PES Environmental, Inc.
Engineering & Environmental Services

A Report Prepared for:

Weyerhaeuser NR Company
PO Box 1391
New Bern, NC 28561

Attention: Mr. Steve DiPiero
Environmental Manager

EVALUATION OF MONITORING DATA FROM THE CLOSED INDUSTRIAL LANDFILL AND RESIDUALS SURFACE DISPOSAL SYSTEM, WEYERHAEUSER NEW BERN, NC CELLULOSE FIBERS MILL

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By:

Glen M. Wyatt, L.G.
Associate Hydrogeologist

NORTH CAROLINA LICENSED SEAL 2287 GEOLOGIST GLEN M. WYATT

920.098.01

1215 Fourth Avenue, Suite 1350 • Seattle, Washington 98161-1012 • Tel (206) 529-3980 • Fax (206) 529-398

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EXECUTIVE SUMMARY

Disposal of residuals and wastes from Weyerhaeuser NR Company's Cellulose Fiber Mill in New Bern, North Carolina has been managed at two sites on the Mill property. The 30-acre Industrial Landfill (ILF) began receiving waste when the Mill opened in 1969, operated through December 2002, and was closed in 2004. The 16-acre Residuals Surface Disposal System (RSDS) consists of two lined cells. Residuals disposal in the northern cell (Cell A) began in January 2003.

Groundwater and leachate monitoring are being conducted at each site as required by the RSDS and ILF permits. Collection of groundwater monitoring data began at the ILF in 1989. Post-closure groundwater monitoring at the ILF is conducted under North Carolina Department of Environment and Natural Resources (NCDENR) Division of Waste Management (DWM) Permit 25-02. Water quality samples are collected twice per year from three shallow wells (OWS-01, OSW-02, and OSW-03), a deeper well (OWD-01), and at the southern end of the leachate collection ditch along the east side of the ILF (sample site LC-01). The leachate collection ditch is downgradient of the ILF and captures leachate and groundwater flowing from beneath the ILF. The leachate is pumped into the Mill's wastewater treatment system.

The RSDS operates under the NCDENR Division of Water Quality (DWQ) Surface Disposal Permit WQ00004084. Groundwater quality monitoring is performed in March, July, and November using a system of four monitoring wells (L-01, L-02, L-03, and L-04) adjacent to Cell A and Cell B of the RSDS. Leachate and stormwater from Cell A flows into Cell B, where it mixes with additional non-contact stormwater, and discharges via pipeline to the north end of the ILF leachate collection ditch. Leachate monitoring is not required by the permit, but the Mill has obtained leachate samples from a sump at the beginning of the pipeline that carries the leachate to the ILF leachate collection ditch for its characterization.

Groundwater Flow Direction and Velocity

Groundwater in the vicinity of the RSDS and ILF generally flows to the northeast towards Swift Creek. Eight wells were installed at the ILF and RSDS in 1989. The groundwater elevation is typically about 3 to 5 feet in the ILF/RSDA area and Swift Creek elevation is generally about 1 to 2 feet, giving a hydraulic gradient of about 0.003 between the two disposal sites and Swift Creek. Swift Creek is approximately 200 to 1500 feet east of the ILF and RSDS. The low-lying area between Swift Creek, the ILF, and the RSDS is frequently (approximately every one to three years) inundated by flooding caused by thunderstorms, hurricanes, tropical storms, and wind-driven tides.

The near-surface saturated materials are typically silty sands and assuming the hydraulic conductivity of the silty sands is on the order of 0.0001 to 0.001 centimeters per second (cm/s)

and 25 percent porosity, groundwater flows to the northeast at about 10 feet per year. There is no indication that a significant vertical gradient at the south end of the ILF is present between OWS-02 and OWD-01, previously identified in error (Delta, 1996).

Closed Industrial Landfill

The leachate collection ditch (sample site LC-01) and the wells in the vicinity of the ILF (OWS-01, OWS-02, and background well OWS-03) have been sampled in February and August since 1989. Well OWS-01 is the background well for the ILF. No wells have been installed at the downgradient compliance boundary (500 feet from the ILF) or the review boundary (250 feet from the ILF). Swift Creek is about 200 to 800 feet east of the ILF and is within the review boundary and compliance boundary.

The monitoring system was originally designed so that OWS-01would be the background well, OWS-02, OWS-03, and OWD-01 would be downgradient wells, and the leachate collection ditch would monitor groundwater quality along the northeast, east, and southeast sides of the ILF (S&ME, 1987) and these sample sites were approved by the North Carolina Division of Health Services in 1989. The groundwater flow data at the ILF indicates that groundwater flow is to the east; therefore, monitoring wells OWS-02, OWS-03, and OWD-01 are upgradient of the ILF and the leachate collection ditch sample site is the best indicator of potential impacts to groundwater quality from the ILF.

Since 2007, groundwater chemistry has been relatively stable and a few analyses have exceeded the state Class GA groundwater standards (most of the pH analyses from OWS-01 and all of the pH analyses from OWS-03 were less than pH 6.5). Some concentrations of cobalt and vanadium have been above the Groundwater Protection (GWP) standards. Many analyses of the monitored parameters have been below detection limits.

The closest downgradient receptor to groundwater or leachate flow from the ILF is Swift Creek. None of the ILF leachate or well pH analyses was outside of the Class SC-Sw (tidal salt water - swamp water) standards for pH (4.3 to 8.5 units). Some samples from the leachate and wells that were analyzed for copper, nickel, and silver had estimated concentrations above the Class SC standard.

Overall, the concentrations of parameters measured in leachate, groundwater, and Swift Creek samples have been similar, except for pH and specific conductance (SC). The leachate pH and SC are higher than the ILF groundwater and Swift Creek. Copper concentrations in Swift Creek also exceeded the Class SC action limit standard of 0.003 mg/L in over 25 percent of the samples and the maximum copper concentration (0.038 mg/L) was greater than the maximum concentration determined in the leachate since 2007 (0.0057 mg/L).

Residual Surface Disposal System

Wells in the vicinity of the RSDS (L-01 to L-04) were sampled in 2001 prior to operation of the RSDS. Sampling in March, July, and November of each year began in 2003, the year operations of the RSDS began. Well L-02 is the background (upgradient) well for the RSDS. No wells have been installed at the downgradient compliance boundary (250 feet from the RSDS) or the

review boundary (125 feet from the RSDS). Swift Creek is present about 1000 feet east of the RSDS and is outside both the review boundary and compliance boundary.

Groundwater samples are collected each March, July, and November for parameters specified in the Surface Disposal Permit. No concentrations of phenolic or volatile organic compounds have been above reporting limits. The upgradient well (L-02) TOC concentration has been between 9.97 and 57.4 mg/L, with a median TOC concentration of 24.9 mg/L. This is above the 10 mg/L criteria for the evaluation of downgradient wells; therefore, these concentrations represent naturally occurring TOC and downgradient well TOC concentrations are almost always lower than the background concentration.

With the exception of pH, ammonia, and sulfate, none of the other monitored parameters have exceeded their respective groundwater standards. The groundwater pH has been below the 2L lower limit of 6.5 units but within the Class SW range of 4.3 to 8.3. There is no indication that the placement of residuals in the RSDS has impacted groundwater pH, which would be shown by an increase in the groundwater pH caused by release of alkaline leachate to the groundwater.

Ammonia and sulfate have exceeded the 2L groundwater standard at L-04. The concentrations of ammonia in L-04 have been higher than the background well and have exceeded the 2L groundwater standard of 1.5 mg/L in July 2008 (1.8 mg/L), July 2010 (1.5 mg/L), and March and July 2011 (1.51 and 1.65 mg/L, respectively). This well is outside of the flow path from Cell A of the landfill and since recent leachate analyses had less than 0.1 mg/L of ammonia or nitrate, the ammonia concentration in L-04 is probably not related to the RSDS. Sulfate concentrations in L-04 reached a maximum of 382 mg/L in July 2010; this is the only time sulfate has been above 125 mg/L in this well and the sulfate concentration decreased to 31.6 mg/L in July 2011. The July 2010 sulfate concentration appears to be a data outlier.

TABLE OF CONTENTS

EXECUTIVE SUMMARY i
LIST OF TABLES AND FIGURES vi
LIST OF ACRONYMS vii

1.0 INTRODUCTION 1
1.1 Industrial Landfill 1
1.2 Residuals Surface Disposal System 2
1.3 Swift Creek 3

2.0 GROUNDWATER MONITORING 6
2.1 Groundwater Elevation at the ILF and RSDS 6
2.2 Groundwater Elevation Data Quality 7
2.3 Data Management 8
2.3.1 Data Qualifiers 9
2.3.2 Data Analysis Methods 9

3.0 CLOSED INDUSTRIAL LANDFILL WELL AND LEACHATE COLLECTION DITCH CHEMISTRY DATA 11
3.1 General Chemistry Parameters 11
3.2 Metals Analyses 12
3.3 Volatile Organic Compounds: 17

4.0 RSDS CHEMISTRY DATA 18
4.1 Leachate Characteristics 18
4.2 Groundwater Monitoring 18
4.2.1 RSDS Field Data 18
4.2.2 RSDS Well Laboratory Chemistry Data 18
4.2.3 Indicator Parameters and Metals 19
4.2.4 Phenolic Compounds 21
4.2.5 Volatile Organic Compounds 22

5.0 DISCUSSION 23
5.1 Closed Industrial Landfill 23
5.2 Residual Surface Disposal System 25

6.0 CONCLUSIONS 28
6.1 Groundwater and Surface Water Flow Regime 28
6.2 Closed Industrial Landfill 28
6.3 Residual Surface Disposal System 29

7.0 REFERENCES 31

TABLES

FIGURES

APPENDICES

A – Well Logs and Groundwater Elevation Data

B – Swift Creek Data

C – ILF Water Quality Data
D – ILF Time-Trend Plots
E – RSDS Field and Laboratory Chemistry Data
F – RSDS Time-Trend Plots
G – Box Plots
H – Laboratory Reports (on CD)

DISTRIBUTION

LIST OF TABLES

Table 1	Well Completion Data
Table 2	Swift Creek Chemistry Data Summary
Table 3	Survey Data, March 2011
Table 4	Changes in Ground Surface and Casing Elevation from 1989 to 2011
Table 5	Laboratory Analysis Notes
Table 6	ILF Post-Closure Chemistry Data Summary
Table 7	RSDS Chemistry Data Summary

LIST OF FIGURES

Figure 1	Vicinity Map
Figure 2	Mill Property Map
Figure 3	RSDS, ILF, and Monitoring Well Locations
Figure 4	Swift Creek Hydrograph and Discharge and Precipitation at New Bern
Figure 5	Floodwaters on October 5, 2010 Near Well L-04
Figure 6	Floodwaters on October 5, 2010 Near Sample Site LC-01
Figure 7	Swift Creek Specific Conductance and Discharge
Figure 8	Hydrograph
Figure 9	Groundwater Elevation Map, Summer 2008
Figure 10	Groundwater Elevation Map, Winter 2010
Figure 11	Box Plot Explanation

LIST OF ACRONYMS

15 NCAC	Title 15A of the North Carolina Administrative Code
°C	Degrees Celsius
µg/L	Micrograms per liter
µmho/cm	Micromhos per centimeter
µS/cm	Microsiemens per centimeter
as N	As nitrogen
BOD	Biochemical oxygen demand
cfs	Cubic feet per second
COD	Chemical oxygen demand
DO	Dissolved oxygen
DWM	Division of Waste Management
DWQ	Division of Water Quality
GC/MS	Gas chromatography/mass spectroscopy
GWP	Groundwater Protection Standards
ILF	Industrial Landfill
IMAC	Interim Maximum Allowable Concentration
IQR	Interquartile range
MDL	Method detection limit
mg/L	Milligrams per liter
NAD83	North American Datum of 1983
NCAC	North Carolina Administrative Code
NCDENR	North Carolina Department of Environment and Natural Resources
NGVD29	National Geodetic Vertical Datum of 1929
NTU	Nephelometric turbidity units
PES	PES Environmental, Inc.
PQL	Practical quantitation limit
RSDS	Residuals Surface Disposal Site
SC	Specific conductance
SVOC	Semivolatile organic chemical
SWDS	Secondary Drinking Water Standards
SWL	Static water level
SWS	Solid Waste Section
SWSL	Solid Waste Section Limit
TDS	Total dissolved solids
TOC	Total organic carbon
TOX	Total organic halogens
USGS	U.S. Geological Survey
VOC	Volatile organic chemical
Weyerhaeuser	Weyerhaeuser NR Company

1.0 INTRODUCTION

This report describes the groundwater conditions in the vicinity of the operating Residuals Surface Disposal Site (RSDS) and the closed Industrial Landfill (ILF) at Weyerhaeuser NR Company's (Weyerhaeuser) New Bern Cellulose Fiber Mill (Mill) in New Bern, North Carolina. The Mill is approximately 7 miles north of New Bern and 7 miles south of Vanceboro and is adjacent to the Neuse River (Figure 1). Swift Creek is a tributary to the Neuse River that discharges to the Neuse River on Weyerhaeuser property. The ILF and RSDS are within the Swift Creek drainage basin and Swift Creek is the closest receptor to groundwater that flows from the ILF and RSDS (Figure 2).

PES Environmental, Inc. (PES) has prepared the report from historical and recent groundwater, surface water, and leachate monitoring data collected by others. Collection of groundwater monitoring data began at the ILF in 1989. The initial groundwater samples from the RSDS wells were obtained in 2001 and the groundwater monitoring program at the RSDS began in March, 2003. Field water-level measurements in the monitoring wells, field water-quality measurements, and groundwater sample collection was performed by Environment 1, Inc. of Greenville, North Carolina.

As part of this project, the locations and elevations of the Mill wells were resurveyed to facilitate comparison with off-site data points (Table 1). This survey included determining the locations of the wells and some of the Mill bench marks in North Carolina State Plane coordinates using the North American Datum of 1983 (NAD83), the local Mill coordinates, and latitude and longitude. NAD83 is used as the horizontal datum in this report and compass directions are relative to north in NAD83. The Mill coordinate system is not used in this report; it is an arbitrary system and Mill north is approximately 28.5 degrees east of true north.

The elevation datum in use at the Mill is the National Geodetic Vertical Datum of 1929 (NGVD29). All elevations referenced in this report are in feet relative to NGVD29. All depths are in feet below the local ground surface.

1.1 Industrial Landfill

The ILF was in operation from 1969 to the end of December 2002 and was constructed on approximately 30 acres of low-lying land east of the Mill (Figure 2). The unlined landfill received non-hazardous materials including waste pulp fiber, non-metallic scrap material, and lime sludge from the Mill. The landfill was capped in 2004. The cap consists of fiber residual material from the Mill and former Weyerhaeuser Plymouth mill, residual lime materials, and soils. The cap extends from a perimeter elevation of approximately 5 feet to a maximum elevation of about 40 feet; most of the capped area is above the 25-foot elevation.

The post-closure period began on November 11, 2004. Post-closure groundwater monitoring at the ILF is conducted under North Carolina Department of Environment and Natural Resources (NCDENR) Division of Waste Management (DWM) Permit 25-02. Conditions for closure of the ILF were specified in a February 15, 2005 letter from the DWM Solid Waste Section (SWS) to Weyerhaeuser (NCDENR, 2005). These conditions included semi-annual sampling of the monitoring wells and leachate collection system for a minimum of five years following the

closure date (November 11, 2004). The monitoring program may be discontinued after review of the monitoring data by the SWS.

Water quality monitoring at the ILF is performed twice per year using a system of three shallow wells (OWS-01, OWS-02, and OWS-03) and a deeper well (OWD-01) installed in June 1989 at locations shown on Figure 3. Well completion information is included in Table 1 and well logs are in Appendix A.

Samples are also collected from the leachate collection ditch that borders the north, east, and south side of the ILF. The leachate collection ditch was designed to intercept groundwater and leachate flow from the landfill. The base of the leachate collection ditch is below the water table based on an elevation of 2 feet from a 2000 drawing and ditch cleanout/deepening activities in early 2011 that resulted in a current ditch-bottom elevation of approximately -5 feet (Steve DiPiero, personal communication, March 30, 2012). The ditch also contains water during the driest months of the year when no discharge to the ditch from the RSDS leachate collection system or surface runoff is occurring. A pump with a capacity of approximately 30,000 gallons per day is used to withdraw water from the ditch to maintain a constant water level in the ditch. The elevation of the bottom of the leachate collection ditch is below that of groundwater in OWS-02, OWS-03, and OWD-01; therefore, the ditch intercepts groundwater and leachate flow from beneath the ILF. Water in the ditch is sampled at a point near monitoring wells OWS-02 and OWD-01; the sample site designation is LC-01. The leachate ditch water, which may also contain leachate from the RSDS and stormwater, is pumped into the Mill's wastewater treatment system for treatment.

The compliance boundary is 500 feet from the landfill boundary as defined in Title 15A of the North Carolina Administrative Code, Subchapter 2L (15A NCAC 02L), Section .0107, Classifications and Water Quality Standards Applicable to the Groundwaters of North Carolina. No wells have been installed at the downgradient compliance boundary or the review boundary (250 feet from the ILF) because the area between the landfill and Swift Creek is a swamp forest that floods frequently and access is limited. The review and compliance boundary locations are shown on Figure 3.

1.2 Residuals Surface Disposal System

The RSDS consists of two above-grade lined surface impoundments north of the ILF. The impoundments were constructed in the mid-1990s and operation as a surface disposal site began in January 2003. The RSDS operates under Permit WQ00004084 issued by the Division of Water Quality (DWQ). Process residuals from the Mill are placed in the 9-acre northern cell (Cell A) of the RSDS (Figure 3). The 9-acre Cell B south of and adjacent to Cell A has not been used for residuals disposal but has accumulated wind-blown sediments since it was constructed. The two cells are surrounded and divided by berms at elevation of 17 to 18 feet and the cell bottoms are at the 5- to 6-foot elevation. Leachate and stormwater from Cell A flows into Cell B, where it mixes with additional non-contact stormwater, and discharges at a valve-controlled point near the southwest corner of Cell B. The leachate flows via pipeline to the north end of the ILF leachate collection ditch. A third cell, Cell C, was planned for construction adjacent to the southeast side of Cell B, but this cell was not constructed.

The RSDS is approximately 1,000 feet southwest of Swift Creek and the Neuse River is approximately 4,500 feet southwest of the RSDS. No water-supply source is within 100 feet of the RSDS and the closest Mill property boundary is more than 2,000 feet northeast of the RSDS (Figure 2).

Groundwater quality monitoring is performed in March, July, and November using a system of four monitoring wells (L-01, L-02, L-03, and L-04) adjacent to Cell A and Cell B of the RSDS (Table 1 and Appendix A). Monitoring well L-02, on the northwest side of the site, is the background and upgradient well. Downgradient wells (L-01, L-03, and L-04) have been installed east of the landfill.

Permit WQ00004084 specifies the locations of the compliance and review boundaries around the RSDS at 250 feet and 125 feet from the RSDS boundary, respectively. No wells have been installed at the downgradient compliance boundary (250 feet from the RSDS) or the review boundary (125 feet from the RSDS) because the area between the landfill and Swift Creek is a swamp forest that floods frequently (Figure 3). Samples of leachate from the RSDS were collected in November 2010 and March 2011 from the discharge point of the leachate pipeline from the RSDS. This sample site is identified as RSDS-LC01 in Figure 3.

1.3 Swift Creek

Swift Creek is east of the Neuse River, ILF, and RSDS on the Mill site. Swift Creek flows in a meandering channel bordered by swamp forest land through the Weyerhaeuser property from Highway 43 to its mouth at the Neuse River (Figure 2). Except where cut by roads and developed Mill property, the ground surface elevation adjacent to Swift Creek is about 3 to 5 feet and the area between the Swift Creek channel and the ILF and RSDS is often flooded.

Swift Creek is within Neuse River Subbasin 03-04-09 and drains an area of approximately 330 square miles (NCDENR, 2002). From its mouth at the Neuse River just downstream of the Mill's wastewater treatment system outfall, through the Mill property, and to Clayroot Swamp near Vanceboro (22.4 miles), Swift Creek is classified as an impaired stream which has been designated as Class SC, Sw, NSW in 15A NCAC, Subchapter 2B (15A NCAC 02B):

> **Class SC** (15A NCAC 02B, Section .0220): All tidal salt waters protected for activities involving minimal skin contact (e.g., fishing and boating); fish and noncommercial shellfish consumption; aquatic life propagation and survival; and wildlife.
>
> **Swamp Waters (Sw)** (15A NCAC 02B, Section .0101): Supplemental classification intended to recognize those waters which have low velocities and other natural characteristics that are different from adjacent streams, such as low dissolved oxygen (DO) and low pH.
>
> **Nutrient Sensitive Waters (NSW)** (15A NCAC 02B, Section .0223): Supplemental classification intended for waters needing additional nutrient management because of excessive growth of microscopic or macroscopic vegetation.

Discharge measurements, stream stage, and water quality measurements have been made at two gaging stations upstream and downstream of the Mill (Figure 2) operated by the U.S. Geological Survey (USGS) and DWQ. The upstream station is located on the bridge over Swift Creek on

Highway 43, about one-half mile north of the RSDS. The downstream station near Askin is about two miles south-southeast of the ILF, is about 1.5 stream miles below the confluence of Little Swift Creek and Swift Creek, and is approximately 1.2 stream miles from the mouth of Swift Creek at its intersection with the Neuse River. Appendix B contains data obtained from these stations and precipitation data from the New Bern airport. The locations of the two gaging stations are given below:

Description	DWQ Station Number	USGS Station Number	Latitude	Longitude
Swift Creek at Highway 43 near Streets Ferry	J8230000	209205053	N 35°13'51" (35.23104°)	W 77°06'50" (-77.11388°)
Swift Creek at Mouth near Askin	J8210000	2092084	N 35°11'34" (35.19278°)	W 77°05'23" (-77.08984°)

The Highway 43 station recorded Swift Creek discharge from June 1996 to June 2008 (http://waterdata.usgs.gov/usa/nwis/uv?site_no=0209205053). The mean discharge over this period of record was 315 cubic feet per second (cfs), with mean daily maximum discharge of 1540 cfs. Swift Creek is strongly influenced by wind tides driven by inland low-pressure systems which have caused flow reversal in the creek and the mean minimum daily discharge rate was -112 cfs. The maximum daily reversed flow was -5,140 cfs on August 30, 1999. Hurricanes and winter storms also influence the flow of Swift Creek. The maximum discharge of 10,900 cfs was caused by runoff from Hurricane Floyd (September 21, 1999).

The daily mean stream elevation (gage height) from 1996 to 2008 was 1.5 feet with a daily mean range between 1.4 and 3.4 feet. The high water mark from Hurricane Floyd equaled a gage height of 12.28 feet. Both stream stations are reported by the USGS to have gage height datum equal to NGVD29.

Swift Creek gage height and discharge measurements from 2001 through 2011 (Table B-1), precipitation data from New Bern (Table B-2), and storm events recorded by the North Carolina Climatological Office are shown on Figure 4. It is not uncommon for the maximum stage (gage height) of Swift Creek to reach or exceed the four-foot elevation at Highway 43, which is the minimum flood-stage elevation. A number thunderstorms, tropical storms, and hurricanes have caused the stream stage to exceed 6 feet, the moderate flood stage elevation, which is above the ground surface elevation at monitoring wells L-02, L-04, and OWS-01. The highest recent stage measurements were associated with Tropical Storm Nicole from September 30 to October 7, 2010 when the mean gage height exceeded 4 feet and the maximum gage height was 8.96 feet on October 2 and 3. The Mill was impacted by the flooding from Tropical Storm Nicole and Figures 5 and 6 show the floodwaters on October 5, 2010 in the vicinity of L-04 and at the leachate pump (sample site LC-01). Hurricane Irene resulted in a 5-foot or higher gage height from August 27 to September 3, 2011; the gage height exceeded 6 feet on August 27, August 31, and September 1

From 1997 through 2007, the DWQ sampled Swift Creek at Highway 43 and at Askin. Samples were analyzed for field parameters (temperature, pH, specific conductance [SC], dissolved oxygen [DO], turbidity), hardness as calcium carbonate ($CaCO_3$), ammonia as nitrogen (as N),

nitrate plus nitrite (as N), biochemical oxygen demand (BOD), and metals. Table B-3 provides data from analyses obtained from the U.S. EPA STORET database in October 2011. Figures B-1 to B-20 are time-trend plots of the STORET data.

The Swift Creek water samples were not analyzed for some of the parameters that are monitored in the ILF and RSDS water (sulfate, antimony, barium, beryllium, cobalt, selenium, silver, thallium, and vanadium). Note that SC is the electrical conductivity of water referenced to 25 degrees Celsius (°C) in System International units of microsiemens per centimeter (µS/cm), which is equivalent to micromhos per centimeter (µmho/cm) formerly used as the units for SC.

The Swift Creek water-quality data show that under low-flow conditions, a layer of fresh water moving downstream overlies saline water moving upstream. Table B-3 lists the SC data and measurement depth indicating the presence of the concentration gradient. Figure 7 shows time periods when the SC of Swift Creek at Askin and Highway 43 exceeded a few hundred µS/cm in the summer to fall months of 2001, 2002, 2005, 2006, and 2007. The maximum SC of the saline water beneath the relatively fresh water at these times has reached over 10,000 µS/cm, as shown in the inset in Figure 7. This two-layer estuarine flow system is typical of the Neuse River and Swift Creek in the vicinity of the Weyerhaeuser Mill (Huffman, 1988).

Samples collected by DWQ from Swift Creek were generally within concentrations specified in the Surface Water Standards (15A NCAC 02B) for pH and turbidity. Table 2 summarizes the Swift Creek data included in Table B-3. The median pH of Swift Creek was 6.5 units upstream of the RSDS/Landfill area and 6.7 units before entering the Neuse River, and the median turbidity was about 5.5 nephelometric turbidity units (NTU). Dissolved oxygen in Swift Creek is relatively low and DO concentrations are frequently less than the 5 mg/L criteria for Class SC waters; the 10-year upstream and downstream median concentrations were 4.4 and 5.7 mg/L, respectively. The low dissolved oxygen concentrations reflect “natural conditions in a swamp stream” (NCDENR, 2001, p. 20).

Arsenic, cadmium, chromium, lead, mercury, and nickel concentrations were below reporting limits. Median aluminum, copper, and zinc concentrations were 0.38, 0.002 (with 54 percent of analyses below reporting limits), and 0.01 mg/L (with 57 percent below reporting limits), respectively.

No information related to water quality or flow from Little Swift Creek to Swift Creek was available. Therefore, its contribution to the differences in water quality between the two gaging stations is unknown.

2.0 GROUNDWATER MONITORING

Table 1 lists the well completion data for wells at the ILF and RSDS. Well locations are shown in Figure 3. Four wells were installed in the vicinity of the ILF (OWD-01, OWS-01, OWS-02, and OWS-03) and four additional wells (L-01 through L-04) were installed around the perimeter of the residual surface disposal system (RSDS) in 1989. These wells are still in use for monitoring. Logs of monitoring wells are included in Appendix A.

OWS-01, L-01, L-02, and L-03 were completed with ten feet of screen at depths of 1.5 to 11.5 feet. The screened interval of OWS-02 and L-04 is 2.5 to 12.5 feet and OWS-03 was screened from 4 to 14 feet. The elevation of the bottom of the screened intervals for the shallow wells varies between -1.4 and -6.8 feet. The elevations of the bottom of the screened interval at L-03 and OWS-02 are -1.4 and -1.8 feet, respectively. The bottom of the screened interval for the remaining shallow wells is between elevations of -3.7 to -6.8 feet. Well OWD-01 is completed with 5 feet of screen between depths of 19.5 and 24.5 feet (elevation of -8.6 to -13.6 feet).

The wells are completed in silty fine to medium sand; some medium to coarse sand was encountered in the bottom of the screened zones in the RSDS wells. These materials are representative of the regional shallow aquifer (Lautier, 2001; Tesoriero and others, 2005). OWD-01 was installed adjacent to OWS-02 and the deeper well was completed with five feet of screen between depths of 19.5 and 24.5 feet in what is described in the well log as “slightly silty to medium sand.”

Table 1 includes the updated location and elevation data for the above eight wells based on a March 2011 survey. This survey included determining the locations of the wells and some of the Mill bench marks in North Carolina State Plane coordinates using NAD83, the local Mill coordinates, and latitude and longitude (Table 3).

All of the monitoring wells at the ILF and RSDS have been completed to a depth of less than about 15 feet, with the exception of OWD-01. None of these wells appear to extend into the Castle Hayne Limestone, which underlies the surficial aquifer and is the regional water-supply aquifer.

2.1 Groundwater Elevation at the ILF and RSDS

Well locations and elevations were surveyed following installation of the wells in 1989 and were resurveyed in 2011 (Table 1). Ground surface elevations did not change significantly between the two survey dates (Table 4). The well measuring point elevations (top of casing elevations) for most of the wells did not change by more than 0.2 foot, except for OWD-01 (the latter elevation is 0.68 foot higher than the 1989 measurement) and OWS-03 (the 2011 top of casing elevation is 0.56 foot lower than the 1989 measurement).

The elevation data from the 2011 survey was used to establish the measuring point elevations used to determine groundwater elevations at each well, and was applied to static water level data collected since 2001 (Table A-1). This arbitrary date was chosen because the RSDS wells were initially sampled in May 2001.

Groundwater elevation data were plotted for the 8 wells (Figure 8) and the trends in the hydrographs were examined. The groundwater elevation data indicate ILF well OWS-03 is upgradient of the closed landfill site and downgradient from the chip pile area; the groundwater elevation in this well is consistently above the elevations in the other ILF and RSDS wells. Well OWS-01 is the background well for the ILF and there are no Mill facilities within approximately 750 feet of this well. Well L-02 is the upgradient well for the RSDS and it is approximately 250 feet to the closest upgradient Mill facilities.

Figures 9 and 10 show the typical groundwater flow conditions in summer and winter. The groundwater contours in these figures should be considered approximate because the ILF and RSDS well data were not obtained on the same day. Figure 9, based on the summer 2010 data, indicates groundwater flow towards Swift Creek at a gradient of about 0.0015. Figure 10 shows the groundwater gradient of approximately 0.003 toward Swift Creek in the 2011 winter. Given that the wells are completed in silty sand to coarse sand, the estimated permeability of the screened zones may be between about 10^{-4} and 10^{-2} centimeters per second (cm/s). Assuming the porosity of the sand is about 20 percent, groundwater flows towards Swift Creek at rates of less than 1 foot per year in the silty sediments to approximately 150 feet per year in sandy sediments. The actual flow velocity is most likely on the order of 10 feet per year, which is the geometric mean of the groundwater flow rates calculated using the range of permeabilities and gradients above.

2.2 Groundwater Elevation Data Quality

A few groundwater elevation data did not seem consistent and pointed to transposition of static water level (SWL) data on the Environment 1 reports, errors in field measurements, or data transcription errors. Table A-1 lists the questionable data and corrections that were made to the data table. The corrected water level data are included in Appendix A and were used to prepare Figures 9 and 10.

There appears to have been a systematic error in the RSDS well water-level measurement in July 2006, as the groundwater elevations are all significantly lower than any other time. A similar error occurred at L-04 in March 2007. Precipitation data do not indicate a drought in the months prior to this set of measurements, and it was not possible to apply a correction to these measurements.

In addition to the above questionable data points, an error in the 1989 top-of-casing elevation led to the 1996 determination that a downward hydraulic gradient was present between wells OWS-02 and OWD-01 (Delta, 1996). Groundwater elevation data from 1989 to 2000 showed a consistent difference of about 0.7 foot between the two wells, and indicated a significant downward gradient from the shallow to the deep well (i.e., either groundwater flows straight down in the vicinity of the two wells or water is perched at OWS-02). The 0.7 foot elevation difference between the two wells was approximately equal to the 0.83 elevation difference between the 1989 surveyed top of casing elevations for the two wells (13.26 feet at OWS-02 and 12.43 feet at OWD-01). The wells are less than seven feet apart and the well logs do not indicate the presence of a low-permeability unit between the screened zones of the wells. The logs also show the two wells were constructed with the top of casing about 2.3 feet above the ground

surface; the top of casing in OWS-02 was not nearly a foot higher than the 1989 surveyed top of casing in OWD-01.

The March 2011 surveyed top-of-casing elevation for both wells was 13.11 feet, which is close to the 1989 OWS-02 top-of-casing elevation. Using the 2011 top of casing elevations for the two wells, calculated groundwater elevations from 2001 to 2011 for the two wells generally agree within 0.05 foot. There is no evidence of a significant downward hydraulic gradient, but is good evidence that the previous survey was in error.

2.3 Data Management

Data from the Mill's monitoring wells from 1986 through 1995 from including wells OWD-01, OWS-01 to OWS-03, the ILF leachate collection ditch (LC-01), production well chemistry data, and some surface water samples had been entered into the GIS\Key environmental data management system (GIS Solutions, Inc., Walnut Creek, CA) in the 1990s by Weyerhaeuser's Environmental Sciences and Technology group in Federal Way and by Delta Environmental (now Antea Group) of Charlotte, North Carolina. The chemistry data records used to prepare the Delta (1996) report and were not verified during the current project.

Field water-level measurements; field pH, SC, and temperature data; and laboratory analysis data from the Weyerhaeuser Mill samples collected from 1997 to 2011 was stored in spreadsheets and laboratory reports were available for most of these samples. These data included two samples of leachate from the RSDS collected at a sump outside of RSDS Cell B (the RSDS-LC01 sample point). The available field data sheets from Environment 1 and laboratory reports were supplied by Weyerhaeuser to PES and were used to verify or correct the spreadsheet values, used for input to the database, and used to add data qualifiers, laboratory methods, and detection limit information to the GIS\Key database.

Data from Swift Creek identified in Section 1.3 was obtained from on-line databases operated by the USGS and EPA and added to the GIS\Key project database.

The information in the project database was used to generate the figures and tables used in this report. Appendices to this report include:

Appendix A:	Well logs and groundwater elevation data.
Appendix B:	Swift Creek discharge and stage (gage height) measurements from the USGS, precipitation data from the CRONOS Database operated by the State Climate Office Of North Carolina, and water quality from STORET.
Appendix C:	Chemistry data from the ILF.
Appendix D:	Time-trend plots of chemistry data from 1989 to 2011 from the ILF.
Appendix E:	Chemistry data from the RSDS.
Appendix F:	Time-trend plots of chemistry data from 2001 to 2011 from the RSDS.
Appendix G:	Notched-box-and-whisker plots of currently required monitoring parameters for the ILF and RSDS.

Appendix H: Laboratory reports used to update the project database are included on a CD placed in this appendix.

2.3.1 Data Qualifiers

Table 5 identifies laboratory chemistry analyses that were identified as questionable and actions taken during the data entry and validation process. Data quality flags used in chemical result tables in Appendices B, C, and E include:

- B Parameter detected in sample and in method blank or other quality assurance/quality control sample.
- D Organic constituent identified in a diluted sample.
- J Estimated concentration is between method detection limit (MDL) and practical quantitation limit (PQL) or Solid Waste Section Limit (SWSL).
- L Estimated concentration is less than PQL/SWSL and is between MDL and 10 times MDL. Concentration is of higher uncertainty than a value flagged with just a “J”; flag is used with “J” qualifier. Added to data after input to database.
- R Analysis rejected on review because it is an extreme outlier or other error.
- U Parameter undetected at concentration equal to or less than MDL (used with “<”).
- + Reported concentration is above upper limit of laboratory analysis or limit of linearity (replaces “>” used in laboratory report).
- < Parameter undetected at concentration equal to or less than PQL or SWSL.

Analyses that exceed standards listed in the tables are shown in brackets [ ]. The standards included the Class SC and Sw surface water standards, the January 1, 2010 15A NCAC Subchapter 02L, Section .0202 groundwater standards for Class GA groundwater, the August 1, 2010 15A NCAC 02L .0202 Interim Maximum Allowable Concentration (IMAC) limits for groundwater, and the Solid Waste Section Groundwater Protection Standards (GWP) updated June 13, 2011.

2.3.2 Data Analysis Methods

PES analyzed the chemistry data using statistical summaries, time-series plots, and notched box-and-whisker plots. The statistical summaries and plots are contained in the appendices.

Time-trend plots for Swift Creek, the ILF, and RSDS are included in Appendices B, D, and F, respectively. In these plots, data points for non-detect values (below the PQL or SWSL) are reduced in size and plotted as gray symbols with no background color, and short-dashed lines lead to the data point plotted at the detection-limit value. Estimated concentrations (J-flagged values) are shown by full-sized symbols with gray backgrounds and the line leading to the estimated value is plotted with a dash-dot-dot line pattern.

Appendix G includes a set of box plots showing similarities and differences in the concentrations of the parameters between the sample sites. Box plots provide for a non-parametric visual and statistical comparison of the data. The features of the box plots are described below:

The boxes are drawn with horizontal lines at the 75th percentile (top), at the median (50th percentile), and 25th percentile (bottom). The interquartile range (IQR) is the 75th percentile minus the 25th percentile. The upper and lower lines are about ±1 standard deviation (these values are 16 and 84 percent for normal distributions). The whiskers (vertical lines) are drawn up and down from the quartiles, with the upper whisker terminating at the largest data value within the 75th percentile + 1.5IQR and lower whisker terminating at the smallest value within 25th percentile - 1.5IQR. The number of analyses in each data set is shown above and to the left of each box and data points are shown by orange bars on the center axis of each box.

Data outliers are shown as squares above and beneath the whiskers, plotted at >75th percentile + 1.5IQR or <25th percentile - 1.5IQR. Data far outliers (diamonds) are plotted at >75th percentile + 3IQR or <25th percentile - 3IQR.

The notches (indentations) in the boxes provide for a non-parametric statistical analysis of the data. The notches are drawn from the median to the upper and lower confidence interval about the median at the 5% significance level. Two medians are significantly different if the notches do not overlap. The notches should be symmetrical about the median in an arithmetic plot and may extend beyond the data end points in small data sets. If the lower notch value is <0, this value has been assigned to 10^{-15} when the using a log axis for y values (concentrations).

The lines originating near zero on the x axis and coming out from the y axis show the maximum, median, and minimum of the detection limit (the long line is the median); the number near those lines is the number of non-detects for the whole data set (if no line and numbers, then no values were below the detection limit).

Figure 11 shows the components of the box plots.

3.0 CLOSED INDUSTRIAL LANDFILL WELL AND LEACHATE COLLECTION DITCH CHEMISTRY DATA

The leachate collection ditch (sample site LC-01) and the wells in the vicinity of the ILF (OWS-01, OWS-02, and OWS-03) have been sampled since 1989 to monitor the site for impacts to local groundwater. Samples have been collected in February and August each year since 1993 (Appendix C). Field pH, SC, and temperature measurements were made at the time of sample collection.

Groundwater monitoring began in 1989 as required by the ILF's permit using the monitoring plan prepared by S&ME (1987) and modified by the Solid Waste Section in 1989. Parameters that have been analyzed in all samples since 1989 include sulfate, arsenic, barium, cadmium, chromium, copper, lead, selenium, silver, and zinc. The original set of required parameters also included total dissolved solids (TDS), nitrate (as N), chloride, fluoride, BOD, chemical oxygen demand (COD), total organic halogens (TOX), total organic carbon (TOC), iron, manganese, and mercury. Delta (1996) presented an analysis of the results of groundwater monitoring using these parameters.

The list of required parameters was changed by the Solid Waste Section in October 2001. The revised list of required parameters included pH, temperature, SC, sulfate, methylene chloride (dichloromethane) and metals at the following PQLs (in parentheses): antimony (0.030 mg/L), arsenic (0.010 mg/L), barium (0.500 mg/L), beryllium (0.002 mg/L), cadmium (0.001 mg/L), chromium (0.010 mg/L), cobalt (0.010 mg/L), copper (0.200 mg/L), lead (0.010 mg/L), nickel (0.050 mg/L), selenium (0.020 mg/L), silver (0.010 mg/L), thallium (0.010 mg/L), vanadium (0.040 mg/L) and zinc (0.050 mg/L). Analysis of these metals began in 2002 and through February 2007, the samples were analyzed in accordance with the October 2001 requirements, which included using these PQLs as the reporting limit. All analyses below the PQL were reported as less than ("<") the PQL. Environment 1 did not report estimated metals concentrations below the PQL.

The SWS modified its analysis and reporting requirements in a memorandum dated February 13, 2007. Beginning in October 2007, metals analyses are reported with a J (estimated) qualifier if the parameter concentration is between the lab's MDL and the SWSL, with the latter defined as "the lowest amount of analyte in a sample that can be quantitatively determined with suitable precision and accuracy," which has replaced the PQL. SWSL values that are less than the previous PQL include antimony (0.006 mg/L), barium (0.100 mg/L), beryllium (0.001 mg/L), copper (0.010 mg/L), selenium (0.010 mg/L), thallium (0.0055 mg/L), vanadium (0.025 mg/L) and zinc (0.010 mg/L). Concentrations of parameters that are below the MDL are reported with a "U" (non-detect) qualifier and the MDL value.

3.1 General Chemistry Parameters

Table C-1 lists the results for field groundwater parameters and laboratory analyses of the parameters discussed above for the leachate collection ditch (sample site LC-01) and the monitoring wells (OWS-01, OWS-02, and background well OWS-03) in the vicinity of the ILF. The results for the parameters that have been analyzed since 2002 are described below and summarized in Table 6:

Temperature: The temperature of water in the leachate collection ditch is controlled by air temperature and the leachate collection ditch water temperatures are approximately equal to the mean monthly air temperature. Water temperature in the shallow wells falls within the range of temperatures seen in the leachate collection ditch sample, and these temperatures (about 13 to 25°C) are similar to seasonal mean air temperatures. The water temperature in OWD-01 falls within a narrower range (16 to 20 °C) than the shallow wells, which is expected in a slightly deeper flow system.

pH: The leachate collection ditch has the highest median pH (7.95), OWS-02 and OWD-01 have median pH of 6.70, and OWS-01 and OWS-03 have median pH of 6.3. None of the pH values exceeded the federal Secondary Drinking Water Standards (SWDS) or Class GA upper limit of 8.5, but 40 percent of the samples were below the lower Class GA and federal SWDS limit of 6.5. None of the samples were below the Class SC tidal salt water pH standard of 4.3.

Prior to the placement of the cap on the landfill, the pH showed significant seasonal variations. Beginning in 2005, these seasonal variations have been minimal and the pH in the leachate collection ditch has decreased from about 8 to about 7 since 2004. The pH in the leachate collection ditch is significantly above the pH in the groundwater samples. The pH values in the wells have been relatively stable since 2005. The pH of OWS-01 and OWS-03 are similar and statistically lower than the pH of OWD-01 and OWS-02.

Specific conductance (SC): The median SC of the leachate collection ditch (1620 µS/cm) is higher than the SC of the wells. From 2002 to 2005, the SC of the leachate collection ditch samples ranged from about 1,000 to about 3,700 µS/cm annually. The SC of the leachate collection ditch water has decreased from 2006 to 2011, but continues to show fluctuations. OWS-1 has the lowest SC range, about 270 to 330 µS/cm, which is significantly less than the other sampling sites. OWS-02, OWS-3, and OWD-1, near Mill process areas, have similar SC, with values typically between 660 and 1080 µS/cm.

Sulfate: Sulfate concentrations since 2002 have been lowest in OWS-01 (median 5.3 mg/L), and highest in the leachate collection ditch (median 44.0 mg/L), and sulfate concentrations in the leachate collection ditch samples decreased following capping the landfill. OWS-02 and OWD-01 have similar sulfate concentrations, with median values of 40.0 and 28.8 mg/L, respectively. OWS-03 sulfate concentrations have been between <5 and 102 mg/L, with median of 8.9 mg/L. All of the sulfate results are below the Class GA standards of 250 mg/L.

3.2 Metals Analyses

Metals analyses from 2002 to 2011 are discussed below. The eleven February 2002 to February 2007 samples per site were reported to PQL values that were at least 10 times greater than the current detection limits (MDL) and between 73 and 100 percent of analyses for each parameter from the monitoring wells were below the PQL. Samples are collected by Environment 1, Inc., of Greenville, NC. Sample collection prior to 2000 was done by bailing water from each well; this may have resulted in samples that were biased high for metals because bailing causes high concentrations of suspended solids in samples. When the sample is acidified for preservation,

metals adsorbed to particulates are released to the water sample. In the last 10 years, Environment 1 changed to sample collection using a peristaltic pump which reduces suspended solids in the samples. The date the collection method changed was not recorded (R. Hilgoe, Environment 1, personal communication).

Nine additional samples have been collected by Environment 1 using a peristaltic pump at each site since August 2007 (675 analyses). Metals concentrations in these later analyses have frequently been at or below their respective MDL (i.e., 182 analyses or 27 percent) or between the MDL and 10 times the MDL (192 analyses or 29 percent) (Table 6). Concentrations reported between the MDL and 10 times the MDL are generally considered to have higher uncertainty than concentrations that are greater than 10 times MDL and are flagged with an "L" qualifier in addition to the "J" qualifier. Seventy percent of the analyses (475) had concentrations between the MDL and SWSL, and 18 analyses (less than 3 percent) had concentrations above the SWSL (Table 6).

Antimony: All of the analyses before August 2007 were below detection limits (0.003 or 0.006 mg/L). Antimony concentrations in all of the recent analyses have been at or below the MDL or less than 10 times the MDL. The analyses from the leachate collection ditch and OWS-02 have typically been slightly above the MDL and the analyses from the background well, OWD-01, and OWS-03 have been below the MDL (Figure G-12). No analyses since 2007 have exceeded the GWP standard of 0.001 mg/L.

Arsenic: Fifty-five samples from the five sites were taken from February 2002 to 2007, and 76 percent were below the detection limit of 0.01 mg/L. The maximum arsenic concentration was 0.025 mg/L at OWS-02 in February 2006, which was above the 2L groundwater standard of 0.01 mg/L. Nine of 11 samples from OWD-01 had arsenic concentrations at or above the 2L groundwater standard, with maximum concentration of 0.016 mg/L in February 2005. The remaining sites had one sample each with concentration above the 2L standard (LC-01, 8/26/03, 0.014 mg/L; OWS-01, 2/24/03, 0.019 mg/L, OWS-03, 8/26/05, 0.011 mg/L).

None of the recent (late 2007 to August 2011) arsenic analyses have exceeded the 2L standard; all of these concentrations have been estimated and 69 percent have been more than 10 times MDL. The highest estimated median arsenic concentration was 0.0046 mg/L in OWD-01; the estimated median background concentration was 0.0020 in OWS-03, and these analyses do not appear to be significantly different (Figure G-13).

None of the samples were above the Class SC tidal salt water arsenic standard of 0.050 mg/L.

Barium: All of the analyses before August 2007 were below detection limits (0.1 or 0.5 mg/L). None of the recent analyses have exceeded the 2L barium standard (0.7 mg/L), there have been no analyses at or below the MDL, and 10 analyses have been above the SWSL of 0.1 mg/L (5 have been from OWS-02). OWS-02 has the highest median barium concentration (0.11 mg/L), which is similar to the estimated median concentrations in OWD-01 and OWS-03 (Figure G-14). These median concentrations are significantly higher than the estimated median concentration of barium in the background well (0.043 mg/L).

Beryllium: All of the analyses before August 2007 were below detection limits (0.001 or 0.002 mg/L). Most of the analyses since 2007 have been at or below the MDL (84 percent), and the remaining 7 analyses have been at or below 0.0001 mg/L (5 times the MDL).

None of the recent analyses have been above the GWP standard (0.004 mg/L),

Cadmium: All of the analyses before August 2007 were below the PQL of 0.001 mg/L. No analyses since 2007 have exceeded the 2L standard (0.002 mg/L) and all have been below the SWSL. Sixteen analyses have been at or below the MDL, 27 analyses have been between the MDL and 10 times the MDL, and 2 analyses have been above 10 times the MDL. The median estimated concentration at sites with few non-detects (OWS-01, OWS-02, and OWS-03) was 0.0001 mg/L. Figure G-16 shows the low concentrations of barium at the ILF; there does not appear to be a significant variation in concentrations at the ILF sampling sites.

None of the samples were above the Class SC tidal salt water cadmium standard of 0.050 mg/L.

Chromium: Fifty-five samples from the five sites were taken from February 2002 to 2007 and 76 percent were below the detection limit (0.005 or 0.01 mg/L). The maximum chromium concentration was 0.096 mg/L at background well OWS-01 in February 2003, which was above the 2L groundwater standard of 0.01 mg/L and seven other samples from OWD-01 had chromium concentrations at or above the 2L groundwater standard. OWS-02 and OWS-03 had no chromium concentrations above the 0.005 or 0.01 mg/L detection limit. One sample from OWD-01 and four samples from LC-01 were at or above the 0.01 mg/L detection limit; the maximum concentration in these samples was 0.015 mg/L.

Analyses from August 2007 to date have had much lower chromium concentrations (less than 0.0032 mg/L); none have exceeded the 2L groundwater standard and all have been below the SWSL. The highest estimated median chromium concentration was 0.0013 mg/L at background well OWS-01 (Figure G-17).

None of the samples were above the Class SC tidal salt water chromium standard of 0.020 mg/L.

Cobalt: All of the analyses from the leachate ditch, OWS-02, and OWS-03 were below the detection limit in the pre-August 2007 samples. More than 60 percent of analyses from OWS-01 and OWD-01 in this time exceeded the current GWP standard of 0.001 mg/L.

The cobalt SWSL is 0.010 mg/L which is above the GWP standard. All of the OWD-01 summer samples have exceeded the GWP standard; the median concentration (including estimated values) is 0.016 for this well since 2007. All of the other cobalt analyses have been reported as estimated or below the MRL. The estimated median concentrations at LC-01, OWS-01, OWS-02, and OWS-03 were 0.0008, 0.0041, 0.0005, and 0.0007, respectively (Figure G-18), and the cobalt concentration in the background well appears to be increasing. Given the distribution of cobalt in the shallow wells and leachate samples, the ILF is probably not a source of cobalt.

Copper: All of the analyses before August 2007 were below detection limits (0.01 or 0.02 mg/L), except for the OWS-03 sample from February 2003 (0.049 mg/L). This sample exceeded the Class SC tidal salt water standard for copper of 0.003 mg/L.

The 2L standard is 1 mg/L, and none of the recent analyses have exceeded this standard or the SWSL of 0.010 mg/L. The leachate collection ditch had the highest copper concentration in the recent samples (0.0057J in August 2010) and has had three other samples with estimated copper concentrations above the Class SC standard. The median estimated copper concentration from leachate collection ditch samples was 0.0029 mg/L, which is below the Class SC standard. Swift Creek, the leachate collection ditch, and OWS-02 had similar median copper concentrations which were above the background estimated mean of 0.0007 mg/L at OWS-01 (Figure G-19).

Lead: All 2002 to early 2007 analyses from OWD-01, OWS-02, and OWS-03 were below the detection limit (0.005 or 0.01 mg/L). Five analyses from OWS-01 had concentrations between 0.016 and 0.066 mg/L and were above the 2L standard of 0.015 mg/L; the remaining analyses were below the detection limit. One analysis from LC-01 had a concentration of 0.016 mg/L and the remaining results were below the detection limit.

No lead analyses from the later set of samples have been above the 2L standard, the Class SC tidal salt water standard of 0.025 mg/L, or the SWSL of 0.010 mg/L. Eighty percent of the analyses have been less than 10 times the MDL. The highest median concentration was in OWS-02 (0.0004 mg/L); five of these analyses were less than 10 times the MDL. The estimated median concentration at OWS-02 does not appear to be significantly greater than the estimated median of background well OWS-01 (0.0002 mg/L) Figure G-20 shows the distribution of lead in the ILF samples.

Nickel: All of the analyses before August 2007 were below the detection limit of 0.050 mg/L. All of the analyses since August 2007 have been below the 0.050 mg/L SWSL and have been reported as estimated concentrations. No estimated concentrations of nickel have exceeded the 2L standard of 0.100 mg/L. Estimated concentrations of nickel have exceeded the Class SC tidal salt water standard of 0.0083 mg/L at the leachate collection ditch (0.0112J, 0.0131J, and 0.0145J mg/L). The Class SC standard has been below the estimated concentration reports in one analysis from OWS-01 (0.012J mg/L) and OWS-02 (0.0115J mg/L); however, these results are far outliers for the two sites. The estimated median concentrations from the leachate collection ditch, OWD-01, and OWS-02 are significantly above the estimated median concentration at OWS-01 (Figure G-21).

Selenium: All of the analyses before August 2007 were below detection limits (0.01 or 0.02 mg/L). None of the recent analyses have been greater than 3.3 times above the MDL and 60 percent of the analyses have been at or below the MDL. The 2L standard for selenium is 0.020 mg/L and the SWSL is 0.010 mg/L. Selenium concentrations in the samples since 2007 do not indicate selenium to be a significant metal in groundwater at the ILF and there is no significant difference in selenium concentrations between the leachate and ILF wells (Figure G-22).

Silver: All of the analyses before August 2007 were below the detection limit of 0.01 mg/L and the 2L groundwater standard of 0.02 mg/L. All but one of the recent analyses have been less than or equal to 5 times above the MDL and 60 percent of the analyses have been at or below the MDL (the median MDL for the later set of analyses is 0.0004 mg/L). One sample that was a far outlier at OWS-03 (0.001J mg/L, 2/3/2011) was at the Class SC tidal salt water standard of 0.001 mg/L and this concentration was over 30 times the MDL. Silver concentrations in the samples since 2007 do not indicate silver to be a significant metal in groundwater at the ILF.

Thallium: All of the analyses before August 2007 were below detection limits (0.005 or 0.01 mg/L), except for OWS-02 in February 2007 (0.028 mg/L). This sample was above the GWP standard of 0.00028 mg/L.

With the exception of analyses from OWD-01, all of the recent thallium analyses have been at or below six times the MDL, and have had median concentrations of 0.00004 to 0.00007 mg/L, which is below the SWSL of 0.0055 mg/L (Figure G-24). Thallium has not been detected in the leachate samples and many of the shallow well samples. It does not appear to be a significant metal relative to potential groundwater impacts from the ILF.

All of the estimated concentrations of thallium in OWD-01 since August 2007 have been above the GWP standard and the median estimated thallium concentration at OWD-01 was 0.0006 mg/L. Seven of the OWD-01 analyses have been between 10 and 32 times the MDL and represent the actual concentrations of thallium in the samples.

Vanadium: Eighty-seven percent of the 2002 to early 2007 vanadium samples were below the PQL (typically 0.04 mg/L) which was above the vanadium GWP standard of 0.0003 mg/L. The one site with consistently high vanadium concentrations was background well OWS-01, where 7 samples had concentrations below the detection limit and 4 had concentrations from 0.057 to 0.526 mg/L.

The vanadium sample from OWS-02 in February 2009 had a concentration of 0.034 mg/L which was above the SWSL and GWP standard. The remaining late 2007 to 2011 vanadium samples have had estimated concentrations or concentrations below the MDL. All estimated concentrations of vanadium have been at or above the GWP standard but below the SWSL of 0.025 mg/L. The highest estimated median concentration was 0.014 mg/L at OWS-02, followed by 0.0083 mg/L at the leachate collection ditch; both were above the estimated median of 0.0053 mg/L at background well OWS-01 (Figure G-25).

Zinc: Eighty-seven percent of the 2002 to 2007 zinc analyses were below the detection limit (0.01 or 0.05 mg/L) and no analyses were at or above the 2L groundwater standard of 1 mg/L. Zinc was detected in OWS-01 with a median concentration of 0.051 mg/L and maximum of 0.227 mg/L and 5 samples were below the detection limit.

The zinc SWSL is 0.010 mg/L. Two recent zinc concentrations have been above the SWSL: 0.015 and 0.019 mg/L in the leachate collection ditch samples from August 2010 and 2011, respectively. No zinc analysis has exceeded the 2L standard or the Class SC tidal salt water standard (0.086 mg/L). The median zinc concentration of 0.0065 mg/L in leachate collection

ditch samples may be statistically significantly above the background estimated median for zinc of 0.0031 mg/L; however, the concentrations of zinc in the ILF groundwater and leachate samples are less than zinc concentrations observed in the RSDS and Swift Creek samples (Figure G-26).

3.3 Volatile Organic Compounds:

Analysis of volatile organic compounds (VOCs) in samples from the leachate collection ditch and monitoring wells at the ILF has been performed since 2002 and VOCs have generally not been detected. Analysis of the samples for methylene chloride (dichloromethane) is required by the SWS and it has not been detected in any of the VOC samples.

The October 2001 SWS requirements included analysis of VOCs. VOCs were analyzed using EPA Method 601 (purgeable halocarbons by GC) from February 2002 to February 2007. No VOCs were detected in the samples analyzed using Method 601 at a detection limit for all parameters of 0.001 mg/L. This detection limit was above the current groundwater Class GA standard for bromodichloromethane, carbon tetrachloride, dibromochloromethane, 1,2-dichloroethane, 1,2-dichloropropane, cis-1,3-dichloropropene, trans-1,3- dichloropropene, 1,1,2,2- tetrachloroethane, tetrachloroethene, 1,1,2-trichloroethane, and vinyl chloride.

The SWS requested a change in analytical method in a letter dated June 25, 2007 and EPA Method 8260B (VOCs by GC/MS; sample preparation method not given) was used from August 2007 to August 2010. Standard Methods 6230D (purge and trap capillary-column GC) was used for the analysis of samples collected in November 2010 (Table C-3).

Detection limits decreased in the VOC analyses conducted beginning in August 2007. Only three parameters have been detected at the five sample sites: acetone, 2-butanone (methyl ethyl ketone), and chloromethane (methyl chloride). The estimated concentrations reported by the laboratory were generally less than 5 µg/L for acetone and 2-butanone and less than 1 µg/L for chloromethane, which were well below regulatory limits. These VOCs were present in background well OWS-01, the other wells, and the leachate sample, and are most probably biogenic.

Some VOCs have had detection limits above the Class GA groundwater standard. The MDLs for four parameters in the analyses since August 2007 (1,2-dibromo-3- chloropropane, 1,2-dibromoethane, 1,2,3-trichloropropane, and vinyl chloride) have been below their respective SWSLs, but their detection limits exceed their respective Class GA groundwater standard. The detection limit for 1,1,2,2- tetrachloroethane was 0.016 µg/L in 2007 to 2009, which was below the 0.02 µg/L Class GA standard and the SWSL of 3 µg/L. The detection limit for samples analyzed in 2010 and 2011 was 0.026 µg/L, which is above the Class GA standard.

Although some of the detection limits have been above the Class GA standard, there have been no violations of 15A NCAC 2L standards because the concentrations have not been at or above the PQL or SWSL.

4.0 RSDS CHEMISTRY DATA

The RSDS began receiving Mill residuals in January 2003 following closure of the ILF. The RSDS operates under Surface Disposal Permit WQ0004084 issued by the Division of Water Quality.

4.1 Leachate Characteristics

The leachate from the RSDS was sampled (sample site RSDS-LC01 in Table E-1) in November 2010 and March 2011 for the monitoring parameters required by Condition IV. 1. and 2. of the permit. No VOCs were detected in the November 2010 sample. Concentrations of inorganic parameters in the leachate samples are discussed below.

4.2 Groundwater Monitoring

Groundwater samples are collected each March, July, and November for parameters specified in the Surface Disposal Permit: water level, temperature (°C), pH, SC, TDS, ammonia (as N), nitrate (as N), sulfate, COD, TOC, cadmium, chromium, copper, nickel, and zinc (Table E-1). Analyses for total phenolics and phenolic compounds by GC/MS are also performed on the samples and the November samples are also analyzed for VOCs (Table E-2). Sample collection and analysis are performed by Environment 1, Inc. of Greenville, North Carolina.

Field groundwater level measurements and groundwater elevation data are included in Table A-1 in Appendix A. Figures 9 and 10 show groundwater elevation data from Summer 2010 and Winter 2011, respectively. Groundwater in the vicinity of the RSDS flows to the east toward Swift Creek. Well L-02 is the upgradient (background) well for the RSDS.

4.2.1 RSDS Field Data

Field chemistry parameters included pH, SC, and temperature measurements made at the time of sample collection (Table E-1). Field data sheets from March 2003 to July 2009 were included in the data package provided by Weyerhaeuser. The static water level (SWL) in each well and well depth were included in the field notes. Water samples were obtained using a peristaltic pump to remove approximately 3 casing volumes from each well prior to sample collection. Some of the data sheets include odor and appearance notes; samples typically had no odor and were clear to silty. No field equipment calibration data were included with the field data. All sample data are reported on a “total” basis (i.e., not filtered in the field).

4.2.2 RSDS Well Laboratory Chemistry Data

Table E-1 lists the laboratory chemistry data for the RSDS wells. Table 7 provides a statistical summary of the field and laboratory chemistry data. Phenolic compound and VOC data have not been included in Table 7 because none of these parameters have been detected in the samples. Time-trend plots for the parameters discussed in the following section are in Appendix F and Appendix G includes box plots of the constituent data.

4.2.3 Indicator Parameters and Metals

Groundwater samples were generally analyzed for inorganic parameters: ammonia reported in the equivalent concentration of nitrogen (ammonia as N), nitrate (as N), and sulfate; trace metals: cadmium, chromium, copper, nickel, and zinc; and indicator parameters: TDS, COD, total phenols, and TOC. Results of the analyses are summarized below. The PQL was used as the reporting limit for these analyses.

Temperature: The monitoring wells are shallow in the vicinity of the landfill and have temperatures that are related to the approximate average monthly air temperature, indicating the samples are from a shallow groundwater system. The mean groundwater temperature is 18.7 °C (66 °F) based on the 3 samples per year.

pH: The median pH at wells L-01, L-02, L-03, and L-04 (5.3, 5.9, 4.8, and 6.5 units, respectively) has been at or less than the SDWS lower limit of 6.5 units, and these median values are consistent with pH measurements made in 2001 prior to operation of the RSDS. Only one sample has been below the Class SC tidal salt water pH standard of 4.3 (L-03, 4.1 units, July 2003). The pH of the leachate was 7.4 in November 2010.

The box plots (Figure G-2) show the background pH at L-02 is statistically significantly higher than the pH in wells L-01 and L-03, but is lower than the pH at L-04. These differences do not appear to be related to operation of the RSDS, based on the pH data from 2001 to 2003.

Specific Conductance: The median SC at wells L-01, L-02, L-03, and L-04 has been 122, 142, 35, and 451 µS/cm, respectively. The SC of the two leachate samples was 1540 µS/cm. SC at L-01, L-02, and L-03 has been relatively constant since 2003 (Figure E-3). L-04 SC has always been higher than the SC in the background well (Figure G-3).

Total Dissolved Solids: The median TDS at wells L-01, L-02, L-03, and L-04 has been 70, 108, 42, and 339 mg/L, respectively, which have been below the 2L groundwater standard of 500 mg/L. These median values are consistent with TDS measurements made in 2001 prior to operation of the RSDS. There does not appear to be a significant increase in TDS over time at L-01, L-02, or L-03. The TDS (and SC) at L-04 is significantly higher than the background TDS (and SC), and this was the case prior to operation of the RSDS (Figures E-4 and G-4). The TDS data from L-04 appears to show a slightly increasing trend in TDS over time. The average TDS of the two leachate samples was 1020 mg/L.

Ammonia (as N): Ammonia samples have been obtained since November 2006, and 29 percent of the ammonia samples have been below the reporting limit of 0.04 mg/L. The GWP standard for ammonia (as N) is 1.5 mg/L, and the median concentrations in the four wells have been 0.04, 0.10, 0.04, and 1.16 mg/L, respectively. The average ammonia concentration in the two leachate samples was 0.05 mg/L.

Ammonia concentrations in L-04 have exceeded the GWP standard 4 times (July 2009, 2010, and 2011 and March 2011), and the ammonia concentrations in L-04 are significantly higher than the background concentration (Figure G-6). A possible explanation for the high ammonia concentration is that environmental conditions in the vicinity of the well allow for

the reduction of nitrate to ammonia, as the nitrate concentration in this well is generally below its detection limit.

The July 2011 ammonia concentrations in background well L-02, L-01, and L-03 were between 0.30 and 1.38 mg/L, which were the highest ammonia concentrations determined at these sample sites.

Nitrate (as N): The 2L groundwater standard for nitrate (as N) is 10 mg/L and no samples have been above 4 mg/L. Nitrate concentrations have been below the 0.04 mg/L reporting limit in 41 percent of the samples. Nitrate was detected in one of the two leachate samples (0.05 mg/L).

The median nitrate concentration at L-01 was 0.75 mg/L with only 7 percent of the samples below the PQL; however, the nitrate concentration in this well was over 2 mg/L prior to RSDS operation and this well continued to have relatively high nitrate concentrations until November 2005 (Figure E-6). The nitrate concentration in L-01 has been significantly higher than the background nitrate concentration; however, this was the case prior to RSDS operation. At L-02, L-03, and L-04, the median concentration and percent below the PQL were 0.04 mg/L (48 percent), 0.07 mg/L (37 percent), and 0.04 mg/L (70 percent), respectively. The box plot for nitrate (Figure G-7) includes Swift Creek data where the nitrate values are nitrate plus nitrate (as N).

Sulfate: The 2L groundwater standard for sulfate is 250 mg/L and there has been one sample that has exceeded that value (L-04, 382 mg/L, July 2010). This sample appears to be an outlier as no other sample from L-04 has been above 125 mg/L and the median sulfate concentration in this well has been 27 mg/L. This median concentration is similar to the median of L-01 (26.4 mg/L) and is above the median at L-02 and L-03 (5.3 and 5.9 mg/L) (Figure G-8). The sulfate concentrations in L-01, L-02, and L-03 have not changed significantly since the RSDS began operation. L-01 and L-04 have significantly greater sulfate concentrations than the background well. The average sulfate concentration of the leachate samples was 334 mg/L.

Chemical Oxygen Demand: COD samples have been obtained since November 2006 (Figures F-8 and G-9). In the well samples, COD has been highest in upgradient well L-02 (median of 58 mg/L) and the leachate samples have averaged 166 mg/L. COD concentrations in samples from L-01 and L-03 have been relatively constant since 2006, and have been between 10 and 25 mg/L. COD concentrations in L-04 have typically been between about 27 and 39 mg/L.

Total Phenols: Nearly all the analyses (92 percent) for total phenolic compounds have been below the detection limit of 0.002 mg/L and the highest total phenols concentrations were measured at each well prior to operation of the RSDS. Total phenols is an indicator parameter and subject to interferences at forest-products sites (see below).

Total Organic Carbon: TOC samples have been obtained since November 2006. The TOC results are similar to the COD results, with the highest median TOC concentration present in background well L-02 (24.9 mg/L), followed by L-04 (14.6 mg/L), L-01 (1.8 mg/L) and L-03

(1.0 mg/L). The TOC in the latter two wells has typically been between 1 and 4 mg/L, with no increasing trend in TOC over the last 5 years. The leachate samples average TOC was 45.4 mg/L.

Cadmium: The cadmium PQL was 0.001 mg/L and 93 percent of the samples have been below the PQL. The 2L groundwater standard is 0.002 mg/L, which has been equaled in one sample from each of L-01 (November, 2005), L-02 (July, 2004), and L-03 (July, 2005). All the cadmium analyses have been at or below the 0.001 mg/L detection limit since November 2005 (Figure G-16).

Chromium: The chromium PQL was 0.005 except in November 2005 when the samples were reported as less than 0.02 mg/L. Seventy-five percent of the samples have been below the PQL. Twelve samples from L-01 (maximum concentration 0.043 mg/L), L-02 (maximum concentration 0.022 mg/L), and L-04 (maximum concentration 0.019 mg/L) were above the 0.01 mg/L 2L standard between 2001 and November 2007; however, no analyses have exceeded the standard since then. The median concentration in all the sample sites has been 0.005 mg/L (Figure G-17).

Copper: The copper PQL has been 0.010 mg/L and 93 percent of the samples have been at or below the PQL. The 2L standard for copper is 1 mg/L. The Class SC tidal salt water standard is 0.003 mg/L; however, the PQL has been above this standard. The median copper concentration has been 0.01 mg/L in all the wells. The well samples from November 12, 2004 had copper concentrations of 0.028 to 0.046 mg/L which are data outliers (Figure G-19). One sample (L-04, March 20, 2006) had a copper concentration of 0.142 mg/L and was rejected as an extreme outlier. Copper was detected in one of the two leachate samples (0.011 mg/L) and was below the PQL in the other sample.

Nickel: Ninety-six percent of the nickel samples have been below the PQL of 0.01 mg/L. Four samples (one from each well in May 2001) had concentrations at the PQL, which exceeded the Class SC tidal salt water standard of 0.008 mg/L but were below the 2L groundwater standard of 0.1 mg/L.

Zinc: The zinc 2L groundwater standard is 1 mg/L and the Class SC tidal salt water standard for zinc is 0.086 mg/L. No samples have exceeded these standards and 77 percent of the samples have been below the PQL. The median zinc concentrations from the well and leachate samples has been 0.010 mg/L because of the number of samples that have been below the PQL. Some groundwater samples have had zinc concentrations between 0.01 and 0.04 mg/L; however,23 of these 25 samples were obtained before July 2006 (Figure G-26).

4.2.4 Phenolic Compounds

The inorganic and indicator parameters typically analyzed in these groundwater samples include “phenol” as reported by Environment 1, which has been determined using Standard Methods 510 (SM510 A&B). This method does not analyze for phenol (as determined by EPA Method 604 or 625, discussed below). The “phenol” should be reported as “total phenolic compounds”, as the SM510 A&B colorimetric method uses a 4-aminoantipyrene (4-AAP) reagent that does not react in the same manner with all phenolic compounds (Neufeld and Paladino, 1985). At forest-

products sites the analytical method has been shown to generate phenolic compounds (e.g., guaiacol) during sample digestion, creating false positives (Miltimore and Wyatt, 1995). More than 90 of the 100 samples analyzed for total phenolic compounds have had results below the detection limit of 0.002 mg/L (Table B-2).

Phenolic compounds were analyzed by Environmental Chemists, Inc. of Wilmington, NC from 2003 to November 2008 using EPA Method 604 (gas chromatography/flame ionization detector [GC/FID]), and then by EPA Method 625 (semivolatile organic compounds by GC/MS with isotope dilution) in 2009. Environment 1 has analyzed samples for phenols by EPA Method 625 since 2010. All results, including one set of duplicate samples obtained on November 25, 2009, have been below detection limits (Table B-3). No laboratory QA/QC data were given for the analyses; however, since neither lab has reported any detections of the analyzed compounds, there is no evidence that these phenolic compounds are present at the site.

4.2.5 Volatile Organic Compounds

Environment 1 has analyzed groundwater samples from the RSDS wells for VOCs using Standard Methods 6230D (purge and trap gas chromatographic method) in November 2006, 2007, 2008, 2009, and 2010. All results have been below detection limits (Table E-2). No QA/QC data were given for the analyses; however, there is no evidence that VOCs are present at the site.

