.30	97.92	TW		FALSE
2008	D	5	17	4.39	97.93	BIS		FALSE
2008	D	5	18	4.51	98.02	BIS		FALSE
2008	D	5	19	4.63	97.99	BIS		FALSE
2008	D	5	20	4.88	97.97	EW		FALSE
2008	D	5	21	5.06	98.01	BIS		FALSE
2008	D	5	22	5.24	98.09	BIS		FALSE
2008	D	5	23	5.46	98.13	BIS		FALSE
2008	D	5	24	5.61	98.24	BF		FALSE
2008	D	5	25	5.88	98.35	BIS		FALSE
2008	D	5	26	6.19	98.46	BIS		FALSE
2008	D	5	27	6.68	98.63	BIS		FALSE
2008	D	5	28	7.28	98.87	BIS		FALSE
2008	D	5	29	7.89	99.03	BIS		FALSE
2008	D	5	30	8.05	99.45	TBR		FALSE
2008	D	5	31	8.26	99.55	BIS		FALSE
2008	D	5	32	8.53	99.59	BIS		FALSE
2008	D	5	33	9.14	99.69	BIS		FALSE
2008	D	5	34	10.06	99.65	BIS		FALSE
2008	D	5	35	10.91	99.66	BOT X5R		FALSE
2008	D	5	36	10.91	100.02	TOP X5R		FALSE
2008	D	6	1	0.00	100.00	TOP X6L		FALSE
2008	D	6	2	0.00	99.83	BOT X6L		FALSE
2008	D	6	3	0.24	99.78	BIS	log supported bank	FALSE
2008	D	6	4	0.40	99.68	BIS		FALSE
2008	D	6	5	0.61	99.60	BIS		FALSE
2008	D	6	6	0.70	99.60	TBL		FALSE
2008	D	6	7	0.98	98.36	BIS		FALSE
2008	D	6	8	1.13	98.26	BIS		FALSE
2008	D	6	9	1.31	98.24	BIS		FALSE
2008	D	6	10	1.52	98.17	BIS		FALSE
2008	D	6	11	1.92	98.13	BIS		FALSE
2008	D	6	12	2.38	98.08	BIS		FALSE
2008	D	6	13	2.74	98.03	BIS		FALSE
2008	D	6	14	2.93	97.92	BF		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	D	6	15	3.14	97.85	BIS		FALSE
2008	D	6	16	3.29	97.74	BIS		FALSE
2008	D	6	17	3.54	97.67	BIS		FALSE
2008	D	6	18	3.75	97.55	EW		FALSE
2008	D	6	19	4.11	97.53	BIS		FALSE
2008	D	6	20	4.30	97.52	BIS		FALSE
2008	D	6	21	4.66	97.55	BIS		FALSE
2008	D	6	22	4.85	97.52	BIS		FALSE
2008	D	6	23	5.09	97.56	BIS		FALSE
2008	D	6	24	5.36	97.53	BIS		FALSE
2008	D	6	25	5.55	97.49	TW		FALSE
2008	D	6	26	5.76	97.51	BIS		FALSE
2008	D	6	27	5.88	97.50	BIS		FALSE
2008	D	6	28	6.04	97.53	BIS		FALSE
2008	D	6	29	6.19	97.55	BIS		FALSE
2008	D	6	30	6.40	97.79	BIS	on rock	FALSE
2008	D	6	31	6.68	97.61	EW		FALSE
2008	D	6	32	6.86	97.72	BIS		FALSE
2008	D	6	33	7.10	97.98	BIS		FALSE
2008	D	6	34	7.28	98.15	BIS		FALSE
2008	D	6	35	7.50	98.45	BIS		FALSE
2008	D	6	36	7.65	98.57	BIS		FALSE
2008	D	6	37	7.74	98.66	BIS		FALSE
2008	D	6	38	7.92	98.96	BIS		FALSE
2008	D	6	39	8.14	99.15	BIS		FALSE
2008	D	6	40	8.29	99.21	BIS		FALSE
2008	D	6	41	8.47	99.35	TBR		FALSE
2008	D	6	42	8.84	99.36	BIS		FALSE
2008	D	6	43	9.27	99.44	BIS		FALSE
2008	D	6	44	9.63	99.60	BIS		FALSE
2008	D	6	45	9.94	99.71	BOT X6R		FALSE
2008	D	6	46	9.94	100.03	TOP X6R		FALSE
2008	D	7	1	0.00	100.00	TOP X7L		FALSE
2008	D	7	2	0.00	99.79	BOT X7L		FALSE
2008	D	7	3	0.18	99.66	BIS		FALSE
2008	D	7	4	0.34	99.07	BIS		FALSE
2008	D	7	5	0.46	98.93	BIS		FALSE
2008	D	7	6	0.61	99.74	BIS	ON LOG	TRUE
2008	D	7	7	0.79	99.71	TBL	ON LOG	TRUE
2008	D	7	8	1.07	99.55	BIS	ON LOG	TRUE
2008	D	7	9	1.16	98.52	BIS		FALSE
2008	D	7	10	1.37	98.49	BIS		FALSE
2008	D	7	11	1.68	98.44	BIS		FALSE
2008	D	7	12	1.92	98.34	BIS		FALSE
2008	D	7	13	2.04	98.20	BF		FALSE
2008	D	7	14	2.26	98.09	BIS		FALSE
2008	D	7	15	2.50	97.92	BIS		FALSE
2008	D	7	16	2.77	97.86	BIS		FALSE
2008	D	7	17	3.02	97.83	EW		FALSE
2008	D	7	18	3.23	97.81	BIS		FALSE
2008	D	7	19	3.51	97.74	BIS		FALSE
2008	D	7	20	3.66	97.71	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	D	7	21	3.81	97.69	TW		FALSE
2008	D	7	22	3.96	97.73	BIS		FALSE
2008	D	7	23	4.15	97.77	BIS		FALSE
2008	D	7	24	4.33	97.79	EW	TRUE EW UNDER LOG	FALSE
2008	D	7	25	4.45	98.31	BIS	ON LOG	TRUE
2008	D	7	26	4.72	98.29	BIS	ON LOG	TRUE
2008	D	7	27	5.09	98.23	BIS	ON LOG	TRUE
2008	D	7	28	5.30	98.20	BIS	ON LOG	TRUE
2008	D	7	29	5.61	98.09	BIS		FALSE
2008	D	7	30	5.79	98.11	BIS		FALSE
2008	D	7	31	5.94	98.08	BIS		FALSE
2008	D	7	32	6.10	98.02	BIS		FALSE
2008	D	7	33	6.19	98.52	BIS		FALSE
2008	D	7	34	6.40	98.84	BIS		FALSE
2008	D	7	35	6.61	99.10	BIS		FALSE
2008	D	7	36	6.83	99.21	BIS		FALSE
2008	D	7	37	7.01	99.33	BIS		FALSE
2008	D	7	38	7.22	99.30	BIS		FALSE
2008	D	7	39	7.38	99.55	TBR		FALSE
2008	D	7	40	7.50	99.73	BIS		FALSE
2008	D	7	41	7.65	99.80	BOT X7R		FALSE
2008	D	7	42	7.65	99.97	TOP X7R		FALSE
2008	D	8	1	0.12	100.00	TOP X8L	BENT IN WARD	FALSE
2008	D	8	2	0.00	99.76	BOT X8L		FALSE
2008	D	8	3	0.73	99.43	BIS		FALSE
2008	D	8	4	0.94	99.27	BIS		FALSE
2008	D	8	5	1.19	99.04	BIS		FALSE
2008	D	8	6	1.52	98.06	BIS		FALSE
2008	D	8	7	1.86	97.90	BIS		FALSE
2008	D	8	8	2.23	97.82	EW		FALSE
2008	D	8	9	2.38	97.79	BIS		FALSE
2008	D	8	10	2.62	97.78	TW		FALSE
2008	D	8	11	2.90	97.82	BIS		FALSE
2008	D	8	12	3.20	97.81	BIS		FALSE
2008	D	8	13	3.57	97.79	EW		FALSE
2008	D	8	14	3.78	97.77	BIS		FALSE
2008	D	8	15	4.05	97.81	BIS		FALSE
2008	D	8	16	4.30	97.84	BIS		FALSE
2008	D	8	17	4.63	97.91	BIS		FALSE
2008	D	8	18	4.94	97.99	BF		FALSE
2008	D	8	19	5.36	98.15	BIS		FALSE
2008	D	8	20	5.64	98.20	BIS		FALSE
2008	D	8	21	6.04	98.39	BIS		FALSE
2008	D	8	22	6.19	98.52	BIS		FALSE
2008	D	8	23	6.31	98.68	BIS		FALSE
2008	D	8	24	6.64	99.74	BIS	ON STUMP	FALSE
2008	D	8	25	6.95	99.79	BOT X8R		FALSE
2008	D	8	26	6.95	100.03	TOP X8R		FALSE
2008	D	9	1	0.18	100.00	TOP X9L	BENT INWARD	FALSE
2008	D	9	2	0.00	99.80	BOT X9L	TOP OF BANK ABOVE REBAR	FALSE
2008	D	9	3	0.18	99.55	BIS		FALSE
2008	D	9	4	0.30	99.34	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	D	9	5	0.49	99.07	BIS		FALSE
2008	D	9	6	0.70	98.92	BIS		FALSE
2008	D	9	7	0.88	98.82	BIS		FALSE
2008	D	9	8	1.19	98.69	BF		FALSE
2008	D	9	9	1.58	98.52	EW		FALSE
2008	D	9	10	1.80	98.58	BIS		FALSE
2008	D	9	11	2.26	98.63	BIS		FALSE
2008	D	9	12	2.74	98.59	BIS	ON LOG	FALSE
2008	D	9	13	3.17	98.42	TW		FALSE
2008	D	9	14	3.38	98.45	BIS		FALSE
2008	D	9	15	3.54	98.44	BIS		FALSE
2008	D	9	16	3.63	98.43	BIS		FALSE
2008	D	9	17	3.84	98.46	EW	TRUE EW UNDER ROCK	FALSE
2008	D	9	18	4.05	98.69	BIS	ON ROCK	TRUE
2008	D	9	19	4.24	98.57	BIS		FALSE
2008	D	9	20	4.51	98.57	BIS		FALSE
2008	D	9	21	4.79	98.73	BIS		FALSE
2008	D	9	22	4.94	98.86	BIS		FALSE
2008	D	9	23	5.24	98.91	BIS		FALSE
2008	D	9	24	5.58	98.94	BIS		FALSE
2008	D	9	25	5.91	98.98	BIS		FALSE
2008	D	9	26	6.31	99.03	BIS		FALSE
2008	D	9	27	6.77	99.04	BIS		FALSE
2008	D	9	28	7.07	99.16	BIS		FALSE
2008	D	9	29	7.32	99.38	BIS		FALSE
2008	D	9	30	7.59	99.73	BOT X9R		FALSE
2008	D	9	31	7.41	100.02	TOP X9R	BENT INWARD	FALSE
2008	D	10	1	0.00	100.00	TOP X10L	top of bank above rebar	FALSE
2008	D	10	2	0.00	99.68	BOT X10L		FALSE
2008	D	10	3	0.24	99.56	BIS		FALSE
2008	D	10	4	0.37	99.40	BIS		FALSE
2008	D	10	5	0.49	99.23	BIS		FALSE
2008	D	10	6	0.61	99.13	BIS		FALSE
2008	D	10	7	0.88	98.97	BIS		FALSE
2008	D	10	8	1.13	98.93	BIS		FALSE
2008	D	10	9	1.49	98.76	BIS		FALSE
2008	D	10	10	1.74	98.49	BF		FALSE
2008	D	10	11	2.10	98.42	BIS		FALSE
2008	D	10	12	2.38	98.33	BIS		FALSE
2008	D	10	13	2.65	98.31	BIS		FALSE
2008	D	10	14	2.99	98.29	BIS	on rock	FALSE
2008	D	10	15	3.05	98.25	EW		FALSE
2008	D	10	16	3.41	98.20	BIS		FALSE
2008	D	10	17	3.60	98.12	BIS		FALSE
2008	D	10	18	3.78	98.08	TW		FALSE
2008	D	10	19	3.96	98.15	BIS		FALSE
2008	D	10	20	4.27	98.11	BIS		FALSE
2008	D	10	21	4.48	98.16	BIS		FALSE
2008	D	10	22	4.69	98.19	BIS		FALSE
2008	D	10	23	4.97	98.25	EW		FALSE
2008	D	10	24	5.36	98.36	BIS		FALSE
2008	D	10	25	5.55	98.31	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	D	10	26	5.76	98.50	BIS	on rock	FALSE
2008	D	10	27	6.07	98.47	BIS		FALSE
2008	D	10	28	6.43	98.58	BIS		FALSE
2008	D	10	29	6.71	98.81	BIS		FALSE
2008	D	10	30	6.95	98.92	BIS		FALSE
2008	D	10	31	7.13	99.52	BIS		FALSE
2008	D	10	32	7.47	99.79	BOT X10R		FALSE
2008	D	10	33	7.47	99.99	TOP X10R	top of bank above rebar	FALSE
2008	E	1	1	0.00	100.00	TOP X1L	TB ABOUVE REBAR	FALSE
2008	E	1	2	0.00	99.62	BOT X1L		FALSE
2008	E	1	3	0.46	99.37	BIS		FALSE
2008	E	1	4	1.10	99.10	BIS		FALSE
2008	E	1	5	1.68	98.95	BIS		FALSE
2008	E	1	6	2.56	98.84	BIS		FALSE
2008	E	1	7	3.32	98.77	BIS		FALSE
2008	E	1	8	4.05	98.67	BIS		FALSE
2008	E	1	9	4.54	98.50	BIS		FALSE
2008	E	1	10	5.24	98.33	BF		FALSE
2008	E	1	11	5.73	98.21	BIS		FALSE
2008	E	1	12	5.97	98.24	BIS	ON ROCK/ TRUE EDGE OF WATER	FALSE
2008	E	1	13	6.16	98.06	EW/TW		FALSE
2008	E	1	14	6.34	98.11	BIS	ON ROCK/ TRUE EDGE OF WATER	FALSE
2008	E	1	15	6.58	98.07	BIS		FALSE
2008	E	1	16	6.95	98.13	EW/TW	ROOT OVERHANG	FALSE
2008	E	1	17	7.19	99.68	BIS		FALSE
2008	E	1	18	7.47	99.81	BOT X1R		FALSE
2008	E	1	19	7.47	99.88	TOP X1R		FALSE
2008	E	2	1	0.00	100.00	TOP X2L		FALSE
2008	E	2	2	0.00	99.42	BOT X2L		FALSE
2008	E	2	3	0.43	99.18	TBL		FALSE
2008	E	2	4	0.79	98.95	BIS		FALSE
2008	E	2	5	1.46	98.55	BF		FALSE
2008	E	2	6	1.89	98.42	BIS		FALSE
2008	E	2	7	2.07	98.51	BIS	ON ROCK/TRUE EW	FALSE
2008	E	2	8	2.13	98.30	EW		FALSE
2008	E	2	9	2.19	98.33	BIS		FALSE
2008	E	2	10	2.23	98.43	BIS	ON ROCK	FALSE
2008	E	2	11	2.77	98.32	BIS	ON ROCK	FALSE
2008	E	2	12	2.87	98.26	TW		FALSE
2008	E	2	13	3.29	98.34	EW		FALSE
2008	E	2	14	3.57	98.36	BIS		FALSE
2008	E	2	15	3.63	98.60	BIS		FALSE
2008	E	2	16	3.93	98.72	BIS	ON ROCK	FALSE
2008	E	2	17	4.02	98.61	BIS	ON ROCK	FALSE
2008	E	2	18	4.27	98.62	BIS		FALSE
2008	E	2	19	4.75	99.09	BIS		FALSE
2008	E	2	20	5.09	99.34	TBR		FALSE
2008	E	2	21	5.61	99.42	BIS		FALSE
2008	E	2	22	5.82	99.57	BIS		FALSE
2008	E	2	23	5.97	99.62	BOT X2R		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	E	2	24	5.97	100.01	TOP X2R		FALSE
2008	E	3	1	0.00	100.00	TOP X3L		FALSE
2008	E	3	2	0.00	99.52	BOT X3L		FALSE
2008	E	3	3	0.40	99.22	TBL		FALSE
2008	E	3	4	0.79	98.90	BIS		FALSE
2008	E	3	5	1.13	98.69	BIS		FALSE
2008	E	3	6	1.83	98.36	BIS		FALSE
2008	E	3	7	1.95	98.05	EW		FALSE
2008	E	3	8	2.10	97.97	BIS	ON ROCK	FALSE
2008	E	3	9	2.32	97.96	BIS	ON ROCK	FALSE
2008	E	3	10	2.93	98.16	BIS	ON ROCK	FALSE
2008	E	3	11	3.14	97.87	BIS		FALSE
2008	E	3	12	3.57	97.75	TW		FALSE
2008	E	3	13	3.78	97.84	EW	TRUE EW UNDER ROCK	FALSE
2008	E	3	14	4.08	98.25	BIS	ON ROCK	FALSE
2008	E	3	15	4.18	98.02	BF		FALSE
2008	E	3	16	4.57	98.28	BIS		FALSE
2008	E	3	17	4.79	98.42	BIS		FALSE
2008	E	3	18	5.03	98.45	BIS		FALSE
2008	E	3	19	5.30	98.49	BIS		FALSE
2008	E	3	20	5.49	98.89	TBR		FALSE
2008	E	3	21	5.97	99.05	BIS		FALSE
2008	E	3	22	7.16	99.20	BIS		FALSE
2008	E	3	23	7.32	99.53	BOT X3R		FALSE
2008	E	3	24	7.32	100.01	TOP X3R		FALSE
2008	E	4	1	0.00	100.00	TOP X4L		FALSE
2008	E	4	2	0.00	99.77	BOT X4L		FALSE
2008	E	4	3	0.37	99.50	BIS		FALSE
2008	E	4	4	0.61	99.44	TBL		FALSE
2008	E	4	5	0.70	99.13	BIS		FALSE
2008	E	4	6	1.01	99.03	BIS		FALSE
2008	E	4	7	1.10	98.90	BIS		FALSE
2008	E	4	8	1.62	98.93	BIS	ON ROCK	FALSE
2008	E	4	9	1.98	98.70	EW		FALSE
2008	E	4	10	2.62	98.58	BIS		FALSE
2008	E	4	11	2.90	98.61	BIS		FALSE
2008	E	4	12	3.11	98.58	TW		FALSE
2008	E	4	13	3.60	98.84	BIS	ON ROCK	FALSE
2008	E	4	14	3.96	98.63	BIS	ON ROCK	FALSE
2008	E	4	15	4.39	98.76	BIS	ON ROCK	FALSE
2008	E	4	16	4.72	98.60	EW		FALSE
2008	E	4	17	5.12	98.86	BIS	ON ROCK	FALSE
2008	E	4	18	5.30	98.70	BF		FALSE
2008	E	4	19	5.70	98.76	BIS		FALSE
2008	E	4	20	5.94	99.47	TBL		FALSE
2008	E	4	21	6.40	99.60	BIS		FALSE
2008	E	4	22	7.16	99.70	BIS		FALSE
2008	E	4	23	7.68	99.81	BOT X4R		FALSE
2008	E	4	24	7.68	100.03	TOP X4R		FALSE
2008	E	5	1	0.00	100.00	TOP X5L	UNABLE TO DETERMINE BF	FALSE
2008	E	5	2	0.00	99.73	BOT X5L		FALSE
2008	E	5	3	0.46	99.62	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	E	5	4	0.88	99.45	TBL		FALSE
2008	E	5	5	1.19	99.22	BIS		FALSE
2008	E	5	6	1.55	98.93	BIS		FALSE
2008	E	5	7	2.19	98.87	BIS		FALSE
2008	E	5	8	2.38	98.81	BIS		FALSE
2008	E	5	9	2.62	98.66	EW		FALSE
2008	E	5	10	2.90	98.64	TW		FALSE
2008	E	5	11	3.11	98.64	BIS		FALSE
2008	E	5	12	3.41	98.69	BIS		FALSE
2008	E	5	13	3.57	98.66	BIS		FALSE
2008	E	5	14	3.78	98.66	BIS		FALSE
2008	E	5	15	4.08	98.73	BIS	ON ROCK	FALSE
2008	E	5	16	4.24	98.76	EW	TRUE EW UNDER ROCK	FALSE
2008	E	5	17	4.39	99.01	BIS	ON ROCK	FALSE
2008	E	5	18	4.57	98.99	BIS	ON ROCK	FALSE
2008	E	5	19	4.63	99.13	BIS	ON ROCK	FALSE
2008	E	5	20	4.91	99.22	BIS	ON ROCK	FALSE
2008	E	5	21	5.24	99.26	BIS	ON ROCK	FALSE
2008	E	5	22	5.49	99.69	TBR		FALSE
2008	E	5	23	5.85	99.79	BIS		FALSE
2008	E	5	24	6.55	99.87	BIS		FALSE
2008	E	5	25	7.25	99.92	BIS		FALSE
2008	E	5	26	7.86	99.90	BOT X5R		FALSE
2008	E	5	27	7.86	100.31	TOP X5R		FALSE
2008	E	6	1	0.00	100.00	TOP X6L		FALSE
2008	E	6	2	0.00	99.58	BOT X6L		FALSE
2008	E	6	3	0.18	99.51	TBL		FALSE
2008	E	6	4	0.34	99.39	BIS		FALSE
2008	E	6	5	0.55	98.98	BIS		FALSE
2008	E	6	6	0.76	98.70	BIS		FALSE
2008	E	6	7	1.10	98.70	BIS	ON ROCK	FALSE
2008	E	6	8	1.25	98.38	EW		FALSE
2008	E	6	9	1.46	98.35	BIS		FALSE
2008	E	6	10	1.89	98.30	TW		FALSE
2008	E	6	11	2.07	98.41	EW	ON ROCK	FALSE
2008	E	6	12	2.23	98.41	BIS	ON ROCK	FALSE
2008	E	6	13	2.56	98.41	BIS		FALSE
2008	E	6	14	3.05	98.48	BIS		FALSE
2008	E	6	15	3.35	98.53	BF		FALSE
2008	E	6	16	3.41	98.77	BIS	ON ROCK	FALSE
2008	E	6	17	3.63	98.84	BIS	ON ROCK	FALSE
2008	E	6	18	3.87	98.83	BIS	ON ROCK	FALSE
2008	E	6	19	3.96	98.68	BIS		FALSE
2008	E	6	20	4.42	98.70	BIS		FALSE
2008	E	6	21	4.60	98.90	BIS		FALSE
2008	E	6	22	4.82	99.49	TBR		FALSE
2008	E	6	23	5.43	99.65	BOT X6R		FALSE
2008	E	6	24	5.43	99.99	TOP X6R		FALSE
2008	E	7	1	0.00	100.00	TOP X7L		FALSE
2008	E	7	2	0.00	99.78	BOT X7L		FALSE
2008	E	7	3	0.61	99.48	TBL		FALSE
2008	E	7	4	0.88	99.30	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	E	7	5	1.01	98.95	BIS		FALSE
2008	E	7	6	1.31	98.91	BIS	ON ROCK	FALSE
2008	E	7	7	1.46	98.64	BIS	ON ROCK	FALSE
2008	E	7	8	1.55	98.42	EW	TRUE EW UNDER ROCK	FALSE
2008	E	7	9	1.83	98.46	BIS		FALSE
2008	E	7	10	2.10	98.38	TW		FALSE
2008	E	7	11	2.74	98.46	BIS		FALSE
2008	E	7	12	2.99	98.44	BIS		FALSE
2008	E	7	13	3.32	98.47	BIS		FALSE
2008	E	7	14	3.87	98.53	EW		FALSE
2008	E	7	15	4.18	98.71	BIS	ON ROCK	FALSE
2008	E	7	16	4.54	98.99	BIS		FALSE
2008	E	7	17	4.72	99.63	TBR		FALSE
2008	E	7	18	4.94	99.73	BIS		FALSE
2008	E	7	19	5.43	99.76	BIS		FALSE
2008	E	7	20	5.70	99.68	BIS		FALSE
2008	E	7	21	6.52	99.72	BOT X7R		FALSE
2008	E	7	22	6.52	100.00	TOP X7R		FALSE
2008	E	8	1	0.00	100.00	TOP X8L		FALSE
2008	E	8	2	0.00	99.65	BOT		FALSE
						X8L/TBL		
2008	E	8	3	0.27	99.45	BIS		FALSE
2008	E	8	4	0.58	99.24	BIS		FALSE
2008	E	8	5	0.91	98.95	BIS		FALSE
2008	E	8	6	1.16	98.71	BIS		FALSE
2008	E	8	7	1.77	98.60	EW		FALSE
2008	E	8	8	1.92	98.56	BIS		FALSE
2008	E	8	9	2.01	98.54	TW		FALSE
2008	E	8	10	2.29	98.56	BIS		FALSE
2008	E	8	11	2.59	98.57	BIS		FALSE
2008	E	8	12	2.90	98.62	EW	TRUE EW UNDER ROCK	FALSE
2008	E	8	13	3.14	98.77	BIS	ON ROCK	FALSE
2008	E	8	14	3.20	98.76	BIS	ON ROCK	FALSE
2008	E	8	15	3.29	98.68	BIS		FALSE
2008	E	8	16	3.72	98.75	BF		FALSE
2008	E	8	17	4.02	98.87	BIS		FALSE
2008	E	8	18	4.51	99.41	TBR		FALSE
2008	E	8	19	4.60	99.58	BIS		FALSE
2008	E	8	20	5.18	99.64	BIS		FALSE
2008	E	8	21	5.40	99.64	BIS		FALSE
2008	E	8	22	6.58	99.79	BOT X8R		FALSE
2008	E	8	23	6.58	100.00	TOP X8R		FALSE
2008	E	9	1	0.00	100.00	TOP X9L		FALSE
2008	E	9	2	0.00	99.49	BOT X9L		FALSE
2008	E	9	3	0.30	99.25	BIS		FALSE
2008	E	9	4	0.58	99.06	BIS		FALSE
2008	E	9	5	0.91	98.87	TBL		FALSE
2008	E	9	6	1.13	98.50	BIS		FALSE
2008	E	9	7	1.40	98.32	BIS		FALSE
2008	E	9	8	1.74	98.07	BIS		FALSE
2008	E	9	9	2.10	97.95	BIS		FALSE
2008	E	9	10	2.47	97.87	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	E	9	11	2.77	97.76	BIS		FALSE
2008	E	9	12	3.29	97.63	EW		FALSE
2008	E	9	13	3.57	97.56	BIS		FALSE
2008	E	9	14	3.72	97.54	TW		FALSE
2008	E	9	15	3.90	97.55	BIS		FALSE
2008	E	9	16	3.93	97.66	BIS		FALSE
2008	E	9	17	4.27	97.67	BIS		FALSE
2008	E	9	18	4.39	97.56	BIS		FALSE
2008	E	9	19	4.57	97.60	BIS		FALSE
2008	E	9	20	4.79	97.66	EW	ON ROCK	FALSE
2008	E	9	21	5.06	97.76	BIS	ON ROCK	FALSE
2008	E	9	22	5.40	97.84	BF		FALSE
2008	E	9	23	5.67	97.90	BIS		FALSE
2008	E	9	24	6.19	97.95	BIS		FALSE
2008	E	9	25	6.61	98.04	BIS		FALSE
2008	E	9	26	6.92	98.26	BIS		FALSE
2008	E	9	27	7.28	98.55	BIS		FALSE
2008	E	9	28	7.59	98.98	BIS		FALSE
2008	E	9	29	7.77	99.10	BIS		FALSE
2008	E	9	30	7.99	99.63	TBR		FALSE
2008	E	9	31	8.20	99.70	BOT X9R		FALSE
2008	E	9	32	8.20	99.98	TOP X9R		FALSE
2008	E	10	1	0.00	100.00	TOP X10L		FALSE
2008	E	10	2	0.00	99.73	BOT X10L		FALSE
2008	E	10	3	0.12	99.64	BIS		FALSE
2008	E	10	4	0.46	99.36	TBR		FALSE
2008	E	10	5	0.76	98.73	BIS		FALSE
2008	E	10	6	1.07	98.58	BIS		FALSE
2008	E	10	7	1.55	98.35	BIS	ON ROCK	FALSE
2008	E	10	8	1.89	98.23	BIS	ON ROCK	FALSE
2008	E	10	9	2.13	98.34	BIS	ON ROCK	FALSE
2008	E	10	10	2.41	98.41	BIS	ON ROCK	FALSE
2008	E	10	11	2.50	98.06	EW		FALSE
2008	E	10	12	2.80	98.02	TW		FALSE
2008	E	10	13	3.17	98.05	BIS		FALSE
2008	E	10	14	3.38	98.09	EW		FALSE
2008	E	10	15	3.90	98.29	BF		FALSE
2008	E	10	16	4.08	98.44	BIS		FALSE
2008	E	10	17	4.97	98.63	BIS		FALSE
2008	E	10	18	5.24	99.09	TBR		FALSE
2008	E	10	19	5.73	99.43	BIS		FALSE
2008	E	10	20	6.07	99.69	BIS		FALSE
2008	E	10	21	7.10	99.95	BOT X10R		FALSE
2008	E	10	22	7.10	100.16	TOP X10R		FALSE
2008	F	1	1	0.00	100.00	TOP X1L		FALSE
2008	F	1	2	0.00	99.85	BOT X1L		FALSE
2008	F	1	3	0.30	99.68	BIS		FALSE
2008	F	1	4	0.91	99.18	BIS		FALSE
2008	F	1	5	1.28	99.07	BIS		FALSE
2008	F	1	6	1.68	98.92	BIS		FALSE
2008	F	1	7	1.92	99.34	BIS	ON LOG	FALSE
2008	F	1	8	2.47	98.88	BIS	ON ROCK	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	F	1	9	2.68	98.58	BIS		FALSE
2008	F	1	10	3.23	98.33	BIS		FALSE
2008	F	1	11	4.42	98.26	BF		FALSE
2008	F	1	12	5.18	98.11	BIS		FALSE
2008	F	1	13	5.46	98.24	BIS	ON ROCK	FALSE
2008	F	1	14	5.76	97.99	EW		FALSE
2008	F	1	15	5.94	97.88	BIS		FALSE
2008	F	1	16	6.04	97.88	TW		FALSE
2008	F	1	17	6.07	98.02	EW		FALSE
2008	F	1	18	6.46	98.07	BIS	Adjusted 1 foot up	FALSE
2008	F	1	19	6.58	98.25	BIS		FALSE
2008	F	1	20	7.41	98.28	BIS	ON ROCK; TRUE EW UNDER ROCK	FALSE
2008	F	1	21	7.68	98.40	BIS		FALSE
2008	F	1	22	8.23	98.69	BIS	ON ROCK	FALSE
2008	F	1	23	8.41	99.04	BIS		FALSE
2008	F	1	24	9.02	99.44	BIS		FALSE
2008	F	1	25	9.21	99.59	BIS		FALSE
2008	F	1	26	9.39	99.71	BOT X1R		FALSE
2008	F	1	27	9.39	99.81	TOP X1R	REBAR SLIGHTLY BEND IN- WARD	FALSE
2008	F	2	1	0.00	100.00	TOP X2L		FALSE
2008	F	2	2	0.00	99.82	BOT X2L		FALSE
2008	F	2	3	0.30	99.67	BIS		FALSE
2008	F	2	4	0.40	99.45	BIS		FALSE
2008	F	2	5	0.67	99.31	BIS		FALSE
2008	F	2	6	0.91	99.13	BIS		FALSE
2008	F	2	7	1.25	99.04	BIS		FALSE
2008	F	2	8	1.43	98.89	BIS		FALSE
2008	F	2	9	2.13	98.59	BIS		FALSE
2008	F	2	10	2.56	98.42	TBL		FALSE
2008	F	2	11	2.65	98.05	BIS		FALSE
2008	F	2	12	3.08	97.92	BIS		FALSE
2008	F	2	13	3.60	97.75	BF		FALSE
2008	F	2	14	4.15	97.77	BIS		FALSE
2008	F	2	15	4.54	97.70	BIS		FALSE
2008	F	2	16	4.72	97.61	EW		FALSE
2008	F	2	17	4.97	97.56	BIS		FALSE
2008	F	2	18	5.30	97.54	TW		FALSE
2008	F	2	19	5.64	97.60	BIS		FALSE
2008	F	2	20	6.04	97.60	BIS		FALSE
2008	F	2	21	6.31	97.57	BIS		FALSE
2008	F	2	22	6.52	97.61	EW		FALSE
2008	F	2	23	6.95	97.81	BIS		FALSE
2008	F	2	24	7.13	97.83	BIS		FALSE
2008	F	2	25	7.41	98.07	BIS		FALSE
2008	F	2	26	7.74	98.22	BIS		FALSE
2008	F	2	27	8.08	98.44	BIS		FALSE
2008	F	2	28	8.17	98.48	BIS		FALSE
2008	F	2	29	8.35	99.47	TBR		FALSE
2008	F	2	30	8.72	99.81	BOT X2R		FALSE
2008	F	2	31	8.72	99.90	TOP X2R		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	F	3	1	0.00	100.00	TOP X3L		FALSE
2008	F	3	2	0.00	99.86	BOT X3L		FALSE
2008	F	3	3	0.61	99.61	BIS		FALSE
2008	F	3	4	1.13	99.37	TBL		FALSE
2008	F	3	5	1.34	98.61	BIS		FALSE
2008	F	3	6	1.83	98.52	BIS		FALSE
2008	F	3	7	2.04	98.43	BF		FALSE
2008	F	3	8	2.59	98.38	BIS		FALSE
2008	F	3	9	2.90	98.42	BIS		FALSE
2008	F	3	10	3.05	98.36	BIS		FALSE
2008	F	3	11	3.57	98.44	BIS		FALSE
2008	F	3	12	3.99	98.37	BIS		FALSE
2008	F	3	13	4.54	98.21	BIS		FALSE
2008	F	3	14	4.79	98.16	BIS		FALSE
2008	F	3	15	4.91	98.12	EW		FALSE
2008	F	3	16	5.09	98.09	BIS		FALSE
2008	F	3	17	5.27	98.10	BIS		FALSE
2008	F	3	18	5.43	98.07	TW		FALSE
2008	F	3	19	5.64	98.18	EW		FALSE
2008	F	3	20	6.25	98.63	BIS		FALSE
2008	F	3	21	6.46	98.67	BIS		FALSE
2008	F	3	22	6.95	98.78	BIS		FALSE
2008	F	3	23	7.41	99.77	TBR		FALSE
2008	F	3	24	7.80	100.01	BOT X3R		FALSE
2008	F	3	25	7.80	100.07	TOP X3R		FALSE
2008	F	4	1	0.00	100.00	TOP X4L		FALSE
2008	F	4	2	0.00	99.95	BOT X4L		FALSE
2008	F	4	3	1.22	99.06	BIS		FALSE
2008	F	4	4	1.43	99.03	TBL		FALSE
2008	F	4	5	1.92	98.43	BIS		FALSE
2008	F	4	6	2.56	98.03	BIS		FALSE
2008	F	4	7	2.74	97.87	BIS		FALSE
2008	F	4	8	3.26	97.85	BIS		FALSE
2008	F	4	9	3.47	97.88	BIS		FALSE
2008	F	4	10	3.81	97.87	BIS		FALSE
2008	F	4	11	4.11	97.76	BIS		FALSE
2008	F	4	12	4.48	97.74	BIS		FALSE
2008	F	4	13	4.63	97.74	BIS		FALSE
2008	F	4	14	4.75	97.74	EWL		FALSE
2008	F	4	15	5.03	97.66	TW		FALSE
2008	F	4	16	5.18	97.67	BIS		FALSE
2008	F	4	17	5.55	97.70	BIS		FALSE
2008	F	4	18	5.79	97.76	EWR		FALSE
2008	F	4	19	6.16	97.79	BIS		FALSE
2008	F	4	20	6.40	97.78	BIS		FALSE
2008	F	4	21	6.74	98.15	BIS		FALSE
2008	F	4	22	7.19	98.76	BIS		FALSE
2008	F	4	23	7.47	99.22	BIS		FALSE
2008	F	4	24	7.77	99.56	BIS		FALSE
2008	F	4	25	8.53	99.89	BIS		FALSE
2008	F	4	26	8.84	99.92	BOT X4R		FALSE
2008	F	4	27	8.84	100.14	TOP X4R		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	F	5	1	0.00	100.00	TOP X5L		FALSE
2008	F	5	2	0.00	99.95	BOT X5L		FALSE
2008	F	5	3	0.21	99.74	BIS		FALSE
2008	F	5	4	0.58	99.36	BIS		FALSE
2008	F	5	5	1.01	99.19	BIS		FALSE
2008	F	5	6	1.28	99.00	TBL		FALSE
2008	F	5	7	1.52	98.91	BIS		FALSE
2008	F	5	8	1.77	98.72	BF		FALSE
2008	F	5	9	2.10	98.66	BIS		FALSE
2008	F	5	10	2.47	98.68	BIS		FALSE
2008	F	5	11	2.83	98.56	BIS		FALSE
2008	F	5	12	3.05	98.51	EW		FALSE
2008	F	5	13	3.26	98.46	BIS		FALSE
2008	F	5	14	3.29	99.29	BIS	ON OVERHANGING LOG	TRUE
2008	F	5	15	3.57	99.15	BIS	ON OVERHANGING LOG	TRUE
2008	F	5	16	3.78	98.48	BIS		FALSE
2008	F	5	17	3.87	98.45	TW	TRUE TW UNDER OVER- HANGING LOG	FALSE
2008	F	5	18	4.21	98.49	BIS		FALSE
2008	F	5	19	4.79	98.52	EW		FALSE
2008	F	5	20	4.94	98.65	BIS		FALSE
2008	F	5	21	5.30	98.62	BIS		FALSE
2008	F	5	22	5.40	98.92	BIS	ON BOULDER	FALSE
2008	F	5	23	5.76	99.07	BIS	ON BOULDER	FALSE
2008	F	5	24	6.10	99.12	BIS	ON BOULDER	FALSE
2008	F	5	25	6.37	98.80	BIS		FALSE
2008	F	5	26	6.80	99.03	BIS	TBR ABOVE REBAR	FALSE
2008	F	5	27	7.22	99.41	BIS		FALSE
2008	F	5	28	7.65	99.81	BOT X5R		FALSE
2008	F	5	29	7.65	99.91	TOP X5R		FALSE
2008	F	6	1	0.00	100.00	TOP X6L		FALSE
2008	F	6	2	0.00	99.83	BOT X6L		FALSE
2008	F	6	3	0.34	99.73	BIS		FALSE
2008	F	6	4	0.58	99.51	BIS		FALSE
2008	F	6	5	0.91	99.33	BIS		FALSE
2008	F	6	6	1.28	99.03	BIS		FALSE
2008	F	6	7	1.77	98.56	BIS	ON ROCK; POSSIBLE BF, IM- POSSIBLE TO TELL DUE TO DEBRIS/LOGJAM	FALSE
2008	F	6	8	1.86	98.35	BIS	ON DEBRIS	FALSE
2008	F	6	9	2.04	98.41	BIS		FALSE
2008	F	6	10	2.29	98.63	BIS	ON LOG	FALSE
2008	F	6	11	2.56	98.53	BIS		FALSE
2008	F	6	12	2.80	98.48	BIS	ON LOG	FALSE
2008	F	6	13	3.32	98.48	BIS		FALSE
2008	F	6	14	3.41	98.27	BIS		FALSE
2008	F	6	15	3.60	98.31	BIS	ON LOG	FALSE
2008	F	6	16	3.69	98.26	EW		FALSE
2008	F	6	17	3.81	98.17	TW		FALSE
2008	F	6	18	4.08	98.19	BIS		FALSE
2008	F	6	19	4.48	98.18	BIS		FALSE
2008	F	6	20	4.88	98.22	EW	TRUE EW UNDER BOULDER	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	F	6	21	4.94	98.78	BIS	ON BOULDER	FALSE
2008	F	6	22	5.06	98.87	BIS	ON BOULDER	FALSE
2008	F	6	23	5.40	98.85	BIS	ON BOULDER	FALSE
2008	F	6	24	5.67	98.92	BIS	ON BOULDER	FALSE
2008	F	6	25	6.07	98.96	BIS	ON BOULDER	FALSE
2008	F	6	26	6.31	99.15	BIS		FALSE
2008	F	6	27	6.71	99.21	BIS		FALSE
2008	F	6	28	7.35	99.38	BIS		FALSE
2008	F	6	29	7.89	99.52	BIS		FALSE
2008	F	6	30	8.47	99.87	BOT X6R		FALSE
2008	F	6	31	8.47	99.98	TOP X6R		FALSE
2008	F	7	1	0.00	100.00	TOP X7L		FALSE
2008	F	7	2	0.00	99.95	BOT X7L		FALSE
2008	F	7	3	0.27	99.73	TBL		FALSE
2008	F	7	4	0.49	99.38	BIS		FALSE
2008	F	7	5	0.73	99.15	BIS		FALSE
2008	F	7	6	1.01	98.97	BIS		FALSE
2008	F	7	7	1.13	98.79	BIS		FALSE
2008	F	7	8	1.40	98.69	BIS		FALSE
2008	F	7	9	1.58	98.59	BIS		FALSE
2008	F	7	10	1.80	98.53	BIS		FALSE
2008	F	7	11	2.10	98.45	BIS		FALSE
2008	F	7	12	2.59	98.40	EWL		FALSE
2008	F	7	13	2.80	98.37	BIS		FALSE
2008	F	7	14	2.93	98.36	BIS		FALSE
2008	F	7	15	3.23	98.34	TW		FALSE
2008	F	7	16	3.41	98.41	EWR		FALSE
2008	F	7	17	3.66	98.46	BIS		FALSE
2008	F	7	18	3.81	98.53	BIS		FALSE
2008	F	7	19	3.96	98.56	BIS		FALSE
2008	F	7	20	4.02	98.72	BIS	ON ROCK	FALSE
2008	F	7	21	4.21	98.82	BIS	ON ROCK	FALSE
2008	F	7	22	4.51	98.77	BIS		FALSE
2008	F	7	23	5.06	98.87	BIS		FALSE
2008	F	7	24	5.61	99.02	BIS		FALSE
2008	F	7	25	5.91	99.05	BIS		FALSE
2008	F	7	26	6.13	99.16	BIS		FALSE
2008	F	7	27	6.58	99.20	BIS		FALSE
2008	F	7	28	7.01	99.30	BIS		FALSE
2008	F	7	29	7.38	99.29	BIS		FALSE
2008	F	7	30	8.14	99.59	BIS		FALSE
2008	F	7	31	8.69	99.86	BOT X7R		FALSE
2008	F	7	32	8.69	99.95	TOP X7R		FALSE
2008	F	8	1	0.06	100.00	TOP X8L	REBAR BEND INWARDS	FALSE
2008	F	8	2	0.00	99.91	BOT X8L		FALSE
2008	F	8	3	0.15	99.82	BIS		FALSE
2008	F	8	4	0.34	99.60	BIS		FALSE
2008	F	8	5	0.70	99.38	BIS		FALSE
2008	F	8	6	1.01	99.09	TBL		FALSE
2008	F	8	7	1.13	98.62	BIS		FALSE
2008	F	8	8	1.83	98.30	BIS		FALSE
2008	F	8	9	2.29	98.26	BIS	ON BOULDER	FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	F	8	10	2.56	97.89	BF		FALSE
2008	F	8	11	3.05	97.87	BIS		FALSE
2008	F	8	12	3.41	97.78	EW		FALSE
2008	F	8	13	3.54	97.74	BIS		FALSE
2008	F	8	14	3.66	97.73	BIS		FALSE
2008	F	8	15	3.84	97.73	TW		FALSE
2008	F	8	16	4.05	97.75	BIS		FALSE
2008	F	8	17	4.39	97.77	BIS		FALSE
2008	F	8	18	4.57	97.75	BIS		FALSE
2008	F	8	19	4.79	97.78	EW		FALSE
2008	F	8	20	4.88	98.16	BIS		FALSE
2008	F	8	21	5.21	98.42	BIS		FALSE
2008	F	8	22	5.67	98.53	BIS		FALSE
2008	F	8	23	5.91	98.56	BIS		FALSE
2008	F	8	24	6.40	98.62	BIS		FALSE
2008	F	8	25	7.16	98.76	BIS		FALSE
2008	F	8	26	7.50	98.79	BIS		FALSE
2008	F	8	27	8.26	98.67	BIS		FALSE
2008	F	8	28	8.63	98.68	BIS		FALSE
2008	F	8	29	8.96	98.75	BIS		FALSE
2008	F	8	30	9.33	99.11	BIS		FALSE
2008	F	8	31	9.54	99.19	BIS		FALSE
2008	F	8	32	9.75	99.29	BIS		FALSE
2008	F	8	33	10.30	99.52	BIS		FALSE
2008	F	8	34	10.82	99.63	BIS		FALSE
2008	F	8	35	11.25	99.82	BIS		FALSE
2008	F	8	36	11.89	99.82	BIS		FALSE
2008	F	8	37	12.74	99.88	BOT X8R		FALSE
2008	F	8	38	12.74	100.03	TOP X8R		FALSE
2008	F	9	1	0.00	100.00	TOP		FALSE
						X9L/TBL		
2008	F	9	2	0.00	99.81	BOT X9L		FALSE
2008	F	9	3	0.24	99.68	BIS		FALSE
2008	F	9	4	0.37	99.28	BIS		FALSE
2008	F	9	5	0.70	99.10	BIS		FALSE
2008	F	9	6	1.10	98.86	BIS		FALSE
2008	F	9	7	1.62	98.72	BF		FALSE
2008	F	9	8	1.89	98.66	BIS		FALSE
2008	F	9	9	2.16	98.53	EW		FALSE
2008	F	9	10	2.62	98.48	BIS		FALSE
2008	F	9	11	3.05	98.47	BIS		FALSE
2008	F	9	12	3.32	98.41	TW		FALSE
2008	F	9	13	3.60	98.42	BIS		FALSE
2008	F	9	14	3.87	98.45	EW		FALSE
2008	F	9	15	4.05	98.89	BIS		FALSE
2008	F	9	16	4.45	99.09	BIS		FALSE
2008	F	9	17	5.15	99.17	BIS		FALSE
2008	F	9	18	5.82	99.23	BIS		FALSE
2008	F	9	19	6.37	99.21	BIS		FALSE
2008	F	9	20	6.92	99.06	BIS		FALSE
2008	F	9	21	7.74	99.11	BIS		FALSE
2008	F	9	22	8.38	99.06	BIS		FALSE