Some VOCs have had detection limits above the Class GA groundwater standard. The reported PQL of 0.5 µg/L exceeds the respective Class GA groundwater standard for the following parameters that have not been detected: carbon tetrachloride, 1,2-dibromo-3- chloropropane, dibromochloromethane, 1,2-dibromoethane, 1,2-dichloroethane, cis-1,3-dichloropropene, trans-1,3-dichloropropene, hexachlorobutadiene, 1,1,2,2-tetrachloroethane, 1,2,3-trichloropropane, and vinyl chloride.

5.0 DISCUSSION

Groundwater and leachate data do not show that the closed ILF or operating RSDS are having a significant impact to groundwater or Swift Creek on the Mill property.

5.1 Closed Industrial Landfill

The leachate collection ditch (sample site LC-01) and the wells in the vicinity of the ILF (OWS-01, OWS-02, and OWS-03) have been sampled in February and August since 1989. The monitoring system was originally designed so that OWS-01would be the background well, OWS-02, OWS-03, and OWD-01 would be downgradient wells, and the leachate collection ditch would monitor groundwater quality along the northeast, east, and southeast sides of the ILF (S&ME, 1987) and these sample sites were approved by the North Carolina Division of Health Services in 1989. The groundwater flow data at the ILF indicates that groundwater flow is to the east; therefore, monitoring wells OWS-02, OWS-03, and OWD-01 are upgradient of the ILF and that within the existing set of sampling sites the leachate collection ditch sample site is the best indicator of potential impacts to groundwater quality from the ILF. None of the sample sites are near the review boundary or the compliance boundary at distances of 125 and 250 feet downgradient from the ILF, respectively.

Analyses that have been performed since 1989 include field pH, SC, and temperature, and laboratory analyses of sulfate, arsenic, barium, cadmium, chromium, copper, lead, selenium, silver, and zinc. Analyses for antimony, beryllium, cobalt, nickel, thallium, vanadium, and VOCs were added as a permit requirement in 2002 during closure of the ILF. Variations in sampling methods (i.e., bailing vs. use of a peristaltic pump for sample collection), changes in the set of parameters that have been analyzed, and significant decreases in detection limits for many parameters since 2007 have reduced the usability of data collected prior to August 2007.

Concentrations of antimony, beryllium, cadmium, chromium, lead, selenium, silver, and VOCs have generally been below their respective MDL or have been less than ten times the MDL. In some cases, there have been seasonal or random variations in analyzed concentrations potentially caused by sampling variations, microbial interaction, or other unknown causes. These parameters are not significant indicators of groundwater quality at the ILF.

Since 2007, groundwater chemistry has been relatively stable and only a few analyses have exceeded the state Class GA groundwater standards or GWP standards:

- Most of the pH analyses from OWS-01 and all of the pH analyses from OWS-03 were less than pH 6.5, which is outside the 2L Class GA range of 6.5 to 8.5; however, OWS-01 is the background well and there is no statistical difference between the pH at the two sites.
- The summer samples from OWD-01 have exceeded the 0.001 mg/L GWP standard for cobalt with concentrations ranging from 0.016 to 0.026 mg/L.
- The vanadium concentration in the February 2009 sample from OWS-02 was 0.034 mg/L, which was above the vanadium GWP standard of 0.0003 mg/L.

Section 3 of this report identifies parameters that have concentrations significantly different from background well OWS-01 and the box plots in Appendix G show the ranges of these parameters. The parameters and sample sites that have statistically significant higher median concentrations (medians calculated using data above the SWSL or estimated concentrations) in the samples taken following landfill closure relative to the concentrations in OWS-01 include:

pH:	LC-01, OWD-01, OWS-02
SC:	LC-01, OWD-01, OWS-02, OWS-03
Sulfate:	LC-01, OWD-01, OWS-02
Barium:	OWD-01, OWS-02, OWS-03
Cobalt:	OWD-01
Copper:	LC-01, OWS-02
Nickel:	LC-01, OWD-01, OWS-02
Thallium:	OWD-01
Vanadium:	OWS-02

In general, the concentrations of these parameters have been relatively stable since 2007. The time-series plots in Appendix D do not show consistent increasing trends for the parameters listed above.

From the analysis of the groundwater flow direction, groundwater flows from the west near the chip pile and log yard, to the east toward Swift Creek. This flow direction implies that wells OWS-02, OWS-03, and OWD-01 are upgradient of the closed ILF and that the downgradient monitoring point is the leachate collection ditch (LC-01). The median concentrations of pH (8.0 units), SC (1620 µS/cm), copper (estimated median of 0.0029 mg/L), and nickel (estimated median of 0.0069 mg/L) in the leachate collection ditch are statistically higher than the respective medians calculated from the pooled well data.

The closest downgradient receptor to groundwater or leachate flow from the ILF is Swift Creek. None of the ILF leachate collection ditch or well pH analyses were outside of the Class SC-Sw tidal salt water-swamp water standards for pH (4.3 to 8.5 units), and the ILF groundwater pH is similar to the pH of Swift Creek. The pH of the leachate collection ditch water has been decreasing over the last 5 years but its median pH is still above the median pH in Swift Creek. pH measurements in Swift Creek from 1997 to 2007 had median pH values of 6.5 units upstream (Highway 43) and 6.7 units downstream near the mouth of Swift Creek.

There is no indication that operation of the ILF has impacted the SC of Swift Creek. The median SC of the leachate collection ditch water is higher than the Swift Creek median except during flow-reversal periods. SC of the leachate collection ditch water is typically 1,000 to 2,000 µS/cm and the groundwater SC is typically less than 1,000 to about 300 µS/cm. The median SC in Swift Creek was 140 µS/cm upstream and downstream of the ILF from 1997 to 2007 and there is no significant difference between the SC distribution at the two gaging stations. SC in Swift Creek is typically between 110 and 180 µS/cm at the two stations; however, during periods of flow reversal in Swift Creek the maximum SC was about 19,800 µS/cm. As shown in Figure 7,

there is no consistent increase in SC between the Swift Creek stations at Highway 43 and Askin that could be attributable to groundwater or leachate flow into Swift Creek between the two stations.

Some samples from the leachate collection ditch and wells that were analyzed for copper, nickel, and silver had estimated concentrations above the Class SC standard, but only one analysis of silver from OWS-03 had an estimated concentration that was more than twice the standard. A few samples from the leachate collection ditch also had estimated concentrations that were above the nickel standard of 0.0083 mg/L, but the maximum nickel concentration was only 0.0145 mg/L. Silver has not been analyzed in Swift Creek water and the nickel analyses have been below the detection limit of 0.010 mg/L.

The maximum estimated copper concentration in the leachate collection ditch samples was 0.0057 mg/L and three other leachate collection ditch samples had estimated concentrations that were above the standard for copper (0.003 mg/L). Copper concentrations in Swift Creek also exceeded the Class SC standard in over 25 percent of the samples and the maximum copper concentration (0.038 mg/L) was greater than the maximum concentration determined in the leachate since 2007 (0.0057 mg/L).

The conditions for final closure of the ILF were specified in a February 15, 2005 Letter of Closure from NCDENR. Water quality monitoring has been conducted for over 5 years past the November 11, 2004 closure date for the landfill, as specified in the Letter of Closure. The data from groundwater and leachate collection ditch sample analyses since closure of the landfill do not indicate the landfill is having a significant impact to Swift Creek.

5.2 Residual Surface Disposal System

Groundwater monitoring data indicate the RSDS liner appears to be functioning properly. Time-trend plots in Appendix F show no consistent significant changes or increasing trends in SC or in concentrations of TDS, sulfate, or metals in samples from L-01 or L-03 since the initial pre-operation sampling of the RSDS monitoring wells in May 2001 or in the first samples collected in March 2003 after the RSDS began operation. Release of alkaline leachate to groundwater is also not indicated as the groundwater pH in L-01 and L-03 has been below pH 6 and pH does not show increasing trends in these wells. The time-trend and box plots also show that before the RSDS began operation, L-04 had concentrations of pH, SC, and TDS that were and continue to be significantly higher than the respective concentrations observed in the upgradient well or the other downgradient wells.

Another indicator that the liner is functioning is the difference in TOC between upgradient well L-02 and wells L-01 and L-03 that are immediately downgradient from Cells A and B. The upgradient well (L-02) TOC concentration has been between 9.97 and 57.4 mg/L with median of 24.9 mg/L. The RSDS permit states that if the background well TOC exceeds 10 mg/L, the measured concentrations represent naturally occurring TOC. This naturally occurring TOC may be from recharge to groundwater in the swampy area upgradient from L-02. TOC concentrations in downgradient wells L-01 and L-03 are typically below 2 mg/L, which is a significant decrease from the upgradient well. TOC concentrations in L-01 and L-03 do not appear to be increasing

with time (Figure F-10) and indicate the wells are cutoff from a source of TOC, such as recharge to groundwater by swampy water near these wells.

The TOC concentration in L-04 is higher than the TOC in the other two downgradient wells. Well L-04 TOC has ranged between 9.36 and 24.3 mg/L with a median of 14.6 mg/L. In the March 2008 sample set, the L-02 TOC was 9.97 and this was exceeded by the L-04 TOC of 12.3 mg/L; this has been the only sample set where the background TOC was exceeded by a downgradient well. The simplest explanation for the higher TOC is that L-04 is influenced by the low elevation, frequently inundated area adjacent to the south and east sides of the landfill.

It appears that at least in the vicinity of L-01 and L-03, the biological reduction of nitrate to ammonia is limited by the lack of an energy source (i.e., organic carbon). The TOC to nitrate ratio in these wells is generally less than 50; this ratio is typically well above 100 in L-02 and L-04. The slow-moving groundwater system combined with the presence of the liner in the landfill cuts off recharge of surface water to the shallow groundwater system, and eliminates the input of organic carbon to the shallow flow system. Under most wood-residuals landfills, one expects the system to become anaerobic, resulting in nitrate and sulfate reduction, a pH of about 6, and the generation of organic compounds (e.g., acetone, toluene, 2-butanone) by anaerobic respiration (Wyatt, 2003; Louch, 2011). At the RSDS, it appears that microbial activity is limited by the lack of organic carbon, thus truncating the carbon cycle (Chapelle, 2001) and inhibiting further growth of anaerobic bacteria. Under this scenario, carbon dioxide produced by microbial respiration is trapped under the liner and the trapped CO_2 is converted to bicarbonate ions. This causes the reduction in pH seen in downgradient wells L-01 and L-03 and the lack of significant ammonia production or sulfate reduction.

With the exception of pH, ammonia, and sulfate, none of the other monitored parameters have exceeded their respective groundwater standards. The groundwater pH has been below the 2L lower limit of 6.5 units but within the Class SW range of 4.3 to 8.3. The pH in the vicinity of the RSDS is typically less than 6.5, as shown by the data from upgradient well L-02 where the pH range from 2001 to 2011 has been 4.7 to 6.3 units (median 5.9 units) and the range in OWS-01 has been 4.9 to 6.7 units (median 6.3 units). pH measurements made in 2001 at L-01 to L-04 prior to the receipt of residuals were 5.8, 5.1, 4.3, and 6.1 units, respectively. The range of pH measurements since 2001 at L-01 (4.6 to 5.8 units and median of 5.3 units) and L-03 (4.1 to 5.3 units and median of 4.8 units) have been statistically below the upgradient pH. The range of pH measurements at L-04 (6.1 to 6.7 units and median of 6.5 units) have been statistically above the upgradient pH. There is, however, no indication that the placement of residuals in the RSDS has impacted groundwater pH, which would be shown by an increase in the groundwater pH caused by release of alkaline leachate to the groundwater.

Ammonia and sulfate have exceeded the 2L groundwater standard at L-04. The concentrations of ammonia in L-04 have been higher than the background well and have exceeded the 2L groundwater standard of 1.5 mg/L in July 2008 (1.8 mg/L), July 2010 (1.5 mg/L), and March and July 2011 (1.51 and 1.65 mg/L, respectively). As this well is outside of the flow path from Cell A of the landfill and recent leachate analyses had less than 0.1 mg/L of ammonia or nitrate, the ammonia concentration in L-04 is probably not related to the RSDS, but is instead related to algal production of ammonia in standing water which is frequently present in the vicinity of the well.

The sulfate concentration in L-04 prior to 2009 was typically less than 30 mg/L, but in 2009 the sulfate concentration increased and the maximum sulfate concentration of 382 mg/L occurred in July 2010. Since then, the sulfate in concentration L-04 has decreased and was about 32 mg/L in July 2011. Two potential causes of the spike in sulfate concentration could be standing water from Swift Creek flood events in the vicinity of L-04 or a release of leachate from the RSDS. In the former case, oxidation of pyrite in the sediments could be a source of sulfate to L-04 (Luther and others, 1982; Matson and Brinson, 1985; Tesoriero and others, 2004).

The Mill identified the latter, but unlikely, source of sulfate to L-04 in a December 10, 2010 letter to NCDENR (letter from John Ashley, Mill Manager to Will Hart, NCDENR). In September 2009, a "small amount" of water was observed draining from Cell B to the undeveloped Cell C area in the vicinity of L-04. This pipe was plugged on October 1, 2009, nine months prior to the maximum sulfate concentration in L-04. Sulfate measurements in July 2009, November 2009 and March 2010 were 132.5, 63.2 and 102 mg/L, before and after the pipe was plugged. The area around L-04 was flooded by Swift Creek in October 2010 when Tropical Storm Nicole generated 23 inches of rain in the New Bern area. The sulfate concentration at L-04 in November 2010 was 117.5 mg/L the concentration decreased to 31.6 mg/L in July 2011 (Figure F-7), therefore it may not be possible to identify the cause of the previous high sulfate concentrations.

Organic compounds have generally not been detected in groundwater samples from the RSDS. Phenolic compounds in detectable concentrations are generally absent from the groundwater in the vicinity of the RSDS. All analyses of phenolic compounds (by GC/MS) have been below detection limits (0.005 or 0.025 mg/L). Analyses for total phenolic compounds, which is determined using a colorimetric method and is subject to interferences, have typically been below the detection limit of 0.002 mg/L (greater than 90 percent of samples); the maximum concentration was 0.008 mg/L in L-04 in May 2001.

Groundwater samples collected from 2006 to 2010 have not had any detectable VOC concentrations. The detection limit has been 0.5 µg/L except for total xylenes, which has had a detection limit of 1.0 µg/L. Note that the permit requires the 0.5 µg/L detection limit for all parameters; it may be necessary for Environment 1 to modify its detection limit for xylenes. Alternatively, given that no VOCs or phenols have been detected in the groundwater samples, Weyerhaeuser could request that VOCs and phenols be removed from the list of monitored parameters.

6.0 CONCLUSIONS

The conclusions of this review of data from the ILF and RSDS are as follows.

6.1 Groundwater and Surface Water Flow Regime

- Groundwater elevation is typically about 3 to 5 feet in the ILF/RSDA area and Swift Creek elevation is generally about 1 to 2 feet, giving a hydraulic gradient of about 0.003 from the area of the ILF and RSDS to the east, towards Swift Creek.

- Groundwater velocity is approximately 10 ft/yr, based on the estimated hydraulic conductivity for silty sand to medium sand of 0.01 to 0.0001 cm/s, the hydraulic conductivity between 0.0015 and 0.003, and 20 percent estimated effective porosity.

- The groundwater gradient indicates Swift Creek is generally a groundwater discharge area; however, the swamp forest land bordering Swift Creek, the ILF, and RSDS is prone to flooding caused by hurricanes, tropical storms, wind-driven tides, and other high-precipitation events. Minor flooding, where the water stage is over the 4-foot elevation occurs every one to two years. The moderate flood stage elevation (6 feet) has been exceeded by at least four events since September 1999.

- During summertime low-flow conditions in Swift Creek, a two-layer estuarine flow system develops with a layer of fresh water overlying salt water. The SC of Swift Creek water is approximately 200 µS/cm under normal discharge conditions. During low-flow events a concentration gradient develops and the maximum SC at depth in Swift Creek has exceeded 10,000 µS/cm on Weyerhaeuser property.

6.2 Closed Industrial Landfill

The ILF was used for Mill residuals disposal from the time the Mill began operation in 1969 and stopped receiving materials in late 2002. The ILF was closed by capping and closure was completed in November 2004. Review of the ILF groundwater data indicates the following:

- Well OWS-01 is the background well for the closed ILF. There are no Mill facilities within 800 feet upgradient of this well. Well OWS-03 is upgradient of the ILF and is immediately downgradient of the Mill chip pile. Wells OWS-02 and OWD-01 are upgradient of the ILF and are downgradient of the Mill log yard.

- Previous investigations have identified a downward hydraulic gradient from OWS-02 to OWD-01. This is apparently an artifact caused by an error in surveying the top of casing elevation in OWD-01. Based on the March 2011 survey, there is no downward hydraulic gradient.

- Groundwater monitoring at the ILF has been conducted since 1989. Variations in the sample collection methods, changes in analytical methods, and decreases in required detection limits have reduced the usability of the data obtained from 1989 to 2007 for currently monitored metals (antimony, arsenic, barium, beryllium, cadmium, chromium,

cobalt, copper, lead, nickel, selenium, silver, thallium, vanadium, and zinc). As shown in Figures D-15 to D-30, the pre-2007 data for these parameters were frequently below detection limits. In some cases (e.g., the chromium, copper, and lead concentrations in background well OWS-01) the pre-2007 concentrations of some of the metals are 1 to 2 orders-of-magnitude greater than the recent data and could be considered as data outliers.

- Since 2007, groundwater chemistry has been relatively stable and a few analyses of the parameters that are currently monitored in wells OWS-01, OWS-02, OWS-03, and OWD-01 have exceeded the 15 NCAC 2L Class GA groundwater standards, but given the groundwater flow direction, these exceedances in the 2L standards may not have resulted from releases from the area of the ILF.

- Concentrations of antimony, beryllium, cadmium, chromium, lead, selenium, silver, and VOCs have been at or below method detection limits and these parameters are not indicators of any impacts to groundwater by the ILF.

- The leachate collection ditch is the de facto downgradient groundwater monitoring system for the ILC. The median concentrations of pH (8.0 units), SC (1620 µS/cm), copper (estimated median of 0.0029 mg/L), and nickel (estimated median of 0.0069 mg/L) in the leachate collection ditch water samples are statistically higher than the respective medians calculated using all the ILF well data as being representative of background water quality in the vicinity of the ILF. Leachate intercepted by the leachate collection ditch is pumped to the wastewater treatment system, reducing the potential for the leachate to impact Swift Creek.

- There is no indication that the ILF has impacted Swift Creek water quality. From 1997 to 2007 the pH of Swift Creek was 6.5 units upstream of the RSDS/Landfill area at the Highway 43 sample site and 6.7 units at the downstream Askin sample site before entering the Neuse River. The median concentrations of aluminum, copper, and zinc downstream of the ILF were 0.38, 0.002 (with 54 percent of analyses below reporting limits), and 0.01 mg/L (with 57 percent below reporting limits), respectively, based on data from 74 sampling events. Arsenic, cadmium, chromium, lead, mercury, and nickel concentrations were below reporting limits. As shown in the time-trend plots (Figures B-1 to B-20), there do not appear to be significant differences in concentrations in any of the plotted parameters before or after closure of the ILF that would indicate potential impacts by the ILF.

6.3 Residual Surface Disposal System

The RSDS has been in operation since January 2003. Well L-02 is the upgradient (background) well for the RSDS. The data review indicates the following:

- Residual material deposited at the RSDS include high-pH, non-hazardous solids.

- The upgradient well (L-02) naturally occurring TOC concentration has been between 9.97 and 57.4 mg/L with median of 24.9 mg/L. TOC concentrations in downgradient

wells L-01 and L-03 are typically below 2 mg/L, and the median TOC in L-04 has been 14.6 mg/L.

- There is no indication that the placement of residuals in the RSDS has impacted groundwater pH, which would be shown by an increase in the groundwater pH caused by release of alkaline leachate to the groundwater. The median groundwater pH in the upgradient well has been 5.9 units and the median pH in downgradient well samples has been between 4.8 and 6.5 units.

- No concentrations of phenolic or volatile organic compounds have been above reporting limits in wells downgradient from the RSDS.

- A spike in sulfate concentration occurred in July 2010 at well L-04 when the sulfate concentration of reached 382 mg/L, which is above its typical concentration of about 30 mg/L in this well. There were no corresponding spikes in pH, SC, or TDS at L-04 which would be indicators of a release of leachate from the RSDS.

- Concentrations of metals monitored in groundwater in the vicinity of the RSDS (cadmium, chromium, copper, nickel, and zinc) have generally been at or below detection limits since 2007.

- Concentrations of ammonia and nitrate fluctuate in the groundwater in the vicinity of the RSDS. These fluctuations appear to be caused by natural microbiological activity and are not related to leachate releases from the RSDS.

- Based on groundwater data from wells downgradient from the RSDS, there is no indication that the liner in Cell A or Cell B of the RSDS has failed.

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LIMITATIONS

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TABLES

Table 1
Well Completion Summary
Weyerhaeuser New Bern Cellulose Fiber Mill

Site ID	Easting (X) (ft)	Northing (Y) (ft)	Completion Date	Ground Surface Elevation (ft)	Top of Casing Elevation (ft)	Borehole Total Depth (ft)	Borehole Diameter (in)	Well Completion Depth (ft)	Top of Screen Depth (ft)	Bottom of Screen Depth (ft)	Screen Slot Size (in)	Consultant
L-01	2,563,565.7	541,611.2	7/6/1989	6.6	8.84	15.0	6.25	11.5	1.5	11.5	0.010	Westinghouse
L-02	2,563,114.7	541,554.5	7/6/1989	5.9	8.13	15.0	6.25	11.5	1.5	11.5	0.010	Westinghouse
L-03	2,564,000.0	541,201.7	7/6/1989	10.1	11.96	15.0	6.25	15.0	1.5	11.5	0.010	Westinghouse
L-04	2,564,267.7	540,747.6	7/5/1989	5.7	8.38	15.0	6.25	12.5	2.5	12.5	0.010	Westinghouse
OWD-01	2,565,269.8	537,837.4	6/29/1989	10.9	13.11	27.0	8.00	24.5	19.5	24.5	0.010	Westinghouse
OWS-01	2,564,060.1	539,940.4	6/28/1989	5.5	8.04	16.0	8.00	11.5	1.5	11.5	0.010	Westinghouse
OWS-02	2,565,276.2	537,836.2	6/29/1989	10.7	13.11	14.0	8.00	12.5	2.5	12.5	0.010	Westinghouse
OWS-03	2,564,093.5	538,829.7	6/30/1989	10.3	12.52	14.5	8.00	14.0	4.0	14.0	0.010	Westinghouse

Notes:

All wells drilled using hollow-stem augers and constructed of 2-inch diameter PVC casing and screen.
Well coordinates are in North Carolina State Plane, NAD83 (feet). Elevation datum is National Geodetic Vertical Datum of 1929 (NGVD 29).
To convert NGVD29 to NAVD88 in the vicinity of the Mill subtract 1.12 feet (see http://www.ngs.noaa.gov/cgi-bin/VERTCON/vert_con.prl)

Location and elevations surveyed by Gary S. Miller & Associates, March 2011.

Previous (ca. 1989) survey data:

Site ID	Easting (X, ft)	Northing (Y, ft)	Ground Surface Elevation (ft)	Top of Casing Elevation (ft)
L-01	2,563,565.8	541,611.8	6.7	8.99
L-02	2,563,114.8	541,555.1	6.2	8.33
L-03	2,564,000.2	541,202.3	10.0	12.11
L-04	2,564,267.9	540,748.1	5.9	8.53
OWD-01	2,565,269.5	537,838.2	10.9	12.43
OWS-01	2,564,060.2	539,941.0	5.7	8.22
OWS-02	2,565,276.1	537,836.6	11.0	13.26
OWS-03	2,564,093.8	538,830.3	10.3	13.08

Table 2
Swift Creek Water Quality Data Summary
Weyerhaeuser New Bern Cellulose Fiber Mill

Sample Site	Statistic (Data from 1/6/1997 to 12/31/2007)	Temperature; (°C)	pH; Field (units)	Specific Conductance; Field (uS/cm)	Dissolved Oxygen; Field (mg/L)	Turbidity; Field (NTU)	Hardness (as CaCO3); Total (mg/L)	Ammonia (as N); Total (mg/L)	Nitrate plus Nitrite (as N); Total (mg/L)	Biochemical Oxygen Demand; Total (mg/L)	Iron; Total (mg/L)	Manganese; Total (mg/L)	Aluminum; Total (mg/L)	Arsenic; Total (mg/L)	Cadmium; Total (mg/L)	Chromium; Total (mg/L)	Copper; Total (mg/L)	Lead; Total (mg/L)	Mercury; Total (mg/L)	Nickel; Total (mg/L)	Zinc; Total (mg/L)
NC-2B-SC		---	4.3-8.5	---	<5	25	---	---	---	---	---	---	---	0.05	0.005	0.02	0.003	0.025	2.5E-05	0.008	0.086
SWCR_ASKIN	Count	767	679	689	683	139	36	139	139	2	74	6	74	74	74	74	74	74	73	74	74
SWCR_ASKIN	Maximum	32.0	9.0	19900	15.7	70	120	0.94	1.3	4.2	2.2	0.14	2.3	0.01	0.002	0.025	0.038	0.01	0.0002	0.01	0.098
SWCR_ASKIN	Minimum	3.1	5.8	11	0.2	1.3	24	0.01	0.02	3.2	0.35	0.017	0.082	0.005	0.001	0.01	0.002	0.01	0.0002	0.01	0.01
SWCR_ASKIN	Average	17.8	6.8	673	5.93	7.39	48.9	0.07	0.44	3.70	0.92	0.049	0.50	0.009	0.002	0.025	0.003	0.010	0.0002	0.010	0.015
SWCR_ASKIN	Std Dev	7.4	0.5	2200	2.95	7.04	19.2	0.10	0.25	0.71	0.32	0.046	0.42	0.002	0.000	0.002	0.005	0.000	0.0000	0.000	0.012
SWCR_ASKIN	CV	0.4	0.1	3.3	0.5	1.0	0.4	1.4	0.6	0.2	0.4	0.9	0.8	0.2	0.1	0.1	1.4	0.0	0.0	0.0	0.8
SWCR_ASKIN	CI about Mean	0.0	0.00	5	0.01	0.04	0.2	0.001	0.00	0.03	0.00	0.001	0.00	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.000
SWCR_ASKIN	25th Percentile	11.8	6.5	109	3.70	4.30	40.0	0.02	0.26	3.45	0.71	0.022	0.24	0.010	0.002	0.025	0.002	0.010	0.0002	0.010	0.010
SWCR_ASKIN	Median	18.4	6.7	141	5.70	5.60	44.0	0.04	0.44	3.70	0.87	0.035	0.39	0.010	0.002	0.025	0.002	0.010	0.0002	0.010	0.010
SWCR_ASKIN	75th Percentile	24.2	7.1	181	7.80	7.70	52.5	0.08	0.59	3.95	1.10	0.048	0.56	0.010	0.002	0.025	0.003	0.010	0.0002	0.010	0.015
SWCR_ASKIN	IQR	12.4	0.6	72	4.10	3.40	12.5	0.06	0.33	0.50	0.39	0.025	0.32	0.000	0.000	0.000	0.001	0.000	0.0000	0.000	0.005
SWCR_ASKIN	%ND	0%	0%	0%	0%	0%	0%	16%	2%	0%	0%	0%	0%	100%	100%	100%	57%	100%	100%	100%	61%
SWCR_ASKIN	%> Guidance Level		0.10%		40%	1%											27%				1%
SWCR_HWY_43	Count	541	519	522	517	7	7	551	551	4	7	0	7	7	7	7	7	7	7	7	7
SWCR_HWY_43	Maximum	28.8	8.4	7040	14.4	19	64	1.5	2	3.8	0.92		0.7	0.01	0.002	0.025	0.011	0.01	0.0002	0.01	0.044
SWCR_HWY_43	Minimum	2.6	3.2	34	0.1	2.5	31	0.01	0.01	1.7	0.44		0.16	0.01	0.002	0.025	0.002	0.01	0.0002	0.01	0.01
SWCR_HWY_43	Average	17.5	6.4	338	5.26	7.80	50.0	0.08	0.48	2.68	0.67		0.36	0.010	0.002	0.025	0.003	0.010	0.0002	0.010	0.022
SWCR_HWY_43	Std Dev	7.0	0.5	858	2.96	5.91	10.3	0.12	0.33	0.95	0.15		0.22	0.000	0.000	0.000	0.003	0.000	0.0000	0.000	0.011
SWCR_HWY_43	CV	0.4	0.1	2.5	0.6	0.8	0.2	1.6	0.7	0.4	0.2		0.6	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.5
SWCR_HWY_43	CI about Mean	0.0	0.0	2	0.01	0.14	0.2	0.000	0.00	0.03	0.00		0.01			0.000	0.000		0.0000		0.000
SWCR_HWY_43	25th Percentile	11.8	6.2	110	2.90	3.95	47.5	0.03	0.19	2.00	0.60		0.20	0.010	0.002	0.025	0.002	0.010	0.0002	0.010	0.015
SWCR_HWY_43	Median	17.8	6.5	140	4.40	5.40	50.0	0.05	0.46	2.60	0.67		0.29	0.010	0.002	0.025	0.002	0.010	0.0002	0.010	0.021
SWCR_HWY_43	75th Percentile	24.1	6.7	167	7.20	9.90	55.0	0.09	0.71	3.28	0.73		0.50	0.010	0.002	0.025	0.002	0.010	0.0002	0.010	0.025
SWCR_HWY_43	IQR	12.3	0.5	57	4.30	5.95	7.5	0.06	0.52	1.28	0.13		0.30	0.000	0.000	0.000	0.000	0.000	0.0000	0.000	0.011
SWCR_HWY_43	%ND	0%	0%	0%	0%	0%	0%	12%	4%	0%	0%		0%	100%	100%	100%	29%	100%	100%	100%	14%
SWCR_HWY_43	%> Guidance Level		0.19%		55%												14%				

NC-2B-SC	15A NCAC 02B Class SC Surface Water Standards
Count	Number of analyses
Std Dev	Standard deviation
CV	Coefficient of variation (standard deviation/average)
CI	Confidence interval about the mean at the 95% confidence level
IQR	Interquartile range (75th percentile - 25th percentile)
%ND	Percent of non-detect values relative to PQL
%> Guidance Level	Percent of values above regulatory limit

Sample Locaitons

Sample Site ID	Sample Site Description	NC DWQ Station No.	USGS Station No.	Latitude	Longitude
SWCR_HWY_43	Swift Creek at Highway 43 near Streets Ferry	J8230000	209205053	35°13'51" (35.23104°)	77°06'50" (-77.11388°)
SWCR_ASKIN	Swift Creek at Mouth near Askin	J8210000	2092084	35°11'34" (35.19278°)	77°05'23" (-77.08984°)

Data accessed from STORET, December 2011

Table 3
Survey Data, March 2011
Weyerhaeuser New Bern Cellulose Fiber Mill

Monitoring Well Site ID	NC State Plane (NAD 83) Easting (X, ft)	Northing (Y, ft)	Mill Coordinates Easting (X, ft)	Northing (Y, ft)	Latitude	Longitude
L-01	2,563,565.65	541,611.22	50,300.44	55,032.78	35°13'24.4"	77°0.6'46.2"
L-02	2,563,114.71	541,554.50	49,931.10	54,767.93	35°13'24.0"	77°0.6'51.6"
L-03	2,564,000.01	541,201.74	50,877.48	54,879.92	35°13'20.3"	77°0.6'41.0"
L-04	2,564,267.73	540,747.56	51,329.36	54,608.32	35°13'15.8"	77°0.6'37.9"
OWD-01	2,565,269.78	537,837.44	53,597.63	52,527.98	35°12'46.8"	77°0.6'26.5"
OWS-01	2,564,060.09	539,940.42	51,531.65	53,799.82	35°13'07.8"	77°0.6'40.6"
OWS-02	2,565,276.24	537,836.24	53,603.88	52,530.01	35°12'46.8"	77°0.6'26.4"
OWS-03	2,564,093.52	538,829.69	52,090.59	52,839.40	35°12'56.8"	77°0.6'40.4"
Mill Survey Monuments						
93-6	2,563,304.83	538,394.96	51,604.58	52,081.24	35'12'52.7"	77'0.6'50.0"
0.7-1	2,562,860.67	537,533.11	51,625.03	51,111.81	35'12'44.3"	77'0.6'55.6"
0.7-2	2,562,806.53	537,433.69	51,624.86	50,998.60	35'12'43.3"	77'0.6'56.3"

Table 4
Changes in Ground Surface and Casing Elevation from 1989 to 2011
Weyerhaeuser New Bern Cellulose Fiber Mill

	Elevation (NGVD29, ft)				Change in
	Ground Surface		Top of PVC Casing		Top of Casing
SITE ID	March, 2011	1989	March, 2011	1989	Elevation (ft)
L-01	6.6	6.7	8.84	8.99	-0.15
L-02	5.9	6.2	8.13	8.33	-0.20
L-03	10.1	10.0	11.96	12.11	-0.15
L-04	5.7	5.9	8.38	8.53	-0.15
OWD-01	10.9	10.9	13.11	12.43	0.68
OWS-01	5.5	5.7	8.04	8.22	-0.18
OWS-02	10.7	11.0	13.11	13.26	-0.15
OWS-03	10.3	10.3	12.52	13.08	-0.56

Table 5
Laboratory Analysis Notes
Weyerhaeuser New Bern Cellulose Fiber Mill

Parameter	Value	Site ID	Date	Note
BOD	>6.5 mg/L	OWS wells	8/3/1993	Data with “>” are stored in chemistry database table with a following plus sign (e.g., 6.5+)
BOD	>5.5 mg/L	OWS-02	8/10/1994	Stored as 5.5+
Nitrate (as N)	6.78 mg/L	OWS-02	2/13/1996	Possible outlier; other sites <0.04
BOD	>11 mg/L	OWS-02	8/15/1997	Stored as 11+
BOD	>6.9 mg/L	OWS-02	2/16/1998	Stored as 6.9+
BOD	>6.4 mg/L	OWS-02	8/31/1998	Stored as 6.4+
Lead	<0.005 mg/L	OWS-03	8/4/1999	Other sites had detection limit of <0.010
Arsenic	<0.000 mg/L	OWS-03	2/7/2000	Changed to <0.010 to be consistent with other reported values
Chromium	<0.005 mg/L	OWS-03 OWD-01	8/27/2002	Other sites had detection limit of <0.010
Lead	<0.005 mg/L	All	2/24/2003	Other dates lead had detection limit of 0.010 mg/L
Selenium	0.3J µg/L	OWS-02	8/18/2010	Value less than MDL (0.32 µg/L)
Copper	0.142 mg/L	L-04	3/20/2006	Sample reported as silty; other metals concentrations were elevated in this sample; copper concentration approximately 10 times greater than typical values
Nickel	0.10 mg/L	All wells	11/4/2005	Use of EPA method 200.8 with detection limit 10 times greater than other methods
Temperature	35°C	L-01	7/28/2010	Other groundwater temperatures ~22°C
Total Dissolved Solids	529 mg/L	L-03	11/19/2000	Not consistent with specific conductance measurement; median TDS is 42 mg/L in L-03

Table 6
Statistics Summary--ILF General Chemistry and Metals, 2007-2011
Weyerhaeuser New Bern Cellulose Fibers Mill

Site	Sample Dates: 2/19/2002 to 8/30/2011; Metals data from 8/30/2007	Temperature; Field (°C)	pH; Field (units)	Specific Conductance; Field (uS/cm)	Sulfate; Total (mg/L)	Antimony; Total (mg/L)	Arsenic; Total (mg/L)	Barium; Total (mg/L)	Beryllium; Total (mg/L)	Cadmium; Total (mg/L)	Chromium; Total (mg/L)	Cobalt; Total (mg/L)	Copper; Total (mg/L)	Lead; Total (mg/L)	Nickel; Total (mg/L)	Selenium; Total (mg/L)	Silver; Total (mg/L)	Thallium; Total (mg/L)	Vanadium; Total (mg/L)	Zinc; Total (mg/L)
NC-2L-Groundwater Class GA Stds		---	6.5-8.5	---	250	---	0.01	0.7	---	0.002	0.01	---	1	0.015	0.1	0.02	0.02	---	---	1
NC-2L-GW IMAC		---	---	---	---	0.001	---	---	0.004	---	---	0.001	---	---	---	---	---	0.0002	0.0003	---
NC-GWP Stds		---	---	---	---	0.001	---	---	0.004	---	---	0.001	---	---	---	---	---	0.00028	0.0003	---
LC-01	Count	20	20	20	20	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
LC-01	Maximum	35	8.5	3770	217.6	0.0007	0.0038	0.0843	0.0001	0.00006	0.0032	0.0012	0.0057	0.0016	0.0145	0.0005	0.00052	0.00063	0.0173	0.019
LC-01	Minimum	2	6.2	411	5	0.00006	0.0006	0.0189	0.00002	0.00002	0.00011	0.00029	0.0014	0.0001	0.0023	0.00012	0.00002	0.00002	0.0027	0.0021
LC-01	Average	18.1	7.78	1762	63.3	0.00030	0.0017	0.037	0.00006	0.00004	0.0011	0.00074	0.0032	0.00036	0.0081	0.00032	0.00010	0.00011	0.0089	0.0076
LC-01	Std Dev	10.0	0.53	903	60.8	0.00017	0.0011	0.020	0.00003	0.00001	0.0009	0.00033	0.0015	0.00048	0.0040	0.00014	0.00016	0.00020	0.0047	0.0058
LC-01	CV	0.6	0.1	0.5	1.0	0.6	0.6	0.5	0.4	0.4	0.8	0.4	0.5	1.4	0.5	0.4	1.5	1.8	0.5	0.8
LC-01	CI about Mean	0.1	0.01	13	0.9	0.00000	0.0000	0.000	0.00000	0.00000	0.0000	0.00001	0.0000	0.00001	0.0001	0.00000	0.00000	0.00000	0.0001	0.0001
LC-01	25th Percentile	10.0	7.75	1088	18.8	0.00022	0.0007	0.024	0.00006	0.00002	0.0006	0.00040	0.0021	0.00010	0.0058	0.00027	0.00004	0.00003	0.0051	0.0034
LC-01	Median	18.5	7.95	1615	44.0	0.00030	0.0016	0.031	0.00006	0.00004	0.0009	0.00080	0.0029	0.00011	0.0069	0.00030	0.00004	0.00004	0.0083	0.0065
LC-01	75th Percentile	26.5	8.10	2081	78.4	0.00030	0.0021	0.038	0.00006	0.00004	0.0015	0.00090	0.0046	0.00040	0.0112	0.00040	0.00010	0.00005	0.0126	0.0078
LC-01	IQR	16.5	0.35	993	59.6	0.00008	0.0014	0.014	0.00000	0.00002	0.0009	0.00050	0.0025	0.00030	0.0054	0.00013	0.00006	0.00002	0.0075	0.0044
LC-01	%ND	0%	0%	0%	20%	22%	0%	0%	89%	100%	11%	0%	0%	0%	0%	33%	78%	100%	0%	0%
LC-01	%> Guidance Level		5%																	
OWD-01	Count	20	20	20	20	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
OWD-01	Maximum	21	6.9	824	125.6	0.00022	0.007	0.108	0.00008	0.0001	0.00024	0.026	0.0008	0.0003	0.0084	0.00035	0.00052	0.0008	0.0011	0.0073
OWD-01	Minimum	14	5.9	632	14.1	0.00005	0.0026	0.0545	0.00002	0.00002	0.00003	0.0062	0.0002	0.00001	0.0033	0.00012	0.00002	0.0003	0.00028	0.0013
OWD-01	Average	18.5	6.65	736	31.3	0.00013	0.0046	0.085	0.00005	0.00006	0.00010	0.014	0.00044	0.00010	0.0055	0.00022	0.00014	0.00058	0.00053	0.0026
OWD-01	Std Dev	1.9	0.23	42	23.4	0.00007	0.0017	0.019	0.00002	0.00004	0.00006	0.007	0.00022	0.00008	0.0016	0.00009	0.00016	0.00017	0.00025	0.0019
OWD-01	CV	0.1	0.0	0.1	0.7	0.5	0.4	0.2	0.5	0.6	0.7	0.5	0.5	0.8	0.3	0.4	1.2	0.3	0.5	0.7
OWD-01	CI about Mean	0.0	0.00	1	0.3	0.00000	0.0000	0.000	0.00000	0.00000	0.00000	0.000	0.00000	0.00000	0.0000	0.00000	0.00000	0.00000	0.00001	0.0000
OWD-01	25th Percentile	17.0	6.60	722	20.5	0.00008	0.0031	0.078	0.00002	0.00002	0.00004	0.009	0.00020	0.00007	0.0046	0.00014	0.00003	0.00050	0.00038	0.0016
OWD-01	Median	19.0	6.70	740	28.8	0.00010	0.0046	0.088	0.00006	0.00004	0.00010	0.016	0.00040	0.00010	0.0053	0.00020	0.00010	0.00060	0.00050	0.0019
OWD-01	75th Percentile	20.0	6.73	756	32.2	0.00020	0.0058	0.102	0.00006	0.00010	0.00011	0.019	0.00060	0.00010	0.0065	0.00032	0.00020	0.00070	0.00060	0.0025
OWD-01	IQR	3.0	0.13	35	11.7	0.00012	0.0027	0.024	0.00004	0.00008	0.00007	0.010	0.00040	0.00003	0.0019	0.00018	0.00017	0.00020	0.00022	0.0009
OWD-01	%ND	0%	0%	0%	0%	78%	0%	0%	100%	56%	89%	0%	11%	33%	0%	78%	56%	0%	22%	0%
OWD-01	%> Guidance Level		10%									56%								
OWS-01	Count	21	21	21	21	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
OWS-01	Maximum	24	6.7	976	160.3	0.00027	0.0043	0.136	0.0001	0.0002	0.0018	0.0085	0.001	0.0007	0.012	0.00051	0.00052	0.0003	0.0103	0.0059
OWS-01	Minimum	9	4.6	220	5	0.00005	0.0014	0.0364	0.00006	0.00004	0.0007	0.001	0.0003	0.0001	0.0013	0.00012	0.00003	0.00003	0.004	0.0024
OWS-01	Average	17.8	6.28	359	17.7	0.00013	0.0028	0.053	0.00008	0.00011	0.0012	0.0044	0.00064	0.00029	0.0032	0.00028	0.00011	0.00009	0.0059	0.0036
OWS-01	Std Dev	5.5	0.41	196	33.7	0.00009	0.0010	0.032	0.00002	0.00005	0.0004	0.0021	0.00027	0.00018	0.0035	0.00015	0.00016	0.00008	0.0020	0.0013
OWS-01	CV	0.3	0.1	0.5	1.9	0.7	0.4	0.6	0.2	0.5	0.3	0.5	0.4	0.6	1.1	0.5	1.4	0.9	0.3	0.4
OWS-01	CI about Mean	0.1	0.01	3	0.5	0.00000	0.0000	0.001	0.00000	0.00000	0.0000	0.0000	0.00001	0.00000	0.0001	0.00000	0.00000	0.00000	0.0000	0.0000
OWS-01	25th Percentile	13.0	6.30	268	5.0	0.00006	0.0020	0.040	0.00006	0.00010	0.0010	0.0033	0.00040	0.00020	0.0014	0.00020	0.00004	0.00004	0.0048	0.0027
OWS-01	Median	20.0	6.30	290	5.3	0.00008	0.0025	0.043	0.00008	0.00010	0.0013	0.0041	0.00070	0.00020	0.0016	0.00020	0.00004	0.00007	0.0053	0.0031
OWS-01	75th Percentile	23.0	6.50	308	14.2	0.00022	0.0036	0.049	0.00010	0.00010	0.0015	0.0053	0.00080	0.00030	0.0031	0.00032	0.00010	0.00010	0.0059	0.0037
OWS-01	IQR	10.0	0.20	40	9.2	0.00016	0.0016	0.009	0.00004	0.00000	0.0005	0.0020	0.00040	0.00010	0.0017	0.00012	0.00006	0.00006	0.0011	0.0010
OWS-01	%ND	0%	0%	0%	43%	78%	0%	0%	56%	11%	0%	0%	0%	0%	0%	67%	56%	56%	0%	0%
OWS-01	%> Guidance Level		71%																	

Table 6
Statistics Summary--ILF General Chemistry and Metals, 2007-2011
Weyerhaeuser New Bern Cellulose Fibers Mill

Site	Sample Dates: 2/19/2002 to 8/30/2011; Metals data from 8/30/2007	Temperature; Field (°C)	pH; Field (units)	Specific Conductance; Field (uS/cm)	Sulfate; Total (mg/L)	Antimony; Total (mg/L)	Arsenic; Total (mg/L)	Barium; Total (mg/L)	Beryllium; Total (mg/L)	Cadmium; Total (mg/L)	Chromium; Total (mg/L)	Cobalt; Total (mg/L)	Copper; Total (mg/L)	Lead; Total (mg/L)	Nickel; Total (mg/L)	Selenium; Total (mg/L)	Silver; Total (mg/L)	Thallium; Total (mg/L)	Vanadium; Total (mg/L)	Zinc; Total (mg/L)
NC-2L-Groundwater Class GA Stds		---	6.5-8.5	---	250	---	0.01	0.7	---	0.002	0.01	---	1	0.015	0.1	0.02	0.02	---	---	1
NC-2L-GW IMAC		---	---	---	---	0.001	---	---	0.004	---	---	0.001	---	---	---	---	---	0.0002	0.0003	---
NC-GWP Stds		---	---	---	---	0.001	---	---	0.004	---	---	0.001	---	---	---	---	---	0.00028	0.0003	---
OWS-02	Count	20	20	20	20	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
OWS-02	Maximum	25	7	1379	190.6	0.00072	0.0022	0.179	0.0001	0.0005	0.0027	0.0076	0.0023	0.0016	0.0115	0.00047	0.00052	0.00063	0.034	0.0083
OWS-02	Minimum	11	5.4	269	5	0.00005	0.00047	0.0449	0.00002	0.00004	0.0002	0.0003	0.0005	0.00015	0.0015	0.00012	0.00003	0.00003	0.0046	0.0025
OWS-02	Average	18.4	6.61	894	56.6	0.00033	0.0011	0.11	0.00007	0.00018	0.0010	0.0016	0.0015	0.00049	0.0054	0.00029	0.00012	0.00012	0.015	0.0043
OWS-02	Std Dev	4.3	0.36	234	53.6	0.00022	0.0005	0.04	0.00002	0.00014	0.0008	0.0024	0.0006	0.00044	0.0029	0.00011	0.00015	0.00019	0.009	0.0019
OWS-02	CV	0.2	0.1	0.3	0.9	0.7	0.5	0.4	0.4	0.8	0.8	1.5	0.4	0.9	0.5	0.4	1.3	1.6	0.6	0.4
OWS-02	CI about Mean	0.1	0.01	3	0.8	0.00000	0.0000	0.00	0.00000	0.00000	0.0000	0.0001	0.0000	0.00001	0.0001	0.00000	0.00000	0.00000	0.000	0.0000
OWS-02	25th Percentile	15.0	6.58	747	23.0	0.00020	0.0008	0.08	0.00006	0.00010	0.0005	0.0004	0.0011	0.00020	0.0039	0.00030	0.00004	0.00004	0.008	0.0030
OWS-02	Median	18.5	6.70	880	40.0	0.00030	0.0010	0.11	0.00006	0.00010	0.0008	0.0005	0.0015	0.00040	0.0048	0.00030	0.00010	0.00005	0.014	0.0036
OWS-02	75th Percentile	22.0	6.80	1076	67.9	0.00040	0.0015	0.13	0.00008	0.00020	0.0014	0.0007	0.0019	0.00050	0.0054	0.00032	0.00010	0.00007	0.019	0.0053
OWS-02	IQR	7.0	0.23	330	44.9	0.00020	0.0007	0.05	0.00002	0.00010	0.0009	0.0003	0.0008	0.00030	0.0015	0.00002	0.00006	0.00003	0.011	0.0023
OWS-02	%ND	0%	0%	0%	10%	11%	0%	0%	78%	11%	0%	0%	0%	0%	0%	44%	44%	78%	0%	0%
OWS-02	%> Guidance Level		15%																11%	
OWS-03	Count	20	20	20	20	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
OWS-03	Maximum	27	6.5	1049	101.2	0.00044	0.008	0.1	0.00008	0.00011	0.0005	0.0039	0.0041	0.0003	0.0046	0.0006	0.001	0.00063	0.0032	0.0056
OWS-03	Minimum	11	5.4	355	5	0.00005	0.0007	0.0681	0.00002	0.0001	0.0001	0.0003	0.0002	0.00007	0.0013	0.00012	0.00002	0.00003	0.0014	0.0005
OWS-03	Average	20.9	6.24	749	21.0	0.00016	0.0033	0.083	0.00005	0.00010	0.00030	0.0011	0.0012	0.00015	0.0029	0.00029	0.00021	0.00011	0.0021	0.0022
OWS-03	Std Dev	4.6	0.23	168	27.8	0.00013	0.0026	0.011	0.00002	0.00000	0.00016	0.0011	0.0012	0.00008	0.0010	0.00018	0.00034	0.00019	0.0007	0.0017
OWS-03	CV	0.2	0.0	0.2	1.3	0.8	0.8	0.1	0.5	0.0	0.5	1.1	1.0	0.5	0.3	0.6	1.6	1.7	0.3	0.8
OWS-03	CI about Mean	0.1	0.00	2	0.4	0.00000	0.0001	0.000	0.00000	0.00000	0.00000	0.0000	0.0000	0.00000	0.0000	0.00000	0.00001	0.00000	0.0000	0.0000
OWS-03	25th Percentile	17.8	6.20	660	5.0	0.00006	0.0017	0.072	0.00002	0.00010	0.00020	0.0004	0.0005	0.00010	0.0023	0.00014	0.00004	0.00004	0.0017	0.0011
OWS-03	Median	21.0	6.30	733	8.9	0.00008	0.0020	0.080	0.00006	0.00010	0.00025	0.0007	0.0007	0.00010	0.0028	0.00020	0.00004	0.00005	0.0020	0.0015
OWS-03	75th Percentile	25.0	6.33	892	28.0	0.00022	0.0055	0.091	0.00006	0.00010	0.00040	0.0013	0.0016	0.00020	0.0035	0.00040	0.00010	0.00007	0.0024	0.0034
OWS-03	IQR	7.3	0.13	232	23.0	0.00016	0.0038	0.019	0.00004	0.00000	0.00020	0.0009	0.0011	0.00010	0.0012	0.00026	0.00006	0.00003	0.0007	0.0023
OWS-03	%ND	0%	0%	0%	40%	89%	0%	0%	100%	0%	22%	11%	11%	11%	0%	78%	67%	89%	0%	0%
OWS-03	%> Guidance Level		95%																	
All Sites	Count	101	101	101	101	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
All Sites	Maximum	35	8.5	3770	217.6	0.00072	0.008	0.179	0.0001	0.0005	0.0032	0.026	0.0057	0.0016	0.0145	0.0006	0.001	0.0008	0.034	0.019
All Sites	Minimum	2	4.6	220	5	0.00005	0.00047	0.0189	0.00002	0.00002	0.00003	0.00029	0.0002	0.00001	0.0013	0.00012	0.00002	0.00002	0.00028	0.0005
All Sites	Average	18.7	6.70	894	37.8	0.00021	0.0027	0.073	0.00006	0.00010	0.00076	0.0045	0.0014	0.00028	0.0050	0.00028	0.00014	0.00020	0.0066	0.0041
All Sites	Std Dev	5.9	0.67	631	45.6	0.00016	0.0019	0.036	0.00002	0.00008	0.00073	0.0062	0.0013	0.00033	0.0033	0.00013	0.00020	0.00025	0.0070	0.0035
All Sites	CV	0.3	0.1	0.7	1.2	0.8	0.7	0.5	0.4	0.8	1.0	1.4	1.0	1.2	0.7	0.5	1.5	1.3	1.1	0.9
All Sites	CI about Mean	0.0	0.00	4	0.3	0.00000	0.0000	0.000	0.00000	0.00000	0.00001	0.0001	0.0000	0.00000	0.0000	0.00000	0.00000	0.00000	0.0001	0.0000
All Sites	25th Percentile	15.0	6.30	632	6.2	0.00008	0.0013	0.043	0.00006	0.00004	0.00020	0.0005	0.0005	0.00010	0.0027	0.00014	0.00004	0.00004	0.0017	0.0021
All Sites	Median	19.0	6.60	752	23.6	0.00020	0.0021	0.072	0.00006	0.00010	0.00052	0.0012	0.0008	0.00020	0.0045	0.00030	0.00004	0.00007	0.0046	0.0031
All Sites	75th Percentile	23.0	6.80	1000	38.8	0.00030	0.0036	0.092	0.00008	0.00010	0.00130	0.0060	0.0019	0.00030	0.0061	0.00035	0.00010	0.00030	0.0084	0.0053
All Sites	IQR	8.0	0.50	368	32.6	0.00022	0.0023	0.050	0.00002	0.00006	0.00110	0.0055	0.0014	0.00020	0.0034	0.00021	0.00006	0.00026	0.0067	0.0032
All Sites	%ND	0%	0%	0%	23%	56%	0%	0%	84%	36%	24%	2%	4%	9%	0%	60%	60%	64%	4%	0%
All Sites	%> Guidance Level		40%									11%							2%	

Table 6
Statistics Summary--ILF General Chemistry and Metals, 2007-2011
Weyerhaeuser New Bern Cellulose Fibers Mill

Site	Sample Dates: 2/19/2002 to 8/30/2011; Metals data from 8/30/2007	Temperature; Field (°C)	pH; Field (units)	Specific Conductance; Field (uS/cm)	Sulfate; Total (mg/L)	Antimony; Total (mg/L)	Arsenic; Total (mg/L)	Barium; Total (mg/L)	Beryllium; Total (mg/L)	Cadmium; Total (mg/L)	Chromium; Total (mg/L)	Cobalt; Total (mg/L)	Copper; Total (mg/L)	Lead; Total (mg/L)	Nickel; Total (mg/L)	Selenium; Total (mg/L)	Silver; Total (mg/L)	Thallium; Total (mg/L)	Vanadium; Total (mg/L)	Zinc; Total (mg/L)
NC-2L-Groundwater Class GA Stds		---	6.5-8.5	---	250	---	0.01	0.7	---	0.002	0.01	---	1	0.015	0.1	0.02	0.02	---	---	1
NC-2L-GW IMAC		---	---	---	---	0.001	---	---	0.004	---	---	0.001	---	---	---	---	---	0.0002	0.0003	---
NC-GWP Stds		---	---	---	---	0.001	---	---	0.004	---	---	0.001	---	---	---	---	---	0.00028	0.0003	---

CV = Coefficient of variation (standard deviation/average)

CI = Confidence interval about the mean at the 95% confidence level

IQR = Interquartile range (75th percentile - 25th percentile)

%ND = Percent of non-detect values

%> Guidance Level = Percent of values above regulatory limit (N/A = not available)

Table 7
Statistics Summary--RSDS Water Quality Data
Weyerhaeuser New Bern Cellulose Fibers Mill

Site	Sample Dates: 5/14/2001 to 7/26/2011	Temperature; (°C)	pH; Field (units)	Specific Conductance; Field (uS/cm)	Total Dissolved Solids; Total (mg/L)	Ammonia (as N); Total (mg/L)	Nitrate (as N); Total (mg/L)	Sulfate; Total (mg/L)	Chemical Oxygen Demand; Total (mg/L)	Total Phenols; Total (mg/L)	Total Organic Carbon; Total (mg/L)	Cadmium; Total (mg/L)	Chromium; Total (mg/L)	Copper; Total (mg/L)	Nickel; Total (mg/L)	Zinc; Total (mg/L)
NC-2L-GroundwaterClass GA Stds		---	6.5-8.5	---	500	---	10	250	---	---	---	0.002	0.01	1	0.1	1
NC-2L-GW IMAC		---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---
NC-GWP Stds		---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---
L-01	Count	26	28	26	27	15	27	27	15	27	15	27	27	27	26	27
L-01	Maximum	35	5.8	155	272	0.3	3.61	38.5	25	0.004	3.38	0.002	0.043	0.028	0.01	0.04
L-01	Minimum	13	4.6	44	42	0.04	0.04	10.1	10	0.002	1	0.001	0.005	0.01	0.01	0.01
L-01	Average	20.1	5.26	113	74.6	0.089	0.95	27.2	15.7	0.0021	1.82	0.0010	0.0092	0.011	0.010	0.013
L-01	Std Dev	4.6	0.30	33	41.7	0.084	0.91	7.2	4.8	0.0004	0.71	0.0002	0.0088	0.003	0.000	0.007
L-01	CV	0.2	0.1	0.3	0.6	1.0	1.0	0.3	0.3	0.2	0.4	0.2	1.0	0.3	0.0	0.5
L-01	CI about Mean	0.1	0.00	0	0.5	0.001	0.01	0.1	0.1	0.0000	0.01	0.0000	0.0001	0.000	0.000	0.000
L-01	25th Percentile	16.0	5.10	83	58.0	0.040	0.16	21.2	11.0	0.0020	1.28	0.0010	0.0050	0.010	0.010	0.010
L-01	Median	20.5	5.30	122	70.0	0.040	0.75	26.4	17.0	0.0020	1.78	0.0010	0.0050	0.010	0.010	0.010
L-01	75th Percentile	23.0	5.50	138	77.5	0.100	1.49	33.7	19.0	0.0020	2.21	0.0010	0.0085	0.010	0.010	0.010
L-01	IQR	7.0	0.40	54	19.5	0.060	1.33	12.5	8.0	0.0000	0.94	0.0000	0.0035	0.000	0.000	0.000
L-01	%ND	0%	0%	0%	0%	47%	7%	0%	20%	93%	20%	93%	70%	89%	96%	78%
L-01	%> Guidance Level		100%									4%	19%			
L-02	Count	26	28	26	27	15	27	27	15	27	15	27	27	27	26	27
L-02	Maximum	22	6.3	198	131	0.93	0.8	36.2	159	0.005	57.36	0.002	0.022	0.041	0.01	0.027
L-02	Minimum	11	4.7	61	54	0.04	0.04	5	26	0.002	9.97	0.001	0.005	0.01	0.01	0.01
L-02	Average	17.2	5.82	144	103	0.24	0.091	7.55	61.3	0.0023	26.1	0.0010	0.0070	0.011	0.010	0.012
L-02	Std Dev	3.3	0.35	31	21	0.25	0.152	6.08	31.5	0.0008	11.3	0.0002	0.0046	0.006	0.000	0.004
L-02	CV	0.2	0.1	0.2	0.2	1.0	1.7	0.8	0.5	0.3	0.4	0.2	0.7	0.5	0.0	0.3
L-02	CI about Mean	0.0	0.00	0	0	0.00	0.002	0.07	0.5	0.0000	0.2	0.0000	0.0001	0.000	0.000	0.000
L-02	25th Percentile	15.0	5.70	127	89	0.06	0.040	5.00	42.0	0.0020	20.9	0.0010	0.0050	0.010	0.010	0.010
L-02	Median	18.5	5.90	142	108	0.10	0.040	5.30	58.0	0.0020	24.9	0.0010	0.0050	0.010	0.010	0.010
L-02	75th Percentile	20.0	6.00	160	121	0.32	0.070	7.50	68.0	0.0020	28.6	0.0010	0.0060	0.010	0.010	0.011
L-02	IQR	5.0	0.30	33	33	0.26	0.030	2.50	26.0	0.0000	7.6	0.0000	0.0010	0.000	0.000	0.000
L-02	%ND	0%	0%	0%	0%	13%	48%	37%	0%	89%	0%	89%	74%	89%	96%	74%
L-02	%> Guidance Level		100%									4%	11%			
L-03	Count	26	28	26	26	15	27	27	15	27	15	27	27	27	26	27
L-03	Maximum	23	5.3	78	85	1.38	1.92	31.8	20	0.006	4.2	0.002	0.02	0.043	0.01	0.012
L-03	Minimum	13	4.1	26	5.7	0.04	0.04	5	10	0.002	1	0.001	0.005	0.01	0.01	0.01
L-03	Average	19.0	4.75	36.6	37.2	0.15	0.27	7.48	14.13	0.0021	1.27	0.0010	0.0057	0.011	0.010	0.010
L-03	Std Dev	3.1	0.29	10.8	18.9	0.34	0.43	5.32	3.14	0.0008	0.83	0.0002	0.0029	0.006	0.000	0.000
L-03	CV	0.2	0.1	0.3	0.5	2.2	1.6	0.7	0.2	0.4	0.6	0.2	0.5	0.6	0.0	0.0
L-03	CI about Mean	0.0	0.00	0.1	0.2	0.01	0.01	0.06	0.05	0.0000	0.01	0.0000	0.0000	0.000	0.000	0.000
L-03	25th Percentile	16.0	4.50	29.0	21.5	0.04	0.04	5.05	12.00	0.0020	1.00	0.0010	0.0050	0.010	0.010	0.010
L-03	Median	20.0	4.80	35.0	42.0	0.04	0.07	5.90	14.00	0.0020	1.00	0.0010	0.0050	0.010	0.010	0.010
L-03	75th Percentile	21.0	5.00	40.0	44.0	0.09	0.31	7.50	15.00	0.0020	1.00	0.0010	0.0050	0.010	0.010	0.010
L-03	IQR	5.0	0.50	11.0	22.5	0.05	0.27	2.45	3.00	0.0000	0.00	0.0000	0.0000	0.000	0.000	0.000
L-03	%ND	0%	0%	0%	0%	53%	37%	26%	33%	93%	80%	93%	89%	93%	96%	89%
L-03	%> Guidance Level		100%									4%				

Table 7
Statistics Summary--RSDS Water Quality Data
Weyerhaeuser New Bern Cellulose Fibers Mill

Site	Sample Dates: 5/14/2001 to 7/26/2011	Temperature; (°C)	pH; Field (units)	Specific Conductance; Field (uS/cm)	Total Dissolved Solids; Total (mg/L)	Ammonia (as N); Total (mg/L)	Nitrate (as N); Total (mg/L)	Sulfate; Total (mg/L)	Chemical Oxygen Demand; Total (mg/L)	Total Phenols; Total (mg/L)	Total Organic Carbon; Total (mg/L)	Cadmium; Total (mg/L)	Chromium; Total (mg/L)	Copper; Total (mg/L)	Nickel; Total (mg/L)	Zinc; Total (mg/L)
NC-2L-GroundwaterClass GA Stds		---	6.5-8.5	---	500	---	10	250	---	---	---	0.002	0.01	1	0.1	1
NC-2L-GW IMAC		---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---
NC-GWP Stds		---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---
L-04	Count	26	28	26	27	15	27	27	15	27	15	27	27	26	26	27
L-04	Maximum	24	6.7	656	401	1.8	0.28	382.3	45	0.008	24.28	0.001	0.02	0.046	0.01	0.032
L-04	Minimum	12	6.1	252	142	0.87	0.04	5	10	0.002	9.36	0.001	0.005	0.01	0.01	0.01
L-04	Average	18.6	6.48	467	263	1.27	0.057	50.4	33.8	0.0023	15.0	0.0010	0.0070	0.012	0.010	0.014
L-04	Std Dev	3.4	0.14	97	76	0.25	0.048	75.2	9.0	0.0012	3.7	0.0000	0.0042	0.007	0.000	0.006
L-04	CV	0.2	0.0	0.2	0.3	0.2	0.8	1.5	0.3	0.5	0.2	0.0	0.6	0.6	0.0	0.4
L-04	CI about Mean	0.0	0.00	1	1	0.00	0.001	0.9	0.1	0.0000	0.1	0.0000	0.0001	0.000	0.000	0.000
L-04	25th Percentile	16.0	6.40	398	208	1.12	0.040	12.4	27.5	0.0020	13.4	0.0010	0.0050	0.010	0.010	0.010
L-04	Median	20.0	6.50	451	239	1.16	0.040	27.2	38.0	0.0020	14.6	0.0010	0.0050	0.010	0.010	0.010
L-04	75th Percentile	21.0	6.53	503	312	1.44	0.045	51.0	39.0	0.0020	15.9	0.0010	0.0060	0.010	0.010	0.017
L-04	IQR	5.0	0.13	105	105	0.33	0.005	38.6	11.5	0.0000	2.5	0.0000	0.0010	0.000	0.000	0.007
L-04	%ND	0%	0%	0%	0%	0%	70%	7%	7%	93%	0%	96%	67%	88%	96%	67%
L-04	%> Guidance Level		32%			27%		4%					19%			
RSDS-LC01	Count	0	1	2	2	2	2	2	2	2	2	2	2	2	2	2
RSDS-LC01	Maximum		7.43	1540	1060	0.06	0.04	341	233	0.002	50.7	0.001	0.005	0.011	0.01	0.01
RSDS-LC01	Minimum			1540	977	0.04	0.04	327.8	98	0.002	40.04	0.001	0.005	0.01	0.01	0.01
RSDS-LC01	Average			1540	1019	0.050	0.040	334	166	0.0020	45.4	0.0010	0.0050	0.011	0.010	0.010
RSDS-LC01	Std Dev			0	59	0.014	0.000	9	95	0.0000	7.5	0.0000	0.0000	0.001	0.000	0.000
RSDS-LC01	CV			0.0	0.1	0.3	0.0	0.0	0.6	0.0	0.2	0.0	0.0	0.1	0.0	0.0
RSDS-LC01	CI about Mean				3	0.001		0	4		0.3			0.000		
RSDS-LC01	25th Percentile			1540	998	0.045	0.040	331	132	0.0020	42.7	0.0010	0.0050	0.010	0.010	0.010
RSDS-LC01	Median			1540	1019	0.050	0.040	334	166	0.0020	45.4	0.0010	0.0050	0.011	0.010	0.010
RSDS-LC01	75th Percentile			1540	1039	0.055	0.040	338	199	0.0020	48.0	0.0010	0.0050	0.011	0.010	0.010
RSDS-LC01	IQR			0	42	0.010	0.000	7	68	0.0000	5.3	0.0000	0.0000	0.000	0.000	0.000
RSDS-LC01	%ND		0%	0%	0%	50%	50%	0%	0%	100%	0%	100%	100%	50%	100%	100%
RSDS-LC01	%> Guidance Level				100%			100%								
All Sites	Count	104	113	106	109	62	110	110	62	110	62	110	110	109	106	110
All Sites	Maximum	35	7.43	1540	1060	1.8	3.61	382.3	233	0.008	57.36	0.002	0.043	0.046	0.01	0.04
All Sites	Minimum	11	4.1	26	5.7	0.04	0.04	5	10	0.002	1	0.001	0.005	0.01	0.01	0.01
All Sites	Average	18.7	5.59	216	137	0.42	0.34	28.8	35.6	0.0022	12.17	0.0010	0.0072	0.011	0.010	0.012
All Sites	Std Dev	3.7	0.72	252	155	0.54	0.61	58.6	36.5	0.0008	13.25	0.0002	0.0056	0.006	0.000	0.005
All Sites	CV	0.2	0.1	1.2	1.1	1.3	1.8	2.0	1.0	0.4	1.1	0.2	0.8	0.5	0.0	0.4
All Sites	CI about Mean	0.0	0.00	2	1	0.00	0.00	0.4	0.3	0.0000	0.11	0.0000	0.0000	0.000	0.000	0.000
All Sites	25th Percentile	15.8	5.00	61	54	0.04	0.04	5.4	14.3	0.0020	1.20	0.0010	0.0050	0.010	0.010	0.010
All Sites	Median	20.0	5.50	132	86	0.10	0.06	10.4	25.5	0.0020	9.67	0.0010	0.0050	0.010	0.010	0.010
All Sites	75th Percentile	21.0	6.20	337	185	0.92	0.31	29.7	40.5	0.0020	20.19	0.0010	0.0050	0.010	0.010	0.010
All Sites	IQR	5.3	1.20	276	131	0.88	0.27	24.3	26.3	0.0000	18.99	0.0000	0.0000	0.000	0.000	0.000
All Sites	%ND	0%	0%	0%	0%	29%	41%	17%	15%	92%	24%	93%	75%	89%	96%	77%
All Sites	%> Guidance Level		82%		2%	6%		3%				3%	12%			

Table 7
Statistics Summary--RSDS Water Quality Data
Weyerhaeuser New Bern Cellulose Fibers Mill

Site	Sample Dates: 5/14/2001 to 7/26/2011	Temperature; (°C)	pH; Field (units)	Specific Conductance; Field (uS/cm)	Total Dissolved Solids; Total (mg/L)	Ammonia (as N); Total (mg/L)	Nitrate (as N); Total (mg/L)	Sulfate; Total (mg/L)	Chemical Oxygen Demand; Total (mg/L)	Total Phenols; Total (mg/L)	Total Organic Carbon; Total (mg/L)	Cadmium; Total (mg/L)	Chromium; Total (mg/L)	Copper; Total (mg/L)	Nickel; Total (mg/L)	Zinc; Total (mg/L)
NC-2L-GroundwaterClass GA Stds		---	6.5-8.5	---	500	---	10	250	---	---	---	0.002	0.01	1	0.1	1
NC-2L-GW IMAC		---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---
NC-GWP Stds		---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---

CV = Coefficient of variation (standard deviation/average)

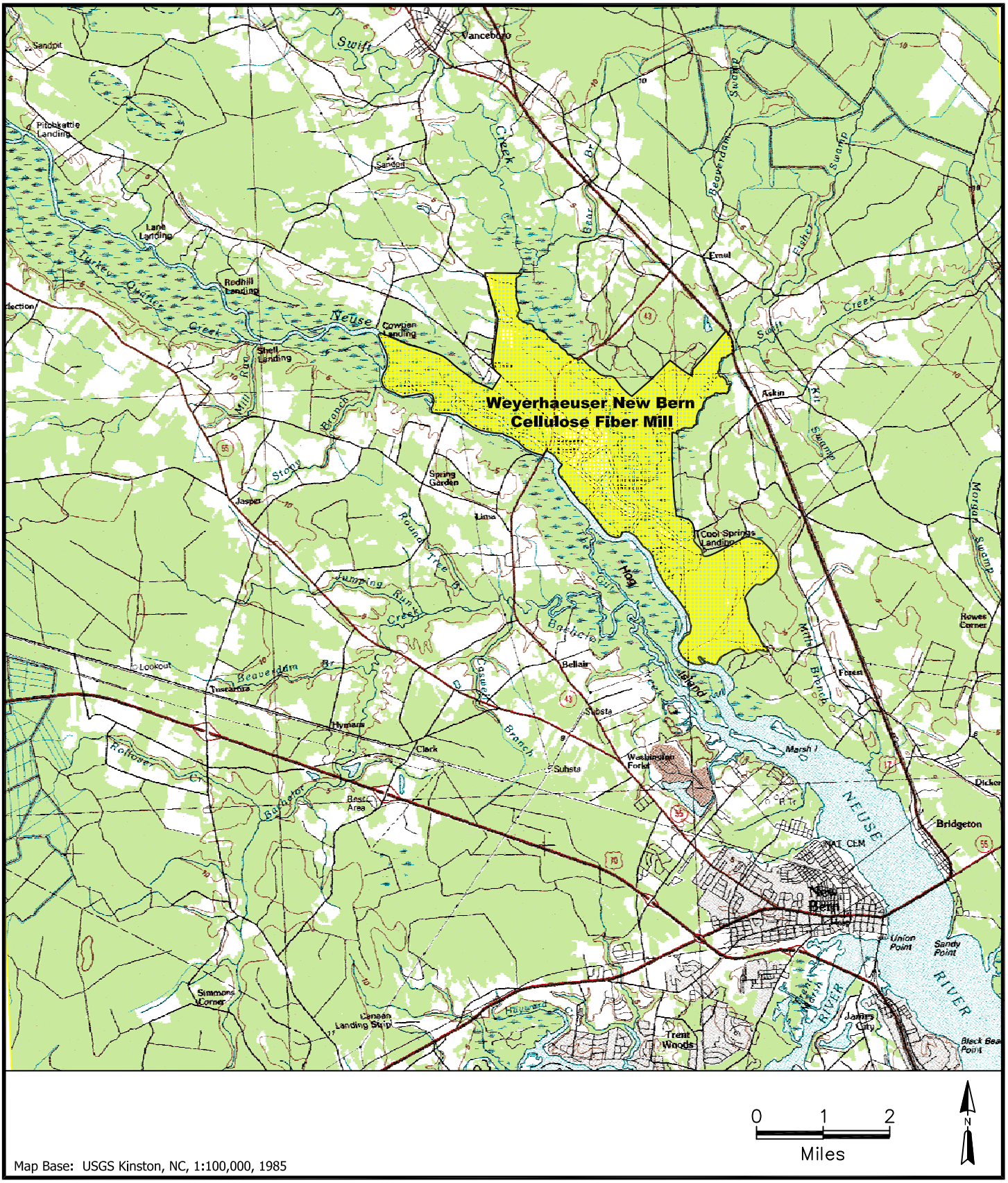
CI = Confidence interval about the mean at the 95% confidence level

IQR = Interquartile range (75th percentile - 25th percentile)

%ND = Percent of non-detect values

%> Guidance Level = Percent of values above regulatory limit (N/A = not available)

FIGURES



Map Base: USGS Kinston, NC, 1:100,000, 1985

PES Environmental, Inc.
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VICINITY MAP
WEYERHAEUSER NEW BERN
CELLULOSE FIBER MILL
NEW BERN, NORTH CAROLINA

FIGURE
1

920.098.01	S92009801R_1557_F1	GMW	4/16/2012
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

PES Environmental, Inc.
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0 1000 2000
FEET

N

Mill Property Map
Weyerhaeuser New Bern Cellulose Fiber Mill
New Bern, North Carolina

FIGURE
2

920.098.01	S92009801R_1557_F2	gmw	4/2012
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

REVIEW BOUNDARY
L-02
L-01
RESIDUAL SURFACE DISPOSAL SYSTEM (RSDS)
L-03
L-04
RSDS-LC01
COMPLIANCE BOUNDARY
MILL PROPERTY BOUNDARY
SWIFT CREEK
HIGHWAY 43
OWS-01
LEACHATE PIPELINE
LEACHATE DITCH
COMPLIANCE BOUNDARY
REVIEW BOUNDARY
OWS-03
CLOSED INDUSTRIAL LANDFILL (ILF)
LC-01
OWS-02
OWD-01
LITTLE SWIFT CREEK

Map Base: USGS Craven County Orthophotos, 2007

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0 300 600
FEET

EXPLANATION
- Shallow Monitoring Well
- Deep Monitoring Well
- Leachate Sampling Point

RSDS, ILF, AND Monitoring Well Locations
Weyerhaeuser New Bern Cellulose Fiber Mill
New Bern, North Carolina

FIGURE
3

920.098.01	S92009801R_1557_F3	gmw	4/2012
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

Figure 4
Swift Creek at Highway 43 Hydrograph and Discharge and Precipitation at New Bern

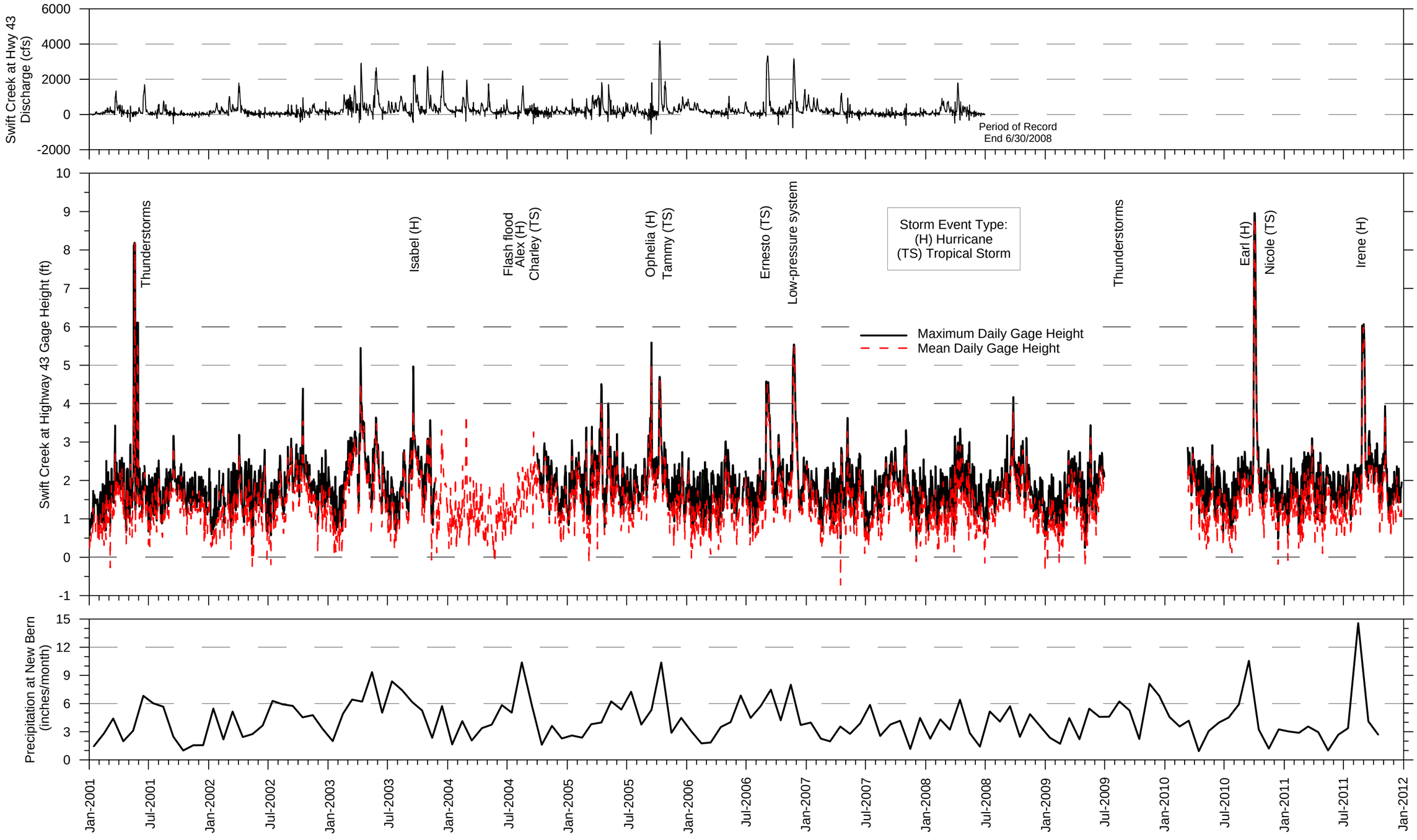


Figure 5. Looking East Toward L-04 (RSDS Cell C) on October 5, 2010

Figure 6. Leachate Pump Area (Sample Site LC-01) on October 5, 2010

Figure 7
Swift Creek Specific Conductance and Discharge
and Precipitation at New Bern

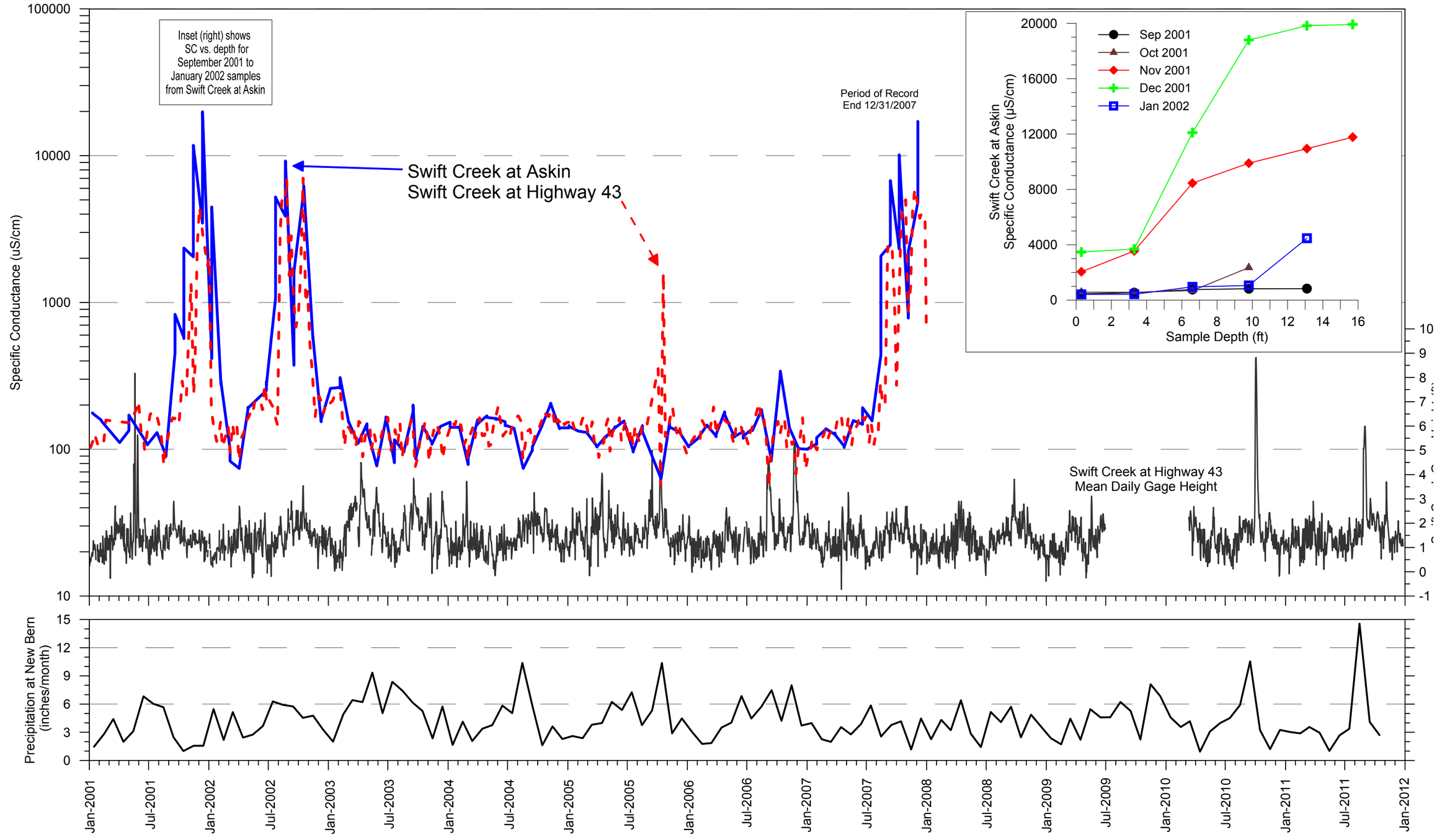
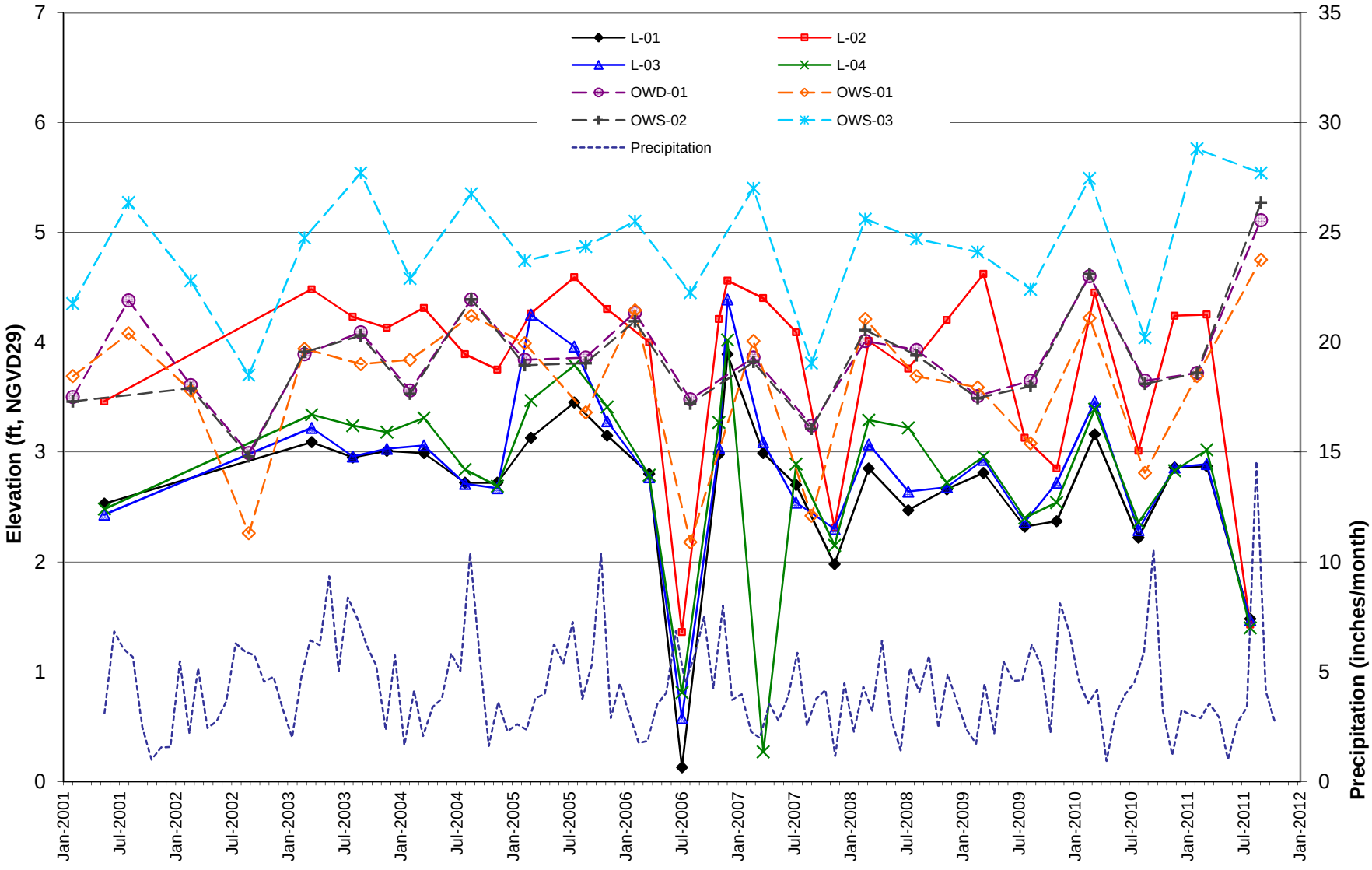
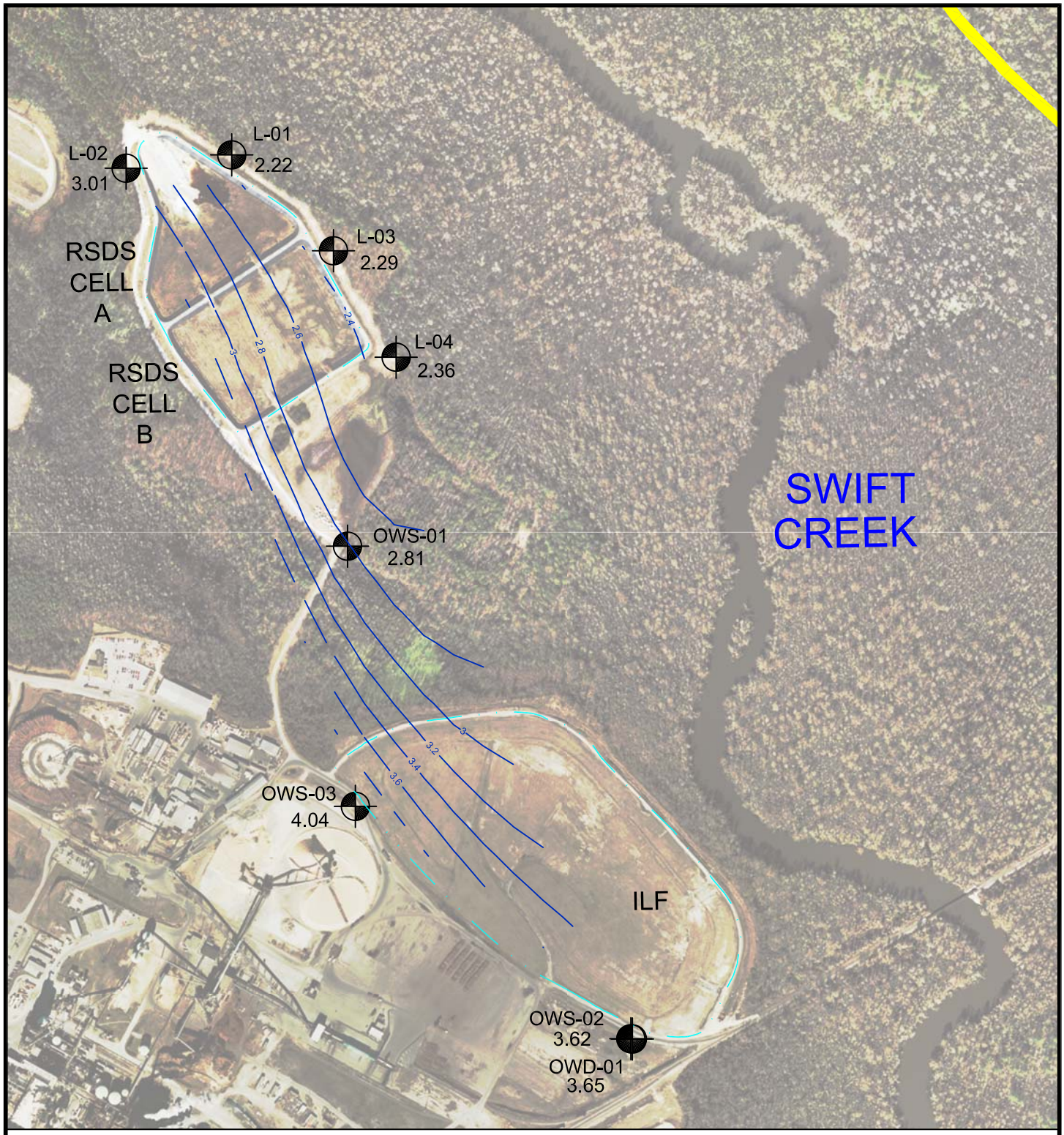


Figure 8
Groundwater Elevation and Precipitation at New Bern
Weyerhaeuser New Bern Cellulose Fiber Mill





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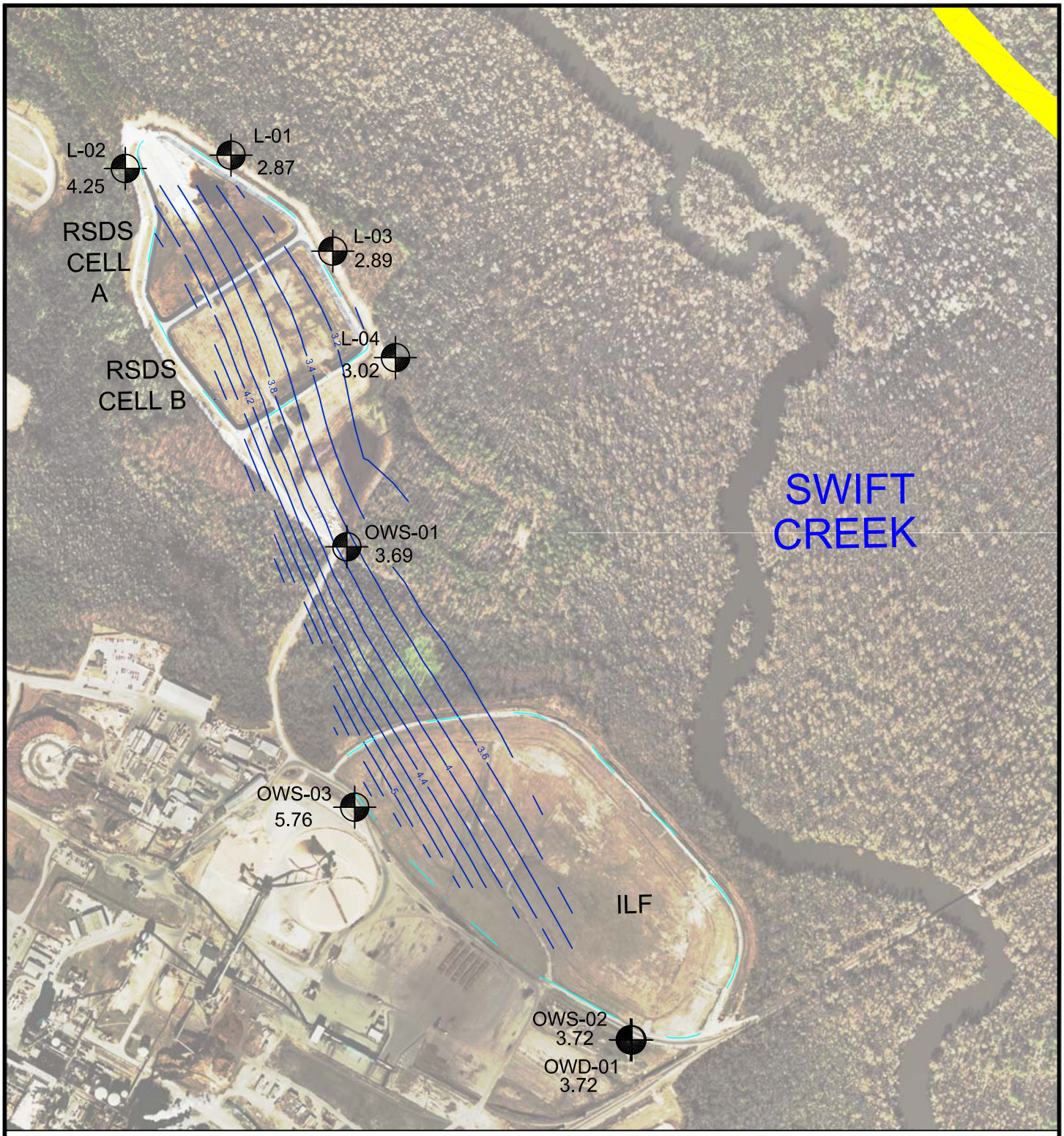
Groundwater Elevation
Summer, 2010
Weyerhaeuser New Bern
Cellulose Fiber Mill

FIGURE
9

920.098.01	S92009801R_1557_F9	*gmw*	4/2012
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



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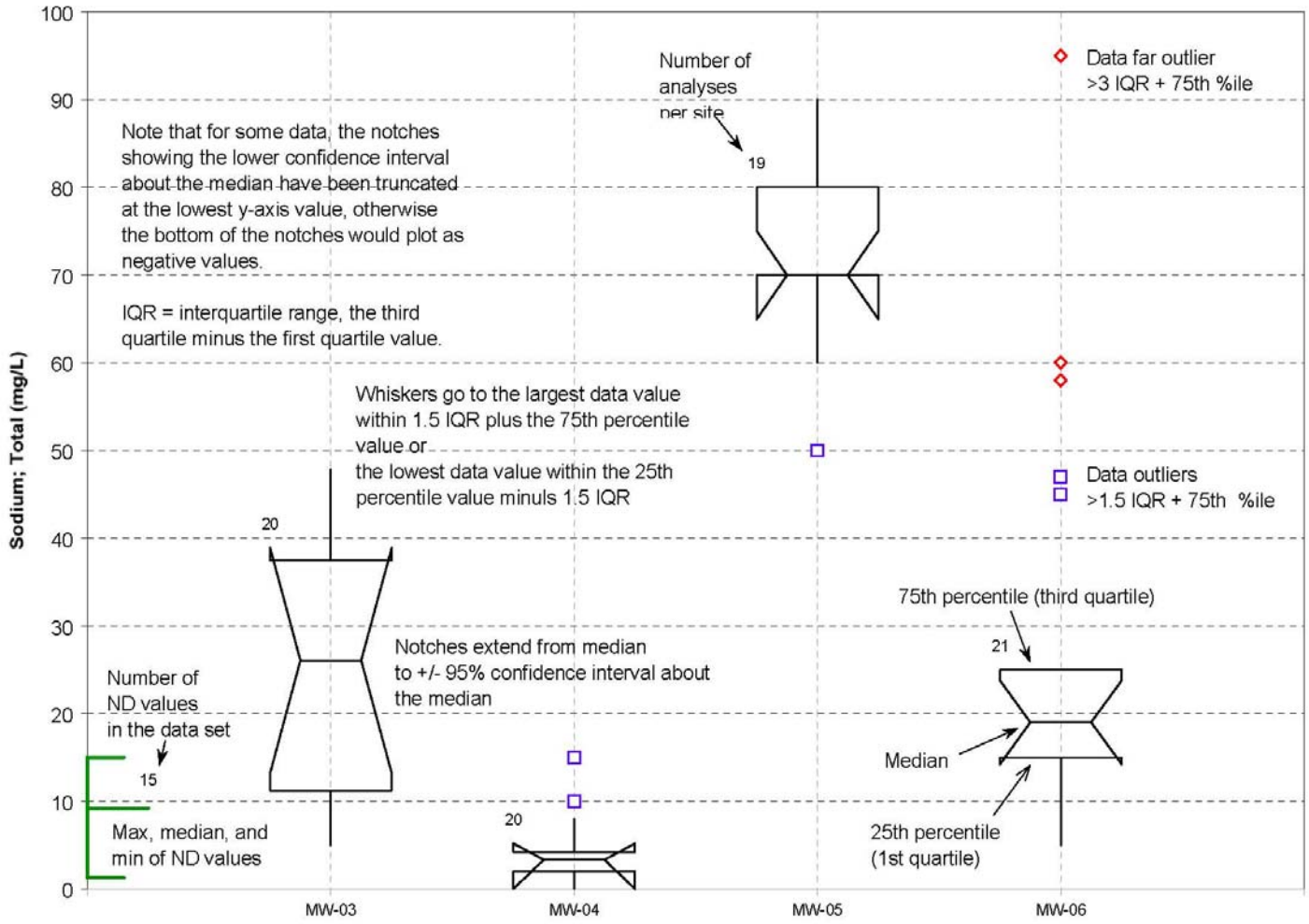
Groundwater Elevation
Winter, 2011
Weyerhaeuser New Bern
Cellulose Fiber Mill

FIGURE
10

920.098.01	S92009801R_1557_F10	*gmw*	4/2012
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

Figure 11
Notched-Box-and-Whisker Plot Explanation



APPENDIX A

WELL LOGS AND GROUNDWATER ELEVATION DATA

Table A-1
Groundwater Elevation Data
Weyerhaeuser New Bern Cellulose Fiber Mill

Site ID	Date	Time	Top of Casing Elevation (ft, NGVD29)	Depth to Water (ft)	Change in Groundwater Elevation (ft)	Groundwater Elevation (ft, NGVD29)	Notes
OWD-01	2/1/2001	00:00	13.11	9.61	NA	3.50	
OWS-01	2/1/2001	00:00	8.04	4.35	NA	3.69	OWS-01 and OWS-02
OWS-02	2/1/2001	00:00	13.11	9.65	NA	3.46	field data transposed.
OWS-03	2/1/2001	00:00	12.52	8.17	NA	4.35	
L-01	5/14/2001	00:00	8.84	6.31	NA	2.53	
L-02	5/14/2001	00:00	8.13	4.67	NA	3.46	
L-03	5/14/2001	00:00	11.96	9.53	NA	2.43	
L-04	5/14/2001	00:00	8.38	5.90	NA	2.48	
OWD-01	8/1/2001	00:00	13.11	8.73	0.88	4.38	
OWS-01	8/1/2001	00:00	8.04	3.96	0.39	4.08	
OWS-02	8/1/2001	00:00	13.11	6.59	3.06	6.52	
OWS-03	8/1/2001	00:00	12.52	7.25	0.92	5.27	
OWD-01	2/19/2002	00:00	13.11	9.50	-0.77	3.61	
OWS-01	2/19/2002	00:00	8.04	4.48	-0.52	3.56	
OWS-02	2/19/2002	00:00	13.11	9.53	-2.94	3.58	
OWS-03	2/19/2002	00:00	12.52	7.96	-0.71	4.56	
OWD-01	8/27/2002	00:00	13.11	10.12	-0.62	2.99	
OWS-01	8/27/2002	00:00	8.04	5.78	-1.30	2.26	
OWS-02	8/27/2002	00:00	13.11	10.15	-0.62	2.96	
OWS-03	8/27/2002	00:00	12.52	8.82	-0.86	3.70	
OWD-01	2/24/2003	00:00	13.11	9.22	0.90	3.89	
OWS-01	2/24/2003	00:00	8.04	4.10	1.68	3.94	
OWS-02	2/24/2003	00:00	13.11	9.20	0.95	3.91	
OWS-03	2/24/2003	00:00	12.52	7.57	1.25	4.95	
L-01	3/19/2003	11:25	8.84	5.75	0.56	3.09	
L-02	3/19/2003	11:10	8.13	3.65	1.02	4.48	
L-03	3/19/2003	11:40	11.96	8.74	0.79	3.22	
L-04	3/19/2003	11:55	8.38	5.04	0.86	3.34	
L-01	7/31/2003	09:45	8.84	5.89	-0.14	2.95	
L-02	7/31/2003	09:55	8.13	3.90	-0.25	4.23	
L-03	7/31/2003	09:30	11.96	9.00	-0.26	2.96	
L-04	7/31/2003	09:25	8.38	5.14	-0.10	3.24	
OWD-01	8/26/2003	00:00	13.11	9.02	0.20	4.09	
OWS-01	8/26/2003	00:00	8.04	4.24	-0.14	3.80	
OWS-02	8/26/2003	00:00	13.11	9.05	0.15	4.06	
OWS-03	8/26/2003	00:00	12.52	6.98	0.59	5.54	
L-01	11/19/2003	09:15	8.84	5.83	0.06	3.01	
L-02	11/19/2003	09:00	8.13	4.00	-0.10	4.13	
L-03	11/19/2003	09:20	11.96	8.93	0.07	3.03	
L-04	11/19/2003	09:35	8.38	5.20	-0.06	3.18	
OWD-01	2/2/2004	00:00	13.11	9.55	-0.53	3.56	
OWS-01	2/2/2004	00:00	8.04	4.20	0.04	3.84	
OWS-02	2/2/2004	00:00	13.11	9.58	-0.53	3.53	
OWS-03	2/2/2004	00:00	12.52	7.94	-0.96	4.58	
L-01	3/18/2004	09:15	8.84	5.85	-0.02	2.99	
L-02	3/18/2004	09:05	8.13	3.82	0.18	4.31	
L-03	3/18/2004	09:20	11.96	8.90	0.03	3.06	
L-04	3/18/2004	09:38	8.38	5.07	0.13	3.31	
L-01	7/30/2004	09:30	8.84	6.12	-0.27	2.72	
L-02	7/30/2004	09:20	8.13	4.24	-0.42	3.89	
L-03	7/30/2004	09:40	11.96	9.25	-0.35	2.71	
L-04	7/30/2004	09:55	8.38	5.54	-0.47	2.84	
OWD-01	8/19/2004	00:00	13.11	8.72	0.83	4.39	
OWS-01	8/19/2004	00:00	8.04	3.80	0.40	4.24	
OWS-02	8/19/2004	00:00	13.11	8.72	0.86	4.39	
OWS-03	8/19/2004	00:00	12.52	7.17	0.77	5.35	
L-01	11/12/2004	09:15	8.84	6.12	0.00	2.72	
L-02	11/12/2004	09:00	8.13	4.38	-0.14	3.75	
L-03	11/12/2004	09:30	11.96	9.29	-0.04	2.67	

Table A-1
Groundwater Elevation Data
Weyerhaeuser New Bern Cellulose Fiber Mill

Site ID	Date	Time	Top of Casing Elevation (ft, NGVD29)	Depth to Water (ft)	Change in Groundwater Elevation (ft)	Groundwater Elevation (ft, NGVD29)	Notes
L-04	11/12/2004	09:45	8.38	5.69	-0.15	2.69	
OWD-01	2/9/2005	00:00	13.11	9.27	-0.55	3.84	
OWS-01	2/9/2005	00:00	8.04	4.05	-0.25	3.99	
OWS-02	2/9/2005	00:00	13.11	9.32	-0.60	3.79	
OWS-03	2/9/2005	00:00	12.52	7.78	-0.61	4.74	
L-01	3/1/2005	10:00	8.84	5.71	0.41	3.13	
L-02	3/1/2005	10:15	8.13	3.87	0.51	4.26	
L-03	3/1/2005	09:45	11.96	7.71	1.58	4.25	
L-04	3/1/2005	09:35	8.38	4.91	0.78	3.47	
L-01	7/20/2005	09:25	8.84	5.39	0.32	3.45	
L-02	7/20/2005	09:20	8.13	3.54	0.33	4.59	
L-03	7/20/2005	09:35	11.96	8.00	-0.29	3.96	
L-04	7/20/2005	09:50	8.38	4.59	0.32	3.79	
OWD-01	8/26/2005	00:00	13.11	9.25	0.02	3.86	
OWS-01	8/26/2005	00:00	8.04	4.68	-0.63	3.36	
OWS-02	8/26/2005	00:00	13.11	9.30	0.02	3.81	
OWS-03	8/26/2005	00:00	12.52	7.65	0.13	4.87	
L-01	11/4/2005	10:45	8.84	5.69	-0.30	3.15	
L-02	11/4/2005	11:20	8.13	3.83	-0.29	4.30	
L-03	11/4/2005	10:50	11.96	8.68	-0.68	3.28	
L-04	11/4/2005	11:05	8.38	4.97	-0.38	3.41	
OWD-01	2/2/2006	00:00	13.11	8.84	0.41	4.27	
OWS-01	2/2/2006	00:00	8.04	3.75	0.93	4.29	
OWS-02	2/2/2006	00:00	13.11	8.92	0.38	4.19	
OWS-03	2/2/2006	00:00	12.52	7.42	0.23	5.10	
L-01	3/20/2006	10:15	8.84	6.04	-0.35	2.80	
L-02	3/20/2006	10:05	8.13	4.13	-0.30	4.00	
L-03	3/20/2006	10:30	11.96	9.19	-0.51	2.77	
L-04	3/20/2006	10:50	8.38	5.59	-0.62	2.79	
L-01	7/5/2006	10:55	8.84	8.71	-2.67	0.13	
L-02	7/5/2006	10:45	8.13	6.77	-2.64	1.36	
L-03	7/5/2006	11:00	11.96	11.38	-2.19	0.58	
L-04	7/5/2006	11:15	8.38	7.57	-1.98	0.81	
OWD-01	8/1/2006	00:00	13.11	9.63	-0.79	3.48	
OWS-01	8/1/2006	00:00	8.04	5.86	-2.11	2.18	
OWS-02	8/1/2006	00:00	13.11	9.67	-0.75	3.44	
OWS-03	8/1/2006	00:00	12.52	8.07	-0.65	4.45	
L-01	11/2/2006	09:20	8.84	5.86	2.85	2.98	
L-02	11/2/2006	08:55	8.13	3.92	2.85	4.21	
L-03	11/2/2006	09:45	11.96	8.92	2.46	3.04	
L-04	11/2/2006	10:05	8.38	5.11	2.46	3.27	
L-01	11/30/2006	13:25	8.84	4.95	0.91	3.89	
L-02	11/30/2006	13:10	8.13	3.57	0.35	4.56	
L-03	11/30/2006	13:40	11.96	7.57	1.35	4.39	
L-04	11/30/2006	13:55	8.38	4.36	0.75	4.02	
OWD-01	2/22/2007	00:00	13.11	9.25	0.38	3.86	
OWS-01	2/22/2007	00:00	8.04	4.03	1.83	4.01	
OWS-02	2/22/2007	00:00	13.11	9.29	0.38	3.82	
OWS-03	2/22/2007	00:00	12.52	7.12	0.95	5.40	
L-01	3/26/2007	10:25	8.84	5.85	-0.90	2.99	
L-02	3/26/2007	09:55	8.13	3.73	-0.16	4.40	
L-03	3/26/2007	10:50	11.96	8.87	-1.30	3.09	
L-04	3/26/2007	11:20	8.38	8.11	-3.75	0.27	
L-01	7/11/2007	09:45	8.84	6.14	-0.29	2.70	
L-02	7/11/2007	09:20	8.13	4.04	-0.31	4.09	
L-03	7/11/2007	10:15	11.96	9.42	-0.55	2.54	
L-04	7/11/2007	10:35	8.38	5.49	2.62	2.89	
OWD-01	8/30/2007	00:00	13.11	9.87	-0.62	3.24	
OWS-01	8/30/2007	00:00	8.04	5.62	-1.59	2.42	

Table A-1
Groundwater Elevation Data
Weyerhaeuser New Bern Cellulose Fiber Mill

Site ID	Date	Time	Top of Casing Elevation (ft, NGVD29)	Depth to Water (ft)	Change in Groundwater Elevation (ft)	Groundwater Elevation (ft, NGVD29)	Notes
OWS-02	8/30/2007	00:00	13.11	9.90	-0.61	3.21	
OWS-03	8/30/2007	00:00	12.52	8.71	-1.59	3.81	
L-01	11/13/2007	09:35	8.84	6.86	-0.72	1.98	
L-02	11/13/2007	09:10	8.13	5.82	-1.78	2.31	
L-03	11/13/2007	09:55	11.96	9.66	-0.24	2.30	
L-04	11/13/2007	10:15	8.38	6.23	-0.74	2.15	
OWD-01	2/21/2008	00:00	13.11	9.10	0.77	4.01	
OWS-01	2/21/2008	00:00	8.04	3.83	1.79	4.21	
OWS-02	2/21/2008	00:00	13.11	9.00	0.90	4.11	
OWS-03	2/21/2008	00:00	12.52	7.40	1.31	5.12	
L-01	3/3/2008	10:30	8.84	5.99	0.87	2.85	
L-02	3/3/2008	10:10	8.13	4.12	1.70	4.01	
L-03	3/3/2008	10:50	11.96	8.89	0.77	3.07	
L-04	3/3/2008	11:15	8.38	5.09	1.14	3.29	
L-01	7/10/2008	09:50	8.84	6.37	-0.38	2.47	
L-02	7/10/2008	09:30	8.13	4.37	-0.25	3.76	
L-03	7/10/2008	10:05	11.96	9.32	-0.43	2.64	
L-04	7/10/2008	10:20	8.38	5.16	-0.07	3.22	
OWD-01	8/5/2008	00:00	13.11	9.18	-0.08	3.93	
OWS-01	8/5/2008	00:00	8.04	4.35	-0.52	3.69	
OWS-02	8/5/2008	00:00	13.11	9.23	-0.23	3.88	
OWS-03	8/5/2008	00:00	12.52	7.58	-0.18	4.94	
L-01	11/12/2008	00:00	8.84	6.18	0.19	2.66	
L-02	11/12/2008	00:00	8.13	3.93	0.44	4.20	
L-03	11/12/2008	00:00	11.96	9.28	0.04	2.68	
L-04	11/12/2008	00:00	8.38	5.66	-0.50	2.72	
OWD-01	2/20/2009	00:00	13.11	9.60	-0.42	3.51	
OWS-01	2/20/2009	00:00	8.04	4.45	-0.10	3.59	
OWS-02	2/20/2009	00:00	13.11	9.62	-0.39	3.49	
OWS-03	2/20/2009	00:00	12.52	7.70	-0.12	4.82	
L-01	3/11/2009	09:15	8.84	6.03	0.15	2.81	
L-02	3/11/2009	08:55	8.13	3.51	0.42	4.62	
L-03	3/11/2009	09:30	11.96	9.03	0.25	2.93	
L-04	3/11/2009	09:50	8.38	5.42	0.24	2.96	
L-01	7/23/2009	10:45	8.84	6.52	-0.49	2.32	
L-02	7/23/2009	11:05	8.13	5.00	-1.49	3.13	
L-03	7/23/2009	10:30	11.96	9.60	-0.57	2.36	
L-04	7/23/2009	10:10	8.38	5.98	-0.56	2.40	
OWD-01	8/11/2009	00:00	13.11	9.46	0.14	3.65	
OWS-01	8/11/2009	00:00	8.04	4.96	-0.51	3.08	
OWS-02	8/11/2009	00:00	13.11	9.51	0.11	3.60	
OWS-03	8/11/2009	00:00	12.52	8.04	-0.34	4.48	
L-01	11/4/2009	00:00	8.84	6.47	0.05	2.37	
L-02	11/4/2009	00:00	8.13	5.28	-0.28	2.85	
L-03	11/4/2009	00:00	11.96	9.24	0.36	2.72	
L-04	11/4/2009	00:00	8.38	5.84	0.14	2.54	
OWD-01	2/19/2010	00:00	13.11	8.51	0.95	4.60	OWS-01 and OWS-03
OWS-01	2/19/2010	00:00	8.04	3.82	1.14	4.22	field data transposed.
OWS-02	2/19/2010	00:00	13.11	8.49	1.02	4.62	
OWS-03	2/19/2010	00:00	12.52	7.03	1.01	5.49	
L-01	3/8/2010	00:00	8.84	5.68	0.79	3.16	
L-02	3/8/2010	00:00	8.13	3.68	1.60	4.45	
L-03	3/8/2010	00:00	11.96	8.50	0.74	3.46	
L-04	3/8/2010	00:00	8.38	4.99	0.85	3.39	
L-01	7/28/2010	00:00	8.84	6.62	-0.94	2.22	
L-02	7/28/2010	00:00	8.13	5.12	-1.44	3.01	
L-03	7/28/2010	00:00	11.96	9.67	-1.17	2.29	
L-04	7/28/2010	00:00	8.38	6.02	-1.03	2.36	
OWD-01	8/18/2010	00:00	13.11	9.46	-0.95	3.65	

Table A-1
Groundwater Elevation Data
Weyerhaeuser New Bern Cellulose Fiber Mill

Site ID	Date	Time	Top of Casing Elevation (ft, NGVD29)	Depth to Water (ft)	Change in Groundwater Elevation (ft)	Groundwater Elevation (ft, NGVD29)	Notes
OWS-01	8/18/2010	00:00	8.04	5.23	-1.41	2.81	
OWS-02	8/18/2010	00:00	13.11	9.49	-1.00	3.62	
OWS-03	8/18/2010	00:00	12.52	8.48	-1.45	4.04	
L-01	11/22/2010	00:00	8.84	5.98	0.64	2.86	
L-02	11/22/2010	00:00	8.13	3.89	1.23	4.24	
L-03	11/22/2010	00:00	11.96	9.10	0.57	2.86	
L-04	11/22/2010	00:00	8.38	5.55	0.47	2.83	
OWD-01	2/3/2011	09:35	13.11	9.39	0.07	3.72	
OWS-01	2/3/2011	10:45	8.04	4.35	0.88	3.69	
OWS-02	2/3/2011	09:35	13.11	9.39	0.10	3.72	
OWS-03	2/3/2011	10:23	12.52	6.76	1.72	5.76	
L-01	3/7/2011	09:35	8.84	5.97	0.01	2.87	
L-02	3/7/2011	09:20	8.13	3.88	0.01	4.25	
L-03	3/7/2011	09:55	11.96	9.07	0.03	2.89	
L-04	3/7/2011	10:20	8.38	5.36	0.19	3.02	
L-01	7/26/2011	08:30	8.84	7.36	-1.39	1.48	
L-02	7/26/2011	08:40	8.13	6.70	-2.82	1.43	
L-03	7/26/2011	08:20	11.96	10.49	-1.42	1.47	
L-04	7/26/2011	08:10	8.38	6.98	-1.62	1.40	
OWD-01	8/30/2011	09:58	13.11	8.00	1.39	5.11	
OWS-01	8/30/2011	11:28	8.04	3.29	1.06	4.75	
OWS-02	8/30/2011	09:38	13.11	7.84	1.55	5.27	
OWS-03	8/30/2011	10:39	12.52	6.98	-0.22	5.54	

Datum: Elevations in feet relative to National Geodetic Vertical Datum of 1929 (NGVD29).
Change in Groundwater Elevation: Difference between two consecutive elevation measurements
All depth to water measurements provided by Environment 1, Inc.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH,N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. _____ Serial No. _____
Lat. _____ Long. _____ Pc _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD OWS-1

DRILLING CONTRACTOR Westinghouse
DRILLER REGISTRATION NUMBER 412

STATE WELL CONSTRUCTION PERMIT NUMBER: Approved under NCDHR Landfill No. 25-02

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: New Bern, North Carolina
Rt. 43
(Road, Community, or Subdivision and Lot No.)

County: Craven

2. OWNER Weyerhaeuser Company
ADDRESS P.O. Box1391 (Street or Route No.)
New Bern (City or Town) NC (State) 28560 (Zip Code)

3. DATE DRILLED 6/28/89 USE OF WELL Monitor
4. TOTAL DEPTH 16.0 ft CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 4.1 FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS 2.6 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): _____ METHOD OF TEST _____
8. WATER ZONES (depth): _____
9. CHLORINATION: Type _____ Amount _____

DRILLING LOG

Depth From	Depth To	Formation Description
0.0	6.0	Firm Brown Slightly Clayey Silty SAND
6.0	7.0	Gray Dense Slightly Sandy CLAY
7.0	16.0	Loose Tan Medium SAND

If additional space is needed use back of form.

10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	-1.5	+2.6	2.0"	Sch 40	PVC

11. GROUT:

	Depth From	Depth To	Material	Method
	-1.0	+0.5	Bentonite ~~Type 1 Portland~~	Pour

12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	-11.5	-1.5	2.0 in.	0.01 in.	PVC

13. GRAVEL PACK:

	Depth From	Depth To	Size	Material
	-11.5	-1.0	Fine	Sand

14. REMARKS: _____

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)

See Map On Back

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas M. Nelson 7/14/89
SIGNATURE OF CONTRACTOR OR AGENT DATE

Submit original to Division of Environmental Management and copy to well owner.

GW-1 Revised 11/84

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH,N.C. 27611, PHONE (919) 733-5083

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Lat. _____ Long. _____ Pc _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD OWD-1

DRILLING CONTRACTOR Westinghouse/S&ME
DRILLER REGISTRATION NUMBER 412

STATE WELL CONSTRUCTION PERMIT NUMBER: Approved under NCDHR Landfill No. 25-02

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: New Bern, North CArolina
Rt. 43
(Road, Community, or Subdivision and Lot No.)

County: Craven

2. OWNER Weyerhaeuser Company
ADDRESS P.o. Box 1391
(Street or Route No.)
New Bern NC 28560
City or Town State Zip Code

3. DATE DRILLED 6/29/89 USE OF WELL Monitor
4. TOTAL DEPTH 27.0 ft CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 9.01 FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS 2.4 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): _____ METHOD OF TEST _____
8. WATER ZONES (depth): _____
9. CHLORINATION: Type _____ Amount _____
10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	-19.5	+2.4	2.0"	Sch 40	PVC

11. GROUT:

	Depth From	Depth To	Material	Method
	-17.0	+0.5	Bentonite ~~Type 1 Portland~~	Pump

12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	-24.5	-19.5	2.0 in.	0.01 in.	PVC

13. GRAVEL PACK:

	Depth From	Depth To	Size	Material
	-24.5	-17.0	Fine	Sand

14. REMARKS: _____

Depth From	Depth To	DRILLING LOG Formation Description
0.0	6.0	Firm Slightly Silty Brow SAND with Fill Material
6.0	14.0	Loose Tan Slightly Silty to Medium SAND
14.0	24.0	Loose Brownish Red Sligh Silty to Medium SAND
24.0	27.0	Firm Light gray Slightly Silty Calcareous SAND

If additional space is needed use back of form.

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)

See Map on Back

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas M. Nelson 7/14/89
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH,N.C. 27611, PHONE (919) 733-5083

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Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD

OWS-2

DRILLING CONTRACTOR Westinghouse/S&ME

DRILLER REGISTRATION NUMBER 412

STATE WELL CONSTRUCTION PERMIT NUMBER: Approved under ~~NCDHR Landfill No. 25-02~~

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: New Bern, North CArolina
Rt. 43
(Road, Community, or Subdivision and Lot No.)

County: Craven

2. OWNER Weyerhaeuser Company

ADDRESS P.O. Box 1391
(Street or Route No.)

New Bern — City or Town; NC — State; 28560 — Zip Code

3. DATE DRILLED 6/29/89 USE OF WELL Monitor

4. TOTAL DEPTH 14.0 CUTTINGS COLLECTED ☐ Yes ☒ No

5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No

6. STATIC WATER LEVEL: 8.90 FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS 2.3 FT. ABOVE LAND SURFACE.

7. YIELD (gpm): _____ METHOD OF TEST _____

8. WATER ZONES (depth): _____

9. CHLORINATION: Type _____ Amount _____

10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	-2.5	+2.5	2.0"	Sch 40	PVC

11. GROUT:

	Depth From	Depth To	Material	Method
	-1.8	+0.5	Bentonite ~~Type 1 Portland~~	Pour

12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	-12.5	-2.5	2.0 in.	0.01 in.	PVC
			in.	in.	
			in.	in.	

13. GRAVEL PACK:

	Depth From	Depth To	Size	Material
	-12.5	-1.8	Fine	Sand

14. REMARKS: _____

Depth From	Depth To	DRILLING LOG Formation Description
0.0	6.0	Firm Silty Brown SAND with Fill Material
6.0	14.0	Loose Tan Slightly Silty to Medium Sand

If additional space is needed use back of form.

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)

See Map On Back

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas M. Nelson — SIGNATURE OF CONTRACTOR OR AGENT
7/14/89 — DATE

GW-1 Revised 11/84

Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. _____ Serial No. _____
Lat. _____ Long. _____ Pc _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD OWS-3

DRILLING CONTRACTOR Westinghouse/S&ME
DRILLER REGISTRATION NUMBER 412

STATE WELL CONSTRUCTION PERMIT NUMBER: Approved under ~~NCDHR Landfill No. 25-02~~

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: New Bern, North Carolina County: Craven
(Road, Community, or Subdivision and Lot No.)

2. OWNER Weyerhaeuser Company
ADDRESS P.O. Box 1391 (Street or Route No.)
New Bern (City or Town) NC (State) 28560 (Zip Code)

3. DATE DRILLED 6/30/89 USE OF WELL Monitor
4. TOTAL DEPTH 14.5 ft CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 7.80 FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS 2.3 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): _____ METHOD OF TEST _____
8. WATER ZONES (depth): _____
9. CHLORINATION: Type _____ Amount _____
10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	-4.0	+2.3	2.0	Sch 40	PVC

11. GROUT:

	Depth From	Depth To	Material	Method
	-3.0	+0.5	Bentonite ~~Type 1 Portland~~	Pour

12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	-14.0	-4.0	2.0 in.	0.01 in.	PVC
			in.	in.	
			in.	in.	

13. GRAVEL PACK:

	Depth From	Depth To	Size	Material
	-14.0	-3.0	Fine	Sand

14. REMARKS: _____

DRILLING LOG

Depth From	Depth To	Formation Description
0.0	7.0	Firm Brown Slightly Silt SAND
7.0	9.0	Loose Dark Brown Silty Sand
9.0	10.5	Greenish Gray Sandy CLAY
10.5	14.5	Loose Gray Slightly Silt SAND

If additional space is needed use back of form.

LOCATION SKETCH
(Show direction and distance from at least two State Roads, or other map reference points)

See Map On Back

I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas M. Nelson 7/14/89
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH,N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. _____ Serial No. _____
Lat. _____ Long. _____ Pc _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD L-1

DRILLING CONTRACTOR Westinghouse

DRILLER REGISTRATION NUMBER 412

STATE WELL CONSTRUCTION PERMIT NUMBER: 24-0104-WM-0136

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: New Bern, North Carolina
Rt. 43
(Road, Community, or Subdivision and Lot No.)
County: Craven

2. OWNER Weyerhaeuser Company
ADDRESS P.O. Box 1391 (Street or Route No.)
New Bern, North Carolina 28560
City or Town State Zip Code

3. DATE DRILLED 7/6/89 USE OF WELL Monitor

4. TOTAL DEPTH 15.0 CUTTINGS COLLECTED ☐ Yes ☒ No

5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No

6. STATIC WATER LEVEL: 6.14 FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS 2.5 FT. ABOVE LAND SURFACE.

7. YIELD (gpm): _____ METHOD OF TEST _____

8. WATER ZONES (depth): _____

9. CHLORINATION: Type _____ Amount _____

10. CASING:

	Depth		Diameter	Wall Thickness or Weight/Ft.	Material
From -1.5	To +2.5	Ft.	2.0''	Sch 40	PVC
From	To	Ft.			
From	To	Ft.			

11. GROUT:

	Depth		Material	Method
From -1.0	To +0.5	Ft.	Bentonite ~~Type 1Portland~~	Pour
From	To	Ft.		

12. SCREEN:

	Depth		Diameter	Slot Size	Material
From -11.5	To -1.5	Ft.	2.0 in.	0.01 in.	PVC
From	To	Ft.	in.	in.	
From	To	Ft.	in.	in.	

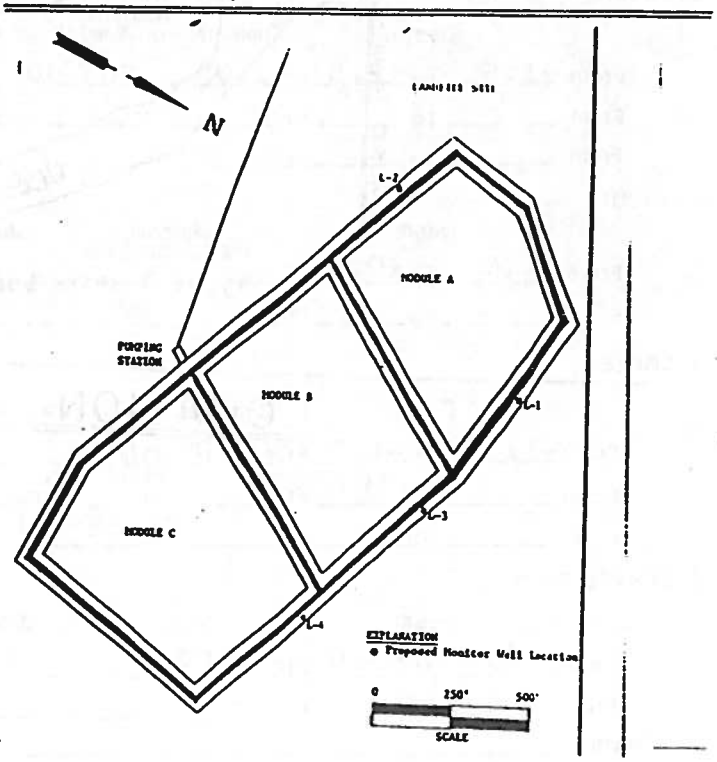
13. GRAVEL PACK:

	Depth		Size	Material
From -11.5	To -1.0	Ft.	Fine	Sand
From	To	Ft.		

14. REMARKS: _____

Depth From	Depth To	DRILLING LOG Formation Description
0.0	1.0	Fine Brown Organic Silty SAND
1.0	10.0	Brown Gray Silty Fine to Medium SAND
10.0	15.0	Tan Silty Medium to Coars SAND

If additional space is needed use back of form.



I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas M. Nelson 7/14/89
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84

Submit original to Division of Environmental Management and copy to well owner.

NORTH CAROLINA DEPARTMENT OF NATURAL RESOURCES AND COMMUNITY DEVELOPMENT
DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH,N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. _____ Serial No. _____
Lat. _____ Long. _____ Pc _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD L-2

DRILLING CONTRACTOR Westinghouse
DRILLER REGISTRATION NUMBER 412

STATE WELL CONSTRUCTION PERMIT NUMBER: 24-0104-WM-0136

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: New Bern, North Carolina
Rt. 43
(Road, Community, or Subdivision and Lot No.)
County: Craven

2. OWNER Weyerhaeuser Company
ADDRESS P.O. Box 1391
(Street or Route No.)
New Bern NC 28560
City or Town State Zip Code

3. DATE DRILLED 7/6/89 USE OF WELL Monitor
4. TOTAL DEPTH 15.0 ft. CUTTINGS COLLECTED ☐ Yes ☒ No
5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No
6. STATIC WATER LEVEL: 4.66 FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS 2.5 FT. ABOVE LAND SURFACE.
7. YIELD (gpm): _____ METHOD OF TEST _____
8. WATER ZONES (depth): _____
9. CHLORINATION: Type _____ Amount _____
10. CASING:

	Depth		Diameter	Wall Thickness or Weight/Ft.	Material
From	-1.5	To +2.5 Ft.	2.0"	Sch 40	PVC
From		To Ft.			
From		To Ft.			

11. GROUT:

	Depth		Material	Method
From	-1.0	To +0.5 Ft.	Bentonite ~~Type 1 Portland~~	pour
From		To Ft.		

12. SCREEN:

	Depth		Diameter	Slot Size	Material
From	-11.5	To -1.5 Ft.	2.0 in.	0.01 in.	PVC
From		To Ft.	in.	in.	
From		To Ft.	in.	in.	

13. GRAVEL PACK:

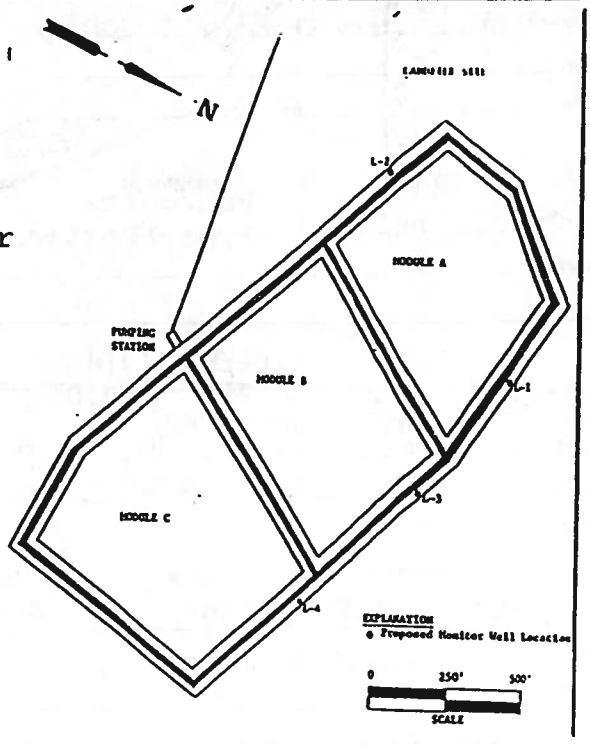
	Depth		Size	Material
From	-11.5	To -1.0 Ft.	Fine	Sand
From		To Ft.		

14. REMARKS: _____

DRILLING LOG

Depth From	Depth To	Formation Description
0.0	1.0	Brown Organic Silty Sand
1.0	2.0	Blue Gray Sandy CLAY
2.0	11.0	Blue Gray Silty Fine SAND
11.0	15.0	Tan Silty Medium to Coarse SAND

If additional space is needed use back of form.



I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas M. Allen 7/14/89
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84
Submit original to Division of Environmental Management and copy to well owner.

DIVISION OF ENVIRONMENTAL MANAGEMENT - GROUNDWATER SECTION
P.O. BOX 27687 - RALEIGH,N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. _____ Serial No. _____
Lat. _____ Long. _____ Pc _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD L-3

DRILLING CONTRACTOR Westinghouse

DRILLER REGISTRATION NUMBER 412

STATE WELL CONSTRUCTION PERMIT NUMBER: 24-0104-WM-0136

1. WELL LOCATION: (Show sketch of the location below)

Nearest Town: New Bern, North Carolina
Rt. 43
(Road, Community, or Subdivision and Lot No.)

County: Craven

2. OWNER Weyerhaeuser Company

ADDRESS P.O. Box 1391
(Street or Route No.)

New Bern | NC | 28560
City or Town | State | Zip Code

3. DATE DRILLED 7/6/89 USE OF WELL Monitor

4. TOTAL DEPTH 15.0 ft CUTTINGS COLLECTED ☐ Yes ☒ No

5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No

6. STATIC WATER LEVEL: 9.50 FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS 2.5 FT. ABOVE LAND SURFACE.

7. YIELD (gpm): _____ METHOD OF TEST _____

8. WATER ZONES (depth): _____

9. CHLORINATION: Type _____ Amount _____

10. CASING:

	Depth		Diameter	Wall Thickness or Weight/Ft.	Material
From -1.5	To +2.5	Ft.	2.0"	Sch 40	PVC
From	To	Ft.			
From	To	Ft.			

11. GROUT:

	Depth		Material	Method
From -1.0	To +0.5	Ft.	Bentonite ~~Type 1 Portland~~	Pour
From	To	Ft.		

12. SCREEN:

	Depth		Diameter	Slot Size	Material
From -11.5	To -1.5	Ft.	2.0" in.	0.01 in.	PVC
From	To	Ft.	in.	in.	
From	To	Ft.	in.	in.	

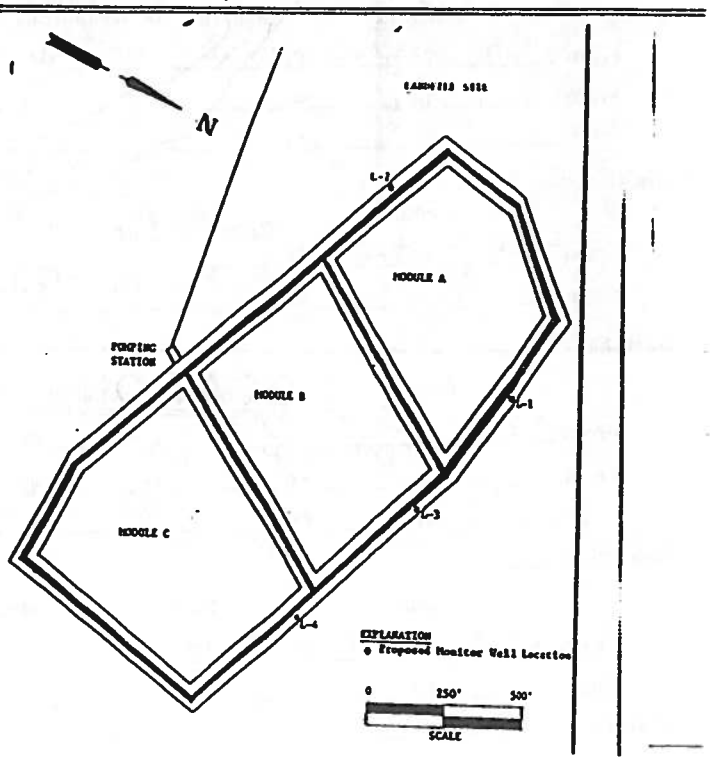
13. GRAVEL PACK:

	Depth		Size	Material
From -11.5	To -1.0	Ft.	Fine	Sand
From	To	Ft.		

14. REMARKS _____

Depth From	Depth To	DRILLING LOG Formation Description
0.0	1.0	Brown Silty Fine SAND
1.0	15.0	Tan Slightly Silty to Medium SAND

If additional space is needed use back of form.



I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas M. Nelson 7/14/89
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 1/84

Submit original to Division of Environmental Management and copy to well owner.

DIVISION OF ENVIRONMENTAL MANAGEMENT – GROUNDWATER SECTION
P.O. BOX 27687 – RALEIGH, N.C. 27611, PHONE (919) 733-5083

FOR OFFICE USE ONLY
Quad. No. _____ Serial No. _____
Lat. _____ Long. _____ Pc _____
Minor Basin _____
Basin Code _____
Header Ent. _____ GW-1 Ent. _____

WELL CONSTRUCTION RECORD L-4

DRILLING CONTRACTOR Westinghouse

DRILLER REGISTRATION NUMBER 412

STATE WELL CONSTRUCTION PERMIT NUMBER: 24-0104-wm-0136

1. WELL LOCATION: (Show sketch of the location below)
Nearest Town: New Bern, North Carolina
Rt. 43
(Road, Community, or Subdivision and Lot No.)

County: _____

2. OWNER Weyerhaeuser Company
ADDRESS P.O. Box 1391 (Street or Route No.)
New Bern (City or Town) NC (State) 28560 (Zip Code)

3. DATE DRILLED 7/5/89 USE OF WELL Monitor

4. TOTAL DEPTH 15.0 ft. CUTTINGS COLLECTED ☐ Yes ☒ No

5. DOES WELL REPLACE EXISTING WELL? ☐ Yes ☒ No

6. STATIC WATER LEVEL 5.60 FT. ☐ above ☒ below TOP OF CASING,
TOP OF CASING IS 2.5 FT. ABOVE LAND SURFACE.

7. YIELD (gpm): _____ METHOD OF TEST _____

8. WATER ZONES (depth): _____

9. CHLORINATION: Type _____ Amount _____

10. CASING:

	Depth From	Depth To	Diameter	Wall Thickness or Weight/Ft.	Material
	-2.5	+2.5	2.0	Sch 40	PVC

11. GROUT:

	Depth From	Depth To	Material	Method
	-2.0	+.5	Bentonite	Pour
			Type 1 Portland	

12. SCREEN:

	Depth From	Depth To	Diameter	Slot Size	Material
	-12.5	-2.5	2.0 in.	.01 in.	PVC
			in.	in.	
			in.	in.	

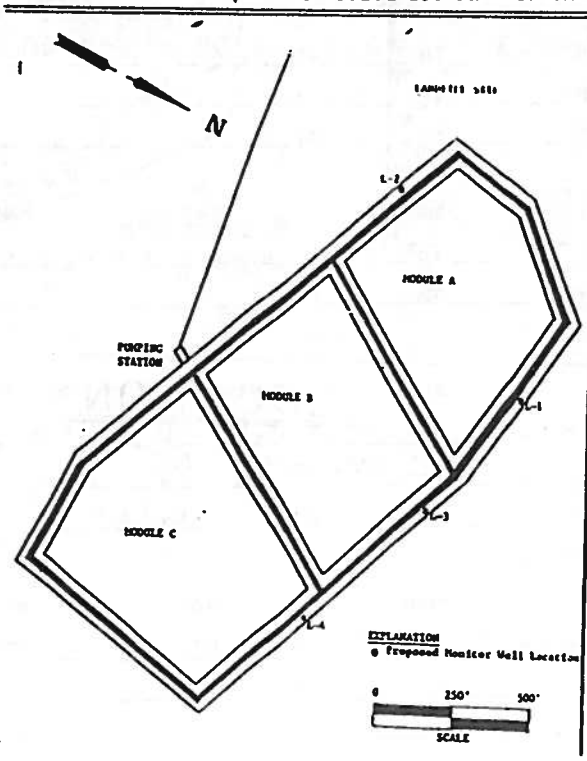
13. GRAVEL PACK:

	Depth From	Depth To	Size	Material
	-12.5	-2.0	Fine	Sand

14. REMARKS _____

Depth From	Depth To	DRILLING LOG Formation Description
0.0	1.0	Brown Organic Silty Fine SAND
1.0	6.0	Brownish Gray Slightly Silty to Medium SAND
6.0	15.0	Loose Tan Medium to Coarse SAND

If additional space is needed use back of form.



I DO HEREBY CERTIFY THAT THIS WELL WAS CONSTRUCTED IN ACCORDANCE WITH 15 NCAC 2C, WELL CONSTRUCTION STANDARDS, AND THAT A COPY OF THIS RECORD HAS BEEN PROVIDED TO THE WELL OWNER.