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Table D.1 – Continued

Year	Reach	Section	Point	Dist. (m)	Elev. (m)	Desc.	Notes	Exclude
2008	F	9	23	8.72	99.04	BIS		FALSE
2008	F	9	24	9.63	99.05	BIS		FALSE
2008	F	9	25	9.88	99.12	BIS		FALSE
2008	F	9	26	10.15	99.55	TBR	ON ROCK	FALSE
2008	F	9	27	10.52	99.58	BIS		FALSE
2008	F	9	28	11.25	99.77	BOT X9R		FALSE
2008	F	9	29	11.25	99.96	TOP X9R		FALSE
2008	F	10	1	0.00	100.00	TOP		FALSE
						X10L/TBL		
2008	F	10	2	0.00	99.83	BOT X10L		FALSE
2008	F	10	3	0.27	99.10	BIS		FALSE
2008	F	10	4	0.52	98.94	BIS		FALSE
2008	F	10	5	0.70	98.88	BIS		FALSE
2008	F	10	6	0.91	98.69	BIS		FALSE
2008	F	10	7	1.25	98.55	EW		FALSE
2008	F	10	8	1.40	98.49	BIS		FALSE
2008	F	10	9	1.80	98.43	TW		FALSE
2008	F	10	10	2.07	98.49	BIS		FALSE
2008	F	10	11	2.35	98.51	BIS		FALSE
2008	F	10	12	2.68	98.49	BIS		FALSE
2008	F	10	13	2.87	98.54	EW		FALSE
2008	F	10	14	3.14	98.55	BIS		FALSE
2008	F	10	15	3.26	98.65	BIS		FALSE
2008	F	10	16	3.75	98.70	BIS		FALSE
2008	F	10	17	4.11	98.86	BIS		FALSE
2008	F	10	18	4.60	99.18	BIS		FALSE
2008	F	10	19	5.12	99.28	BIS		FALSE
2008	F	10	20	5.79	99.18	BIS		FALSE
2008	F	10	21	6.37	99.18	BIS		FALSE
2008	F	10	22	6.98	99.05	BIS		FALSE
2008	F	10	23	7.83	99.05	BIS		FALSE
2008	F	10	24	8.29	98.97	BIS		FALSE
2008	F	10	25	8.96	98.95	BIS		FALSE
2008	F	10	26	9.21	99.39	BIS		FALSE
2008	F	10	27	9.45	99.59	TBR		FALSE
2008	F	10	28	9.75	99.66	BOT X10R		FALSE
2008	F	10	29	9.75	99.80	TOP X10R		FALSE

D.2 Cross Section Offsets

These values are added to the surveyed cross section data to correct for rebar movement.

Table D.2: Cross section offsets

Section Code	Distance Offset (m)	Elevation Offset (m)
2002A1	0.000	0.000
2002A10	0.000	0.000
2002A2	0.000	0.000
2002A3	0.000	0.000
2002A4	0.000	0.000
2002A5	0.000	0.000
2002A6	0.000	0.000
2002A7	0.000	0.000
2002A8	0.000	0.000
2002A9	0.000	0.000
2002B1	0.000	0.000
2002B10	0.000	0.000
2002B2	0.000	0.000
2002B3	0.000	0.000
2002B4	0.000	0.000
2002B5	0.000	0.000
2002B6	0.000	0.000
2002B7	0.000	0.000
2002B8	0.000	0.000
2002B9	0.000	0.000
2002C1	0.000	0.000
2002C10	0.000	0.000
2002C2	0.000	0.000
2002C3	0.000	0.000
2002C4	0.000	0.000
2002C5	0.000	0.000
2002C6	0.000	0.000
2002C7	0.000	0.000
2002C8	0.000	0.000
2002C9	0.000	-0.305
2002D1	6.889	-1.158
2002D10	0.000	0.000
2002D2	0.000	0.000
2002D3	0.000	0.000
2002D5	0.000	0.000
2002D6	0.000	0.000
2002D7	0.000	0.000
2002D8	-0.091	0.000
2002D9	-0.305	0.152
2002E1	0.000	0.000
2002E10	0.000	0.000
2002E2	0.000	0.000
2002E3	0.000	0.000
2002E4	0.000	0.671
2002E5	0.000	0.000
2002E6	0.000	0.000
2002E7	0.000	0.000
2002E8	0.000	0.000
2002E9	0.061	0.000
2002F1	-0.061	0.000
2002F10	0.000	0.000

Continued on Next Page...

Table D.2 – Continued

Section Code	Distance Offset (m)	Elevation Offset (m)
2002F2	0.000	0.000
2002F3	0.000	0.000
2002F4	0.000	0.000
2002F5	0.000	0.000
2002F6	-0.183	0.000
2002F7	0.000	0.000
2002F8	0.000	0.000
2002F9	0.000	0.000
2003A1	0.000	0.000
2003A10	0.000	0.000
2003A2	0.000	0.000
2003A3	0.000	0.000
2003A4	0.000	0.000
2003A5	0.000	0.000
2003A6	0.101	-0.113
2003A7	0.000	0.000
2003A8	0.000	0.000
2003A9	0.000	0.000
2003B1	0.000	0.000
2003B10	0.000	-0.244
2003B2	0.000	0.000
2003B3	0.000	0.000
2003B4	0.000	0.000
2003B5	-0.238	0.030
2003B6	0.000	0.000
2003B7	0.000	-0.549
2003B8	0.000	0.000
2003B9	0.000	0.000
2004A1	0.000	0.000
2004A10	0.000	0.000
2004A2	0.000	0.000
2004A3	0.000	0.000
2004A4	0.000	0.000
2004A5	0.000	0.000
2004A6	0.183	-0.076
2004A7	0.000	0.000
2004A8	0.000	0.000
2004A9	0.000	0.000
2004B1	0.000	0.000
2004B10	0.000	0.000
2004B2	0.000	0.000
2004B3	0.030	0.000
2004B4	0.000	0.000
2004B5	0.030	-0.152
2004B6	0.000	0.000
2004B7	0.000	0.000
2004B8	0.000	0.000
2004B9	0.122	0.000
2004C1	0.274	-0.140
2004C10	0.000	0.000
2004C2	0.000	0.000
2004C3	0.000	0.000

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Table D.2 – Continued

Section Code	Distance Offset (m)	Elevation Offset (m)
2004C4	0.000	0.000
2004C5	0.366	-0.091
2004C6	0.000	0.000
2004C7	0.000	0.000
2004C8	0.000	0.000
2004C9	0.000	0.000
2004D1	0.000	0.000
2004D10	0.000	0.000
2004D2	0.000	0.000
2004D3	0.000	0.000
2004D4	0.000	0.000
2004D5	0.000	0.000
2004D6	0.030	0.000
2004D7	0.000	0.000
2004D8	0.000	0.000
2004D9	0.000	0.000
2004E1	0.000	0.000
2004E10	0.000	0.000
2004E2	0.000	0.000
2004E3	0.000	0.000
2004E4	0.000	0.000
2004E5	0.000	0.000
2004E6	0.000	0.000
2004E7	0.000	0.000
2004E8	0.000	0.000
2004E9	0.000	0.000
2004F1	0.000	0.000
2004F10	0.000	0.000
2004F2	0.000	0.000
2004F3	0.000	0.000
2004F4	0.000	0.000
2004F5	0.000	0.000
2004F6	0.000	0.000
2004F7	0.000	0.000
2004F8	0.000	0.000
2004F9	0.000	0.000
2005A1	0.000	0.000
2005A10	0.000	0.000
2005A2	0.000	0.000
2005A3	0.000	0.000
2005A4	0.000	0.000
2005A5	0.000	0.000
2005A6	0.213	-0.091
2005A7	0.000	0.000
2005A8	0.000	0.000
2005A9	0.000	0.000
2005B1	0.000	0.000
2005B10	0.000	0.000
2005B2	0.000	0.000
2005B3	0.030	0.000
2005B4	0.000	0.000
2005B5	0.091	0.000

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Table D.2 – Continued

Section Code	Distance Offset (m)	Elevation Offset (m)
2005B6	0.000	0.000
2005B7	0.000	0.000
2005B8	0.183	-0.037
2005B9	0.122	-0.488
2005C1	0.274	-0.216
2005C2	0.000	0.000
2005C3	0.000	0.000
2005C4	0.000	0.000
2005C5	0.244	-0.091
2005C6	0.000	0.000
2005C7	0.000	0.000
2005D1	0.000	0.000
2005D10	0.000	0.000
2005D2	0.000	0.000
2005D3	0.000	0.000
2005D4	-0.091	0.000
2005D5	0.000	0.000
2005D6	0.061	0.000
2005D7	0.000	0.000
2005D8	0.000	0.000
2005D9	0.000	0.000
2005E1	0.000	0.000
2005E10	0.000	0.000
2005E2	0.000	0.000
2005E3	0.000	0.000
2005E4	0.091	-0.061
2005E5	0.000	0.000
2005E6	0.000	0.000
2005E7	0.000	0.000
2005E8	0.000	0.000
2005E9	0.000	0.000
2005F1	0.000	0.000
2005F10	-0.610	0.000
2005F2	0.000	0.000
2005F3	0.000	0.000
2005F4	0.000	0.000
2005F5	0.000	0.000
2005F6	0.000	0.000
2005F7	0.000	0.000
2005F8	0.000	0.000
2005F9	0.000	0.000
2006A1	0.000	0.000
2006A10	0.000	0.000
2006A2	0.000	0.000
2006A3	0.000	0.000
2006A4	0.000	0.000
2006A5	0.000	0.000
2006A6	0.274	-0.107
2006A7	0.000	0.000
2006A8	0.000	0.000
2006A9	0.000	0.000
2006B1	0.000	0.000

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Table D.2 – Continued

Section Code	Distance Offset (m)	Elevation Offset (m)
2006B10	0.000	0.000
2006B2	0.000	0.000
2006B3	0.061	0.000
2006B4	0.000	0.000
2006B5	0.061	0.000
2006B6	0.000	0.000
2006B7	0.000	0.000
2006B8	0.244	-0.107
2006B9	0.122	-0.488
2006C1	0.366	-0.442
2006C10	0.000	0.000
2006C2	0.000	0.000
2006C3	0.000	0.000
2006C4	0.000	0.000
2006C5	0.122	-0.091
2006C6	0.000	0.000
2006C7	0.000	0.000
2006C8	0.000	0.000
2006C9	0.000	0.000
2006D1	0.000	0.000
2006D10	0.000	0.000
2006D2	0.000	0.000
2006D3	0.000	0.000
2006D4	0.000	0.000
2006D5	0.000	0.000
2006D6	0.091	-0.030
2006D7	0.000	0.000
2006D8	0.000	0.000
2006D9	0.000	0.000
2006E1	0.000	0.000
2006E10	0.000	0.091
2006E2	0.000	0.000
2006E3	0.000	0.000
2006E4	0.091	-0.061
2006E5	0.000	0.000
2006E6	0.000	0.000
2006E7	0.000	0.000
2006E8	0.000	0.000
2006E9	0.000	0.000
2006F1	0.000	0.000
2006F10	0.000	0.000
2006F2	0.000	0.000
2006F3	0.000	0.000
2006F4	0.000	0.000
2006F5	0.000	0.000
2006F6	0.000	0.000
2006F7	0.000	0.000
2006F8	0.000	0.000
2006F9	0.000	0.000
2007A1	0.000	0.000
2007A10	0.000	0.000
2007A2	0.000	0.000

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Table D.2 – Continued

Section Code	Distance Offset (m)	Elevation Offset (m)
2007A3	0.000	0.000
2007A4	0.000	0.000
2007A5	0.000	0.000
2007A6	0.366	-0.198
2007A7	0.000	0.000
2007A8	0.000	0.000
2007A9	0.000	0.000
2007B1	0.000	0.000
2007B10	0.000	0.000
2007B2	0.000	0.000
2007B3	0.061	0.000
2007B4	0.000	0.000
2007B5	0.457	-0.094
2007B6	0.000	0.000
2007B7	0.000	0.000
2007B8	0.305	-0.168
2007B9	0.122	-0.488
2007C1	0.335	-0.265
2007C2	0.152	0.000
2007C3	0.000	0.000
2007C4	0.000	0.000
2007C5	0.122	-0.091
2007C6	0.000	0.000
2007C7	0.000	0.000
2007C8	0.000	0.000
2007C9	0.000	0.000
2007D1	0.000	0.000
2007D10	0.000	0.000
2007D2	0.000	0.000
2007D3	0.000	0.000
2007D4	0.061	0.000
2007D5	0.000	-0.128
2007D6	0.091	-0.030
2007D7	0.000	0.000
2007D8	0.000	0.000
2007D9	0.000	0.000
2007E1	0.000	0.000
2007E10	0.030	0.000
2007E2	0.000	0.000
2007E3	0.000	0.000
2007E4	0.091	-0.061
2007E5	0.000	-0.305
2007E6	0.000	0.000
2007E7	0.000	0.000
2007E8	0.000	0.000
2007E9	0.000	0.000
2007F1	-0.030	0.000
2007F10	0.000	0.000
2007F2	0.000	0.000
2007F3	0.000	0.000
2007F4	0.000	0.000
2007F5	0.000	0.000

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Table D.2 – Continued

Section Code	Distance Offset (m)	Elevation Offset (m)
2007F6	0.000	0.000
2007F7	0.000	0.000
2007F8	0.000	0.000
2007F9	0.000	0.000
2008A1	0.000	0.000
2008A10	0.000	0.000
2008A2	0.000	0.000
2008A3	0.000	0.000
2008A4	0.000	0.000
2008A5	0.000	0.000
2008A6	0.122	-0.241
2008A7	0.000	0.000
2008A8	0.000	0.000
2008A9	0.000	0.000
2008B1	0.000	0.000
2008B10	0.000	0.000
2008B2	0.000	0.000
2008B3	0.000	0.000
2008B4	0.000	0.000
2008B5	0.427	-0.070
2008B6	0.000	0.000
2008B7	-0.152	0.000
2008B8	0.091	-0.061
2008B9	0.000	0.000
2008C1	0.000	-0.073
2008C10	0.000	0.000
2008C2	0.000	0.000
2008C3	0.000	0.000
2008C4	0.000	0.000
2008C5	0.000	0.000
2008C6	0.000	0.000
2008C7	0.000	0.000
2008C8	0.000	0.000
2008C9	0.000	0.000
2008D1	6.706	-1.158
2008D10	0.000	0.000
2008D2	0.000	0.000
2008D3	0.000	0.000
2008D4	-0.030	-0.107
2008D5	0.000	-0.024
2008D6	0.091	-0.030
2008D7	0.000	0.000
2008D8	-0.122	0.000
2008D9	-0.183	0.000
2008E1	0.000	0.000
2008E10	0.000	0.000
2008E2	-0.091	0.000
2008E3	0.000	0.000
2008E4	0.030	-0.061
2008E5	0.000	0.000
2008E6	-0.091	0.000
2008E7	0.000	0.000

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Table D.2 – Continued

Section Code	Distance Offset (m)	Elevation Offset (m)
2008E8	0.030	0.000
2008E9	0.000	0.000
2008F1	0.000	0.000
2008F10	0.000	0.000
2008F2	0.000	0.000
2008F3	0.000	0.000
2008F4	0.000	0.000
2008F5	0.000	0.000
2008F6	0.000	0.000
2008F7	0.000	0.000
2008F8	0.000	0.000
2008F9	0.000	0.000

D.3 Longitudinal Profile Data

Table D.3: Permanent point and rebar coordinates. Units are in feet, CA State Plane Coordinates.