Thomas M. Aiken 7/14/89
SIGNATURE OF CONTRACTOR OR AGENT DATE

GW-1 Revised 11/84

Submit original to Division of Environmental Management and copy to well owner

APPENDIX B

SWIFT CREEK DATA

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
1/1/2001	P	P	P	P	P	20 A e
1/2/2001	0.57 A	0.00 A	0.25 A	193 A	-195 A	33 A
1/3/2001	0.99 A	0.35 A	0.57 A	257 A	-361 A	16 A
1/4/2001	0.75 A	0.05 A	0.46 A	184 A	-280 A	15 A
1/5/2001	0.83 A	-0.60 A	0.41 A	553 A	-390 A	22 A
1/6/2001	0.79 A	0.15 A	0.49 A	171 A	-404 A	17 A
1/7/2001	0.92 A	0.45 A	0.63 A	232 A	-211 A	30 A
1/8/2001	1.11 A	0.27 A	0.67 A	178 A	-255 A	15 A
1/9/2001	1.16 A	0.22 A	0.78 A	343 A	-319 A	-5.4 A
1/10/2001	P	P	P	P	P	-20 A e
1/11/2001	0.84 A	0.35 A	0.64 A	163 A	-283 A	14 A
1/12/2001	1.15 A	0.32 A	0.82 A	257 A	-242 A	-19 A
1/13/2001	1.73 A	0.89 A	1.28 A	502 A	-424 A	-33 A
1/14/2001	1.48 A	0.97 A	1.16 A	244 A	-183 A	31 A
1/15/2001	1.12 A	0.76 A	0.94 A	236 A	-193 A	20 A
1/16/2001	1.63 A	0.55 A	0.92 A	623 A	-540 A	20 A
1/17/2001	1.61 A	0.79 A	1.13 A	341 A	-347 A	-6.8 A
1/18/2001	1.51 A	0.65 A	1.08 A	493 A	-355 A	30 A
1/19/2001	1.41 A	0.30 A	0.98 A	458 A	-432 A	28 A
1/20/2001	1.51 A	-0.02 A	0.80 A	808 A	-454 A	136 A
1/21/2001	1.41 A	-0.44 A	0.50 A	414 A	-504 A	78 A
1/22/2001	20.11 A (?)	0.89 A	11.86 A	P	P	60 A e
1/23/2001	20.10 A (?)	20.10 A (?)	20.10 A (?)	P	P	160 A e
1/24/2001	20.10 A (?)	0.87 A	6.99 A	P	P	100 A e
1/25/2001	1.35 A	0.39 A	0.87 A	539 A	-390 A	79 A
1/26/2001	1.51 A	0.60 A	1.11 A	511 A	-476 A	51 A
1/27/2001	1.06 A	0.02 A	0.44 A	342 A	-451 A	37 A
1/28/2001	1.15 A	0.58 A	0.91 A	309 A	-256 A	77 A
1/29/2001	1.18 A	0.49 A	0.84 A	267 A	-166 A	38 A
1/30/2001	1.19 A	-0.49 A	0.53 A	441 A	-547 A	65 A
1/31/2001	0.72 A	0.13 A	0.40 A	268 A	-291 A	56 A
2/1/2001	1.38 A	0.46 A	0.85 A	345 A	-449 A	
2/2/2001	1.23 A	0.32 A	0.75 A	280 A	-155 A	69 A
2/3/2001	1.59 A	0.35 A	0.95 A	386 A	-427 A	-1.7 A
2/4/2001	1.70 A	0.67 A	1.18 A	413 A	-254 A	60 A
2/5/2001	1.15 A	0.01 A	0.63 A	313 A	-510 A	50 A
2/6/2001	1.12 A	0.43 A	0.75 A	311 A	-277 A	109 A
2/7/2001	1.58 A	0.54 A	0.90 A	572 A	-436 A	76 A
2/8/2001	1.26 A	0.48 A	0.88 A	407 A	-219 A	76 A
2/9/2001	0.90 A	0.40 A	0.64 A	293 A	-141 A	85 A
2/10/2001	1.69 A	-0.41 A	0.37 A	241 A	-742 A	-5.4 A
2/11/2001	1.91 A	0.84 A	1.47 A	579 A	-536 A	30 A
2/12/2001	1.75 A	0.56 A	1.27 A	610 A	-242 A	171 A
2/13/2001	0.94 A	0.17 A	0.60 A	303 A	-399 A	62 A
2/14/2001	0.96 A	0.30 A	0.57 A	314 A	-198 A	112 A
2/15/2001	0.75 A	-0.01 A	0.31 A	278 A	-137 A	75 A
2/16/2001	0.83 A	-0.03 A	0.52 A	524 A	-240 A	131 A
2/17/2001	1.67 A	-0.54 A	0.54 A	652 A	-726 A	51 A
2/18/2001	1.87 A	0.90 A	1.38 A	824 A	-771 A	186 A
2/19/2001	1.27 A	0.58 A	1.00 A	636 A	-6.1 A	252 A
2/20/2001	0.90 A	0.26 A	0.63 A	419 A	-6.0 A	159 A
2/21/2001	0.70 A	0.28 A	0.46 A	226 A	-50 A	108 A
2/22/2001	2.51 A	0.37 A	1.69 A	1,750 A	-978 A	223 A
2/23/2001	1.35 A	0.37 A	1.03 A	545 A	61 A	239 A
2/24/2001	2.06 A	0.79 A	1.49 A	725 A	-527 A	217 A
2/25/2001	1.70 A	0.59 A	1.01 A	1,010 A	-76 A	372 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
2/26/2001	2.01 A	0.36 A	0.90 A	569 A	-700 A	95 A
2/27/2001	1.78 A	0.99 A	1.30 A	1,190 A	17 A	365 A
2/28/2001	2.22 A	0.73 A	1.37 A	1,680 A	-630 A	235 A
3/1/2001	1.48 A	0.57 A	1.04 A	1,140 A	-340 A	217 A
3/2/2001	1.20 A	0.66 A	0.91 A	480 A	-98 A	172 A
3/3/2001	1.33 A	0.76 A	1.08 A	258 A	-246 A	84 A
3/4/2001	1.97 A	0.89 A	1.50 A	1,100 A	-413 A	175 A
3/5/2001	1.50 A	-0.20 A	0.82 A	837 A	-18 A	278 A
3/6/2001	0.81 A	-1.19 A	-0.27 A	1,000 A	98 A	437 A
3/7/2001	1.75 A	-0.23 A	1.10 A	630 A	-336 A	169 A
3/8/2001	1.92 A	1.11 A	1.50 A	898 A	-340 A	262 A
3/9/2001	1.63 A	0.79 A	1.28 A	495 A	-169 A	179 A
3/10/2001	2.31 A	1.13 A	1.87 A	951 A	-717 A	115 A
3/11/2001	1.67 A	1.07 A	1.43 A	713 A	-180 A	245 A
3/12/2001	1.87 A	1.07 A	1.50 A	794 A	-339 A	124 A
3/13/2001	1.77 A	0.13 A	0.90 A	1,010 A	-836 A	145 A
3/14/2001	1.53 A	0.47 A	1.06 A	489 A	-413 A	74 A
3/15/2001	1.77 A	0.35 A	1.24 A	602 A	-408 A	202 A
3/16/2001	1.97 A	0.32 A	1.37 A	1,410 A	-412 A	158 A
3/17/2001	1.41 A	0.81 A	1.10 A	636 A	-282 A	205 A
3/18/2001	1.80 A	0.53 A	1.13 A	489 A	-525 A	68 A
3/19/2001	2.31 A	1.43 A	1.98 A	946 A	-503 A	-17 A
3/20/2001	2.85 A	1.76 A	2.44 A	1,650 A	-1,060 A	97 A
3/21/2001	3.43 A	1.79 A	2.71 A	2,620 A	-1,600 A	961 A
3/22/2001	1.79 A	0.83 A	1.32 A	1,710 A	395 A	1,040 A
3/23/2001	1.92 A	1.56 A	1.74 A	1,830 A	744 A	1,240 A
3/24/2001	1.90 A	0.73 A	1.55 A	1,700 A	801 A	1,340 A
3/25/2001	2.47 A	0.82 A	2.04 A	1,500 A	-302 A	698 A
3/26/2001	1.93 A	1.19 A	1.65 A	1,470 A	89 A	768 A
3/27/2001	2.21 A	1.56 A	1.93 A	1,130 A	-356 A	379 A
3/28/2001	2.00 A	1.79 A	1.88 A	705 A	-30 A	319 A
3/29/2001	2.16 A	1.52 A	1.94 A	1,220 A	-138 A	229 A
3/30/2001	2.10 A	1.19 A	1.58 A	1,010 A	-89 A	402 A
3/31/2001	1.84 A	1.51 A	1.68 A	761 A	148 A	450 A
4/1/2001	2.16 A	1.13 A	1.87 A	1,600 A	-307 A	529 A
4/2/2001	1.98 A	0.86 A	1.64 A	1,140 A	-373 A	378 A
4/3/2001	1.83 A	1.48 A	1.68 A	845 A	182 A	409 A
4/4/2001	2.52 A	1.38 A	1.94 A	652 A	-563 A	64 A
4/5/2001	2.49 A	1.95 A	2.19 A	1,400 A	-446 A	550 A
4/6/2001	2.03 A	0.79 A	1.57 A	962 A	193 A	492 A
4/7/2001	1.83 A	0.77 A	1.36 A	721 A	-218 A	204 A
4/8/2001	1.79 A	1.26 A	1.55 A	767 A	-89 A	244 A
4/9/2001	1.77 A	1.24 A	1.49 A	672 A	-172 A	192 A
4/10/2001	2.59 A	1.26 A	1.83 A	858 A	-1,020 A	-123 A
4/11/2001	2.59 A	1.88 A	2.31 A	1,580 A	-649 A	501 A
4/12/2001	1.88 A	1.11 A	1.60 A	706 A	77 A	256 A
4/13/2001	1.92 A	0.98 A	1.35 A	466 A	-681 A	62 A
4/14/2001	2.37 A	1.33 A	1.84 A	1,130 A	-795 A	173 A
4/15/2001	1.74 A	0.76 A	1.27 A	458 A	17 A	196 A
4/16/2001	2.13 A	0.50 A	1.04 A	546 A	-944 A	-23 A
4/17/2001	2.45 A	1.27 A	1.97 A	2,050 A	-1,170 A	274 A
4/18/2001	1.46 A	0.37 A	0.87 A	1,200 A	-196 A	167 A
4/19/2001	1.47 A	0.71 A	1.15 A	523 A	-342 A	109 A
4/20/2001	1.36 A	0.60 A	1.02 A	464 A	-164 A	105 A
4/21/2001	1.04 A	0.39 A	0.80 A	380 A	-245 A	91 A
4/22/2001	1.00 A	0.33 A	0.81 A	455 A	-332 A	79 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
4/23/2001	0.94 A	0.18 A	0.67 A	374 A	-228 A	67 A
4/24/2001	0.69 A	-0.23 A	0.35 A	386 A	-270 A	92 A
4/25/2001	2.23 A	-0.23 A	1.31 A	1,550 A	-989 A	48 A
4/26/2001	2.30 A	1.19 A	1.78 A	1,570 A	-838 A	89 A
4/27/2001	2.01 A	0.53 A	1.15 A	1,350 A	-477 A	239 A
4/28/2001	2.31 A	0.27 A	1.05 A	336 A	-1,170 A	-172 A
4/29/2001	2.26 A	1.42 A	1.77 A	1,460 A	-557 A	267 A
4/30/2001	1.54 A	0.89 A	1.17 A	249 A	-41 A	101 A
5/1/2001	1.07 A	0.46 A	0.84 A	362 A	-268 A	81 A
5/2/2001	1.25 A	0.49 A	0.79 A	310 A	-475 A	47 A
5/3/2001	1.13 A	0.49 A	0.80 A	566 A	-302 A	47 A
5/4/2001	1.26 A	0.33 A	0.78 A	645 A	-358 A	47 A
5/5/2001	0.92 A	0.25 A	0.58 A	446 A	-306 A	50 A
5/6/2001	2.89 A	0.16 A	1.64 A	319 A	-1,100 A	-406 A
5/7/2001	2.94 A	1.82 A	2.42 A	1,740 A	-1,160 A	487 A
5/8/2001	1.98 A	1.26 A	1.67 A	1,150 A	-467 A	99 A
5/9/2001	2.05 A	0.92 A	1.43 A	1,260 A	-680 A	126 A
5/10/2001	1.47 A	0.69 A	1.09 A	788 A	-575 A	92 A
5/11/2001	1.29 A	0.06 A	0.85 A	700 A	-477 A	91 A
5/12/2001	1.30 A	-0.56 A	0.52 A	632 A	-497 A	63 A
5/13/2001	1.85 A	-0.56 A	1.18 A	888 A	-620 A	-129 A
5/14/2001	1.92 A	0.75 A	1.23 A	1,200 A	-698 A	89 A
5/15/2001	1.98 A	0.82 A	1.23 A	1,340 A	-616 A	140 A
5/16/2001	2.23 A	1.11 A	1.57 A	456 A	-787 A	-123 A
5/17/2001	8.12 A	1.55 A	4.44 A	1,430 A	-554 A	150 A e
5/18/2001	8.12 A	0.79 A	3.11 A	662 A	-205 A	50 A e
5/19/2001	8.19 A	0.80 A	2.40 A	723 A	-477 A	-10 A e
5/20/2001	8.18 A	8.16 A	8.17 A	1,290 A	-1,300 A	70 A e
5/21/2001	8.16 A	0.76 A	4.05 A	930 A	-750 A	170 A e
5/22/2001	1.23 A	-0.04 A	0.67 A	480 A	-419 A	115 A
5/23/2001	2.20 A	0.02 A	1.39 A	1,230 A	-972 A	-85 A
5/24/2001	2.02 A	1.40 A	1.68 A	1,320 A	-678 A	75 A
5/25/2001	1.86 A	0.90 A	1.51 A	1,130 A	-350 A	172 A
5/26/2001	1.58 A	1.00 A	1.40 A	432 A	-366 A	37 A
5/27/2001	6.11 A	0.49 A	3.61 A	588 A	-8.3 A	100 A e
5/28/2001	6.11 A	0.71 A	5.63 A	398 A	-8.3 A	50 A e
5/29/2001	6.11 A	1.22 A	5.49 A	-6.1 A	-8.3 A	50 A e
5/30/2001	6.11 A	0.82 A	3.33 A	354 A	-726 A	100 A e
5/31/2001	2.45 A	1.89 A	2.11 A	1,180 A	-1,050 A	91 A
6/1/2001	1.89 A	0.91 A	1.47 A	1,090 A	-253 A	315 A
6/2/2001	1.59 A	0.64 A	1.17 A	1,090 A	99 A	400 A
6/3/2001	1.32 A	0.58 A	1.00 A	811 A	-63 A	355 A
6/4/2001	2.32 A	0.97 A	1.76 A	1,390 A	-735 A	222 A
6/5/2001	1.75 A	0.53 A	1.22 A	871 A	-489 A	160 A
6/6/2001	1.98 A	0.59 A	1.26 A	1,170 A	-711 A	186 A
6/7/2001	1.47 A	0.76 A	1.04 A	376 A	-401 A	70 A
6/8/2001	1.85 A	1.05 A	1.43 A	1,060 A	-702 A	56 A
6/9/2001	1.75 A	1.15 A	1.49 A	437 A	-312 A	100 A e
6/10/2001	1.54 A	1.22 A	1.34 A	167 A	-18 A	100 A e
6/11/2001	1.39 A	0.79 A	1.14 A	255 A	-167 A	70 A
6/12/2001	1.14 A	0.52 A	0.84 A	502 A	-437 A	80 A e
6/13/2001	1.63 A	0.34 A	1.16 A	805 A	-380 A	40 A
6/14/2001	2.12 A	1.18 A	1.74 A	1,280 A	-500 A	224 A
6/15/2001	2.20 A	0.72 A	1.25 A	1,970 A	-357 A	1,110 A
6/16/2001	1.74 A	0.91 A	1.30 A	1,880 A	694 A	1,130 A
6/17/2001	P	P	P	P	P	1,310 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
6/18/2001	2.38 A	1.84 A	2.06 A	1,750 A	822 A	1,390 A
6/19/2001	2.36 A	2.02 A	2.20 A	2,620 A	844 A	1,700 A
6/20/2001	2.04 A	1.66 A	1.91 A	2,300 A	753 A	1,520 A
6/21/2001	1.81 A	1.44 A	1.61 A	1,770 A	-291 A	1,000 A e
6/22/2001	1.69 A	0.84 A	1.35 A	898 A	-285 A	600 A e
6/23/2001	1.39 A	0.66 A	0.97 A	835 A	40 A	285 A
6/24/2001	1.86 A	0.98 A	1.49 A	519 A	-125 A	147 A
6/25/2001	P	P	P	P	P	175 A e
6/26/2001	P	P	P	P	P	267 A
6/27/2001	1.84 A	1.22 A	1.44 A	675 A	-232 A	167 A
6/28/2001	1.42 A	0.80 A	1.05 A	411 A	-282 A	152 A
6/29/2001	1.24 A	0.64 A	0.92 A	345 A	-176 A	111 A
6/30/2001	1.20 A	0.29 A	0.78 A	382 A	-164 A	68 A
7/1/2001	0.67 A	-0.30 A	0.33 A	660 A	-5.9 A	58 A
7/2/2001	2.14 A	-0.42 A	0.66 A	237 A	-59 A	1.6 A
7/3/2001	1.67 A	0.69 A	1.31 A	-5.9 A	-6.3 A	-6.2 A
7/4/2001	1.07 A	-0.01 A	0.67 A	408 A	-6.1 A	66 A
7/5/2001	0.85 A	-0.16 A	0.28 A	613 A	-467 A	29 A
7/6/2001	2.03 A	0.25 A	1.05 A	1,300 A	-660 A	-28 A
7/7/2001	1.89 A	1.05 A	1.46 A	1,300 A	-410 A	158 A
7/8/2001	1.29 A	0.19 A	0.73 A	366 A	-132 A	125 A
7/9/2001	1.43 A	0.21 A	0.92 A	545 A	-363 A	8.9 A
7/10/2001	1.48 A	0.88 A	1.26 A	333 A	-327 A	54 A
7/11/2001	1.12 A	0.52 A	0.96 A	496 A	-143 A	114 A
7/12/2001	2.08 A	0.52 A	1.55 A	762 A	-886 A	-57 A
7/13/2001	2.03 A	0.94 A	1.73 A	723 A	-559 A	155 A
7/14/2001	1.54 A	0.96 A	1.30 A	337 A	-352 A	3.0 A
7/15/2001	1.68 A	0.83 A	1.19 A	740 A	-388 A	80 A
7/16/2001	1.22 A	0.68 A	0.99 A	401 A	-280 A	61 A
7/17/2001	1.28 A	0.57 A	0.90 A	389 A	-198 A	58 A
7/18/2001	1.09 A	0.53 A	0.84 A	851 A	-186 A	58 A
7/19/2001	1.89 A	0.26 A	0.92 A	258 A	-756 A	-26 A
7/20/2001	2.16 A	1.12 A	1.70 A	485 A	-575 A	-34 A
7/21/2001	2.18 A	1.44 A	1.91 A	1,220 A	-621 A	56 A
7/22/2001	2.09 A	1.35 A	1.72 A	769 A	-505 A	210 A
7/23/2001	1.84 A	1.15 A	1.49 A	777 A	-467 A	83 A
7/24/2001	1.41 A	0.20 A	0.88 A	732 A	-402 A	86 A
7/25/2001	1.20 A	0.43 A	0.92 A	403 A	-359 A	43 A
7/26/2001	0.95 A	0.34 A	0.66 A	258 A	-331 A	-1.5 A
7/27/2001	2.32 A	0.27 A	1.03 A	261 A	-970 A	-229 A
7/28/2001	2.32 A	1.39 A	1.81 A	1,660 A	-533 A	284 A
7/29/2001	1.79 A	0.36 A	1.18 A	696 A	-343 A	179 A
7/30/2001	2.13 A	0.36 A	1.38 A	738 A	-556 A	57 A
7/31/2001	2.19 A	1.73 A	1.94 A	1,650 A	-6.5 A	542 A
8/1/2001	2.52 A	1.79 A	2.11 A	1,450 A	-875 A	391 A
8/2/2001	2.26 A	1.47 A	1.96 A	1,610 A	-588 A	583 A
8/3/2001	1.82 A	1.20 A	1.52 A	719 A	-563 A	199 A
8/4/2001	1.48 A	0.91 A	1.24 A	719 A	-495 A	129 A
8/5/2001	1.60 A	0.91 A	1.26 A	249 A	-323 A	60 A
8/6/2001	1.72 A	0.87 A	1.26 A	573 A	-629 A	58 A
8/7/2001	1.18 A	0.57 A	0.95 A	298 A	-132 A	71 A
8/8/2001	1.12 A	0.53 A	0.90 A	230 A	-264 A	8.2 A
8/9/2001	1.35 A	0.53 A	0.86 A	648 A	-352 A	81 A
8/10/2001	1.29 A	0.29 A	0.76 A	751 A	-338 A	80 A
8/11/2001	0.88 A	0.17 A	0.60 A	410 A	-260 A	48 A
8/12/2001	0.90 A	0.20 A	0.56 A	337 A	-325 A	34 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
8/13/2001	1.11 A	0.21 A	0.52 A	431 A	-380 A	86 A
8/14/2001	1.83 A	0.46 A	0.98 A	814 A	-378 A	150 A
8/15/2001	1.82 A	1.07 A	1.48 A	1,380 A	112 A	555 A
8/16/2001	1.75 A	1.33 A	1.50 A	1,450 A	365 A	769 A
8/17/2001	1.65 A	0.97 A	1.29 A	1,200 A	253 A	710 A
8/18/2001	1.47 A	0.40 A	0.97 A	1,040 A	133 A	493 A
8/19/2001	1.51 A	0.50 A	1.02 A	1,090 A	-280 A	242 A
8/20/2001	1.16 A	0.55 A	0.88 A	633 A	-200 A	184 A
8/21/2001	1.62 A	0.77 A	1.26 A	556 A	-331 A	234 A
8/22/2001	2.04 A	1.52 A	1.82 A	870 A	17 A	277 A
8/23/2001	2.02 A	1.31 A	1.64 A	1,680 A	194 A	561 A
8/24/2001	1.74 A	1.02 A	1.35 A	663 A	-242 A	252 A
8/25/2001	2.30 A	1.62 A	1.93 A	416 A	-597 A	-16 A
8/26/2001	2.20 A	1.52 A	1.78 A	1,230 A	-377 A	282 A
8/27/2001	1.99 A	0.97 A	1.39 A	958 A	-192 A	242 A
8/28/2001	1.39 A	0.64 A	0.97 A	784 A	-736 A	81 A
8/29/2001	1.48 A	0.43 A	1.07 A	449 A	-595 A	37 A
8/30/2001	1.57 A	0.82 A	1.21 A	436 A	-374 A	122 A
8/31/2001	1.33 A	0.55 A	0.96 A	612 A	-372 A	111 A
9/1/2001	1.72 A	0.19 A	0.92 A	825 A	-419 A	91 A
9/2/2001	2.22 A	1.16 A	1.83 A	676 A	-814 A	-76 A
9/3/2001	2.11 A	1.44 A	1.70 A	980 A	-195 A	210 A
9/4/2001	1.75 A	1.12 A	1.47 A	461 A	-373 A	82 A
9/5/2001	2.21 A	1.05 A	1.46 A	267 A	-843 A	-70 A
9/6/2001	2.29 A	1.37 A	1.97 A	1,370 A	-774 A	94 A
9/7/2001	2.11 A	1.34 A	1.67 A	1,320 A	-492 A	197 A
9/8/2001	1.96 A	1.23 A	1.64 A	738 A	-519 A	37 A
9/9/2001	1.73 A	1.18 A	1.55 A	759 A	-452 A	66 A
9/10/2001	P	P	P	P	P	63 A
9/11/2001	P	P	P	P	P	34 A
9/12/2001	2.02 A	1.39 A	1.77 A	757 A	-529 A	-38 A
9/13/2001	2.14 A	1.44 A	1.79 A	1,300 A	-490 A	95 A
9/14/2001	2.21 A	1.28 A	1.70 A	997 A	-963 A	-16 A
9/15/2001	3.16 A	2.21 A	2.78 A	-196 A	-1,020 A	-530 A
9/16/2001	3.16 A	2.63 A	2.90 A	1,460 A	-1,030 A	349 A
9/17/2001	2.76 A	2.19 A	2.37 A	1,170 A	-521 A	407 A
9/18/2001	2.30 A	1.70 A	2.01 A	756 A	-388 A	114 A
9/19/2001	2.36 A	1.64 A	1.95 A	778 A	-802 A	-81 A
9/20/2001	1.97 A	1.51 A	1.76 A	1,200 A	-468 A	116 A
9/21/2001	2.04 A	1.41 A	1.76 A	939 A	-564 A	12 A
9/22/2001	2.04 A	1.33 A	1.71 A	828 A	-461 A	8.1 A
9/23/2001	1.98 A	1.34 A	1.74 A	1,050 A	-689 A	55 A
9/24/2001	2.00 A	1.05 A	1.56 A	788 A	-364 A	46 A
9/25/2001	1.78 A	1.12 A	1.41 A	460 A	-491 A	-15 A
9/26/2001	1.68 A	1.34 A	1.50 A	285 A	-159 A	34 A
9/27/2001	1.62 A	1.12 A	1.46 A	257 A	-170 A	38 A
9/28/2001	2.05 A	0.95 A	1.46 A	1,050 A	-572 A	-31 A
9/29/2001	2.10 A	1.38 A	1.73 A	626 A	-658 A	-64 A
9/30/2001	2.12 A	1.44 A	1.89 A	993 A	-471 A	15 A
10/1/2001	2.07 A	1.40 A	1.77 A	814 A	-522 A	6.1 A
10/2/2001	2.09 A	1.67 A	1.92 A	722 A	-403 A	30 A
10/3/2001	1.97 A	1.29 A	1.78 A	502 A	-390 A	25 A
10/4/2001	1.87 A	1.00 A	1.45 A	685 A	-600 A	4.1 A
10/5/2001	1.55 A	1.00 A	1.34 A	391 A	-213 A	18 A
10/6/2001	2.10 A	0.74 A	1.15 A	408 A	-1,040 A	-43 A
10/7/2001	2.35 A	1.29 A	1.76 A	1,660 A	-1,040 A	165 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
10/8/2001	2.23 A	1.43 A	1.82 A	1,590 A	-806 A	5.2 A
10/9/2001	2.43 A	1.61 A	2.11 A	1,680 A	-828 A	78 A
10/10/2001	2.03 A	1.19 A	1.43 A	1,490 A	-439 A	231 A
10/11/2001	1.47 A	0.99 A	1.23 A	373 A	-331 A	41 A
10/12/2001	1.68 A	0.93 A	1.26 A	278 A	-487 A	-23 A
10/13/2001	1.79 A	1.01 A	1.33 A	440 A	-516 A	52 A
10/14/2001	1.79 A	0.98 A	1.42 A	714 A	-522 A	23 A
10/15/2001	1.88 A	0.78 A	1.45 A	286 A	-423 A	-50 A
10/16/2001	2.08 A	0.88 A	1.74 A	1,060 A	-560 A	113 A
10/17/2001	1.78 A	0.29 A	1.07 A	403 A	-611 A	-21 A
10/18/2001	2.22 A	0.98 A	1.82 A	830 A	-750 A	-65 A
10/19/2001	1.88 A	1.15 A	1.57 A	442 A	-301 A	79 A
10/20/2001	1.68 A	1.01 A	1.34 A	380 A	-388 A	-5.5 A
10/21/2001	1.50 A	1.07 A	1.33 A	268 A	-251 A	8.0 A
10/22/2001	1.53 A	0.91 A	1.25 A	430 A	-330 A	-14 A
10/23/2001	1.42 A	1.07 A	1.22 A	315 A	-295 A	8.0 A
10/24/2001	1.39 A	0.88 A	1.16 A	245 A	-388 A	20 A
10/25/2001	1.10 A	0.53 A	0.78 A	251 A	-209 A	14 A
10/26/2001	1.30 A	-0.19 A	0.58 A	723 A	-572 A	-1.8 A
10/27/2001	1.64 A	0.56 A	0.93 A	875 A	-519 A	56 A
10/28/2001	1.95 A	0.62 A	1.26 A	504 A	-555 A	-54 A
10/29/2001	1.93 A	0.93 A	1.35 A	1,060 A	-472 A	72 A
10/30/2001	1.47 A	0.91 A	1.10 A	233 A	-344 A	14 A
10/31/2001	1.67 A	0.79 A	1.30 A	491 A	-501 A	23 A
11/1/2001	1.48 A	1.00 A	1.14 A	511 A	-285 A	14 A
11/2/2001	1.47 A	0.88 A	1.13 A	507 A	-281 A	4.7 A
11/3/2001	1.41 A	0.83 A	1.11 A	622 A	-423 A	4.2 A
11/4/2001	1.86 A	0.83 A	1.31 A	997 A	-660 A	-64 A
11/5/2001	2.04 A	0.70 A	1.37 A	1,140 A	-860 A	50 A
11/6/2001	1.99 A	0.92 A	1.52 A	1,530 A	-433 A	98 A
11/7/2001	1.31 A	1.04 A	1.14 A	165 A	-352 A	-13 A
11/8/2001	1.21 A	0.67 A	1.00 A	707 A	-362 A	6.6 A
11/9/2001	1.86 A	0.52 A	1.12 A	854 A	-584 A	-20 A
11/10/2001	1.38 A	0.65 A	1.01 A	561 A	-307 A	29 A
11/11/2001	2.08 A	0.41 A	1.03 A	376 A	-699 A	-160 A
11/12/2001	2.05 A	1.15 A	1.49 A	1,470 A	-325 A	93 A
11/13/2001	2.07 A	0.93 A	1.72 A	1,440 A	-637 A	56 A
11/14/2001	1.47 A	0.97 A	1.30 A	732 A	-291 A	67 A
11/15/2001	1.68 A	1.07 A	1.31 A	343 A	-523 A	-37 A
11/16/2001	1.52 A	1.01 A	1.34 A	848 A	-283 A	-29 A
11/17/2001	1.84 A	0.87 A	1.30 A	796 A	-574 A	-60 A
11/18/2001	1.83 A	1.32 A	1.59 A	796 A	-430 A	7.2 A
11/19/2001	1.37 A	1.01 A	1.23 A	511 A	-388 A	12 A
11/20/2001	2.22 A	0.74 A	1.12 A	388 A	-1,010 A	-123 A
11/21/2001	2.15 A	1.30 A	1.56 A	1,320 A	-464 A	153 A
11/22/2001	1.36 A	0.99 A	1.21 A	507 A	-442 A	-42 A
11/23/2001	1.64 A	0.95 A	1.23 A	510 A	-586 A	-55 A
11/24/2001	1.60 A	0.97 A	1.31 A	753 A	-343 A	109 A
11/25/2001	1.41 A	0.90 A	1.21 A	749 A	-422 A	11 A
11/26/2001	1.30 A	1.00 A	1.18 A	313 A	-201 A	20 A
11/27/2001	1.53 A	0.95 A	1.25 A	392 A	-484 A	43 A
11/28/2001	1.44 A	0.89 A	1.16 A	711 A	-331 A	28 A
11/29/2001	1.63 A	0.97 A	1.20 A	880 A	-265 A	-34 A
11/30/2001	1.48 A	0.86 A	1.20 A	679 A	-367 A	-20 A
12/1/2001	1.46 A	0.97 A	1.21 A	579 A	-378 A	-10 A
12/2/2001	2.10 A	1.02 A	1.56 A	389 A	-678 A	-169 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
12/3/2001	2.09 A	1.47 A	1.72 A	1,700 A	-504 A	172 A
12/4/2001	1.88 A	1.20 A	1.47 A	1,090 A	-368 A	81 A
12/5/2001	1.32 A	0.95 A	1.14 A	369 A	-318 A	20 A
12/6/2001	1.20 A	0.83 A	0.98 A	311 A	-393 A	20 A
12/7/2001	1.23 A	0.55 A	0.86 A	473 A	-438 A	22 A
12/8/2001	1.48 A	0.81 A	1.11 A	549 A	-309 A	13 A
12/9/2001	2.10 A	0.49 A	1.32 A	1,250 A	-771 A	-65 A
12/10/2001	2.09 A	1.25 A	1.68 A	1,190 A	-561 A	105 A
12/11/2001	1.83 A	0.88 A	1.44 A	796 A	-501 A	56 A
12/12/2001	1.83 A	1.37 A	1.65 A	631 A	-326 A	47 A
12/13/2001	1.59 A	1.11 A	1.42 A	880 A	-366 A	85 A
12/14/2001	1.73 A	0.25 A	1.18 A	1,690 A	-609 A	141 A
12/15/2001	2.01 A	0.25 A	1.33 A	1,360 A	-742 A	-37 A
12/16/2001	P	P	P	P	P	50 A e
12/17/2001	1.78 A	0.84 A	1.39 A	665 A	-480 A	80 A
12/18/2001	1.59 A	-1.20 A	0.42 A	878 A	-719 A	74 A
12/19/2001	1.75 A	1.01 A	1.43 A	472 A	-360 A	24 A
12/20/2001	1.15 A	0.15 A	0.49 A	521 A	-466 A	67 A
12/21/2001	1.20 A	0.17 A	0.64 A	323 A	-456 A	-24 A
12/22/2001	1.85 A	0.79 A	1.26 A	1,040 A	-684 A	27 A
12/23/2001	1.35 A	0.79 A	1.07 A	334 A	-396 A	1.3 A
12/24/2001	1.12 A	0.60 A	0.83 A	334 A	-348 A	25 A
12/25/2001	1.60 A	0.96 A	1.27 A	468 A	-401 A	-1.2 A
12/26/2001	1.69 A	0.85 A	1.22 A	317 A	-455 A	3.4 A
12/27/2001	P	P	P	P	P	139 A
12/28/2001	1.11 A	0.00 A	0.62 A	651 A	-399 A	52 A
12/29/2001	1.29 A	0.28 A	0.87 A	709 A	-497 A	0
12/30/2001	P	P	P	P	P	-11 A
12/31/2001	P	P	P	P	P	-27 A
1/1/2002	1.45 A	0.87 A	1.17 A	636 A	-389 A	-33 A
1/2/2002	1.98 A	1.05 A	1.36 A	582 A	-821 A	-122 A
1/3/2002	2.31 A	0.64 A	1.56 A	1,640 A	-689 A	202 A
1/4/2002	1.63 A	0.28 A	0.97 A	687 A	-575 A	16 A
1/5/2002	P	P	P	P	P	13 A
1/6/2002	1.96 A	-0.03 A	0.86 A	2,010 A	-675 A	236 A
1/7/2002	0.81 A	-0.33 A	0.32 A	671 A	-258 A	168 A
1/8/2002	P	P	P	P	P	189 A
1/9/2002	0.60 A	0.03 A	0.27 A	283 A	-61 A	157 A
1/10/2002	0.60 A	0.04 A	0.34 A	214 A	-235 A	63 A
1/11/2002	0.86 A	-0.26 A	0.30 A	458 A	-279 A	67 A
1/12/2002	0.92 A	0.25 A	0.61 A	343 A	-147 A	75 A
1/13/2002	1.05 A	-0.79 A	0.20 A	486 A	-321 A	79 A
1/14/2002	P	P	P	P	P	210 A
1/15/2002	0.72 A	0.22 A	0.48 A	484 A	0.458333333	219 A
1/16/2002	1.25 A	0.15 A	0.70 A	497 A	-229 A	171 A
1/17/2002	P	P	P	P	P	150 A
1/18/2002	0.80 A	0.28 A	0.50 A	366 A	-98 A	96 A
1/19/2002	1.18 A	-0.41 A	0.63 A	767 A	-513 A	119 A
1/20/2002	1.79 A	-0.19 A	0.80 A	775 A	-442 A	123 A
1/21/2002	1.19 A	0.49 A	0.76 A	605 A	-32 A	244 A
1/22/2002	P	P	P	P	P	243 A
1/23/2002	1.09 A	0.22 A	0.75 A	811 A	48 A	375 A
1/24/2002	0.84 A	-0.27 A	0.35 A	867 A	19 A	405 A
1/25/2002	1.87 A	0.06 A	0.97 A	1,150 A	-247 A	654 A
1/26/2002	P	P	P	P	P	625 A
1/27/2002	1.29 A	0.76 A	1.00 A	807 A	169 A	471 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
1/28/2002	1.13 A	0.77 A	0.96 A	648 A	107 A	302 A
1/29/2002	1.06 A	0.77 A	0.91 A	442 A	20 A	256 A
1/30/2002	1.11 A	0.74 A	0.91 A	485 A	20 A	221 A
1/31/2002	1.20 A	0.69 A	0.99 A	448 A	-23 A	176 A
2/1/2002	1.10 A	0.38 A	0.84 A	454 A	0.5	203 A
2/2/2002	2.25 A	0.62 A	1.70 A	752 A	-716 A	59 A
2/3/2002	P	P	P	P	P	219 A
2/4/2002	1.36 A	-0.69 A	0.49 A	606 A	-23 A	215 A
2/5/2002	1.50 A	-0.54 A	0.88 A	418 A	-206 A	25 A
2/6/2002	1.33 A	0.69 A	0.97 A	301 A	-110 A	93 A
2/7/2002	1.68 A	0.25 A	1.08 A	617 A	-296 A	129 A
2/8/2002	1.76 A	0.91 A	1.28 A	675 A	-6.2 A	280 A
2/9/2002	1.72 A	0.97 A	1.25 A	984 A	38 A	445 A
2/10/2002	1.72 A	0.95 A	1.33 A	768 A	-104 A	355 A
2/11/2002	1.89 A	-0.30 A	0.77 A	855 A	-367 A	228 A
2/12/2002	1.69 A	0.79 A	1.28 A	921 A	-6.1 A	340 A
2/13/2002	1.92 A	0.81 A	1.20 A	441 A	-350 A	146 A
2/14/2002	2.18 A	1.72 A	1.96 A	750 A	-207 A	201 A
2/15/2002	1.76 A	1.07 A	1.34 A	746 A	-15 A	241 A
2/16/2002	1.31 A	0.88 A	1.07 A	476 A	-154 A	148 A
2/17/2002	0.90 A	0.13 A	0.47 A	472 A	-147 A	122 A
2/18/2002	1.55 A	0.70 A	1.08 A	612 A	-198 A	60 A
2/19/2002	P	P	P	P	P	152 A
2/20/2002	1.42 A	0.63 A	1.06 A	650 A	-176 A	99 A
2/21/2002	1.34 A	0.58 A	0.89 A	649 A	-259 A	115 A
2/22/2002	1.33 A	0.79 A	1.02 A	279 A	-166 A	72 A
2/23/2002	P	P	P	P	P	50 A e
2/24/2002	P	P	P	P	P	150 A e
2/25/2002	P	P	P	P	P	250 A e
2/26/2002	P	P	P	P	P	200 A e
2/27/2002	P	P	P	P	P	150 A e
2/28/2002	1.37 A	-0.29 A	0.76 A	433 A	-441 A	8.1 A
3/1/2002	1.56 A	0.29 A	1.02 A	260 A	-345 A	-6.2 A
3/2/2002	2.30 A	1.03 A	1.70 A	738 A	-527 A	-71 A
3/3/2002	2.30 A	0.54 A	1.17 A	1,640 A	-6.5 A	668 A
3/4/2002	1.70 A	0.88 A	1.18 A	1,390 A	315 A	849 A
3/5/2002	1.71 A	1.04 A	1.41 A	1,590 A	631 A	1,030 A
3/6/2002	1.28 A	0.67 A	1.01 A	1,630 A	400 A	984 A
3/7/2002	1.07 A	0.62 A	0.86 A	1,090 A	233 A	576 A
3/8/2002	1.32 A	0.55 A	0.84 A	699 A	40 A	370 A
3/9/2002	1.23 A	0.48 A	0.77 A	832 A	-6.1 A	294 A
3/10/2002	0.76 A	-0.27 A	0.20 A	527 A	38 A	233 A
3/11/2002	2.23 A	0.34 A	1.46 A	1,270 A	-763 A	151 A
3/12/2002	1.20 A	0.15 A	0.65 A	602 A	-339 A	214 A
3/13/2002	1.44 A	0.36 A	0.81 A	455 A	-528 A	147 A
3/14/2002	1.53 A	0.46 A	1.13 A	796 A	-238 A	305 A
3/15/2002	1.23 A	0.73 A	1.05 A	889 A	269 A	582 A
3/16/2002	0.97 A	0.51 A	0.78 A	1,010 A	207 A	514 A
3/17/2002	2.46 A	0.61 A	1.59 A	1,530 A	-735 A	434 A
3/18/2002	1.48 A	0.46 A	0.89 A	690 A	-362 A	315 A
3/19/2002	2.19 A	1.04 A	1.74 A	875 A	-511 A	173 A
3/20/2002	1.99 A	0.62 A	1.20 A	782 A	61 A	332 A
3/21/2002	2.44 A	0.86 A	1.71 A	1,410 A	-773 A	237 A
3/22/2002	2.42 A	0.06 A	1.38 A	1,610 A	-879 A	292 A
3/23/2002	1.82 A	0.36 A	1.11 A	824 A	-184 A	326 A
3/24/2002	1.32 A	0.36 A	0.79 A	410 A	-98 A	204 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
3/25/2002	1.22 A	0.66 A	0.91 A	557 A	5.3 A	215 A
3/26/2002	1.46 A	0.69 A	0.98 A	664 A	-239 A	204 A
3/27/2002	2.10 A	0.46 A	1.20 A	1,330 A	-476 A	198 A
3/28/2002	2.26 A	1.34 A	1.76 A	1,560 A	-631 A	404 A
3/29/2002	1.92 A	0.99 A	1.51 A	935 A	-197 A	377 A
3/30/2002	1.34 A	0.60 A	0.98 A	586 A	-29 A	227 A
3/31/2002	1.60 A	1.08 A	1.25 A	816 A	-111 A	280 A
4/1/2002	2.00 A	1.04 A	1.52 A	1,870 A	370 A	866 A
4/2/2002	2.24 A	1.73 A	2.00 A	2,350 A	845 A	1,450 A
4/3/2002	2.11 A	1.56 A	2.00 A	2,530 A	1,160 A	1,790 A
4/4/2002	3.19 A	1.54 A	2.70 A	2,900 A	-401 A	1,260 A
4/5/2002	2.71 A	2.40 A	2.60 A	2,710 A	774 A	1,610 A
4/6/2002	2.55 A	1.82 A	2.23 A	3,140 A	-117 A	1,270 A
4/7/2002	2.35 A	1.88 A	2.12 A	1,740 A	341 A	928 A
4/8/2002	1.94 A	1.14 A	1.62 A	1,220 A	161 A	620 A
4/9/2002	1.52 A	0.98 A	1.28 A	913 A	51 A	344 A
4/10/2002	2.34 A	1.05 A	1.48 A	623 A	-856 A	106 A
4/11/2002	2.28 A	1.61 A	1.81 A	1,580 A	-90 A	514 A
4/12/2002	1.93 A	1.17 A	1.49 A	1,230 A	5.5 A	416 A
4/13/2002	1.41 A	1.07 A	1.21 A	835 A	17 A	308 A
4/14/2002	1.32 A	0.88 A	1.12 A	543 A	40 A	280 A
4/15/2002	1.10 A	0.52 A	0.89 A	613 A	62 A	293 A
4/16/2002	1.17 A	0.48 A	0.84 A	725 A	-108 A	283 A
4/17/2002	1.06 A	0.51 A	0.75 A	631 A	-97 A	231 A
4/18/2002	1.05 A	0.40 A	0.69 A	496 A	50 A	198 A
4/19/2002	0.91 A	-0.23 A	0.45 A	754 A	-209 A	219 A
4/20/2002	1.58 A	0.00 A	0.76 A	796 A	-688 A	106 A
4/21/2002	2.21 A	0.96 A	1.47 A	1,590 A	-798 A	34 A
4/22/2002	2.32 A	0.81 A	1.42 A	2,020 A	-783 A	317 A
4/23/2002	2.49 A	1.24 A	1.90 A	2,140 A	-1,120 A	84 A
4/24/2002	2.39 A	1.51 A	1.91 A	1,580 A	-692 A	276 A
4/25/2002	1.78 A	0.11 A	0.98 A	554 A	-125 A	194 A
4/26/2002	2.48 A	0.11 A	1.80 A	1,740 A	-849 A	60 A
4/27/2002	2.07 A	1.22 A	1.62 A	1,160 A	-558 A	118 A
4/28/2002	1.45 A	-0.42 A	0.89 A	587 A	-206 A	158 A
4/29/2002	2.06 A	-0.46 A	0.80 A	428 A	-741 A	-133 A
4/30/2002	2.23 A	0.57 A	1.53 A	1,530 A	-880 A	235 A
5/1/2002	1.56 A	0.51 A	1.20 A	487 A	-248 A	38 A
5/2/2002	1.60 A	0.28 A	0.93 A	551 A	-385 A	120 A
5/3/2002	2.24 A	0.60 A	1.40 A	1,120 A	-1,020 A	-113 A
5/4/2002	2.56 A	1.50 A	2.11 A	1,450 A	-1,020 A	220 A
5/5/2002	1.94 A	0.98 A	1.46 A	1,080 A	-346 A	153 A
5/6/2002	1.92 A	0.97 A	1.57 A	539 A	-361 A	97 A
5/7/2002	1.08 A	0.28 A	0.79 A	466 A	-218 A	107 A
5/8/2002	P	P	P	P	P	20 A e
5/9/2002	1.56 A	-0.07 A	0.95 A	708 A	-299 A	140 A
5/10/2002	1.37 A	-0.07 A	0.73 A	447 A	-489 A	6.3 A
5/11/2002	2.39 A	0.82 A	1.60 A	1,420 A	-1,060 A	8.7 A
5/12/2002	1.46 A	0.21 A	0.94 A	648 A	-119 A	168 A
5/13/2002	0.34 A	-1.07 A	-0.03 A	492 A	-211 A	105 A
5/14/2002	0.58 A	-1.55 A	-0.24 A	286 A	-533 A	-34 A
5/15/2002	1.22 A	0.36 A	0.74 A	458 A	-453 A	17 A
5/16/2002	0.81 A	-0.41 A	0.46 A	803 A	-161 A	124 A
5/17/2002	0.53 A	-0.40 A	0.17 A	442 A	-322 A	27 A
5/18/2002	1.69 A	-1.54 A	-0.07 A	495 A	-798 A	-67 A
5/19/2002	2.03 A	0.81 A	1.46 A	794 A	-512 A	-21 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
5/20/2002	2.02 A	1.33 A	1.74 A	741 A	-351 A	82 A
5/21/2002	2.03 A	1.14 A	1.52 A	649 A	-620 A	39 A
5/22/2002	2.24 A	1.76 A	2.02 A	632 A	-697 A	-52 A
5/23/2002	2.13 A	1.33 A	1.56 A	1,370 A	-357 A	210 A
5/24/2002	1.44 A	0.20 A	0.85 A	638 A	-268 A	106 A
5/25/2002	1.39 A	0.21 A	0.82 A	317 A	-372 A	-30 A
5/26/2002	1.22 A	0.61 A	0.98 A	440 A	-314 A	75 A
5/27/2002	1.65 A	0.73 A	1.17 A	550 A	-426 A	16 A
5/28/2002	1.73 A	0.89 A	1.36 A	287 A	-341 A	-9.4 A
5/29/2002	1.93 A	1.17 A	1.65 A	723 A	-567 A	5.3 A
5/30/2002	1.88 A	1.15 A	1.58 A	692 A	-476 A	48 A
5/31/2002	P	P	P	P	P	67 A
6/1/2002	P	P	P	P	P	51 A
6/2/2002	1.35 A	0.29 A	0.91 A	235 A	-356 A	-19 A
6/3/2002	2.21 A	1.30 A	1.79 A	1,010 A	-878 A	-112 A
6/4/2002	2.27 A	1.04 A	1.54 A	1,700 A	-762 A	271 A
6/5/2002	1.46 A	0.45 A	1.06 A	611 A	-260 A	97 A
6/6/2002	P	P	P	P	P	65 A
6/7/2002	2.32 A	0.33 A	1.25 A	186 A	-933 A	-192 A
6/8/2002	2.38 A	1.80 A	2.13 A	860 A	-768 A	24 A
6/9/2002	2.16 A	1.38 A	1.79 A	1,120 A	-422 A	200 A
6/10/2002	1.73 A	1.04 A	1.40 A	937 A	-287 A	64 A
6/11/2002	1.58 A	0.51 A	1.15 A	667 A	-249 A	89 A
6/12/2002	1.19 A	0.11 A	0.81 A	670 A	-532 A	47 A
6/13/2002	1.51 A	0.04 A	0.69 A	866 A	-368 A	17 A
6/14/2002	1.58 A	-0.17 A	0.62 A	810 A	-570 A	38 A
6/15/2002	1.66 A	0.60 A	1.27 A	457 A	-456 A	-12 A
6/16/2002	2.20 A	0.94 A	1.63 A	1,360 A	-807 A	58 A
6/17/2002	2.19 A	1.01 A	1.55 A	1,050 A	-820 A	22 A
6/18/2002	2.13 A	1.50 A	1.79 A	1,510 A	-559 A	97 A
6/19/2002	2.29 A	1.22 A	1.84 A	1,280 A	-759 A	63 A
6/20/2002	2.53 A	1.42 A	2.12 A	674 A	-882 A	-206 A
6/21/2002	2.80 A	2.08 A	2.42 A	1,760 A	-989 A	162 A
6/22/2002	2.18 A	1.30 A	1.85 A	1,710 A	-368 A	405 A
6/23/2002	1.93 A	1.11 A	1.39 A	1,140 A	-650 A	87 A
6/24/2002	1.34 A	0.52 A	1.02 A	454 A	-303 A	83 A
6/25/2002	1.22 A	0.30 A	0.82 A	588 A	-177 A	62 A
6/26/2002	0.85 A	-0.17 A	0.50 A	338 A	-253 A	70 A
6/27/2002	P	P	P	P	P	75 A
6/28/2002	0.67 A	-0.70 A	-0.05 A	272 A	-373 A	-26 A
6/29/2002	1.21 A	-0.08 A	0.76 A	492 A	-386 A	-4.7 A
6/30/2002	1.52 A	0.77 A	1.12 A	275 A	-343 A	-7.6 A
7/1/2002	1.52 A	0.60 A	0.99 A	566 A	-187 A	74 A
7/2/2002	1.02 A	0.50 A	0.77 A	398 A	-187 A	89 A
7/3/2002	0.90 A	-0.03 A	0.48 A	462 A	-354 A	82 A
7/4/2002	0.88 A	-0.01 A	0.34 A	748 A	-304 A	51 A
7/5/2002	0.84 A	-0.07 A	0.59 A	582 A	-359 A	38 A
7/6/2002	1.73 A	-0.07 A	1.12 A	487 A	-637 A	-55 A
7/7/2002	1.76 A	0.67 A	1.04 A	917 A	-294 A	160 A
7/8/2002	1.20 A	0.36 A	0.77 A	719 A	-186 A	104 A
7/9/2002	0.81 A	-0.44 A	0.43 A	608 A	-196 A	100 A
7/10/2002	0.57 A	-0.70 A	-0.19 A	320 A	-447 A	0.5
7/11/2002	1.90 A	-0.52 A	0.94 A	405 A	-754 A	-130 A
7/12/2002	1.94 A	1.33 A	1.64 A	868 A	-460 A	84 A
7/13/2002	1.62 A	1.10 A	1.29 A	330 A	-356 A	62 A
7/14/2002	1.76 A	0.94 A	1.24 A	672 A	-527 A	25 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
7/15/2002	1.75 A	0.72 A	1.21 A	656 A	-325 A	38 A
7/16/2002	1.54 A	0.78 A	1.02 A	830 A	-156 A	155 A
7/17/2002	1.50 A	0.64 A	1.16 A	438 A	-305 A	50 A
7/18/2002	1.43 A	0.51 A	0.99 A	495 A	-156 A	111 A
7/19/2002	0.96 A	0.30 A	0.62 A	491 A	-367 A	63 A
7/20/2002	1.88 A	0.30 A	0.90 A	256 A	-946 A	-59 A
7/21/2002	2.02 A	0.91 A	1.51 A	973 A	-891 A	76 A
7/22/2002	1.71 A	0.58 A	1.33 A	612 A	-274 A	79 A
7/23/2002	1.36 A	0.17 A	0.88 A	429 A	-292 A	65 A
7/24/2002	1.23 A	0.28 A	0.78 A	275 A	-350 A	9.5 A
7/25/2002	1.67 A	0.21 A	0.86 A	874 A	-735 A	40 A
7/26/2002	1.94 A	0.81 A	1.42 A	1,160 A	-640 A	16 A
7/27/2002	1.97 A	0.57 A	1.30 A	1,410 A	-1,010 A	90 A
7/28/2002	1.70 A	0.44 A	1.16 A	1,470 A	-448 A	177 A
7/29/2002	1.30 A	0.37 A	0.95 A	441 A	-255 A	93 A
7/30/2002	1.42 A	0.66 A	1.04 A	450 A	-236 A	35 A
7/31/2002	1.94 A	1.11 A	1.53 A	910 A	-458 A	61 A
8/1/2002	1.62 A	1.40 A	1.51 A	273 A	-170 A	42 A
8/2/2002	1.79 A	1.19 A	1.55 A	483 A	-704 A	46 A
8/3/2002	2.29 A	1.40 A	1.84 A	1,720 A	-931 A	-27 A
8/4/2002	2.19 A	1.64 A	1.88 A	1,440 A	-647 A	111 A
8/5/2002	1.95 A	1.33 A	1.78 A	742 A	-435 A	53 A
8/6/2002	2.50 A	1.20 A	1.53 A	645 A	-1,050 A	-159 A
8/7/2002	2.65 A	2.07 A	2.26 A	1,210 A	-1,090 A	13 A
8/8/2002	2.56 A	1.90 A	2.28 A	1,410 A	-921 A	20 A
8/9/2002	2.22 A	1.55 A	1.96 A	923 A	-603 A	125 A
8/10/2002	2.11 A	1.43 A	1.82 A	666 A	-609 A	81 A
8/11/2002	1.90 A	1.30 A	1.53 A	1,050 A	-483 A	65 A
8/12/2002	1.54 A	0.83 A	1.22 A	1,100 A	-286 A	102 A
8/13/2002	1.57 A	0.69 A	1.09 A	668 A	-359 A	15 A
8/14/2002	1.56 A	0.68 A	1.16 A	468 A	-348 A	3.5 A
8/15/2002	1.31 A	0.81 A	1.09 A	405 A	-329 A	38 A
8/16/2002	1.24 A	0.52 A	0.88 A	536 A	-397 A	27 A
8/17/2002	1.28 A	0.31 A	0.63 A	656 A	-361 A	47 A
8/18/2002	1.12 A	0.11 A	0.62 A	577 A	-560 A	66 A
8/19/2002	1.47 A	0.33 A	0.99 A	640 A	-551 A	56 A
8/20/2002	1.22 A	0.38 A	0.91 A	681 A	-520 A	36 A
8/21/2002	2.22 A	0.94 A	1.67 A	1,380 A	-827 A	-31 A
8/22/2002	P	P	P	P	P	148 A
8/23/2002	1.61 A	0.24 A	0.93 A	469 A	-773 A	3.8 A
8/24/2002	1.46 A	0.17 A	0.93 A	1,200 A	-354 A	103 A
8/25/2002	1.91 A	0.13 A	1.25 A	1,230 A	-751 A	-7.2 A
8/26/2002	2.09 A	0.91 A	1.56 A	1,580 A	-682 A	136 A
8/27/2002	1.79 A	0.70 A	1.33 A	592 A	-454 A	37 A
8/28/2002	2.05 A	1.24 A	1.61 A	1,630 A	-810 A	77 A
8/29/2002	2.14 A	1.12 A	1.66 A	1,290 A	-681 A	244 A
8/30/2002	2.13 A	1.51 A	1.85 A	1,170 A	-495 A	58 A
8/31/2002	2.88 A	2.13 A	2.59 A	1,390 A	-750 A	-108 A
9/1/2002	2.56 A	1.44 A	1.93 A	1,770 A	-618 A	577 A
9/2/2002	2.12 A	1.77 A	1.99 A	472 A	-345 A	36 A
9/3/2002	2.18 A	1.77 A	2.01 A	1,310 A	-491 A	149 A
9/4/2002	1.86 A	1.10 A	1.59 A	904 A	-302 A	136 A
9/5/2002	P	P	P	P	P	-46 A
9/6/2002	2.41 A	1.77 A	2.14 A	1,530 A	-864 A	1.1 A
9/7/2002	2.42 A	2.11 A	2.26 A	984 A	-719 A	55 A
9/8/2002	2.42 A	2.19 A	2.30 A	439 A	-595 A	-43 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
9/9/2002	2.77 A	2.01 A	2.46 A	1,410 A	-776 A	-76 A
9/10/2002	3.09 A	2.68 A	2.91 A	1,720 A	-706 A	138 A
9/11/2002	2.68 A	1.90 A	2.15 A	1,770 A	-565 A	542 A
9/12/2002	2.83 A	2.31 A	2.50 A	1,630 A	-1,130 A	-5.8 A
9/13/2002	2.49 A	1.72 A	2.02 A	969 A	-329 A	288 A
9/14/2002	1.94 A	1.05 A	1.53 A	950 A	-473 A	100 A
9/15/2002	1.75 A	1.07 A	1.41 A	629 A	-344 A	51 A
9/16/2002	1.69 A	0.51 A	1.08 A	794 A	-370 A	102 A
9/17/2002	1.90 A	1.05 A	1.42 A	328 A	-507 A	3.9 A
9/18/2002	2.07 A	1.24 A	1.74 A	1,520 A	-568 A	104 A
9/19/2002	2.02 A	1.33 A	1.74 A	1,160 A	-341 A	98 A
9/20/2002	1.98 A	1.42 A	1.68 A	804 A	-557 A	30 A
9/21/2002	2.01 A	1.25 A	1.66 A	679 A	-522 A	40 A
9/22/2002	2.10 A	1.46 A	1.83 A	1,070 A	-488 A	18 A
9/23/2002	2.42 A	1.31 A	1.75 A	748 A	-877 A	-143 A
9/24/2002	2.41 A	2.01 A	2.21 A	982 A	-569 A	31 A
9/25/2002	2.81 A	2.33 A	2.53 A	533 A	-684 A	-168 A
9/26/2002	2.94 A	1.94 A	2.38 A	1,800 A	-907 A	547 A
9/27/2002	2.12 A	1.24 A	1.77 A	968 A	-307 A	188 A
9/28/2002	2.55 A	1.13 A	1.71 A	533 A	-1,060 A	-173 A
9/29/2002	2.62 A	2.19 A	2.37 A	481 A	-702 A	-77 A
9/30/2002	2.70 A	2.23 A	2.52 A	1,350 A	-718 A	206 A
10/1/2002	2.23 A	1.68 A	1.89 A	969 A	-354 A	302 A
10/2/2002	1.86 A	1.35 A	1.56 A	479 A	-352 A	83 A
10/3/2002	1.70 A	1.01 A	1.33 A	612 A	-454 A	48 A
10/4/2002	2.02 A	1.06 A	1.55 A	1,220 A	-590 A	41 A
10/5/2002	1.57 A	0.94 A	1.34 A	502 A	-448 A	32 A
10/6/2002	2.52 A	1.12 A	1.89 A	766 A	-1,130 A	-123 A
10/7/2002	2.01 A	1.37 A	1.77 A	692 A	-502 A	86 A
10/8/2002	2.83 A	1.61 A	2.36 A	736 A	-1,050 A	-433 A
10/9/2002	2.85 A	2.14 A	2.46 A	1,330 A	-743 A	397 A
10/10/2002	2.18 A	1.86 A	2.03 A	959 A	-437 A	125 A
10/11/2002	2.13 A	1.29 A	1.92 A	885 A	-456 A	283 A
10/12/2002	2.26 A	1.05 A	1.69 A	682 A	-664 A	-118 A
10/13/2002	2.42 A	1.98 A	2.20 A	797 A	-533 A	142 A
10/14/2002	3.30 A	2.20 A	2.73 A	1,050 A	-1,190 A	-309 A
10/15/2002	3.98 A	3.16 A	3.43 A	1,020 A	-1,560 A	-274 A
10/16/2002	4.39 A	2.54 A	3.54 A	2,190 A	-2,020 A	953 A
10/17/2002	2.78 A	2.37 A	2.63 A	1,510 A	-623 A	375 A
10/18/2002	2.52 A	2.25 A	2.41 A	992 A	-552 A	166 A
10/19/2002	2.40 A	1.71 A	2.19 A	897 A	-280 A	269 A
10/20/2002	2.05 A	1.55 A	1.78 A	675 A	-453 A	91 A
10/21/2002	2.41 A	1.70 A	1.98 A	580 A	-890 A	-182 A
10/22/2002	2.40 A	1.96 A	2.17 A	845 A	-636 A	124 A
10/23/2002	P	P	P	557 A	-468 A	P
10/24/2002	P	P	P	1,290 A	-1,200 A	P
10/25/2002	2.66 A	2.18 A	2.42 A	1,460 A	-958 A	207 A
10/26/2002	2.18 A	1.31 A	1.69 A	1,250 A	-646 A	235 A
10/27/2002	2.23 A	1.42 A	1.93 A	789 A	-615 A	80 A
10/28/2002	2.09 A	1.23 A	1.80 A	923 A	-617 A	107 A
10/29/2002	2.48 A	1.50 A	2.01 A	973 A	-1,010 A	76 A
10/30/2002	2.03 A	1.17 A	1.57 A	933 A	-534 A	106 A
10/31/2002	2.08 A	1.17 A	1.70 A	399 A	-674 A	-40 A
11/1/2002	2.04 A	1.08 A	1.69 A	772 A	-316 A	165 A
11/2/2002	1.91 A	0.80 A	1.39 A	698 A	-639 A	100 A
11/3/2002	1.96 A	1.19 A	1.59 A	528 A	-570 A	25 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
11/4/2002	1.79 A	1.22 A	1.49 A	540 A	-578 A	61 A
11/5/2002	2.41 A	1.54 A	2.12 A	998 A	-681 A	-176 A
11/6/2002	2.13 A	0.68 A	1.16 A	1,300 A	-635 A	358 A
11/7/2002	P	P	P	953 A	-837 A	P
11/8/2002	1.93 A	1.38 A	1.67 A	976 A	-310 A	201 A
11/9/2002	1.60 A	1.33 A	1.46 A	356 A	-191 A	67 A
11/10/2002	1.65 A	1.18 A	1.35 A	491 A	-485 A	96 A
11/11/2002	1.41 A	0.46 A	1.05 A	598 A	-552 A	67 A
11/12/2002	1.75 A	0.50 A	1.24 A	1,050 A	-798 A	87 A
11/13/2002	1.98 A	0.78 A	1.40 A	1,060 A	-886 A	210 A
11/14/2002	1.78 A	1.42 A	1.62 A	801 A	-22 A	466 A
11/15/2002	1.80 A	1.36 A	1.58 A	846 A	285 A	553 A
11/16/2002	1.90 A	1.30 A	1.66 A	920 A	86 A	437 A
11/17/2002	1.74 A	0.87 A	1.47 A	1,110 A	-35 A	415 A
11/18/2002	2.03 A	0.93 A	1.50 A	923 A	-617 A	378 A
11/19/2002	1.89 A	1.55 A	1.78 A	905 A	334 A	625 A
11/20/2002	1.96 A	1.55 A	1.71 A	698 A	55 A	447 A
11/21/2002	1.85 A	1.39 A	1.69 A	694 A	-35 A	350 A
11/22/2002	1.64 A	0.40 A	1.21 A	505 A	131 A	321 A
11/23/2002	1.56 A	0.34 A	0.99 A	475 A	-342 A	151 A
11/24/2002	1.43 A	0.90 A	1.15 A	362 A	-34 A	188 A
11/25/2002	1.35 A	1.12 A	1.20 A	338 A	24 A	151 A
11/26/2002	1.70 A	1.08 A	1.31 A	496 A	-329 A	98 A
11/27/2002	1.63 A	1.03 A	1.29 A	418 A	-189 A	111 A
11/28/2002	1.86 A	1.28 A	1.56 A	664 A	-591 A	99 A
11/29/2002	1.45 A	-0.05 A	0.90 A	574 A	-187 A	195 A
11/30/2002	0.84 A	-0.34 A	0.13 A	472 A	-478 A	53 A
12/1/2002	1.00 A	-0.07 A	0.51 A	460 A	-349 A	51 A
12/2/2002	1.15 A	0.66 A	0.86 A	329 A	-62 A	109 A
12/3/2002	2.25 A	0.13 A	1.03 A	1,180 A	-965 A	-45 A
12/4/2002	1.92 A	0.79 A	1.46 A	915 A	-675 A	84 A
12/5/2002	2.01 A	0.14 A	1.18 A	1,080 A	-265 A	227 A
12/6/2002	1.70 A	0.70 A	1.24 A	584 A	-356 A	182 A
12/7/2002	1.71 A	0.96 A	1.26 A	672 A	-153 A	308 A
12/8/2002	P	P	P	520 A	-130 A	P
12/9/2002	2.17 A	0.64 A	1.44 A	1,000 A	-807 A	135 A
12/10/2002	1.93 A	1.07 A	1.43 A	550 A	-304 A	103 A
12/11/2002	1.85 A	0.72 A	1.20 A	682 A	24 A	270 A
12/12/2002	1.43 A	0.68 A	1.06 A	395 A	-405 A	115 A
12/13/2002	2.59 A	1.31 A	1.91 A	1,470 A	-1,180 A	73 A
12/14/2002	1.31 A	0.03 A	0.72 A	1,090 A	-268 A	308 A
12/15/2002	1.60 A	0.80 A	1.14 A	558 A	-123 A	283 A
12/16/2002	2.00 A	0.52 A	0.97 A	587 A	-998 A	200 A
12/17/2002	2.05 A	1.23 A	1.63 A	961 A	-867 A	208 A
12/18/2002	2.18 A	1.43 A	1.81 A	984 A	-709 A	222 A
12/19/2002	1.74 A	1.29 A	1.54 A	445 A	-222 A	202 A
12/20/2002	1.51 A	0.68 A	1.12 A	539 A	-297 A	195 A
12/21/2002	1.43 A	0.66 A	1.04 A	373 A	-34 A	143 A
12/22/2002	1.25 A	0.40 A	0.91 A	516 A	-316 A	229 A
12/23/2002	1.32 A	0.72 A	1.04 A	461 A	23 A	170 A
12/24/2002	2.79 A	1.00 A	1.70 A	721 A	-1,430 A	-318 A
12/25/2002	2.61 A	-0.32 A	0.97 A	1,640 A	49 A	728 A
12/26/2002	1.53 A	-0.24 A	0.62 A	473 A	-379 A	135 A
12/27/2002	1.52 A	1.09 A	1.28 A	490 A	-6.1 A	213 A
12/28/2002	1.45 A	1.06 A	1.22 A	394 A	-102 A	196 A
12/29/2002	1.94 A	0.43 A	1.10 A	565 A	-729 A	49 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
12/30/2002	1.83 A	1.13 A	1.39 A	872 A	-141 A	238 A
12/31/2002	1.55 A	1.07 A	1.31 A	428 A	-169 A	130 A
1/1/2003	1.76 A	1.09 A	1.52 A	631 A	-201 A	199 A
1/2/2003	2.35 A	1.00 A	1.61 A	701 A	-862 A	-45 A
1/3/2003	2.16 A	1.27 A	1.78 A	1,030 A	-95 A	386 A
1/4/2003	2.01 A	1.15 A	1.58 A	673 A	-374 A	136 A
1/5/2003	1.97 A	1.69 A	1.85 A	731 A	-76 A	207 A
1/6/2003	1.79 A	0.77 A	1.57 A	608 A	-94 A	254 A
1/7/2003	1.56 A	0.30 A	0.96 A	516 A	-563 A	131 A
1/8/2003	1.73 A	0.03 A	0.66 A	581 A	-542 A	93 A
1/9/2003	1.67 A	0.42 A	0.93 A	546 A	-493 A	147 A
1/10/2003	1.39 A	0.90 A	1.16 A	306 A	-63 A	88 A
1/11/2003	1.59 A	1.22 A	1.38 A	417 A	-269 A	116 A
1/12/2003	1.80 A	0.97 A	1.35 A	804 A	-400 A	92 A
1/13/2003	1.42 A	0.41 A	0.94 A	365 A	-72 A	173 A
1/14/2003	1.83 A	0.41 A	1.00 A	650 A	-642 A	31 A
1/15/2003	1.33 A	0.24 A	0.75 A	586 A	-575 A	91 A
1/16/2003	1.69 A	0.51 A	1.08 A	525 A	-290 A	81 A
1/17/2003	1.03 A	0.06 A	0.57 A	542 A	-579 A	103 A
1/18/2003	1.67 A	0.42 A	0.91 A	507 A	-644 A	91 A
1/19/2003	0.66 A	-0.48 A	0.22 A	416 A	-369 A	90 A
1/20/2003	0.79 A	-0.97 A	0.03 A	454 A	-564 A	84 A
1/21/2003	1.73 A	-0.07 A	0.96 A	681 A	-829 A	-34 A
1/22/2003	1.53 A	1.04 A	1.25 A	472 A	-217 A	113 A
1/23/2003	2.10 A	-0.79 A	1.10 A	775 A	-600 A	169 A
1/24/2003	1.40 A	-1.01 A	0.14 A	489 A	-671 A	-2.9 A
1/25/2003	0.79 A	0.36 A	0.54 A	267 A	-164 A	80 A
1/26/2003	0.70 A	0.25 A	0.47 A	311 A	-310 A	94 A
1/27/2003	1.59 A	-0.22 A	0.51 A	531 A	-768 A	47 A
1/28/2003	1.10 A	0.04 A	0.67 A	451 A	-314 A	103 A
1/29/2003	0.78 A	0.10 A	0.39 A	404 A	-428 A	83 A
1/30/2003	0.95 A	0.26 A	0.69 A	429 A	-360 A	69 A
1/31/2003	1.00 A	0.43 A	0.66 A	418 A	-202 A	105 A
2/1/2003	0.89 A	0.22 A	0.56 A	393 A	-328 A	73 A
2/2/2003	1.24 A	0.30 A	0.75 A	442 A	-348 A	117 A
2/3/2003	1.28 A	0.34 A	0.91 A	421 A	-264 A	92 A
2/4/2003	1.27 A	-1.00 A	0.16 A	517 A	-781 A	3.7 A
2/5/2003	1.64 A	0.28 A	0.80 A	421 A	-648 A	44 A
2/6/2003	1.83 A	0.71 A	1.30 A	776 A	-584 A	128 A
2/7/2003	1.07 A	0.29 A	0.58 A	501 A	-210 A	138 A
2/8/2003	1.13 A	0.46 A	0.82 A	562 A	-72 A	260 A
2/9/2003	0.95 A	0.46 A	0.70 A	468 A	-20 A	250 A
2/10/2003	1.87 A	-0.26 A	0.78 A	940 A	-531 A	266 A
2/11/2003	0.87 A	0.20 A	0.54 A	589 A	-151 A	270 A
2/12/2003	0.69 A	-0.42 A	0.06 A	484 A	-226 A	289 A
2/13/2003	0.87 A	0.08 A	0.42 A	470 A	96 A	281 A
2/14/2003	0.69 A	0.07 A	0.45 A	414 A	-20 A	234 A
2/15/2003	1.41 A	0.04 A	0.68 A	532 A	-809 A	110 A
2/16/2003	1.89 A	0.92 A	1.39 A	705 A	-300 A	220 A
2/17/2003	1.40 A	0.70 A	1.07 A	715 A	142 A	431 A
2/18/2003	1.82 A	1.30 A	1.50 A	1,300 A	519 A	876 A
2/19/2003	2.04 A	1.72 A	1.88 A	1,430 A	756 A	1,130 A
2/20/2003	2.23 A	1.64 A	1.83 A	1,540 A	151 A	853 A
2/21/2003	2.11 A	1.67 A	1.95 A	1,240 A	353 A	763 A
2/22/2003	1.90 A	0.92 A	1.55 A	1,050 A	102 A	554 A
2/23/2003	1.99 A	-0.77 A	0.64 A	1,260 A	-425 A	552 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
2/24/2003	1.88 A	0.85 A	1.50 A	1,140 A	-54 A	680 A
2/25/2003	2.48 A	1.09 A	1.91 A	1,080 A	-698 A	320 A
2/26/2003	2.49 A	1.58 A	2.08 A	1,260 A	154 A	833 A
2/27/2003	2.19 A	1.70 A	1.93 A	669 A	87 A	372 A
2/28/2003	2.18 A	1.36 A	1.89 A	1,270 A	-345 A	525 A
3/1/2003	2.27 A	1.96 A	2.07 A	989 A	291 A	624 A
3/2/2003	2.26 A	1.60 A	1.83 A	1,240 A	547 A	852 A
3/3/2003	3.03 A	1.50 A	2.06 A	1,150 A	-1,550 A	-33 A
3/4/2003	3.03 A	2.20 A	2.56 A	1,570 A	-529 A	905 A
3/5/2003	2.20 A	1.37 A	1.84 A	1,090 A	117 A	621 A
3/6/2003	1.86 A	1.26 A	1.67 A	844 A	-65 A	478 A
3/7/2003	2.99 A	1.83 A	2.70 A	1,660 A	-1,630 A	287 A
3/8/2003	2.46 A	2.19 A	2.33 A	1,670 A	695 A	1,130 A
3/9/2003	2.32 A	2.04 A	2.15 A	1,480 A	653 A	1,050 A
3/10/2003	3.12 A	2.02 A	2.54 A	1,090 A	-930 A	184 A
3/11/2003	3.12 A	2.48 A	2.81 A	1,390 A	311 A	979 A
3/12/2003	2.48 A	2.18 A	2.34 A	1,320 A	424 A	789 A
3/13/2003	2.19 A	1.97 A	2.13 A	840 A	261 A	546 A
3/14/2003	3.11 A	1.88 A	2.62 A	851 A	-1,700 A	-152 A
3/15/2003	2.90 A	2.40 A	2.65 A	1,060 A	451 A	738 A
3/16/2003	2.58 A	2.26 A	2.42 A	969 A	-460 A	436 A
3/17/2003	2.38 A	2.18 A	2.26 A	671 A	-241 A	323 A
3/18/2003	2.57 A	2.28 A	2.44 A	899 A	-480 A	226 A
3/19/2003	2.91 A	2.47 A	2.75 A	747 A	-770 A	97 A
3/20/2003	2.98 A	2.69 A	2.84 A	1,170 A	-279 A	506 A
3/21/2003	2.78 A	2.61 A	2.67 A	1,170 A	595 A	911 A
3/22/2003	2.93 A	2.55 A	2.74 A	1,740 A	970 A	1,340 A
3/23/2003	3.24 A	2.93 A	3.05 A	2,110 A	1,100 A	1,640 A
3/24/2003	3.28 A	3.04 A	3.11 A	2,060 A	532 A	1,400 A
3/25/2003	3.25 A	2.74 A	2.96 A	1,680 A	885 A	1,240 A
3/26/2003	2.74 A	2.21 A	2.50 A	1,300 A	555 A	988 A
3/27/2003	3.13 A	2.16 A	2.73 A	1,090 A	-851 A	82 A
3/28/2003	3.01 A	2.69 A	2.84 A	1,150 A	-154 A	611 A
3/29/2003	2.69 A	2.47 A	2.59 A	843 A	220 A	530 A
3/30/2003	P	P	P	836 A	-799 A	230 A
3/31/2003	P	P	P	835 A	405 A	607 A
4/1/2003	2.15 A	0.96 A	1.84 A	782 A	302 A	497 A
4/2/2003	1.89 A	0.91 A	1.41 A	743 A	-271 A	260 A
4/3/2003	1.54 A	0.72 A	1.23 A	668 A	-190 A	277 A
4/4/2003	1.54 A	0.68 A	1.04 A	646 A	-188 A	250 A
4/5/2003	1.31 A	0.80 A	1.14 A	508 A	-100 A	203 A
4/6/2003	2.96 A	1.31 A	2.18 A	470 A	-1,650 A	-468 A
4/7/2003	3.21 A	1.99 A	2.75 A	1,850 A	-1,080 A	641 A
4/8/2003	P	P	P	1,150 A	P	P
4/9/2003	2.98 A	2.38 A	2.78 A	1,420 A	-791 A	434 A
4/10/2003	5.45 A	2.98 A	4.50 A	2,670 A	-2,170 A	-289 A
4/11/2003	4.94 A	4.05 A	4.39 A	3,220 A	2,420 A	2,850 A
4/12/2003	4.06 A	3.75 A	3.88 A	3,310 A	2,500 A	2,920 A
4/13/2003	3.97 A	3.65 A	3.78 A	2,940 A	1,380 A	2,290 A
4/14/2003	3.94 A	3.61 A	3.74 A	2,420 A	1,380 A	1,880 A
4/15/2003	3.61 A	3.23 A	3.41 A	1,880 A	908 A	1,430 A
4/16/2003	3.24 A	3.04 A	3.14 A	1,250 A	742 A	990 A
4/17/2003	3.40 A	3.01 A	3.08 A	906 A	-1,020 A	428 A
4/18/2003	3.55 A	3.30 A	3.39 A	980 A	-1,020 A	457 A
4/19/2003	3.50 A	3.33 A	3.40 A	433 A	-149 A	237 A
4/20/2003	3.51 A	3.31 A	3.41 A	755 A	-621 A	400 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
4/21/2003	3.50 A	3.03 A	3.28 A	1,040 A	-610 A	606 A
4/22/2003	3.03 A	2.62 A	2.80 A	1,080 A	350 A	680 A
4/23/2003	2.72 A	2.49 A	2.58 A	849 A	-455 A	282 A
4/24/2003	2.70 A	2.22 A	2.45 A	1,120 A	-1,030 A	327 A
4/25/2003	2.36 A	2.16 A	2.25 A	860 A	-352 A	265 A
4/26/2003	2.31 A	2.01 A	2.13 A	967 A	-452 A	337 A
4/27/2003	2.57 A	2.24 A	2.44 A	853 A	-603 A	94 A
4/28/2003	2.53 A	2.05 A	2.28 A	987 A	183 A	617 A
4/29/2003	2.05 A	1.34 A	1.82 A	900 A	-36 A	520 A
4/30/2003	2.03 A	1.33 A	1.80 A	831 A	-175 A	253 A
5/1/2003	1.95 A	1.66 A	1.82 A	686 A	-154 A	284 A
5/2/2003	2.01 A	1.77 A	1.89 A	674 A	-254 A	246 A
5/3/2003	2.63 A	1.53 A	2.02 A	1,090 A	-1,180 A	-60 A
5/4/2003	2.48 A	2.12 A	2.31 A	756 A	-558 A	155 A
5/5/2003	2.49 A	2.10 A	2.27 A	764 A	-356 A	327 A
5/6/2003	2.10 A	1.38 A	1.72 A	824 A	-482 A	380 A
5/7/2003	1.81 A	1.51 A	1.70 A	722 A	147 A	439 A
5/8/2003	1.85 A	1.15 A	1.51 A	923 A	163 A	570 A
5/9/2003	1.97 A	1.24 A	1.65 A	964 A	-673 A	465 A
5/10/2003	2.15 A	1.20 A	1.77 A	1,230 A	-673 A	336 A
5/11/2003	P	P	P	604 A	-248 A	P
5/12/2003	1.29 A	0.41 A	0.68 A	482 A	-525 A	197 A
5/13/2003	1.50 A	0.18 A	0.88 A	652 A	-525 A	146 A
5/14/2003	1.90 A	0.59 A	1.33 A	752 A	-363 A	184 A
5/15/2003	1.45 A	0.64 A	1.13 A	453 A	-308 A	99 A
5/16/2003	1.58 A	0.72 A	1.25 A	601 A	-468 A	73 A
5/17/2003	2.21 A	1.10 A	1.89 A	682 A	-933 A	-25 A
5/18/2003	2.82 A	2.08 A	2.44 A	456 A	-777 A	-272 A
5/19/2003	2.83 A	2.33 A	2.56 A	1,140 A	-368 A	588 A
5/20/2003	2.80 A	2.12 A	2.44 A	1,450 A	-321 A	890 A
5/21/2003	2.12 A	1.25 A	1.66 A	1,480 A	757 A	1,080 A
5/22/2003	1.99 A	1.15 A	1.46 A	1,050 A	-536 A	586 A
5/23/2003	2.94 A	1.79 A	2.30 A	1,340 A	-536 A	394 A
5/24/2003	3.08 A	2.51 A	2.69 A	2,230 A	-572 A	1,440 A
5/25/2003	2.94 A	2.59 A	2.76 A	2,390 A	1,530 A	1,990 A
5/26/2003	2.99 A	2.89 A	2.94 A	2,780 A	1,940 A	2,440 A
5/27/2003	3.64 A	2.93 A	3.43 A	2,750 A	1,370 A	2,230 A
5/28/2003	3.60 A	3.28 A	3.48 A	2,990 A	2,280 A	2,660 A
5/29/2003	3.29 A	2.88 A	3.10 A	2,840 A	1,830 A	2,390 A
5/30/2003	2.90 A	2.74 A	2.82 A	2,240 A	1,190 A	1,730 A
5/31/2003	2.74 A	2.54 A	2.64 A	1,610 A	867 A	1,320 A
6/1/2003	2.58 A	2.29 A	2.43 A	1,830 A	952 A	1,400 A
6/2/2003	2.94 A	2.47 A	2.80 A	1,670 A	770 A	1,140 A
6/3/2003	2.87 A	2.56 A	2.78 A	1,760 A	960 A	1,320 A
6/4/2003	2.56 A	1.85 A	2.31 A	1,500 A	940 A	1,190 A
6/5/2003	2.12 A	1.79 A	1.86 A	1,210 A	25 A	661 A
6/6/2003	2.13 A	1.95 A	2.03 A	912 A	103 A	512 A
6/7/2003	2.00 A	1.12 A	1.69 A	910 A	380 A	624 A
6/8/2003	1.78 A	1.10 A	1.45 A	834 A	-45 A	428 A
6/9/2003	P	P	P	830 A	-325 A	P
6/10/2003	2.23 A	1.77 A	1.98 A	958 A	-461 A	P
6/11/2003	P	P	P	811 A	-22 A	P
6/12/2003	1.56 A	1.09 A	1.34 A	635 A	114 A	329 A
6/13/2003	1.35 A	0.77 A	1.04 A	523 A	-43 A	261 A
6/14/2003	1.14 A	0.39 A	0.79 A	600 A	-186 A	231 A
6/15/2003	1.28 A	0.41 A	0.93 A	448 A	-192 A	158 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
6/16/2003	2.55 A	0.80 A	2.07 A	1,080 A	-1,290 A	-286 A
6/17/2003	2.74 A	2.19 A	2.41 A	1,100 A	-1,280 A	281 A
6/18/2003	2.19 A	1.33 A	1.78 A	1,160 A	-1,080 A	426 A
6/19/2003	1.97 A	1.23 A	1.60 A	779 A	-415 A	169 A
6/20/2003	1.95 A	0.92 A	1.65 A	761 A	-524 A	70 A
6/21/2003	2.34 A	1.44 A	1.88 A	1,310 A	-912 A	110 A
6/22/2003	2.02 A	1.40 A	1.72 A	1,090 A	-536 A	101 A
6/23/2003	2.04 A	1.13 A	1.54 A	970 A	-497 A	182 A
6/24/2003	1.98 A	1.37 A	1.61 A	527 A	-605 A	25 A
6/25/2003	1.98 A	1.10 A	1.51 A	749 A	-396 A	181 A
6/26/2003	1.28 A	0.94 A	1.11 A	437 A	-217 A	113 A
6/27/2003	1.39 A	0.75 A	1.04 A	505 A	-339 A	113 A
6/28/2003	1.60 A	0.70 A	1.08 A	753 A	-395 A	81 A
6/29/2003	1.66 A	1.01 A	1.39 A	634 A	-400 A	73 A
6/30/2003	1.50 A	0.90 A	1.29 A	408 A	-294 A	77 A
7/1/2003	1.59 A	0.73 A	1.22 A	509 A	-555 A	84 A
7/2/2003	2.24 A	0.75 A	1.64 A	1,380 A	-807 A	107 A
7/3/2003	1.18 A	0.11 A	0.56 A	1,060 A	-381 A	433 A
7/4/2003	1.62 A	0.41 A	1.16 A	872 A	-179 A	569 A
7/5/2003	1.14 A	0.56 A	0.87 A	967 A	446 A	762 A
7/6/2003	1.12 A	0.35 A	0.75 A	869 A	290 A	661 A
7/7/2003	1.09 A	0.34 A	0.66 A	767 A	-6.0 A	454 A
7/8/2003	1.43 A	0.33 A	0.73 A	649 A	-282 A	257 A
7/9/2003	1.41 A	0.52 A	0.92 A	588 A	-323 A	194 A
7/10/2003	1.61 A	0.43 A	1.10 A	570 A	-677 A	118 A
7/11/2003	0.77 A	0.14 A	0.42 A	625 A	-267 A	135 A
7/12/2003	1.35 A	-0.07 A	0.82 A	553 A	-650 A	75 A
7/13/2003	2.09 A	0.76 A	1.34 A	1,740 A	-543 A	439 A
7/14/2003	2.02 A	1.51 A	1.77 A	1,390 A	-166 A	705 A
7/15/2003	2.01 A	1.56 A	1.79 A	1,040 A	71 A	573 A
7/16/2003	1.74 A	1.03 A	1.56 A	820 A	-35 A	508 A
7/17/2003	1.83 A	0.94 A	1.35 A	838 A	-666 A	287 A
7/18/2003	1.79 A	1.03 A	1.41 A	593 A	-85 A	293 A
7/19/2003	1.31 A	0.67 A	1.08 A	555 A	-157 A	178 A
7/20/2003	1.66 A	1.31 A	1.53 A	420 A	-211 A	112 A
7/21/2003	1.65 A	0.91 A	1.31 A	539 A	-63 A	229 A
7/22/2003	0.92 A	-0.08 A	0.40 A	456 A	92 A	240 A
7/23/2003	0.73 A	-0.12 A	0.18 A	467 A	-319 A	126 A
7/24/2003	1.00 A	0.10 A	0.49 A	590 A	-282 A	172 A
7/25/2003	1.47 A	0.71 A	1.04 A	869 A	281 A	535 A
7/26/2003	1.58 A	0.96 A	1.25 A	959 A	388 A	677 A
7/27/2003	1.19 A	0.45 A	0.93 A	850 A	478 A	641 A
7/28/2003	0.66 A	0.07 A	0.39 A	803 A	138 A	466 A
7/29/2003	1.14 A	0.07 A	0.56 A	696 A	-91 A	283 A
7/30/2003	1.52 A	0.30 A	0.74 A	793 A	-855 A	215 A
7/31/2003	1.70 A	0.33 A	0.95 A	1,000 A	-736 A	175 A
8/1/2003	1.18 A	0.62 A	0.82 A	524 A	-157 A	251 A
8/2/2003	1.28 A	0.69 A	0.89 A	534 A	-176 A	212 A
8/3/2003	1.26 A	0.69 A	0.99 A	519 A	-205 A	155 A
8/4/2003	1.46 A	0.35 A	0.90 A	703 A	-251 A	174 A
8/5/2003	1.32 A	0.22 A	0.75 A	689 A	-293 A	228 A
8/6/2003	0.91 A	0.43 A	0.69 A	716 A	-61 A	306 A
8/7/2003	1.33 A	0.47 A	0.80 A	921 A	-119 A	529 A
8/8/2003	1.68 A	0.60 A	1.19 A	1,140 A	376 A	707 A
8/9/2003	1.81 A	0.66 A	1.28 A	1,140 A	-253 A	763 A
8/10/2003	1.68 A	0.66 A	1.45 A	1,180 A	175 A	768 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
8/11/2003	1.86 A	0.93 A	1.38 A	1,480 A	425 A	1,050 A
8/12/2003	1.97 A	1.35 A	1.67 A	1,560 A	612 A	1,010 A
8/13/2003	1.87 A	1.48 A	1.73 A	1,520 A	701 A	1,010 A
8/14/2003	1.81 A	1.66 A	1.74 A	1,220 A	578 A	893 A
8/15/2003	1.76 A	1.55 A	1.67 A	1,130 A	515 A	773 A
8/16/2003	1.65 A	1.23 A	1.42 A	940 A	389 A	683 A
8/17/2003	1.54 A	0.98 A	1.27 A	783 A	267 A	522 A
8/18/2003	2.19 A	1.22 A	1.97 A	1,250 A	-737 A	281 A
8/19/2003	2.72 A	2.19 A	2.43 A	629 A	-245 A	193 A
8/20/2003	P	P	P	691 A	91 A	396 A
8/21/2003	2.79 A	2.68 A	2.73 A	724 A	9.7 A	400 A
8/22/2003	2.66 A	2.32 A	2.52 A	834 A	282 A	529 A
8/23/2003	2.28 A	1.96 A	2.10 A	817 A	-237 A	389 A
8/24/2003	2.41 A	2.13 A	2.31 A	770 A	-688 A	198 A
8/25/2003	2.39 A	1.55 A	2.06 A	1,090 A	-149 A	667 A
8/26/2003	1.56 A	1.36 A	1.47 A	768 A	252 A	420 A
8/27/2003	1.48 A	1.10 A	1.28 A	604 A	69 A	306 A
8/28/2003	1.53 A	0.87 A	1.14 A	588 A	-180 A	218 A
8/29/2003	1.50 A	0.68 A	1.04 A	629 A	-413 A	160 A
8/30/2003	1.28 A	0.48 A	0.87 A	617 A	-270 A	137 A
8/31/2003	1.48 A	0.39 A	0.89 A	614 A	-475 A	96 A
9/1/2003	1.34 A	0.74 A	1.06 A	453 A	-362 A	112 A
9/2/2003	1.25 A	0.54 A	0.86 A	520 A	-330 A	64 A
9/3/2003	1.35 A	0.53 A	0.92 A	698 A	-399 A	112 A
9/4/2003	1.12 A	0.22 A	0.84 A	689 A	-401 A	122 A
9/5/2003	1.99 A	0.24 A	1.35 A	568 A	-644 A	-79 A
9/6/2003	2.29 A	1.53 A	1.91 A	1,380 A	-857 A	175 A
9/7/2003	2.22 A	1.97 A	2.10 A	539 A	-811 A	68 A
9/8/2003	2.61 A	2.30 A	2.46 A	763 A	-908 A	23 A
9/9/2003	2.74 A	2.21 A	2.43 A	705 A	-645 A	-100 A
9/10/2003	3.09 A	2.55 A	2.77 A	950 A	-772 A	-139 A
9/11/2003	3.10 A	2.60 A	2.81 A	1,230 A	-828 A	140 A
9/12/2003	3.09 A	2.10 A	2.67 A	1,590 A	-723 A	635 A
9/13/2003	2.04 A	1.43 A	1.74 A	1,020 A	-631 A	181 A
9/14/2003	2.37 A	1.68 A	1.99 A	1,070 A	-988 A	26 A
9/15/2003	2.18 A	1.62 A	1.94 A	1,040 A	-641 A	123 A
9/16/2003	2.68 A	1.64 A	2.11 A	549 A	-990 A	-334 A
9/17/2003	3.01 A	2.28 A	2.64 A	850 A	-1,150 A	-151 A
9/18/2003	4.97 A	2.91 A	3.85 A	2,110 A	-2,240 A	-454 A
9/19/2003	4.56 A	3.14 A	3.70 A	2,860 A	1,720 A	2,230 A
9/20/2003	3.16 A	2.99 A	3.06 A	2,220 A	1,540 A	1,850 A
9/21/2003	3.17 A	2.99 A	3.07 A	2,360 A	1,630 A	1,980 A
9/22/2003	3.17 A	3.05 A	3.12 A	2,650 A	1,810 A	2,170 A
9/23/2003	3.08 A	2.59 A	2.81 A	2,660 A	1,570 A	2,240 A
9/24/2003	2.93 A	2.60 A	2.76 A	2,090 A	815 A	1,540 A
9/25/2003	2.84 A	2.55 A	2.71 A	1,650 A	838 A	1,230 A
9/26/2003	2.74 A	2.37 A	2.54 A	1,360 A	-89 A	804 A
9/27/2003	2.61 A	2.29 A	2.46 A	1,130 A	-348 A	675 A
9/28/2003	2.62 A	2.19 A	2.36 A	1,280 A	-171 A	716 A
9/29/2003	2.57 A	2.21 A	2.39 A	1,610 A	346 A	1,080 A
9/30/2003	2.73 A	2.52 A	2.64 A	1,500 A	802 A	1,130 A
10/1/2003	2.72 A	2.46 A	2.56 A	1,550 A	605 A	1,140 A
10/2/2003	2.50 A	2.05 A	2.26 A	1,310 A	105 A	925 A
10/3/2003	2.89 A	2.33 A	2.58 A	1,270 A	-752 A	481 A
10/4/2003	2.37 A	1.46 A	1.88 A	1,260 A	208 A	722 A
10/5/2003	2.20 A	1.40 A	1.72 A	1,190 A	-539 A	279 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
10/6/2003	2.16 A	1.31 A	1.68 A	921 A	-529 A	333 A
10/7/2003	2.15 A	1.30 A	1.69 A	1,010 A	-470 A	184 A
10/8/2003	2.24 A	1.37 A	1.82 A	1,230 A	-795 A	146 A
10/9/2003	2.47 A	1.63 A	2.08 A	955 A	-826 A	6.7 A
10/10/2003	2.51 A	2.05 A	2.23 A	1,030 A	-633 A	262 A
10/11/2003	2.45 A	2.16 A	2.28 A	985 A	-232 A	393 A
10/12/2003	2.14 A	1.83 A	1.99 A	809 A	-106 A	476 A
10/13/2003	2.62 A	1.70 A	2.06 A	1,020 A	-958 A	78 A
10/14/2003	2.43 A	2.06 A	2.23 A	1,100 A	-731 A	406 A
10/15/2003	2.15 A	0.31 A	1.08 A	1,410 A	-515 A	469 A
10/16/2003	1.95 A	1.37 A	1.67 A	702 A	-185 A	262 A
10/17/2003	1.44 A	0.96 A	1.24 A	634 A	69 A	295 A
10/18/2003	2.13 A	0.88 A	1.54 A	847 A	-563 A	128 A
10/19/2003	2.08 A	1.09 A	1.51 A	990 A	-563 A	250 A
10/20/2003	1.67 A	1.11 A	1.41 A	471 A	-180 A	206 A
10/21/2003	1.51 A	0.09 A	0.90 A	579 A	-44 A	256 A
10/22/2003	1.29 A	0.11 A	0.93 A	466 A	-436 A	49 A
10/23/2003	1.81 A	1.22 A	1.52 A	723 A	-494 A	78 A
10/24/2003	2.39 A	1.60 A	2.00 A	1,030 A	-878 A	-3.5 A
10/25/2003	2.43 A	1.24 A	1.88 A	944 A	-915 A	286 A
10/26/2003	1.90 A	1.20 A	1.47 A	635 A	-452 A	119 A
10/27/2003	1.70 A	1.13 A	1.43 A	520 A	-201 A	144 A
10/28/2003	2.27 A	1.11 A	1.74 A	1,040 A	-745 A	92 A
10/29/2003	2.40 A	1.14 A	1.87 A	1,740 A	89 A	1,030 A
10/30/2003	2.75 A	2.10 A	2.40 A	2,070 A	1,210 A	1,560 A
10/31/2003	3.04 A	2.78 A	2.92 A	2,890 A	1,990 A	2,430 A
11/1/2003	3.09 A	3.02 A	3.05 A	3,090 A	2,270 A	2,720 A
11/2/2003	3.09 A	2.86 A	2.96 A	3,040 A	2,030 A	2,480 A
11/3/2003	2.89 A	2.43 A	2.66 A	2,310 A	1,420 A	1,820 A
11/4/2003	2.45 A	2.03 A	2.25 A	1,650 A	912 A	1,230 A
11/5/2003	2.11 A	1.80 A	1.96 A	1,130 A	338 A	801 A
11/6/2003	1.95 A	1.63 A	1.81 A	905 A	334 A	618 A
11/7/2003	2.48 A	1.54 A	2.01 A	823 A	-793 A	337 A
11/8/2003	3.04 A	2.32 A	2.70 A	948 A	-537 A	380 A
11/9/2003	3.57 A	2.96 A	3.23 A	1,540 A	-956 A	563 A
11/10/2003	3.18 A	2.39 A	2.77 A	1,520 A	629 A	1,100 A
11/11/2003	2.40 A	1.56 A	1.86 A	1,350 A	439 A	888 A
11/12/2003	1.31 A	0.56 A	1.05 A	755 A	83 A	467 A
11/13/2003	0.89 A	-0.91 A	-0.07 A	664 A	-343 A	396 A
11/14/2003	1.24 A	-0.14 A	0.47 A	612 A	-242 A	291 A
11/15/2003	1.10 A	0.28 A	0.69 A	626 A	-118 A	245 A
11/16/2003	1.02 A	0.53 A	0.72 A	485 A	-33 A	245 A
11/17/2003	0.84 A	0.46 A	0.63 A	439 A	-6.0 A	191 A
11/18/2003	1.40 A	0.75 A	1.02 A	616 A	-91 A	195 A
11/19/2003	1.78 A	0.27 A	1.14 A	1,140 A	-480 A	245 A
11/20/2003	1.59 A	0.16 A	1.12 A	805 A	-340 A	417 A
11/21/2003	1.76 A	1.11 A	1.44 A	926 A	193 A	608 A
11/22/2003	1.87 A	1.06 A	1.43 A	911 A	86 A	598 A
11/23/2003	1.95 A	1.31 A	1.61 A	906 A	25 A	511 A
11/24/2003	P	P	1.65 A	866 A	-136 A	423 A
11/25/2003	P	P	2.04 A	850 A	-1,080 A	103 A
11/26/2003	P	P	2.07 A	922 A	9.3 A	503 A
11/27/2003	P	P	1.98 A	931 A	-420 A	237 A
11/28/2003	P	P	1.57 A	857 A	-396 A	422 A
11/29/2003	P	P	0.12 A	685 A	-327 A	179 A
11/30/2003	P	P	0.94 A	609 A	-451 A	221 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
12/1/2003	P	P	0.52 A	442 A	-198 A	208 A
12/2/2003	P	P	0.88 A	749 A	-517 A	124 A
12/3/2003	P	P	1.34 A	646 A	-756 A	96 A
12/4/2003	P	P	1.50 A	550 A	-925 A	14 A
12/5/2003	P	P	1.17 A	1,630 A	-971 A	368 A
12/6/2003	P	P	0.71 A	696 A	-379 A	227 A
12/7/2003	P	P	1.10 A	696 A	-34 A	344 A
12/8/2003	P	P	1.52 A	605 A	-55 A	290 A
12/9/2003	P	P	1.51 A	583 A	-194 A	257 A
12/10/2003	P	P	1.75 A	735 A	-602 A	130 A
12/11/2003	P	P	1.39 A	1,460 A	194 A	839 A
12/12/2003	P	P	2.04 A	1,590 A	676 A	1,060 A
12/13/2003	P	P	2.72 A	1,660 A	-124 A	964 A
12/14/2003	P	P	3.31 A	2,550 A	-384 A	1,710 A
12/15/2003	P	P	2.50 A	2,620 A	1,540 A	2,070 A
12/16/2003	P	P	2.88 A	2,640 A	1,800 A	2,340 A
12/17/2003	P	P	2.91 A	2,820 A	2,080 A	2,490 A
12/18/2003	P	P	2.50 A	2,710 A	1,630 A	2,090 A
12/19/2003	P	P	2.29 A	1,910 A	1,040 A	1,610 A
12/20/2003	P	P	2.10 A	1,570 A	732 A	1,140 A
12/21/2003	P	P	2.07 A	1,220 A	402 A	769 A
12/22/2003	P	P	1.85 A	986 A	318 A	687 A
12/23/2003	P	P	1.86 A	794 A	273 A	498 A
12/24/2003	P	P	1.92 A	781 A	165 A	527 A
12/25/2003	P	P	1.90 A	753 A	181 A	512 A
12/26/2003	P	P	1.93 A	966 A	211 A	639 A
12/27/2003	P	P	1.85 A	966 A	40 A	554 A
12/28/2003	P	P	1.85 A	793 A	211 A	467 A
12/29/2003	P	P	1.63 A	757 A	193 A	429 A
12/30/2003	P	P	1.23 A	584 A	-34 A	361 A
12/31/2003	P	P	1.39 A	578 A	-45 A	355 A
1/1/2004	P	P	1.09 A	552 A	-44 A	325 A
1/2/2004	P	P	0.88 A	537 A	127 A	303 A
1/3/2004	P	P	0.75 A	460 A	-81 A	250 A
1/4/2004	P	P	0.60 A	427 A	23 A	253 A
1/5/2004	P	P	0.23 A	468 A	79 A	278 A
1/6/2004	P	P	0.88 A	891 A	-799 A	231 A
1/7/2004	P	P	0.76 A	638 A	-303 A	241 A
1/8/2004	P	P	0.87 A	402 A	23 A	214 A
1/9/2004	P	P	1.17 A	801 A	-541 A	172 A
1/10/2004	P	P	1.80 A	1,320 A	-902 A	151 A
1/11/2004	P	P	1.30 A	490 A	-112 A	263 A
1/12/2004	P	P	0.33 A	489 A	-563 A	202 A
1/13/2004	P	P	0.61 A	499 A	-385 A	162 A
1/14/2004	P	P	1.26 A	822 A	-629 A	155 A
1/15/2004	P	P	0.95 A	1,040 A	-773 A	73 A
1/16/2004	P	P	1.04 A	1,090 A	-436 A	259 A
1/17/2004	P	P	1.08 A	544 A	-398 A	149 A
1/18/2004	P	P	0.67 A	532 A	-197 A	213 A
1/19/2004	P	P	1.17 A	919 A	-604 A	99 A
1/20/2004	P	P	1.19 A	541 A	-420 A	150 A
1/21/2004	P	P	1.17 A	437 A	-266 A	174 A
1/22/2004	P	P	0.74 A	400 A	-137 A	187 A
1/23/2004	P	P	0.67 A	604 A	-544 A	82 A
1/24/2004	P	P	0.67 A	524 A	-1,040 A	94 A
1/25/2004	P	P	2.08 A	900 A	-1,040 A	-148 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
1/26/2004	P	P	1.34 A	1,520 A	-499 A	465 A
1/27/2004	P	P	1.00 A	625 A	-368 A	228 A
1/28/2004	P	P	0.18 A	622 A	-393 A	182 A
1/29/2004	P	P	0.62 A	525 A	-234 A	212 A
1/30/2004	P	P	0.49 A	559 A	23 A	281 A
1/31/2004	P	P	0.88 A	951 A	-908 A	229 A
2/1/2004	P	P	1.22 A	733 A	-304 A	221 A
2/2/2004	P	P	1.40 A	553 A	-21 A	250 A
2/3/2004	P	P	0.84 A	475 A	-129 A	245 A
2/4/2004	P	P	1.06 A	539 A	-407 A	166 A
2/5/2004	P	P	1.44 A	541 A	-260 A	189 A
2/6/2004	P	P	1.03 A	656 A	-177 A	294 A
2/7/2004	P	P	0.50 A	521 A	-425 A	240 A
2/8/2004	P	P	0.88 A	891 A	-666 A	156 A
2/9/2004	P	P	1.11 A	542 A	-21 A	259 A
2/10/2004	P	P	0.74 A	458 A	23 A	197 A
2/11/2004	P	P	0.72 A	386 A	-136 A	153 A
2/12/2004	P	P	1.27 A	711 A	-521 A	183 A
2/13/2004	P	P	0.96 A	565 A	112 A	336 A
2/14/2004	P	P	0.82 A	648 A	288 A	467 A
2/15/2004	P	P	1.51 A	610 A	-825 A	83 A
2/16/2004	P	P	2.38 A	1,600 A	-685 A	842 A
2/17/2004	P	P	1.90 A	1,400 A	623 A	983 A
2/18/2004	P	P	1.68 A	1,230 A	628 A	948 A
2/19/2004	P	P	1.58 A	1,150 A	682 A	924 A
2/20/2004	P	P	1.45 A	1,130 A	513 A	877 A
2/21/2004	P	P	1.04 A	936 A	207 A	587 A
2/22/2004	P	P	1.78 A	1,140 A	-176 A	411 A
2/23/2004	P	P	1.91 A	1,100 A	-217 A	428 A
2/24/2004	P	P	1.85 A	875 A	-66 A	413 A
2/25/2004	P	P	2.19 A	675 A	-659 A	151 A
2/26/2004	P	P	2.85 A	644 A	-1,640 A	-387 A
2/27/2004	P	P	3.72 A	1,480 A	-1,550 A	602 A
2/28/2004	P	P	3.09 A	2,210 A	1,090 A	1,860 A
2/29/2004	P	P	2.20 A	2,260 A	1,650 A	1,960 A
3/1/2004	P	P	1.52 A	2,010 A	1,140 A	1,500 A
3/2/2004	P	P	0.99 A	1,370 A	734 A	1,040 A
3/3/2004	P	P	1.17 A	1,140 A	-165 A	664 A
3/4/2004	P	P	0.87 A	905 A	360 A	610 A
3/5/2004	P	P	0.81 A	641 A	243 A	467 A
3/6/2004	P	P	0.20 A	633 A	-273 A	333 A
3/7/2004	P	P	1.30 A	815 A	-697 A	362 A
3/8/2004	P	P	0.40 A	865 A	-401 A	271 A
3/9/2004	P	P	1.36 A	682 A	-527 A	161 A
3/10/2004	P	P	2.08 A	1,980 A	-1,200 A	259 A
3/11/2004	P	P	1.19 A	757 A	-225 A	308 A
3/12/2004	P	P	0.94 A	430 A	-43 A	202 A
3/13/2004	P	P	1.44 A	1,040 A	-790 A	121 A
3/14/2004	P	P	1.38 A	481 A	-84 A	247 A
3/15/2004	P	P	0.88 A	481 A	-232 A	172 A
3/16/2004	P	P	0.93 A	607 A	-205 A	234 A
3/17/2004	P	P	1.29 A	843 A	-418 A	257 A
3/18/2004	P	P	1.39 A	769 A	70 A	417 A
3/19/2004	P	P	1.36 A	707 A	-1,090 A	-36 A
3/20/2004	P	P	1.99 A	1,590 A	-1,010 A	692 A
3/21/2004	P	P	0.92 A	661 A	-571 A	195 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
3/22/2004	P	P	1.62 A	940 A	-503 A	216 A
3/23/2004	P	P	1.75 A	665 A	-212 A	303 A
3/24/2004	P	P	1.29 A	562 A	-112 A	228 A
3/25/2004	P	P	1.02 A	422 A	24 A	215 A
3/26/2004	P	P	0.84 A	399 A	23 A	197 A
3/27/2004	P	P	0.51 A	501 A	-80 A	223 A
3/28/2004	P	P	1.28 A	979 A	-931 A	-0.73 A
3/29/2004	P	P	2.00 A	924 A	-649 A	97 A
3/30/2004	P	P	1.52 A	873 A	-414 A	223 A
3/31/2004	P	P	1.60 A	1,250 A	-674 A	165 A
4/1/2004	P	P	0.57 A	742 A	-388 A	170 A
4/2/2004	P	P	0.59 A	699 A	-285 A	203 A
4/3/2004	P	P	1.09 A	529 A	-324 A	131 A
4/4/2004	P	P	0.60 A	518 A	-33 A	267 A
4/5/2004	P	P	0.67 A	625 A	-516 A	61 A
4/6/2004	P	P	1.27 A	879 A	-568 A	138 A
4/7/2004	P	P	0.85 A	497 A	-448 A	123 A
4/8/2004	P	P	0.83 A	636 A	-327 A	110 A
4/9/2004	P	P	1.40 A	1,060 A	-759 A	-36 A
4/10/2004	P	P	1.66 A	895 A	-354 A	220 A
4/11/2004	P	P	1.17 A	742 A	-572 A	186 A
4/12/2004	P	P	1.90 A	1,090 A	-747 A	406 A
4/13/2004	P	P	1.42 A	1,480 A	102 A	597 A
4/14/2004	P	P	0.97 A	1,090 A	-44 A	662 A
4/15/2004	P	P	1.15 A	962 A	-366 A	515 A
4/16/2004	P	P	1.74 A	1,700 A	-701 A	593 A
4/17/2004	P	P	1.26 A	821 A	24 A	533 A
4/18/2004	P	P	0.88 A	714 A	8.8 A	369 A
4/19/2004	P	P	0.65 A	509 A	23 A	322 A
4/20/2004	P	P	0.47 A	591 A	-248 A	197 A
4/21/2004	P	P	0.56 A	538 A	-125 A	247 A
4/22/2004	P	P	0.60 A	527 A	-220 A	205 A
4/23/2004	P	P	0.44 A	574 A	-126 A	202 A
4/24/2004	P	P	0.81 A	1,460 A	-1,030 A	-119 A
4/25/2004	P	P	1.08 A	1,460 A	-386 A	276 A
4/26/2004	P	P	0.36 A	489 A	-484 A	200 A
4/27/2004	P	P	0.53 A	841 A	-481 A	245 A
4/28/2004	P	P	0.78 A	738 A	-91 A	329 A
4/29/2004	P	P	0.84 A	582 A	-43 A	379 A
4/30/2004	P	P	0.70 A	593 A	-6.0 A	294 A
5/1/2004	P	P	0.79 A	628 A	-192 A	205 A
5/2/2004	P	P	0.30 A	599 A	-225 A	251 A
5/3/2004	P	P	0.35 A	1,010 A	65 A	588 A
5/4/2004	P	P	1.40 A	1,750 A	457 A	1,070 A
5/5/2004	P	P	1.57 A	2,240 A	1,320 A	1,750 A
5/6/2004	P	P	1.62 A	2,030 A	608 A	1,440 A
5/7/2004	P	P	1.53 A	1,820 A	792 A	1,230 A
5/8/2004	P	P	1.88 A	1,110 A	-851 A	427 A
5/9/2004	P	P	1.76 A	1,300 A	334 A	714 A
5/10/2004	P	P	1.31 A	640 A	84 A	360 A
5/11/2004	P	P	1.27 A	699 A	-192 A	255 A
5/12/2004	P	P	1.26 A	627 A	-74 A	205 A
5/13/2004	P	P	1.10 A	591 A	-63 A	196 A
5/14/2004	P	P	0.93 A	458 A	-90 A	176 A
5/15/2004	P	P	0.67 A	576 A	-338 A	171 A
5/16/2004	P	P	0.65 A	679 A	-286 A	121 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
5/17/2004	P	P	0.74 A	560 A	-380 A	105 A
5/18/2004	P	P	0.54 A	744 A	-265 A	116 A
5/19/2004	P	P	0.13 A	491 A	-225 A	116 A
5/20/2004	P	P	0.18 A	632 A	-483 A	49 A
5/21/2004	P	P	0.45 A	461 A	-446 A	79 A
5/22/2004	P	P	0.19 A	583 A	-439 A	104 A
5/23/2004	P	P	-0.09 A	633 A	-440 A	113 A
5/24/2004	P	P	-0.16 A	517 A	-675 A	61 A
5/25/2004	P	P	0.02 A	755 A	-374 A	126 A
5/26/2004	P	P	0.35 A	535 A	-426 A	96 A
5/27/2004	P	P	0.68 A	754 A	-748 A	0
5/28/2004	P	P	0.41 A	485 A	-509 A	147 A
5/29/2004	P	P	1.48 A	860 A	-717 A	-248 A
5/30/2004	P	P	1.37 A	1,030 A	-268 A	299 A
5/31/2004	P	P	0.67 A	438 A	-344 A	125 A
6/1/2004	P	P	0.85 A	554 A	-545 A	58 A
6/2/2004	P	P	1.07 A	823 A	-653 A	80 A
6/3/2004	P	P	0.98 A	777 A	-460 A	-11 A
6/4/2004	P	P	1.18 A	902 A	-414 A	189 A
6/5/2004	P	P	0.87 A	756 A	-670 A	32 A
6/6/2004	P	P	1.56 A	874 A	-497 A	136 A
6/7/2004	P	P	1.34 A	1,040 A	-683 A	55 A
6/8/2004	P	P	1.55 A	812 A	-404 A	117 A
6/9/2004	P	P	1.18 A	677 A	-250 A	274 A
6/10/2004	P	P	0.89 A	497 A	-425 A	139 A
6/11/2004	P	P	1.00 A	535 A	-449 A	97 A
6/12/2004	P	P	1.42 A	671 A	-1,080 A	-144 A
6/13/2004	P	P	1.86 A	899 A	-455 A	398 A
6/14/2004	P	P	1.32 A	560 A	-73 A	178 A
6/15/2004	P	P	1.11 A	459 A	-430 A	88 A
6/16/2004	P	P	0.81 A	354 A	-187 A	150 A
6/17/2004	P	P	0.46 A	453 A	-89 A	175 A
6/18/2004	P	P	0.45 A	674 A	-501 A	60 A
6/19/2004	P	P	0.90 A	620 A	-943 A	112 A
6/20/2004	P	P	1.95 A	1,370 A	-943 A	179 A
6/21/2004	P	P	1.75 A	1,270 A	55 A	555 A
6/22/2004	P	P	0.97 A	827 A	-21 A	366 A
6/23/2004	P	P	0.73 A	602 A	-325 A	165 A
6/24/2004	P	P	1.05 A	724 A	-826 A	99 A
6/25/2004	P	P	1.04 A	681 A	-368 A	216 A
6/26/2004	P	P	0.48 A	710 A	-879 A	-24 A
6/27/2004	P	P	1.27 A	1,120 A	-473 A	301 A
6/28/2004	P	P	0.91 A	704 A	-844 A	223 A
6/29/2004	P	P	1.43 A	1,370 A	-863 A	371 A
6/30/2004	P	P	1.43 A	1,480 A	-155 A	854 A
7/1/2004	P	P	1.25 A	825 A	280 A	617 A
7/2/2004	P	P	1.10 A	710 A	126 A	450 A
7/3/2004	P	P	1.19 A	699 A	-239 A	311 A
7/4/2004	P	P	1.27 A	686 A	-513 A	241 A
7/5/2004	P	P	0.93 A	469 A	-90 A	164 A
7/6/2004	P	P	1.25 A	553 A	-310 A	128 A
7/7/2004	P	P	1.11 A	557 A	-179 A	185 A
7/8/2004	P	P	1.18 A	1,030 A	-872 A	78 A
7/9/2004	P	P	1.09 A	551 A	-412 A	76 A
7/10/2004	P	P	1.17 A	633 A	-679 A	65 A
7/11/2004	P	P	1.38 A	908 A	-679 A	49 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
7/12/2004	P	P	1.05 A	795 A	-661 A	148 A
7/13/2004	P	P	0.53 A	621 A	-438 A	99 A
7/14/2004	P	P	0.74 A	745 A	-677 A	79 A
7/15/2004	P	P	0.93 A	696 A	-550 A	39 A
7/16/2004	P	P	1.21 A	561 A	-619 A	67 A
7/17/2004	P	P	1.12 A	787 A	-283 A	115 A
7/18/2004	P	P	1.04 A	708 A	-672 A	46 A
7/19/2004	P	P	1.27 A	714 A	-657 A	27 A
7/20/2004	P	P	1.34 A	713 A	-590 A	100 A
7/21/2004	P	P	1.40 A	448 A	-868 A	6.3 A
7/22/2004	P	P	1.26 A	715 A	-298 A	146 A
7/23/2004	P	P	1.05 A	679 A	-421 A	136 A
7/24/2004	P	P	0.88 A	670 A	-623 A	137 A
7/25/2004	P	P	1.23 A	485 A	-534 A	38 A
7/26/2004	P	P	1.34 A	717 A	-379 A	185 A
7/27/2004	P	P	1.07 A	473 A	-271 A	131 A
7/28/2004	P	P	0.88 A	745 A	-612 A	46 A
7/29/2004	P	P	1.23 A	864 A	-728 A	55 A
7/30/2004	P	P	1.43 A	773 A	-538 A	55 A
7/31/2004	P	P	1.53 A	626 A	-348 A	115 A
8/1/2004	P	P	1.43 A	489 A	-293 A	75 A
8/2/2004	P	P	1.52 A	843 A	-631 A	95 A
8/3/2004	P	P	2.21 A	1,710 A	-1,160 A	-253 A
8/4/2004	P	P	1.94 A	1,960 A	-595 A	501 A
8/5/2004	P	P	1.39 A	1,050 A	-822 A	132 A
8/6/2004	P	P	2.10 A	1,450 A	-1,030 A	-103 A
8/7/2004	P	P	2.04 A	932 A	-538 A	222 A
8/8/2004	P	P	1.78 A	863 A	-273 A	210 A
8/9/2004	P	P	1.53 A	496 A	-182 A	119 A
8/10/2004	P	P	1.40 A	781 A	-397 A	100 A
8/11/2004	P	P	1.17 A	611 A	-276 A	100 A
8/12/2004	P	P	1.02 A	608 A	-446 A	73 A
8/13/2004	P	P	1.04 A	1,500 A	-722 A	220 A
8/14/2004	P	P	1.38 A	1,800 A	-1,220 A	493 A
8/15/2004	P	P	1.65 A	1,240 A	-85 A	747 A
8/16/2004	P	P	1.78 A	1,600 A	673 A	1,130 A
8/17/2004	P	P	2.34 A	1,840 A	42 A	1,250 A
8/18/2004	P	P	2.27 A	2,040 A	1,280 A	1,630 A
8/19/2004	P	P	1.96 A	1,800 A	913 A	1,360 A
8/20/2004	P	P	1.68 A	1,330 A	625 A	922 A
8/21/2004	P	P	1.25 A	842 A	249 A	597 A
8/22/2004	P	P	1.59 A	779 A	-114 A	232 A
8/23/2004	P	P	1.98 A	832 A	-238 A	228 A
8/24/2004	P	P	2.12 A	702 A	-564 A	174 A
8/25/2004	P	P	P	668 A	-548 A	65 A e
8/26/2004	P	P	2.21 A	939 A	-584 A	333 A
8/27/2004	P	P	2.16 A	691 A	-832 A	4.3 A
8/28/2004	P	P	1.99 A	836 A	-255 A	336 A
8/29/2004	P	P	1.86 A	570 A	-451 A	25 A
8/30/2004	P	P	1.23 A	679 A	-229 A	274 A
8/31/2004	P	P	1.17 A	639 A	-615 A	5.2 A
9/1/2004	P	P	1.73 A	811 A	-908 A	-14 A
9/2/2004	P	P	2.36 A	843 A	-1,110 A	-74 A
9/3/2004	P	P	2.07 A	756 A	-356 A	359 A
9/4/2004	P	P	1.76 A	757 A	-806 A	36 A
9/5/2004	P	P	2.08 A	922 A	-881 A	46 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
9/6/2004	P	P	2.09 A	1,150 A	-905 A	250 A
9/7/2004	P	P	1.98 A	889 A	-699 A	114 A
9/8/2004	P	P	1.99 A	831 A	-309 A	379 A
9/9/2004	P	P	1.55 A	1,080 A	-216 A	507 A
9/10/2004	P	P	2.05 A	644 A	-595 A	198 A
9/11/2004	P	P	2.34 A	799 A	-345 A	324 A
9/12/2004	P	P	2.47 A	884 A	-430 A	350 A
9/13/2004	P	P	2.41 A	931 A	-591 A	286 A
9/14/2004	P	P	2.41 A	680 A	-545 A	121 A
9/15/2004	P	P	2.04 A	1,030 A	-55 A	547 A
9/16/2004	P	P	1.87 A	647 A	-550 A	53 A
9/17/2004	P	P	1.90 A	860 A	-196 A	234 A
9/18/2004	P	P	0.76 A	796 A	-195 A	225 A
9/19/2004	P	P	2.32 A	434 A	-1,150 A	-534 A
9/20/2004	P	P	3.26 A	1,090 A	-1,020 A	172 A
9/21/2004	P	P	2.73 A	1,100 A	74 A	625 A
9/22/2004	P	P	1.98 A	993 A	-387 A	419 A
9/23/2004	P	P	1.89 A	809 A	-1,070 A	65 A
9/24/2004	P	P	2.48 A	520 A	-1,070 A	-192 A
9/25/2004	P	P	2.36 A	759 A	-189 A	392 A
9/26/2004	P	P	2.36 A	861 A	-746 A	-11 A
9/27/2004	P	P	2.33 A	831 A	-521 A	285 A
9/28/2004	P	P	1.52 A	1,000 A	-197 A	392 A
9/29/2004	P	P	1.51 A	592 A	-583 A	18 A
9/30/2004	P	P	2.26 A	963 A	-1,030 A	-140 A
10/1/2004	2.70 A	2.10 A	2.42 A	1,200 A	-649 A	6.1 A
10/2/2004	2.57 A	1.82 A	2.15 A	923 A	-705 A	435 A
10/3/2004	2.45 A	1.37 A	1.94 A	960 A	-673 A	-88 A
10/4/2004	2.46 A	1.86 A	2.05 A	846 A	-634 A	256 A
10/5/2004	2.51 A	1.55 A	1.97 A	777 A	-819 A	-133 A
10/6/2004	2.54 A	2.08 A	2.28 A	838 A	-526 A	221 A
10/7/2004	2.33 A	1.86 A	2.11 A	864 A	-594 A	149 A
10/8/2004	2.17 A	1.74 A	2.01 A	638 A	-591 A	92 A
10/9/2004	2.10 A	1.37 A	1.70 A	675 A	-194 A	195 A
10/10/2004	1.90 A	1.15 A	1.56 A	602 A	-473 A	24 A
10/11/2004	2.20 A	1.47 A	1.86 A	1,100 A	-824 A	26 A
10/12/2004	2.09 A	1.20 A	1.68 A	887 A	-398 A	175 A
10/13/2004	2.18 A	1.05 A	1.76 A	956 A	-633 A	73 A
10/14/2004	2.09 A	1.06 A	1.49 A	874 A	-631 A	35 A
10/15/2004	1.73 A	0.82 A	1.49 A	737 A	-95 A	243 A
10/16/2004	1.82 A	0.60 A	1.23 A	761 A	-379 A	113 A
10/17/2004	2.06 A	0.53 A	1.37 A	946 A	-682 A	82 A
10/18/2004	1.85 A	1.18 A	1.58 A	453 A	-305 A	72 A
10/19/2004	1.74 A	0.78 A	1.29 A	512 A	-375 A	148 A
10/20/2004	1.92 A	1.00 A	1.42 A	519 A	-504 A	33 A
10/21/2004	2.43 A	1.60 A	2.03 A	361 A	-716 A	-146 A
10/22/2004	2.87 A	2.19 A	2.43 A	1,030 A	-1,030 A	-182 A
10/23/2004	2.97 A	2.44 A	2.62 A	1,330 A	-989 A	170 A
10/24/2004	2.81 A	2.37 A	2.54 A	1,020 A	-773 A	232 A
10/25/2004	2.66 A	2.47 A	2.55 A	557 A	-507 A	29 A
10/26/2004	2.76 A	2.37 A	2.61 A	1,200 A	-924 A	13 A
10/27/2004	2.70 A	2.26 A	2.49 A	1,060 A	-727 A	184 A
10/28/2004	2.76 A	2.35 A	2.56 A	739 A	-807 A	-113 A
10/29/2004	2.69 A	1.85 A	2.32 A	1,020 A	-282 A	424 A
10/30/2004	2.10 A	1.39 A	1.86 A	995 A	-475 A	127 A
10/31/2004	2.00 A	1.21 A	1.56 A	836 A	-429 A	64 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
11/1/2004	2.24 A	1.35 A	1.81 A	781 A	-753 A	-53 A
11/2/2004	1.93 A	1.21 A	1.54 A	962 A	-252 A	180 A
11/3/2004	2.58 A	0.89 A	1.43 A	345 A	-1,230 A	-246 A
11/4/2004	2.62 A	0.94 A	1.98 A	1,110 A	-1,000 A	336 A
11/5/2004	1.75 A	0.27 A	1.25 A	551 A	-492 A	0.4
11/6/2004	1.62 A	0.80 A	1.23 A	495 A	-249 A	105 A
11/7/2004	1.11 A	0.67 A	0.89 A	371 A	-300 A	84 A
11/8/2004	2.38 A	0.60 A	1.40 A	898 A	-1,020 A	-158 A
11/9/2004	2.04 A	1.39 A	1.65 A	757 A	-655 A	103 A
11/10/2004	2.13 A	1.38 A	1.74 A	1,060 A	-571 A	141 A
11/11/2004	1.60 A	0.90 A	1.25 A	472 A	-348 A	98 A
11/12/2004	1.53 A	0.91 A	1.23 A	445 A	-322 A	82 A
11/13/2004	2.52 A	0.53 A	1.63 A	496 A	-838 A	-151 A
11/14/2004	2.46 A	1.88 A	2.14 A	1,300 A	-438 A	436 A
11/15/2004	2.07 A	1.45 A	1.69 A	1,070 A	-87 A	488 A
11/16/2004	1.63 A	1.28 A	1.44 A	660 A	-27 A	249 A
11/17/2004	1.80 A	1.13 A	1.47 A	498 A	-221 A	153 A
11/18/2004	1.76 A	1.19 A	1.45 A	574 A	-303 A	163 A
11/19/2004	1.70 A	1.13 A	1.41 A	480 A	-311 A	132 A
11/20/2004	1.76 A	1.21 A	1.47 A	400 A	-389 A	100 A
11/21/2004	2.05 A	1.00 A	1.55 A	785 A	-680 A	20 A
11/22/2004	2.06 A	1.34 A	1.66 A	866 A	-512 A	180 A
11/23/2004	2.15 A	1.37 A	1.75 A	675 A	-611 A	93 A
11/24/2004	2.06 A	1.11 A	1.71 A	813 A	-509 A	172 A
11/25/2004	1.86 A	0.19 A	0.88 A	877 A	-565 A	214 A
11/26/2004	2.13 A	1.12 A	1.66 A	783 A	-572 A	48 A
11/27/2004	2.19 A	1.63 A	1.90 A	1,120 A	-301 A	175 A
11/28/2004	1.79 A	1.00 A	1.42 A	827 A	-155 A	288 A
11/29/2004	2.33 A	1.23 A	1.95 A	1,010 A	-816 A	216 A
11/30/2004	1.97 A	1.48 A	1.74 A	787 A	-18 A	460 A
12/1/2004	1.82 A	-0.19 A	1.15 A	876 A	-681 A	257 A
12/2/2004	1.84 A	1.04 A	1.43 A	876 A	-285 A	278 A
12/3/2004	1.43 A	0.48 A	1.03 A	531 A	-339 A	216 A
12/4/2004	1.38 A	0.96 A	1.14 A	406 A	-17 A	179 A
12/5/2004	1.23 A	0.79 A	0.98 A	343 A	-84 A	156 A
12/6/2004	1.19 A	0.86 A	1.01 A	343 A	-36 A	145 A
12/7/2004	1.09 A	-0.05 A	0.82 A	481 A	-45 A	194 A
12/8/2004	1.31 A	-0.10 A	0.81 A	392 A	-489 A	42 A
12/9/2004	1.40 A	0.97 A	1.17 A	391 A	-55 A	127 A
12/10/2004	1.21 A	0.64 A	0.90 A	493 A	-199 A	187 A
12/11/2004	0.91 A	-0.15 A	0.42 A	558 A	-256 A	218 A
12/12/2004	1.52 A	0.19 A	0.77 A	556 A	-488 A	221 A
12/13/2004	0.96 A	-0.03 A	0.41 A	434 A	-210 A	184 A
12/14/2004	1.47 A	0.51 A	0.95 A	620 A	-586 A	142 A
12/15/2004	1.84 A	0.70 A	1.31 A	971 A	-592 A	94 A
12/16/2004	1.46 A	0.96 A	1.25 A	392 A	-211 A	165 A
12/17/2004	1.33 A	0.73 A	0.97 A	388 A	-293 A	115 A
12/18/2004	1.76 A	0.66 A	1.18 A	620 A	-344 A	101 A
12/19/2004	1.37 A	0.49 A	1.00 A	391 A	-230 A	131 A
12/20/2004	1.48 A	-0.50 A	0.40 A	506 A	-633 A	31 A
12/21/2004	1.30 A	0.16 A	0.85 A	490 A	-392 A	101 A
12/22/2004	1.46 A	0.73 A	1.09 A	372 A	-219 A	96 A
12/23/2004	1.39 A	0.46 A	0.95 A	575 A	-373 A	145 A
12/24/2004	2.09 A	0.50 A	1.45 A	785 A	-864 A	38 A
12/25/2004	2.16 A	1.17 A	1.72 A	414 A	-610 A	49 A
12/26/2004	2.38 A	1.02 A	1.85 A	1,250 A	-515 A	329 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
12/27/2004	1.94 A	1.02 A	1.55 A	706 A	-135 A	255 A
12/28/2004	2.22 A	1.12 A	1.77 A	1,260 A	-311 A	429 A
12/29/2004	1.27 A	0.61 A	1.01 A	669 A	-7.3 A	381 A
12/30/2004	1.36 A	0.69 A	1.04 A	550 A	-65 A	309 A
12/31/2004	1.19 A	0.82 A	1.02 A	450 A	69 A	281 A
1/1/2005	1.20 A	0.67 A	0.89 A	461 A	-7.4 A	235 A
1/2/2005	1.24 A	0.78 A	1.04 A	480 A	7.2 A	223 A
1/3/2005	1.12 A	0.76 A	0.92 A	493 A	-26 A	221 A
1/4/2005	0.96 A	0.56 A	0.70 A	415 A	67 A	212 A
1/5/2005	0.83 A	0.51 A	0.67 A	442 A	37 A	193 A
1/6/2005	0.89 A	0.33 A	0.63 A	459 A	-26 A	202 A
1/7/2005	2.19 A	0.40 A	1.24 A	1,010 A	-867 A	-7.1 A
1/8/2005	1.70 A	0.29 A	1.01 A	1,020 A	-396 A	235 A
1/9/2005	2.04 A	1.24 A	1.67 A	986 A	-689 A	32 A
1/10/2005	2.01 A	0.99 A	1.21 A	1,170 A	-198 A	241 A
1/11/2005	1.95 A	0.92 A	1.49 A	865 A	-729 A	155 A
1/12/2005	1.68 A	0.88 A	1.25 A	482 A	-339 A	101 A
1/13/2005	1.72 A	1.00 A	1.37 A	563 A	-532 A	73 A
1/14/2005	2.56 A	0.16 A	1.36 A	929 A	-1,060 A	-13 A
1/15/2005	3.05 A	2.25 A	2.63 A	1,240 A	-872 A	45 A
1/16/2005	2.83 A	2.16 A	2.58 A	1,420 A	312 A	892 A
1/17/2005	2.16 A	1.23 A	1.63 A	1,520 A	134 A	692 A
1/18/2005	2.25 A	1.20 A	1.76 A	1,050 A	-594 A	319 A
1/19/2005	2.16 A	0.95 A	1.59 A	1,070 A	-320 A	385 A
1/20/2005	1.62 A	0.45 A	1.16 A	585 A	-522 A	245 A
1/21/2005	2.25 A	1.22 A	1.76 A	497 A	-504 A	65 A
1/22/2005	2.14 A	0.59 A	1.69 A	913 A	-18 A	429 A
1/23/2005	1.33 A	-0.51 A	0.49 A	505 A	-414 A	168 A
1/24/2005	1.86 A	0.94 A	1.55 A	609 A	-530 A	158 A
1/25/2005	2.24 A	0.73 A	1.54 A	982 A	-779 A	133 A
1/26/2005	1.77 A	1.36 A	1.58 A	420 A	-57 A	174 A
1/27/2005	2.49 A	1.40 A	2.13 A	602 A	-644 A	-86 A
1/28/2005	2.59 A	2.12 A	2.42 A	926 A	-1,040 A	84 A
1/29/2005	2.35 A	1.72 A	2.05 A	1,010 A	-237 A	373 A
1/30/2005	2.02 A	1.03 A	1.50 A	1,070 A	-327 A	249 A
1/31/2005	2.30 A	1.43 A	1.89 A	644 A	-551 A	84 A
2/1/2005	2.29 A	1.94 A	2.12 A	750 A	-180 A	344 A
2/2/2005	2.38 A	2.07 A	2.25 A	870 A	-631 A	236 A
2/3/2005	2.46 A	1.62 A	2.05 A	1,360 A	-745 A	314 A
2/4/2005	2.35 A	1.88 A	2.12 A	1,190 A	-739 A	180 A
2/5/2005	2.73 A	2.22 A	2.48 A	1,100 A	-904 A	113 A
2/6/2005	2.38 A	2.12 A	2.24 A	1,010 A	-394 A	399 A
2/7/2005	2.28 A	1.88 A	2.11 A	730 A	-794 A	258 A
2/8/2005	2.35 A	1.49 A	1.94 A	1,270 A	-846 A	265 A
2/9/2005	2.02 A	1.32 A	1.73 A	797 A	-308 A	204 A
2/10/2005	1.87 A	0.77 A	1.34 A	750 A	-404 A	208 A
2/11/2005	1.83 A	0.52 A	1.28 A	651 A	-549 A	84 A
2/12/2005	1.85 A	0.94 A	1.40 A	679 A	-400 A	139 A
2/13/2005	2.15 A	1.21 A	1.67 A	847 A	-648 A	60 A
2/14/2005	1.92 A	1.03 A	1.54 A	983 A	-362 A	274 A
2/15/2005	1.58 A	0.93 A	1.29 A	456 A	-295 A	128 A
2/16/2005	1.38 A	0.77 A	1.10 A	437 A	-27 A	166 A
2/17/2005	2.16 A	0.82 A	1.42 A	1,210 A	-1,020 A	101 A
2/18/2005	1.52 A	0.26 A	0.93 A	644 A	-741 A	121 A
2/19/2005	1.66 A	0.82 A	1.16 A	586 A	-545 A	143 A
2/20/2005	1.97 A	0.60 A	1.25 A	1,100 A	-684 A	139 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
2/21/2005	1.14 A	0.26 A	0.62 A	525 A	-310 A	160 A
2/22/2005	2.02 A	0.38 A	1.20 A	913 A	-846 A	33 A
2/23/2005	2.38 A	0.81 A	1.46 A	486 A	-877 A	-139 A
2/24/2005	2.51 A	0.91 A	1.86 A	1,710 A	-835 A	444 A
2/25/2005	2.05 A	0.95 A	1.65 A	739 A	-468 A	192 A
2/26/2005	2.01 A	1.59 A	1.79 A	881 A	-337 A	247 A
2/27/2005	2.82 A	1.34 A	1.92 A	576 A	-1,020 A	-251 A
2/28/2005	3.38 A	2.17 A	3.01 A	2,190 A	-1,240 A	330 A
3/1/2005	2.17 A	0.28 A	1.24 A	2,020 A	219 A	905 A
3/2/2005	0.92 A	-0.05 A	0.50 A	754 A	155 A	505 A
3/3/2005	1.33 A	0.63 A	1.04 A	654 A	162 A	382 A
3/4/2005	1.37 A	0.61 A	1.09 A	607 A	114 A	386 A
3/5/2005	1.72 A	0.27 A	0.75 A	493 A	-359 A	193 A
3/6/2005	1.72 A	0.37 A	0.90 A	881 A	-185 A	320 A
3/7/2005	1.09 A	-0.07 A	0.64 A	499 A	-252 A	246 A
3/8/2005	0.99 A	-1.47 A	-0.16 A	620 A	-849 A	118 A
3/9/2005	1.41 A	-0.02 A	0.80 A	686 A	-421 A	208 A
3/10/2005	1.56 A	0.49 A	1.04 A	640 A	-686 A	172 A
3/11/2005	1.07 A	-0.67 A	0.63 A	577 A	-289 A	251 A
3/12/2005	1.27 A	-0.71 A	0.23 A	466 A	-572 A	75 A
3/13/2005	2.29 A	0.63 A	1.34 A	597 A	-1,060 A	-52 A
3/14/2005	2.32 A	1.24 A	1.85 A	1,220 A	-984 A	302 A
3/15/2005	1.84 A	1.06 A	1.40 A	730 A	-501 A	161 A
3/16/2005	2.76 A	1.02 A	1.83 A	376 A	-910 A	-297 A
3/17/2005	3.40 A	2.66 A	3.04 A	1,300 A	-1,440 A	238 A
3/18/2005	2.66 A	2.09 A	2.39 A	1,360 A	556 A	950 A
3/19/2005	2.35 A	1.80 A	2.09 A	1,670 A	403 A	1,060 A
3/20/2005	1.80 A	1.43 A	1.61 A	1,810 A	770 A	1,100 A
3/21/2005	2.15 A	1.31 A	1.69 A	1,260 A	-169 A	742 A
3/22/2005	2.39 A	1.71 A	2.12 A	1,270 A	-273 A	592 A
3/23/2005	2.10 A	0.64 A	1.53 A	1,180 A	223 A	737 A
3/24/2005	2.42 A	1.26 A	1.87 A	767 A	-272 A	335 A
3/25/2005	2.78 A	2.34 A	2.53 A	1,380 A	-102 A	703 A
3/26/2005	2.78 A	2.54 A	2.64 A	1,380 A	8.0 A	743 A
3/27/2005	2.77 A	2.25 A	2.54 A	1,190 A	500 A	840 A
3/28/2005	2.59 A	1.37 A	2.20 A	1,470 A	-183 A	788 A
3/29/2005	2.31 A	0.97 A	1.54 A	1,330 A	-18 A	530 A
3/30/2005	2.63 A	2.20 A	2.35 A	1,040 A	-101 A	573 A
3/31/2005	2.57 A	2.08 A	2.37 A	1,130 A	557 A	842 A
4/1/2005	2.61 A	1.96 A	2.14 A	929 A	-906 A	423 A
4/2/2005	2.65 A	0.62 A	1.91 A	1,300 A	-848 A	857 A
4/3/2005	1.74 A	-0.18 A	0.22 A	1,060 A	358 A	831 A
4/4/2005	2.04 A	1.55 A	1.76 A	1,380 A	344 A	977 A
4/5/2005	2.63 A	1.96 A	2.29 A	1,380 A	-101 A	854 A
4/6/2005	2.38 A	1.66 A	2.04 A	1,510 A	543 A	1,080 A
4/7/2005	1.90 A	1.53 A	1.73 A	864 A	232 A	588 A
4/8/2005	2.07 A	1.41 A	1.85 A	1,080 A	-67 A	541 A
4/9/2005	3.31 A	1.85 A	2.55 A	1,080 A	-1,190 A	-112 A
4/10/2005	3.34 A	2.65 A	2.86 A	1,730 A	-1,050 A	937 A
4/11/2005	2.69 A	2.08 A	2.29 A	1,260 A	-1,170 A	745 A
4/12/2005	3.09 A	2.28 A	2.72 A	1,630 A	-1,250 A	-49 A
4/13/2005	3.56 A	2.55 A	2.91 A	1,580 A	-1,540 A	209 A
4/14/2005	3.93 A	3.55 A	3.68 A	1,410 A	-925 A	516 A
4/15/2005	4.51 A	3.53 A	4.06 A	2,170 A	-877 A	1,040 A
4/16/2005	4.36 A	3.78 A	3.99 A	2,450 A	1,370 A	1,820 A
4/17/2005	3.79 A	2.81 A	3.26 A	2,240 A	1,210 A	1,690 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
4/18/2005	2.81 A	1.67 A	2.20 A	1,870 A	882 A	1,390 A
4/19/2005	1.72 A	1.30 A	1.58 A	1,020 A	435 A	665 A
4/20/2005	1.51 A	0.99 A	1.31 A	690 A	288 A	451 A
4/21/2005	1.79 A	0.90 A	1.21 A	821 A	-254 A	328 A
4/22/2005	1.77 A	0.95 A	1.38 A	665 A	-67 A	322 A
4/23/2005	1.68 A	0.38 A	0.96 A	759 A	-250 A	292 A
4/24/2005	1.43 A	0.10 A	0.72 A	704 A	-658 A	207 A
4/25/2005	0.78 A	0.14 A	0.59 A	412 A	-212 A	175 A
4/26/2005	1.58 A	0.47 A	1.16 A	504 A	-380 A	101 A
4/27/2005	1.80 A	0.58 A	1.01 A	885 A	-562 A	167 A
4/28/2005	1.37 A	0.67 A	1.06 A	602 A	-439 A	133 A
4/29/2005	1.43 A	0.46 A	1.03 A	611 A	-381 A	85 A
4/30/2005	1.44 A	-0.15 A	0.86 A	585 A	-304 A	191 A
5/1/2005	2.04 A	-0.17 A	1.00 A	1,170 A	-859 A	26 A
5/2/2005	1.72 A	0.97 A	1.37 A	816 A	-649 A	141 A
5/3/2005	2.29 A	0.96 A	1.69 A	1,200 A	-743 A	-5.5 A
5/4/2005	2.08 A	1.42 A	1.80 A	717 A	-519 A	145 A
5/5/2005	2.97 A	1.82 A	2.48 A	857 A	-1,360 A	-401 A
5/6/2005	4.01 A	2.78 A	3.35 A	1,800 A	-2,150 A	-189 A
5/7/2005	3.68 A	2.33 A	2.74 A	2,390 A	1,180 A	1,700 A
5/8/2005	2.33 A	2.08 A	2.21 A	1,620 A	1,080 A	1,330 A
5/9/2005	2.54 A	2.03 A	2.24 A	1,670 A	324 A	1,140 A
5/10/2005	2.40 A	2.21 A	2.29 A	1,440 A	488 A	986 A
5/11/2005	2.28 A	1.75 A	2.06 A	1,170 A	444 A	787 A
5/12/2005	2.46 A	1.56 A	1.71 A	960 A	-1,160 A	269 A
5/13/2005	2.88 A	2.22 A	2.60 A	1,350 A	-1,290 A	-8.5 A
5/14/2005	2.59 A	1.13 A	1.80 A	1,480 A	243 A	825 A
5/15/2005	1.51 A	0.73 A	1.22 A	732 A	-192 A	287 A
5/16/2005	2.22 A	0.73 A	1.35 A	597 A	-850 A	-11 A
5/17/2005	2.38 A	1.61 A	2.08 A	970 A	-783 A	259 A
5/18/2005	2.10 A	1.58 A	1.86 A	766 A	-257 A	270 A
5/19/2005	2.01 A	1.17 A	1.58 A	821 A	-439 A	206 A
5/20/2005	1.46 A	0.37 A	0.97 A	792 A	-347 A	226 A
5/21/2005	2.36 A	0.71 A	1.94 A	902 A	-715 A	0.26 A
5/22/2005	2.37 A	0.65 A	1.43 A	1,400 A	-345 A	494 A
5/23/2005	1.58 A	0.58 A	1.13 A	662 A	-322 A	91 A
5/24/2005	2.35 A	1.42 A	1.89 A	1,240 A	-1,180 A	18 A
5/25/2005	2.75 A	1.85 A	2.35 A	1,440 A	-1,220 A	97 A
5/26/2005	2.20 A	0.96 A	1.80 A	1,080 A	-732 A	89 A
5/27/2005	2.26 A	1.21 A	1.78 A	1,210 A	-596 A	251 A
5/28/2005	1.78 A	0.98 A	1.45 A	668 A	-475 A	106 A
5/29/2005	2.09 A	1.33 A	1.73 A	1,120 A	-750 A	-8.0 A
5/30/2005	2.00 A	1.24 A	1.54 A	612 A	-578 A	60 A
5/31/2005	2.58 A	1.25 A	2.07 A	1,030 A	-1,080 A	-193 A
6/1/2005	2.66 A	2.10 A	2.43 A	1,310 A	-897 A	116 A
6/2/2005	3.21 A	2.36 A	2.76 A	1,570 A	-1,300 A	43 A
6/3/2005	2.38 A	1.20 A	1.83 A	1,360 A	-429 A	500 A
6/4/2005	2.07 A	1.58 A	1.83 A	888 A	-555 A	97 A
6/5/2005	2.14 A	1.30 A	1.79 A	1,150 A	-762 A	94 A
6/6/2005	1.85 A	1.00 A	1.60 A	728 A	-533 A	152 A
6/7/2005	1.73 A	0.84 A	1.37 A	783 A	-331 A	104 A
6/8/2005	1.85 A	0.86 A	1.45 A	908 A	-422 A	105 A
6/9/2005	1.61 A	1.00 A	1.35 A	746 A	132 A	382 A
6/10/2005	1.61 A	1.04 A	1.42 A	650 A	-56 A	322 A
6/11/2005	1.82 A	1.07 A	1.38 A	995 A	-383 A	198 A
6/12/2005	1.59 A	0.85 A	1.25 A	550 A	-163 A	197 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
6/13/2005	1.14 A	0.52 A	0.93 A	384 A	-131 A	162 A
6/14/2005	1.24 A	0.30 A	0.69 A	453 A	-256 A	101 A
6/15/2005	1.25 A	0.31 A	0.76 A	611 A	-203 A	142 A
6/16/2005	1.38 A	0.42 A	1.11 A	329 A	-452 A	22 A
6/17/2005	2.15 A	1.16 A	1.68 A	1,230 A	-948 A	22 A
6/18/2005	2.13 A	1.26 A	1.78 A	587 A	-698 A	-44 A
6/19/2005	2.70 A	1.92 A	2.24 A	735 A	-993 A	-245 A
6/20/2005	2.72 A	2.24 A	2.45 A	715 A	-697 A	218 A
6/21/2005	2.42 A	1.12 A	1.70 A	1,200 A	-194 A	423 A
6/22/2005	1.13 A	0.51 A	0.89 A	562 A	-367 A	130 A
6/23/2005	2.05 A	0.49 A	1.59 A	458 A	-612 A	-118 A
6/24/2005	2.18 A	1.23 A	1.76 A	1,080 A	-594 A	159 A
6/25/2005	2.07 A	1.19 A	1.75 A	327 A	-522 A	-86 A
6/26/2005	2.15 A	0.57 A	1.63 A	1,190 A	-655 A	114 A
6/27/2005	1.68 A	1.13 A	1.43 A	523 A	-288 A	99 A
6/28/2005	1.59 A	0.91 A	1.17 A	702 A	-295 A	113 A
6/29/2005	1.72 A	0.80 A	1.30 A	1,210 A	-180 A	680 A
6/30/2005	1.71 A	0.82 A	1.26 A	890 A	7.4 A	502 A
7/1/2005	1.72 A	0.88 A	1.33 A	923 A	-300 A	349 A
7/2/2005	1.81 A	0.81 A	1.20 A	706 A	-532 A	176 A
7/3/2005	2.35 A	1.34 A	2.00 A	1,260 A	-883 A	141 A
7/4/2005	2.29 A	1.62 A	1.94 A	1,510 A	-241 A	611 A
7/5/2005	1.78 A	0.77 A	1.49 A	931 A	55 A	456 A
7/6/2005	1.46 A	0.73 A	1.12 A	656 A	-313 A	254 A
7/7/2005	1.96 A	1.03 A	1.43 A	1,010 A	-613 A	208 A
7/8/2005	1.40 A	-0.03 A	0.64 A	601 A	-361 A	155 A
7/9/2005	1.87 A	0.84 A	1.44 A	803 A	-567 A	141 A
7/10/2005	1.77 A	0.74 A	1.30 A	686 A	-458 A	115 A
7/11/2005	1.39 A	0.89 A	1.13 A	425 A	-335 A	92 A
7/12/2005	1.40 A	0.58 A	0.94 A	639 A	-349 A	97 A
7/13/2005	2.30 A	0.26 A	1.01 A	1,760 A	-1,360 A	135 A
7/14/2005	1.92 A	1.06 A	1.46 A	1,400 A	-333 A	352 A
7/15/2005	1.75 A	0.76 A	1.22 A	909 A	-76 A	522 A
7/16/2005	1.68 A	0.94 A	1.18 A	991 A	-76 A	551 A
7/17/2005	1.44 A	0.58 A	0.98 A	886 A	-104 A	375 A
7/18/2005	1.31 A	0.36 A	0.87 A	786 A	-342 A	334 A
7/19/2005	1.14 A	0.38 A	0.78 A	636 A	-270 A	241 A
7/20/2005	1.26 A	0.29 A	0.68 A	617 A	-482 A	169 A
7/21/2005	1.48 A	0.34 A	0.91 A	911 A	-671 A	171 A
7/22/2005	1.26 A	-0.02 A	0.74 A	816 A	-333 A	155 A
7/23/2005	1.99 A	0.13 A	1.50 A	1,210 A	-935 A	32 A
7/24/2005	2.28 A	1.51 A	2.01 A	971 A	-869 A	-9.5 A
7/25/2005	2.27 A	1.17 A	1.59 A	1,230 A	-361 A	444 A
7/26/2005	1.64 A	0.88 A	1.24 A	667 A	-298 A	120 A
7/27/2005	1.67 A	0.97 A	1.32 A	637 A	-341 A	136 A
7/28/2005	2.27 A	0.93 A	1.59 A	530 A	-932 A	-111 A
7/29/2005	2.41 A	1.23 A	1.91 A	1,790 A	-932 A	260 A
7/30/2005	2.03 A	1.11 A	1.57 A	1,060 A	-709 A	159 A
7/31/2005	1.96 A	1.21 A	1.57 A	1,170 A	-696 A	299 A
8/1/2005	2.11 A	1.24 A	1.75 A	1,270 A	-696 A	292 A
8/2/2005	1.98 A	1.61 A	1.78 A	948 A	24 A	567 A
8/3/2005	1.75 A	1.34 A	1.53 A	984 A	386 A	681 A
8/4/2005	1.87 A	1.29 A	1.54 A	1,000 A	-166 A	508 A
8/5/2005	1.59 A	0.92 A	1.33 A	690 A	-154 A	373 A
8/6/2005	1.40 A	0.92 A	1.19 A	542 A	-7.5 A	229 A
8/7/2005	1.67 A	1.03 A	1.36 A	458 A	-231 A	77 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
8/8/2005	1.70 A	1.09 A	1.33 A	685 A	-322 A	152 A
8/9/2005	1.50 A	0.85 A	1.19 A	588 A	-375 A	96 A
8/10/2005	1.52 A	0.71 A	1.29 A	745 A	-389 A	158 A
8/11/2005	1.49 A	0.79 A	1.23 A	661 A	-160 A	192 A
8/12/2005	1.56 A	0.90 A	1.24 A	539 A	-222 A	185 A
8/13/2005	1.65 A	0.98 A	1.22 A	680 A	-643 A	127 A
8/14/2005	1.51 A	0.83 A	1.16 A	717 A	-562 A	99 A
8/15/2005	1.58 A	0.59 A	0.99 A	429 A	-504 A	32 A
8/16/2005	1.54 A	0.67 A	1.18 A	763 A	-677 A	87 A
8/17/2005	2.07 A	0.65 A	1.33 A	788 A	-897 A	-36 A
8/18/2005	2.13 A	1.57 A	1.83 A	836 A	-620 A	204 A
8/19/2005	1.67 A	1.04 A	1.42 A	830 A	-104 A	226 A
8/20/2005	1.94 A	0.90 A	1.36 A	1,040 A	-526 A	61 A
8/21/2005	1.65 A	0.74 A	1.35 A	752 A	-299 A	151 A
8/22/2005	1.87 A	0.70 A	1.43 A	812 A	-491 A	27 A
8/23/2005	1.91 A	1.00 A	1.37 A	589 A	-622 A	13 A
8/24/2005	2.56 A	1.06 A	1.92 A	1,180 A	-707 A	-241 A
8/25/2005	2.57 A	2.08 A	2.33 A	860 A	-695 A	66 A
8/26/2005	2.46 A	1.77 A	2.06 A	1,290 A	-569 A	322 A
8/27/2005	2.13 A	1.34 A	1.77 A	1,170 A	-569 A	193 A
8/28/2005	2.12 A	1.33 A	1.73 A	699 A	-625 A	-6.9 A
8/29/2005	2.07 A	1.46 A	1.81 A	838 A	-384 A	88 A
8/30/2005	1.91 A	1.23 A	1.59 A	656 A	-341 A	138 A
8/31/2005	1.47 A	0.40 A	0.96 A	410 A	-363 A	97 A
9/1/2005	1.84 A	0.84 A	1.50 A	773 A	-548 A	-22 A
9/2/2005	1.75 A	1.31 A	1.55 A	523 A	-342 A	68 A
9/3/2005	2.10 A	0.91 A	1.55 A	498 A	-830 A	-98 A
9/4/2005	2.29 A	1.42 A	1.92 A	985 A	-745 A	-50 A
9/5/2005	2.90 A	1.70 A	2.41 A	1,200 A	-1,050 A	-334 A
9/6/2005	3.17 A	2.79 A	2.97 A	1,220 A	-931 A	-39 A
9/7/2005	2.95 A	2.35 A	2.61 A	1,290 A	-925 A	319 A
9/8/2005	2.74 A	2.03 A	2.31 A	1,300 A	-773 A	238 A
9/9/2005	2.51 A	1.63 A	2.08 A	1,070 A	-932 A	-31 A
9/10/2005	3.12 A	2.12 A	2.63 A	926 A	-1,500 A	-298 A
9/11/2005	3.63 A	3.02 A	3.36 A	1,230 A	-1,050 A	-302 A
9/12/2005	3.37 A	2.64 A	2.87 A	1,360 A	-607 A	642 A
9/13/2005	2.64 A	1.94 A	2.26 A	1,280 A	-546 A	483 A
9/14/2005	4.30 A	1.95 A	2.95 A	120 A	-2,120 A	-1,110 A
9/15/2005	5.59 A	4.29 A	5.00 A	2,160 A	-2,620 A	-187 A
9/16/2005	4.29 A	2.68 A	3.27 A	2,390 A	884 A	1,810 A
9/17/2005	2.68 A	1.96 A	2.30 A	1,190 A	-363 A	705 A
9/18/2005	2.11 A	1.38 A	1.92 A	1,110 A	-490 A	276 A
9/19/2005	2.54 A	1.34 A	2.13 A	835 A	-782 A	-191 A
9/20/2005	2.43 A	1.04 A	1.86 A	1,150 A	-497 A	481 A
9/21/2005	2.22 A	0.95 A	1.76 A	727 A	-646 A	-77 A
9/22/2005	2.16 A	1.71 A	1.91 A	958 A	-602 A	72 A
9/23/2005	2.07 A	1.19 A	1.52 A	1,130 A	-381 A	213 A
9/24/2005	2.26 A	1.14 A	1.55 A	426 A	-640 A	-124 A
9/25/2005	2.57 A	1.87 A	2.29 A	1,070 A	-1,060 A	133 A
9/26/2005	1.87 A	1.13 A	1.44 A	664 A	-66 A	228 A
9/27/2005	2.21 A	0.50 A	1.37 A	921 A	-865 A	-24 A
9/28/2005	2.21 A	1.60 A	1.94 A	940 A	-663 A	62 A
9/29/2005	1.88 A	1.16 A	1.42 A	622 A	-211 A	162 A
9/30/2005	2.57 A	1.18 A	2.25 A	1,020 A	-1,210 A	-301 A
10/1/2005	2.61 A	2.21 A	2.40 A	899 A	-802 A	165 A
10/2/2005	2.29 A	1.53 A	2.01 A	1,130 A	-617 A	187 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
10/3/2005	2.23 A	1.82 A	2.05 A	698 A	-492 A	29 A
10/4/2005	2.05 A	1.32 A	1.80 A	971 A	-396 A	149 A
10/5/2005	2.28 A	1.45 A	1.93 A	829 A	-854 A	-59 A
10/6/2005	2.20 A	1.46 A	1.92 A	965 A	-608 A	88 A
10/7/2005	2.41 A	1.46 A	2.02 A	1,020 A	-823 A	402 A
10/8/2005	3.37 A	1.86 A	2.69 A	3,040 A	253 A	1,710 A
10/9/2005	4.55 A	3.37 A	4.05 A	4,120 A	2,710 A	3,360 A
10/10/2005	4.70 A	4.52 A	4.60 A	4,550 A	3,560 A	4,100 A
10/11/2005	4.66 A	4.46 A	4.56 A	4,590 A	3,760 A	4,180 A
10/12/2005	4.50 A	4.07 A	4.31 A	4,320 A	3,340 A	3,760 A
10/13/2005	4.11 A	3.36 A	3.77 A	3,620 A	2,600 A	3,130 A
10/14/2005	3.37 A	2.92 A	3.11 A	2,910 A	1,310 A	2,170 A
10/15/2005	2.99 A	2.61 A	2.79 A	1,860 A	800 A	1,330 A
10/16/2005	2.80 A	2.32 A	2.55 A	1,430 A	-334 A	834 A
10/17/2005	2.72 A	2.16 A	2.45 A	1,020 A	-395 A	556 A
10/18/2005	2.17 A	1.38 A	1.77 A	1,010 A	-64 A	562 A
10/19/2005	2.09 A	1.23 A	1.62 A	997 A	-439 A	300 A
10/20/2005	1.81 A	1.17 A	1.40 A	688 A	-234 A	238 A
10/21/2005	1.72 A	1.07 A	1.48 A	386 A	-123 A	169 A
10/22/2005	2.44 A	1.21 A	1.76 A	1,640 A	-844 A	460 A
10/23/2005	2.10 A	0.91 A	1.68 A	1,040 A	-242 A	526 A
10/24/2005	2.99 A	2.10 A	2.60 A	1,310 A	-225 A	413 A
10/25/2005	2.84 A	1.38 A	1.83 A	2,310 A	1,110 A	1,620 A
10/26/2005	2.36 A	1.32 A	1.84 A	1,930 A	1,090 A	1,440 A
10/27/2005	2.58 A	2.33 A	2.43 A	2,300 A	1,390 A	1,880 A
10/28/2005	2.81 A	2.43 A	2.57 A	2,130 A	821 A	1,570 A
10/29/2005	2.54 A	1.82 A	2.13 A	2,090 A	733 A	1,420 A
10/30/2005	2.13 A	1.37 A	1.79 A	1,560 A	316 A	839 A
10/31/2005	1.75 A	1.23 A	1.55 A	805 A	297 A	586 A
11/1/2005	1.93 A	1.15 A	1.53 A	888 A	-13 A	412 A
11/2/2005	2.41 A	1.01 A	1.70 A	1,400 A	-782 A	268 A
11/3/2005	1.67 A	1.10 A	1.48 A	742 A	36 A	358 A
11/4/2005	1.32 A	1.04 A	1.16 A	478 A	55 A	239 A
11/5/2005	1.31 A	0.92 A	1.09 A	388 A	55 A	200 A
11/6/2005	1.40 A	0.80 A	1.09 A	494 A	-62 A	166 A
11/7/2005	2.02 A	0.74 A	1.17 A	1,010 A	-728 A	59 A
11/8/2005	1.62 A	0.88 A	1.16 A	1,010 A	-159 A	204 A
11/9/2005	1.23 A	0.61 A	0.95 A	388 A	-120 A	147 A
11/10/2005	1.43 A	0.03 A	0.62 A	426 A	-441 A	62 A
11/11/2005	1.66 A	1.20 A	1.40 A	531 A	-181 A	100 A
11/12/2005	1.57 A	1.17 A	1.37 A	352 A	-181 A	102 A
11/13/2005	1.65 A	0.75 A	1.23 A	588 A	-244 A	95 A
11/14/2005	1.54 A	0.79 A	1.17 A	581 A	-254 A	96 A
11/15/2005	1.56 A	0.87 A	1.17 A	483 A	-319 A	83 A
11/16/2005	1.27 A	0.78 A	1.01 A	485 A	-305 A	91 A
11/17/2005	2.08 A	-0.09 A	1.03 A	969 A	-815 A	29 A
11/18/2005	1.87 A	1.04 A	1.50 A	649 A	-492 A	50 A
11/19/2005	1.69 A	1.22 A	1.44 A	324 A	-123 A	71 A
11/20/2005	1.40 A	0.89 A	1.17 A	349 A	-140 A	87 A
11/21/2005	2.03 A	0.83 A	1.32 A	1,090 A	-339 A	192 A
11/22/2005	1.33 A	-1.19 A	0.29 A	750 A	-333 A	353 A
11/23/2005	1.28 A	0.25 A	0.79 A	791 A	257 A	447 A
11/24/2005	0.93 A	-0.24 A	0.46 A	867 A	63 A	426 A
11/25/2005	2.42 A	0.61 A	1.57 A	1,420 A	-925 A	225 A
11/26/2005	1.86 A	1.06 A	1.35 A	700 A	17 A	316 A
11/27/2005	1.47 A	0.90 A	1.21 A	479 A	-91 A	199 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
11/28/2005	1.53 A	0.97 A	1.24 A	482 A	-91 A	186 A
11/29/2005	1.83 A	0.99 A	1.28 A	713 A	-225 A	174 A
11/30/2005	1.65 A	0.75 A	1.12 A	651 A	-831 A	169 A
12/1/2005	2.12 A	1.28 A	1.63 A	844 A	-900 A	171 A
12/2/2005	1.35 A	0.27 A	0.83 A	567 A	-489 A	189 A
12/3/2005	1.64 A	0.92 A	1.40 A	466 A	-327 A	136 A
12/4/2005	1.51 A	-0.25 A	0.70 A	435 A	-483 A	113 A
12/5/2005	2.27 A	0.78 A	1.60 A	1,090 A	-922 A	113 A
12/6/2005	1.83 A	0.36 A	1.25 A	744 A	-186 A	361 A
12/7/2005	1.59 A	1.12 A	1.34 A	797 A	322 A	540 A
12/8/2005	2.37 A	1.35 A	1.90 A	1,060 A	-417 A	279 A
12/9/2005	2.44 A	0.64 A	1.40 A	1,440 A	-410 A	618 A
12/10/2005	1.61 A	0.91 A	1.37 A	619 A	-33 A	350 A
12/11/2005	1.20 A	0.44 A	0.83 A	611 A	123 A	340 A
12/12/2005	1.27 A	0.87 A	1.05 A	476 A	36 A	276 A
12/13/2005	2.05 A	1.04 A	1.55 A	842 A	-527 A	150 A
12/14/2005	2.07 A	1.44 A	1.59 A	1,010 A	-320 A	294 A
12/15/2005	2.02 A	1.36 A	1.66 A	690 A	-399 A	212 A