Reach	Northing	Easting	Elevation	Description
A	1850675.23	6058274.92	92.42	CONTROL A1
A	1850663.37	6058322.63	93.81	PPA
A	1850788.23	6058374.22	91.32	CONTROL A2
A	1850728.22	6058268.43	91.37	PPA2
A	1850770.94	6058340.74	93.96	PPA3
A	1850783.74	6058300.56	107.53	ST8 SPK ANGL PT
A	1850743.00	6058265.17	93.80	TOP REB XS10R
A	1850750.93	6058280.51	94.37	TOP REB XS789R
A	1850756.40	6058297.08	94.12	TOP REB XS6R
A	1850677.39	6058275.46	93.79	TOP REB XS10L
A	1850684.12	6058290.75	93.60	TOP REB XS9L
A	1850691.69	6058305.56	94.40	TOP REB XS8L
A	1850703.99	6058319.87	93.65	TOP REB XS7L
A	1850717.63	6058327.78	94.25	TOP REB XS6L
A	1850769.33	6058350.90	93.29	TOP REB XS45R
A	1850791.80	6058375.80	96.76	TOP REB XS3R
A	1850793.58	6058386.66	95.78	TOP REB XS2R
A	1850799.00	6058399.20	94.02	TOP REB XS1R
A	1850772.58	6058413.34	94.20	TOP REB XS1L
A	1850763.93	6058405.56	95.79	TOP REB XS2L
A	1850758.65	6058388.21	96.48	TOP REB XS3L
A	1850751.20	6058373.33	93.81	TOP REB XS4L
A	1850746.39	6058363.02	93.32	TOP REB XS5L
B	1851072.04	6059560.93	143.43	PPB
B	1851103.87	6059487.00	139.72	PPB2
B	1851092.38	6059602.13	152.06	PPB3
B	1851044.01	6059487.05	131.45	TOP REB XS10L
B	1851054.18	6059498.98	131.71	TOP REB XS9L
B	1851067.45	6059510.11	127.22	TOP REB XS8L

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Table D.3 – Continued

Reach	Northing	Easting	Elevation	Description
B	1851074.17	6059524.77	129.96	TOP REB XS7L
B	1851081.90	6059534.57	128.96	TOP REB XS6L
B	1851090.89	6059545.80	130.41	TOP REB XS5L
B	1851090.11	6059546.32	129.84	BOTT REB XS5L
B	1851101.28	6059556.62	129.16	TOP REB XS4L
B	1851107.80	6059568.05	131.61	TOP REB XS3L
B	1851111.79	6059580.57	134.22	TOP REB XS2L
B	1851118.79	6059589.80	133.88	TOP REB XS1L
B	1851088.31	6059462.29	131.40	TOP REB XS10R
B	1851091.57	6059473.15	131.56	TOP REB XS9R
B	1851081.95	6059500.42	126.58	TOP REB XS8R
B	1851098.04	6059504.61	130.03	TOP REB XS7R
B	1851102.96	6059519.67	128.92	TOP REB XS6R
B	1851111.27	6059530.21	130.78	TOP REB XS5R
B	1851120.53	6059541.88	129.11	TOP REB XS4R
B	1851131.02	6059553.50	131.43	TOP REB XS3R
B	1851142.87	6059565.40	134.19	TOP REB XS2R
B	1851148.35	6059574.71	133.76	TOP REB XS1R
C	1852046.61	6062592.30	318.45	PPC
C	1852027.81	6062502.69	297.64	PPC2
C	1852064.69	6062656.95	321.92	PPC3
C	1852025.69	6062642.64	304.62	CONTROL C1
C	1852030.25	6062656.94	309.67	TOP REB XS2R
C	1852034.01	6062642.21	308.14	TOP REB XS3R
C	1852025.54	6062628.83	308.02	TOP REB XS4R
C	1852021.17	6062613.46	307.58	TOP REB XS5R
C	1851980.64	6062620.57	307.65	TOP REB XS5L
C	1851987.42	6062638.08	308.05	TOP REB XS4L
C	1851988.63	6062651.26	308.14	TOP REB XS3L
C	1851989.71	6062661.85	309.77	TOP REB XS2L
C	1852004.94	6062679.47	307.90	TOP REB XS1L
C	1852058.78	6062489.78	301.13	TOP REB XS10R
C	1852049.11	6062500.43	300.03	TOP REB XS9R
C	1852049.62	6062500.61	299.96	BOT REB XS9R
C	1852042.50	6062508.94	301.61	TOP REB XS8R
C	1852037.51	6062519.04	301.74	TOP REB XS7R
C	1852034.28	6062534.01	302.55	TOP REB XS6R
C	1851992.13	6062528.45	302.58	TOP REB XS6L
C	1851993.73	6062516.73	301.61	TOP REB XS7L
C	1851997.98	6062497.22	301.51	TOP REB XS8L
C	1852003.12	6062478.68	301.72	TOP REB XS9L
C	1852009.98	6062464.05	301.10	TOP REB XS10L
C	1852043.26	6062664.67	308.30	TOP REB XS1R
D	1852517.08	6063094.09	356.55	PPD2
D	1852635.66	6063198.30	363.37	PPD3
D	1852530.48	6063167.67	362.94	PPD
D	1852478.55	6063071.62	353.01	TOP REB XS10R
D	1852494.53	6063082.69	352.81	TOP REB XS9R
D	1852495.05	6063082.35	351.96	BOT REB XS9R
D	1852503.49	6063097.82	355.52	TOP REB XS8R
D	1852515.42	6063105.98	355.89	TOP REB XS7R
D	1852529.86	6063109.67	357.60	TOP REB XS6R

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Table D.3 – Continued

Reach	Northing	Easting	Elevation	Description
D	1852505.87	6063131.92	357.48	TOP REB XS6L
D	1852498.54	6063124.78	355.95	TOP REB XS7L
D	1852488.30	6063114.37	355.35	TOP REB XS8L
D	1852479.96	6063101.61	352.60	TOP REB XS9L
D	1852479.51	6063102.03	352.04	BOT REB XS9L
D	1852465.18	6063092.16	352.97	TOP REB XS10L
D	1852677.68	6063220.75	372.48	TOP REB XS1R
D	1852661.14	6063219.74	364.87	TOP REB XS2R
D	1852653.05	6063211.35	363.89	TOP REB XS3R
D	1852652.38	6063194.90	372.86	TOP UP REB XS4R
D	1852609.19	6063218.50	364.78	TOP REB XS5L
D	1852622.97	6063229.45	369.16	TOP UP REB XS4L
D	1852635.89	6063243.17	363.90	TOP REB XS3L
D	1852648.04	6063247.80	364.86	TOP REB XS2L
D	1852661.76	6063253.66	367.30	TOP REB XS1L
D	1852638.51	6063197.87	364.76	TOP REB XS5R
E	1854582.28	6065303.16	631.69	PPE
E	1854568.56	6065221.48	627.37	PPE2
E	1854635.41	6065364.13	635.21	TOP REB XS1L
E	1854628.78	6065349.74	634.10	TOP REB XS2L
E	1854617.12	6065341.15	634.61	TOP REB XS3L
E	1854607.69	6065327.61	631.80	TOP REB XS4L
E	1854598.02	6065316.33	629.85	TOP REB XS5L
E	1854590.05	6065303.43	629.84	TOP REB XS6L
E	1854580.32	6065292.22	628.77	TOP REB XS7L
E	1854572.58	6065279.19	628.10	TOP REB XS8L
E	1854561.33	6065269.11	630.99	TOP REB XS9L
E	1854557.00	6065253.93	628.75	TOP REB XS10L
E	1854577.47	6065243.01	629.35	TOP REB XS10R
E	1854584.69	6065255.81	630.93	TOP REB XS9R
E	1854590.89	6065267.28	628.08	TOP REB XS8R
E	1854597.62	6065279.69	628.74	TOP REB XS7R
E	1854603.59	6065292.09	629.82	TOP REB XS6R
E	1854618.75	6065300.66	630.86	TOP REB XS5R
E	1854628.79	6065314.04	631.89	TOP REB XS4R
E	1854635.85	6065326.00	634.70	TOP REB XS3R
E	1854644.06	6065337.93	634.12	TOP REB XS2R
E	1854653.38	6065347.15	634.81	TOP REB XS1R
F	1852073.82	6063156.87	351.78	PPF3
F	1852041.64	6063244.30	355.36	PPF2
F	1851998.21	6063315.19	362.51	PPF
F	1851970.33	6063350.19	361.64	TOP REB XS1R
F	1851977.17	6063335.34	362.88	TOP REB XS2R
F	1851983.38	6063324.55	361.18	TOP REB XS3R
F	1851992.17	6063311.65	361.30	TOP REB XS4R
F	1851998.95	6063295.77	357.69	TOP REB XS5R
F	1852006.60	6063286.44	357.78	TOP REB XS6R
F	1852015.00	6063274.12	356.37	TOP REB XS7R
F	1852031.55	6063267.53	357.91	TOP REB XS8R
F	1852037.06	6063250.62	355.05	TOP REB XS9R
F	1852038.56	6063238.99	354.40	TOP REB XS10R
F	1852012.32	6063220.05	355.06	TOP REB XS10L

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Table D.3 – Continued

Reach	Northing	Easting	Elevation	Description
F	1852004.17	6063233.56	355.16	TOP REB XS9L
F	1851996.66	6063245.26	357.82	TOP REB XS8L
F	1851989.68	6063261.36	356.54	TOP REB XS7L
F	1851982.08	6063273.75	357.84	TOP REB XS6L
F	1851976.47	6063284.86	357.99	TOP REB XS5L
F	1851966.33	6063298.71	360.77	TOP REB XS4L
F	1851960.62	6063313.19	360.93	TOP REB XS3L
F	1851951.59	6063322.67	363.19	TOP REB XS2L
F	1851942.28	6063337.05	362.23	TOP REB XS1L

Table D.4: Adjusted longitudinal profile data.

Year	Reach	Point Number	Adjusted Dist (m)	Adjusted Elev (m)	Point Description
2002	A	1	0.00	25.50	TAILPOOL
2002	A	2	1.61	25.10	MIDPOOL2.16
2002	A	3	2.68	25.19	HEADPOOL.15
2002	A	4	6.55	25.74	TOPRIFF.58
2002	A	5	11.01	25.75	TOPRIFF.68
2002	A	6	15.17	25.98	TOPRIFF.50
2002	A	7	19.65	25.91	TAILRIFF.83
2002	A	8	23.38	25.99	HEADRIFF.71
2002	A	9	25.44	26.21	TOPRIFF.56
2002	A	10	26.26	26.22	TAILPOOL.62
2002	A	11	29.12	26.05	MIDPOOL1.25
2002	A	11.5	29.39	26.07	10
2002	A	12	32.32	26.31	HEADPOOL.50
2002	A	13	33.77	26.57	TOPRIFFTPOOL
2002	A	13.5	34.75	26.45	9
2002	A	14	36.41	26.24	MIDPOOL1.50
2002	A	14.5	38.73	26.46	8
2002	A	15	39.42	26.52	TOPPOOL.57
2002	A	16	42.70	26.53	TOPRIFF.20
2002	A	17	43.08	26.68	TAILRUN.40
2002	A	17.4	43.50	26.69	7
2002	A	17.5	47.04	26.84	6
2002	A	18	49.15	26.85	TAILRUN.40
2002	A	19	49.85	26.63	TAILRUN.40
2002	A	19.5	63.21	26.87	5
2002	A	20	64.16	26.87	TAILRIFF.83
2002	A	20.5	67.19	27.05	4
2002	A	21	67.52	27.07	TOPRIFF.60
2002	A	22	70.04	27.09	TAILPOOL.35
2002	A	23	71.40	26.81	MIDPOOL1.33
2002	A	23.5	72.40	27.10	3
2002	A	24	72.73	27.20	TOPRIFF.33
2002	A	25	74.36	27.02	TAILPOOL.79
2002	A	26	76.66	27.00	MIDPOOL1.08
2002	A	26.5	77.34	27.06	2
2002	A	27	79.10	27.21	HEADPOOL.63
2002	A	27.5	81.20	27.28	1
2002	A	28	83.25	27.34	BISRUN.62

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2002	A	29	86.57	27.41	TOPRIFF.46
2002	A	30	90.49	27.52	TOPRIFF.33
2002	A	31	96.68	27.54	TAILRIFF.58
2002	A	32	101.28	28.02	TOPRIFF.79
2003	A	1	24.33	26.16	MID RIFF
2003	A	2	25.28	26.25	TAIL POOL
2003	A	3	27.07	26.09	MID POOL
2003	A	3.5	29.39	26.19	10
2003	A	4	29.57	26.20	MID POOL
2003	A	5	31.36	26.31	HEAD POOL
2003	A	6	32.35	26.38	MID RIFF
2003	A	7	33.40	26.63	TAIL POOL
2003	A	7.5	34.75	26.53	9
2003	A	8	36.31	26.39	MID POOL
2003	A	8.5	38.73	26.52	8
2003	A	9	39.50	26.56	HEAD POOL
2003	A	10	43.14	26.61	MID RIFF
2003	A	10.5	43.50	26.72	7
2003	A	11	43.55	26.74	MID RIFF
2003	A	12	44.67	26.73	GLIDE
2003	A	13	46.76	26.76	GLIDE
2003	A	13.5	47.04	26.76	6
2003	A	14	49.41	26.74	GLIDE
2003	A	15	52.40	26.82	GLIDE
2003	A	16	55.75	26.85	GLIDE
2003	A	17	58.24	26.84	GLIDE
2003	A	18	58.74	26.88	MID RIFF
2003	A	19	59.42	26.86	MID RIFF
2003	A	20	60.07	26.89	MID RIFF
2003	A	21	60.81	26.98	TAIL POOL
2003	A	22	62.65	26.79	MID POOL
2003	A	22.5	63.21	26.84	5
2003	A	23	64.07	26.92	HEAD POOL
2003	A	24	65.70	27.04	MID RIFF
2003	A	24.5	67.19	27.07	4
2003	A	25	67.69	27.08	MID RIFF
2003	A	26	69.52	27.19	TAIL POOL
2003	A	27	70.80	27.04	MID POOL
2003	A	28	71.62	26.96	MID POOL
2003	A	29	72.38	27.14	HEAD POOL
2003	A	29.5	72.40	27.14	3
2003	A	30	72.92	27.20	TAIL POOL
2003	A	31	75.08	27.10	MID POOL
2003	A	31.5	77.34	27.20	2
2003	A	32	77.91	27.23	HEAD POOL
2003	A	33	80.26	27.34	MID RIFF
2003	A	33.5	81.20	27.35	1
2003	A	34	82.65	27.37	GLIDE
2003	A	35	84.89	27.43	GLIDE
2003	A	36	87.49	27.51	RIFF
2003	A	37	90.17	27.54	RIFF
2003	A	38	91.49	27.61	TAIL POOL

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2003	A	39	92.29	27.51	MID POOL
2003	A	40	94.44	27.57	MID POOL
2003	A	41	95.97	27.69	HEAD POOL
2003	A	42	97.63	27.66	MID RIFF
2004	A	1	22.55	26.19	MID RIFF
2004	A	2	24.75	26.21	MID RIFF
2004	A	3	26.72	26.22	MID RIFF
2004	A	4	28.24	26.31	TAIL POOL
2004	A	4.5	29.39	26.10	10
2004	A	5	29.66	26.05	MID POOL
2004	A	6	30.12	26.13	HEAD POOL
2004	A	7	30.47	26.63	TOP STEP
2004	A	8	32.70	26.61	MID RIFF
2004	A	9	34.73	26.67	MID RIFF
2004	A	9.5	34.75	26.67	9
2004	A	10	36.20	26.53	MID RIFF
2004	A	11	37.10	26.49	MID RIFF
2004	A	11.5	38.73	26.67	8
2004	A	12	39.25	26.72	MID RIFF
2004	A	13	41.53	26.76	MID RIFF
2004	A	14	43.00	26.64	MID RIFF
2004	A	14.5	43.50	26.66	7
2004	A	15	44.48	26.74	MID RIFF
2004	A	16	45.87	26.80	MID RIFF
2004	A	16.5	47.04	26.83	6
2004	A	17	47.46	26.84	MID RIFF
2004	A	18	49.10	26.82	MID RIFF
2004	A	19	51.18	27.00	MID RIFF
2004	A	20	52.94	26.98	MID RIFF
2004	A	21	54.48	26.93	MID RIFF
2004	A	22	55.90	27.03	MID RIFF
2004	A	23	57.71	27.06	MID RIFF
2004	A	24	59.07	26.95	MID RIFF
2004	A	25	61.01	27.03	MID RIFF
2004	A	26	62.59	26.93	MID RIFF
2004	A	26.5	63.21	26.94	5
2004	A	27	63.82	26.94	MID RIFF
2004	A	28	65.16	27.09	MID RIFF
2004	A	29	66.55	27.02	MID RIFF
2004	A	29.5	67.19	27.10	4
2004	A	30	67.51	27.15	MID RIFF
2004	A	31	69.28	27.17	MID RIFF
2004	A	32	71.38	27.16	MID RIFF
2004	A	32.5	72.40	27.15	3
2004	A	33	74.35	27.12	MID RIFF
2004	A	34	76.33	27.01	MID RIFF
2004	A	34.5	77.34	27.15	2
2004	A	35	77.76	27.21	MID RIFF
2004	A	36	79.52	27.31	MID RIFF
2004	A	37	81.03	27.29	MID RIFF
2004	A	37.5	81.20	27.30	1
2004	A	38	82.70	27.38	MID RIFF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2004	A	39	84.78	27.40	MID RIFF
2004	A	40	86.51	27.43	MID RIFF
2004	A	41	88.82	27.55	MID RIFF
2004	A	42	90.75	27.49	MID RIFF
2004	A	43	92.34	27.62	MID RIFF
2004	A	44	94.12	27.61	MID RIFF
2004	A	45	96.17	27.58	MID RIFF
2005	A	1	23.04	26.13	MID RIFF
2005	A	2	25.07	26.23	MID RIFF
2005	A	3	27.53	26.26	MID RIFF
2005	A	4	28.89	26.25	MID RIFF
2005	A	4.5	29.39	26.19	10
2005	A	5	30.26	26.08	MID RIFF
2005	A	6	30.86	26.17	BOTTOM ROCK STEP
2005	A	7	31.17	26.29	TOP ROCK STEP
2005	A	8	31.97	26.37	MID RIFF
2005	A	9	32.47	26.35	BOTTOM ROCK STEP
2005	A	10	32.97	26.54	TOP ROCK STEP
2005	A	11	33.96	26.51	MID RIFF
2005	A	11.5	34.75	26.55	9
2005	A	12	35.51	26.59	MID RIFF
2005	A	13	36.84	26.58	MID RIFF
2005	A	14	37.59	26.63	MID RIFF
2005	A	15	38.02	26.59	MID RIFF
2005	A	15.5	38.73	26.63	8
2005	A	16	39.05	26.65	MID RIFF
2005	A	17	40.35	26.61	MID RIFF
2005	A	18	41.97	26.67	MID RIFF
2005	A	19	42.96	26.65	MID RIFF
2005	A	19.5	43.50	26.69	7
2005	A	20	44.24	26.78	MID RIFF
2005	A	21	45.23	26.73	MID RIFF
2005	A	22	46.02	26.81	MID RIFF
2005	A	23	47.00	26.86	MID RIFF
2005	A	23.5	47.04	26.86	6
2005	A	24	48.20	26.77	MID RIFF
2005	A	25	49.27	26.77	MID RIFF
2005	A	26	49.83	26.88	MID RIFF
2005	A	27	51.05	26.97	MID RIFF
2005	A	28	52.10	26.93	MID RIFF
2005	A	29	53.16	26.95	MID RIFF
2005	A	30	55.62	27.05	MID RIFF
2005	A	31	56.76	26.94	MID RIFF
2005	A	32	59.70	26.94	MID RIFF
2005	A	33	63.16	26.86	MID RIFF
2005	A	33.5	63.21	26.87	5
2005	A	34	63.77	26.94	MID RIFF
2005	A	35	64.96	27.05	MID RIFF
2005	A	36	65.69	27.06	MID RIFF
2005	A	37	67.01	27.01	MID RIFF
2005	A	37.5	67.19	27.03	4
2005	A	38	67.43	27.05	BOTTOM ROCK STEP

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2005	A	39	67.68	27.20	TOP ROCK STEP
2005	A	40	69.37	27.21	MID RIFF
2005	A	41	70.81	27.18	MID RIFF
2005	A	42	72.32	27.15	MID RIFF
2005	A	42.5	72.40	27.15	3
2005	A	43	73.78	27.17	MID RIFF
2005	A	44	75.33	27.02	TAIL POOL
2005	A	45	75.91	26.99	MID POOL
2005	A	46	76.36	27.02	HEAD POOL
2005	A	47	77.07	27.11	MID RIFF
2005	A	47.5	77.34	27.14	2
2005	A	48	77.60	27.18	MID RIFF
2005	A	49	77.98	27.29	MID RIFF
2005	A	50	79.44	27.30	MID RIFF
2005	A	51	80.35	27.28	MID RIFF
2005	A	51.5	81.20	27.30	1
2005	A	52	81.84	27.31	MID RIFF
2005	A	53	83.77	27.31	MID RIFF
2005	A	54	85.48	27.40	MID RIFF
2005	A	55	87.17	27.43	MID RIFF
2006	A	1	19.29	26.02	MID RIFF
2006	A	2	21.33	26.12	MID RIFF
2006	A	3	23.35	26.22	MID RIFF
2006	A	4	25.56	26.31	MID RIFF
2006	A	5	26.27	26.22	TAIL POOL
2006	A	6	27.49	25.98	MID POOL
2006	A	6.5	29.39	26.03	10
2006	A	7	29.73	26.04	MID POOL
2006	A	8	31.38	26.14	MID POOL
2006	A	9	32.12	26.30	HEAD POOL
2006	A	10	33.53	26.52	MID RIFF
2006	A	11	34.45	26.49	TAIL POOL
2006	A	11.5	34.75	26.48	9
2006	A	12	36.05	26.40	MID POOL
2006	A	13	37.36	26.45	HEAD POOL
2006	A	13.5	38.73	26.50	8
2006	A	14	39.30	26.51	MID RIFF
2006	A	15	42.04	26.47	MID RIFF
2006	A	16	43.15	26.46	BOT ROCK STEP
2006	A	16.5	43.50	26.59	7
2006	A	17	43.66	26.67	TOP ROCK STEP
2006	A	18	45.16	26.59	MID RIFF
2006	A	18.5	47.04	26.74	6
2006	A	19	48.36	26.81	MID RIFF
2006	A	20	53.87	26.88	MID RIFF
2006	A	21	57.35	26.73	MID RIFF
2006	A	22	60.86	26.89	MID RIFF
2006	A	22.5	63.21	26.96	5
2006	A	23	64.93	27.02	MID RIFF
2006	A	23.5	67.19	27.12	4
2006	A	24	67.36	27.13	TAIL POOL
2006	A	25	69.03	26.90	MID POOL

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2006	A	26	70.53	27.04	HEAD POOL
2006	A	27	71.83	27.18	MID RIFF
2006	A	27.5	72.40	27.17	3
2006	A	28	73.66	27.15	MID RIFF
2006	A	29	74.94	27.11	TAIL POOL
2006	A	30	76.51	26.96	MID POOL
2006	A	30.5	77.34	27.16	2
2006	A	31	77.47	27.19	HEAD POOL
2006	A	32	81.04	27.26	MID RIFF
2006	A	32.5	81.20	27.27	1
2006	A	33	83.31	27.29	MID RIFF
2006	A	34	86.14	27.34	MID RIFF
2007	A	1	22.08	26.19	MID RIFF
2007	A	2	23.72	26.25	MID RIFF
2007	A	3	25.38	26.30	TAIL POOL
2007	A	4	27.35	26.00	MID POOL
2007	A	4.5	29.39	26.08	10
2007	A	5	29.57	26.09	MID POOL
2007	A	6	31.00	26.13	MID POOL
2007	A	7	32.41	26.33	HEAD POOL
2007	A	8	33.33	26.44	MID RIFF
2007	A	9	34.44	26.51	TAIL POOL
2007	A	9.5	34.75	26.49	9
2007	A	10	36.44	26.38	MID POOL
2007	A	11	37.69	26.50	HEAD POOL
2007	A	11.5	38.73	26.51	8
2007	A	12	38.74	26.51	MID RIFF
2007	A	13	39.55	26.51	TAIL POOL
2007	A	14	40.46	26.46	MID POOL
2007	A	15	41.41	26.52	MID POOL
2007	A	16	42.31	26.46	HEAD POOL
2007	A	16.5	43.50	26.60	7
2007	A	17	43.57	26.61	MID RIFF
2007	A	18	44.22	26.63	TAIL POOL
2007	A	19	45.23	26.58	MID POOL
2007	A	20	45.64	26.58	HEAD POOL
2007	A	21	46.51	26.71	MID RIFF
2007	A	21.5	47.04	26.75	6
2007	A	22	49.14	26.86	MID RIFF
2007	A	23	52.60	26.93	TAIL POOL
2007	A	24	55.26	26.89	MID POOL
2007	A	25	56.62	26.74	MID POOL
2007	A	26	59.01	26.89	HEAD POOL
2007	A	27	60.63	26.96	MID RIFF
2007	A	28	62.81	26.89	MID RIFF
2007	A	28.5	63.21	26.92	5
2007	A	29	64.74	27.02	MID RIFF
2007	A	29.5	67.19	27.12	4
2007	A	30	67.80	27.14	TAIL POOL
2007	A	31	69.14	27.00	MID POOL
2007	A	32	71.13	27.19	HEAD POOL
2007	A	32.5	72.40	27.17	3