12/16/2005	1.94 A	0.71 A	1.33 A	755 A	-496 A	238 A
12/17/2005	1.96 A	1.32 A	1.68 A	786 A	264 A	500 A
12/18/2005	2.74 A	1.95 A	2.35 A	1,470 A	-635 A	554 A
12/19/2005	2.20 A	1.59 A	1.83 A	1,450 A	605 A	1,010 A
12/20/2005	1.60 A	1.42 A	1.49 A	1,240 A	653 A	915 A
12/21/2005	1.97 A	1.37 A	1.61 A	1,160 A	285 A	717 A
12/22/2005	1.79 A	1.28 A	1.51 A	854 A	205 A	583 A
12/23/2005	1.36 A	1.04 A	1.17 A	663 A	228 A	447 A
12/24/2005	1.05 A	0.80 A	0.93 A	593 A	182 A	343 A
12/25/2005	1.44 A	0.87 A	1.06 A	637 A	96 A	332 A
12/26/2005	0.91 A	-0.34 A	0.43 A	707 A	120 A	442 A
12/27/2005	1.29 A	0.54 A	0.97 A	809 A	287 A	581 A
12/28/2005	1.38 A	0.90 A	1.12 A	758 A	315 A	572 A
12/29/2005	1.22 A	0.80 A	0.95 A	752 A	329 A	535 A
12/30/2005	1.81 A	0.59 A	1.13 A	1,080 A	144 A	632 A
12/31/2005	1.46 A	0.87 A	1.18 A	910 A	465 A	710 A
1/1/2006	1.62 A	1.12 A	1.33 A	843 A	215 A	550 A
1/2/2006	1.62 A	1.14 A	1.47 A	774 A	203 A	477 A
1/3/2006	1.90 A	0.95 A	1.39 A	777 A	47 A	480 A
1/4/2006	2.08 A	1.76 A	1.95 A	1,110 A	100 A	703 A
1/5/2006	2.26 A	1.81 A	1.92 A	1,420 A	133 A	878 A
1/6/2006	2.53 A	2.14 A	2.30 A	1,290 A	-296 A	704 A
1/7/2006	2.58 A	1.82 A	2.21 A	1,460 A	-371 A	696 A
1/8/2006	1.82 A	1.04 A	1.50 A	1,090 A	280 A	611 A
1/9/2006	1.43 A	1.00 A	1.11 A	697 A	171 A	393 A
1/10/2006	1.89 A	1.01 A	1.45 A	671 A	-33 A	270 A
1/11/2006	1.75 A	0.94 A	1.31 A	639 A	-33 A	336 A
1/12/2006	1.37 A	0.93 A	1.14 A	524 A	66 A	279 A
1/13/2006	1.44 A	0.93 A	1.13 A	454 A	45 A	244 A
1/14/2006	1.33 A	-0.67 A	0.16 A	759 A	26 A	356 A
1/15/2006	0.84 A	-0.85 A	-0.02 A	580 A	-482 A	271 A
1/16/2006	1.65 A	0.69 A	1.38 A	626 A	-43 A	277 A
1/17/2006	1.84 A	0.98 A	1.33 A	593 A	-324 A	241 A
1/18/2006	1.54 A	-1.61 A	0.23 A	797 A	-783 A	287 A
1/19/2006	1.30 A	0.37 A	0.96 A	636 A	-223 A	314 A
1/20/2006	1.01 A	0.69 A	0.86 A	557 A	137 A	313 A
1/21/2006	0.80 A	0.43 A	0.65 A	409 A	163 A	285 A
1/22/2006	2.24 A	0.55 A	1.37 A	1,150 A	-898 A	223 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
1/23/2006	0.93 A	0.53 A	0.72 A	592 A	181 A	420 A
1/24/2006	2.06 A	0.63 A	1.18 A	1,280 A	-548 A	563 A
1/25/2006	1.01 A	-0.26 A	0.37 A	956 A	195 A	690 A
1/26/2006	1.23 A	-0.10 A	0.54 A	893 A	259 A	585 A
1/27/2006	1.79 A	0.81 A	1.24 A	924 A	-123 A	505 A
1/28/2006	0.99 A	0.59 A	0.76 A	615 A	166 A	418 A
1/29/2006	1.01 A	0.26 A	0.65 A	729 A	136 A	339 A
1/30/2006	1.20 A	0.25 A	0.88 A	460 A	-31 A	250 A
1/31/2006	1.76 A	-0.94 A	0.60 A	738 A	-518 A	287 A
2/1/2006	1.80 A	0.99 A	1.45 A	1,060 A	-13 A	565 A
2/2/2006	2.01 A	1.28 A	1.67 A	1,040 A	239 A	639 A
2/3/2006	2.02 A	1.40 A	1.67 A	1,180 A	-34 A	621 A
2/4/2006	2.10 A	1.18 A	1.73 A	1,010 A	27 A	552 A
2/5/2006	1.27 A	-0.14 A	0.49 A	769 A	25 A	454 A
2/6/2006	1.85 A	0.45 A	1.01 A	689 A	-382 A	333 A
2/7/2006	1.64 A	0.59 A	1.14 A	510 A	-290 A	249 A
2/8/2006	1.94 A	0.86 A	1.37 A	867 A	-379 A	259 A
2/9/2006	1.68 A	0.73 A	1.05 A	478 A	-609 A	189 A
2/10/2006	1.71 A	0.00 A	1.02 A	721 A	-463 A	296 A
2/11/2006	2.21 A	0.44 A	1.45 A	1,180 A	-600 A	150 A
2/12/2006	1.21 A	-0.70 A	0.17 A	731 A	-494 A	195 A
2/13/2006	1.39 A	0.64 A	0.90 A	397 A	-335 A	189 A
2/14/2006	1.38 A	0.27 A	0.69 A	548 A	-251 A	191 A
2/15/2006	1.08 A	0.40 A	0.78 A	414 A	-22 A	157 A
2/16/2006	1.03 A	0.61 A	0.84 A	385 A	-13 A	141 A
2/17/2006	0.83 A	0.13 A	0.56 A	487 A	-106 A	174 A
2/18/2006	2.03 A	0.37 A	1.19 A	965 A	-891 A	121 A
2/19/2006	2.27 A	0.30 A	1.27 A	1,310 A	-849 A	85 A
2/20/2006	1.18 A	0.38 A	0.69 A	508 A	-148 A	177 A
2/21/2006	0.69 A	0.21 A	0.43 A	344 A	-69 A	120 A
2/22/2006	0.84 A	0.37 A	0.55 A	249 A	-136 A	110 A
2/23/2006	1.06 A	0.48 A	0.74 A	554 A	-205 A	148 A
2/24/2006	1.48 A	-0.08 A	0.60 A	765 A	-248 A	223 A
2/25/2006	1.48 A	0.02 A	0.83 A	560 A	-500 A	303 A
2/26/2006	2.48 A	0.12 A	1.38 A	1,690 A	-957 A	168 A
2/27/2006	1.48 A	0.26 A	0.81 A	567 A	-62 A	243 A
2/28/2006	1.06 A	0.10 A	0.60 A	402 A	-462 A	141 A
3/1/2006	1.97 A	0.34 A	1.05 A	560 A	-688 A	91 A
3/2/2006	1.21 A	0.12 A	0.65 A	526 A	-40 A	213 A
3/3/2006	2.30 A	0.35 A	1.47 A	1,070 A	-1,060 A	23 A
3/4/2006	1.60 A	0.83 A	1.17 A	587 A	-452 A	163 A
3/5/2006	2.01 A	0.69 A	1.25 A	772 A	-695 A	85 A
3/6/2006	1.78 A	0.55 A	1.13 A	582 A	-573 A	78 A
3/7/2006	1.92 A	0.71 A	1.37 A	728 A	-479 A	82 A
3/8/2006	1.66 A	0.86 A	1.21 A	530 A	-229 A	147 A
3/9/2006	1.14 A	0.28 A	0.88 A	590 A	-332 A	103 A
3/10/2006	0.97 A	0.13 A	0.47 A	405 A	-518 A	114 A
3/11/2006	1.59 A	0.33 A	0.94 A	597 A	-328 A	50 A
3/12/2006	1.11 A	0.26 A	0.79 A	485 A	-293 A	133 A
3/13/2006	0.93 A	0.04 A	0.52 A	491 A	-174 A	110 A
3/14/2006	0.56 A	-0.15 A	0.17 A	343 A	-259 A	64 A
3/15/2006	0.86 A	-0.83 A	0.08 A	479 A	-687 A	70 A
3/16/2006	0.96 A	0.25 A	0.62 A	367 A	-241 A	61 A
3/17/2006	2.19 A	0.29 A	0.92 A	392 A	-1,000 A	-171 A
3/18/2006	2.18 A	0.62 A	1.13 A	1,360 A	-525 A	233 A
3/19/2006	1.91 A	0.47 A	1.12 A	1,000 A	-559 A	81 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
3/20/2006	2.07 A	0.22 A	0.99 A	1,090 A	-797 A	41 A
3/21/2006	2.25 A	0.56 A	1.62 A	844 A	-773 A	49 A
3/22/2006	1.92 A	0.52 A	1.14 A	1,260 A	-688 A	226 A
3/23/2006	2.16 A	0.66 A	1.33 A	1,140 A	-777 A	231 A
3/24/2006	2.08 A	1.34 A	1.69 A	1,150 A	-528 A	161 A
3/25/2006	1.71 A	0.80 A	1.19 A	1,190 A	-151 A	295 A
3/26/2006	1.70 A	0.63 A	1.14 A	529 A	-462 A	196 A
3/27/2006	1.78 A	0.71 A	1.24 A	679 A	-346 A	179 A
3/28/2006	1.44 A	0.52 A	1.01 A	545 A	-199 A	195 A
3/29/2006	1.82 A	0.67 A	1.27 A	628 A	-525 A	56 A
3/30/2006	1.85 A	1.23 A	1.53 A	561 A	-474 A	130 A
3/31/2006	1.63 A	0.85 A	1.26 A	634 A	-181 A	169 A
4/1/2006	1.12 A	-0.16 A	0.66 A	518 A	-433 A	114 A
4/2/2006	1.81 A	0.96 A	1.45 A	458 A	-562 A	24 A
4/3/2006	1.77 A	0.52 A	1.22 A	820 A	-265 A	217 A
4/4/2006	1.31 A	-0.30 A	0.65 A	820 A	-687 A	76 A
4/5/2006	1.87 A	-0.02 A	0.72 A	553 A	-841 A	79 A
4/6/2006	2.16 A	0.80 A	1.44 A	926 A	-968 A	176 A
4/7/2006	1.21 A	-0.58 A	0.59 A	540 A	-263 A	167 A
4/8/2006	0.66 A	-0.41 A	0.20 A	572 A	-499 A	57 A
4/9/2006	2.11 A	0.66 A	1.56 A	987 A	-719 A	43 A
4/10/2006	1.90 A	1.17 A	1.54 A	624 A	-253 A	195 A
4/11/2006	1.77 A	1.10 A	1.42 A	761 A	-309 A	159 A
4/12/2006	1.53 A	0.67 A	1.10 A	526 A	-465 A	150 A
4/13/2006	1.24 A	-0.10 A	0.74 A	762 A	-467 A	139 A
4/14/2006	1.09 A	-0.10 A	0.46 A	651 A	-476 A	74 A
4/15/2006	1.04 A	-0.44 A	0.39 A	491 A	-425 A	60 A
4/16/2006	2.09 A	0.36 A	1.22 A	1,140 A	-720 A	-26 A
4/17/2006	2.45 A	0.27 A	1.21 A	759 A	-1,080 A	-126 A
4/18/2006	2.47 A	1.05 A	1.64 A	1,380 A	-849 A	250 A
4/19/2006	1.36 A	0.52 A	0.95 A	695 A	-370 A	127 A
4/20/2006	1.30 A	0.35 A	0.86 A	391 A	-324 A	14 A
4/21/2006	1.21 A	0.34 A	0.83 A	500 A	-343 A	86 A
4/22/2006	1.30 A	0.11 A	0.86 A	640 A	-497 A	2.3 A
4/23/2006	1.28 A	0.65 A	0.90 A	503 A	-376 A	95 A
4/24/2006	1.42 A	0.20 A	0.79 A	413 A	-449 A	74 A
4/25/2006	1.51 A	0.71 A	1.12 A	500 A	-379 A	53 A
4/26/2006	2.53 A	0.16 A	1.54 A	1,320 A	-1,160 A	-88 A
4/27/2006	2.45 A	1.73 A	2.08 A	892 A	-871 A	-67 A
4/28/2006	2.61 A	1.67 A	1.95 A	1,400 A	-1,210 A	134 A
4/29/2006	2.99 A	2.06 A	2.50 A	1,230 A	-996 A	-31 A
4/30/2006	3.02 A	2.28 A	2.64 A	1,280 A	-848 A	246 A
5/1/2006	2.84 A	1.99 A	2.39 A	1,170 A	-627 A	370 A
5/2/2006	2.39 A	1.40 A	1.96 A	1,060 A	-699 A	338 A
5/3/2006	2.10 A	1.06 A	1.34 A	454 A	-827 A	-29 A
5/4/2006	2.08 A	0.88 A	1.59 A	1,040 A	-527 A	161 A
5/5/2006	1.48 A	0.85 A	1.26 A	315 A	-91 A	90 A
5/6/2006	1.68 A	0.89 A	1.45 A	502 A	-373 A	38 A
5/7/2006	2.80 A	1.37 A	2.21 A	686 A	-1,270 A	-247 A
5/8/2006	2.69 A	1.22 A	1.88 A	1,730 A	-402 A	628 A
5/9/2006	2.46 A	1.97 A	2.27 A	1,070 A	-469 A	377 A
5/10/2006	2.47 A	1.50 A	1.92 A	1,560 A	294 A	1,040 A
5/11/2006	2.02 A	1.23 A	1.77 A	1,090 A	176 A	675 A
5/12/2006	1.99 A	0.92 A	1.56 A	1,140 A	-74 A	453 A
5/13/2006	1.84 A	1.12 A	1.64 A	718 A	-63 A	267 A
5/14/2006	1.97 A	0.60 A	1.50 A	991 A	-629 A	231 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
5/15/2006	2.11 A	0.19 A	1.35 A	962 A	-811 A	165 A
5/16/2006	1.85 A	0.17 A	1.36 A	779 A	-813 A	124 A
5/17/2006	1.82 A	0.98 A	1.53 A	757 A	-113 A	279 A
5/18/2006	1.27 A	0.18 A	0.95 A	600 A	-245 A	295 A
5/19/2006	1.39 A	0.01 A	0.79 A	646 A	-629 A	158 A
5/20/2006	1.86 A	-0.09 A	0.95 A	774 A	-412 A	300 A
5/21/2006	2.25 A	0.87 A	1.48 A	1,250 A	-766 A	389 A
5/22/2006	2.40 A	1.19 A	1.68 A	1,600 A	-765 A	237 A
5/23/2006	2.30 A	1.13 A	1.64 A	1,010 A	-859 A	158 A
5/24/2006	1.96 A	0.96 A	1.56 A	685 A	-458 A	208 A
5/25/2006	1.58 A	0.02 A	1.02 A	699 A	-267 A	165 A
5/26/2006	1.15 A	-0.07 A	0.58 A	717 A	-664 A	99 A
5/27/2006	1.68 A	-0.02 A	0.97 A	819 A	-869 A	33 A
5/28/2006	1.87 A	1.19 A	1.58 A	626 A	-223 A	188 A
5/29/2006	2.15 A	1.52 A	1.84 A	861 A	-442 A	154 A
5/30/2006	1.98 A	1.27 A	1.48 A	963 A	-73 A	294 A
5/31/2006	1.42 A	1.06 A	1.23 A	469 A	-259 A	132 A
6/1/2006	1.28 A	0.41 A	1.00 A	563 A	-91 A	163 A
6/2/2006	0.98 A	-0.04 A	0.52 A	602 A	-384 A	150 A
6/3/2006	1.22 A	-0.24 A	0.29 A	346 A	-629 A	8.2 A
6/4/2006	1.53 A	0.61 A	1.03 A	727 A	-436 A	115 A
6/5/2006	1.48 A	0.34 A	1.00 A	464 A	-278 A	104 A
6/6/2006	1.81 A	1.12 A	1.54 A	832 A	-494 A	144 A
6/7/2006	1.48 A	0.85 A	1.09 A	569 A	-42 A	285 A
6/8/2006	1.54 A	0.41 A	0.85 A	810 A	-380 A	336 A
6/9/2006	1.55 A	0.67 A	1.09 A	645 A	-101 A	221 A
6/10/2006	1.66 A	0.65 A	1.14 A	683 A	-295 A	223 A
6/11/2006	2.17 A	0.82 A	1.55 A	1,340 A	-796 A	71 A
6/12/2006	P	P	P	P	P	P
6/13/2006	P	P	P	P	P	P
6/14/2006	P	P	P	P	P	P
6/15/2006	P	P	P	P	P	P
6/16/2006	P	P	P	P	P	P
6/17/2006	P	P	P	P	P	P
6/18/2006	P	P	P	P	P	P
6/19/2006	P	P	P	454 A	P	P
6/20/2006	1.36 A	0.50 A	0.83 A	548 A	-337 A	124 A
6/21/2006	1.62 A	0.72 A	1.06 A	570 A	-467 A	81 A
6/22/2006	1.84 A	1.06 A	1.34 A	703 A	-595 A	73 A
6/23/2006	1.73 A	1.18 A	1.42 A	354 A	-303 A	49 A
6/24/2006	1.76 A	1.37 A	1.57 A	307 A	-413 A	85 A
6/25/2006	2.06 A	1.57 A	1.84 A	639 A	-313 A	59 A
6/26/2006	P	P	P	P	-549 A	P
6/27/2006	P	P	P	P	P	P
6/28/2006	P	P	P	P	-198 A	P
6/29/2006	2.21 A	1.85 A	2.06 A	1,260 A	318 A	679 A
6/30/2006	2.24 A	1.78 A	2.04 A	1,140 A	-34 A	652 A
7/1/2006	2.13 A	1.79 A	1.98 A	978 A	467 A	726 A
7/2/2006	1.84 A	1.24 A	1.57 A	793 A	264 A	490 A
7/3/2006	1.44 A	0.91 A	1.15 A	584 A	66 A	306 A
7/4/2006	1.82 A	0.86 A	1.25 A	1,020 A	-144 A	448 A
7/5/2006	1.42 A	0.74 A	1.04 A	580 A	46 A	302 A
7/6/2006	1.99 A	0.73 A	1.21 A	732 A	-980 A	182 A
7/7/2006	2.06 A	1.12 A	1.79 A	900 A	-773 A	139 A
7/8/2006	2.08 A	1.54 A	1.76 A	532 A	-275 A	239 A
7/9/2006	1.93 A	1.23 A	1.47 A	603 A	-336 A	182 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
7/10/2006	1.73 A	0.89 A	1.34 A	572 A	-473 A	133 A
7/11/2006	1.52 A	0.72 A	1.05 A	576 A	-418 A	113 A
7/12/2006	1.17 A	0.32 A	0.85 A	502 A	-380 A	107 A
7/13/2006	0.64 A	-0.08 A	0.32 A	398 A	-328 A	94 A
7/14/2006	1.47 A	-0.27 A	0.51 A	620 A	-808 A	34 A
7/15/2006	1.34 A	0.04 A	0.56 A	430 A	-530 A	26 A
7/16/2006	1.95 A	0.40 A	1.20 A	363 A	-779 A	-114 A
7/17/2006	1.93 A	0.99 A	1.44 A	837 A	-346 A	85 A
7/18/2006	1.61 A	0.90 A	1.34 A	521 A	-345 A	37 A
7/19/2006	1.80 A	0.92 A	1.32 A	394 A	-501 A	-5.5 A
7/20/2006	1.95 A	0.83 A	1.28 A	783 A	-712 A	119 A
7/21/2006	1.34 A	0.27 A	0.90 A	513 A	-518 A	77 A
7/22/2006	0.67 A	0.04 A	0.37 A	285 A	-219 A	51 A
7/23/2006	1.19 A	-0.17 A	0.49 A	506 A	-331 A	54 A
7/24/2006	1.81 A	-0.02 A	1.31 A	690 A	-917 A	-66 A
7/25/2006	1.60 A	0.77 A	1.23 A	532 A	-317 A	146 A
7/26/2006	1.45 A	0.80 A	1.18 A	547 A	-81 A	192 A
7/27/2006	1.44 A	0.40 A	1.05 A	421 A	-178 A	127 A
7/28/2006	1.15 A	0.01 A	0.60 A	601 A	-461 A	86 A
7/29/2006	1.69 A	-0.13 A	0.61 A	779 A	-880 A	44 A
7/30/2006	0.99 A	0.22 A	0.51 A	264 A	-283 A	-8.4 A
7/31/2006	1.46 A	0.52 A	1.00 A	612 A	-474 A	38 A
8/1/2006	1.14 A	0.83 A	1.00 A	430 A	-138 A	53 A
8/2/2006	1.11 A	0.45 A	0.74 A	414 A	-248 A	61 A
8/3/2006	0.90 A	0.30 A	0.58 A	435 A	-308 A	72 A
8/4/2006	1.68 A	0.37 A	0.72 A	917 A	-902 A	14 A
8/5/2006	2.01 A	0.60 A	1.34 A	1,160 A	-893 A	-110 A
8/6/2006	2.14 A	0.99 A	1.60 A	1,170 A	-797 A	111 A
8/7/2006	1.64 A	0.60 A	1.19 A	501 A	-226 A	110 A
8/8/2006	1.28 A	0.37 A	0.64 A	667 A	-1,060 A	30 A
8/9/2006	2.07 A	0.95 A	1.55 A	1,380 A	-1,060 A	-3.1 A
8/10/2006	1.62 A	0.69 A	1.38 A	547 A	-222 A	110 A
8/11/2006	1.84 A	0.68 A	1.33 A	547 A	-555 A	-28 A
8/12/2006	2.57 A	1.77 A	2.28 A	1,150 A	-1,120 A	-218 A
8/13/2006	2.29 A	1.68 A	2.06 A	883 A	-495 A	254 A
8/14/2006	1.71 A	1.26 A	1.56 A	733 A	-450 A	102 A
8/15/2006	1.30 A	0.82 A	1.09 A	409 A	-225 A	48 A
8/16/2006	1.95 A	0.90 A	1.38 A	313 A	-466 A	-83 A
8/17/2006	1.99 A	1.12 A	1.57 A	724 A	-734 A	89 A
8/18/2006	1.81 A	1.09 A	1.51 A	731 A	-737 A	-15 A
8/19/2006	1.97 A	1.08 A	1.46 A	883 A	-738 A	74 A
8/20/2006	1.37 A	0.15 A	0.79 A	625 A	-446 A	71 A
8/21/2006	1.23 A	0.07 A	0.61 A	271 A	-681 A	-30 A
8/22/2006	2.13 A	0.48 A	1.20 A	1,230 A	-925 A	128 A
8/23/2006	2.25 A	0.91 A	1.65 A	1,470 A	-497 A	719 A
8/24/2006	1.85 A	1.23 A	1.62 A	784 A	17 A	433 A
8/25/2006	1.75 A	1.04 A	1.42 A	670 A	-202 A	248 A
8/26/2006	1.80 A	1.04 A	1.39 A	704 A	-408 A	103 A
8/27/2006	1.71 A	1.17 A	1.44 A	512 A	-142 A	99 A
8/28/2006	1.49 A	0.86 A	1.25 A	649 A	-249 A	80 A
8/29/2006	1.50 A	0.34 A	0.87 A	677 A	-403 A	77 A
8/30/2006	1.73 A	-0.05 A	0.86 A	1,080 A	-623 A	122 A
8/31/2006	2.92 A	1.26 A	1.91 A	1,120 A	-1,410 A	-94 A
9/1/2006	4.58 A	2.92 A	3.99 A	3,440 A	-1,620 A	1,320 A
9/2/2006	3.64 A	3.28 A	3.42 A	3,330 A	2,620 A	2,930 A
9/3/2006	4.15 A	3.57 A	3.87 A	3,290 A	2,640 A	2,970 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
9/4/2006	4.47 A	4.11 A	4.31 A	3,500 A	2,880 A	3,180 A
9/5/2006	4.55 A	4.43 A	4.50 A	3,720 A	2,880 A	3,330 A
9/6/2006	4.54 A	4.47 A	4.51 A	3,770 A	2,820 A	3,320 A
9/7/2006	4.56 A	4.38 A	4.48 A	3,240 A	2,560 A	2,870 A
9/8/2006	4.38 A	4.02 A	4.22 A	2,940 A	2,050 A	2,450 A
9/9/2006	4.02 A	3.55 A	3.76 A	2,500 A	1,450 A	1,970 A
9/10/2006	3.55 A	3.19 A	3.35 A	1,800 A	329 A	1,200 A
9/11/2006	3.71 A	3.27 A	3.48 A	1,240 A	-229 A	500 A
9/12/2006	3.62 A	3.27 A	3.38 A	1,100 A	108 A	720 A
9/13/2006	3.29 A	2.70 A	2.96 A	1,110 A	353 A	763 A
9/14/2006	2.73 A	2.36 A	2.56 A	770 A	293 A	535 A
9/15/2006	2.57 A	2.36 A	2.45 A	548 A	-297 A	153 A
9/16/2006	2.65 A	2.07 A	2.35 A	972 A	-1,150 A	273 A
9/17/2006	2.57 A	2.26 A	2.42 A	858 A	-645 A	215 A
9/18/2006	2.40 A	1.85 A	2.07 A	861 A	17 A	392 A
9/19/2006	1.89 A	1.34 A	1.66 A	685 A	-84 A	248 A
9/20/2006	2.34 A	1.33 A	1.90 A	905 A	-613 A	216 A
9/21/2006	2.49 A	1.89 A	2.29 A	903 A	-408 A	43 A
9/22/2006	2.41 A	1.90 A	2.17 A	903 A	-261 A	318 A
9/23/2006	1.90 A	0.86 A	1.41 A	792 A	35 A	288 A
9/24/2006	1.23 A	0.63 A	0.91 A	471 A	-51 A	137 A
9/25/2006	1.95 A	0.14 A	1.10 A	808 A	-797 A	29 A
9/26/2006	1.64 A	1.06 A	1.40 A	453 A	-192 A	93 A
9/27/2006	1.93 A	1.29 A	1.57 A	455 A	-446 A	29 A
9/28/2006	1.85 A	1.12 A	1.39 A	702 A	-399 A	147 A
9/29/2006	1.64 A	0.60 A	1.07 A	489 A	-339 A	57 A
9/30/2006	1.67 A	1.14 A	1.45 A	456 A	-400 A	96 A
10/1/2006	1.73 A	0.89 A	1.24 A	323 A	-341 A	47 A
10/2/2006	1.98 A	0.82 A	1.51 A	992 A	-530 A	86 A
10/3/2006	1.56 A	1.19 A	1.36 A	244 A	-82 A	71 A
10/4/2006	1.54 A	0.94 A	1.18 A	360 A	-289 A	68 A
10/5/2006	2.14 A	0.66 A	1.15 A	269 A	-902 A	-81 A
10/6/2006	2.31 A	1.03 A	1.60 A	1,260 A	-889 A	181 A
10/7/2006	2.05 A	0.85 A	1.50 A	831 A	-680 A	28 A
10/8/2006	3.17 A	1.88 A	2.69 A	18 A	-951 A	-582 A
10/9/2006	3.19 A	2.84 A	3.00 A	1,180 A	-866 A	309 A
10/10/2006	2.94 A	2.47 A	2.72 A	1,210 A	-791 A	165 A
10/11/2006	2.65 A	2.05 A	2.29 A	823 A	-188 A	424 A
10/12/2006	2.23 A	1.16 A	1.68 A	726 A	-699 A	35 A
10/13/2006	2.48 A	1.57 A	2.11 A	1,030 A	-932 A	63 A
10/14/2006	2.20 A	1.37 A	1.88 A	718 A	-565 A	126 A
10/15/2006	2.16 A	1.60 A	1.84 A	684 A	-533 A	82 A
10/16/2006	2.26 A	1.79 A	2.01 A	718 A	-755 A	-40 A
10/17/2006	2.36 A	1.39 A	1.85 A	1,100 A	-729 A	205 A
10/18/2006	2.03 A	1.00 A	1.58 A	546 A	-698 A	35 A
10/19/2006	2.26 A	1.71 A	1.98 A	922 A	-609 A	85 A
10/20/2006	1.98 A	0.77 A	1.47 A	844 A	-632 A	155 A
10/21/2006	2.52 A	1.95 A	2.24 A	592 A	-737 A	-149 A
10/22/2006	2.56 A	1.58 A	2.07 A	874 A	-695 A	324 A
10/23/2006	1.81 A	0.64 A	1.34 A	432 A	-724 A	85 A
10/24/2006	1.34 A	0.43 A	0.98 A	363 A	-595 A	36 A
10/25/2006	1.57 A	0.91 A	1.20 A	465 A	-277 A	36 A
10/26/2006	1.79 A	1.12 A	1.42 A	580 A	-507 A	24 A
10/27/2006	1.73 A	1.11 A	1.39 A	380 A	-271 A	31 A
10/28/2006	1.78 A	0.16 A	0.88 A	781 A	-284 A	232 A
10/29/2006	1.64 A	0.74 A	1.12 A	821 A	-110 A	365 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
10/30/2006	1.44 A	0.85 A	1.23 A	706 A	300 A	501 A
10/31/2006	1.32 A	1.16 A	1.23 A	513 A	170 A	337 A
11/1/2006	1.39 A	1.05 A	1.21 A	467 A	6.7 A	203 A
11/2/2006	2.23 A	1.04 A	1.46 A	1,150 A	-1,000 A	24 A
11/3/2006	2.41 A	0.76 A	1.69 A	1,290 A	-774 A	175 A
11/4/2006	2.14 A	1.49 A	1.86 A	774 A	-465 A	112 A
11/5/2006	2.05 A	1.49 A	1.84 A	476 A	-461 A	47 A
11/6/2006	1.95 A	1.22 A	1.60 A	967 A	-417 A	163 A
11/7/2006	2.14 A	1.36 A	1.65 A	817 A	-541 A	108 A
11/8/2006	1.90 A	1.25 A	1.61 A	726 A	-246 A	308 A
11/9/2006	2.19 A	1.04 A	1.70 A	824 A	69 A	433 A
11/10/2006	2.19 A	1.79 A	1.98 A	1,120 A	131 A	609 A
11/11/2006	2.06 A	1.71 A	1.91 A	1,010 A	-44 A	488 A
11/12/2006	1.97 A	-0.88 A	0.83 A	978 A	6.8 A	571 A
11/13/2006	1.89 A	-0.87 A	1.10 A	616 A	-344 A	324 A
11/14/2006	2.07 A	1.70 A	1.89 A	1,160 A	515 A	789 A
11/15/2006	2.16 A	1.84 A	2.03 A	1,290 A	445 A	821 A
11/16/2006	2.66 A	1.72 A	2.26 A	1,550 A	-141 A	648 A
11/17/2006	2.04 A	1.10 A	1.55 A	1,180 A	-3.2 A	657 A
11/18/2006	2.57 A	1.79 A	2.10 A	1,380 A	-549 A	597 A
11/19/2006	2.22 A	2.08 A	2.16 A	990 A	352 A	645 A
11/20/2006	2.84 A	2.11 A	2.39 A	678 A	-317 A	178 A
11/21/2006	4.60 A	2.83 A	3.32 A	546 A	-2,620 A	-755 A
11/22/2006	5.18 A	4.45 A	4.88 A	2,550 A	-1,070 A	1,600 A
11/23/2006	5.30 A	5.14 A	5.20 A	3,330 A	2,100 A	2,750 A
11/24/2006	5.54 A	5.30 A	5.41 A	3,620 A	2,790 A	3,170 A
11/25/2006	5.54 A	5.42 A	5.48 A	3,550 A	2,740 A	3,110 A
11/26/2006	5.44 A	4.97 A	5.21 A	3,190 A	2,340 A	2,730 A
11/27/2006	4.97 A	4.38 A	4.67 A	2,500 A	1,790 A	2,110 A
11/28/2006	4.39 A	3.88 A	4.11 A	2,040 A	1,170 A	1,530 A
11/29/2006	3.88 A	3.50 A	3.68 A	1,440 A	826 A	1,080 A
11/30/2006	3.50 A	3.26 A	3.39 A	1,040 A	566 A	810 A
12/1/2006	3.27 A	2.79 A	3.09 A	1,020 A	525 A	734 A
12/2/2006	3.00 A	2.74 A	2.86 A	935 A	40 A	342 A
12/3/2006	3.51 A	3.00 A	3.31 A	1,300 A	-379 A	176 A
12/4/2006	3.20 A	2.66 A	2.83 A	1,300 A	251 A	742 A
12/5/2006	2.66 A	2.28 A	2.47 A	854 A	38 A	475 A
12/6/2006	2.44 A	2.08 A	2.34 A	852 A	-14 A	360 A
12/7/2006	2.08 A	1.40 A	1.84 A	786 A	114 A	369 A
12/8/2006	1.92 A	0.97 A	1.53 A	550 A	-491 A	193 A
12/9/2006	1.70 A	1.31 A	1.47 A	428 A	-3.2 A	212 A
12/10/2006	1.36 A	1.07 A	1.16 A	363 A	80 A	184 A
12/11/2006	1.22 A	0.96 A	1.10 A	258 A	26 A	133 A
12/12/2006	1.42 A	1.03 A	1.21 A	273 A	-13 A	129 A
12/13/2006	1.37 A	1.11 A	1.23 A	334 A	6.7 A	132 A
12/14/2006	1.44 A	1.12 A	1.27 A	350 A	-23 A	135 A
12/15/2006	1.44 A	1.12 A	1.26 A	347 A	6.7 A	139 A
12/16/2006	1.76 A	1.15 A	1.37 A	401 A	-212 A	111 A
12/17/2006	1.59 A	1.04 A	1.33 A	377 A	-33 A	148 A
12/18/2006	1.22 A	0.91 A	1.11 A	272 A	6.6 A	137 A
12/19/2006	1.82 A	0.89 A	1.24 A	522 A	-457 A	50 A
12/20/2006	1.84 A	1.39 A	1.64 A	539 A	-464 A	109 A
12/21/2006	1.46 A	0.81 A	1.13 A	408 A	-179 A	140 A
12/22/2006	1.66 A	0.82 A	1.26 A	542 A	-299 A	59 A
12/23/2006	1.77 A	0.81 A	1.23 A	819 A	-253 A	435 A
12/24/2006	2.54 A	1.25 A	1.68 A	718 A	-877 A	269 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
12/25/2006	2.60 A	1.78 A	2.29 A	1,780 A	-665 A	713 A
12/26/2006	1.83 A	1.03 A	1.45 A	1,770 A	820 A	1,080 A
12/27/2006	2.06 A	0.80 A	1.55 A	1,590 A	867 A	1,220 A
12/28/2006	2.18 A	1.98 A	2.07 A	1,700 A	1,060 A	1,430 A
12/29/2006	2.09 A	1.91 A	1.99 A	1,550 A	568 A	1,090 A
12/30/2006	2.12 A	1.86 A	1.98 A	1,240 A	469 A	747 A
12/31/2006	2.37 A	1.91 A	2.14 A	759 A	-117 A	405 A
1/1/2007	2.15 A	1.56 A	2.01 A	925 A	302 A	516 A
1/2/2007	2.43 A	1.52 A	2.06 A	704 A	-346 A	221 A
1/3/2007	2.50 A	2.29 A	2.40 A	896 A	86 A	455 A
1/4/2007	2.31 A	2.13 A	2.22 A	874 A	337 A	550 A
1/5/2007	2.14 A	1.95 A	2.03 A	694 A	208 A	459 A
1/6/2007	2.06 A	1.68 A	1.87 A	1,160 A	347 A	730 A
1/7/2007	2.30 A	1.87 A	2.05 A	1,270 A	479 A	847 A
1/8/2007	2.12 A	1.31 A	1.68 A	1,510 A	766 A	1,130 A
1/9/2007	1.78 A	0.61 A	1.48 A	1,200 A	634 A	905 A
1/10/2007	1.52 A	0.58 A	0.99 A	909 A	316 A	605 A
1/11/2007	1.77 A	1.42 A	1.55 A	729 A	236 A	523 A
1/12/2007	1.46 A	1.04 A	1.28 A	585 A	272 A	432 A
1/13/2007	1.30 A	0.99 A	1.11 A	495 A	212 A	336 A
1/14/2007	1.21 A	0.96 A	1.05 A	421 A	168 A	310 A
1/15/2007	1.23 A	0.84 A	1.02 A	463 A	124 A	282 A
1/16/2007	1.99 A	0.69 A	0.93 A	412 A	-909 A	170 A
1/17/2007	2.25 A	1.74 A	2.01 A	801 A	-745 A	151 A
1/18/2007	2.03 A	1.36 A	1.73 A	749 A	-3.2 A	287 A
1/19/2007	1.75 A	0.69 A	1.17 A	523 A	-221 A	235 A
1/20/2007	1.93 A	0.52 A	1.14 A	517 A	-513 A	163 A
1/21/2007	2.01 A	1.48 A	1.70 A	432 A	-267 A	184 A
1/22/2007	1.98 A	0.86 A	1.46 A	871 A	47 A	419 A
1/23/2007	1.94 A	1.39 A	1.65 A	1,050 A	355 A	685 A
1/24/2007	1.96 A	1.64 A	1.76 A	1,310 A	594 A	962 A
1/25/2007	1.96 A	1.29 A	1.60 A	1,130 A	490 A	814 A
1/26/2007	1.78 A	0.80 A	1.38 A	902 A	-23 A	527 A
1/27/2007	1.58 A	0.81 A	1.14 A	739 A	199 A	470 A
1/28/2007	1.56 A	0.75 A	1.25 A	658 A	127 A	365 A
1/29/2007	1.66 A	0.21 A	0.93 A	561 A	-496 A	276 A
1/30/2007	1.39 A	1.05 A	1.21 A	451 A	155 A	335 A
1/31/2007	1.89 A	0.49 A	1.19 A	675 A	-496 A	260 A
2/1/2007	2.32 A	1.39 A	1.78 A	976 A	-477 A	188 A
2/2/2007	2.10 A	1.31 A	1.73 A	1,100 A	58 A	617 A
2/3/2007	1.88 A	1.16 A	1.60 A	1,060 A	296 A	794 A
2/4/2007	1.63 A	0.89 A	1.28 A	1,230 A	629 A	906 A
2/5/2007	1.56 A	0.85 A	1.16 A	898 A	187 A	639 A
2/6/2007	1.74 A	0.72 A	1.11 A	873 A	188 A	495 A
2/7/2007	1.63 A	-0.06 A	0.87 A	708 A	-273 A	347 A
2/8/2007	1.48 A	0.60 A	0.95 A	626 A	-71 A	322 A
2/9/2007	1.38 A	0.77 A	1.04 A	561 A	-81 A	267 A
2/10/2007	1.08 A	0.64 A	0.86 A	488 A	-3.0 A	210 A
2/11/2007	1.49 A	0.53 A	0.95 A	468 A	-190 A	226 A
2/12/2007	0.87 A	0.51 A	0.73 A	351 A	26 A	172 A
2/13/2007	1.31 A	0.48 A	0.74 A	508 A	-208 A	149 A
2/14/2007	1.50 A	-0.28 A	0.37 A	654 A	-398 A	233 A
2/15/2007	1.56 A	0.42 A	1.05 A	560 A	-239 A	225 A
2/16/2007	1.36 A	0.54 A	0.93 A	515 A	6.7 A	293 A
2/17/2007	1.16 A	0.26 A	0.77 A	463 A	-22 A	264 A
2/18/2007	0.68 A	-0.59 A	0.19 A	589 A	-12 A	231 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
2/19/2007	1.09 A	-0.58 A	0.45 A	411 A	-278 A	117 A
2/20/2007	0.83 A	0.04 A	0.41 A	378 A	-49 A	182 A
2/21/2007	1.27 A	0.01 A	0.47 A	220 A	-325 A	91 A
2/22/2007	1.30 A	-0.16 A	0.60 A	508 A	-335 A	205 A
2/23/2007	1.17 A	0.01 A	0.51 A	414 A	-501 A	76 A
2/24/2007	1.44 A	0.85 A	1.08 A	494 A	-131 A	126 A
2/25/2007	1.78 A	0.61 A	1.24 A	496 A	-496 A	153 A
2/26/2007	1.75 A	0.30 A	1.07 A	491 A	-715 A	102 A
2/27/2007	2.01 A	1.03 A	1.54 A	640 A	-828 A	187 A
2/28/2007	2.28 A	1.03 A	1.61 A	1,020 A	-709 A	70 A
3/1/2007	2.00 A	1.13 A	1.53 A	842 A	-509 A	191 A
3/2/2007	2.06 A	-0.47 A	1.19 A	1,110 A	-745 A	282 A
3/3/2007	1.56 A	0.56 A	1.24 A	820 A	97 A	396 A
3/4/2007	1.80 A	0.35 A	0.87 A	840 A	-475 A	283 A
3/5/2007	1.52 A	0.43 A	0.95 A	607 A	-131 A	308 A
3/6/2007	2.33 A	0.08 A	1.45 A	1,030 A	-1,010 A	25 A
3/7/2007	2.07 A	0.27 A	1.23 A	909 A	-250 A	336 A
3/8/2007	2.34 A	1.10 A	1.86 A	871 A	-994 A	46 A
3/9/2007	2.22 A	1.88 A	2.09 A	582 A	-370 A	149 A
3/10/2007	1.88 A	0.97 A	1.31 A	750 A	6.7 A	236 A
3/11/2007	1.93 A	0.87 A	1.24 A	662 A	-666 A	48 A
3/12/2007	1.94 A	0.93 A	1.36 A	840 A	-615 A	116 A
3/13/2007	1.48 A	0.68 A	1.00 A	531 A	-52 A	177 A
3/14/2007	1.00 A	0.38 A	0.77 A	409 A	-22 A	118 A
3/15/2007	1.04 A	0.20 A	0.56 A	484 A	-350 A	109 A
3/16/2007	1.75 A	-0.48 A	0.72 A	760 A	-707 A	167 A
3/17/2007	1.18 A	-0.51 A	0.66 A	617 A	-597 A	206 A
3/18/2007	1.37 A	0.35 A	1.01 A	819 A	-364 A	267 A
3/19/2007	1.34 A	0.33 A	1.09 A	646 A	-23 A	317 A
3/20/2007	0.84 A	0.32 A	0.63 A	500 A	6.4 A	211 A
3/21/2007	2.19 A	0.72 A	1.44 A	1,000 A	-542 A	150 A
3/22/2007	1.11 A	0.84 A	1.00 A	399 A	-3.1 A	208 A
3/23/2007	1.06 A	0.50 A	0.81 A	558 A	-80 A	193 A
3/24/2007	0.86 A	0.52 A	0.66 A	381 A	-184 A	131 A
3/25/2007	2.46 A	0.56 A	1.45 A	963 A	-1,070 A	-120 A
3/26/2007	2.11 A	0.79 A	1.29 A	1,330 A	-23 A	362 A
3/27/2007	0.84 A	0.45 A	0.62 A	306 A	-60 A	128 A
3/28/2007	1.83 A	0.41 A	0.86 A	384 A	-971 A	14 A
3/29/2007	2.31 A	1.48 A	1.77 A	1,200 A	-830 A	85 A
3/30/2007	1.75 A	0.78 A	1.17 A	531 A	-413 A	144 A
3/31/2007	1.14 A	0.36 A	0.78 A	551 A	-196 A	111 A
4/1/2007	1.20 A	0.29 A	0.70 A	531 A	-292 A	74 A
4/2/2007	1.29 A	0.32 A	0.63 A	489 A	-663 A	53 A
4/3/2007	1.72 A	0.49 A	1.13 A	635 A	-605 A	24 A
4/4/2007	1.36 A	0.39 A	0.84 A	440 A	-218 A	112 A
4/5/2007	2.06 A	0.36 A	1.08 A	1,010 A	-995 A	13 A
4/6/2007	1.76 A	1.18 A	1.44 A	462 A	-581 A	-0.25 A
4/7/2007	1.60 A	-0.82 A	0.44 A	687 A	-626 A	103 A
4/8/2007	1.38 A	0.31 A	0.77 A	391 A	-651 A	56 A
4/9/2007	1.43 A	0.17 A	0.87 A	417 A	-471 A	4.1 A
4/10/2007	1.49 A	0.75 A	1.12 A	465 A	-456 A	23 A
4/11/2007	2.04 A	1.15 A	1.73 A	650 A	-521 A	27 A
4/12/2007	1.21 A	0.08 A	0.69 A	483 A	-270 A	87 A
4/13/2007	1.26 A	0.48 A	0.86 A	491 A	-517 A	39 A
4/14/2007	2.11 A	0.68 A	1.31 A	648 A	-842 A	48 A
4/15/2007	1.59 A	-0.48 A	0.83 A	827 A	-304 A	324 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
4/16/2007	0.49 A	-1.55 A	-0.72 A	970 A	-103 A	574 A
4/17/2007	1.77 A	0.49 A	1.25 A	1,490 A	414 A	1,050 A
4/18/2007	2.85 A	1.74 A	2.32 A	1,680 A	250 A	1,100 A
4/19/2007	2.83 A	2.50 A	2.67 A	1,660 A	589 A	1,210 A
4/20/2007	2.75 A	2.38 A	2.55 A	1,290 A	-290 A	736 A
4/21/2007	2.50 A	1.98 A	2.18 A	1,360 A	38 A	664 A
4/22/2007	2.00 A	1.48 A	1.74 A	974 A	-296 A	372 A
4/23/2007	1.69 A	0.74 A	1.42 A	615 A	36 A	282 A
4/24/2007	1.27 A	0.65 A	0.94 A	433 A	-321 A	157 A
4/25/2007	1.45 A	0.56 A	1.06 A	539 A	-230 A	139 A
4/26/2007	1.73 A	0.48 A	1.11 A	622 A	-449 A	82 A
4/27/2007	1.49 A	0.26 A	0.91 A	404 A	-293 A	163 A
4/28/2007	1.70 A	0.53 A	0.88 A	224 A	-629 A	-19 A
4/29/2007	1.81 A	0.48 A	1.23 A	657 A	-634 A	101 A
4/30/2007	1.37 A	0.43 A	1.01 A	633 A	-305 A	106 A
5/1/2007	1.52 A	0.34 A	0.91 A	503 A	-515 A	47 A
5/2/2007	1.13 A	-0.04 A	0.46 A	490 A	-532 A	69 A
5/3/2007	2.22 A	0.20 A	1.51 A	664 A	-731 A	-211 A
5/4/2007	2.48 A	1.41 A	2.01 A	1,230 A	-838 A	96 A
5/5/2007	1.98 A	1.12 A	1.55 A	1,110 A	-206 A	194 A
5/6/2007	3.17 A	0.77 A	1.93 A	413 A	-1,360 A	-509 A
5/7/2007	3.63 A	3.00 A	3.27 A	1,050 A	-1,130 A	-177 A
5/8/2007	3.61 A	2.48 A	3.01 A	1,400 A	-172 A	935 A
5/9/2007	2.48 A	1.34 A	2.01 A	1,310 A	-594 A	511 A
5/10/2007	1.91 A	1.23 A	1.56 A	769 A	-397 A	127 A
5/11/2007	1.68 A	1.00 A	1.30 A	512 A	-316 A	112 A
5/12/2007	1.64 A	0.90 A	1.29 A	794 A	-316 A	71 A
5/13/2007	2.56 A	0.87 A	1.85 A	540 A	-909 A	-161 A
5/14/2007	2.56 A	1.81 A	2.18 A	1,410 A	-628 A	470 A
5/15/2007	2.03 A	0.20 A	1.20 A	1,250 A	43 A	575 A
5/16/2007	1.27 A	-0.14 A	0.68 A	795 A	-187 A	221 A
5/17/2007	1.71 A	0.07 A	1.06 A	410 A	-479 A	43 A
5/18/2007	1.95 A	1.40 A	1.71 A	643 A	-366 A	132 A
5/19/2007	2.09 A	1.12 A	1.49 A	963 A	-490 A	163 A
5/20/2007	1.56 A	0.58 A	1.00 A	627 A	-529 A	150 A
5/21/2007	2.41 A	0.61 A	1.25 A	329 A	-1,180 A	-189 A
5/22/2007	2.39 A	1.60 A	1.93 A	1,370 A	-526 A	212 A
5/23/2007	2.15 A	1.40 A	1.82 A	763 A	-560 A	86 A
5/24/2007	1.99 A	1.30 A	1.64 A	596 A	-398 A	89 A
5/25/2007	1.60 A	0.79 A	1.19 A	528 A	-288 A	103 A
5/26/2007	1.22 A	0.37 A	0.84 A	518 A	-227 A	90 A
5/27/2007	1.20 A	0.35 A	0.70 A	376 A	-265 A	48 A
5/28/2007	0.86 A	0.30 A	0.61 A	334 A	-258 A	27 A
5/29/2007	1.64 A	0.32 A	0.74 A	289 A	-410 A	-51 A
5/30/2007	1.90 A	0.88 A	1.46 A	605 A	-605 A	91 A
5/31/2007	1.48 A	0.79 A	1.14 A	523 A	-319 A	49 A
6/1/2007	1.41 A	0.35 A	0.91 A	623 A	-344 A	63 A
6/2/2007	1.39 A	0.35 A	0.94 A	358 A	-465 A	0.16 A
6/3/2007	2.34 A	0.49 A	1.38 A	1,420 A	-1,140 A	56 A
6/4/2007	1.81 A	-0.47 A	0.55 A	747 A	-514 A	90 A
6/5/2007	1.26 A	0.02 A	0.85 A	576 A	-462 A	95 A
6/6/2007	2.08 A	0.31 A	1.14 A	570 A	-870 A	-89 A
6/7/2007	2.15 A	0.69 A	1.52 A	1,070 A	-841 A	177 A
6/8/2007	1.52 A	0.56 A	1.00 A	470 A	-435 A	45 A
6/9/2007	2.04 A	0.20 A	1.27 A	638 A	-755 A	-93 A
6/10/2007	2.56 A	1.36 A	1.98 A	656 A	-1,020 A	-234 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
6/11/2007	2.55 A	1.44 A	1.99 A	1,260 A	-563 A	262 A
6/12/2007	1.85 A	1.25 A	1.56 A	706 A	-346 A	55 A
6/13/2007	2.70 A	1.36 A	2.22 A	423 A	-1,040 A	-327 A
6/14/2007	2.51 A	2.04 A	2.33 A	717 A	-947 A	142 A
6/15/2007	2.65 A	1.96 A	2.28 A	1,060 A	-981 A	94 A
6/16/2007	2.14 A	1.16 A	1.87 A	1,140 A	-531 A	168 A
6/17/2007	1.98 A	0.85 A	1.40 A	850 A	-578 A	32 A
6/18/2007	1.81 A	1.00 A	1.38 A	696 A	-475 A	36 A
6/19/2007	1.63 A	0.76 A	1.23 A	432 A	-407 A	32 A
6/20/2007	2.09 A	0.62 A	1.04 A	528 A	-983 A	-92 A
6/21/2007	2.14 A	1.38 A	1.70 A	1,080 A	-873 A	76 A
6/22/2007	1.81 A	0.47 A	1.13 A	641 A	-528 A	45 A
6/23/2007	2.26 A	1.28 A	1.75 A	1,100 A	-1,020 A	-24 A
6/24/2007	1.84 A	1.14 A	1.62 A	576 A	-437 A	60 A
6/25/2007	1.64 A	0.99 A	1.28 A	639 A	-281 A	31 A
6/26/2007	1.37 A	0.74 A	1.10 A	549 A	-160 A	56 A
6/27/2007	1.38 A	0.35 A	0.98 A	626 A	-158 A	138 A
6/28/2007	0.95 A	-0.23 A	0.50 A	656 A	-271 A	101 A
6/29/2007	0.68 A	-0.27 A	0.10 A	523 A	-611 A	-5.5 A
6/30/2007	0.74 A	-0.04 A	0.36 A	919 A	-494 A	90 A
7/1/2007	1.04 A	-0.03 A	0.56 A	477 A	-493 A	-71 A
7/2/2007	1.70 A	0.39 A	1.05 A	829 A	-206 A	375 A
7/3/2007	1.19 A	-0.64 A	0.40 A	597 A	-201 A	115 A
7/4/2007	1.20 A	0.35 A	0.88 A	423 A	-187 A	109 A
7/5/2007	1.21 A	0.04 A	0.58 A	407 A	-232 A	113 A
7/6/2007	0.81 A	0.10 A	0.41 A	412 A	-317 A	20 A
7/7/2007	1.20 A	0.14 A	0.65 A	810 A	-818 A	-8.8 A
7/8/2007	0.87 A	-0.24 A	0.46 A	443 A	-404 A	60 A
7/9/2007	1.14 A	0.09 A	0.61 A	602 A	-346 A	33 A
7/10/2007	1.09 A	0.14 A	0.64 A	896 A	-813 A	63 A
7/11/2007	0.61 A	-0.17 A	0.24 A	590 A	-487 A	116 A
7/12/2007	1.13 A	-0.17 A	0.62 A	630 A	-586 A	-14 A
7/13/2007	1.11 A	-0.03 A	0.68 A	575 A	-399 A	70 A
7/14/2007	1.03 A	0.13 A	0.60 A	569 A	-545 A	45 A
7/15/2007	1.19 A	0.46 A	0.83 A	482 A	-345 A	69 A
7/16/2007	1.11 A	-0.11 A	0.66 A	691 A	-442 A	42 A
7/17/2007	1.11 A	0.09 A	0.59 A	496 A	-418 A	-27 A
7/18/2007	1.19 A	0.65 A	0.91 A	533 A	-438 A	115 A
7/19/2007	1.19 A	-0.06 A	0.71 A	589 A	-3.0 A	246 A
7/20/2007	1.16 A	0.19 A	0.73 A	910 A	-993 A	163 A
7/21/2007	1.25 A	0.93 A	1.08 A	1,000 A	-797 A	28 A
7/22/2007	1.85 A	0.37 A	1.16 A	1,310 A	-860 A	46 A
7/23/2007	1.03 A	0.21 A	0.64 A	1,240 A	-322 A	328 A
7/24/2007	1.74 A	0.65 A	1.12 A	697 A	-414 A	90 A
7/25/2007	1.53 A	0.79 A	1.23 A	420 A	-387 A	70 A
7/26/2007	1.81 A	0.93 A	1.25 A	862 A	-382 A	23 A
7/27/2007	1.47 A	0.45 A	1.13 A	696 A	-382 A	85 A
7/28/2007	1.76 A	0.45 A	0.95 A	474 A	-1,060 A	-5.4 A
7/29/2007	1.56 A	0.65 A	1.14 A	658 A	-675 A	24 A
7/30/2007	2.02 A	0.74 A	1.34 A	995 A	-906 A	-14 A
7/31/2007	2.26 A	1.24 A	1.84 A	662 A	-662 A	-111 A
8/1/2007	2.11 A	1.44 A	1.74 A	1,090 A	-503 A	96 A
8/2/2007	2.05 A	1.22 A	1.61 A	1,010 A	-538 A	155 A
8/3/2007	1.69 A	1.11 A	1.36 A	618 A	-331 A	27 A
8/4/2007	1.70 A	0.71 A	1.15 A	529 A	-472 A	22 A
8/5/2007	1.43 A	0.61 A	1.09 A	496 A	-223 A	35 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
8/6/2007	1.49 A	0.25 A	0.97 A	824 A	-505 A	8.5 A
8/7/2007	1.22 A	0.70 A	0.95 A	341 A	-246 A	36 A
8/8/2007	1.18 A	0.33 A	0.69 A	510 A	-364 A	69 A
8/9/2007	0.97 A	0.30 A	0.67 A	375 A	-337 A	-1.0 A
8/10/2007	1.35 A	-0.36 A	0.56 A	731 A	-917 A	-29 A
8/11/2007	2.11 A	0.58 A	1.52 A	508 A	-830 A	-138 A
8/12/2007	2.00 A	1.28 A	1.67 A	712 A	-588 A	89 A
8/13/2007	1.71 A	1.04 A	1.41 A	631 A	-390 A	43 A
8/14/2007	2.05 A	1.04 A	1.45 A	243 A	-542 A	-106 A
8/15/2007	2.12 A	0.84 A	1.56 A	818 A	-505 A	136 A
8/16/2007	1.20 A	0.15 A	0.89 A	531 A	-246 A	91 A
8/17/2007	1.28 A	-0.06 A	0.45 A	799 A	-523 A	4.5 A
8/18/2007	1.89 A	0.13 A	1.10 A	554 A	-726 A	-74 A
8/19/2007	1.84 A	0.66 A	1.24 A	520 A	-472 A	67 A
8/20/2007	1.31 A	0.34 A	0.62 A	547 A	-515 A	18 A
8/21/2007	1.50 A	0.00 A	0.58 A	738 A	-553 A	30 A
8/22/2007	1.87 A	0.00 A	1.13 A	652 A	-839 A	-135 A
8/23/2007	2.12 A	1.23 A	1.71 A	904 A	-786 A	-90 A
8/24/2007	2.14 A	1.13 A	1.49 A	903 A	-382 A	146 A
8/25/2007	1.70 A	0.57 A	1.19 A	781 A	-356 A	62 A
8/26/2007	1.54 A	0.62 A	1.07 A	520 A	-388 A	24 A
8/27/2007	1.75 A	0.68 A	1.38 A	517 A	-585 A	-49 A
8/28/2007	2.20 A	1.22 A	1.88 A	829 A	-1,040 A	-166 A
8/29/2007	2.06 A	1.58 A	1.83 A	956 A	-437 A	48 A
8/30/2007	2.07 A	1.45 A	1.78 A	876 A	-337 A	34 A
8/31/2007	2.05 A	1.36 A	1.77 A	670 A	-334 A	-4.5 A
9/1/2007	2.52 A	1.35 A	1.89 A	1,080 A	-972 A	-142 A
9/2/2007	2.61 A	2.10 A	2.46 A	981 A	-918 A	-112 A
9/3/2007	2.47 A	1.58 A	1.92 A	1,110 A	-298 A	338 A
9/4/2007	2.01 A	1.27 A	1.69 A	791 A	-468 A	-8.4 A
9/5/2007	1.98 A	1.05 A	1.57 A	821 A	-487 A	1.1 A
9/6/2007	2.03 A	1.27 A	1.69 A	758 A	-594 A	24 A
9/7/2007	1.83 A	1.31 A	1.60 A	758 A	-455 A	27 A
9/8/2007	2.13 A	1.16 A	1.70 A	539 A	-367 A	-45 A
9/9/2007	2.15 A	-0.16 A	1.42 A	994 A	-479 A	280 A
9/10/2007	1.74 A	-0.70 A	0.78 A	815 A	-596 A	-16 A
9/11/2007	1.24 A	-0.04 A	0.79 A	617 A	-537 A	108 A
9/12/2007	2.09 A	-0.14 A	1.17 A	1,100 A	-607 A	-88 A
9/13/2007	2.40 A	1.22 A	1.99 A	892 A	-786 A	-88 A
9/14/2007	2.18 A	0.79 A	1.84 A	920 A	-605 A	177 A
9/15/2007	2.25 A	0.27 A	1.30 A	518 A	-751 A	-162 A
9/16/2007	2.46 A	1.91 A	2.19 A	984 A	-719 A	-18 A
9/17/2007	2.69 A	1.70 A	2.18 A	891 A	-937 A	-96 A
9/18/2007	2.71 A	1.95 A	2.34 A	1,300 A	-783 A	17 A
9/19/2007	2.76 A	2.15 A	2.47 A	1,050 A	-841 A	-53 A
9/20/2007	2.67 A	1.90 A	2.17 A	1,030 A	-576 A	413 A
9/21/2007	2.33 A	1.53 A	1.98 A	1,140 A	-751 A	71 A
9/22/2007	2.14 A	1.21 A	1.64 A	1,080 A	-744 A	126 A
9/23/2007	2.15 A	1.17 A	1.59 A	746 A	-809 A	-44 A
9/24/2007	2.36 A	1.58 A	2.02 A	1,150 A	-853 A	15 A
9/25/2007	2.04 A	1.19 A	1.66 A	787 A	-214 A	126 A
9/26/2007	1.96 A	1.10 A	1.58 A	840 A	-457 A	38 A
9/27/2007	2.04 A	0.99 A	1.56 A	858 A	-661 A	9.5 A
9/28/2007	1.95 A	0.87 A	1.33 A	550 A	-466 A	-65 A
9/29/2007	2.58 A	1.66 A	2.02 A	1,000 A	-1,110 A	-226 A
9/30/2007	2.85 A	2.11 A	2.51 A	1,070 A	-994 A	-223 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
10/1/2007	2.80 A	2.49 A	2.61 A	758 A	-468 A	133 A
10/2/2007	2.49 A	1.90 A	2.13 A	1,340 A	-468 A	221 A
10/3/2007	2.39 A	1.60 A	1.95 A	1,210 A	-565 A	132 A
10/4/2007	2.22 A	1.28 A	1.90 A	593 A	-495 A	-55 A
10/5/2007	2.11 A	1.65 A	1.94 A	577 A	-502 A	64 A
10/6/2007	2.08 A	1.42 A	1.79 A	891 A	-624 A	75 A
10/7/2007	1.97 A	1.29 A	1.66 A	776 A	-467 A	26 A
10/8/2007	1.87 A	1.14 A	1.51 A	508 A	-442 A	8.5 A
10/9/2007	1.75 A	0.93 A	1.38 A	503 A	-390 A	63 A
10/10/2007	2.01 A	0.54 A	1.24 A	959 A	-710 A	19 A
10/11/2007	1.70 A	0.71 A	1.28 A	578 A	-582 A	45 A
10/12/2007	2.05 A	0.98 A	1.63 A	530 A	-746 A	-39 A
10/13/2007	1.86 A	1.39 A	1.55 A	540 A	-394 A	35 A
10/14/2007	2.05 A	1.45 A	1.72 A	729 A	-441 A	-63 A
10/15/2007	2.25 A	1.68 A	2.00 A	935 A	-594 A	-34 A
10/16/2007	2.01 A	1.40 A	1.78 A	935 A	-470 A	124 A
10/17/2007	1.85 A	1.30 A	1.65 A	687 A	-474 A	-62 A
10/18/2007	1.78 A	1.32 A	1.53 A	761 A	-430 A	41 A
10/19/2007	1.66 A	0.66 A	1.25 A	1,110 A	-435 A	111 A
10/20/2007	1.65 A	0.74 A	1.15 A	578 A	-449 A	-70 A
10/21/2007	1.74 A	1.44 A	1.58 A	567 A	-352 A	6.1 A
10/22/2007	1.73 A	1.09 A	1.40 A	790 A	-450 A	-5.4 A
10/23/2007	1.65 A	0.79 A	1.24 A	694 A	-397 A	9.9 A
10/24/2007	1.59 A	0.76 A	1.18 A	1,030 A	-742 A	-10 A
10/25/2007	2.27 A	0.57 A	1.58 A	1,040 A	-748 A	3.0 A
10/26/2007	2.18 A	1.51 A	1.86 A	1,150 A	-505 A	106 A
10/27/2007	2.01 A	1.23 A	1.72 A	1,030 A	-642 A	214 A
10/28/2007	2.85 A	1.68 A	2.30 A	372 A	-612 A	-270 A
10/29/2007	2.90 A	2.50 A	2.68 A	873 A	-448 A	194 A
10/30/2007	2.70 A	2.14 A	2.28 A	1,010 A	-366 A	365 A
10/31/2007	2.28 A	2.03 A	2.15 A	567 A	-364 A	71 A
11/1/2007	2.10 A	1.56 A	1.78 A	694 A	-439 A	77 A
11/2/2007	3.31 A	1.98 A	2.70 A	1,090 A	-1,270 A	-616 A
11/3/2007	3.09 A	1.52 A	2.22 A	1,450 A	-653 A	617 A
11/4/2007	2.42 A	1.94 A	2.18 A	832 A	-678 A	103 A
11/5/2007	2.20 A	1.62 A	1.89 A	689 A	-409 A	84 A
11/6/2007	1.83 A	0.66 A	1.33 A	533 A	-728 A	26 A
11/7/2007	2.11 A	1.25 A	1.67 A	713 A	-638 A	1.2 A
11/8/2007	2.15 A	1.51 A	1.81 A	775 A	-597 A	-0.90 A
11/9/2007	1.87 A	1.16 A	1.53 A	465 A	-286 A	66 A
11/10/2007	1.72 A	0.39 A	1.21 A	554 A	-832 A	-21 A
11/11/2007	1.95 A	0.98 A	1.49 A	847 A	-735 A	9.1 A
11/12/2007	1.67 A	0.94 A	1.34 A	891 A	-268 A	82 A
11/13/2007	1.46 A	0.50 A	0.97 A	735 A	-366 A	95 A
11/14/2007	1.50 A	0.84 A	1.17 A	803 A	-352 A	73 A
11/15/2007	1.72 A	-0.86 A	0.57 A	1,160 A	-1,020 A	42 A
11/16/2007	1.36 A	-0.22 A	0.61 A	834 A	-678 A	106 A
11/17/2007	1.48 A	0.89 A	1.16 A	478 A	-342 A	-39 A
11/18/2007	1.11 A	0.66 A	0.90 A	212 A	-415 A	-60 A
11/19/2007	1.49 A	0.76 A	0.99 A	370 A	-562 A	-63 A
11/20/2007	1.56 A	0.71 A	1.10 A	643 A	-393 A	28 A
11/21/2007	1.18 A	0.80 A	0.99 A	387 A	-389 A	-12 A
11/22/2007	1.16 A	0.56 A	0.83 A	687 A	-418 A	57 A
11/23/2007	2.27 A	0.59 A	1.47 A	1,180 A	-982 A	-56 A
11/24/2007	2.27 A	1.32 A	1.90 A	1,000 A	-707 A	81 A
11/25/2007	1.97 A	1.03 A	1.55 A	660 A	-320 A	59 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
11/26/2007	1.41 A	0.92 A	1.13 A	549 A	-512 A	0
11/27/2007	1.43 A	0.40 A	0.89 A	483 A	-622 A	-17 A
11/28/2007	2.19 A	0.89 A	1.55 A	993 A	-577 A	-63 A
11/29/2007	1.51 A	0.63 A	0.97 A	867 A	-509 A	66 A
11/30/2007	1.71 A	0.47 A	1.13 A	672 A	-653 A	49 A
12/1/2007	1.94 A	0.65 A	1.20 A	295 A	-628 A	-114 A
12/2/2007	2.00 A	0.57 A	1.18 A	1,180 A	-581 A	143 A
12/3/2007	0.74 A	-1.04 A	-0.11 A	751 A	-662 A	123 A
12/4/2007	0.38 A	-0.30 A	0.07 A	520 A	-426 A	-21 A
12/5/2007	1.27 A	-0.03 A	0.68 A	788 A	-547 A	-26 A
12/6/2007	1.81 A	0.18 A	1.13 A	698 A	-786 A	-53 A
12/7/2007	1.39 A	0.72 A	0.97 A	507 A	-284 A	42 A
12/8/2007	0.98 A	0.63 A	0.83 A	237 A	-327 A	-14 A
12/9/2007	1.41 A	0.51 A	0.93 A	825 A	-632 A	21 A
12/10/2007	0.85 A	0.48 A	0.67 A	408 A	-231 A	-1.8 A
12/11/2007	1.69 A	0.46 A	0.81 A	913 A	-740 A	64 A
12/12/2007	1.01 A	0.09 A	0.58 A	656 A	-575 A	-1.6 A
12/13/2007	1.54 A	0.28 A	0.78 A	1,040 A	-619 A	34 A
12/14/2007	1.53 A	0.14 A	0.92 A	583 A	-613 A	-118 A
12/15/2007	2.34 A	1.26 A	1.96 A	1,190 A	-740 A	-72 A
12/16/2007	1.98 A	-1.01 A	0.29 A	1,470 A	-565 A	390 A
12/17/2007	1.38 A	-0.56 A	0.38 A	729 A	-336 A	116 A
12/18/2007	1.48 A	0.71 A	1.03 A	819 A	-218 A	158 A
12/19/2007	1.18 A	0.62 A	0.84 A	619 A	-195 A	110 A
12/20/2007	1.16 A	0.66 A	0.93 A	381 A	-309 A	30 A
12/21/2007	1.98 A	1.10 A	1.73 A	924 A	-822 A	-26 A
12/22/2007	2.00 A	1.39 A	1.68 A	1,060 A	-541 A	117 A
12/23/2007	1.72 A	0.70 A	1.32 A	924 A	-433 A	133 A
12/24/2007	1.60 A	0.70 A	1.18 A	739 A	-439 A	-5.0 A
12/25/2007	2.21 A	1.13 A	1.56 A	348 A	-658 A	-114 A
12/26/2007	2.55 A	0.30 A	1.70 A	2,140 A	-894 A	304 A
12/27/2007	1.80 A	1.23 A	1.53 A	916 A	-350 A	124 A
12/28/2007	1.79 A	1.20 A	1.57 A	705 A	-83 A	103 A
12/29/2007	1.58 A	0.97 A	1.29 A	735 A	-366 A	173 A
12/30/2007	2.11 A	1.17 A	1.62 A	1,240 A	-613 A	102 A
12/31/2007	1.94 A	1.15 A	1.51 A	718 A	-410 A	57 A
1/1/2008	1.71 A	0.10 A	1.03 A	541 A	-477 A	194 A
1/2/2008	1.06 A	-0.69 A	0.34 A	640 A	-552 A	132 A
1/3/2008	1.60 A	-0.21 A	0.99 A	481 A	-595 A	-1.5 A
1/4/2008	1.47 A	0.54 A	1.03 A	338 A	-247 A	69 A
1/5/2008	0.81 A	0.45 A	0.68 A	307 A	-60 A	51 A
1/6/2008	0.83 A	0.45 A	0.62 A	222 A	-108 A	36 A
1/7/2008	0.81 A	0.33 A	0.60 A	277 A	-183 A	39 A
1/8/2008	0.84 A	0.37 A	0.60 A	237 A	-210 A	29 A
1/9/2008	0.68 A	0.24 A	0.44 A	189 A	-152 A	27 A
1/10/2008	1.33 A	0.48 A	0.80 A	504 A	-502 A	29 A
1/11/2008	0.86 A	0.22 A	0.56 A	364 A	-469 A	32 A
1/12/2008	1.72 A	0.36 A	1.02 A	452 A	-666 A	-49 A
1/13/2008	1.79 A	0.60 A	1.24 A	490 A	-364 A	57 A
1/14/2008	1.23 A	0.52 A	0.85 A	399 A	-223 A	49 A
1/15/2008	1.49 A	0.05 A	0.77 A	344 A	-571 A	2.6 A
1/16/2008	1.70 A	0.65 A	1.17 A	369 A	-609 A	-7.8 A
1/17/2008	2.26 A	0.50 A	1.42 A	1,510 A	-616 A	82 A
1/18/2008	1.30 A	0.08 A	0.73 A	274 A	-529 A	-13 A
1/19/2008	1.66 A	0.78 A	1.09 A	610 A	-446 A	84 A
1/20/2008	1.76 A	0.22 A	1.01 A	777 A	-442 A	127 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
1/21/2008	2.10 A	1.25 A	1.58 A	1,020 A	-462 A	126 A
1/22/2008	1.86 A	0.65 A	1.16 A	610 A	-336 A	217 A
1/23/2008	1.63 A	0.47 A	0.91 A	620 A	-390 A	85 A
1/24/2008	1.26 A	-0.05 A	0.71 A	429 A	-430 A	84 A
1/25/2008	1.58 A	0.77 A	1.15 A	585 A	-610 A	64 A
1/26/2008	1.17 A	0.83 A	0.97 A	285 A	-138 A	60 A
1/27/2008	1.59 A	0.56 A	0.98 A	297 A	-279 A	16 A
1/28/2008	1.58 A	0.95 A	1.20 A	406 A	-230 A	81 A
1/29/2008	1.22 A	0.48 A	0.99 A	379 A	-303 A	76 A
1/30/2008	1.61 A	-0.49 A	0.73 A	690 A	-641 A	0
1/31/2008	2.37 A	1.17 A	1.76 A	945 A	-847 A	-94 A
2/1/2008	2.24 A	0.29 A	1.33 A	1,350 A	-657 A	300 A
2/2/2008	1.57 A	0.69 A	1.06 A	398 A	-565 A	42 A
2/3/2008	1.18 A	0.59 A	0.89 A	326 A	-100 A	89 A
2/4/2008	1.11 A	0.54 A	0.90 A	383 A	-165 A	58 A
2/5/2008	0.81 A	0.27 A	0.60 A	320 A	-180 A	65 A
2/6/2008	0.86 A	0.03 A	0.36 A	458 A	-404 A	88 A
2/7/2008	1.10 A	-0.60 A	0.21 A	397 A	-515 A	7.0 A
2/8/2008	1.72 A	0.23 A	0.73 A	349 A	-909 A	-24 A
2/9/2008	1.87 A	0.43 A	1.03 A	952 A	-860 A	117 A
2/10/2008	0.72 A	-1.00 A	0.13 A	470 A	-607 A	16 A
2/11/2008	1.77 A	0.18 A	1.09 A	565 A	-863 A	-14 A
2/12/2008	1.59 A	0.70 A	1.21 A	466 A	-440 A	8.7 A
2/13/2008	1.76 A	0.20 A	0.92 A	933 A	-878 A	164 A
2/14/2008	1.39 A	0.27 A	0.95 A	669 A	-495 A	218 A
2/15/2008	1.28 A	0.36 A	0.83 A	761 A	81 A	428 A
2/16/2008	2.29 A	0.45 A	1.45 A	896 A	-689 A	216 A
2/17/2008	1.84 A	0.86 A	1.35 A	1,070 A	-3.2 A	330 A
2/18/2008	1.64 A	0.32 A	0.96 A	1,050 A	36 A	525 A
2/19/2008	1.46 A	0.04 A	0.75 A	930 A	-253 A	639 A
2/20/2008	1.50 A	0.09 A	1.01 A	1,230 A	600 A	918 A
2/21/2008	2.19 A	-0.13 A	1.51 A	1,230 A	-159 A	574 A
2/22/2008	1.90 A	0.63 A	1.26 A	1,170 A	206 A	673 A
2/23/2008	1.72 A	0.62 A	1.22 A	796 A	109 A	498 A
2/24/2008	2.11 A	1.68 A	1.96 A	980 A	302 A	631 A
2/25/2008	2.05 A	1.32 A	1.61 A	1,310 A	460 A	773 A
2/26/2008	1.75 A	0.63 A	1.27 A	962 A	67 A	528 A
2/27/2008	1.28 A	0.35 A	0.59 A	710 A	-61 A	370 A
2/28/2008	1.02 A	0.29 A	0.67 A	519 A	-13 A	318 A
2/29/2008	1.22 A	0.64 A	1.03 A	510 A	110 A	301 A
3/1/2008	1.00 A	-0.49 A	0.39 A	540 A	-364 A	205 A
3/2/2008	2.10 A	0.74 A	1.25 A	947 A	-871 A	161 A
3/3/2008	1.29 A	0.49 A	0.96 A	462 A	-110 A	200 A
3/4/2008	1.36 A	0.58 A	0.88 A	517 A	-283 A	142 A
3/5/2008	1.37 A	-0.53 A	0.55 A	735 A	-617 A	193 A
3/6/2008	2.10 A	0.74 A	1.35 A	1,190 A	-478 A	266 A
3/7/2008	2.06 A	0.63 A	1.45 A	1,160 A	114 A	682 A
3/8/2008	1.73 A	-1.63 A	0.36 A	1,050 A	-53 A	670 A
3/9/2008	1.18 A	-1.56 A	0.47 A	979 A	197 A	634 A
3/10/2008	1.74 A	1.01 A	1.32 A	1,020 A	234 A	752 A
3/11/2008	1.52 A	0.87 A	1.14 A	829 A	186 A	540 A
3/12/2008	1.23 A	0.30 A	0.84 A	745 A	108 A	404 A
3/13/2008	1.49 A	0.79 A	1.16 A	584 A	6.7 A	345 A
3/14/2008	1.19 A	0.68 A	1.04 A	419 A	45 A	260 A
3/15/2008	1.97 A	0.46 A	1.09 A	500 A	-305 A	100 A
3/16/2008	2.05 A	0.54 A	1.47 A	749 A	-700 A	242 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
3/17/2008	2.33 A	1.50 A	2.04 A	1,090 A	-790 A	186 A
3/18/2008	2.24 A	1.37 A	1.95 A	1,090 A	-54 A	438 A
3/19/2008	1.54 A	0.03 A	1.08 A	560 A	-401 A	316 A
3/20/2008	1.10 A	-0.36 A	0.49 A	490 A	-409 A	180 A
3/21/2008	1.71 A	0.93 A	1.39 A	704 A	-172 A	204 A
3/22/2008	1.31 A	0.41 A	0.85 A	507 A	-185 A	231 A
3/23/2008	2.39 A	0.57 A	1.86 A	1,340 A	-1,170 A	-67 A
3/24/2008	2.24 A	1.60 A	1.91 A	573 A	-391 A	131 A
3/25/2008	2.23 A	1.13 A	1.64 A	1,050 A	-273 A	276 A
3/26/2008	1.18 A	-0.02 A	0.53 A	658 A	-725 A	195 A
3/27/2008	0.96 A	-0.10 A	0.41 A	551 A	-460 A	105 A
3/28/2008	0.56 A	-0.46 A	0.14 A	466 A	-263 A	115 A
3/29/2008	2.33 A	-0.21 A	1.55 A	798 A	-1,020 A	-71 A
3/30/2008	3.13 A	1.69 A	2.39 A	338 A	-1,410 A	-497 A
3/31/2008	3.15 A	0.92 A	1.96 A	1,950 A	-1,020 A	724 A
4/1/2008	1.13 A	0.07 A	0.69 A	612 A	-413 A	155 A
4/2/2008	2.42 A	0.42 A	1.27 A	1,100 A	-1,060 A	-60 A
4/3/2008	2.66 A	1.17 A	2.14 A	1,730 A	-890 A	122 A
4/4/2008	1.30 A	0.55 A	0.86 A	570 A	-176 A	184 A
4/5/2008	1.57 A	0.24 A	0.90 A	608 A	-512 A	166 A
4/6/2008	2.07 A	0.98 A	1.47 A	998 A	46 A	558 A
4/7/2008	2.82 A	2.07 A	2.43 A	1,760 A	-76 A	1,140 A
4/8/2008	2.95 A	2.80 A	2.87 A	2,130 A	1,170 A	1,800 A
4/9/2008	2.99 A	2.79 A	2.90 A	2,160 A	1,380 A	1,780 A
4/10/2008	2.82 A	2.49 A	2.67 A	1,680 A	1,070 A	1,360 A
4/11/2008	2.49 A	1.79 A	2.20 A	1,420 A	791 A	1,110 A
4/12/2008	1.80 A	1.06 A	1.40 A	1,030 A	331 A	654 A
4/13/2008	2.17 A	1.11 A	1.54 A	1,080 A	-317 A	347 A
4/14/2008	2.52 A	1.21 A	1.97 A	705 A	-1,150 A	51 A
4/15/2008	3.33 A	2.37 A	2.69 A	676 A	-1,470 A	-321 A
4/16/2008	3.35 A	2.52 A	2.90 A	1,310 A	-1,130 A	308 A
4/17/2008	2.97 A	1.70 A	2.16 A	1,430 A	99 A	725 A
4/18/2008	1.70 A	1.12 A	1.47 A	651 A	-43 A	188 A
4/19/2008	1.86 A	1.04 A	1.29 A	767 A	-352 A	119 A
4/20/2008	2.19 A	1.19 A	1.73 A	1,090 A	-649 A	40 A
4/21/2008	2.50 A	1.24 A	1.77 A	665 A	-1,090 A	-61 A
4/22/2008	2.92 A	2.11 A	2.57 A	1,010 A	-965 A	92 A
4/23/2008	2.61 A	2.34 A	2.46 A	918 A	-455 A	381 A
4/24/2008	2.44 A	1.79 A	2.06 A	915 A	-34 A	491 A
4/25/2008	1.82 A	1.31 A	1.61 A	555 A	-13 A	272 A
4/26/2008	1.66 A	0.78 A	1.26 A	771 A	-252 A	194 A
4/27/2008	1.90 A	0.61 A	1.40 A	721 A	-439 A	129 A
4/28/2008	1.80 A	0.65 A	1.30 A	826 A	128 A	425 A
4/29/2008	1.75 A	0.90 A	1.24 A	733 A	-13 A	372 A
4/30/2008	2.20 A	1.21 A	1.71 A	1,060 A	-535 A	344 A
5/1/2008	2.43 A	1.07 A	1.87 A	1,100 A	-636 A	419 A
5/2/2008	1.48 A	0.75 A	1.20 A	500 A	26 A	249 A
5/3/2008	1.66 A	0.71 A	1.10 A	698 A	-272 A	167 A
5/4/2008	1.85 A	0.85 A	1.35 A	868 A	-564 A	129 A
5/5/2008	2.51 A	1.01 A	1.99 A	625 A	-1,080 A	-114 A
5/6/2008	2.44 A	1.93 A	2.20 A	952 A	-368 A	342 A
5/7/2008	1.94 A	0.93 A	1.68 A	872 A	-144 A	442 A
5/8/2008	1.53 A	0.81 A	1.13 A	487 A	-220 A	201 A
5/9/2008	1.57 A	-0.23 A	0.69 A	602 A	-466 A	203 A
5/10/2008	2.52 A	0.92 A	1.66 A	666 A	-1,300 A	-14 A
5/11/2008	2.67 A	1.81 A	2.45 A	1,380 A	-1,240 A	205 A

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
5/12/2008	1.90 A	-1.46 A	0.44 A	1,470 A	-1,080 A	243 A
5/13/2008	2.96 A	1.46 A	2.08 A	433 A	-1,240 A	-337 A
5/14/2008	3.00 A	1.47 A	2.29 A	1,430 A	-1,110 A	548 A
5/15/2008	1.68 A	1.29 A	1.52 A	413 A	-203 A	87 A
5/16/2008	1.90 A	0.58 A	1.34 A	779 A	-621 A	121 A
5/17/2008	2.14 A	0.55 A	1.56 A	903 A	-824 A	71 A
5/18/2008	1.29 A	-0.47 A	0.75 A	658 A	-341 A	161 A
5/19/2008	1.59 A	-0.16 A	1.14 A	688 A	-955 A	-75 A
5/20/2008	2.03 A	-0.10 A	1.10 A	658 A	-1,050 A	63 A
5/21/2008	2.16 A	1.29 A	1.77 A	875 A	-1,020 A	49 A
5/22/2008	2.13 A	1.18 A	1.55 A	1,120 A	-586 A	111 A
5/23/2008	2.43 A	1.44 A	1.89 A	1,300 A	-963 A	53 A
5/24/2008	2.11 A	1.33 A	1.71 A	909 A	-905 A	44 A
5/25/2008	2.33 A	1.25 A	1.72 A	1,310 A	-891 A	70 A
5/26/2008	1.63 A	0.51 A	1.30 A	568 A	-43 A	147 A
5/27/2008	1.08 A	0.31 A	0.82 A	426 A	-251 A	59 A
5/28/2008	2.36 A	0.20 A	0.99 A	1,140 A	-1,020 A	-141 A
5/29/2008	2.04 A	1.23 A	1.69 A	1,200 A	-358 A	219 A
5/30/2008	1.56 A	0.71 A	1.22 A	497 A	-261 A	120 A
5/31/2008	1.32 A	-0.24 A	0.77 A	703 A	-344 A	100 A
6/1/2008	1.22 A	-0.24 A	0.48 A	419 A	-557 A	-7.9 A
6/2/2008	1.88 A	0.40 A	1.21 A	464 A	-706 A	-103 A
6/3/2008	1.84 A	0.70 A	1.29 A	613 A	-219 A	154 A
6/4/2008	1.14 A	-0.19 A	0.64 A	741 A	-351 A	93 A
6/5/2008	1.25 A	-0.37 A	0.50 A	374 A	-457 A	-36 A
6/6/2008	1.40 A	0.64 A	0.96 A	451 A	-407 A	0.5
6/7/2008	1.39 A	0.62 A	1.00 A	464 A	-375 A	1.9 A
6/8/2008	1.19 A	0.41 A	0.86 A	565 A	-210 A	65 A
6/9/2008	1.38 A	0.57 A	0.84 A	450 A	-386 A	47 A
6/10/2008	1.06 A	0.42 A	0.68 A	538 A	-263 A	100 A
6/11/2008	1.87 A	-0.05 A	0.96 A	434 A	-436 A	-60 A
6/12/2008	1.90 A	0.78 A	1.46 A	450 A	-513 A	32 A
6/13/2008	1.85 A	0.83 A	1.36 A	614 A	-489 A	78 A
6/14/2008	1.28 A	0.51 A	1.00 A	485 A	-176 A	70 A
6/15/2008	1.25 A	0.40 A	0.69 A	488 A	-276 A	19 A
6/16/2008	1.33 A	0.01 A	0.68 A	627 A	-391 A	42 A
6/17/2008	1.37 A	-0.07 A	0.68 A	397 A	-760 A	-72 A
6/18/2008	2.17 A	0.73 A	1.45 A	974 A	-1,040 A	-103 A
6/19/2008	1.85 A	0.66 A	1.16 A	548 A	-314 A	96 A
6/20/2008	1.57 A	0.43 A	1.09 A	747 A	-951 A	32 A
6/21/2008	1.56 A	0.38 A	1.14 A	573 A	-853 A	17 A
6/22/2008	1.70 A	0.34 A	1.05 A	524 A	-540 A	30 A
6/23/2008	1.33 A	0.52 A	0.93 A	624 A	-516 A	18 A
6/24/2008	1.56 A	0.43 A	1.05 A	568 A	-542 A	-18 A
6/25/2008	1.31 A	0.58 A	1.07 A	508 A	-411 A	58 A
6/26/2008	1.12 A	-0.41 A	0.52 A	657 A	-338 A	60 A
6/27/2008	0.99 A	-0.42 A	0.37 A	484 A	-316 A	-12 A
6/28/2008	0.97 A	-0.26 A	0.41 A	565 A	-457 A	32 A
6/29/2008	0.65 A	-0.75 A	0.02 A	576 A	-443 A	38 A
6/30/2008	0.79 A	-1.05 A	-0.15 A	402 A	-607 A	-15 A
7/1/2008	1.00 A	-0.70 A	0.42 A	P	P	P
7/2/2008	1.30 A	0.31 A	0.94 A	P	P	P
7/3/2008	1.15 A	0.24 A	0.80 A	P	P	P
7/4/2008	1.30 A	-0.30 A	0.60 A	P	P	P
7/5/2008	1.13 A	-0.39 A	0.62 A	P	P	P
7/6/2008	1.91 A	0.17 A	0.85 A	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
7/7/2008	1.04 A	0.38 A	0.71 A	P	P	P
7/8/2008	0.96 A	-0.06 A	0.74 A	P	P	P
7/9/2008	1.00 A	-0.26 A	0.48 A	P	P	P
7/10/2008	1.73 A	-0.29 A	0.61 A	P	P	P
7/11/2008	1.91 A	0.52 A	1.12 A	P	P	P
7/12/2008	2.02 A	1.11 A	1.68 A	P	P	P
7/13/2008	1.91 A	0.74 A	1.28 A	P	P	P
7/14/2008	1.57 A	0.64 A	0.99 A	P	P	P
7/15/2008	2.09 A	0.60 A	1.36 A	P	P	P
7/16/2008	2.26 A	1.28 A	1.73 A	P	P	P
7/17/2008	2.27 A	1.31 A	1.80 A	P	P	P
7/18/2008	1.73 A	0.98 A	1.48 A	P	P	P
7/19/2008	1.76 A	1.02 A	1.33 A	P	P	P
7/20/2008	1.89 A	1.24 A	1.55 A	P	P	P
7/21/2008	1.50 A	0.67 A	1.13 A	P	P	P
7/22/2008	1.44 A	0.72 A	1.15 A	P	P	P
7/23/2008	1.40 A	0.32 A	0.87 A	P	P	P
7/24/2008	1.40 A	0.23 A	0.97 A	P	P	P
7/25/2008	1.96 A	0.94 A	1.49 A	P	P	P
7/26/2008	1.75 A	1.09 A	1.39 A	P	P	P
7/27/2008	1.38 A	0.20 A	0.93 A	P	P	P
7/28/2008	1.37 A	0.38 A	0.95 A	P	P	P
7/29/2008	1.32 A	0.27 A	0.98 A	P	P	P
7/30/2008	1.15 A	0.24 A	0.75 A	P	P	P
7/31/2008	1.50 A	0.08 A	0.76 A	P	P	P
8/1/2008	1.71 A	0.36 A	1.19 A	P	P	P
8/2/2008	1.35 A	0.34 A	1.07 A	P	P	P
8/3/2008	1.81 A	0.34 A	1.29 A	P	P	P
8/4/2008	1.96 A	1.18 A	1.68 A	P	P	P
8/5/2008	1.77 A	0.98 A	1.29 A	P	P	P
8/6/2008	1.89 A	0.67 A	1.29 A	P	P	P
8/7/2008	1.62 A	1.10 A	1.31 A	P	P	P
8/8/2008	2.04 A	-0.37 A	1.24 A	P	P	P
8/9/2008	2.09 A	1.36 A	1.73 A	P	P	P
8/10/2008	1.59 A	0.91 A	1.23 A	P	P	P
8/11/2008	1.70 A	0.32 A	1.15 A	P	P	P
8/12/2008	1.68 A	1.23 A	1.51 A	P	P	P
8/13/2008	P	P	P	P	P	P
8/14/2008	P	P	P	P	P	P
8/15/2008	1.96 A	1.03 A	1.47 A	P	P	P
8/16/2008	1.59 A	1.04 A	1.35 A	P	P	P
8/17/2008	1.94 A	1.12 A	1.57 A	P	P	P
8/18/2008	1.97 A	1.06 A	1.56 A	P	P	P
8/19/2008	1.84 A	1.11 A	1.49 A	P	P	P
8/20/2008	2.00 A	1.05 A	1.57 A	P	P	P
8/21/2008	2.33 A	1.55 A	2.01 A	P	P	P
8/22/2008	2.14 A	1.67 A	1.95 A	P	P	P
8/23/2008	1.97 A	1.46 A	1.70 A	P	P	P
8/24/2008	1.88 A	1.01 A	1.47 A	P	P	P
8/25/2008	1.56 A	0.76 A	1.13 A	P	P	P
8/26/2008	1.81 A	0.78 A	1.22 A	P	P	P
8/27/2008	2.01 A	1.39 A	1.64 A	P	P	P
8/28/2008	1.82 A	1.14 A	1.51 A	P	P	P
8/29/2008	1.81 A	1.01 A	1.43 A	P	P	P
8/30/2008	1.96 A	1.16 A	1.56 A	P	P	P
8/31/2008	2.55 A	1.17 A	1.90 A	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
9/1/2008	2.51 A	2.13 A	2.25 A	P	P	P
9/2/2008	2.17 A	1.50 A	1.78 A	P	P	P
9/3/2008	1.80 A	1.15 A	1.48 A	P	P	P
9/4/2008	2.05 A	0.86 A	1.50 A	P	P	P
9/5/2008	2.58 A	1.73 A	2.14 A	P	P	P
9/6/2008	3.17 A	0.72 A	2.21 A	P	P	P
9/7/2008	1.87 A	1.05 A	1.48 A	P	P	P
9/8/2008	2.17 A	1.27 A	1.69 A	P	P	P
9/9/2008	1.58 A	0.80 A	1.28 A	P	P	P
9/10/2008	2.15 A	0.99 A	1.52 A	P	P	P
9/11/2008	1.98 A	1.43 A	1.65 A	P	P	P
9/12/2008	2.03 A	1.15 A	1.61 A	P	P	P
9/13/2008	1.49 A	0.89 A	1.24 A	P	P	P
9/14/2008	1.47 A	0.68 A	1.19 A	P	P	P
9/15/2008	1.72 A	0.65 A	1.07 A	P	P	P
9/16/2008	2.37 A	1.51 A	2.03 A	P	P	P
9/17/2008	2.37 A	2.17 A	2.27 A	P	P	P
9/18/2008	2.55 A	1.77 A	2.11 A	P	P	P
9/19/2008	3.11 A	2.37 A	2.75 A	P	P	P
9/20/2008	2.93 A	2.42 A	2.67 A	P	P	P
9/21/2008	2.63 A	2.26 A	2.41 A	P	P	P
9/22/2008	2.55 A	2.06 A	2.26 A	P	P	P
9/23/2008	3.21 A	2.41 A	2.73 A	P	P	P
9/24/2008	3.71 A	2.95 A	3.31 A	P	P	P
9/25/2008	4.17 A	3.50 A	3.81 A	P	P	P
9/26/2008	3.66 A	2.70 A	3.16 A	P	P	P
9/27/2008	2.84 A	2.25 A	2.55 A	P	P	P
9/28/2008	2.25 A	1.98 A	2.12 A	P	P	P
9/29/2008	2.42 A	1.93 A	2.18 A	P	P	P
9/30/2008	2.46 A	2.01 A	2.25 A	P	P	P
10/1/2008	2.48 A	1.68 A	2.01 A	P	P	P
10/2/2008	2.26 A	1.65 A	2.01 A	P	P	P
10/3/2008	2.13 A	1.87 A	2.01 A	P	P	P
10/4/2008	2.02 A	1.69 A	1.84 A	P	P	P
10/5/2008	1.95 A	1.56 A	1.72 A	P	P	P
10/6/2008	1.78 A	1.40 A	1.59 A	P	P	P
10/7/2008	2.41 A	1.71 A	2.18 A	P	P	P
10/8/2008	2.22 A	1.15 A	1.70 A	P	P	P
10/9/2008	1.51 A	1.16 A	1.37 A	P	P	P
10/10/2008	2.31 A	1.05 A	1.81 A	P	P	P
10/11/2008	2.40 A	1.75 A	2.21 A	P	P	P
10/12/2008	2.61 A	2.14 A	2.47 A	P	P	P
10/13/2008	2.50 A	1.48 A	1.96 A	P	P	P
10/14/2008	1.84 A	1.20 A	1.50 A	P	P	P
10/15/2008	1.84 A	1.02 A	1.38 A	P	P	P
10/16/2008	1.59 A	1.11 A	1.39 A	P	P	P
10/17/2008	2.50 A	0.89 A	1.79 A	P	P	P
10/18/2008	2.31 A	1.78 A	2.10 A	P	P	P
10/19/2008	2.90 A	2.03 A	2.49 A	P	P	P
10/20/2008	2.88 A	2.13 A	2.40 A	P	P	P
10/21/2008	2.45 A	1.20 A	1.77 A	P	P	P
10/22/2008	2.48 A	1.70 A	2.09 A	P	P	P
10/23/2008	2.84 A	2.20 A	2.46 A	P	P	P
10/24/2008	3.03 A	2.31 A	2.79 A	P	P	P
10/25/2008	2.70 A	1.92 A	2.43 A	P	P	P
10/26/2008	2.46 A	1.89 A	2.19 A	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
10/27/2008	2.21 A	0.65 A	1.89 A	P	P	P
10/28/2008	2.10 A	0.55 A	1.30 A	P	P	P
10/29/2008	1.55 A	0.58 A	0.99 A	P	P	P
10/30/2008	1.81 A	1.15 A	1.53 A	P	P	P
10/31/2008	1.65 A	1.12 A	1.43 A	P	P	P
11/1/2008	1.35 A	1.02 A	1.14 A	P	P	P
11/2/2008	1.58 A	0.94 A	1.24 A	P	P	P
11/3/2008	1.99 A	1.26 A	1.62 A	P	P	P
11/4/2008	3.11 A	1.99 A	2.66 A	P	P	P
11/5/2008	2.90 A	1.32 A	2.37 A	P	P	P
11/6/2008	2.30 A	1.21 A	1.77 A	P	P	P
11/7/2008	2.28 A	1.68 A	1.92 A	P	P	P
11/8/2008	1.80 A	0.89 A	1.49 A	P	P	P
11/9/2008	2.05 A	0.90 A	1.48 A	P	P	P
11/10/2008	1.89 A	1.42 A	1.67 A	P	P	P
11/11/2008	2.41 A	1.37 A	1.87 A	P	P	P
11/12/2008	2.28 A	1.79 A	1.99 A	P	P	P
11/13/2008	2.33 A	1.30 A	1.81 A	P	P	P
11/14/2008	2.02 A	1.32 A	1.61 A	P	P	P
11/15/2008	1.73 A	0.56 A	1.27 A	P	P	P
11/16/2008	1.62 A	0.28 A	0.92 A	P	P	P
11/17/2008	1.84 A	1.36 A	1.62 A	P	P	P
11/18/2008	1.80 A	0.71 A	1.26 A	P	P	P
11/19/2008	1.67 A	0.85 A	1.32 A	P	P	P
11/20/2008	1.73 A	0.77 A	1.20 A	P	P	P
11/21/2008	1.71 A	0.34 A	1.18 A	P	P	P
11/22/2008	1.62 A	0.59 A	1.35 A	P	P	P
11/23/2008	1.61 A	1.14 A	1.38 A	P	P	P
11/24/2008	1.51 A	0.94 A	1.20 A	P	P	P
11/25/2008	1.19 A	0.15 A	0.75 A	P	P	P
11/26/2008	1.23 A	0.77 A	1.03 A	P	P	P
11/27/2008	1.39 A	0.93 A	1.10 A	P	P	P
11/28/2008	1.23 A	0.83 A	1.06 A	P	P	P
11/29/2008	1.98 A	0.96 A	1.45 A	P	P	P
11/30/2008	1.99 A	1.10 A	1.54 A	P	P	P
12/1/2008	1.83 A	-0.15 A	0.91 A	P	P	P
12/2/2008	1.63 A	0.56 A	1.05 A	P	P	P
12/3/2008	1.50 A	0.89 A	1.20 A	P	P	P
12/4/2008	1.11 A	0.66 A	0.95 A	P	P	P
12/5/2008	1.78 A	0.73 A	1.14 A	P	P	P
12/6/2008	1.48 A	1.00 A	1.23 A	P	P	P
12/7/2008	1.01 A	-0.24 A	0.49 A	P	P	P
12/8/2008	1.45 A	0.77 A	1.11 A	P	P	P
12/9/2008	1.48 A	0.66 A	0.97 A	P	P	P
12/10/2008	1.06 A	0.61 A	0.76 A	P	P	P
12/11/2008	1.39 A	0.26 A	0.87 A	P	P	P
12/12/2008	1.71 A	-0.55 A	0.57 A	P	P	P
12/13/2008	1.70 A	0.45 A	1.15 A	P	P	P
12/14/2008	1.73 A	1.10 A	1.47 A	P	P	P
12/15/2008	1.30 A	1.00 A	1.15 A	P	P	P
12/16/2008	2.08 A	0.88 A	1.24 A	P	P	P
12/17/2008	1.35 A	0.68 A	1.06 A	P	P	P
12/18/2008	1.79 A	0.95 A	1.31 A	P	P	P
12/19/2008	1.87 A	0.33 A	1.14 A	P	P	P
12/20/2008	2.02 A	0.31 A	1.19 A	P	P	P
12/21/2008	1.83 A	0.26 A	1.19 A	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
12/22/2008	1.35 A	-0.29 A	0.71 A	P	P	P
12/23/2008	1.99 A	1.25 A	1.54 A	P	P	P
12/24/2008	1.58 A	0.68 A	1.00 A	P	P	P
12/25/2008	1.45 A	0.07 A	0.64 A	P	P	P
12/26/2008	1.47 A	0.85 A	1.13 A	P	P	P
12/27/2008	1.01 A	0.57 A	0.82 A	P	P	P
12/28/2008	0.91 A	0.16 A	0.59 A	P	P	P
12/29/2008	1.44 A	0.16 A	0.69 A	P	P	P
12/30/2008	0.95 A	-0.01 A	0.49 A	P	P	P
12/31/2008	0.55 A	-1.54 A	-0.39 A	P	P	P
1/1/2009	1.19 A	-0.08 A	0.69 A	P	P	P
1/2/2009	1.04 A	-0.10 A	0.56 A	P	P	P
1/3/2009	1.13 A	0.09 A	0.67 A	P	P	P
1/4/2009	1.04 A	0.51 A	0.68 A	P	P	P
1/5/2009	0.64 A	0.38 A	0.51 A	P	P	P
1/6/2009	1.29 A	0.06 A	0.66 A	P	P	P
1/7/2009	0.86 A	-1.35 A	0.07 A	P	P	P
1/8/2009	1.02 A	-1.78 A	-0.17 A	P	P	P
1/9/2009	1.08 A	0.05 A	0.63 A	P	P	P
1/10/2009	1.06 A	0.28 A	0.67 A	P	P	P
1/11/2009	1.74 A	-0.43 A	0.58 A	P	P	P
1/12/2009	1.56 A	0.87 A	1.23 A	P	P	P
1/13/2009	1.87 A	0.76 A	1.29 A	P	P	P
1/14/2009	1.60 A	0.67 A	1.11 A	P	P	P
1/15/2009	1.81 A	0.36 A	0.80 A	P	P	P
1/16/2009	1.81 A	0.90 A	1.25 A	P	P	P
1/17/2009	1.55 A	0.96 A	1.23 A	P	P	P
1/18/2009	0.96 A	0.23 A	0.71 A	P	P	P
1/19/2009	1.15 A	0.21 A	0.81 A	P	P	P
1/20/2009	2.16 A	0.77 A	1.56 A	P	P	P
1/21/2009	1.73 A	0.65 A	1.08 A	P	P	P
1/22/2009	0.95 A	0.66 A	0.78 A	P	P	P
1/23/2009	0.84 A	0.22 A	0.61 A	P	P	P
1/24/2009	1.75 A	0.25 A	0.80 A	P	P	P
1/25/2009	2.08 A	1.21 A	1.58 A	P	P	P
1/26/2009	1.38 A	1.00 A	1.21 A	P	P	P
1/27/2009	1.43 A	0.82 A	1.17 A	P	P	P
1/28/2009	1.13 A	-0.73 A	0.57 A	P	P	P
1/29/2009	1.55 A	-0.29 A	1.17 A	P	P	P
1/30/2009	1.54 A	0.46 A	1.04 A	P	P	P
1/31/2009	1.22 A	-0.04 A	0.71 A	P	P	P
2/1/2009	1.04 A	0.24 A	0.55 A	P	P	P
2/2/2009	0.84 A	0.31 A	0.65 A	P	P	P
2/3/2009	1.28 A	-0.06 A	0.60 A	P	P	P
2/4/2009	1.54 A	0.21 A	0.86 A	P	P	P
2/5/2009	1.47 A	0.18 A	0.80 A	P	P	P
2/6/2009	1.21 A	0.35 A	0.88 A	P	P	P
2/7/2009	0.96 A	0.13 A	0.69 A	P	P	P
2/8/2009	0.85 A	-0.08 A	0.38 A	P	P	P
2/9/2009	1.60 A	0.57 A	1.08 A	P	P	P
2/10/2009	1.05 A	0.48 A	0.75 A	P	P	P
2/11/2009	0.83 A	0.16 A	0.54 A	P	P	P
2/12/2009	0.57 A	-1.20 A	-0.13 A	P	P	P
2/13/2009	1.20 A	-0.07 A	0.61 A	P	P	P
2/14/2009	1.98 A	0.50 A	1.14 A	P	P	P
2/15/2009	1.95 A	0.27 A	1.19 A	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
2/16/2009	1.94 A	0.41 A	1.25 A	P	P	P
2/17/2009	1.75 A	0.71 A	1.16 A	P	P	P
2/18/2009	1.34 A	-0.61 A	0.76 A	P	P	P
2/19/2009	1.05 A	-0.67 A	0.31 A	P	P	P
2/20/2009	0.94 A	0.20 A	0.71 A	P	P	P
2/21/2009	1.48 A	0.47 A	0.99 A	P	P	P
2/22/2009	1.20 A	-0.83 A	0.32 A	P	P	P
2/23/2009	0.69 A	0.02 A	0.27 A	P	P	P
2/24/2009	1.12 A	0.34 A	0.75 A	P	P	P
2/25/2009	1.20 A	0.47 A	0.76 A	P	P	P
2/26/2009	0.73 A	0.35 A	0.56 A	P	P	P
2/27/2009	0.78 A	0.25 A	0.51 A	P	P	P
2/28/2009	2.12 A	0.45 A	0.97 A	P	P	P
3/1/2009	2.21 A	0.32 A	1.37 A	P	P	P
3/2/2009	1.73 A	0.96 A	1.23 A	P	P	P
3/3/2009	1.90 A	1.28 A	1.65 A	P	P	P
3/4/2009	1.76 A	1.39 A	1.58 A	P	P	P
3/5/2009	1.42 A	0.97 A	1.22 A	P	P	P
3/6/2009	1.18 A	0.13 A	0.85 A	P	P	P
3/7/2009	1.36 A	0.57 A	0.92 A	P	P	P
3/8/2009	1.14 A	0.64 A	0.81 A	P	P	P
3/9/2009	1.32 A	0.60 A	0.86 A	P	P	P
3/10/2009	2.15 A	1.32 A	1.91 A	P	P	P
3/11/2009	2.03 A	1.27 A	1.60 A	P	P	P
3/12/2009	2.71 A	1.28 A	2.11 A	P	P	P
3/13/2009	2.77 A	2.33 A	2.52 A	P	P	P
3/14/2009	2.36 A	1.82 A	2.08 A	P	P	P
3/15/2009	1.89 A	1.42 A	1.67 A	P	P	P
3/16/2009	1.84 A	1.21 A	1.61 A	P	P	P
3/17/2009	1.96 A	1.22 A	1.71 A	P	P	P
3/18/2009	1.84 A	1.53 A	1.71 A	P	P	P
3/19/2009	1.53 A	0.80 A	1.29 A	P	P	P
3/20/2009	2.50 A	0.77 A	1.85 A	P	P	P
3/21/2009	2.54 A	2.14 A	2.29 A	P	P	P
3/22/2009	2.23 A	1.49 A	1.91 A	P	P	P
3/23/2009	2.57 A	1.17 A	1.70 A	P	P	P
3/24/2009	2.57 A	1.95 A	2.25 A	P	P	P
3/25/2009	2.57 A	1.99 A	2.23 A	P	P	P
3/26/2009	1.99 A	1.54 A	1.73 A	P	P	P
3/27/2009	1.96 A	1.41 A	1.67 A	P	P	P
3/28/2009	1.98 A	1.61 A	1.80 A	P	P	P
3/29/2009	2.07 A	0.65 A	1.58 A	P	P	P
3/30/2009	2.05 A	0.48 A	1.21 A	P	P	P
3/31/2009	2.63 A	1.82 A	2.22 A	P	P	P
4/1/2009	2.37 A	1.75 A	2.07 A	P	P	P
4/2/2009	2.23 A	1.78 A	2.01 A	P	P	P
4/3/2009	2.22 A	0.90 A	1.58 A	P	P	P
4/4/2009	1.84 A	1.31 A	1.52 A	P	P	P
4/5/2009	2.45 A	1.45 A	1.92 A	P	P	P
4/6/2009	1.81 A	0.23 A	1.23 A	P	P	P
4/7/2009	1.26 A	0.57 A	0.90 A	P	P	P
4/8/2009	1.47 A	0.81 A	1.20 A	P	P	P
4/9/2009	1.68 A	0.72 A	1.28 A	P	P	P
4/10/2009	1.79 A	0.82 A	1.42 A	P	P	P
4/11/2009	1.97 A	0.72 A	1.18 A	P	P	P
4/12/2009	2.33 A	1.41 A	1.84 A	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
4/13/2009	2.02 A	1.57 A	1.78 A	P	P	P
4/14/2009	1.73 A	1.10 A	1.43 A	P	P	P
4/15/2009	2.04 A	1.10 A	1.58 A	P	P	P
4/16/2009	2.73 A	1.67 A	2.15 A	P	P	P
4/17/2009	2.73 A	1.80 A	2.25 A	P	P	P
4/18/2009	1.80 A	0.79 A	1.25 A	P	P	P
4/19/2009	1.22 A	0.56 A	0.81 A	P	P	P
4/20/2009	1.45 A	0.26 A	1.08 A	P	P	P
4/21/2009	1.50 A	0.48 A	1.11 A	P	P	P
4/22/2009	1.70 A	-1.29 A	0.44 A	P	P	P
4/23/2009	1.91 A	0.34 A	1.04 A	P	P	P
4/24/2009	2.22 A	0.69 A	1.37 A	P	P	P
4/25/2009	1.19 A	0.36 A	0.78 A	P	P	P
4/26/2009	1.27 A	0.32 A	0.78 A	P	P	P
4/27/2009	1.17 A	0.15 A	0.76 A	P	P	P
4/28/2009	0.97 A	0.29 A	0.70 A	P	P	P
4/29/2009	1.66 A	0.20 A	0.57 A	P	P	P
4/30/2009	2.00 A	0.62 A	1.21 A	P	P	P
5/1/2009	1.07 A	-0.59 A	0.40 A	P	P	P
5/2/2009	0.24 A	-1.04 A	-0.25 A	P	P	P
5/3/2009	0.45 A	-0.66 A	-0.01 A	P	P	P
5/4/2009	0.55 A	-0.51 A	-0.01 A	P	P	P
5/5/2009	1.51 A	-0.24 A	0.56 A	P	P	P
5/6/2009	1.11 A	0.40 A	0.70 A	P	P	P
5/7/2009	0.93 A	-0.09 A	0.32 A	P	P	P
5/8/2009	1.11 A	0.22 A	0.73 A	P	P	P
5/9/2009	0.68 A	-0.37 A	0.31 A	P	P	P
5/10/2009	1.64 A	-0.36 A	0.91 A	P	P	P
5/11/2009	2.47 A	0.88 A	1.75 A	P	P	P
5/12/2009	2.39 A	1.18 A	1.63 A	P	P	P
5/13/2009	2.19 A	1.38 A	1.74 A	P	P	P
5/14/2009	1.97 A	0.76 A	1.43 A	P	P	P
5/15/2009	1.43 A	0.76 A	1.10 A	P	P	P
5/16/2009	1.33 A	0.50 A	0.86 A	P	P	P
5/17/2009	2.43 A	0.49 A	0.88 A	P	P	P
5/18/2009	3.13 A	2.35 A	2.76 A	P	P	P
5/19/2009	3.44 A	2.63 A	3.11 A	P	P	P
5/20/2009	3.02 A	2.43 A	2.62 A	P	P	P
5/21/2009	2.43 A	1.20 A	1.83 A	P	P	P
5/22/2009	1.58 A	1.02 A	1.29 A	P	P	P
5/23/2009	1.41 A	0.87 A	1.19 A	P	P	P
5/24/2009	1.23 A	0.89 A	1.01 A	P	P	P
5/25/2009	1.35 A	0.79 A	1.06 A	P	P	P
5/26/2009	1.66 A	0.82 A	1.32 A	P	P	P
5/27/2009	1.87 A	1.15 A	1.49 A	P	P	P
5/28/2009	1.66 A	0.79 A	1.32 A	P	P	P
5/29/2009	1.45 A	0.52 A	0.94 A	P	P	P
5/30/2009	2.08 A	0.27 A	1.34 A	P	P	P
5/31/2009	1.64 A	0.73 A	1.19 A	P	P	P
6/1/2009	2.50 A	0.82 A	1.75 A	P	P	P
6/2/2009	1.54 A	0.31 A	1.14 A	P	P	P
6/3/2009	1.30 A	0.31 A	0.87 A	P	P	P
6/4/2009	1.69 A	0.53 A	0.93 A	P	P	P
6/5/2009	1.05 A	-0.36 A	0.58 A	P	P	P
6/6/2009	1.98 A	-0.22 A	1.27 A	P	P	P
6/7/2009	2.17 A	1.51 A	1.88 A	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
6/8/2009	1.82 A	0.80 A	1.48 A	P	P	P
6/9/2009	1.88 A	0.80 A	1.30 A	P	P	P
6/10/2009	1.96 A	1.34 A	1.71 A	P	P	P
6/11/2009	1.74 A	1.18 A	1.56 A	P	P	P
6/12/2009	1.66 A	0.90 A	1.18 A	P	P	P
6/13/2009	2.02 A	0.51 A	1.47 A	P	P	P
6/14/2009	2.41 A	1.51 A	1.87 A	P	P	P
6/15/2009	2.46 A	1.91 A	2.20 A	P	P	P
6/16/2009	2.65 A	1.98 A	2.27 A	P	P	P
6/17/2009	2.63 A	2.08 A	2.32 A	P	P	P
6/18/2009	2.33 A	1.52 A	1.91 A	P	P	P
6/19/2009	2.34 A	1.04 A	1.75 A	P	P	P
6/20/2009	2.25 A	1.39 A	1.68 A	P	P	P
6/21/2009	2.45 A	0.95 A	1.63 A	P	P	P
6/22/2009	2.54 A	1.81 A	2.19 A	P	P	P
6/23/2009	2.72 A	2.14 A	2.39 A	P	P	P
6/24/2009	2.60 A	1.85 A	2.19 A	P	P	P
6/25/2009	2.18 A	1.87 A	2.04 A	P	P	P
6/26/2009	2.03 A	1.13 A	1.69 A	P	P	P
6/27/2009	2.27 A	1.20 A	1.82 A	P	P	P
6/28/2009	2.23 A	1.62 A	1.96 A	P	P	P
6/29/2009	2.21 A	1.16 A	1.76 A	P	P	P
6/30/2009	2.10 A	1.33 A	1.79 A	P	P	P
7/1/2009	P	P	P	P	P	P
No data from 7/1/2009 to 3/11/2010						
3/11/2010	P	P	P	P	P	P
3/12/2010	2.85 A	1.80 A	2.24 A	P	P	P
3/13/2010	2.68 A	1.60 A	2.07 A	P	P	P
3/14/2010	2.19 A	1.14 A	1.70 A	P	P	P
3/15/2010	2.45 A	1.90 A	2.15 A	P	P	P
3/16/2010	2.65 A	2.12 A	2.43 A	P	P	P
3/17/2010	2.73 A	2.31 A	2.51 A	P	P	P
3/18/2010	2.71 A	2.23 A	2.41 A	P	P	P
3/19/2010	2.42 A	2.03 A	2.17 A	P	P	P
3/20/2010	2.14 A	1.73 A	1.93 A	P	P	P
3/21/2010	1.97 A	1.59 A	1.80 A	P	P	P
3/22/2010	2.06 A	0.78 A	1.59 A	P	P	P
3/23/2010	1.61 A	-0.04 A	0.67 A	P	P	P
3/24/2010	1.70 A	0.86 A	1.33 A	P	P	P
3/25/2010	1.72 A	0.87 A	1.37 A	P	P	P
3/26/2010	2.40 A	0.90 A	1.27 A	P	P	P
3/27/2010	2.86 A	2.39 A	2.69 A	P	P	P
3/28/2010	2.72 A	2.10 A	2.40 A	P	P	P
3/29/2010	2.11 A	1.45 A	1.86 A	P	P	P
3/30/2010	2.26 A	1.32 A	1.89 A	P	P	P
3/31/2010	2.36 A	1.53 A	1.95 A	P	P	P
4/1/2010	2.54 A	1.93 A	2.19 A	P	P	P
4/2/2010	2.43 A	2.11 A	2.25 A	P	P	P
4/3/2010	2.27 A	2.02 A	2.16 A	P	P	P
4/4/2010	2.07 A	1.59 A	1.87 A	P	P	P
4/5/2010	1.93 A	1.25 A	1.75 A	P	P	P
4/6/2010	2.09 A	1.12 A	1.63 A	P	P	P
4/7/2010	1.92 A	1.13 A	1.48 A	P	P	P
4/8/2010	1.61 A	1.07 A	1.34 A	P	P	P
4/9/2010	1.78 A	0.82 A	1.21 A	P	P	P
4/10/2010	2.31 A	1.35 A	1.77 A	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
4/11/2010	1.97 A	1.11 A	1.59 A	P	P	P
4/12/2010	1.71 A	1.08 A	1.33 A	P	P	P
4/13/2010	1.74 A	0.80 A	1.34 A	P	P	P
4/14/2010	2.51 A	0.80 A	2.01 A	P	P	P
4/15/2010	1.89 A	0.88 A	1.39 A	P	P	P
4/16/2010	0.88 A	0.09 A	0.58 A	P	P	P
4/17/2010	1.47 A	-0.14 A	0.46 A	P	P	P
4/18/2010	2.52 A	0.72 A	1.74 A	P	P	P
4/19/2010	1.99 A	0.95 A	1.45 A	P	P	P
4/20/2010	2.02 A	1.09 A	1.35 A	P	P	P
4/21/2010	1.59 A	0.93 A	1.23 A	P	P	P
4/22/2010	1.64 A	0.80 A	1.20 A	P	P	P
4/23/2010	1.60 A	0.68 A	1.15 A	P	P	P
4/24/2010	2.36 A	1.21 A	1.75 A	P	P	P
4/25/2010	1.69 A	-0.55 A	0.66 A	P	P	P
4/26/2010	1.47 A	-0.09 A	0.58 A	P	P	P
4/27/2010	1.74 A	-0.13 A	0.83 A	P	P	P
4/28/2010	2.41 A	0.93 A	1.75 A	P	P	P
4/29/2010	2.18 A	0.38 A	1.55 A	P	P	P
4/30/2010	1.75 A	0.22 A	0.95 A	P	P	P
5/1/2010	1.45 A	0.20 A	0.81 A	P	P	P
5/2/2010	1.09 A	-0.03 A	0.67 A	P	P	P
5/3/2010	1.01 A	-0.19 A	0.41 A	P	P	P
5/4/2010	1.37 A	P	0.54 A	P	P	P
5/5/2010	1.43 A	0.86 A	1.15 A	P	P	P
5/6/2010	1.13 A	0.22 A	0.82 A	P	P	P
5/7/2010	2.23 A	0.22 A	1.27 A	P	P	P
5/8/2010	1.17 A	-0.56 A	0.22 A	P	P	P
5/9/2010	1.49 A	-0.25 A	0.83 A	P	P	P
5/10/2010	2.09 A	0.53 A	1.28 A	P	P	P
5/11/2010	1.77 A	0.88 A	1.32 A	P	P	P
5/12/2010	1.19 A	-0.23 A	0.36 A	P	P	P
5/13/2010	1.89 A	-0.49 A	0.82 A	P	P	P
5/14/2010	1.50 A	-0.01 A	0.82 A	P	P	P
5/15/2010	1.20 A	-0.19 A	0.41 A	P	P	P
5/16/2010	1.89 A	0.20 A	1.00 A	P	P	P
5/17/2010	2.05 A	0.78 A	1.43 A	P	P	P
5/18/2010	1.36 A	0.43 A	0.97 A	P	P	P
5/19/2010	1.92 A	1.16 A	1.65 A	P	P	P
5/20/2010	1.98 A	1.38 A	1.69 A	P	P	P
5/21/2010	1.96 A	1.23 A	1.64 A	P	P	P
5/22/2010	1.83 A	1.17 A	1.57 A	P	P	P
5/23/2010	1.76 A	1.11 A	1.50 A	P	P	P
5/24/2010	2.43 A	1.50 A	2.00 A	P	P	P
5/25/2010	2.57 A	2.15 A	2.39 A	P	P	P
5/26/2010	2.92 A	2.49 A	2.65 A	P	P	P
5/27/2010	2.50 A	1.37 A	1.84 A	P	P	P
5/28/2010	2.53 A	1.44 A	2.25 A	P	P	P
5/29/2010	2.33 A	1.12 A	1.71 A	P	P	P
5/30/2010	1.56 A	0.74 A	1.25 A	P	P	P
5/31/2010	1.67 A	0.68 A	1.16 A	P	P	P
6/1/2010	1.36 A	0.63 A	0.95 A	P	P	P
6/2/2010	1.83 A	0.72 A	1.12 A	P	P	P
6/3/2010	1.16 A	0.57 A	0.96 A	P	P	P
6/4/2010	1.57 A	0.53 A	1.03 A	P	P	P
6/5/2010	1.10 A	0.78 A	0.98 A	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
6/6/2010	1.04 A	0.03 A	0.77 A	P	P	P
6/7/2010	2.06 A	0.03 A	1.28 A	P	P	P
6/8/2010	2.31 A	1.04 A	1.50 A	P	P	P
6/9/2010	2.34 A	0.09 A	1.49 A	P	P	P
6/10/2010	1.28 A	-0.39 A	0.34 A	P	P	P
6/11/2010	2.38 A	0.70 A	1.57 A	P	P	P
6/12/2010	1.90 A	0.74 A	1.48 A	P	P	P
6/13/2010	1.35 A	0.27 A	0.82 A	P	P	P
6/14/2010	1.77 A	0.70 A	1.21 A	P	P	P
6/15/2010	2.34 A	1.01 A	1.53 A	P	P	P
6/16/2010	2.30 A	0.94 A	1.58 A	P	P	P
6/17/2010	1.77 A	0.79 A	1.33 A	P	P	P
6/18/2010	2.19 A	1.18 A	1.81 A	P	P	P
6/19/2010	2.06 A	1.14 A	1.62 A	P	P	P
6/20/2010	1.73 A	0.39 A	1.15 A	P	P	P
6/21/2010	1.79 A	0.31 A	1.16 A	P	P	P
6/22/2010	1.34 A	0.39 A	0.95 A	P	P	P
6/23/2010	1.32 A	0.35 A	0.71 A	P	P	P
6/24/2010	1.34 A	0.21 A	0.75 A	P	P	P
6/25/2010	1.65 A	-0.02 A	0.75 A	P	P	P
6/26/2010	1.52 A	0.60 A	1.08 A	P	P	P
6/27/2010	1.50 A	0.07 A	0.67 A	P	P	P
6/28/2010	0.63 A	-0.12 A	0.35 A	P	P	P
6/29/2010	1.06 A	-0.75 A	0.28 A	P	P	P
6/30/2010	1.98 A	0.31 A	1.09 A	P	P	P
7/1/2010	2.25 A	1.14 A	1.72 A	P	P	P
7/2/2010	2.22 A	1.37 A	1.78 A	P	P	P
7/3/2010	2.19 A	1.15 A	1.62 A	P	P	P
7/4/2010	1.43 A	0.84 A	1.14 A	P	P	P
7/5/2010	1.28 A	0.50 A	0.84 A	P	P	P
7/6/2010	1.27 A	0.31 A	0.70 A	P	P	P
7/7/2010	1.36 A	0.45 A	0.88 A	P	P	P
7/8/2010	1.69 A	1.08 A	1.47 A	P	P	P
7/9/2010	1.90 A	0.52 A	1.11 A	P	P	P
7/10/2010	1.27 A	0.42 A	0.81 A	P	P	P
7/11/2010	1.67 A	0.69 A	1.26 A	P	P	P
7/12/2010	1.60 A	0.91 A	1.34 A	P	P	P
7/13/2010	1.30 A	0.18 A	0.91 A	P	P	P
7/14/2010	1.14 A	0.10 A	0.55 A	P	P	P
7/15/2010	1.79 A	0.42 A	1.13 A	P	P	P
7/16/2010	1.57 A	0.18 A	0.83 A	P	P	P
7/17/2010	1.12 A	-0.03 A	0.42 A	P	P	P
7/18/2010	1.06 A	0.00 A	0.60 A	P	P	P
7/19/2010	0.76 A	-0.17 A	0.33 A	P	P	P
7/20/2010	1.02 A	-0.50 A	0.24 A	P	P	P
7/21/2010	1.01 A	-0.35 A	0.35 A	P	P	P
7/22/2010	1.43 A	-0.43 A	0.61 A	P	P	P
7/23/2010	1.51 A	0.22 A	0.90 A	P	P	P
7/24/2010	0.76 A	-0.04 A	0.23 A	P	P	P
7/25/2010	0.76 A	-0.31 A	0.12 A	P	P	P
7/26/2010	1.95 A	-0.42 A	0.97 A	P	P	P
7/27/2010	1.71 A	0.95 A	1.35 A	P	P	P
7/28/2010	1.30 A	0.73 A	1.10 A	P	P	P
7/29/2010	0.91 A	0.27 A	0.68 A	P	P	P
7/30/2010	2.13 A	0.43 A	1.11 A	P	P	P
7/31/2010	2.22 A	1.09 A	1.58 A	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
8/1/2010	1.60 A	0.77 A	1.22 A	P	P	P
8/2/2010	1.97 A	1.04 A	1.58 A	P	P	P
8/3/2010	2.05 A	1.05 A	1.56 A	P	P	P
8/4/2010	1.22 A	0.18 A	0.94 A	P	P	P
8/5/2010	1.01 A	-0.09 A	0.39 A	P	P	P
8/6/2010	1.21 A	-0.10 A	0.69 A	P	P	P
8/7/2010	1.94 A	0.50 A	1.26 A	P	P	P
8/8/2010	1.83 A	1.25 A	1.57 A	P	P	P
8/9/2010	2.05 A	0.90 A	1.45 A	P	P	P
8/10/2010	1.66 A	0.57 A	1.15 A	P	P	P
8/11/2010	1.60 A	0.50 A	0.88 A	P	P	P
8/12/2010	1.91 A	0.40 A	1.29 A	P	P	P
8/13/2010	2.58 A	1.24 A	2.02 A	P	P	P
8/14/2010	2.59 A	2.09 A	2.29 A	P	P	P
8/15/2010	2.16 A	1.74 A	1.96 A	P	P	P
8/16/2010	2.13 A	1.39 A	1.80 A	P	P	P
8/17/2010	1.86 A	1.09 A	1.47 A	P	P	P
8/18/2010	1.47 A	0.61 A	1.21 A	P	P	P
8/19/2010	1.84 A	0.15 A	1.27 A	P	P	P
8/20/2010	2.30 A	1.27 A	1.79 A	P	P	P
8/21/2010	2.03 A	1.49 A	1.78 A	P	P	P
8/22/2010	1.76 A	0.97 A	1.32 A	P	P	P
8/23/2010	2.14 A	0.70 A	1.51 A	P	P	P
8/24/2010	2.62 A	1.53 A	2.05 A	P	P	P
8/25/2010	2.62 A	1.76 A	2.11 A	P	P	P
8/26/2010	2.04 A	1.48 A	1.80 A	P	P	P
8/27/2010	2.38 A	1.48 A	1.95 A	P	P	P
8/28/2010	2.50 A	1.77 A	2.12 A	P	P	P
8/29/2010	2.35 A	1.87 A	2.07 A	P	P	P
8/30/2010	2.05 A	1.42 A	1.68 A	P	P	P
8/31/2010	2.25 A	1.26 A	1.61 A	P	P	P
9/1/2010	2.12 A	1.29 A	1.67 A	P	P	P
9/2/2010	2.75 A	1.36 A	2.18 A	P	P	P
9/3/2010	2.71 A	0.59 A	1.98 A	P	P	P
9/4/2010	2.43 A	1.26 A	1.86 A	P	P	P
9/5/2010	2.25 A	1.75 A	2.00 A	P	P	P
9/6/2010	2.37 A	1.63 A	2.02 A	P	P	P
9/7/2010	2.24 A	1.39 A	1.92 A	P	P	P
9/8/2010	1.63 A	0.74 A	1.20 A	P	P	P
9/9/2010	2.19 A	0.70 A	1.46 A	P	P	P
9/10/2010	2.24 A	1.11 A	1.86 A	P	P	P
9/11/2010	2.34 A	1.79 A	2.10 A	P	P	P
9/12/2010	2.19 A	1.12 A	1.84 A	P	P	P
9/13/2010	2.23 A	1.64 A	1.95 A	P	P	P
9/14/2010	2.20 A	1.20 A	1.58 A	P	P	P
9/15/2010	2.26 A	0.76 A	1.65 A	P	P	P
9/16/2010	2.08 A	0.94 A	1.45 A	P	P	P
9/17/2010	1.42 A	0.73 A	1.09 A	P	P	P
9/18/2010	2.24 A	1.11 A	1.79 A	P	P	P
9/19/2010	2.32 A	1.47 A	2.02 A	P	P	P
9/20/2010	2.34 A	1.47 A	1.93 A	P	P	P
9/21/2010	2.49 A	1.77 A	2.16 A	P	P	P
9/22/2010	1.94 A	0.92 A	1.56 A	P	P	P
9/23/2010	1.79 A	0.90 A	1.36 A	P	P	P
9/24/2010	1.81 A	0.88 A	1.38 A	P	P	P
9/25/2010	1.68 A	0.62 A	1.19 A	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
9/26/2010	1.89 A	0.62 A	1.36 A	P	P	P
9/27/2010	1.88 A	1.26 A	1.60 A	P	P	P
9/28/2010	2.22 A	1.36 A	1.85 A	P	P	P
9/29/2010	2.92 A	1.71 A	2.35 A	P	P	P
9/30/2010	5.79 A	2.92 A	4.15 A	P	P	P
10/1/2010	8.45 A	5.79 A	7.41 A	P	P	P
10/2/2010	8.96 A	8.45 A	8.80 A	P	P	P
10/3/2010	8.96 A	8.56 A	8.82 A	P	P	P
10/4/2010	8.57 A	7.71 A	8.16 A	P	P	P
10/5/2010	7.71 A	6.68 A	7.22 A	P	P	P
10/6/2010	6.68 A	5.39 A	6.05 A	P	P	P
10/7/2010	5.39 A	4.26 A	4.80 A	P	P	P
10/8/2010	4.26 A	3.66 A	3.95 A	P	P	P
10/9/2010	3.66 A	3.18 A	3.37 A	P	P	P
10/10/2010	3.18 A	2.91 A	3.03 A	P	P	P
10/11/2010	2.91 A	2.53 A	2.64 A	P	P	P
10/12/2010	2.54 A	2.10 A	2.26 A	P	P	P
10/13/2010	2.84 A	1.91 A	2.19 A	P	P	P
10/14/2010	2.87 A	1.82 A	2.36 A	P	P	P
10/15/2010	2.16 A	1.28 A	1.85 A	P	P	P
10/16/2010	2.08 A	1.21 A	1.58 A	P	P	P
10/17/2010	2.00 A	1.07 A	1.50 A	P	P	P
10/18/2010	1.77 A	0.84 A	1.21 A	P	P	P
10/19/2010	1.67 A	0.93 A	1.24 A	P	P	P
10/20/2010	2.03 A	1.25 A	1.55 A	P	P	P
10/21/2010	1.67 A	1.08 A	1.43 A	P	P	P
10/22/2010	2.33 A	1.10 A	1.65 A	P	P	P
10/23/2010	2.06 A	1.02 A	1.65 A	P	P	P
10/24/2010	1.65 A	0.97 A	1.33 A	P	P	P
10/25/2010	1.61 A	0.78 A	1.18 A	P	P	P
10/26/2010	1.61 A	0.32 A	0.97 A	P	P	P
10/27/2010	1.34 A	0.66 A	0.92 A	P	P	P
10/28/2010	1.31 A	0.56 A	0.84 A	P	P	P
10/29/2010	1.96 A	0.54 A	1.18 A	P	P	P
10/30/2010	1.70 A	0.74 A	1.35 A	P	P	P
10/31/2010	1.39 A	-0.08 A	0.44 A	P	P	P
11/1/2010	2.14 A	0.82 A	1.64 A	P	P	P
11/2/2010	2.27 A	1.58 A	2.05 A	P	P	P
11/3/2010	2.14 A	1.18 A	1.79 A	P	P	P
11/4/2010	1.79 A	0.65 A	1.22 A	P	P	P
11/5/2010	1.92 A	0.78 A	1.50 A	P	P	P
11/6/2010	1.87 A	1.41 A	1.62 A	P	P	P
11/7/2010	2.18 A	1.45 A	1.80 A	P	P	P
11/8/2010	1.70 A	0.96 A	1.38 A	P	P	P
11/9/2010	2.05 A	0.74 A	1.47 A	P	P	P
11/10/2010	2.37 A	1.33 A	1.69 A	P	P	P
11/11/2010	2.72 A	1.36 A	2.12 A	P	P	P
11/12/2010	2.81 A	2.06 A	2.42 A	P	P	P
11/13/2010	2.81 A	2.29 A	2.44 A	P	P	P
11/14/2010	2.71 A	2.27 A	2.40 A	P	P	P
11/15/2010	2.34 A	1.99 A	2.16 A	P	P	P
11/16/2010	2.39 A	1.94 A	2.13 A	P	P	P
11/17/2010	2.22 A	0.95 A	1.64 A	P	P	P
11/18/2010	2.18 A	1.49 A	1.90 A	P	P	P
11/19/2010	2.21 A	1.41 A	1.80 A	P	P	P
11/20/2010	1.74 A	1.01 A	1.28 A	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
11/21/2010	1.84 A	0.92 A	1.34 A	P	P	P
11/22/2010	1.62 A	0.93 A	1.30 A	P	P	P
11/23/2010	1.33 A	0.82 A	1.10 A	P	P	P
11/24/2010	2.20 A	0.57 A	1.50 A	P	P	P
11/25/2010	2.20 A	1.12 A	1.54 A	P	P	P
11/26/2010	1.53 A	0.13 A	0.95 A	P	P	P
11/27/2010	1.91 A	0.60 A	1.10 A	P	P	P
11/28/2010	2.30 A	0.86 A	1.70 A	P	P	P
11/29/2010	2.17 A	1.33 A	1.74 A	P	P	P
11/30/2010	1.92 A	1.10 A	1.50 A	P	P	P
12/1/2010	1.96 A	0.05 A	0.94 A	P	P	P
12/2/2010	1.87 A	0.57 A	1.36 A	P	P	P
12/3/2010	1.78 A	1.00 A	1.41 A	P	P	P
12/4/2010	2.03 A	1.06 A	1.53 A	P	P	P
12/5/2010	1.81 A	0.68 A	1.14 A	P	P	P
12/6/2010	1.38 A	0.19 A	0.82 A	P	P	P
12/7/2010	1.22 A	0.05 A	0.72 A	P	P	P
12/8/2010	1.38 A	0.27 A	0.98 A	P	P	P
12/9/2010	1.71 A	0.69 A	1.21 A	P	P	P
12/10/2010	1.70 A	0.93 A	1.20 A	P	P	P
12/11/2010	1.78 A	0.80 A	1.16 A	P	P	P
12/12/2010	1.81 A	0.27 A	1.07 A	P	P	P
12/13/2010	0.48 A	-1.19 A	-0.18 A	P	P	P
12/14/2010	0.53 A	-0.63 A	-0.07 A	P	P	P
12/15/2010	0.99 A	0.33 A	0.66 A	P	P	P
12/16/2010	1.17 A	-0.04 A	0.74 A	P	P	P
12/17/2010	1.68 A	0.13 A	1.19 A	P	P	P
12/18/2010	1.65 A	1.17 A	1.40 A	P	P	P
12/19/2010	1.69 A	1.11 A	1.42 A	P	P	P
12/20/2010	1.43 A	0.79 A	1.11 A	P	P	P
12/21/2010	1.47 A	0.80 A	1.17 A	P	P	P
12/22/2010	1.57 A	0.90 A	1.31 A	P	P	P
12/23/2010	1.57 A	0.53 A	1.19 A	P	P	P
12/24/2010	1.80 A	0.97 A	1.49 A	P	P	P
12/25/2010	1.90 A	1.29 A	1.60 A	P	P	P
12/26/2010	2.39 A	0.89 A	1.71 A	P	P	P
12/27/2010	1.23 A	0.12 A	0.74 A	P	P	P
12/28/2010	1.56 A	0.19 A	1.07 A	P	P	P
12/29/2010	1.36 A	0.88 A	1.17 A	P	P	P
12/30/2010	1.48 A	1.04 A	1.24 A	P	P	P
12/31/2010	1.45 A	0.85 A	1.12 A	P	P	P
1/1/2011	1.54 A	0.85 A	1.09 A	P	P	P
1/2/2011	1.53 A	0.16 A	0.88 A	P	P	P
1/3/2011	1.66 A	0.50 A	1.33 A	P	P	P
1/4/2011	1.25 A	0.81 A	1.06 A	P	P	P
1/5/2011	1.42 A	0.75 A	1.01 A	P	P	P
1/6/2011	1.38 A	0.81 A	1.15 A	P	P	P
1/7/2011	1.50 A	0.67 A	1.10 A	P	P	P
1/8/2011	1.14 A	0.31 A	0.83 A	P	P	P
1/9/2011	1.53 A	0.31 A	0.99 A	P	P	P
1/10/2011	1.75 A	0.88 A	1.35 A	P	P	P
1/11/2011	1.99 A	0.42 A	1.41 A	P	P	P
1/12/2011	0.63 A	-0.53 A	-0.08 A	P	P	P
1/13/2011	0.98 A	-0.27 A	0.49 A	P	P	P
1/14/2011	1.22 A	0.49 A	0.73 A	P	P	P
1/15/2011	0.92 A	0.29 A	0.63 A	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
1/16/2011	1.11 A	0.22 A	0.58 A	P	P	P
1/17/2011	1.78 A	0.62 A	1.10 A	P	P	P
1/18/2011	1.40 A	0.71 A	0.99 A	P	P	P
1/19/2011	1.54 A	0.98 A	1.23 A	P	P	P
1/20/2011	2.19 A	0.99 A	1.60 A	P	P	P
1/21/2011	1.88 A	-0.09 A	1.13 A	P	P	P
1/22/2011	2.58 A	1.16 A	2.18 A	P	P	P
1/23/2011	2.07 A	1.10 A	1.49 A	P	P	P
1/24/2011	2.30 A	1.40 A	1.88 A	P	P	P
1/25/2011	2.00 A	1.00 A	1.26 A	P	P	P
1/26/2011	2.18 A	-0.91 A	1.04 A	P	P	P
1/27/2011	1.53 A	-0.93 A	1.02 A	P	P	P
1/28/2011	1.70 A	0.89 A	1.27 A	P	P	P
1/29/2011	1.67 A	0.90 A	1.36 A	P	P	P
1/30/2011	1.82 A	0.96 A	1.29 A	P	P	P
1/31/2011	2.32 A	1.43 A	1.86 A	P	P	P
2/1/2011	1.66 A	1.12 A	1.40 A	P	P	P
2/2/2011	1.72 A	0.22 A	0.96 A	P	P	P
2/3/2011	1.90 A	0.69 A	1.35 A	P	P	P
2/4/2011	1.98 A	1.47 A	1.69 A	P	P	P
2/5/2011	2.17 A	0.45 A	1.30 A	P	P	P
2/6/2011	1.78 A	0.51 A	1.37 A	P	P	P
2/7/2011	1.64 A	1.35 A	1.47 A	P	P	P
2/8/2011	1.58 A	0.43 A	1.08 A	P	P	P
2/9/2011	2.22 A	1.20 A	1.86 A	P	P	P
2/10/2011	1.99 A	1.52 A	1.78 A	P	P	P
2/11/2011	1.97 A	1.42 A	1.77 A	P	P	P
2/12/2011	1.42 A	0.70 A	1.03 A	P	P	P
2/13/2011	1.23 A	0.60 A	0.96 A	P	P	P
2/14/2011	0.60 A	-0.09 A	0.24 A	P	P	P
2/15/2011	1.58 A	-0.02 A	0.91 A	P	P	P
2/16/2011	1.60 A	0.58 A	1.01 A	P	P	P
2/17/2011	1.17 A	0.50 A	0.82 A	P	P	P
2/18/2011	0.65 A	0.19 A	0.47 A	P	P	P
2/19/2011	0.84 A	-0.35 A	0.39 A	P	P	P
2/20/2011	1.58 A	0.44 A	1.08 A	P	P	P
2/21/2011	1.19 A	-0.12 A	0.54 A	P	P	P
2/22/2011	2.04 A	0.09 A	1.45 A	P	P	P
2/23/2011	2.12 A	1.29 A	1.77 A	P	P	P
2/24/2011	2.12 A	0.97 A	1.39 A	P	P	P
2/25/2011	1.42 A	-0.58 A	0.37 A	P	P	P
2/26/2011	2.44 A	0.88 A	1.75 A	P	P	P
2/27/2011	1.81 A	0.60 A	0.96 A	P	P	P
2/28/2011	0.91 A	-0.54 A	0.51 A	P	P	P
3/1/2011	2.53 A	-0.53 A	1.79 A	P	P	P
3/2/2011	1.83 A	0.98 A	1.37 A	P	P	P
3/3/2011	2.74 A	1.04 A	2.17 A	P	P	P
3/4/2011	2.52 A	1.70 A	2.19 A	P	P	P
3/5/2011	1.70 A	0.98 A	1.29 A	P	P	P
3/6/2011	1.61 A	-0.10 A	1.11 A	P	P	P
3/7/2011	1.73 A	-0.39 A	0.97 A	P	P	P
3/8/2011	2.61 A	1.69 A	2.10 A	P	P	P
3/9/2011	2.62 A	1.59 A	2.14 A	P	P	P
3/10/2011	2.00 A	0.90 A	1.54 A	P	P	P
3/11/2011	1.47 A	0.48 A	1.00 A	P	P	P
3/12/2011	1.56 A	0.53 A	1.25 A	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
3/13/2011	1.50 A	0.52 A	1.06 A	P	P	P
3/14/2011	2.56 A	1.07 A	1.95 A	P	P	P
3/15/2011	2.72 A	1.62 A	2.30 A	P	P	P
3/16/2011	1.62 A	0.82 A	1.24 A	P	P	P
3/17/2011	1.93 A	0.96 A	1.40 A	P	P	P
3/18/2011	1.23 A	0.69 A	0.92 A	P	P	P
3/19/2011	2.64 A	0.79 A	1.55 A	P	P	P
3/20/2011	2.52 A	1.46 A	2.07 A	P	P	P
3/21/2011	1.96 A	-0.05 A	0.96 A	P	P	P
3/22/2011	2.37 A	0.01 A	1.18 A	P	P	P
3/23/2011	2.19 A	0.35 A	1.33 A	P	P	P
3/24/2011	2.57 A	0.01 A	1.12 A	P	P	P
3/25/2011	2.58 A	1.77 A	2.16 A	P	P	P
3/26/2011	2.59 A	1.58 A	2.07 A	P	P	P
3/27/2011	3.10 A	2.55 A	2.90 A	P	P	P
3/28/2011	2.55 A	1.74 A	2.12 A	P	P	P
3/29/2011	2.04 A	1.40 A	1.69 A	P	P	P
3/30/2011	2.79 A	1.46 A	2.21 A	P	P	P
3/31/2011	2.55 A	1.13 A	1.75 A	P	P	P
4/1/2011	1.99 A	0.84 A	1.36 A	P	P	P
4/2/2011	1.78 A	0.19 A	1.07 A	P	P	P
4/3/2011	1.93 A	1.17 A	1.53 A	P	P	P
4/4/2011	1.47 A	0.14 A	0.89 A	P	P	P
4/5/2011	1.47 A	-0.88 A	0.27 A	P	P	P
4/6/2011	1.51 A	0.57 A	1.06 A	P	P	P
4/7/2011	1.15 A	0.57 A	0.81 A	P	P	P
4/8/2011	1.45 A	0.62 A	1.09 A	P	P	P
4/9/2011	2.16 A	0.64 A	1.57 A	P	P	P
4/10/2011	2.20 A	1.25 A	1.80 A	P	P	P
4/11/2011	1.71 A	0.44 A	1.13 A	P	P	P
4/12/2011	0.99 A	0.47 A	0.67 A	P	P	P
4/13/2011	1.19 A	0.58 A	0.90 A	P	P	P
4/14/2011	2.10 A	0.95 A	1.52 A	P	P	P
4/15/2011	2.47 A	1.47 A	2.06 A	P	P	P
4/16/2011	2.34 A	0.59 A	1.91 A	P	P	P
4/17/2011	1.56 A	-0.01 A	0.96 A	P	P	P
4/18/2011	1.86 A	0.90 A	1.34 A	P	P	P
4/19/2011	1.54 A	0.56 A	1.22 A	P	P	P
4/20/2011	1.26 A	0.48 A	0.83 A	P	P	P
4/21/2011	2.72 A	0.57 A	1.65 A	P	P	P
4/22/2011	2.66 A	2.04 A	2.41 A	P	P	P
4/23/2011	2.04 A	0.45 A	1.26 A	P	P	P
4/24/2011	1.36 A	0.42 A	0.87 A	P	P	P
4/25/2011	1.16 A	0.48 A	0.88 A	P	P	P
4/26/2011	1.30 A	0.47 A	0.93 A	P	P	P
4/27/2011	1.34 A	0.35 A	0.83 A	P	P	P
4/28/2011	1.39 A	-0.99 A	0.10 A	P	P	P
4/29/2011	0.92 A	-0.68 A	0.33 A	P	P	P
4/30/2011	2.22 A	0.57 A	1.30 A	P	P	P
5/1/2011	1.95 A	1.28 A	1.64 A	P	P	P
5/2/2011	1.85 A	0.37 A	1.19 A	P	P	P
5/3/2011	1.11 A	0.15 A	0.71 A	P	P	P
5/4/2011	1.71 A	-0.38 A	0.68 A	P	P	P
5/5/2011	1.73 A	0.57 A	1.14 A	P	P	P
5/6/2011	1.48 A	0.31 A	0.74 A	P	P	P
5/7/2011	1.63 A	0.68 A	1.05 A	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
5/8/2011	2.04 A	0.78 A	1.22 A	P	P	P
5/9/2011	1.92 A	0.94 A	1.26 A	P	P	P
5/10/2011	2.31 A	0.92 A	1.55 A	P	P	P
5/11/2011	2.39 A	1.60 A	2.09 A	P	P	P
5/12/2011	2.35 A	1.88 A	2.10 A	P	P	P
5/13/2011	2.22 A	1.80 A	1.97 A	P	P	P
5/14/2011	2.34 A	1.21 A	1.87 A	P	P	P
5/15/2011	2.13 A	1.06 A	1.62 A	P	P	P
5/16/2011	2.09 A	1.15 A	1.67 A	P	P	P
5/17/2011	2.14 A	1.16 A	1.89 A	P	P	P
5/18/2011	2.15 A	1.09 A	1.89 A	P	P	P
5/19/2011	1.90 A	1.09 A	1.62 A	P	P	P
5/20/2011	2.14 A	1.36 A	1.67 A	P	P	P
5/21/2011	2.11 A	1.02 A	1.71 A	P	P	P
5/22/2011	1.94 A	1.52 A	1.81 A	P	P	P
5/23/2011	1.79 A	0.62 A	1.25 A	P	P	P
5/24/2011	1.17 A	0.33 A	0.87 A	P	P	P
5/25/2011	1.96 A	0.82 A	1.38 A	P	P	P
5/26/2011	1.60 A	0.45 A	1.00 A	P	P	P
5/27/2011	1.56 A	0.83 A	1.14 A	P	P	P
5/28/2011	1.64 A	0.91 A	1.29 A	P	P	P
5/29/2011	1.58 A	0.80 A	1.19 A	P	P	P
5/30/2011	1.50 A	0.36 A	1.01 A	P	P	P
5/31/2011	2.23 A	0.36 A	1.20 A	P	P	P
6/1/2011	2.15 A	0.76 A	1.39 A	P	P	P
6/2/2011	1.79 A	0.21 A	0.95 A	P	P	P
6/3/2011	2.18 A	0.65 A	1.46 A	P	P	P
6/4/2011	1.79 A	0.78 A	1.32 A	P	P	P
6/5/2011	1.48 A	0.18 A	0.89 A	P	P	P
6/6/2011	1.70 A	1.03 A	1.39 A	P	P	P
6/7/2011	1.65 A	0.94 A	1.23 A	P	P	P
6/8/2011	1.28 A	0.29 A	0.75 A	P	P	P
6/9/2011	1.59 A	-0.05 A	0.57 A	P	P	P
6/10/2011	1.32 A	-0.11 A	0.59 A	P	P	P
6/11/2011	1.31 A	0.10 A	0.82 A	P	P	P
6/12/2011	1.52 A	0.07 A	0.81 A	P	P	P
6/13/2011	1.77 A	0.07 A	1.08 A	P	P	P
6/14/2011	1.85 A	1.10 A	1.46 A	P	P	P
6/15/2011	2.21 A	1.09 A	1.70 A	P	P	P
6/16/2011	2.23 A	0.92 A	1.74 A	P	P	P
6/17/2011	1.63 A	0.46 A	1.16 A	P	P	P
6/18/2011	1.54 A	0.14 A	1.13 A	P	P	P
6/19/2011	1.45 A	0.10 A	0.85 A	P	P	P
6/20/2011	2.14 A	0.47 A	1.35 A	P	P	P
6/21/2011	2.14 A	1.42 A	1.85 A	P	P	P
6/22/2011	1.88 A	0.84 A	1.40 A	P	P	P
6/23/2011	1.57 A	0.58 A	1.07 A	P	P	P
6/24/2011	1.42 A	-0.08 A	0.81 A	P	P	P
6/25/2011	1.35 A	-0.08 A	0.60 A	P	P	P
6/26/2011	1.87 A	0.64 A	1.50 A	P	P	P
6/27/2011	1.79 A	0.57 A	1.13 A	P	P	P
6/28/2011	1.57 A	-0.07 A	0.90 A	P	P	P
6/29/2011	1.73 A	-0.03 A	0.94 A	P	P	P
6/30/2011	2.12 A	1.19 A	1.58 A	P	P	P
7/1/2011	1.84 A	1.16 A	1.53 A	P	P	P
7/2/2011	1.82 A	0.90 A	1.39 A	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
7/3/2011	1.40 A	0.32 A	0.89 A	P	P	P
7/4/2011	1.16 A	-0.03 A	0.43 A	P	P	P
7/5/2011	1.66 A	-0.11 A	0.81 A	P	P	P
7/6/2011	1.26 A	0.22 A	0.85 A	P	P	P
7/7/2011	1.71 A	0.37 A	1.12 A	P	P	P
7/8/2011	1.55 A	0.22 A	0.99 A	P	P	P
7/9/2011	2.09 A	0.00 A	0.82 A	P	P	P
7/10/2011	2.05 A	1.29 A	1.69 A	P	P	P
7/11/2011	2.13 A	1.00 A	1.54 A	P	P	P
7/12/2011	1.32 A	0.35 A	0.88 A	P	P	P
7/13/2011	1.93 A	0.79 A	1.26 A	P	P	P
7/14/2011	2.41 A	0.85 A	1.87 A	P	P	P
7/15/2011	2.38 A	1.82 A	2.23 A	P	P	P
7/16/2011	2.18 A	1.61 A	1.88 A	P	P	P
7/17/2011	2.01 A	1.53 A	1.77 A	P	P	P
7/18/2011	1.97 A	1.33 A	1.59 A	P	P	P
7/19/2011	1.51 A	0.59 A	1.11 A	P	P	P
7/20/2011	1.57 A	0.56 A	1.13 A	P	P	P
7/21/2011	1.54 A	0.78 A	1.17 A	P	P	P
7/22/2011	1.25 A	0.11 A	0.83 A	P	P	P
7/23/2011	0.97 A	0.05 A	0.54 A	P	P	P
7/24/2011	0.99 A	0.31 A	0.64 A	P	P	P
7/25/2011	1.60 A	0.37 A	0.86 A	P	P	P
7/26/2011	1.71 A	0.83 A	1.19 A	P	P	P
7/27/2011	1.79 A	0.83 A	1.22 A	P	P	P
7/28/2011	1.84 A	0.80 A	1.36 A	P	P	P
7/29/2011	1.55 A	0.58 A	1.05 A	P	P	P
7/30/2011	2.05 A	0.58 A	1.40 A	P	P	P
7/31/2011	2.22 A	1.48 A	1.76 A	P	P	P
8/1/2011	1.91 A	0.92 A	1.53 A	P	P	P
8/2/2011	1.92 A	1.20 A	1.54 A	P	P	P
8/3/2011	1.71 A	0.86 A	1.35 A	P	P	P
8/4/2011	1.93 A	0.20 A	1.12 A	P	P	P
8/5/2011	2.40 A	1.56 A	2.19 A	P	P	P
8/6/2011	2.41 A	1.34 A	1.85 A	P	P	P
8/7/2011	1.70 A	0.69 A	1.11 A	P	P	P
8/8/2011	1.60 A	0.54 A	1.17 A	P	P	P
8/9/2011	1.63 A	0.57 A	1.28 A	P	P	P
8/10/2011	1.82 A	0.56 A	1.47 A	P	P	P
8/11/2011	2.06 A	1.14 A	1.54 A	P	P	P
8/12/2011	2.32 A	1.73 A	2.06 A	P	P	P
8/13/2011	2.20 A	1.31 A	1.85 A	P	P	P
8/14/2011	1.81 A	0.98 A	1.51 A	P	P	P
8/15/2011	1.90 A	0.90 A	1.42 A	P	P	P
8/16/2011	1.98 A	1.13 A	1.58 A	P	P	P
8/17/2011	2.33 A	1.31 A	1.95 A	P	P	P
8/18/2011	2.09 A	1.40 A	1.67 A	P	P	P
8/19/2011	1.99 A	1.17 A	1.60 A	P	P	P
8/20/2011	1.93 A	1.26 A	1.63 A	P	P	P
8/21/2011	1.66 A	0.81 A	1.37 A	P	P	P
8/22/2011	2.35 A	0.08 A	1.11 A	P	P	P
8/23/2011	2.39 A	1.93 A	2.16 A	P	P	P
8/24/2011	2.17 A	1.57 A	1.90 A	P	P	P
8/25/2011	1.77 A	1.19 A	1.45 A	P	P	P
8/26/2011	3.06 A	1.37 A	2.03 A	P	P	P
8/27/2011	6.03 A	3.06 A	5.07 A	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
8/28/2011	5.32 A	4.96 A	5.06 A	P	P	P
8/29/2011	5.45 A	5.09 A	5.27 A	P	P	P
8/30/2011	5.90 A	5.45 A	5.69 A	P	P	P
8/31/2011	6.05 A	5.90 A	5.99 A	P	P	P
9/1/2011	6.07 A	5.90 A	5.99 A	P	P	P
9/2/2011	5.90 A	5.41 A	5.67 A	P	P	P
9/3/2011	5.42 A	4.67 A	5.05 A	P	P	P
9/4/2011	4.67 A	3.68 A	4.15 A	P	P	P
9/5/2011	3.68 A	2.59 A	3.13 A	P	P	P
9/6/2011	2.59 A	2.05 A	2.29 A	P	P	P
9/7/2011	2.30 A	1.97 A	2.13 A	P	P	P
9/8/2011	2.41 A	1.89 A	2.16 A	P	P	P
9/9/2011	2.17 A	1.64 A	1.90 A	P	P	P
9/10/2011	2.09 A	1.52 A	1.84 A	P	P	P
9/11/2011	2.28 A	1.48 A	1.83 A	P	P	P
9/12/2011	2.50 A	1.53 A	1.97 A	P	P	P
9/13/2011	2.36 A	1.75 A	2.09 A	P	P	P
9/14/2011	2.31 A	1.77 A	1.97 A	P	P	P
9/15/2011	1.99 A	1.15 A	1.77 A	P	P	P
9/16/2011	3.08 A	0.77 A	2.57 A	P	P	P
9/17/2011	3.21 A	2.80 A	3.02 A	P	P	P
9/18/2011	3.29 A	2.54 A	2.87 A	P	P	P
9/19/2011	2.94 A	2.44 A	2.65 A	P	P	P
9/20/2011	2.94 A	2.11 A	2.40 A	P	P	P
9/21/2011	2.37 A	1.94 A	2.14 A	P	P	P
9/22/2011	2.29 A	1.68 A	1.96 A	P	P	P
9/23/2011	2.38 A	1.33 A	1.92 A	P	P	P
9/24/2011	2.40 A	1.80 A	2.13 A	P	P	P
9/25/2011	2.71 A	1.98 A	2.39 A	P	P	P
9/26/2011	2.52 A	2.25 A	2.40 A	P	P	P
9/27/2011	2.49 A	2.15 A	2.31 A	P	P	P
9/28/2011	2.56 A	2.06 A	2.25 A	P	P	P
9/29/2011	2.43 A	1.58 A	2.08 A	P	P	P
9/30/2011	2.43 A	1.63 A	2.07 A	P	P	P
10/1/2011	1.93 P	1.47 P	1.72 P	P	P	P
10/2/2011	1.90 P	1.37 P	1.67 P	P	P	P
10/3/2011	2.20 P	0.96 P	1.68 P	P	P	P
10/4/2011	2.27 P	1.13 P	1.69 P	P	P	P
10/5/2011	2.08 P	1.46 P	1.76 P	P	P	P
10/6/2011	2.79 P	1.55 P	2.07 P	P	P	P
10/7/2011	2.79 P	2.09 P	2.36 P	P	P	P
10/8/2011	2.65 P	1.69 P	2.22 P	P	P	P
10/9/2011	2.69 P	2.32 P	2.47 P	P	P	P
10/10/2011	2.37 P	2.09 P	2.21 P	P	P	P
10/11/2011	2.97 P	1.89 P	2.38 P	P	P	P
10/12/2011	2.92 P	1.91 P	2.31 P	P	P	P
10/13/2011	2.45 P	1.63 P	2.04 P	P	P	P
10/14/2011	2.25 P	0.87 P	1.69 P	P	P	P
10/15/2011	2.20 P	1.46 P	1.80 P	P	P	P
10/16/2011	2.05 P	1.44 P	1.90 P	P	P	P
10/17/2011	1.80 P	0.62 P	1.20 P	P	P	P
10/18/2011	2.05 P	1.02 P	1.50 P	P	P	P
10/19/2011	2.40 P	1.06 P	1.80 P	P	P	P
10/20/2011	1.32 P	-0.16 P	0.53 P	P	P	P
10/21/2011	1.96 P	0.83 P	1.36 P	P	P	P
10/22/2011	2.17 P	1.45 P	1.81 P	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
10/23/2011	2.20 P	1.93 P	2.05 P	P	P	P
10/24/2011	2.19 P	1.49 P	1.90 P	P	P	P
10/25/2011	2.41 P	1.07 P	1.78 P	P	P	P
10/26/2011	1.92 P	1.08 P	1.44 P	P	P	P
10/27/2011	1.49 P	0.58 P	0.95 P	P	P	P
10/28/2011	2.58 P	0.73 P	1.87 P	P	P	P
10/29/2011	2.41 P	0.26 P	1.40 P	P	P	P
10/30/2011	2.53 P	1.42 P	2.00 P	P	P	P
10/31/2011	2.70 P	1.90 P	2.33 P	P	P	P
11/1/2011	2.42 P	1.47 P	1.94 P	P	P	P
11/2/2011	2.49 P	2.03 P	2.23 P	P	P	P
11/3/2011	2.42 P	1.75 P	2.06 P	P	P	P
11/4/2011	3.24 P	1.85 P	2.47 P	P	P	P
11/5/2011	3.94 P	3.24 P	3.70 P	P	P	P
11/6/2011	3.60 P	2.81 P	3.10 P	P	P	P
11/7/2011	2.81 P	2.39 P	2.51 P	P	P	P
11/8/2011	2.42 P	1.97 P	2.12 P	P	P	P
11/9/2011	2.19 P	1.88 P	2.09 P	P	P	P
11/10/2011	2.04 P	1.24 P	1.82 P	P	P	P
11/11/2011	2.30 P	0.89 P	1.69 P	P	P	P
11/12/2011	1.76 P	1.07 P	1.55 P	P	P	P
11/13/2011	1.57 P	1.14 P	1.36 P	P	P	P
11/14/2011	1.39 P	0.90 P	1.16 P	P	P	P
11/15/2011	1.30 P	0.58 P	0.90 P	P	P	P
11/16/2011	1.16 P	0.21 P	0.80 P	P	P	P
11/17/2011	1.63 P	0.07 P	0.92 P	P	P	P
11/18/2011	1.81 P	0.37 P	1.33 P	P	P	P
11/19/2011	1.66 P	0.99 P	1.35 P	P	P	P
11/20/2011	1.23 P	0.73 P	0.97 P	P	P	P
11/21/2011	1.15 P	0.68 P	0.85 P	P	P	P
11/22/2011	1.46 P	0.76 P	1.09 P	P	P	P
11/23/2011	1.34 P	-0.23 P	0.49 P	P	P	P
11/24/2011	1.78 P	0.27 P	1.44 P	P	P	P
11/25/2011	1.62 P	0.84 P	1.34 P	P	P	P
11/26/2011	1.55 P	0.84 P	1.18 P	P	P	P
11/27/2011	1.65 P	1.04 P	1.36 P	P	P	P
11/28/2011	1.68 P	1.12 P	1.40 P	P	P	P
11/29/2011	1.89 P	0.41 P	1.32 P	P	P	P
11/30/2011	1.37 P	0.03 P	0.79 P	P	P	P
12/1/2011	1.92 P	0.96 P	1.47 P	P	P	P
12/2/2011	1.59 P	1.15 P	1.37 P	P	P	P
12/3/2011	2.23 P	1.11 P	1.67 P	P	P	P
12/4/2011	1.82 P	1.26 P	1.51 P	P	P	P
12/5/2011	1.70 P	1.19 P	1.45 P	P	P	P
12/6/2011	1.67 P	1.13 P	1.38 P	P	P	P
12/7/2011	1.56 P	-0.12 P	1.12 P	P	P	P
12/8/2011	1.73 P	-1.15 P	0.82 P	P	P	P
12/9/2011	1.99 P	0.98 P	1.53 P	P	P	P
12/10/2011	2.04 P	1.09 P	1.54 P	P	P	P
12/11/2011	2.37 P	1.71 P	2.10 P	P	P	P
12/12/2011	2.18 P	1.40 P	1.77 P	P	P	P
12/13/2011	1.78 P	1.23 P	1.54 P	P	P	P
12/14/2011	1.81 P	1.28 P	1.51 P	P	P	P
12/15/2011	1.43 P	0.95 P	1.28 P	P	P	P
12/16/2011	2.31 P	0.72 P	1.19 P	P	P	P
12/17/2011	2.31 P	1.32 P	1.58 P	P	P	P