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2007	A	33	72.55	27.16	MID RIFF
2007	A	34	73.94	27.15	TAIL POOL
2007	A	35	76.31	26.98	MID POOL
2007	A	35.5	77.34	27.11	2
2007	A	36	77.73	27.16	HEAD POOL
2007	A	37	79.69	27.29	MID RIFF
2007	A	37.5	81.20	27.31	1
2007	A	38	83.15	27.32	MID RIFF
2007	A	39	85.65	27.33	MID RIFF
2008	A	1	16.67	25.77	MID POOL
2008	A	2	18.17	25.78	HEAD POOL
2008	A	3	19.95	26.06	MID RIFF
2008	A	4	21.17	26.02	MID RIFF
2008	A	5	22.26	26.17	MID RIFF
2008	A	6	22.90	26.19	MID RIFF
2008	A	7	23.96	26.35	MID RIFF
2008	A	8	25.88	26.44	TAIL POOL
2008	A	9	27.45	26.02	MID POOL
2008	A	9.5	29.39	26.02	10
2008	A	10	29.43	26.02	MID POOL
2008	A	11	30.14	26.21	TAIL RIFF
2008	A	12	31.17	26.30	MID RIFF
2008	A	13	31.99	26.35	MID RIFF
2008	A	14	32.95	26.47	MID RIFF
2008	A	15	33.52	26.52	MID RIFF
2008	A	16	34.32	26.54	TAIL POOL
2008	A	16.5	34.75	26.49	9
2008	A	17	35.17	26.44	MID POOL
2008	A	18	36.29	26.37	MID POOL
2008	A	19	37.32	26.49	HEAD POOL
2008	A	20	37.96	26.52	MID RIFF
2008	A	21	38.34	26.54	MID RIFF
2008	A	21.5	38.73	26.54	8
2008	A	22	39.08	26.54	MID RIFF
2008	A	23	39.44	26.58	MID RIFF
2008	A	24	39.96	26.60	MID RIFF
2008	A	25	40.65	26.56	MID RIFF
2008	A	26	41.56	26.56	MID RIFF
2008	A	27	42.30	26.62	MID RIFF
2008	A	28	42.59	26.59	TAIL POOL
2008	A	29	43.18	26.47	MID POOL
2008	A	29.5	43.50	26.52	7
2008	A	30	43.55	26.54	HEAD POOL
2008	A	31	43.87	26.58	MID RIFF
2008	A	32	44.61	26.62	MID RIFF
2008	A	33	45.18	26.57	MID RIFF
2008	A	34	45.94	26.61	MID RIFF
2008	A	35	46.31	26.60	MID RIFF
2008	A	36	46.47	26.64	MID RIFF
2008	A	37	46.77	26.59	MID RIFF
2008	A	37.5	47.04	26.71	6
2008	A	38	47.09	26.73	MID RIFF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2008	A	39	47.70	26.70	TAIL POOL
2008	A	40	48.46	26.68	MID POOL
2008	A	41	49.03	26.67	HEAD POOL
2008	A	42	49.39	26.77	MID RIFF
2008	A	43	50.08	26.78	MID RIFF
2008	A	44	50.91	26.80	MID RIFF
2008	A	45	52.03	26.86	MID RIFF
2008	A	46	52.85	26.88	MID RIFF
2008	A	47	53.84	26.87	MID RIFF
2008	A	48	54.28	26.92	MID RIFF
2008	A	49	55.01	26.93	MID RIFF
2008	A	50	55.97	26.93	MID RIFF
2008	A	51	56.44	26.90	MID RIFF
2008	A	52	56.81	26.95	MID RIFF
2008	A	53	57.32	26.91	TAIL POOL
2008	A	54	58.20	26.85	MID POOL
2008	A	55	59.34	26.87	HEAD POOL
2008	A	56	59.83	26.94	MID RIFF
2008	A	57	60.51	26.92	MID RIFF
2008	A	58	61.10	26.99	MID RIFF
2008	A	59	61.53	27.00	MID RIFF
2008	A	60	62.02	27.01	MID RIFF
2008	A	61	62.57	27.01	MID RIFF
2008	A	62	63.11	26.98	MID RIFF
2008	A	62.5	63.21	26.98	5
2008	A	63	63.66	26.97	MID RIFF
2008	A	64	64.26	26.95	MID RIFF
2008	A	65	64.77	26.99	MID RIFF
2008	A	66	65.34	27.00	MID RIFF
2008	A	67	66.08	27.00	MID RIFF
2008	A	68	66.62	27.07	MID RIFF
2008	A	69	67.10	27.05	MID RIFF
2008	A	69.5	67.19	27.05	4
2008	A	70	67.92	27.01	MID RIFF
2008	A	71	68.43	27.08	MID RIFF
2008	A	72	68.98	27.05	MID RIFF
2008	A	73	69.27	27.08	TAIL POOL
2008	A	74	69.91	26.97	MID POOL
2008	A	75	70.27	27.04	HEAD POOL
2008	A	76	70.55	27.11	MID RIFF
2008	A	77	71.09	27.14	MID RIFF
2008	A	78	71.49	27.15	MID RIFF
2008	A	79	72.29	27.13	MID RIFF
2008	A	79.5	72.40	27.13	3
2008	A	80	73.44	27.08	MID RIFF
2008	A	81	74.31	27.12	MID RIFF
2008	A	82	74.77	27.11	MID RIFF
2008	A	83	75.16	27.05	TAIL POOL
2008	A	84	75.96	26.94	MID POOL
2008	A	85	76.78	27.08	HEAD POOL
2008	A	86	77.24	27.13	MID RIFF
2008	A	86.5	77.34	27.14	2

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2008	A	87	78.15	27.28	MID RIFF
2008	A	88	78.61	27.25	MID RIFF
2008	A	89	79.11	27.31	MID RIFF
2008	A	90	79.72	27.25	MID RIFF
2008	A	91	80.40	27.28	MID RIFF
2008	A	91.5	81.20	27.26	1
2008	A	92	81.51	27.26	MID RIFF
2008	A	93	83.27	27.28	MID RIFF
2008	A	94	83.93	27.26	MID RIFF
2008	A	95	85.79	27.33	MID RIFF
2008	A	96	87.26	27.36	MID RIFF
2008	A	97	88.50	27.43	MID RIFF
2008	A	98	89.89	27.43	MID RIFF
2008	A	99	90.86	27.49	MID RIFF
2008	A	100	91.81	27.50	MID RIFF
2008	A	101	92.51	27.42	MID RIFF
2008	A	102	93.45	27.40	MID RIFF
2002	B	1	-42.06	36.10	TPOOL.41
2002	B	2	-40.18	36.07	MIDPOOL.60
2002	B	3	-38.79	36.10	HEADPOOL.45TG
2002	B	4	-33.91	36.09	HEADGLI.54
2002	B	5	-33.47	36.24	TAILGLI.40
2002	B	6	-31.94	36.21	MIDGLI.53
2002	B	7	-29.64	36.30	HEADGLI.19
2002	B	8	-29.39	36.36	TAILRIFF.25
2002	B	9	-27.15	36.38	HEADRIFF.36
2002	B	10	-23.98	36.35	MIDGLI.61
2002	B	11	-20.18	36.43	HEADGLI.45
2002	B	12	-19.79	36.45	TAILRIFF.54
2002	B	13	-14.03	36.74	HEADRIFF..27
2002	B	14	-13.94	36.75	TAILGLI.35
2002	B	15	-11.15	36.70	MIDGLI.54
2002	B	16	-6.61	36.76	HEADGLI.43
2002	B	17	-6.37	36.72	TAILRIFF.54
2002	B	18	-5.92	36.70	HEADRIFF.56
2002	B	19	-5.39	36.89	TAILRIFF.31
2002	B	20	-3.41	36.95	HEADRIFF.38TGLI
2002	B	21	-2.26	36.88	MIDGLI.67
2002	B	22	-0.32	36.95	HEADGLI.50TPOOL
2002	B	23	0.13	36.90	MIDPOOL.63
2002	B	24	1.01	37.04	HEADPOOL.28TRIFF
2002	B	25	1.93	37.11	BIS.35
2002	B	26	3.60	37.18	HEADRIFF.43TGLI
2002	B	27	5.25	37.12	MIDGLI.65
2002	B	28	7.25	37.19	HEADGLI.49TGLI
2002	B	29	8.93	37.20	MIDGLI.59
2002	B	30	10.81	37.18	HEADGLI.46
2002	B	31	12.67	37.20	MIDGLI.55
2002	B	32	13.60	37.31	BIS.23
2002	B	33	14.28	37.23	MID.54
2002	B	33.5	15.21	37.28	10
2002	B	34	16.39	37.34	TAILRIFF.24

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2002	B	34.5	19.65	37.35	9
2002	B	35	21.78	37.35	HEADRIFF.28
2002	B	36	22.02	37.36	TAILRIFF.46
2002	B	36.5	25.00	37.43	8
2002	B	37	26.71	37.47	HEADRIFF.24TPOOL
2002	B	38	28.57	37.36	MIDPOOL.62
2002	B	39	29.46	37.47	BIS.31
2002	B	39.5	29.62	37.45	7
2002	B	40	30.71	37.32	MIDPOOL.76
2002	B	41	31.28	37.48	HEADPOOL.29
2002	B	42	31.80	37.55	TAILRIFF.51
2002	B	42.5	34.07	37.55	6
2002	B	43	34.25	37.55	HEADRIFF.32
2002	B	44	35.18	37.70	TAILPOOL.30
2002	B	45	36.60	37.54	MIDPOOL.81
2002	B	46	38.21	37.59	HEADPOOL.69
2002	B	46.5	38.47	37.74	5
2002	B	47	38.48	37.74	TAILRIFF.20
2002	B	48	39.37	37.72	HEADRIFF.25
2002	B	49	39.64	37.74	TAILPOOL.31
2002	B	50	41.37	37.70	MIDPOOL.56
2002	B	51	43.10	37.78	HEADPOOL.29
2002	B	51.5	43.37	37.83	4
2002	B	52	43.80	37.93	TOPSTEP.4
2002	B	53	45.54	38.08	HEADRIFF.17
2002	B	54	46.07	38.04	TAILPOOL.41
2002	B	55	47.45	38.04	MIDPOOL.50
2002	B	56	47.60	38.05	BIS.36
2002	B	57	48.36	37.99	MIDPOOL.67
2002	B	57.5	48.53	37.99	3
2002	B	58	50.60	38.08	HEADPOOL.35
2002	B	59	53.25	38.31	TOPRIFF.33
2002	B	59.4	53.29	38.31	2
2002	B	59.5	56.65	38.36	1
2002	B	60	63.49	38.39	TOPRIFF.29
2002	B	61	68.10	38.53	TAILPOOL.12TRIFF
2002	B	62	70.00	38.42	MIDPOOL.55
2002	B	63	72.05	38.44	HEADPOOL.53
2002	B	64	72.28	38.49	TAILGLI.37
2002	B	65	73.67	38.39	MIDGLI.69
2002	B	66	74.65	38.49	BIS.24
2002	B	67	79.48	38.48	HEADGLI.37
2002	B	68	79.85	38.58	TAILGLI.20
2002	B	69	81.70	38.44	MIDGLI.86
2002	B	70	82.40	38.46	HEADGLI.61
2002	B	71	82.62	38.60	TAILRIFF.17
2002	B	72	85.81	38.88	HEADRIFF.23
2002	B	73	90.50	39.05	TOPRIFF.19TPOOL
2002	B	74	94.44	39.05	BIS.30
2002	B	75	97.87	38.61	MIDPOOL1.58
2002	B	76	99.17	38.75	HEADPOOL.86
2003	B	1	11.86	37.30	GLIDE

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2003	B	1.5	15.21	37.30	10
2003	B	2	16.36	37.30	GLIDE
2003	B	2.5	19.65	37.35	9
2003	B	3	21.56	37.39	GLIDE
2003	B	3.5	25.00	37.41	8
2003	B	4	25.12	37.41	GLIDE
2003	B	5	27.14	37.47	TAIL POOL
2003	B	6	29.16	37.38	MID POOL
2003	B	6.5	29.62	37.40	7
2003	B	7	31.33	37.45	HEAD POOL
2003	B	8	33.19	37.60	MID RIFF
2003	B	8.5	34.07	37.61	6
2003	B	9	34.99	37.63	TAIL POOL
2003	B	10	36.78	37.56	MID POOL
2003	B	11	38.28	37.69	HEAD POOL
2003	B	11.5	38.47	37.69	5
2003	B	12	41.20	37.71	GLIDE
2003	B	12.5	43.37	37.74	4
2003	B	13	43.47	37.74	RIFF
2003	B	14	45.35	37.86	TAIL POOL
2003	B	15	47.79	38.02	MID POOL
2003	B	15.5	48.53	38.03	3
2003	B	16	50.70	38.07	HEAD POOL
2003	B	16.5	53.29	38.19	2
2003	B	17	54.21	38.24	MID RIFF
2003	B	17.5	56.65	38.31	1
2003	B	18	57.91	38.34	MID RIFF
2003	B	19	61.21	38.46	MID RIFF
2003	B	20	63.39	38.52	TAIL POOL
2003	B	21	66.79	38.38	MID POOL
2003	B	22	70.73	38.38	MID POOL
2003	B	23	74.21	38.51	HEAD POOL
2004	B	1	12.64	37.22	MID RIFF
2004	B	2	13.30	37.31	MID RIFF
2004	B	2.5	15.21	37.33	10
2004	B	3	16.67	37.35	MID RIFF
2004	B	3.5	19.65	37.33	9
2004	B	4	21.12	37.32	MID RIFF
2004	B	5	22.57	37.41	MID RIFF
2004	B	6	24.71	37.46	MID RIFF
2004	B	6.5	25.00	37.46	8
2004	B	7	27.23	37.48	MID RIFF
2004	B	7.5	29.62	37.54	7
2004	B	8	29.64	37.54	MID RIFF
2004	B	9	31.46	37.48	MID RIFF
2004	B	10	33.33	37.54	MID RIFF
2004	B	10.5	34.07	37.55	6
2004	B	11	35.21	37.57	MID RIFF
2004	B	12	37.01	37.61	MID RIFF
2004	B	13	38.36	37.66	MID RIFF
2004	B	13.5	38.47	37.66	5
2004	B	14	39.81	37.73	MID RIFF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2004	B	15	41.33	37.73	MID RIFF
2004	B	16	43.31	37.77	BOT STEP
2004	B	16.5	43.37	37.80	4
2004	B	17	43.74	37.94	TOP STEP
2004	B	18	45.01	37.89	MID RIFF
2004	B	19	48.42	38.06	MID RIFF
2004	B	19.5	48.53	38.06	3
2004	B	20	50.40	38.06	MID RIFF
2004	B	21	51.70	38.16	MID RIFF
2004	B	21.5	53.29	38.24	2
2004	B	22	53.82	38.27	MID RIFF
2004	B	23	55.07	38.34	MID RIFF
2004	B	23.5	56.65	38.40	1
2004	B	24	57.00	38.41	MID RIFF
2004	B	25	58.42	38.44	MID RIFF
2004	B	26	60.07	38.41	GLIDE
2004	B	27	64.18	38.38	MID GLIDE
2004	B	28	67.50	38.36	TOP GLIDE
2004	B	29	70.12	38.46	MID RIFF
2004	B	30	72.37	38.50	MID RIFF
2004	B	31	75.02	38.62	MID RIFF
2005	B	41	6.69	37.20	MID RIFF
2005	B	40	7.79	37.21	MID RIFF
2005	B	39	8.80	37.15	MID RIFF
2005	B	38	9.44	37.28	MID RIFF
2005	B	37	11.81	37.30	MID RIFF
2005	B	36	12.95	37.38	MID RIFF
2005	B	35.5	15.21	37.33	10
2005	B	35	15.27	37.33	MID RIFF
2005	B	34	17.21	37.36	MID RIFF
2005	B	33.5	19.65	37.50	9
2005	B	33	20.42	37.54	MID RIFF
2005	B	32	22.40	37.42	MID RIFF
2005	B	31	24.38	37.51	MID RIFF
2005	B	30.5	25.00	37.53	8
2005	B	30	25.46	37.54	MID RIFF
2005	B	29	26.34	37.57	MID RIFF
2005	B	28	27.25	37.57	MID RIFF
2005	B	27	28.43	37.50	MID RIFF
2005	B	26.5	29.62	37.50	7
2005	B	26	29.62	37.50	MID RIFF
2005	B	25	30.56	37.50	MID RIFF
2005	B	24	31.38	37.48	MID RIFF
2005	B	23	32.60	37.51	MID RIFF
2005	B	22	33.48	37.53	MID RIFF
2005	B	21.5	34.07	37.54	6
2005	B	21	34.74	37.55	MID RIFF
2005	B	20	35.76	37.59	MID RIFF
2005	B	19	36.73	37.58	MID RIFF
2005	B	18	37.64	37.62	MID RIFF
2005	B	17	38.44	37.64	MID RIFF
2005	B	16.5	38.47	37.65	5

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2005	B	16	38.88	37.68	MID RIFF
2005	B	15	40.25	37.77	MID RIFF
2005	B	14	41.95	37.77	MID RIFF
2005	B	13	43.37	37.77	BOTTOM ROCK STEP
2005	B	12.5	43.37	37.77	4
2005	B	12	43.64	37.95	TOP ROCK STEP
2005	B	11	44.59	37.92	MID RIFF
2005	B	10	45.33	37.98	BOTTOM ROCK STEP
2005	B	9	45.57	38.04	TOP ROCK STEP
2005	B	8	46.51	38.03	MID RIFF
2005	B	7	48.16	38.07	MID RIFF
2005	B	6.5	48.53	38.07	3
2005	B	6	49.77	38.04	MID RIFF
2005	B	5	50.67	38.15	MID RIFF
2005	B	4	51.98	38.23	MID RIFF
2005	B	3.5	53.29	38.27	2
2005	B	3	53.49	38.27	MID RIFF
2005	B	2	55.53	38.31	MID RIFF
2005	B	1.5	56.65	38.34	1
2005	B	1	57.91	38.38	MID RIFF
2006	B	49	7.29	36.89	MID RIF
2006	B	48	7.53	36.95	MID RIF
2006	B	47	8.37	37.03	MID RIF
2006	B	46	8.77	36.99	MID RIF
2006	B	45	9.85	36.98	MID RIF
2006	B	44	10.73	37.07	MID RIF
2006	B	43	11.33	37.20	MID RIF
2006	B	42	12.83	37.28	MID RIF
2006	B	41	13.59	37.24	MID RIF
2006	B	40	14.29	37.34	MID RIF
2006	B	39	14.91	37.37	MID RIF
2006	B	38.5	15.21	37.36	10
2006	B	38	16.98	37.26	AFA
2006	B	37	17.89	37.22	MID RIF
2006	B	36	19.14	37.39	MID RIF
2006	B	35.5	19.65	37.42	9
2006	B	35	20.09	37.45	MID RIF
2006	B	34	23.44	37.50	MID RIF
2006	B	33.5	25.00	37.51	8
2006	B	33	26.81	37.52	MID RIF
2006	B	32	28.78	37.55	MID RIF
2006	B	31.5	29.62	37.55	7
2006	B	31	30.18	37.55	MID RIF
2006	B	30	31.76	37.52	MID RIF
2006	B	29	33.84	37.55	MID RIF
2006	B	28.5	34.07	37.54	6
2006	B	28	35.27	37.51	MID RIF
2006	B	27	36.03	37.57	MID RIF
2006	B	26	37.12	37.53	MID RIF
2006	B	25	37.69	37.62	MID RIF
2006	B	24	38.40	37.69	MID RIF
2006	B	23.5	38.47	37.70	5

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2006	B	23	39.13	37.73	MID RIF
2006	B	22	39.55	37.70	MID RIF
2006	B	21	40.41	37.73	MID RIF
2006	B	20	41.36	37.74	MID RIF
2006	B	19	42.31	37.73	MID RIF
2006	B	18.5	43.37	37.77	4
2006	B	18	43.42	37.77	BOTTOM LOG STEP
2006	B	17	43.65	37.89	TOP LOG STEP
2006	B	16	45.22	37.91	MID RIF
2006	B	15	45.79	37.97	MID RIF
2006	B	14	46.89	37.99	MID RIF
2006	B	13.5	48.53	38.03	3
2006	B	13	48.91	38.04	MID RIF
2006	B	12	49.52	38.12	MID RIF
2006	B	11	50.24	38.08	MID RIF
2006	B	10	50.88	38.14	MID RIF
2006	B	9	51.79	38.12	MID RIF
2006	B	8	52.32	38.20	MID RIF
2006	B	7	53.04	38.22	MID RIF
2006	B	6.5	53.29	38.24	2
2006	B	6	53.88	38.27	MID RIF
2006	B	5	54.83	38.28	MID RIF
2006	B	4	55.73	38.33	MID RIF
2006	B	3	56.45	38.32	MID RIF
2006	B	2.5	56.65	38.32	1
2006	B	2	57.27	38.33	MID RIF
2006	B	1	58.14	38.33	MID RIF
2007	B	1	6.61	36.91	TAIL POOL
2007	B	2	7.87	37.03	MID RIFF
2007	B	3	9.70	37.06	MID RIFF
2007	B	4	11.60	37.20	MID RIFF
2007	B	5	13.17	37.31	MID RIFF
2007	B	6	14.59	37.38	TAIL POOL
2007	B	6.5	15.21	37.24	10
2007	B	7	15.22	37.24	MID POOL
2007	B	8	16.78	37.28	MID POOL
2007	B	9	18.57	37.37	HEAD POOL
2007	B	9.5	19.65	37.43	9
2007	B	10	20.99	37.49	MID RIFF
2007	B	11	24.68	37.48	MID RIFF
2007	B	11.5	25.00	37.48	8
2007	B	12	27.86	37.51	MID RIFF
2007	B	12.5	29.62	37.56	7
2007	B	13	30.26	37.58	MID RIFF
2007	B	14	33.31	37.51	MID RIFF
2007	B	14.5	34.07	37.55	6
2007	B	15	34.83	37.59	MID RIFF
2007	B	16	36.16	37.57	MID RIFF
2007	B	17	37.38	37.70	MID RIFF
2007	B	17.5	38.47	37.76	5
2007	B	18	39.39	37.80	MID RIFF
2007	B	19	41.48	37.78	MID RIFF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2007	B	19.5	43.37	37.90	4
2007	B	20	44.45	37.96	MID RIFF
2007	B	21	46.13	38.01	MID RIFF
2007	B	22	48.18	38.05	MID RIFF
2007	B	22.5	48.53	38.06	3
2007	B	23	49.31	38.11	MID RIFF
2007	B	24	51.06	38.11	MID RIFF
2007	B	25	52.41	38.24	MID RIFF
2007	B	25.5	53.29	38.28	2
2007	B	26	54.17	38.32	MID RIFF
2007	B	27	56.64	38.32	MID RIFF
2007	B	27.5	56.65	38.32	1
2007	B	28	58.55	38.38	MID RIFF
2007	B	29	59.73	38.39	TAIL POOL
2007	B	30	61.50	38.25	MID POOL
2007	B	31	63.77	38.39	MID POOL
2007	B	32	66.14	38.23	MID POOL
2007	B	33	68.89	38.43	HEAD POOL
2008	B	1	6.04	36.79	MID POOL
2008	B	2	7.52	36.83	HEAD POOL
2008	B	3	8.34	36.93	MID RIFF
2008	B	4	8.87	36.91	MID RIFF
2008	B	5	9.69	36.92	MID RIFF
2008	B	6	11.29	37.14	MID RIFF
2008	B	7	12.31	37.11	MID RIFF
2008	B	8	13.01	37.17	MID RIFF
2008	B	9	14.60	37.29	MID RIFF
2008	B	9.5	15.21	37.31	10
2008	B	10	15.63	37.32	MID RIFF
2008	B	11	16.50	37.34	MID RIFF
2008	B	12	18.73	37.33	MID RIFF
2008	B	12.5	19.65	37.35	9
2008	B	13	20.17	37.36	MID RIFF
2008	B	14	21.68	37.34	MID RIFF
2008	B	15	22.66	37.46	MID RIFF
2008	B	16	24.17	37.46	MID RIFF
2008	B	16.5	25.00	37.47	8
2008	B	17	25.76	37.47	MID RIFF
2008	B	18	27.94	37.41	MID RIFF
2008	B	19	29.24	37.47	MID RIFF
2008	B	19.5	29.62	37.48	7
2008	B	20	32.10	37.52	MID RIFF
2008	B	21	33.27	37.51	MID RIFF
2008	B	21.5	34.07	37.56	6
2008	B	22	34.56	37.59	MID RIFF
2008	B	23	35.70	37.61	TAIL POOL
2008	B	24	37.11	37.50	MID POOL
2008	B	24.5	38.47	37.59	5
2008	B	25	38.60	37.60	HEAD POOL
2008	B	26	39.70	37.86	MID RIFF
2008	B	27	41.04	37.92	MID RIFF
2008	B	28	41.89	37.87	MID RIFF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2008	B	28.5	43.37	37.95	4
2008	B	29	44.64	38.00	MID RIFF
2008	B	30	45.98	38.01	MID RIFF
2008	B	31	48.35	38.05	MID RIFF
2008	B	31.5	48.53	38.04	3
2008	B	32	48.97	38.03	MID RIFF
2008	B	33	49.83	38.09	MID RIFF
2008	B	34	50.68	38.09	MID RIFF
2008	B	35	51.82	38.14	MID RIFF
2008	B	36	52.99	38.23	MID RIFF
2008	B	36.5	53.29	38.24	2
2008	B	37	54.48	38.30	MID RIFF
2008	B	38	55.73	38.34	MID RIFF
2008	B	38.5	56.65	38.33	1
2008	B	39	56.85	38.33	MID RIFF
2002	C	1	11.28	89.13	BIS.52
2002	C	1.5	14.48	89.22	10
2002	C	2	17.05	89.29	BIS.65
2002	C	2.5	19.86	89.51	9
2002	C	3	20.20	89.53	BIS.52
2002	C	4	23.27	89.55	MIDPOOL.82
2002	C	4.5	26.26	89.74	8
2002	C	5	28.06	89.86	BIS.38
2002	C	6	30.54	89.98	MIDRUN.51
2002	C	7	32.54	89.97	MSC4TW.64
2002	C	7.5	32.62	89.98	7
2002	C	8	36.71	90.18	MSC5TW.62
2002	C	9	37.48	90.05	TOPRIFF.62
2002	C	9.5	38.34	90.07	6
2002	C	10	39.57	90.10	TAILPOOL.72
2002	C	11	42.29	89.42	MIDPOOL3.51
2002	C	12	43.17	89.56	BOTTJAM2.53
2002	C	13	43.30	90.69	TAIPODJ.20
2002	C	14	44.96	90.48	MIDPOOL1.14
2002	C	15	45.92	90.66	HEADPOOL.72
2002	C	16	47.00	90.80	BOTRIFF.21
2002	C	17	48.08	90.96	TOPRIFF.50
2002	C	18	49.76	90.95	TAILPOOL.42
2002	C	19	50.56	90.99	MIDPOOL.50
2002	C	20	53.79	90.77	BOTTJAM1.12
2002	C	21	54.02	91.68	TOPJAM.22
2002	C	22	57.94	91.84	TOPRIFF.50
2002	C	23	60.83	91.79	MIDRIFBND.35
2002	C	24	64.07	91.90	TAILPOOL.43
2002	C	24.5	66.25	91.69	5
2002	C	25	67.35	91.58	MIDPOOL1.52
2002	C	26	69.02	91.89	BOTRIFTPO.40
2002	C	26.5	71.42	91.99	4
2002	C	27	73.53	92.08	TOPRIFF.52
2002	C	27.5	75.83	92.11	3
2002	C	28	76.56	92.12	TOPRIFF.29
2002	C	28.5	79.71	92.12	2

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2002	C	29	80.54	92.12	TAILPOOL.48
2002	C	30	83.17	91.80	MIDPOOL1.32
2002	C	31	84.78	92.21	TOPPOOL.46
2002	C	32	85.87	92.24	TOPRIFF.47
2002	C	32.5	86.06	92.25	1
2002	C	33	90.20	92.34	TOPRIFF.49
2002	C	34	92.35	92.54	TOPRIFF.24
2002	C	35	93.71	92.52	TOPRIFF.26
2002	C	36	99.47	92.50	TAILPOOL.59
2002	C	37	100.91	92.39	MIDPOOL1.0
2002	C	38	102.19	92.56	TOPPOOL.43
2002	C	39	104.61	92.59	BEND.50
2002	C	40	108.10	92.69	TOPRIFF.48
2003	C	1	0.75	88.77	MID RIFF
2003	C	2	3.79	88.92	MID RIFF
2003	C	3	5.55	89.08	TAIL POOL
2003	C	4	8.48	89.00	MID POOL
2003	C	5	10.45	88.99	HEAD POOL
2003	C	6	11.26	89.11	MID RIFF
2003	C	7	12.75	89.15	MID RIFF
2003	C	7.5	14.48	89.22	10
2003	C	8	14.64	89.22	MID RIFF
2003	C	9	16.15	89.32	MID RIFF
2003	C	10	17.65	89.43	TAIL POOL
2003	C	11	19.28	89.40	MID POOL
2003	C	12	19.48	89.44	HEAD POOL
2003	C	12.5	19.86	89.51	9
2003	C	13	20.89	89.65	MID RIFF
2003	C	14	22.91	89.59	GLIDE
2003	C	15	26.11	89.66	GLIDE
2003	C	15.5	26.26	89.66	8
2003	C	16	27.80	89.67	MID RIFF
2003	C	17	28.68	89.88	MID RIFF
2003	C	18	30.56	89.97	MID RIFF
2003	C	19	32.58	89.99	MID RIFF
2003	C	19.5	32.62	89.99	7
2003	C	20	33.71	90.08	MID RIFF
2003	C	21	35.77	90.07	MID RIFF
2003	C	22	37.38	90.08	MID RIFF
2003	C	22.5	38.34	90.10	6
2003	C	23	39.72	90.13	TAIL POOL
2003	C	24	41.60	90.11	MID POOL
2003	C	25	44.37	89.88	MID POOL
2003	C	26	45.09	90.21	HEAD POOL
2003	C	27	47.76	90.62	MID LOGJAM
2003	C	28	50.60	90.81	UPPER LOGJAM
2003	C	29	52.27	90.88	MID RIFF
2003	C	30	54.26	91.03	TAIL POOL
2003	C	31	56.98	90.61	MID RIFF
2003	C	32	58.14	90.93	HEAD POOL
2003	C	33	59.24	91.62	TOP LOG STOP
2004	C	1	8.50	88.97	MID RIFF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2004	C	2	10.72	89.06	MID RIFF
2004	C	3	12.91	89.23	MID RIFF
2004	C	3.5	14.48	89.29	10
2004	C	4	14.93	89.31	MID RIFF
2004	C	5	16.30	89.37	MID RIFF
2004	C	6	18.09	89.40	MID RIFF
2004	C	6.5	19.86	89.44	9
2004	C	7	21.68	89.47	MID RIFF
2004	C	8	23.69	89.30	MID RIFF
2004	C	9	25.30	89.34	MID RIFF
2004	C	9.5	26.26	89.44	8
2004	C	10	27.02	89.51	MID RIFF
2004	C	11	29.17	89.75	MID RIFF
2004	C	12	30.84	89.97	MID RIFF
2004	C	12.5	32.62	89.97	7
2004	C	13	33.56	89.97	MID RIFF
2004	C	14	36.58	90.07	MID RIFF
2004	C	14.5	38.34	90.19	6
2004	C	15	38.60	90.21	MID RIFF
2004	C	16	40.09	90.22	MID RIFF
2004	C	17	42.03	90.12	MID RIFF
2004	C	18	43.26	90.06	BOT STEP
2004	C	19	43.81	90.51	TOP STEP
2004	C	20	45.16	90.76	MID RIFF
2004	C	21	46.34	90.79	MID RIFF
2004	C	22	47.94	90.78	MID RIFF
2004	C	23	49.30	90.90	MID RIFF
2004	C	24	50.61	90.98	MID RIFF
2004	C	25	51.61	91.04	TAIL POOL
2004	C	26	53.23	90.41	MID POOL
2004	C	27	54.04	90.68	HEAD POOL
2004	C	28	54.74	91.63	TOP STEP
2004	C	29	57.26	91.75	MID RIFF
2004	C	30	59.35	91.74	MID RIFF
2004	C	31	61.40	91.80	MID RIFF
2004	C	32	62.80	91.84	BOT GLIDE
2004	C	33	64.59	91.83	MID GLIDE
2004	C	33.5	66.25	91.78	5
2004	C	34	67.62	91.74	TOP GLIDE
2004	C	35	68.84	91.82	MID RIFF
2004	C	36	70.38	91.97	MID RIFF
2004	C	36.5	71.42	91.96	4
2004	C	37	71.87	91.96	MID RIFF
2004	C	38	73.76	92.05	MID RIFF
2004	C	38.5	75.83	92.11	3
2004	C	39	76.12	92.11	MID RIFF
2004	C	40	78.46	92.17	MID RIFF
2004	C	40.5	79.71	92.07	2
2004	C	41	80.74	92.00	MID RIFF
2004	C	42	83.04	91.89	MID RIFF
2004	C	43	84.10	92.01	MID RIFF
2004	C	44	85.82	92.13	MID RIFF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2004	C	44.5	86.06	92.15	1
2004	C	45	87.30	92.24	MID RIFF
2004	C	46	89.51	92.33	MID RIFF
2004	C	47	91.51	92.44	MID RIFF
2004	C	48	93.96	92.48	MID RIFF
2005	C	1	7.09	89.00	MID RIFF
2005	C	2	9.61	88.95	MID RIFF
2005	C	3	10.60	88.91	MID RIFF
2005	C	4	11.26	88.90	MID RIFF
2005	C	5	12.08	89.08	MID RIFF
2005	C	6	12.85	89.18	MID RIFF
2005	C	7	13.91	89.24	MID RIFF
2005	C	7.5	14.48	89.26	10
2005	C	8	15.30	89.29	MID RIFF
2005	C	9	16.19	89.37	MID RIFF
2005	C	10	17.68	89.32	MID RIFF
2005	C	11	19.29	89.40	MID RIFF
2005	C	11.5	19.86	89.41	9
2005	C	12	22.19	89.42	TAIL POOL
2005	C	13	22.92	89.33	MID POOL
2005	C	14	23.77	89.35	HEAD POOL
2005	C	15	25.72	89.45	MID RIFF
2005	C	15.5	26.26	89.48	8
2005	C	16	26.97	89.53	MID RIFF
2005	C	17	27.95	89.72	MID RIFF
2005	C	18	28.52	89.77	MID RIFF
2005	C	19	29.51	89.70	MID RIFF
2005	C	20	30.39	89.93	MID RIFF
2005	C	21	30.76	89.94	MID RIFF
2005	C	22	31.73	89.96	MID RIFF
2005	C	22.5	32.62	89.97	7
2005	C	23	33.27	89.97	MID RIFF
2005	C	24	34.54	90.03	MID RIFF
2005	C	25	35.64	90.08	MID RIFF
2005	C	26	36.91	90.16	MID RIFF
2005	C	27	38.09	90.17	MID RIFF
2005	C	27.5	38.34	90.18	6
2005	C	28	39.58	90.24	MID RIFF
2005	C	29	40.62	90.29	TAIL POOL
2005	C	30	41.47	90.04	MID POOL
2005	C	31	41.99	90.01	HEAD POOL
2005	C	32	43.07	90.22	BOTTOM LOG STEP
2005	C	33	43.57	90.71	TOP LOG STEP
2005	C	34	45.13	90.67	MID RIFF
2005	C	35	45.88	90.57	MID RIFF
2005	C	36	46.88	90.82	MID RIFF
2005	C	37	47.49	90.75	MID RIFF
2005	C	38	48.15	90.83	MID RIFF
2005	C	39	49.31	90.84	MID RIFF
2005	C	40	50.48	90.93	MID RIFF
2005	C	41	52.52	90.99	TAIL POOL
2005	C	42	53.43	90.68	MID POOL

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2005	C	43	54.04	90.57	HEAD POOL
2005	C	44	55.30	90.78	BOTTOM LOG STEP
2005	C	45	55.79	91.62	TOP LOG STEP
2005	C	46	56.81	91.70	MID RIFF
2005	C	47	57.82	91.75	MID RIFF
2005	C	48	59.04	91.75	MID RIFF
2005	C	49	60.80	91.78	MID RIFF
2005	C	50	61.73	91.76	MID RIFF
2005	C	51	62.78	91.81	MID RIFF
2005	C	52	63.22	91.78	MID RIFF
2005	C	53	63.84	91.81	MID RIFF
2005	C	54	64.47	91.75	MID RIFF
2005	C	55	65.60	91.75	MID RIFF
2005	C	55.5	66.25	91.74	5
2005	C	56	67.20	91.72	MID RIFF
2005	C	57	68.96	91.84	MID RIFF
2005	C	57.5	71.42	91.95	4
2005	C	58	71.52	91.95	MID RIFF
2005	C	59	74.05	92.02	MID RIFF
2005	C	59.5	75.83	92.04	3
2005	C	60	76.54	92.04	MID RIFF
2005	C	61	78.42	92.18	MID RIFF
2005	C	61.5	79.71	92.06	2
2005	C	62	80.87	91.96	TAIL POOL
2005	C	63	82.24	91.90	MID POOL
2005	C	64	83.64	91.96	HEAD POOL
2005	C	65	85.00	92.16	MID RIFF
2005	C	65.5	86.06	92.22	1
2005	C	66	92.61	92.23	MID RIFF
2005	C	67	93.99	92.26	MID RIFF
2005	C	68	95.27	92.30	MID RIFF
2005	C	69	97.07	92.40	MID RIFF
2005	C	70	98.42	92.35	MID RIFF
2005	C	71	100.43	92.54	MID RIFF
2006	C	1	14.30	89.12	MID RIF
2006	C	1.5	14.48	89.11	10
2006	C	2	14.80	89.08	MID RIF
2006	C	3	15.41	89.10	MID RIF
2006	C	4	16.10	89.22	MID RIF
2006	C	5	16.38	89.28	MID RIF
2006	C	6	17.89	89.29	MID RIF
2006	C	7	18.84	89.39	MID RIF
2006	C	8	19.85	89.34	MID RIF
2006	C	8.5	19.86	89.34	9
2006	C	9	21.11	89.30	MID RIF
2006	C	10	22.08	89.42	MID RIF
2006	C	11	22.92	89.47	MID RIF
2006	C	12	24.42	89.51	MID RIF
2006	C	13	25.90	89.56	MID RIF
2006	C	13.5	26.26	89.54	8
2006	C	14	27.28	89.50	MID RIF
2006	C	15	28.89	89.74	DOWN WOODY DEBRI

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2006	C	16	29.30	89.72	UP WOODY DEBRIS
2006	C	17	29.71	89.70	MID RIF
2006	C	18	30.86	89.62	MID RIF
2006	C	19	31.63	89.59	MID RIF
2006	C	20	32.22	89.72	MID RIF
2006	C	20.5	32.62	89.75	7
2006	C	21	33.13	89.79	MID RIF
2006	C	22	34.15	89.84	MID RIF
2006	C	23	35.13	89.83	MID RIF
2006	C	24	35.68	89.92	MID RIF
2006	C	25	36.20	89.90	DOWN WOODY DEBRI
2006	C	26	36.74	90.01	UP WOODY DEBRIS
2006	C	27	37.20	90.03	MID RIF
2006	C	28	38.12	90.13	MID RIF
2006	C	28.5	38.34	90.10	6
2006	C	29	38.73	90.05	MID RIF
2006	C	30	39.59	90.13	MID RIF
2006	C	31	40.69	90.07	MID RIF
2006	C	32	40.93	89.98	TAIL POOL
2006	C	33	41.28	89.83	MID POOL
2006	C	34	41.48	89.85	HEAD POOL
2006	C	35	41.79	89.95	BOTTOM ROCK STEP
2006	C	36	41.90	90.26	TOP ROCK STEP
2006	C	37	42.45	90.05	MID RIF
2006	C	38	43.08	89.95	BOTTOM LOG STEP
2006	C	39	43.20	90.65	TOP LOG STEP
2006	C	40	43.53	90.61	MID RIF
2006	C	41	44.76	90.76	MID RIF
2006	C	42	45.31	90.78	MID RIF
2006	C	43	46.86	90.85	MID RIF
2006	C	44	47.26	90.87	MID RIF
2006	C	45	47.95	90.75	MID RIF
2006	C	46	48.71	90.80	MID RIF
2006	C	47	49.01	90.87	MID RIF
2006	C	48	49.91	90.95	MID RIF
2006	C	49	50.33	90.96	MID RIF
2006	C	50	50.99	91.03	MID RIF
2006	C	51	52.18	90.95	TAIL POOL
2006	C	52	53.56	90.61	MID POOL
2006	C	53	54.23	90.67	MID POOL
2006	C	54	54.55	90.65	HEAD POOL
2006	C	55	54.66	91.31	TOP LOG STEP
2006	C	56	55.14	91.22	MID RIF
2006	C	57	55.92	91.37	MID RIF
2006	C	58	56.17	91.38	MID RIF
2006	C	59	57.22	91.39	MID RIF
2006	C	60	58.74	91.42	MID RIF
2006	C	61	59.94	91.43	MID RIF
2006	C	62	60.59	91.46	MID RIF
2006	C	63	61.05	91.54	MID RIF
2006	C	64	61.19	91.55	MID RIF
2006	C	65	62.47	91.54	MID RIF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2006	C	66	62.96	91.57	MID RIF
2006	C	67	64.53	91.61	MID RIF
2006	C	68	65.34	91.62	MID RIF
2006	C	69	66.09	91.64	MID RIF
2006	C	69.5	66.25	91.62	5
2006	C	70	66.85	91.59	MID RIF
2006	C	71	67.39	91.58	TAIL POOL
2006	C	72	68.19	91.47	MID POOL
2006	C	73	68.62	91.51	HEAD POOL
2006	C	74	68.83	91.62	MID RIF
2006	C	75	69.25	91.75	MID RIF
2006	C	76	70.17	91.80	MID RIF
2006	C	77	71.21	91.85	MID RIF
2006	C	77.5	71.42	91.84	4
2006	C	78	72.02	91.82	MID RIF
2006	C	79	72.55	91.80	MID RIF
2006	C	80	73.78	91.88	MID RIF
2006	C	81	74.93	91.87	MID RIF
2006	C	82	75.81	91.93	MID RIF
2006	C	82.5	75.83	91.93	3
2006	C	83	77.24	92.03	MID RIF
2006	C	84	77.93	92.04	MID RIF
2006	C	85	78.64	91.97	MID RIF
2006	C	85.5	79.71	92.04	2
2006	C	86	80.02	92.05	MID RIF
2006	C	87	80.78	91.96	TAIL POOL
2006	C	88	81.66	91.77	MID POOL
2006	C	89	82.56	91.75	HEAD POOL
2006	C	90	83.46	91.79	MID RIF
2006	C	91	84.36	91.96	MID RIF
2006	C	92	85.04	92.11	MID RIF
2006	C	92.5	86.06	92.16	1
2006	C	93	86.35	92.17	MID RIF
2006	C	94	87.41	92.24	MID RIF
2006	C	95	89.37	92.30	MID RIF
2006	C	96	89.85	92.31	MID RIF
2006	C	97	89.98	92.37	MID RIF
2006	C	98	90.41	92.33	MID RIF
2006	C	99	91.17	92.32	MID RIF
2006	C	100	92.39	92.38	MID RIF
2006	C	101	93.45	92.37	MID RIF
2006	C	102	94.79	92.43	MID RIF
2007	C	1	5.77	88.98	TAIL POOL
2007	C	2	7.84	88.99	MID POOL
2007	C	3	9.99	88.83	MID POOL
2007	C	4	10.96	88.95	HEAD POOL
2007	C	5	12.88	89.14	MID RIFF
2007	C	6	13.98	89.16	TAIL POOL
2007	C	6.5	14.48	89.10	10
2007	C	7	14.57	89.09	MID POOL
2007	C	8	15.28	89.09	HEAD POOL
2007	C	9	15.85	89.16	MID RIFF

Continued on Next Page...

Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2007	C	10	16.38	89.24	TAIL POOL
2007	C	11	17.16	89.24	MID POOL
2007	C	12	17.70	89.24	HEAD POOL
2007	C	13	18.44	89.32	MID RIFF
2007	C	14	19.29	89.45	TAIL POOL
2007	C	14.5	19.86	89.39	9
2007	C	15	20.28	89.35	MID POOL
2007	C	16	21.85	89.37	HEAD POOL
2007	C	17	22.71	89.41	MID RIFF
2007	C	18	23.45	89.48	TAIL POOL
2007	C	19	24.84	89.49	MID POOL
2007	C	20	25.79	89.50	HEAD POOL
2007	C	20.5	26.26	89.55	8
2007	C	21	26.62	89.59	MID RIFF
2007	C	22	28.20	89.68	TAIL POOL
2007	C	23	30.10	89.70	MID POOL
2007	C	24	31.87	89.75	HEAD POOL
2007	C	24.5	32.62	89.78	7
2007	C	25	35.17	89.89	MID RIFF
2007	C	26	37.72	90.12	MID RIFF
2007	C	26.5	38.34	90.11	6
2007	C	27	39.12	90.10	MID RIFF
2007	C	28	40.31	90.14	TAIL POOL
2007	C	29	41.62	89.90	MID POOL
2007	C	30	42.80	90.09	BOT STEP
2007	C	31	43.16	90.66	TOP STEP
2007	C	32	45.05	90.80	MID RIFF
2007	C	33	46.08	90.81	MID RIFF
2007	C	34	46.85	90.84	TAIL POOL
2007	C	35	47.75	90.77	MID POOL
2007	C	36	48.40	90.82	HEAD POOL
2007	C	37	50.06	90.97	MID RIFF
2007	C	38	51.01	91.04	TAIL POOL
2007	C	39	52.35	90.97	MID POOL
2007	C	40	53.74	90.61	MID POOL
2007	C	41	54.34	90.72	BOT STEP
2007	C	42	55.22	91.22	TOP STEP
2007	C	43	57.30	91.37	MID RIFF
2007	C	44	59.80	91.42	MID RIFF
2007	C	45	62.14	91.56	MID RIFF
2007	C	46	64.04	91.58	TAIL POOL
2007	C	46.5	66.25	91.59	5
2007	C	47	67.48	91.60	MID POOL
2007	C	48	68.58	91.51	HEAD POOL
2007	C	49	69.63	91.79	MID RIFF
2007	C	50	71.08	91.87	TAIL POOL
2007	C	50.5	71.42	91.86	4
2007	C	51	72.06	91.84	MID POOL
2007	C	52	73.72	91.88	HEAD POOL
2007	C	53	74.59	91.90	MID RIFF
2007	C	54	75.67	91.95	MID RIFF
2007	C	54.5	75.83	91.96	3

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2007	C	55	76.70	92.03	TAIL POOL
2007	C	56	77.49	92.00	MID POOL
2007	C	57	78.76	92.01	HEAD POOL
2007	C	58	79.19	92.03	MID RIFF
2007	C	59	79.40	92.05	TAIL POOL
2007	C	59.5	79.71	92.03	2
2007	C	60	80.77	91.98	MID POOL
2007	C	61	82.08	91.77	MID POOL
2007	C	62	84.30	92.03	HEAD POOL
2007	C	62.5	86.06	92.15	1
2007	C	63	89.65	92.21	MID RIFF
2008	C	1	-3.31	88.59	MID RIFF
2008	C	2	-2.59	88.59	MID RIFF
2008	C	3	-1.24	88.52	MID RIFF
2008	C	4	0.25	88.58	MID RIFF
2008	C	5	2.51	88.70	MID RIFF
2008	C	6	3.96	88.88	MID RIFF
2008	C	7	5.64	88.97	MID RIFF
2008	C	8	6.78	88.99	MID RIFF
2008	C	9	7.80	88.93	MID RIFF
2008	C	10	8.89	88.86	MID RIFF
2008	C	11	10.08	89.01	MID RIFF
2008	C	12	11.33	89.06	MID RIFF
2008	C	13	12.26	89.07	MID RIFF
2008	C	14	13.03	89.10	MID RIFF
2008	C	15	13.78	89.19	MID RIFF
2008	C	15.5	14.48	89.18	10
2008	C	16	14.60	89.18	MID RIFF
2008	C	17	15.76	89.18	MID RIFF
2008	C	18	16.62	89.23	MID RIFF
2008	C	19	17.42	89.13	MID RIFF
2008	C	20	18.68	89.17	MID RIFF
2008	C	21	19.78	89.26	MID RIFF
2008	C	21.5	19.86	89.26	9
2008	C	22	21.48	89.35	MID RIFF
2008	C	23	22.20	89.37	MID RIFF
2008	C	24	23.38	89.35	MID RIFF
2008	C	25	24.22	89.43	TAIL POOL
2008	C	26	24.90	89.32	MID POOL
2008	C	27	25.65	89.46	HEAD POOL
2008	C	27.5	26.26	89.51	8
2008	C	28	27.06	89.57	MID RIFF
2008	C	29	28.51	89.53	MID RIFF
2008	C	30	30.56	89.59	MID RIFF
2008	C	31	32.49	89.61	MID RIFF
2008	C	31.5	32.62	89.62	7
2008	C	32	33.88	89.74	MID RIFF
2008	C	33	35.04	89.83	MID RIFF
2008	C	34	37.13	90.01	MID RIFF
2008	C	35	38.22	90.03	MID RIFF
2008	C	35.5	38.34	90.02	6
2008	C	36	39.12	89.96	MID RIFF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2008	C	37	40.64	90.16	TAIL POOL
2008	C	38	41.45	89.81	MID POOL
2008	C	39	42.44	89.63	MID POOL
2008	C	40	43.12	89.81	HEAD POOL
2008	C	41	43.79	90.53	MID RIFF
2008	C	42	45.35	90.64	MID RIFF
2008	C	43	47.76	90.84	TAIL POOL
2008	C	44	48.52	90.61	MID POOL
2008	C	45	49.39	90.87	HEAD POOL
2008	C	46	50.08	90.94	TAIL POOL
2008	C	47	51.88	90.74	MID POOL
2008	C	48	53.16	90.81	MID POOL
2008	C	49	54.40	91.03	HEAD POOL
2008	C	50	56.13	91.25	MID RIFF
2008	C	51	56.25	91.23	MID RIFF
2008	C	52	58.22	91.38	MID RIFF
2008	C	53	59.37	91.40	MID RIFF
2008	C	54	60.45	91.42	MID RIFF
2008	C	55	61.67	91.47	MID RIFF
2008	C	56	63.39	91.48	MID RIFF
2008	C	57	64.76	91.58	MID RIFF
2008	C	57.5	66.25	91.58	5
2008	C	58	66.30	91.58	MID RIFF
2008	C	59	67.29	91.53	MID RIFF
2008	C	60	68.29	91.45	MID RIFF
2008	C	61	69.13	91.47	MID RIFF
2008	C	62	70.80	91.63	MID RIFF
2008	C	62.5	71.42	91.65	4
2008	C	63	72.62	91.70	MID RIFF
2008	C	64	74.09	91.73	MID RIFF
2008	C	64.5	75.83	91.87	3
2008	C	65	75.91	91.88	MID RIFF
2008	C	66	77.27	91.96	MID RIFF
2008	C	67	79.64	92.00	MID RIFF
2008	C	67.5	79.71	92.00	2
2008	C	68	80.55	91.99	TAIL POOL
2008	C	69	81.48	91.74	MID POOL
2008	C	70	83.17	91.73	MID POOL
2008	C	71	84.57	91.97	HEAD POOL
2008	C	72	85.84	92.11	MID RIFF
2008	C	72.5	86.06	92.12	1
2008	C	73	87.27	92.15	MID RIFF
2008	C	74	88.74	92.23	MID RIFF
2008	C	75	90.14	92.27	MID RIFF
2008	C	76	91.42	92.28	MID RIFF
2002	D	1	0.00	105.15	TAILFLUME
2002	D	2	3.65	105.07	HEADPOOL
2002	D	3	10.22	105.35	TRIFF.57
2002	D	4	12.36	105.44	HRIFF.41
2002	D	5	13.79	105.36	OUT
2002	D	6	15.44	105.52	OUT
2002	D	7	15.48	105.52	STEP.28

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2002	D	8	15.91	105.66	TOPSTEP.44
2002	D	8.5	17.49	105.67	10
2002	D	9	17.87	105.67	HEADRIFF.65
2002	D	10	21.09	105.74	TRIFF.53BOTTRIFF
2002	D	11	22.29	105.88	TRIFF.31HEADRIFF
2002	D	11.5	23.13	105.91	9
2002	D	12	24.46	105.95	HEADRIFF.26
2002	D	13	24.84	106.01	TAILRIFF.28
2002	D	14	26.03	106.05	HEADRIFF.24
2002	D	15	28.66	106.04	TAILRIFF.43
2002	D	15.5	28.67	106.04	8
2002	D	16	31.43	106.10	HEADRIFF.30TAILR
2002	D	17	32.83	106.22	TOPRIFF.37TPOOL
2002	D	17.5	33.21	106.16	7
2002	D	18	33.91	106.04	MIDPOOL.97
2002	D	19	34.62	106.24	HEADPOO.36TRIFF
2002	D	20	35.53	106.40	HEADRIFF.13
2002	D	21	36.69	106.44	.18HEADTAILRIFF
2002	D	21.5	36.88	106.48	6
2002	D	22	37.55	106.61	TAILRIFF.27TPOOL
2002	D	23	38.77	106.52	MIDPOOL.57
2002	D	24	39.64	106.52	TOPPOOL.51TAILPO
2002	D	25	40.65	106.33	MIDPOOL1.12
2002	D	26	41.37	106.61	HEADPOOL.15TAILR
2002	D	27	42.38	106.64	.37BOTSTEP
2002	D	28	42.61	106.75	.28TOPSTEPTAILRI
2002	D	29	46.32	106.85	HEAD.34TAILRIFF
2002	D	30	46.90	106.79	BOTSTEP.58
2002	D	31	47.16	106.87	TOPSTEP.37
2002	D	32	47.98	106.98	BOTSTEP.25
2002	D	33	48.48	107.10	TOPSTEP.29
2002	D	34	49.60	107.07	BEND.45
2002	D	35	50.12	107.06	TAILRIF.33
2002	D	36	50.47	107.12	HEADRIFF.31
2002	D	37	52.34	107.25	TRIFF.34
2002	D	38	52.66	107.28	HRIFF.38
2002	D	39	55.07	107.35	TRIFF.27
2002	D	40	55.58	107.45	TAILPOOL.28
2002	D	41	56.68	107.39	MIDPOOL.52
2002	D	42	58.47	107.08	BEND.96
2002	D	43	60.37	107.33	HEADPOOL.36
2002	D	44	60.83	107.33	BIS.30
2002	D	45	62.02	107.38	BIS.27
2002	D	46	63.49	107.97	TOPBIS.43TRIFF
2002	D	47	64.90	107.91	BEND.65
2002	D	48	69.23	108.41	HEADRIFF.35
2002	D	49	69.41	108.49	TAILRIFF.36
2002	D	50	70.39	108.55	HRIFF.32TRIFF
2002	D	51	71.38	108.58	HRIFF.20TAILRIFF
2002	D	52	73.95	108.60	HRIFF.18TRIFF
2002	D	53	74.21	108.72	BIS.15
2002	D	54	76.36	108.65	TRIFF.33

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2002	D	55	80.25	108.70	HRIFF.36
2002	D	56	82.72	108.88	TRIFF.26
2002	D	57	84.63	109.02	HRIFF.24
2002	D	58	86.68	109.12	TRIFF.38TPOOL
2002	D	58.5	87.13	109.09	5
2002	D	59	87.83	109.04	MIDPOOL.53
2002	D	60	88.96	109.08	HPOOL.37TPOOL
2002	D	61	90.84	108.94	MIDPOOL.83
2002	D	62	91.12	109.05	HPOOL.65
2002	D	63	91.58	109.15	TRIFF.39STEP
2002	D	63.5	92.08	109.18	4
2002	D	64	93.11	109.24	HRIFF.41TRIFF
2002	D	65	95.00	109.37	HRIFF.23
2002	D	66	96.17	109.38	TRIFF.33
2002	D	67	96.35	109.37	TPOOL.31
2002	D	67.5	97.36	109.31	3
2002	D	68	98.37	109.26	MIDPOOL.70
2002	D	69	100.49	109.49	HEADPOOL.24
2002	D	70	101.17	109.68	TRIFF.26STEP
2002	D	70.5	101.37	109.68	2
2002	D	71	103.45	109.66	HRIFF.39
2002	D	72	104.02	109.73	TRIFF.32HRIFF
2002	D	73	105.94	109.64	BIS.31
2002	D	73.5	106.03	109.67	1
2002	D	74	106.70	109.92	HRIFF.22
2002	D	75	110.52	109.92	UNDERCUT.37
2002	D	76	112.21	110.05	UCTRIFF.21
2002	D	77	113.03	110.25	BIS.26
2002	D	78	115.36	110.36	HRIFF.17
2002	D	79	117.40	110.43	TRIFF.32
2002	D	80	118.44	110.51	HRIFF.47
2002	D	81	120.12	110.63	TPOOL.20
2002	D	82	121.39	110.35	MIDPOOL.1.07
2002	D	83	121.96	110.50	HPOOL.41
2002	D	84	124.31	110.78	HRIFF.30
2002	D	85	125.05	110.76	BEND.23
2002	D	86	127.07	110.67	BIS.71
2002	D	87	128.26	111.04	STEP.39
2002	D	88	129.83	111.05	TRIFF.2
2004	D	1	12.98	105.43	MID RIFF
2004	D	2	15.71	105.53	BOT STEP
2004	D	3	15.93	105.77	TOP STEP
2004	D	3.5	17.49	105.77	10
2004	D	4	18.39	105.78	MID RIFF
2004	D	5	21.07	105.78	MID RIFF
2004	D	6	22.11	105.85	MID RIFF
2004	D	6.5	23.13	105.88	9
2004	D	7	24.20	105.90	MID RIFF
2004	D	8	25.31	105.94	MID RIFF
2004	D	9	27.62	106.04	MID RIFF
2004	D	9.5	28.67	106.07	8
2004	D	10	30.04	106.12	MID RIFF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2004	D	11	32.16	106.16	MID RIFF
2004	D	12	32.88	106.17	TAIL GLIDE
2004	D	12.5	33.21	106.16	7
2004	D	13	33.95	106.13	MID GLIDE
2004	D	14	34.34	106.20	TOP GLIDE
2004	D	15	34.88	106.25	MID RIFF
2004	D	16	35.29	106.39	MID RIFF
2004	D	17	36.56	106.44	MID RIFF
2004	D	17.5	36.88	106.49	6
2004	D	18	37.60	106.60	TAIL POOL
2004	D	19	38.64	106.51	MID POOL
2004	D	20	39.59	106.47	HEAD POOL
2004	D	21	40.33	106.33	TAIL GLIDE
2004	D	22	40.92	106.50	HEAD GLIDE
2004	D	23	41.53	106.67	TOP STEP
2004	D	24	43.97	106.80	MID RIFF
2004	D	25	46.68	106.82	MID RIFF
2004	D	26	47.67	106.94	MID RIFF
2004	D	27	48.27	107.10	MID RIFF
2004	D	28	49.44	107.01	MID RIFF
2004	D	29	50.91	107.11	MID RIFF
2004	D	30	51.81	107.13	MID RIFF
2004	D	31	52.48	107.21	MID RIFF
2004	D	32	54.80	107.32	MID RIFF
2004	D	33	54.98	107.40	MID RIFF
2004	D	34	55.99	107.35	TAIL POOL
2004	D	35	56.65	107.28	MID POOL
2004	D	36	57.74	107.33	HEAD POOL
2004	D	37	58.43	107.27	MID GLIDE
2004	D	38	59.12	107.23	TOP GLIDE
2004	D	39	60.87	107.51	MID RIFF
2004	D	40	62.11	107.38	MID GLIDE
2004	D	41	63.37	107.42	TOP GLIDE
2004	D	42	64.72	108.01	TOP ROOT
2004	D	43	66.47	108.05	BOT STEP
2004	D	44	66.63	108.30	TOP STEP
2004	D	45	67.55	108.16	MID RIFF
2004	D	46	68.76	108.32	MID RIFF
2004	D	47	69.51	108.59	MID RIFF
2004	D	48	72.22	108.66	MID RIFF
2004	D	49	73.97	108.75	MID RIFF
2004	D	50	78.40	108.74	MID RIFF
2004	D	51	80.82	108.85	MID RIFF
2004	D	52	84.61	108.99	MID RIFF
2004	D	53	86.39	109.03	MID RIFF
2004	D	54	86.80	109.12	MID RIFF
2004	D	54.5	87.13	109.08	5
2004	D	55	87.23	109.07	BOT GLIDE
2004	D	56	89.35	109.07	MID GLIDE
2004	D	57	90.57	108.91	TOP GLIDE
2004	D	58	91.54	109.02	MID RIFF
2004	D	58.5	92.08	109.09	4

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2004	D	59	92.84	109.19	MID RIFF
2004	D	60	93.31	109.18	MID RIFF
2004	D	61	94.30	109.26	MID RIFF
2004	D	62	95.14	109.34	MID RIFF
2004	D	63	96.24	109.37	TAIL GLIDE
2004	D	63.5	97.36	109.27	3
2004	D	64	97.38	109.27	MID GLIDE
2004	D	65	98.57	109.34	HEAD GLIDE
2004	D	66	101.01	109.48	MID RIFF
2004	D	66.5	101.37	109.50	2
2004	D	67	102.43	109.56	MID RIFF
2004	D	68	104.08	109.73	MID RIFF
2004	D	69	105.82	109.70	MID RIFF
2004	D	69.5	106.03	109.75	1
2004	D	70	106.59	109.88	MID RIFF
2004	D	71	108.37	109.82	MID RIFF
2004	D	72	110.14	109.85	MID RIFF
2004	D	73	110.70	110.07	MID RIFF
2004	D	74	111.23	110.08	MID RIFF
2004	D	75	111.60	110.17	MID RIFF
2004	D	76	112.86	110.30	MID RIFF
2004	D	77	114.26	110.23	MID RIFF
2004	D	78	115.61	110.37	MID RIFF
2004	D	79	117.36	110.51	MID RIFF
2005	D	1	13.84	105.41	MID RIFF
2005	D	2	15.28	105.53	BTM LOG STEP
2005	D	3	15.79	105.71	TOP LOG STEP
2005	D	4	17.02	105.74	MID RIFF
2005	D	4.5	17.49	105.74	10
2005	D	5	19.64	105.76	MID RIFF
2005	D	6	22.09	105.79	MID RIFF
2005	D	6.5	23.13	105.80	9
2005	D	7	24.45	105.80	MID RIFF
2005	D	8	24.94	105.99	MID RIFF
2005	D	9	26.48	106.14	MID RIFF
2005	D	10	27.04	105.99	MID RIFF
2005	D	10.5	28.67	106.07	8
2005	D	11	30.05	106.14	MID RIFF
2005	D	12	31.88	106.12	MID RIFF
2005	D	13	32.83	106.14	TAIL POOL
2005	D	13.5	33.21	106.12	7
2005	D	14	33.62	106.10	MID POOL
2005	D	15	34.63	106.15	HEAD POOL
2005	D	16	36.16	106.42	MID RIF
2005	D	16.5	36.88	106.49	6
2005	D	17	37.80	106.57	TAIL POOL
2005	D	18	39.34	106.53	MID POOL
2005	D	19	40.32	106.30	MID POOL
2005	D	20	41.31	106.62	HEAD POOL
2005	D	21	42.73	106.76	MID RIF
2005	D	22	45.43	106.83	MID RIF
2005	D	23	46.74	106.85	MID RIF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2005	D	24	47.71	106.99	MID RIF
2005	D	25	50.59	107.11	MID RIF
2005	D	26	52.17	107.21	MID RIF
2005	D	27	54.68	107.35	MID RIF
2005	D	28	55.97	107.39	TAIL POOL
2005	D	29	56.97	107.28	MID POOL
2005	D	30	58.01	107.32	HEAD POOL
2005	D	31	60.26	107.52	MID RIFF
2005	D	32	61.54	107.47	TAIL POOL
2005	D	33	62.71	107.34	MID POOL
2005	D	34	63.74	107.47	HEAD POOL
2005	D	35	64.11	107.72	ROCK STEP
2005	D	36	64.84	107.93	ROCK STEP
2005	D	37	65.89	108.05	MID RIFF
2005	D	38	66.86	108.21	MID RIFF
2005	D	39	68.00	108.23	MID RIFF
2005	D	40	68.67	108.45	MID RIFF
2005	D	41	69.40	108.52	MID RIFF
2005	D	42	70.79	108.54	MID RIFF
2005	D	43	72.03	108.62	MID RIFF
2005	D	44	73.24	108.70	MID RIFF
2005	D	45	75.17	108.74	MID RIFF
2005	D	46	76.82	108.79	MID RIFF
2005	D	47	78.21	108.75	MID RIFF
2005	D	48	79.96	108.82	MID RIFF
2005	D	49	81.29	108.86	MID RIFF
2005	D	50	82.87	108.91	MID RIFF
2005	D	51	85.12	108.97	MID RIFF
2005	D	52	86.80	109.03	MID RIFF
2005	D	52.5	87.13	109.06	5
2005	D	53	87.35	109.08	TAIL POOL
2005	D	54	88.77	109.05	MID POOL
2005	D	55	89.64	108.93	MID POOL
2005	D	56	90.54	108.87	MID POOL
2005	D	57	91.88	109.13	HEAD POOL
2005	D	57.5	92.08	109.14	4
2005	D	58	92.67	109.17	MID RIFF
2005	D	59	93.27	109.21	MID RIFF
2005	D	60	94.58	109.30	MID RIFF
2005	D	61	95.85	109.38	MID RIFF
2005	D	62	96.25	109.37	TAIL POOL
2005	D	62.5	97.36	109.28	3
2005	D	63	97.66	109.26	MID POOL
2005	D	64	98.83	109.31	HEAD POOL
2005	D	65	100.39	109.45	MID RIFF
2005	D	65.5	101.37	109.65	2
2005	D	66	101.50	109.68	MID RIFF
2005	D	67	102.33	109.57	MID RIFF
2005	D	68	103.38	109.64	MID RIFF
2005	D	69	104.90	109.70	MID RIFF
2005	D	70	105.88	109.71	MID RIFF
2005	D	70.5	106.03	109.76	1

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2005	D	71	106.50	109.90	MID RIFF
2005	D	72	108.22	109.88	MID RIFF
2005	D	73	109.09	109.74	MID RIFF
2005	D	74	110.92	109.91	MID RIFF
2005	D	75	111.41	110.01	MID RIFF
2005	D	76	111.88	110.16	MID RIFF
2005	D	77	112.49	110.25	MID RIFF
2005	D	78	113.64	110.30	MID RIFF
2005	D	79	116.16	110.39	MID RIFF
2006	D	1	13.20	105.39	MID RIF
2006	D	2	14.54	105.56	MID RIF
2006	D	3	15.55	105.49	BOT LOG STEP
2006	D	4	15.76	105.77	TOP LOG STEP
2006	D	5	16.24	105.65	MID RIFF
2006	D	6	17.38	105.71	MID RIFF
2006	D	6.5	17.49	105.72	10
2006	D	7	18.22	105.80	MID RIFF
2006	D	8	19.18	105.75	TAIL POOL
2006	D	9	20.61	105.57	MID POOL
2006	D	10	21.57	105.78	HEAD POOL
2006	D	11	21.99	105.83	MID RIFF
2006	D	11.5	23.13	105.83	9
2006	D	12	23.34	105.83	MID RIFF
2006	D	13	25.10	105.96	MID RIFF
2006	D	14	26.23	106.00	MID RIFF
2006	D	15	27.05	105.89	MID RIFF
2006	D	16	28.10	105.95	MID RIFF
2006	D	16.5	28.67	106.01	8
2006	D	17	29.51	106.12	MID RIFF
2006	D	18	31.81	106.19	MID RIFF
2006	D	18.5	33.21	106.17	7
2006	D	19	33.45	106.17	MID RIFF
2006	D	20	34.69	106.19	MID RIFF
2006	D	20.5	36.88	106.42	6
2006	D	21	36.89	106.42	MID RIFF
2006	D	22	37.50	106.51	MID RIFF
2006	D	23	37.90	106.57	MID RIFF
2006	D	24	38.55	106.49	MID RIFF
2006	D	25	39.61	106.54	TAIL POOL
2006	D	26	40.58	106.33	MID POOL
2006	D	27	41.29	106.70	HEAD POOL
2006	D	28	42.53	106.76	MID RIFF
2006	D	29	43.50	106.79	MID RIFF
2006	D	30	44.41	106.74	MID RIFF
2006	D	31	45.09	106.81	MID RIFF
2006	D	32	46.01	106.87	MID RIFF
2006	D	33	46.46	106.82	MID RIFF
2006	D	34	46.75	106.80	MID RIFF
2006	D	35	47.40	106.90	MID RIFF
2006	D	36	48.29	107.07	MID RIFF
2006	D	37	49.36	106.97	MID RIFF
2006	D	38	50.32	107.10	MID RIFF

Continued on Next Page...

Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2006	D	39	51.05	107.11	MID RIFF
2006	D	40	52.21	107.16	MID RIFF
2006	D	41	52.95	107.19	MID RIFF
2006	D	42	53.91	107.21	MID RIFF
2006	D	43	55.47	107.20	MID RIFF
2006	D	44	57.38	107.22	MID RIFF
2006	D	45	59.04	107.25	MID RIFF
2006	D	46	60.84	107.52	MID RIFF
2006	D	47	61.89	107.38	MID RIFF
2006	D	48	63.25	107.41	MID RIFF
2006	D	49	65.09	108.06	MID RIFF
2006	D	50	66.35	108.08	MID RIFF
2006	D	51	66.82	108.17	MID RIFF
2006	D	52	67.34	108.14	MID RIFF
2006	D	53	68.07	108.13	MID RIFF
2006	D	54	69.37	108.50	MID RIFF
2006	D	55	70.51	108.59	MID RIFF
2006	D	56	71.42	108.51	MID RIFF
2006	D	57	71.98	108.49	MID RIFF
2006	D	58	73.14	108.66	MID RIFF
2006	D	59	74.52	108.72	MID RIFF
2006	D	60	75.42	108.70	MID RIFF
2006	D	61	79.06	108.82	MID RIFF
2006	D	62	80.59	108.83	MID RIFF
2006	D	63	81.97	108.83	MID RIFF
2006	D	64	83.37	108.92	MID RIFF
2006	D	65	84.06	108.92	MID RIFF
2006	D	66	85.09	108.92	MID RIFF
2006	D	67	86.43	108.98	MID RIFF
2006	D	67.5	87.13	109.03	5
2006	D	68	87.65	109.06	TAIL POOL
2006	D	69	89.20	109.02	MID POOL
2006	D	70	90.60	108.93	MID POOL
2006	D	71	91.71	109.06	HEAD POOL
2006	D	71.5	92.08	109.09	4
2006	D	72	92.41	109.13	MID RIFF
2006	D	73	93.28	109.23	MID RIFF
2006	D	74	94.52	109.27	MID RIFF
2006	D	75	96.05	109.35	MID RIFF
2006	D	76	96.90	109.27	MID RIFF
2006	D	76.5	97.36	109.26	3
2006	D	77	98.33	109.23	MID RIFF
2006	D	78	100.38	109.44	MID RIFF
2006	D	79	101.21	109.57	MID RIFF
2006	D	79.5	101.37	109.56	2
2006	D	80	102.35	109.50	MID RIFF
2006	D	81	103.30	109.62	MID RIFF
2006	D	82	104.16	109.74	MID RIFF
2006	D	83	104.63	109.69	MID RIFF
2006	D	84	105.70	109.68	MID RIFF
2006	D	84.5	106.03	109.74	1
2006	D	85	106.76	109.88	MID RIFF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2006	D	86	107.53	109.88	MID RIFF
2006	D	87	108.50	109.80	TAIL POOL
2006	D	88	109.50	109.66	MID POOL
2006	D	89	110.45	109.90	HEAD POOL
2006	D	90	111.02	109.98	MID RIFF
2006	D	91	112.04	110.04	BOT LOG STEP
2006	D	92	113.02	110.62	TOP LOG STEP
2006	D	93	115.22	110.60	MID RIFF
2006	D	94	116.78	110.53	MID RIFF
2007	D	1	10.12	105.41	MID RIFF
2007	D	2	11.65	105.45	TAIL POOL
2007	D	3	12.48	105.31	MID POOL
2007	D	4	13.55	105.46	HEAD POOL
2007	D	5	14.46	105.52	MID RIFF
2007	D	6	15.32	105.56	BOT STEP
2007	D	7	15.48	105.74	TOP STEP
2007	D	8	16.61	105.75	MID RIFF
2007	D	8.5	17.49	105.77	10
2007	D	9	18.25	105.78	MID RIFF
2007	D	10	19.11	105.79	TAIL POOL
2007	D	11	20.61	105.58	MID POOL
2007	D	12	21.48	105.92	HEAD POOL
2007	D	13	22.98	105.87	MID RIFF
2007	D	13.5	23.13	105.88	9
2007	D	14	24.41	105.94	MID RIFF
2007	D	15	25.72	106.01	TAIL POOL
2007	D	16	26.65	105.84	MID POOL
2007	D	17	27.80	106.07	HEAD POOL
2007	D	18	28.57	106.07	MID RIFF
2007	D	18.5	28.67	106.08	8
2007	D	19	29.33	106.14	MID RIFF
2007	D	20	30.62	106.27	MID RIFF
2007	D	21	32.58	106.20	TAIL POOL
2007	D	21.5	33.21	106.15	7
2007	D	22	34.08	106.08	MID POOL
2007	D	23	34.82	106.32	HEAD POOL
2007	D	24	36.31	106.45	MID RIFF
2007	D	24.5	36.88	106.50	6
2007	D	25	37.82	106.59	TAIL POOL
2007	D	26	38.88	106.52	MID POOL
2007	D	27	40.38	106.33	MID POOL
2007	D	28	41.19	106.60	HEAD POOL
2007	D	29	42.89	106.78	HEAD POOL
2007	D	30	45.29	106.83	MID RIFF
2007	D	31	47.11	106.98	MID RIFF
2007	D	32	47.96	107.08	MID RIFF
2007	D	33	49.83	107.10	MID RIFF
2007	D	34	52.11	107.21	MID RIFF
2007	D	35	54.99	107.41	TAIL POOL
2007	D	36	56.59	107.28	MID POOL
2007	D	37	57.62	107.23	MID POOL
2007	D	38	59.12	107.46	HEAD POOL

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2007	D	39	60.15	107.56	TAIL POOL
2007	D	40	61.86	107.29	MID POOL
2007	D	41	64.37	108.09	MID RIFF
2007	D	42	66.20	108.20	MID RIFF
2007	D	43	68.03	108.25	MID RIFF
2007	D	44	68.99	108.50	MID RIFF
2007	D	45	71.40	108.60	MID RIFF
2007	D	46	72.71	108.66	MID RIFF
2007	D	47	76.75	108.79	MID RIFF
2007	D	48	78.94	108.81	MID RIFF
2007	D	49	81.93	108.88	MID RIFF
2007	D	50	83.17	108.95	MID RIFF
2007	D	51	84.54	108.95	MID RIFF
2007	D	51.5	87.13	109.06	5
2007	D	52	87.26	109.06	TAIL POOL
2007	D	53	89.12	109.00	MID POOL
2007	D	54	90.70	108.92	MID POOL
2007	D	55	91.72	109.08	HEAD POOL
2007	D	55.5	92.08	109.12	4
2007	D	56	93.10	109.23	MID RIFF
2007	D	57	94.45	109.27	MID RIFF
2007	D	58	95.95	109.37	TAIL POOL
2007	D	58.5	97.36	109.25	3
2007	D	59	97.59	109.23	MID POOL
2007	D	60	100.00	109.43	HEAD POOL
2007	D	61	100.91	109.60	MID RIFF
2007	D	61.5	101.37	109.61	2
2007	D	62	103.01	109.66	MID RIFF
2007	D	63	104.17	109.76	TAIL POOL
2007	D	64	105.49	109.68	MID POOL
2007	D	65	105.95	109.76	HEAD POOL
2007	D	65.5	106.03	109.78	1
2007	D	66	106.56	109.90	MID RIFF
2007	D	67	108.18	109.93	TAIL POOL
2008	D	1	11.85	105.38	MID RIFF
2008	D	2	12.48	105.39	TAIL POOL
2008	D	3	13.50	105.26	MID POOL
2008	D	4	13.96	105.36	HEAD POOL
2008	D	5	14.42	105.53	MID RIFF
2008	D	6	15.07	105.55	MID RIFF
2008	D	7	15.43	105.67	MID RIFF
2008	D	8	16.00	105.58	MID RIFF
2008	D	9	16.96	105.69	MID RIFF
2008	D	9.5	17.49	105.66	10
2008	D	10	17.76	105.65	MID RIFF
2008	D	11	19.11	105.73	TAIL POOL
2008	D	12	19.80	105.71	MID POOL
2008	D	13	21.35	105.73	HEAD POOL
2008	D	14	22.28	105.83	MID RIFF
2008	D	14.5	23.13	105.86	9
2008	D	15	23.46	105.87	MID RIFF
2008	D	16	24.66	105.86	MID RIFF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2008	D	17	25.49	105.95	MID RIFF
2008	D	18	27.32	105.91	MID RIFF
2008	D	19	28.11	105.99	MID RIFF
2008	D	19.5	28.67	106.06	8
2008	D	20	28.99	106.11	MID RIFF
2008	D	21	29.84	106.14	MID RIFF
2008	D	22	31.11	106.22	MID RIFF
2008	D	23	32.02	106.23	MID RIFF
2008	D	24	33.08	106.19	MID RIFF
2008	D	24.5	33.21	106.19	7
2008	D	25	34.76	106.25	MID RIFF
2008	D	26	35.97	106.46	MID RIFF
2008	D	26.5	36.88	106.44	6
2008	D	27	36.96	106.43	MID RIFF
2008	D	28	37.94	106.52	MID RIFF
2008	D	29	38.40	106.49	TAIL POOL
2008	D	30	39.11	106.48	MID POOL
2008	D	31	40.36	106.33	MID POOL
2008	D	32	40.88	106.46	HEAD POOL
2008	D	33	41.79	106.62	MID RIFF
2008	D	34	42.71	106.76	MID RIFF
2008	D	35	44.41	106.75	MID RIFF
2008	D	36	45.68	106.84	MID RIFF
2008	D	37	46.49	106.81	MID RIFF
2008	D	38	47.39	106.90	MID RIFF
2008	D	39	48.31	106.97	MID RIFF
2008	D	40	49.49	107.03	MID RIFF
2008	D	41	50.37	107.07	MID RIFF
2008	D	42	51.27	107.10	MID RIFF
2008	D	43	52.19	107.19	MID RIFF
2008	D	44	53.17	107.24	MID RIFF
2008	D	45	54.13	107.15	MID RIFF
2008	D	46	54.93	107.38	MID RIFF
2008	D	47	55.51	107.35	TAIL POOL
2008	D	48	56.23	107.23	MID POOL
2008	D	49	56.72	107.01	MID POOL
2008	D	50	57.54	107.10	HEAD POOL
2008	D	51	58.04	107.35	MID RIFF
2008	D	52	59.29	107.55	MID RIFF
2008	D	53	59.96	107.50	TAIL POOL
2008	D	54	60.49	107.41	MID POOL
2008	D	55	61.02	107.41	HEAD POOL
2008	D	56	62.46	107.57	MID RIFF
2008	D	57	63.99	107.32	MID RIFF
2008	D	58	65.51	107.95	MID RIFF
2008	D	59	66.43	108.21	TAIL POOL
2008	D	60	68.06	108.05	MID POOL
2008	D	61	69.58	108.30	HEAD POOL
2008	D	62	70.25	108.52	MID RIFF
2008	D	63	72.03	108.50	MID RIFF
2008	D	64	73.37	108.60	MID RIFF
2008	D	65	74.82	108.72	MID RIFF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2008	D	66	76.29	108.70	MID RIFF
2008	D	67	77.93	108.77	MID RIFF
2008	D	68	80.01	108.83	MID RIFF
2008	D	69	81.56	108.81	MID RIFF
2008	D	70	83.29	108.92	MID RIFF
2008	D	71	84.41	108.87	MID RIFF
2008	D	72	85.54	108.89	MID RIFF
2008	D	73	87.04	109.05	TAIL POOL
2008	D	73.5	87.13	109.04	5
2008	D	74	88.85	108.97	MID POOL
2008	D	75	90.51	108.84	MID POOL
2008	D	75.5	92.08	109.12	4
2008	D	76	92.19	109.14	HEAD POOL
2008	D	77	93.53	109.22	MID RIFF
2008	D	78	94.43	109.26	MID RIFF
2008	D	79	95.75	109.31	MID RIFF
2008	D	80	96.29	109.35	TAIL POOL
2008	D	81	97.36	109.24	MID POOL
2008	D	81.5	97.36	109.24	3
2008	D	82	98.50	109.22	MID POOL
2008	D	83	99.52	109.43	HEAD POOL
2008	D	84	101.29	109.62	MID RIFF
2008	D	84.5	101.37	109.62	2
2008	D	85	102.66	109.56	MID RIFF
2008	D	86	104.44	109.65	MID RIFF
2008	D	87	105.68	109.65	MID RIFF
2008	D	87.5	106.03	109.71	1
2008	D	88	107.09	109.90	TAIL POOL
2008	D	89	107.72	109.85	MID POOL
2008	D	90	109.48	109.71	MID POOL
2008	D	91	110.57	110.06	HEAD POOL
2008	D	92	112.15	110.06	MID RIFF
2008	D	93	113.57	110.29	MID RIFF
2008	D	94	114.60	110.36	MID RIFF
2008	D	95	116.40	110.44	MID RIFF
2008	D	96	117.39	110.48	TAIL POOL
2008	D	97	118.58	110.47	MID POOL
2008	D	98	120.05	110.30	MID POOL
2008	D	99	120.65	110.71	HEAD POOL
2008	D	100	121.86	110.69	MID RIFF
2008	D	101	123.32	110.71	MID RIFF
2008	D	102	124.83	110.67	MID RIFF
2008	D	103	126.02	110.88	MID RIFF
2008	D	104	127.26	110.97	MID RIFF
2008	D	105	128.96	111.11	MID RIFF
2008	D	106	133.01	110.66	MID RIFF
2008	D	107	133.66	110.84	MID RIFF
2008	D	108	134.61	110.86	MID RIFF
2008	D	109	135.66	110.98	MID RIFF
2008	D	110	136.81	111.14	MID RIFF
2008	D	111	137.63	111.10	MID RIFF
2008	D	112	138.56	111.15	MID RIFF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2008	D	113	140.13	111.09	MID RIFF
2002	E	1	7.62	189.17	BOTTRIFF.30
2002	E	2	8.98	189.29	TOPRIFF.58
2002	E	3	11.41	189.31	BOTTRIFF.47
2002	E	4	13.97	188.58	TOPRIFF.17
2002	E	5	16.11	188.55	STEP.48
2002	E	6	16.29	189.10	TAILPOOL.59
2002	E	7	17.41	189.01	MIDPOOL.98
2002	E	8	18.61	189.22	HEADPOOL.25
2002	E	9	20.49	189.27	BOTTRIFF.49
2002	E	10	22.19	189.33	BEND.50
2002	E	11	23.02	189.43	STEP.495
2002	E	12	24.36	189.48	TAILPOOL.15
2002	E	13	25.46	189.15	MIDPOOL1.67
2002	E	14	26.16	189.47	BOTTSTEP1.5
2002	E	15	26.21	189.65	STEP.52
2002	E	15.5	26.77	189.66	10.0
2002	E	16	28.82	189.68	TAILRIFF.50
2002	E	17	30.98	189.92	TAILPOOL.26
2002	E	17.5	31.46	189.88	9.0
2002	E	18	32.59	189.78	MIDPOOL.60
2002	E	19	33.02	189.90	HEADPOOL.48
2002	E	20	34.68	189.85	MIDRIFF.51
2002	E	20.5	35.84	189.89	8
2002	E	21	40.44	190.06	BEND.47
2002	E	21.5	40.46	190.06	7.0
2002	E	22	41.41	190.06	STEP.71
2002	E	23	41.90	190.28	TAILPOOL.21
2002	E	24	43.09	190.21	MIDPOOL.68
2002	E	24.5	45.21	190.23	6.0
2002	E	25	45.55	190.23	BRIFFTOPPO.6
2002	E	26	48.73	190.48	TOPRIFF.44
2002	E	26.5	50.32	190.56	5
2002	E	27	50.67	190.58	MIDRIFF.47
2002	E	28	52.47	190.79	BEND.465
2002	E	29	54.86	191.02	BEND.25
2002	E	30	55.77	191.14	TOPRIFF.28
2002	E	30.5	56.44	191.15	4.0
2002	E	31	57.81	191.17	TAILPOOL.25
2002	E	32	59.23	190.91	MIDPOOL1.18
2002	E	33	60.96	191.12	HEADPOOL.59
2002	E	33.5	61.48	191.18	3
2002	E	34	62.55	191.32	MIDRIFF.47
2002	E	34.5	66.03	191.46	2.0
2002	E	35	67.16	191.51	BEND.58
2002	E	36	68.52	191.61	BEND.49
2002	E	37	70.83	191.61	TAILRIFF.61
2002	E	37.5	71.17	191.64	1.0
2002	E	38	75.17	192.03	TOPRIFF.36
2002	E	39	77.67	192.15	BEND.5
2002	E	40	79.20	192.21	BEND.25
2002	E	41	80.66	192.20	BEND.5

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2002	E	42	87.22	193.01	TOPRIFF.20
2004	E	1	20.96	189.26	MID RIF
2004	E	2	22.52	189.27	MID RIF
2004	E	3	23.94	189.40	TAIL POOL
2004	E	4	25.10	189.05	MID POOL
2004	E	5	25.87	189.31	HEAD POOL
2004	E	6	26.37	189.62	TOP STEP
2004	E	6.5	26.77	189.63	10.0
2004	E	7	27.98	189.67	MID RIFF
2004	E	8	28.61	189.68	MID RIFF
2004	E	9	29.26	189.70	MID RIFF
2004	E	10	30.17	189.71	MID RIFF
2004	E	11	30.46	189.86	MID RIFF
2004	E	11.5	31.46	189.84	9.0
2004	E	12	32.71	189.81	MID RIFF
2004	E	13	34.86	189.93	MID RIFF
2004	E	13.5	35.84	189.95	8.0
2004	E	14	37.22	189.99	MID RIFF
2004	E	15	39.75	190.08	MID RIFF
2004	E	15.5	40.46	190.11	7
2004	E	16	41.17	190.13	MID RIFF
2004	E	17	43.53	190.24	MID RIFF
2004	E	17.5	45.21	190.30	6
2004	E	18	45.94	190.32	MID RIFF
2004	E	19	47.47	190.33	MID RIFF
2004	E	20	49.01	190.49	MID RIFF
2004	E	20.5	50.32	190.58	5.0
2004	E	21	50.63	190.60	MID RIFF
2004	E	22	53.60	190.76	MID RIFF
2004	E	23	55.18	190.98	MID RIFF
2004	E	24	55.91	191.13	MID RIFF
2004	E	24.5	56.44	191.14	4
2004	E	25	56.78	191.14	MID RIFF
2004	E	26	58.34	190.90	POOL
2004	E	27	59.21	191.06	TAIL POOL
2004	E	28	60.40	191.00	HEAD POOL
2004	E	28.5	61.48	191.16	3
2004	E	29	61.73	191.19	MID RIFF
2004	E	30	62.92	191.33	MID RIFF
2004	E	31	64.84	191.50	MID RIFF
2004	E	31.5	66.03	191.49	2.0
2004	E	32	67.02	191.49	MID RIFF
2004	E	33	67.77	191.52	MID RIFF
2004	E	34	68.99	191.60	MID RIFF
2004	E	35	70.40	191.55	MID RIFF
2004	E	35.5	71.17	191.63	1.0
2004	E	36	71.47	191.67	MID RIFF
2004	E	37	72.27	191.74	MID RIFF
2004	E	38	73.19	191.68	BOT STEP
2004	E	39	73.46	191.90	TOP STEP
2005	E	1	20.07	189.25	MID RIFF
2005	E	2	21.29	189.25	MID RIFF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2005	E	3	22.08	189.30	MID RIFF
2005	E	4	23.32	189.46	MID RIFF
2005	E	5	24.17	189.45	MID RIFF
2005	E	6	24.56	189.41	TAIL POOL
2005	E	7	24.92	189.10	MID POOL
2005	E	8	25.47	189.13	HEAD POOL
2005	E	9	25.89	189.41	BOTTOM ROCK STEP
2005	E	10	26.34	189.65	TOP ROCK STEP
2005	E	10.5	26.77	189.66	10.0
2005	E	11	27.98	189.70	MID RIFF
2005	E	12	28.72	189.75	MID RIFF
2005	E	13	29.21	189.69	BOTTOM ROCK STEP
2005	E	14	29.59	189.74	TOP ROCK STEP
2005	E	15	30.04	189.72	MID RIFF
2005	E	16	30.23	189.74	BOTTOM ROCK STEP
2005	E	17	30.45	189.84	TOP ROCK STEP
2005	E	17.5	31.46	189.87	9
2005	E	18	31.73	189.87	MID RIFF
2005	E	19	32.86	189.86	MID RIFF
2005	E	20	34.50	189.92	MID RIFF
2005	E	21	35.73	189.98	MID RIFF
2005	E	21.5	35.84	189.99	8.0
2005	E	22	36.61	190.04	MID RIFF
2005	E	23	38.03	190.06	MID RIFF
2005	E	24	38.85	190.06	MID RIFF
2005	E	25	39.70	190.08	MID RIFF
2005	E	25.5	40.46	190.09	7.0
2005	E	26	41.09	190.11	MID RIFF
2005	E	27	41.74	190.20	MID RIFF
2005	E	28	43.09	190.19	MID RIFF
2005	E	29	44.09	190.21	MID RIFF
2005	E	30	44.85	190.19	MID RIFF
2005	E	30.5	45.21	190.22	6.0
2005	E	31	45.49	190.25	MID RIFF
2005	E	32	46.12	190.34	MID RIFF
2005	E	33	47.15	190.33	MID RIFF
2005	E	34	48.19	190.40	MID RIFF
2005	E	35	48.87	190.49	MID RIFF
2005	E	36	50.20	190.60	MID RIFF
2005	E	36.5	50.32	190.60	5
2005	E	37	51.67	190.61	MID RIFF
2005	E	38	52.39	190.79	MID RIFF
2005	E	39	53.22	190.78	MID RIFF
2005	E	40	54.08	190.89	MID RIFF
2005	E	41	54.98	190.97	MID RIFF
2005	E	42	55.64	191.08	MID RIFF
2005	E	42.5	56.44	191.14	4
2005	E	43	57.33	191.20	MID RIFF
2005	E	44	57.96	191.11	TAIL POOL
2005	E	45	58.74	190.99	MID POOL
2005	E	46	59.58	191.03	HEAD POOL
2005	E	47	60.86	191.13	MID RIFF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2005	E	47.5	61.48	191.21	3
2005	E	48	62.15	191.31	MID RIFF
2005	E	49	62.94	191.38	MID RIFF
2005	E	50	63.67	191.38	MID RIFF
2005	E	51	64.33	191.42	MID RIFF
2005	E	52	65.13	191.43	MID RIFF
2005	E	52.5	66.03	191.51	2.0
2005	E	53	66.18	191.52	MID RIFF
2005	E	54	66.60	191.48	MID RIFF
2005	E	55	67.96	191.56	MID RIFF
2005	E	56	69.52	191.57	MID RIFF
2005	E	57	71.04	191.62	MID RIFF
2005	E	57.5	71.17	191.63	1.0
2005	E	58	72.11	191.70	MID RIFF
2005	E	59	73.04	191.83	MID RIFF
2005	E	60	74.12	191.84	MID RIFF
2005	E	61	75.00	192.02	MID RIFF
2005	E	62	76.06	192.07	MID RIFF
2005	E	63	77.26	191.95	MID RIFF
2005	E	64	77.86	192.02	MID RIFF
2005	E	65	78.79	192.13	MID RIFF
2006	E	1	19.67	189.17	MID POOL
2006	E	2	20.16	189.28	HEAD POOL
2006	E	3	20.85	189.29	MID RIFF
2006	E	4	21.38	189.30	TAIL POOL
2006	E	5	21.95	189.19	MID POOL
2006	E	6	22.78	189.32	HEAD POOL
2006	E	7	23.41	189.39	MID RIFF
2006	E	8	24.02	189.34	TAIL POOL
2006	E	9	24.92	189.19	MID POOL
2006	E	10	25.49	189.15	MID POOL
2006	E	11	26.21	189.48	HEAD POOL
2006	E	11.5	26.77	189.56	10.0
2006	E	12	27.36	189.65	MID RIFF
2006	E	13	28.87	189.71	MID RIFF
2006	E	14	30.06	189.74	MID RIFF
2006	E	15	30.94	189.89	MID RIFF
2006	E	15.5	31.46	189.85	9.0
2006	E	16	32.07	189.81	MID RIFF
2006	E	17	33.21	189.84	MID RIFF
2006	E	18	34.38	189.93	MID RIFF
2006	E	18.5	35.84	189.96	8.0
2006	E	19	36.05	189.96	MID RIFF
2006	E	20	37.55	190.04	MID RIFF
2006	E	21	38.61	190.04	MID RIFF
2006	E	22	39.27	190.10	TAIL POOL
2006	E	23	40.01	190.02	MID POOL
2006	E	23.5	40.46	190.02	7
2006	E	24	40.53	190.02	MID POOL
2006	E	25	40.98	190.18	HEAD POOL
2006	E	26	42.04	190.18	MID RIFF
2006	E	27	43.35	190.20	MID RIFF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2006	E	28	44.43	190.20	MID RIFF
2006	E	28.5	45.21	190.24	6.0
2006	E	29	45.39	190.25	MID RIFF
2006	E	30	46.39	190.34	MID RIFF
2006	E	31	48.82	190.51	MID RIFF
2006	E	32	49.65	190.41	MID RIFF
2006	E	33	49.97	190.53	MID RIFF
2006	E	33.5	50.32	190.55	5
2006	E	34	51.57	190.65	MID RIFF
2006	E	35	52.46	190.80	MID RIFF
2006	E	36	53.39	190.79	MID RIFF
2006	E	37	54.82	190.98	MID RIFF
2006	E	38	55.83	191.09	MID RIFF
2006	E	38.5	56.44	191.08	4.0
2006	E	39	56.66	191.08	MID RIFF
2006	E	40	57.88	191.14	TAIL POOL
2006	E	41	58.74	191.01	MID POOL
2006	E	42	59.67	190.97	MID POOL
2006	E	43	61.01	191.14	HEAD POOL
2006	E	43.5	61.48	191.20	3.0
2006	E	44	61.95	191.26	MID RIFF
2006	E	45	62.95	191.34	MID RIFF
2006	E	46	63.45	191.41	MID RIFF
2006	E	47	64.16	191.39	MID RIFF
2006	E	48	64.83	191.48	MID RIFF
2006	E	49	65.62	191.50	MID RIFF
2006	E	49.5	66.03	191.48	2
2006	E	50	66.55	191.45	MID RIFF
2006	E	51	67.39	191.54	MID RIFF
2006	E	52	67.95	191.54	MID RIFF
2006	E	53	69.12	191.60	MID RIFF
2006	E	53.5	71.17	191.69	1.0
2006	E	54	71.71	191.72	MID RIFF
2006	E	55	72.34	191.72	TAIL POOL
2006	E	56	73.26	191.70	MID POOL
2006	E	57	73.65	191.88	HEAD POOL
2006	E	58	74.35	191.82	MID RIFF
2006	E	59	74.99	192.00	MID RIFF
2006	E	60	76.78	192.10	MID RIFF
2006	E	61	78.20	192.12	MID RIFF
2006	E	62	79.45	192.18	MID RIFF
2007	E	1	23.48	189.40	TAIL POOL
2007	E	2	25.10	189.08	MID POOL
2007	E	3	25.87	189.25	BOT STEP
2007	E	4	26.30	189.68	TOP STEP
2007	E	4.5	26.77	189.69	10.0
2007	E	5	28.63	189.73	MID RIFF
2007	E	6	30.88	189.90	MID RIFF
2007	E	6.5	31.46	189.90	9
2007	E	7	34.59	189.87	MID RIFF
2007	E	7.5	35.84	189.94	8.0
2007	E	8	37.75	190.06	MID RIFF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2007	E	8.5	40.46	190.09	7.0
2007	E	9	41.15	190.10	MID RIFF
2007	E	10	44.45	190.18	MID RIFF
2007	E	10.5	45.21	190.24	6
2007	E	11	46.46	190.34	MID RIFF
2007	E	12	48.19	190.35	MID RIFF
2007	E	12.5	50.32	190.56	5
2007	E	13	50.77	190.61	MID RIFF
2007	E	14	53.00	190.72	MID RIFF
2007	E	15	55.22	190.97	MID RIFF
2007	E	16	56.29	191.12	MID RIFF
2007	E	16.5	56.44	191.12	4
2007	E	17	57.88	191.15	TAIL POOL
2007	E	18	59.40	190.98	MID POOL
2007	E	19	60.69	191.09	HEAD POOL
2007	E	19.5	61.48	191.17	3.0
2007	E	20	62.88	191.31	MID RIFF
2007	E	20.5	66.03	191.45	2
2007	E	21	66.56	191.48	MID RIFF
2007	E	22	69.58	191.52	MID RIFF
2007	E	22.5	71.17	191.61	1
2007	E	23	72.98	191.71	MID RIFF
2007	E	24	76.49	192.09	MID RIFF
2008	E	1	21.02	189.29	MID RIFF
2008	E	2	22.06	189.19	MID RIFF
2008	E	3	23.18	189.40	MID RIFF
2008	E	4	24.14	189.30	TAIL POOL
2008	E	5	25.18	189.04	MID POOL
2008	E	6	25.88	189.26	HEAD POOL
2008	E	7	26.51	189.62	MID RIFF
2008	E	7.5	26.77	189.61	10
2008	E	8	28.08	189.59	MID RIFF
2008	E	9	29.24	189.71	MID RIFF
2008	E	10	31.14	189.86	MID RIFF
2008	E	10.5	31.46	189.85	9
2008	E	11	32.71	189.81	MID RIFF
2008	E	12	34.65	189.91	MID RIFF
2008	E	12.5	35.84	189.91	8
2008	E	13	36.28	189.92	MID RIFF
2008	E	14	37.94	190.01	MID RIFF
2008	E	15	39.79	189.97	MID RIFF
2008	E	15.5	40.46	190.04	7
2008	E	16	40.93	190.08	MID RIFF
2008	E	17	41.82	190.20	MID RIFF
2008	E	18	43.79	190.19	MID RIFF
2008	E	19	44.92	190.20	MID RIFF
2008	E	19.5	45.21	190.23	6
2008	E	20	46.19	190.35	MID RIFF
2008	E	21	47.59	190.35	MID RIFF
2008	E	22	48.65	190.46	MID RIFF
2008	E	23	49.63	190.39	MID RIFF
2008	E	23.5	50.32	190.57	5

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2008	E	24	50.47	190.61	MID RIFF
2008	E	25	51.27	190.69	MID RIFF
2008	E	26	52.59	190.69	MID RIFF
2008	E	27	53.02	190.69	MID RIFF
2008	E	28	53.95	190.80	MID RIFF
2008	E	29	55.71	190.95	MID RIFF
2008	E	29.5	56.44	191.10	4
2008	E	30	56.72	191.17	MID RIFF
2008	E	31	57.99	191.18	TAIL POOL
2008	E	32	59.45	190.99	MID POOL
2008	E	33	60.62	191.06	MID POOL
2008	E	33.5	61.48	191.16	3
2008	E	34	61.53	191.17	HEAD POOL
2008	E	35	62.98	191.30	MID RIFF
2008	E	36	64.13	191.40	MID RIFF
2008	E	37	65.08	191.41	MID RIFF
2008	E	37.5	66.03	191.46	2
2008	E	38	66.58	191.49	MID RIFF
2008	E	39	68.09	191.54	MID RIFF
2008	E	40	70.10	191.60	MID RIFF
2008	E	40.5	71.17	191.65	1
2008	E	41	71.98	191.70	MID RIFF
2008	E	42	73.58	191.71	MID RIFF
2008	E	43	75.56	192.04	MID RIFF
2008	E	44	77.08	191.94	MID RIFF
2008	E	45	78.20	192.04	MID RIFF
2008	E	46	79.64	192.18	MID RIFF
2008	E	47	80.94	192.17	MID RIFF
2008	E	48	82.86	192.43	TAIL POOL
2008	E	49	84.20	192.33	MID POOL
2008	E	50	85.17	192.39	HEAD POOL
2002	F	1	0.00	104.93	TAILPOOL.30
2002	F	2	1.79	104.56	MIDPOOL1.52
2002	F	3	2.82	104.83	HEADPOOL.57
2002	F	4	3.38	105.40	TOPSTEP.08TRIFF
2002	F	5	8.02	105.63	HEADRIFF.20TPOOL
2002	F	6	9.93	105.46	MIDPOOL.77
2002	F	7	12.20	105.64	HEADPOOL.18TRIFF
2002	F	8	13.72	105.57	BEND.54
2002	F	9	16.02	105.76	HEADRIFF.33
2002	F	10	17.20	105.70	MIDPOOL.50
2002	F	11	17.55	105.76	HEADPOOL.27TRIFF
2002	F	12	20.62	106.06	HEADRIFF.21TGLI
2002	F	13	21.35	106.05	MIDGLI.49
2002	F	14	22.48	106.14	HEADGLI.21TRIFF
2002	F	15	26.31	106.31	HEADRIFF.28TRIFF
2002	F	16	28.04	106.44	HEADRIFF.05TPOOL
2002	F	17	28.93	106.18	MIDPOOL.70
2002	F	18	29.42	106.29	HEADPOOL.47BSTEP
2002	F	19	29.90	106.49	TOPSTEP.14TRIFF
2002	F	20	31.94	106.57	HEADRIFF.12TGLI
2002	F	20.5	33.09	106.51	10.0

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2002	F	21	33.46	106.49	MIDGLI.46
2002	F	22	36.35	106.60	HEADGLI.18BSTEP
2002	F	23	36.74	106.66	TAILPOOL.31TOPST
2002	F	24	37.43	106.62	BEND.44
2002	F	25	37.79	106.54	MIDPOOL.67
2002	F	25.5	38.27	106.60	9
2002	F	26	38.29	106.61	HEADPOOL.48
2002	F	27	38.47	106.69	TAILRIFF.25TSTEP
2002	F	28	39.18	106.72	BEND.29
2002	F	29	39.76	106.70	BEND.31
2002	F	30	40.59	106.72	HEADRIFF.27TGLI
2002	F	31	42.79	106.71	MID.44LOW
2002	F	32	43.19	106.73	MID.35HIGH
2002	F	32.5	43.28	106.73	8.0
2002	F	33	43.83	106.71	MID.43LOW
2002	F	34	44.60	106.73	HEADGLI.29BOTSTE
2002	F	35	44.78	106.80	TAILRIFF.33TSTEP
2002	F	36	47.24	106.92	HRIFF.23TRIFF
2002	F	37	47.76	107.00	TAIL.20HEADRIFF
2002	F	37.5	48.49	107.00	7.0
2002	F	38	49.69	107.01	HRIFF.17TRIFF
2002	F	39	50.24	107.09	TRIFF.28HRIFF
2002	F	40	51.63	107.11	HRIFF.13
2002	F	41	52.29	107.21	MIDRIFF.21
2002	F	41.5	53.18	107.20	6
2002	F	42	55.17	107.19	HEADGLI.29
2002	F	43	56.76	107.29	HRIFF.26TGLI
2002	F	44	57.00	107.34	HEADGLI.29
2002	F	44.5	57.03	107.34	5.0
2002	F	45	58.98	107.30	TRIFF.41HRIFF
2002	F	46	59.76	107.43	TRIFF.14HRIFF
2002	F	47	61.06	107.45	HRIFF.34TPOOL
2002	F	47.5	62.45	107.32	4
2002	F	48	62.93	107.28	MIDPOOL.90
2002	F	49	65.26	107.57	HEADPOOL.08BSTEP
2002	F	50	65.65	107.71	TRIFF.37TSTEP
2002	F	51	66.69	107.78	HRIFF.24
2002	F	51.5	67.36	107.91	3.0
2002	F	52	67.50	107.94	HTRIFF.14
2002	F	52.5	71.19	108.07	2
2002	F	53	73.02	108.14	TRIFF.22TGLI
2002	F	54	73.39	108.21	TGLI.37
2002	F	55	75.32	108.21	HGLI.51
2002	F	56	75.63	108.25	TRIFF.23
2002	F	56.5	76.30	108.29	1
2002	F	57	79.37	108.45	HRIFF.28
2002	F	58	80.07	108.57	TPOOL.30
2002	F	59	80.89	108.47	MIDPOOL.56
2002	F	60	81.92	108.58	HPOOL.28
2002	F	61	83.67	108.70	TGLI.20
2002	F	62	85.10	108.57	MIDGLI.61
2002	F	63	86.98	108.58	HRIFFBSTEP.58

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2002	F	64	87.11	108.70	BIS.33
2004	F	1	26.20	106.15	MID RIFF
2004	F	2	27.84	106.31	MID RIFF
2004	F	3	29.53	106.34	MID RIFF
2004	F	4	31.18	106.47	MID RIFF
2004	F	5	32.22	106.51	TAIL GLIDE
2004	F	5.5	33.09	106.51	10.0
2004	F	6	34.12	106.52	MID GLIDE
2004	F	7	35.95	106.55	HEAD GLIDE
2004	F	8	37.91	106.56	MID RIFF
2004	F	8.5	38.27	106.59	9.0
2004	F	9	39.66	106.68	MID RIFF
2004	F	10	42.28	106.74	MID RIFF
2004	F	10.5	43.28	106.73	8.0
2004	F	11	44.63	106.72	MID RIFF
2004	F	12	47.45	106.92	MID RIFF
2004	F	12.5	48.49	106.98	7.0
2004	F	13	50.75	107.10	MID RIFF
2004	F	14	52.88	107.16	MID RIFF
2004	F	14.5	53.18	107.17	6.0
2004	F	15	54.63	107.20	MID RIFF
2004	F	16	56.82	107.31	MID RIFF
2004	F	16.5	57.03	107.30	5
2004	F	17	58.91	107.27	MID RIFF
2004	F	18	61.09	107.45	MID RIFF
2004	F	18.5	62.45	107.47	4.0
2004	F	19	63.13	107.48	MID RIFF
2004	F	20	65.54	107.57	MID RIFF
2004	F	21	67.18	107.73	BOT STEP
2004	F	21.5	67.36	107.82	3.0
2004	F	22	67.71	107.98	TOP STEP
2004	F	23	69.81	108.07	MID RIFF
2004	F	23.5	71.19	108.01	2
2004	F	24	71.70	107.99	MID RIFF
2004	F	25	73.45	108.22	MID RIFF
2004	F	26	75.00	108.10	MID RIFF
2004	F	26.5	76.30	108.24	1.0
2004	F	27	76.79	108.29	MID RIFF
2004	F	28	78.55	108.45	MID RIFF
2004	F	29	80.81	108.48	MID RIFF
2004	F	30	82.61	108.65	MID RIFF
2005	F	1	23.46	106.16	MID RIFF
2005	F	2	25.41	106.28	MID RIFF
2005	F	3	26.18	106.26	MID RIFF
2005	F	4	27.68	106.30	MID RIFF
2005	F	5	28.33	106.36	MID RIFF
2005	F	6	29.11	106.35	MID RIFF
2005	F	7	29.78	106.34	MID RIFF
2005	F	8	31.74	106.44	MID RIFF
2005	F	8.5	33.09	106.46	10.0
2005	F	9	33.26	106.46	MID RIFF
2005	F	10	35.73	106.52	MID RIFF

Continued on Next Page...

Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2005	F	11	37.38	106.65	MID RIFF
2005	F	11.5	38.27	106.67	9.0
2005	F	12	39.17	106.69	MID RIFF
2005	F	13	41.67	106.78	MID RIFF
2005	F	13.5	43.28	106.78	8.0
2005	F	14	43.29	106.78	MID RIFF
2005	F	15	43.92	106.75	MID RIFF
2005	F	16	44.72	106.72	MID RIFF
2005	F	17	44.90	106.82	MID RIFF
2005	F	18	45.28	106.90	MID RIFF
2005	F	19	45.77	106.88	MID RIFF
2005	F	20	46.90	106.92	MID RIFF
2005	F	21	47.79	106.94	MID RIFF
2005	F	22	48.46	107.02	MID RIFF
2005	F	22.5	48.49	107.02	7.0
2005	F	23	50.10	107.07	MID RIFF
2005	F	24	50.51	107.17	MID RIFF
2005	F	25	51.40	107.08	MID RIFF
2005	F	26	51.84	107.23	MID RIFF
2005	F	26.5	53.18	107.09	6.0
2005	F	27	53.20	107.08	MID RIFF
2005	F	28	54.09	107.19	MID RIFF
2005	F	29	55.81	107.25	MID RIFF
2005	F	29.5	57.03	107.35	5
2005	F	30	57.20	107.36	MID RIFF
2005	F	31	58.99	107.39	MID RIFF
2005	F	32	59.68	107.39	MID RIFF
2005	F	33	60.09	107.40	MID RIFF
2005	F	34	61.27	107.46	TAIL POOL
2005	F	35	62.39	107.43	MID POOL
2005	F	35.5	62.45	107.42	4.0
2005	F	36	62.77	107.37	MID POOL
2005	F	37	63.15	107.22	MID POOL
2005	F	38	63.90	107.57	HEAD POOL
2005	F	39	64.83	107.53	MID RIFF
2005	F	40	65.70	107.63	MID RIFF
2005	F	41	66.94	107.66	MID RIFF
2005	F	41.5	67.36	107.86	3
2005	F	42	67.69	108.02	MID RIFF
2005	F	43	69.53	108.09	MID RIFF
2005	F	43.5	71.19	108.04	2
2005	F	44	71.45	108.03	MID RIFF
2005	F	45	72.94	108.14	TAIL POOL
2005	F	46	74.11	108.25	MID POOL
2005	F	47	75.08	108.17	HEAD POOL
2005	F	48	76.00	108.27	MID RIFF
2005	F	48.5	76.30	108.29	1.0
2005	F	49	78.23	108.44	MID RIFF
2005	F	50	79.45	108.51	MID RIFF
2005	F	51	81.34	108.59	MID RIFF
2005	F	52	83.40	108.65	MID RIFF
2006	F	1	28.56	106.32	TAIL POOL

Continued on Next Page...

Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2006	F	2	28.95	106.30	MID POOL
2006	F	3	29.61	106.29	HEAD POOL
2006	F	4	30.29	106.58	MID RIF
2006	F	5	32.47	106.60	MID RIF
2006	F	5.5	33.09	106.59	10
2006	F	6	35.44	106.57	MID RIF
2006	F	7	36.62	106.61	MID RIF
2006	F	8	36.93	106.69	MID RIF
2006	F	9	37.43	106.62	MID RIF
2006	F	9.5	38.27	106.60	9
2006	F	10	38.35	106.60	MID RIF
2006	F	11	38.60	106.69	MID RIF
2006	F	12	40.73	106.76	MID RIF
2006	F	13	41.51	106.75	MID RIF
2006	F	14	43.14	106.79	TAIL POOL
2006	F	14.5	43.28	106.77	8
2006	F	15	43.84	106.71	MID POOL
2006	F	16	44.57	106.72	HEAD POOL
2006	F	17	44.97	106.80	MID RIF
2006	F	18	45.66	106.88	MID RIF
2006	F	19	47.59	106.93	MID RIF
2006	F	20	47.91	106.99	MID RIF
2006	F	21	48.16	107.02	MID RIF
2006	F	21.5	48.49	107.02	7.0
2006	F	22	50.05	107.04	MID RIF
2006	F	23	51.36	107.07	BOTTOM ROCK STEP
2006	F	24	51.57	107.27	TOP ROCK STEP
2006	F	25	52.98	107.30	MID RIF
2006	F	25.5	53.18	107.29	6.0
2006	F	26	54.02	107.24	WOOD DEBRIS DWN
2006	F	27	54.86	107.28	WOODY DEBRIS UP
2006	F	28	56.54	107.41	MID RIF
2006	F	28.5	57.03	107.39	5.0
2006	F	29	57.16	107.38	TAIL POOL
2006	F	30	58.00	107.32	MID POOL
2006	F	31	58.42	107.36	HEAD POOL
2006	F	32	59.08	107.46	MID POOL
2006	F	33	59.75	107.49	MID POOL
2006	F	34	61.04	107.55	MID POOL
2006	F	35	62.31	107.48	TAIL POOL
2006	F	35.5	62.45	107.45	4.0
2006	F	36	63.00	107.32	MID POOL
2006	F	37	63.87	107.36	HEAD POOL
2006	F	38	64.31	107.57	MID RIF
2006	F	39	65.24	107.46	WOODY DEBRIS DWN
2006	F	40	65.77	107.55	WOODY DEBRIS UP
2006	F	41	66.40	107.60	MID RIF
2006	F	42	67.07	107.75	MID RIF
2006	F	42.5	67.36	107.83	3
2006	F	43	67.57	107.88	MID RIF
2006	F	44	69.44	108.02	MID RIF
2006	F	45	70.74	108.09	MID RIF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2006	F	45.5	71.19	108.08	2
2006	F	46	71.81	108.08	MID RIF
2006	F	47	72.97	108.08	MID RIF
2006	F	48	75.04	108.10	MID RIF
2006	F	49	75.69	108.28	MID RIF
2006	F	49.5	76.30	108.31	1.0
2006	F	50	77.10	108.34	MID RIF
2006	F	51	77.95	108.46	MID RIF
2006	F	52	78.17	108.56	MID RIF
2006	F	53	80.02	108.56	MID RIF
2006	F	54	80.82	108.48	MID RIF
2006	F	55	81.46	108.63	MID RIF
2007	F	1	24.03	106.20	MID RIFF
2007	F	2	26.27	106.28	MID RIFF
2007	F	3	28.36	106.32	TAIL POOL
2007	F	4	29.09	106.12	MID POOL
2007	F	5	29.73	106.32	HEAD POOL
2007	F	6	30.16	106.56	MID RIFF
2007	F	7	31.66	106.59	TAIL POOL
2007	F	7.5	33.09	106.57	10.0
2007	F	8	34.49	106.56	MID POOL
2007	F	9	36.63	106.63	HEAD POOL
2007	F	9.5	38.27	106.69	9
2007	F	10	38.51	106.70	MID RIFF
2007	F	11	40.14	106.77	MID RIFF
2007	F	12	42.76	106.80	TAIL POOL
2007	F	12.5	43.28	106.77	8.0
2007	F	13	44.14	106.72	MID POOL
2007	F	14	44.73	106.82	HEAD POOL
2007	F	15	46.47	106.93	MID RIFF
2007	F	16	47.82	106.93	MID RIFF
2007	F	17	48.34	107.07	MID RIFF
2007	F	17.5	48.49	107.07	7.0
2007	F	18	49.97	107.13	MID RIFF
2007	F	19	51.33	107.23	MID RIFF
2007	F	19.5	53.18	107.30	6.0
2007	F	20	53.21	107.30	MID RIFF
2007	F	21	54.48	107.31	MID RIFF
2007	F	22	55.54	107.33	MID RIFF
2007	F	23	56.07	107.38	MID RIFF
2007	F	23.5	57.03	107.40	5.0
2007	F	24	58.73	107.42	MID RIFF
2007	F	25	60.62	107.60	TAIL POOL
2007	F	25.5	62.45	107.41	4
2007	F	26	62.77	107.37	MID POOL
2007	F	27	63.91	107.58	MID POOL
2007	F	28	64.67	107.28	MID POOL
2007	F	29	65.76	107.65	HEAD POOL
2007	F	30	67.10	107.78	MID RIFF
2007	F	30.5	67.36	107.84	3.0
2007	F	31	67.94	107.97	MID RIFF
2007	F	32	69.12	108.06	MID RIFF

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2007	F	33	70.99	108.10	MID RIFF
2007	F	33.5	71.19	108.11	2
2007	F	34	72.19	108.19	MID RIFF
2007	F	35	73.60	108.29	TAIL POOL
2007	F	36	73.64	108.28	TAIL POOL
2007	F	37	75.02	108.10	MID POOL
2007	F	38	75.48	108.30	HEAD POOL
2007	F	38.5	76.30	108.33	1
2007	F	39	77.25	108.37	MID RIFF
2007	F	40	78.05	108.52	MID RIFF
2007	F	41	80.41	108.66	MID RIFF
2007	F	42	82.37	108.67	MID RIFF
2007	F	43	84.97	108.73	MID RIFF
2008	F	1	18.80	106.17	MID RIFF
2008	F	2	21.01	106.26	MID RIFF
2008	F	3	22.60	106.26	MID RIFF
2008	F	4	24.11	106.18	MID RIFF
2008	F	5	24.92	106.38	MID RIFF
2008	F	6	27.21	106.33	MID RIFF
2008	F	7	29.45	106.70	MID RIFF
2008	F	8	32.02	106.69	MID RIFF
2008	F	8.5	33.09	106.67	10
2008	F	9	34.25	106.66	MID RIFF
2008	F	9.5	38.27	106.72	9
2008	F	10	39.07	106.73	MID RIFF
2008	F	11	42.30	106.76	MID RIFF
2008	F	11.5	43.28	106.78	8
2008	F	12	44.88	106.80	MID RIFF
2008	F	13	47.55	106.90	MID RIFF
2008	F	13.5	48.49	106.95	7
2008	F	14	50.52	107.07	MID RIFF
2008	F	15	52.72	107.14	MID RIFF
2008	F	15.5	53.18	107.20	6
2008	F	16	55.64	107.51	MID RIFF
2008	F	16.5	57.03	107.48	5
2008	F	17	58.61	107.44	MID RIFF
2008	F	17.5	62.45	107.59	4
2008	F	18	62.52	107.59	TAIL POOL
2008	F	19	64.64	107.24	MID POOL
2008	F	20	65.48	107.58	HEAD POOL
2008	F	21	65.89	107.94	MID RIFF
2008	F	21.5	67.36	108.04	3
2008	F	22	68.68	108.14	MID RIFF
2008	F	22.5	71.19	108.18	2
2008	F	23	72.46	108.20	MID RIFF
2008	F	24	75.17	108.13	MID RIFF
2008	F	24.5	76.30	108.26	1
2008	F	25	78.87	108.54	MID RIFF
2008	F	26	80.95	108.47	MID RIFF
2008	F	27	83.79	108.61	MID RIFF
2008	F	28	86.79	108.66	MID RIFF
2008	F	29	88.14	109.33	TAIL POOL

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Table D.4 – Continued

Year	Reach	Point Number	Adjusted Dist. (m)	Adjusted Elev. (m)	Point Description
2008	F	30	89.77	109.15	MID POOL
2008	F	31	90.50	109.53	HEAD POOL
2008	F	32	92.99	109.62	MID RIFF
2008	F	33	94.46	109.70	MID RIFF
2008	F	34	95.54	109.65	MID RIFF
2008	F	35	96.99	109.94	TAIL POOL
2008	F	36	97.99	109.82	MID POOL
2008	F	37	99.28	109.73	MID POOL
2008	F	38	100.52	109.93	HEAD POOL
2008	F	39	102.28	110.05	MID RIFF
2008	F	40	104.08	109.98	MID RIFF
2008	F	41	105.07	110.27	MID RIFF
2008	F	42	106.95	110.32	MID RIFF
2008	F	43	108.03	110.55	TAIL POOL
2008	F	44	109.67	110.25	MID POOL
2008	F	45	110.65	110.58	HEAD POOL
2008	F	46	111.47	110.52	MID RIFF
2008	F	47	113.03	110.67	TAIL POOL
2008	F	48	113.70	110.58	MID POOL
2008	F	49	114.76	110.71	HEAD POOL

Appendix E

VBA code

This code was written in VBA for ExcelTM 2003 and was used in the cross-section viewer spreadsheet along with parameter queries to access the database and graph the data.

Cross Section Viewer

```
'public variables
Public MovieFrame As Integer
Public chartmode As Integer
Public all_data() As Variant
Public all_data_row As Integer

Public Sub MovieMode() 'displays one cross section at a time

Dim TheChart
Dim a As Integer
Dim i As Integer
Dim year_address() As Variant
RowCount = Range("xs_data!xs_data").Rows.Count
Dim xrange As Range
Dim yrange As Range
Dim rx1 As Range
Dim rx2 As Range
Dim ry1 As Range
Dim ry2 As Range
Dim year As Range

ReDim year_address(1 To RowCount, 2)

i = 0 'i is the number of years of survey data
a = 2
year_address(1, 1) = 2
' assigns the range address to different years of surveys
Do While Range("xs_data!xs_data").Cells(a, 1).Value > 0
If Range("xs_data!xs_data").Cells(a, 1).Value <> Range("xs_data!xs_data").Cells(a + 1, 1).Value Then
i = i + 1
year_address(i + 1, 1) = a + 1
year_address(i, 2) = a
' Debug.Print "address: " & i & " " & year_address(i, 1) & " " & year_address(i, 2)

End If
a = a + 1
Debug.Print "a: " & a
Loop

Set TheChart = Worksheets("main").ChartObjects(1).Chart

' delete old data
chartnum = TheChart.SeriesCollection.Count
For Index = chartnum To 1 Step -1
```

```

        TheChart.SeriesCollection(Index).Delete
    Next Index

    ' start of series creation
    'this needs to use a static variable and loop through them. Now it uses a global variable that
    'the regular updatechart can access

    MovieFrame = MovieFrame + 1

    If MovieFrame > i Then
        MovieFrame = 1
    End If

    ' If MovieFrame = 1 Then
    '
    '     With ActiveChart.Axes(xlCategory)
    '     .MinimumScaleIsAuto = True
    '     .MaximumScaleIsAuto = True
    '     End With
    '
    '     With TheChart.Axes(xlValue)
    '     .MinimumScaleIsAuto = True
    '     .MaximumScaleIsAuto = True
    '     End With
    '     With TheChart.Axes(xlCategory)
    '     .MinimumScaleIsAuto = True
    '     .MaximumScaleIsAuto = True
    '     End With
    ' Else
    '     With TheChart.Axes(xlValue)
    '     .MinimumScaleIsAuto = False
    '     .MaximumScaleIsAuto = False
    '     End With
    '     With TheChart.Axes(xlCategory)
    '     .MinimumScaleIsAuto = False
    '     .MaximumScaleIsAuto = False
    '     End With
    ' End If

    b = MovieFrame
    Set rx1 = Worksheets("xs_data").Cells(year.address(b, 1), 5)
    ' Debug.Print "rx1:" & rx1.Address
    Set rx2 = Worksheets("xs_data").Cells(year.address(b, 2), 5)
    ' Debug.Print "rx2:" & rx2.Address
    Set ry1 = Worksheets("xs_data").Cells(year.address(b, 1), 6)
    ' Debug.Print "ry1:" & ry1.Address
    Set ry2 = Worksheets("xs_data").Cells(year.address(b, 2), 6)
    ' Debug.Print "ry2:" & ry2.Address
    Set year = Worksheets("xs_data").Cells(year.address(b, 1), 1)
    ' Debug.Print "year:" & year.Address
    Set xrange = Range(rx1, rx2)
    ' Debug.Print "xrange:" & xrange.Address
    Set yrange = Range(ry1, ry2)
    ' Debug.Print "yrange:" & yrange.Address

    TheChart.SeriesCollection.Add Source:=Range("hundreds")

    TheChart.SeriesCollection(1).XValues = xrange
    TheChart.SeriesCollection(1).Values = yrange
    TheChart.SeriesCollection(1).Name = year

    greyColor = 30 * (i - b)
    Dim marker As Integer
    Select Case b
        Case 1
            marker = 1
        Case 2
            marker = 2
        Case 3
            marker = 3
        Case 4
            marker = 5
        Case 5
            marker = 8
        Case 6
            marker = 9
        Case 7
            marker = 1
    End Select

    With TheChart.SeriesCollection(1)
        .Border.ColorIndex = (17 + i - b) * RGB(greyColor, greyColor, greyColor)
        .Border.Weight = xlMedium
        .MarkerStyle = marker
        .MarkerBackgroundColorIndex = xlNone
        .MarkerForegroundColorIndex = (17 + i - b) * RGB(greyColor, greyColor, greyColor)
        .MarkerSize = 5
    End With

```

```

End With

'''Next b 'not needed for movie mode

' end of series creation
Dim ChartName As Variant
Dim Section As String
Dim Number As String

Section = Range("main!group").Value
Number = Range("main!number").Value

ChartName = "Little Creek X-Section " & Section & Number

TheChart.ChartTitle.Characters.Text = ChartName

End Sub

Public Sub UpdateChart()

'update data ranges
Range("Main!offset_query1").QueryTable.Refresh BackgroundQuery:=False
Range("xs_data!xs_data").QueryTable.Refresh BackgroundQuery:=False
Range("Main!Query_from_MS_Access_Database_1").QueryTable.Refresh BackgroundQuery:=False

chartmode = 1
Dim TheChart
Dim a As Integer
Dim i As Integer
Dim year_address() As Variant
RowCount = Range("xs_data!xs_data").Rows.Count
Dim xrange As Range
Dim yrange As Range
Dim rx1 As Range
Dim rx2 As Range
Dim ry1 As Range
Dim ry2 As Range
Dim year As Range

ReDim year_address(1 To RowCount, 2)

i = 0
a = 2
year_address(1, 1) = 2
' assigns the range address to different years of surveys
Do While Range("xs_data!xs_data").Cells(a, 1).Value > 0
If Range("xs_data!xs_data").Cells(a, 1).Value <> Range("xs_data!xs_data").Cells(a + 1, 1).Value Then
i = i + 1
year_address(i + 1, 1) = a + 1
year_address(i, 2) = a
' Debug.Print "address: " & i & " " & year_address(i, 1) & " " & year_address(i, 2)

End If
a = a + 1
'Debug.Print "a: " & a
Loop

Set TheChart = Worksheets("main").ChartObjects(1).Chart

chartnum = TheChart.SeriesCollection.Count
For Index = chartnum To 1 Step -1
TheChart.SeriesCollection(Index).Delete
Next Index

For b = 1 To i
Set rx1 = Worksheets("xs_data").Cells(year_address(b, 1), 5)
' Debug.Print "rx1:" & rx1.Address
Set rx2 = Worksheets("xs_data").Cells(year_address(b, 2), 5)
' Debug.Print "rx2:" & rx2.Address
Set ry1 = Worksheets("xs_data").Cells(year_address(b, 1), 6)
' Debug.Print "ry1:" & ry1.Address
Set ry2 = Worksheets("xs_data").Cells(year_address(b, 2), 6)
' Debug.Print "ry2:" & ry2.Address
Set year = Worksheets("xs_data").Cells(year_address(b, 1), 1)
' Debug.Print "year:" & year.Address
Set xrange = Range(rx1, rx2)
' Debug.Print "xrange:" & xrange.Address
Set yrange = Range(ry1, ry2)
' Debug.Print "yrange:" & yrange.Address

TheChart.SeriesCollection.Add Source:=Range("hundreds")

```

```

TheChart.SeriesCollection(b).XValues = xrange
TheChart.SeriesCollection(b).Values = yrange
TheChart.SeriesCollection(b).Name = year

'greyColor = 30 * (i - b) went to indexed color presents instead
Dim marker As Integer
Select Case b
    Case 1
        marker = 1
    Case 2
        marker = 2
    Case 3
        marker = 3
    Case 4
        marker = 5
    Case 5
        marker = 8
    Case 6
        marker = 9
    Case 7
        marker = 1
End Select

With TheChart.SeriesCollection(b)
    .Border.ColorIndex = (17 + i - b) 'RGB(greyColor, greyColor, greyColor)
    .Border.Weight = xlMedium
    .MarkerStyle = marker
    .MarkerBackgroundColorIndex = xlNone
    .MarkerForegroundColorIndex = (17 + i - b) 'RGB(greyColor, greyColor, greyColor)
    .MarkerSize = 5
End With

Next b

Dim ChartName As Variant
Dim Section As String
Dim Number As String

Section = Range("main!group").Value
Number = Range("main!number").Value

ChartName = "Little Creek X-Section " & Section & Number

TheChart.ChartTitle.Characters.Text = ChartName
TheChart.Legend.Left = 325

MovieFrame = 0

'Worksheets("main").Activate

Call thalweg_calc
Call area_calc
Call meanelev_calc

End Sub

Sub deletecheck()
    Set TheChart = Worksheets("main").ChartObjects(1).Chart
    For chartnum = TheChart.SeriesCollection.Count To 1 Step -1
        TheChart.SeriesCollection(chartnum).Delete
    Next chartnum
End Sub

Sub selectxs()
    Range("xs_data!xs_data").BorderAround Weight:=xlThin
End Sub

Sub Create_Excel_Palette_By_RGB()
    'Purpose: Assigns the RGB value to each of 56 colors available to Excel.
    'Special Notes: The Excel index values are not in logical order in Excel 97 and 2000 and
    '                2002.
    'The index values as follows work row by row from the top and left to right within each
    '                row.

    'The sixth row The first default row for charts
    ActiveWorkbook.Colors(17) = RGB(255, 140, 0)
    ActiveWorkbook.Colors(18) = RGB(0, 0, 0)
    ActiveWorkbook.Colors(19) = RGB(50, 50, 50)
    ActiveWorkbook.Colors(20) = RGB(90, 90, 90)
    ActiveWorkbook.Colors(21) = RGB(130, 130, 130)

    'swatch 1 from left
    'swatch 2 from left
    'swatch 3 from left
    'swatch 4 from left
    'swatch 5 from left

```

```

ActiveWorkbook.Colors(22) = RGB(180, 180, 180)           'swatch 6 from left
ActiveWorkbook.Colors(23) = RGB(215, 215, 215)           'swatch 7 from left
ActiveWorkbook.Colors(24) = RGB(225, 225, 225)           'swatch 8 from left

'The seventh row. The second default row for charts
ActiveWorkbook.Colors(25) = RGB(120, 120, 120)           'swatch 1 from left
ActiveWorkbook.Colors(26) = RGB(135, 135, 135)           'swatch 2 from left
ActiveWorkbook.Colors(27) = RGB(150, 150, 150)           'swatch 3 from left
ActiveWorkbook.Colors(28) = RGB(165, 165, 165)           'swatch 4 from left
ActiveWorkbook.Colors(29) = RGB(180, 180, 180)           'swatch 5 from left
ActiveWorkbook.Colors(30) = RGB(205, 205, 205)           'swatch 6 from left
ActiveWorkbook.Colors(31) = RGB(220, 220, 220)           'swatch 7 from left
ActiveWorkbook.Colors(32) = RGB(235, 235, 235)           'swatch 8 from left
End Sub

Sub reset_colors()
Workbooks("cross section analysis.xls").Colors = Workbooks("book1.xls").Colors
End Sub

Sub thalweg_calc()

Dim thalweg_depths(20, 6) As Variant 'once this is 20 years old we gotta redo it

i = 0
a = 2

'assigns the range address to different years of surveys
Do While Range("xs_data!xs_data").Cells(a, 1).Value <> 0 'while there is data in the range
do this loop

'if the thalweg depth for the row is empty or is lower, store it.
If thalweg_depths(i, 3) = Empty Or thalweg_depths(i, 3) > Range("xs_data!xs_data").
Cells(a, 6) Then
    thalweg_depths(i, 3) = Range("xs_data!xs_data").Cells(a, 6) 'thalweg elevation
End If
'when the end of a set of years is reached, store that year and start on the next row
in the thalweg array
If Range("xs_data!xs_data").Cells(a, 1).Value <> Range("xs_data!xs_data").Cells(a + 1,
1).Value Then
    thalweg_depths(i, 0) = Range("xs_data!xs_data").Cells(a, 1).Value ' year
    'calculate annual change and cumulative change
    thalweg_depths(i, 1) = Range("xs_data!xs_data").Cells(a, 2) ' section
    thalweg_depths(i, 2) = Range("xs_data!xs_data").Cells(a, 3) ' number
    thalweg_depths(i, 6) = Str(Format(Range("xs_data!xs_data").Cells(a, 1).Value))
    & Range("xs_data!xs_data").Cells(a, 2) & Format(Range("xs_data!xs_data").
Cells(a, 3))
    If i <> 0 Then
        thalweg_depths(i, 4) = thalweg_depths(i, 3) - thalweg_depths(i - 1, 3) '
        annual change
        thalweg_depths(i, 5) = thalweg_depths(i, 3) - thalweg_depths(0, 3) '
        cumulative change
    End If
    'copies data to public all data array
    If chartmode = 0 Then
        For k = 0 To 6
            all_data(all_data_row + i, k) = thalweg_depths(i, k)
        Next
    End If

    i = i + 1

End If
a = a + 1
Loop

Range("Main!thalwegs") = thalweg_depths

End Sub

Sub area_calc()

Dim area_calc(20, 6) As Variant 'stores the results of the area calculations
Dim area_elevation As Variant

Dim x_s As Single
Dim y_s As Single
'Range("xs_data!xs_data").Cells(a, 5) distance
'Range("xs_data!xs_data").Cells(a, 6) elevation

Dim area_sum
```

```

        i = 0
        a = 2
        area_sum = 0
        'set area_elevation from value in spreadsheet
        area_elevation = Range("Main!area_elevation")

        'assigns the range address to different years of surveys
        Do While Range("xs_data!xs_data").Cells(a, 1).Value <> 0 'while there is data in the range
            do this loop

            'is the first point < area_elevation, if yes interpolate that point, if no find new
            point
            If Range("xs_data!xs_data").Cells(a, 6) <= area_elevation And Range("xs_data!xs_data")
                .Cells(a, 1).Value = Range("xs_data!xs_data").Cells(a + 1, 1).Value Then
                'need to interpolate start
                x1 = Range("xs_data!xs_data").Cells(a, 5)
                x2 = Range("xs_data!xs_data").Cells(a + 1, 5)
                y1 = Range("xs_data!xs_data").Cells(a, 6)
                y2 = Range("xs_data!xs_data").Cells(a + 1, 6)

                area_sum = area_sum + (0.5 * ((area_elevation - y1) + (area_elevation - y2)) * (x2
                    - x1))

                'Debug.Print area_sum

            End If

            'when the end of a set of years is reached, store that year and start on the next row
            in the area array
            If Range("xs_data!xs_data").Cells(a, 1).Value <> Range("xs_data!xs_data").Cells(a + 1,
                1).Value Then
                area_calc(i, 0) = Range("xs_data!xs_data").Cells(a, 1).Value ' year
                area_calc(i, 3) = area_sum
                'calculate annual change and cumulative change
                area_calc(i, 1) = Range("xs_data!xs_data").Cells(a, 2) ' section
                area_calc(i, 2) = Range("xs_data!xs_data").Cells(a, 3) ' number
                area_calc(i, 6) = Str(Format(Range("xs_data!xs_data").Cells(a, 1).Value)) &
                    Range("xs_data!xs_data").Cells(a, 2) & Format(Range("xs_data!xs_data").
                        Cells(a, 3)) 'code

                If i <> 0 Then
                    area_calc(i, 4) = area_calc(i, 3) - area_calc(i - 1, 3) ' annual change
                    area_calc(i, 5) = area_calc(i, 3) - area_calc(0, 3) ' cumulative change
                End If
                If chartmode = 0 Then
                    For k = 0 To 2
                        all_data(all_data_row + i, k + 7) = area_calc(i, k + 3)
                    Next
                End If

                area_sum = 0
                i = i + 1

            End If

            a = a + 1
        Loop

        Range("Main!area_changes") = area_calc
        'For i = 0 To 7
        'Debug.Print area_calc(i, 0) & " " & area_calc(i, 3)
        'Next
    End Sub

Sub meanelev_calc()

Dim elev_calc(20, 10) As Variant 'stores the results of the area calculations up to 20 years?
Dim bf_elevation As Variant

Dim x_s As Single
Dim y_s As Single
'Range("xs_data!xs_data").Cells(a, 5) distance
'Range("xs_data!xs_data").Cells(a, 6) elevation

Dim area_sum

        i = 0
        a = 2
        area_sum = 0
        'set area_elevation from value in spreadsheet
        bf_elevation = Range("Main!bf_elevation")

        'assigns the range address to different years of surveys

```

```

Do While Range("xs_data!xs_data").Cells(a, 1).Value <> 0 'while there is data in the range
do this loop

'cases 1- both above bf = do nothing. 2- first above, second below = interpolate start
pt, then calculate area.\
'3- both below = calculate normally. 4 - first below bf, second above = interpolate
end pt, calculate area

'is point same year as next point, if yes check case of that point, if no find new
point
If Range("xs_data!xs_data").Cells(a, 1).Value = Range("xs_data!xs_data").Cells(a + 1,
1).Value Then
'need to interpolate start

x1 = Range("xs_data!xs_data").Cells(a, 5)
x2 = Range("xs_data!xs_data").Cells(a + 1, 5)
y1 = Range("xs_data!xs_data").Cells(a, 6)
y2 = Range("xs_data!xs_data").Cells(a + 1, 6)
'Debug.Print x1; x2; y1; y2

If y1 >= bf_elevation And y2 >= bf_elevation Then bfcase = 1 'shouldn't happen
because of parent if statement
If y1 >= bf_elevation And y2 <= bf_elevation Then bfcase = 2 'first point crossing
bf
If y1 <= bf_elevation And y2 <= bf_elevation Then bfcase = 3 'normal area calc
If y1 <= bf_elevation And y2 >= bf_elevation Then bfcase = 4 'last point crossing
bf

'Debug.Print "bfcase " & bfcase
Select Case bfcase
Case 1
Case 2
'interpolate point, calculate area
bf_x1 = intXcoord(x1, x2, y1, y2, x1, x2, bf_elevation, bf_elevation)
area_sum = area_sum + (0.5 * ((bf_elevation - y2)) * (x2 - bf_x1))
Case 3
area_sum = area_sum + (0.5 * ((bf_elevation - y1) + (bf_elevation - y2)) *
(x2 - x1))
Case 4
bf_x2 = intXcoord(x1, x2, y1, y2, x1, x2, bf_elevation, bf_elevation)
area_sum = area_sum + (0.5 * (bf_elevation - y1) * (bf_x2 - x1))
End Select

'Debug.Print "bf_x1 = " & bf_x1 & " bf_x2 " & bf_x2

End If

'when the end of a set of years is reached, store that year and start on the next row
in the area array
If Range("xs_data!xs_data").Cells(a, 1).Value <> Range("xs_data!xs_data").Cells(a + 1,
1).Value Then
elev_calc(i, 0) = Range("xs_data!xs_data").Cells(a, 1).Value ' year
elev_calc(i, 3) = bf_elevation - (area_sum / (bf_x2 - bf_x1)) 'bf_elev - bfarea/
bfwidth = mean bed elevation in bf channel
elev_calc(i, 7) = area_sum 'area under bf elevation
elev_calc(i, 10) = bf_x2 - bf_x1 'bf width
'calculate annual change and cumulative change
elev_calc(i, 1) = Range("xs_data!xs_data").Cells(a, 2) ' section
elev_calc(i, 2) = Range("xs_data!xs_data").Cells(a, 3) ' number
elev_calc(i, 6) = Format(Range("xs_data!xs_data").Cells(a, 1).Value) & Range("
xs_data!xs_data").Cells(a, 2) & Format(Range("xs_data!xs_data").Cells(a,
3)) 'code
If i <> 0 Then
elev_calc(i, 4) = elev_calc(i, 3) - elev_calc(i - 1, 3) ' annual change
elev_calc(i, 5) = elev_calc(i, 3) - elev_calc(0, 3) ' cumulative change
elev_calc(i, 8) = elev_calc(i, 7) - elev_calc(i - 1, 7) ' annual change bf
area
elev_calc(i, 9) = elev_calc(i, 7) - elev_calc(0, 7) ' cumulative change bf
area
End If

If chartmode = 0 Then
For k = 0 To 2
all_data(all_data_row + i, k + 10) = elev_calc(i, k + 3)
all_data(all_data_row + i, k + 13) = elev_calc(i, k + 7) 'skips the code
column
Next
all_data(all_data_row + i, 16) = elev_calc(i, 10) 'bf width
End If

area_sum = 0

i = i + 1

```



```

End If

a = a + 1
Loop
If chartmode = 0 Then
    all_data_row = all_data_row + i
End If
Range("Main!mean-elevation") = elev_calc
'For i = 0 To 7
'Debug.Print area_calc(i, 0) & " " & area_calc(i, 3)
'Next
End Sub

Sub data_summary()

all_data_row = 0
chartmode = 0

ReDim all_data(1000, 17)

For i = 1 To 6
    Select Case i
        Case 1
            letter = "A"
        Case 2
            letter = "B"
        Case 3
            letter = "C"
        Case 4
            letter = "D"
        Case 5
            letter = "E"
        Case 6
            letter = "F"
    End Select
    For j = 1 To 10
        Section = j
        Range("Main!Group") = letter
        Range("main!Number") = Section
        Range("Main!offset_query1").QueryTable.Refresh BackgroundQuery:=False
        Range("xs.data!xs.data").QueryTable.Refresh BackgroundQuery:=False
        Range("Main!Query_from_MS_Access_Database_1").QueryTable.Refresh BackgroundQuery:=False
        False

        Call UpdateChart
        chartmode = 0
        Call thalweg_calc
        Call area_calc
        Call meanelev_calc

    Next
Next

Range("All-data!all-data") = all_data
End Sub

Public Function intXcoord(Lx1 As Variant, Lx2 As Variant, Ly1 As Variant, Ly2 As Variant, sx1
    As Variant, sx2 As Variant, sy1 As Variant, sy2 As Variant)

's is for section line, L is for long profile line

Dim mL As Double 'slope of long line
Dim ms As Double 'slope of section line
Dim bL As Double 'intercept of long line
Dim bs As Double 'intercept of section line

If Lx2 - Lx1 = 0 Then Lx2 = Lx2 + 0.01

mL = (Ly2 - Ly1) / (Lx2 - Lx1) 'calculate slope of L line
bL = -mL * Lx1 + Ly1 'calculate intercept of L line

ms = (sy2 - sy1) / (sx2 - sx1) 'calculate slope of s line
bs = -ms * sx1 + sy1 'calculate intercept of s line

'solve for x coordinate of intercept

intXcoord = (bL - bs) / (ms - mL)

End Function

Longitudinal Profile Stretcher

Option Explicit

Public Function intXcoord(Lx1 As Double, Lx2 As Double, Ly1 As Double, Ly2 As Double, sx1 As
    Double, sx2 As Double, sy1 As Double, sy2 As Double)

```

```

's is for section line , L is for long profile line

Dim mL As Double 'slope of long line
Dim ms As Double 'slope of section line
Dim bL As Double 'intercept of long line
Dim bs As Double 'intercept of section line

mL = (Ly2 - Ly1) / (Lx2 - Lx1) 'calculate slope of L line
bL = -mL * Lx1 + Ly1 'calculate intercept of L line

ms = (sy2 - sy1) / (sx2 - sx1) 'calculate slope of s line
bs = -ms * sx1 + sy1 ' calculate intercept of s line

'solve for x coordinate of intercept

intXcoord = (bL - bs) / (ms - mL)

End Function

```