Table B-1
Swift Creek at Highway 43 Gage Height and Discharge Measurements

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC

Date	Maximum Gage Height (feet)	Minimum Gage Height (feet)	Mean Gage Height (feet)	Maximum Discharge (cfs)	Minimum Discharge (cfs)	Mean Discharge (cfs)
12/18/2011	1.81 P	1.14 P	1.45 P	P	P	P
12/19/2011	1.77 P	0.89 P	1.32 P	P	P	P
12/20/2011	1.45 P	0.77 P	1.10 P	P	P	P
12/21/2011	1.54 P	0.48 P	1.06 P	P	P	P
12/22/2011	1.43 P	0.57 P	1.07 P	P	P	P
12/23/2011	1.81 P	-0.22 P	1.11 P	P	P	P
12/24/2011	1.80 P	0.95 P	1.35 P	P	P	P
12/25/2011	1.83 P	0.76 P	1.32 P	P	P	P
12/26/2011	1.95 P	0.11 P	1.06 P	P	P	P

Station ID: USGS 0209205053 SWIFT CREEK AT HWY 43 NR STREETS FERRY, NC
Data Source: http://waterdata.usgs.gov/nwis/nwisman/?site_no=0209205053&agency_cd=USGS;
http://waterdata.usgs.gov/nwis/dv?cb_all_00065_00060_00055_00060=on&
format=html&begin_date=2001-01-01&end_date=2011-12-26&
site_no=0209205053&referred_module=sw;
and http://wdr.water.usgs.gov/wy2010/pdfs/0209205053.2010.pdf

Data Qualifier Explanation

A	Approved for publication -- Processing and review completed.
P	Provisional data subject to revision.
e	Value has been estimated.

Note: The 1/22/2001 to 1/24/2001 data are questionable. This gage height is not mentioned as the maximum height at this station in any USGS reports.
Datum of gage is at National Geodetic Vertical Datum of 1929

Table B-2
Precipitation and Air Temperature
at New Bern Airport

Month	Precipitation at New Bern (in)	Average Air Temperature (°F)	(°C)
Jan-2000	4.85	41.5	5.3
Feb-2000	2.15	47.9	8.8
Mar-2000	3.11	55.3	12.9
Apr-2000	5.42	59.4	15.2
May-2000	2.75	71.2	21.8
Jun-2000	4.41	77.1	25.1
Jul-2000	6.73	76.9	24.9
Aug-2000	8.34	76.9	24.9
Sep-2000	7.84	72.4	22.4
Oct-2000	0.23	61.7	16.5
Nov-2000	3.30	50.2	10.1
Dec-2000	2.77	39.3	4.1
Jan-2001	1.46	42.7	5.9
Feb-2001	2.83	49.0	9.4
Mar-2001	4.41	50.1	10.1
Apr-2001	1.99	61.2	16.2
May-2001	3.11	68.2	20.1
Jun-2001	6.83	76.9	24.9
Jul-2001	6.04	76.5	24.7
Aug-2001	5.67	78.0	25.6
Sep-2001	2.47	70.2	21.2
Oct-2001	1.00	61.3	16.3
Nov-2001	1.56	57.5	14.2
Dec-2001	1.57	51.7	10.9
Jan-2002	5.47	46.1	7.8
Feb-2002	2.19	48.1	8.9
Mar-2002	5.15	54.2	12.3
Apr-2002	2.44	64.8	18.2
May-2002	2.75	67.8	19.9
Jun-2002	3.67	76.6	24.8
Jul-2002	6.29	80.1	26.7
Aug-2002	5.92	79.1	26.2
Sep-2002	5.75	75.0	23.9
Oct-2002	4.54	65.4	18.6
Nov-2002	4.77	51.8	11.0
Dec-2002	3.31	43.3	6.3
Jan-2003	2.00	38.8	3.8
Feb-2003	4.90	44.2	6.8
Mar-2003	6.43	55.2	12.9
Apr-2003	6.21	60.0	15.6
May-2003	9.35	68.1	20.1
Jun-2003	5.03	75.8	24.3
Jul-2003	8.37	79.4	26.3
Aug-2003	7.42	79.3	26.3
Sep-2003	6.16	72.8	22.7
Oct-2003	5.27	61.9	16.6
Nov-2003	2.35	59.1	15.1
Dec-2003	5.74	43.9	6.6
Jan-2004	1.65	40.2	4.6
Feb-2004	4.14	43.1	6.2

Table B-2
Precipitation and Air Temperature
at New Bern Airport

Month	Precipitation at New Bern (in)	Average Air Temperature (°F)	(°C)
Mar-2004	2.07	53.2	11.8
Apr-2004	3.39	61.3	16.3
May-2004	3.76	73.1	22.8
Jun-2004	5.84	77.1	25.1
Jul-2004	5.04	80.1	26.7
Aug-2004	10.39	76.4	24.7
Sep-2004	5.75	73.6	23.1
Oct-2004	1.62	63.5	17.5
Nov-2004	3.63	55.1	12.8
Dec-2004	2.29	45.3	7.4
Jan-2005	2.60	45.4	7.4
Feb-2005	2.37	45.4	7.4
Mar-2005	3.80	49.1	9.5
Apr-2005	3.99	59.7	15.4
May-2005	6.24	65.1	18.4
Jun-2005	5.37	75.8	24.3
Jul-2005	7.26	81.6	27.6
Aug-2005	3.76	80.4	26.9
Sep-2005	5.33	76.5	24.7
Oct-2005	10.38	64.8	18.2
Nov-2005	2.89	55.7	13.2
Dec-2005	4.48	43.4	6.3
Jan-2006	3.04	49.3	9.6
Feb-2006	1.76	44.3	6.8
Mar-2006	1.85	51.3	10.7
Apr-2006	3.50	63.1	17.3
May-2006	4.03	66.5	19.2
Jun-2006	6.86	74.9	23.8
Jul-2006	4.47	79.6	26.4
Aug-2006	5.74	79.7	26.5
Sep-2006	7.49	70.5	21.4
Oct-2006	4.22	61.1	16.2
Nov-2006	8.01	55.4	13.0
Dec-2006	3.72	50.4	10.2
Jan-2007	3.98	48.1	8.9
Feb-2007	2.26	41.7	5.4
Mar-2007	1.98	54.9	12.7
Apr-2007	3.55	59.8	15.4
May-2007	2.78	67.5	19.7
Jun-2007	3.89	75.8	24.3
Jul-2007	5.86	77.9	25.5
Aug-2007	2.55	80.9	27.2
Sep-2007	3.77	74.3	23.5
Oct-2007	4.17	69.0	20.6
Nov-2007	1.17	52.8	11.6
Dec-2007	4.47	50.6	10.3
Jan-2008	2.26	44.5	6.9
Feb-2008	4.32	50.3	10.2
Mar-2008	3.22	54.0	12.2
Apr-2008	6.41	61.5	16.4

Table B-2
Precipitation and Air Temperature
at New Bern Airport

Month	Precipitation at New Bern (in)	Average Air Temperature (°F)	(°C)
May-2008	2.85	66.6	19.2
Jun-2008	1.42	79.5	26.4
Jul-2008	5.16	79.0	26.1
Aug-2008	4.08	77.8	25.4
Sep-2008	5.72	74.3	23.5
Oct-2008	2.46	60.7	15.9
Nov-2008	4.88	51.0	10.6
Dec-2008	3.63	50.2	10.1
Jan-2009	2.36	42.2	5.7
Feb-2009	1.72	45.1	7.3
Mar-2009	4.45	51.2	10.7
Apr-2009	2.20	61.6	16.4
May-2009	5.46	70.4	21.3
Jun-2009	4.59	77.2	25.1
Jul-2009	4.60	77.9	25.5
Aug-2009	6.23	79.8	26.6
Sep-2009	5.27	71.9	22.2
Oct-2009	2.23	62.2	16.8
Nov-2009	8.11	56.6	13.7
Dec-2009	6.83	45.8	7.7
Jan-2010	4.59	40.1	4.5
Feb-2010	3.56	40.1	4.5
Mar-2010	4.18	52.3	11.3
Apr-2010	0.94	63.3	17.4
May-2010	3.07	71.9	22.2
Jun-2010	3.98	81.3	27.4
Jul-2010	4.51	80.7	27.1
Aug-2010	5.90	80.2	26.8
Sep-2010	10.55	75.3	24.1
Oct-2010	3.24	63.7	17.6
Nov-2010	1.20	52.8	11.6
Dec-2010	3.25	36.6	2.6
Jan-2011	3.03	38.9	3.8
Feb-2011	2.89	47.5	8.6
Mar-2011	3.56	52.8	11.6
Apr-2011	2.95	63.9	17.7
May-2011	1.01	69.9	21.1
Jun-2011	2.68	78.8	26.0
Jul-2011	3.38	81.9	27.7
Aug-2011	14.57	80.2	26.8
Sep-2011	4.1	74.3	23.5
Oct-2011	2.7	61.1	16.2

Data Source:
STATE CLIMATE OFFICE OF NORTH CAROLINA
NC CRONOS Database
DIVISIONAL DATA RETRIEVAL FOR THE CENTRAL COASTAL PLAINS OI
http://www.nc-climate.ncsu.edu/climate/climdiv.php

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_ASKIN	01/29/1997 / 10:59	0.3	7.8	6.8	11	11.9	8.3	40	0.04	0.83	---	0.59
SWCR_ASKIN	01/29/1997 / 11:00	3.3	8.4	7	136	9.9	---	---	---	---	---	---
SWCR_ASKIN	01/29/1997 / 11:01	6.6	8.3	7	138	9.5	---	---	---	---	---	---
SWCR_ASKIN	01/29/1997 / 11:02	9.8	8.3	7	135	9.4	---	---	---	---	---	---
SWCR_ASKIN	01/29/1997 / 11:03	12.1	8.3	6.9	130	9.4	---	---	---	---	---	---
SWCR_ASKIN	02/26/1997 / 12:45	0.3	12	6.9	139	8.1	9	55	0.04	0.79	---	0.56
SWCR_ASKIN	02/26/1997 / 12:46	3.3	11.9	6.8	150	7.9	---	---	---	---	---	---
SWCR_ASKIN	02/26/1997 / 12:47	6.6	11.9	6.7	150	7.7	---	---	---	---	---	---
SWCR_ASKIN	02/26/1997 / 12:48	9.8	11.8	6.7	136	7.7	---	---	---	---	---	---
SWCR_ASKIN	02/26/1997 / 12:49	13.1	11.8	6.6	121	7.6	---	---	---	---	---	---
SWCR_ASKIN	02/26/1997 / 12:50	14.8	11.7	6.6	134	7.6	---	---	---	---	---	---
SWCR_ASKIN	03/25/1997 / 13:20	0.3	15	6.7	149	7.5	6.8	33	0.03	0.52	---	0.92
SWCR_ASKIN	03/25/1997 / 13:21	3.3	14.2	6.7	147	7.4	---	---	---	---	---	---
SWCR_ASKIN	03/25/1997 / 13:22	6.6	13.7	6.6	141	7.3	---	---	---	---	---	---
SWCR_ASKIN	03/25/1997 / 13:23	9.8	13.6	6.6	150	7.1	---	---	---	---	---	---
SWCR_ASKIN	03/25/1997 / 13:24	13.1	13.5	6.6	139	7	---	---	---	---	---	---
SWCR_ASKIN	03/25/1997 / 13:25	16.4	13.5	6.5	162	7	---	---	---	---	---	---
SWCR_ASKIN	03/25/1997 / 13:26	19.7	13.5	6.5	142	7	---	---	---	---	---	---
SWCR_ASKIN	04/15/1997 / 12:40	0.3	18.3	7.6	174	10.8	3.7	45	0.02	0.8	---	1.2
SWCR_ASKIN	04/15/1997 / 12:41	3.3	17.8	7.6	172	10.8	---	---	---	---	---	---
SWCR_ASKIN	04/15/1997 / 12:42	6.6	17.4	7.5	175	9.4	---	---	---	---	---	---
SWCR_ASKIN	04/15/1997 / 12:43	9.8	17.6	7.4	170	9.7	---	---	---	---	---	---
SWCR_ASKIN	04/15/1997 / 12:44	13.1	17.3	7.4	170	9.3	---	---	---	---	---	---
SWCR_ASKIN	04/15/1997 / 12:45	16.4	17.3	7.4	176	9.3	---	---	---	---	---	---
SWCR_ASKIN	04/15/1997 / 12:46	19.7	17.3	7.4	170	9.3	---	---	---	---	---	---
SWCR_ASKIN	05/19/1997 / 13:00	0.3	22.4	7.9	134	11.8	4.6	47	<0.01	0.34	---	0.69
SWCR_ASKIN	05/19/1997 / 13:01	3.3	21.7	7.8	134	11.2	---	---	---	---	---	---
SWCR_ASKIN	05/19/1997 / 13:02	6.6	20.6	7.5	147	7.6	---	---	---	---	---	---
SWCR_ASKIN	05/19/1997 / 13:03	9.8	19.1	7.2	147	[4.8]	---	---	---	---	---	---
SWCR_ASKIN	06/17/1997 / 13:50	0.3	25	6.8	143	7.1	5.4	32	0.01	0.55	---	0.73
SWCR_ASKIN	06/17/1997 / 13:51	3.3	23.6	6.7	149	6.8	---	---	---	---	---	---
SWCR_ASKIN	06/17/1997 / 13:52	6.6	22.9	6.6	157	6.2	---	---	---	---	---	---
SWCR_ASKIN	06/17/1997 / 13:53	9.8	22.3	6.5	159	5.6	---	---	---	---	---	---
SWCR_ASKIN	06/17/1997 / 13:54	13.1	21.9	6.5	157	5	---	---	---	---	---	---
SWCR_ASKIN	06/17/1997 / 13:55	16.4	21.8	6.5	161	[4.5]	---	---	---	---	---	---
SWCR_ASKIN	07/15/1997 / 14:00	0.3	---	---	---	---	5.6	42	<0.01	0.54	---	0.55
SWCR_ASKIN	08/12/1997 / 14:40	0.3	29.6	7.1	174	11.1	6.6	52	0.04	0.54	---	1.1
SWCR_ASKIN	08/12/1997 / 14:41	3.3	26.8	6.9	167	7.9	---	---	---	---	---	---
SWCR_ASKIN	08/12/1997 / 14:42	6.6	26.2	6.9	165	5.5	---	---	---	---	---	---
SWCR_ASKIN	08/12/1997 / 14:43	9.8	25.7	6.6	160	[4.7]	---	---	---	---	---	---
SWCR_ASKIN	08/12/1997 / 14:44	13.1	24	6.4	147	[1.5]	---	---	---	---	---	---
SWCR_ASKIN	08/12/1997 / 14:45	14.8	24	6.3	148	[1.3]	---	---	---	---	---	---
SWCR_ASKIN	09/09/1997 / 12:20	0.3	27	7.2	321	7.4	3.6	46	0.07	0.72	---	0.63
SWCR_ASKIN	09/09/1997 / 12:21	3.3	26	7	325	6.4	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_ASKIN	01/29/1997 / 10:59	0.3	---	0.32	<0.01	<0.002	<0.025	[0.038]	<0.01	<0.0002	<0.01	0.026
SWCR_ASKIN	01/29/1997 / 11:00	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/29/1997 / 11:01	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/29/1997 / 11:02	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/29/1997 / 11:03	12.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/26/1997 / 12:45	0.3	---	0.3	<0.01	<0.002	<0.025	[0.003]	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	02/26/1997 / 12:46	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/26/1997 / 12:47	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/26/1997 / 12:48	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/26/1997 / 12:49	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/26/1997 / 12:50	14.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/25/1997 / 13:20	0.3	---	0.41	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	0.027
SWCR_ASKIN	03/25/1997 / 13:21	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/25/1997 / 13:22	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/25/1997 / 13:23	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/25/1997 / 13:24	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/25/1997 / 13:25	16.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/25/1997 / 13:26	19.7	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/15/1997 / 12:40	0.3	0.037	0.14	<0.01	<0.002	<0.025	[0.003]	<0.01	<0.0002	<0.01	0.017
SWCR_ASKIN	04/15/1997 / 12:41	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/15/1997 / 12:42	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/15/1997 / 12:43	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/15/1997 / 12:44	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/15/1997 / 12:45	16.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/15/1997 / 12:46	19.7	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/19/1997 / 13:00	0.3	---	0.15	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	05/19/1997 / 13:01	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/19/1997 / 13:02	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/19/1997 / 13:03	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/17/1997 / 13:50	0.3	---	0.12	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	06/17/1997 / 13:51	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/17/1997 / 13:52	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/17/1997 / 13:53	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/17/1997 / 13:54	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/17/1997 / 13:55	16.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/15/1997 / 14:00	0.3	---	0.22	<0.01	<0.002	<0.025	[0.0031]	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	08/12/1997 / 14:40	0.3	---	0.37	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	0.026
SWCR_ASKIN	08/12/1997 / 14:41	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/12/1997 / 14:42	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/12/1997 / 14:43	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/12/1997 / 14:44	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/12/1997 / 14:45	14.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/09/1997 / 12:20	0.3	---	0.22	<0.01	<0.002	<0.025	[0.0032]	<0.01	<0.0002	<0.01	[0.098]
SWCR_ASKIN	09/09/1997 / 12:21	3.3	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_ASKIN	09/09/1997 / 12:22	6.6	25.5	6.9	352	5.9	---	---	---	---	---	---
SWCR_ASKIN	09/09/1997 / 12:23	9.8	25	6.7	571	[4.3]	---	---	---	---	---	---
SWCR_ASKIN	09/09/1997 / 12:24	13.1	24.3	6.6	744	[2.2]	---	---	---	---	---	---
SWCR_ASKIN	09/09/1997 / 12:25	15.4	24.2	6.5	749	[2.1]	---	---	---	---	---	---
SWCR_ASKIN	10/09/1997 / 13:56	0.3	---	---	---	---	3.4	42	0.03	0.52	---	0.76
SWCR_ASKIN	11/04/1997 / 12:56	0.3	---	---	---	---	2.9	50	0.04	0.57	---	0.52
SWCR_ASKIN	11/12/1997 / 11:34	0.3	---	---	---	---	6.5	48	0.02	0.78	---	0.73
SWCR_ASKIN	12/29/1997 / 12:35	0.3	---	---	---	---	13	44	0.15	0.85	---	1
SWCR_ASKIN	01/13/1998 / 11:50	0.3	13.1	6.7	130	5.7	24	46	0.06	0.79	---	0.69
SWCR_ASKIN	01/13/1998 / 11:51	3.3	13	6.7	129	5.6	---	---	---	---	---	---
SWCR_ASKIN	01/13/1998 / 11:52	6.6	13	6.6	129	5.5	---	---	---	---	---	---
SWCR_ASKIN	01/13/1998 / 11:53	9.8	12.9	6.6	129	5.6	---	---	---	---	---	---
SWCR_ASKIN	01/13/1998 / 11:54	11.2	12.9	6.6	129	5.4	---	---	---	---	---	---
SWCR_ASKIN	02/10/1998 / 11:20	0.3	8.7	6.2	40	7.1	16	24	0.03	0.52	---	0.6
SWCR_ASKIN	02/10/1998 / 11:21	3.3	8	6	40	6.7	---	---	---	---	---	---
SWCR_ASKIN	02/10/1998 / 11:22	6.6	8	5.9	40	6.7	---	---	---	---	---	---
SWCR_ASKIN	02/10/1998 / 11:23	9.8	8	5.9	40	6.7	---	---	---	---	---	---
SWCR_ASKIN	02/10/1998 / 11:24	13.1	8	5.9	40	6.6	---	---	---	---	---	---
SWCR_ASKIN	02/10/1998 / 11:25	16.4	8	5.9	40	6.6	---	---	---	---	---	---
SWCR_ASKIN	02/10/1998 / 11:26	19	8	5.9	40	6.6	---	---	---	---	---	---
SWCR_ASKIN	03/10/1998 / 11:46	0.3	14.7	6.6	104	7.2	5.6	40	0.07	0.59	---	0.61
SWCR_ASKIN	03/10/1998 / 11:47	3.3	14.6	6.5	104	7.1	---	---	---	---	---	---
SWCR_ASKIN	03/10/1998 / 11:48	6.6	14.6	6.5	104	7	---	---	---	---	---	---
SWCR_ASKIN	03/10/1998 / 11:49	9.8	14.5	6.4	104	6.9	---	---	---	---	---	---
SWCR_ASKIN	03/10/1998 / 11:50	13.1	14.5	6.5	104	7	---	---	---	---	---	---
SWCR_ASKIN	04/07/1998 / 11:20	0.3	16	6.5	79	5.8	11	40	0.01	0.39	---	0.91
SWCR_ASKIN	04/07/1998 / 11:21	3.3	15.3	6.4	78	5.6	---	---	---	---	---	---
SWCR_ASKIN	04/07/1998 / 11:22	6.6	15.3	6.4	78	5.6	---	---	---	---	---	---
SWCR_ASKIN	04/07/1998 / 11:23	9.8	15.2	6.4	77	5.4	---	---	---	---	---	---
SWCR_ASKIN	04/07/1998 / 11:24	13.1	15.2	6.4	78	5.5	---	---	---	---	---	---
SWCR_ASKIN	05/06/1998 / 12:02	0.3	19.7	6.5	112	[3.9]	4.6	40	0.04	0.29	---	1.4
SWCR_ASKIN	05/06/1998 / 12:03	3.3	18.7	6.4	110	[3.5]	---	---	---	---	---	---
SWCR_ASKIN	05/06/1998 / 12:04	6.6	18.5	6.4	110	[3.4]	---	---	---	---	---	---
SWCR_ASKIN	05/06/1998 / 12:05	9.8	18.4	6.4	110	[3.4]	---	---	---	---	---	---
SWCR_ASKIN	05/06/1998 / 12:06	13.1	18.5	6.4	111	[3.3]	---	---	---	---	---	---
SWCR_ASKIN	06/02/1998 / 12:10	0.3	25.8	6.5	104	[4.8]	13	26	0.06	0.7	---	1.3
SWCR_ASKIN	06/02/1998 / 12:11	3.3	25	6.4	104	[4.1]	---	---	---	---	---	---
SWCR_ASKIN	06/02/1998 / 12:12	6.6	24.9	6.3	103	[3.9]	---	---	---	---	---	---
SWCR_ASKIN	06/02/1998 / 12:13	9.8	24.9	6.3	103	[3.7]	---	---	---	---	---	---
SWCR_ASKIN	06/02/1998 / 12:14	13.1	24.9	6.3	103	[3.7]	---	---	---	---	---	---
SWCR_ASKIN	06/02/1998 / 12:15	14.8	24.9	6.3	103	[3.6]	---	---	---	---	---	---
SWCR_ASKIN	06/30/1998 / 14:20	0.3	---	---	---	---	6.5	52	<0.01	0.62	---	1.1
SWCR_ASKIN	07/30/1998 / 13:15	0.3	---	---	---	---	4.4	40	<0.01	0.55	---	0.79
SWCR_ASKIN	08/25/1998 / 13:05	0.3	29.1	7.6	148	7.4	---	40	<0.01	0.35	---	0.88

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_ASKIN	09/09/1997 / 12:22	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/09/1997 / 12:23	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/09/1997 / 12:24	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/09/1997 / 12:25	15.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/09/1997 / 13:56	0.3	---	0.33	<0.01	<0.002	<0.025	[0.0039]	<0.01	<0.0002	<0.01	0.021
SWCR_ASKIN	11/04/1997 / 12:56	0.3	---	0.19	<0.01	<0.002	<0.025	[0.0061]	<0.01	<0.0002	<0.01	0.024
SWCR_ASKIN	11/12/1997 / 11:34	0.3	---	0.57	<0.01	<0.002	<0.025	[0.003]	<0.01	<0.0002	<0.01	0.012
SWCR_ASKIN	12/29/1997 / 12:35	0.3	---	0.62	<0.01	<0.002	<0.025	[0.0076]	<0.01	<0.0002	<0.01	0.015
SWCR_ASKIN	01/13/1998 / 11:50	0.3	---	0.61	<0.01	<0.002	<0.025	0.0023	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	01/13/1998 / 11:51	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/13/1998 / 11:52	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/13/1998 / 11:53	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/13/1998 / 11:54	11.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/10/1998 / 11:20	0.3	---	1.2	<0.01	<0.002	<0.025	0.0024	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	02/10/1998 / 11:21	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/10/1998 / 11:22	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/10/1998 / 11:23	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/10/1998 / 11:24	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/10/1998 / 11:25	16.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/10/1998 / 11:26	19	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/10/1998 / 11:46	0.3	---	0.39	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	03/10/1998 / 11:47	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/10/1998 / 11:48	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/10/1998 / 11:49	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/10/1998 / 11:50	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/07/1998 / 11:20	0.3	---	0.74	<0.01	<0.002	<0.025	0.0024	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	04/07/1998 / 11:21	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/07/1998 / 11:22	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/07/1998 / 11:23	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/07/1998 / 11:24	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/06/1998 / 12:02	0.3	---	0.32	<0.01	<0.002	<0.025	0.0022	<0.01	<0.0002	<0.01	0.011
SWCR_ASKIN	05/06/1998 / 12:03	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/06/1998 / 12:04	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/06/1998 / 12:05	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/06/1998 / 12:06	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/02/1998 / 12:10	0.3	---	1.2	<0.01	<0.002	<0.025	[0.013]	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	06/02/1998 / 12:11	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/02/1998 / 12:12	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/02/1998 / 12:13	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/02/1998 / 12:14	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/02/1998 / 12:15	14.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/30/1998 / 14:20	0.3	---	0.4	<0.01	<0.002	<0.025	0.0022	<0.01	<0.0002	<0.01	0.026
SWCR_ASKIN	07/30/1998 / 13:15	0.3	---	0.27	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	0.025
SWCR_ASKIN	08/25/1998 / 13:05	0.3	---	0.43	<0.01	<0.002	<0.025	[0.0071]	<0.01	<0.0002	<0.01	0.054

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_ASKIN	08/25/1998 / 13:06	3.3	28.1	7.4	146	6.2	---	---	---	---	---	---
SWCR_ASKIN	08/25/1998 / 13:07	6.6	27.6	7.2	142	5.3	---	---	---	---	---	---
SWCR_ASKIN	08/25/1998 / 13:08	9.8	26.3	7.1	134	[2.4]	---	---	---	---	---	---
SWCR_ASKIN	08/25/1998 / 13:09	13.1	26.3	6.9	134	[1.8]	---	---	---	---	---	---
SWCR_ASKIN	08/25/1998 / 13:10	15.7	26.2	6.9	135	[1.7]	---	---	---	---	---	---
SWCR_ASKIN	09/23/1998 / 12:35	0.3	---	---	---	---	3.8	44J	<0.01	0.52	---	1.5
SWCR_ASKIN	10/21/1998 / 10:51	0.3	---	---	---	---	2.4	61	0.08	0.15	---	0.86
SWCR_ASKIN	11/17/1998 / 10:50	0.3	---	---	---	---	1.4	84	0.09	0.12	---	0.58
SWCR_ASKIN	12/17/1998 / 11:01	0.3	---	---	---	---	1.3	100	<0.01	0.11	---	0.46
SWCR_ASKIN	01/13/1999 / 11:30	0.3	7.4	6.9	121	9.7	6.9	57	0.01	1.3	---	0.35
SWCR_ASKIN	01/13/1999 / 11:31	3.3	6.4	6.9	122	9	---	---	---	---	---	---
SWCR_ASKIN	01/13/1999 / 11:32	6.6	6.1	6.8	121	8.9	---	---	---	---	---	---
SWCR_ASKIN	01/13/1999 / 11:33	9.8	6.1	6.8	121	8.9	---	---	---	---	---	---
SWCR_ASKIN	01/13/1999 / 11:34	13.1	6	6.7	122	8.9	---	---	---	---	---	---
SWCR_ASKIN	02/09/1999 / 11:55	0.3	11.8	7	108	9.5	14	37	0.08	0.68	---	0.8
SWCR_ASKIN	02/09/1999 / 11:56	3.3	11.5	7	108	8.3	---	---	---	---	---	---
SWCR_ASKIN	02/09/1999 / 11:57	6.6	11.5	6.9	108	7.9	---	---	---	---	---	---
SWCR_ASKIN	02/09/1999 / 11:58	9.8	11.5	6.9	108	7.8	---	---	---	---	---	---
SWCR_ASKIN	02/09/1999 / 11:59	13.1	11.5	6.9	108	7.7	---	---	---	---	---	---
SWCR_ASKIN	02/09/1999 / 12:00	16.4	11.5	6.8	108	7.5	---	---	---	---	---	---
SWCR_ASKIN	03/11/1999 / 11:30	0.3	10.1	7.1	126	8.7	6	54	0.02	0.57	---	0.59
SWCR_ASKIN	03/11/1999 / 11:31	3.3	10	7	127	8.4	---	---	---	---	---	---
SWCR_ASKIN	03/11/1999 / 11:32	6.6	10	6.9	126	8.2	---	---	---	---	---	---
SWCR_ASKIN	03/11/1999 / 11:33	9.8	9.7	6.9	127	8.1	---	---	---	---	---	---
SWCR_ASKIN	03/11/1999 / 11:34	13.1	9.7	6.8	128	8	---	---	---	---	---	---
SWCR_ASKIN	04/08/1999 / 11:50	0.3	20.5	6.8	154	7.3	5.4	71	0.14	0.39	---	0.85
SWCR_ASKIN	04/08/1999 / 11:51	3.3	19.5	6.7	154	7.1	---	---	---	---	---	---
SWCR_ASKIN	04/08/1999 / 11:52	6.6	19	6.7	156	6.8	---	---	---	---	---	---
SWCR_ASKIN	04/08/1999 / 11:53	9.8	18.3	6.6	162	6.1	---	---	---	---	---	---
SWCR_ASKIN	04/08/1999 / 11:54	13.1	17.3	6.6	168	5.1	---	---	---	---	---	---
SWCR_ASKIN	05/04/1999 / 10:50	0.3	14.5	8.2	90	[3.6]	3.8	44	0.06	0.24	---	0.88
SWCR_ASKIN	05/04/1999 / 10:51	3.3	14.4	8	90	[3.4]	---	---	---	---	---	---
SWCR_ASKIN	05/04/1999 / 10:52	6.6	14.2	7.9	90	[3.2]	---	---	---	---	---	---
SWCR_ASKIN	05/04/1999 / 10:53	9.8	14.2	7.8	90	[3.1]	---	---	---	---	---	---
SWCR_ASKIN	05/04/1999 / 10:54	13.1	14.2	7.7	90	[3.0]	---	---	---	---	---	---
SWCR_ASKIN	05/04/1999 / 10:55	14.4	14.2	7.6	90	[3.0]	---	---	---	---	---	---
SWCR_ASKIN	07/01/1999 / 10:27	0.3	27.3	7.7	222	6.7	4.1	42	0.07	0.79	---	0.88
SWCR_ASKIN	07/01/1999 / 10:28	3.3	27.1	7.5	219	6.5	---	---	---	---	---	---
SWCR_ASKIN	07/01/1999 / 10:29	6.6	27	7.1	212	6.1	---	---	---	---	---	---
SWCR_ASKIN	07/01/1999 / 10:30	9.8	26.1	7	203	[4.9]	---	---	---	---	---	---
SWCR_ASKIN	07/01/1999 / 10:31	13.1	23.6	6.8	197	[1.4]	---	---	---	---	---	---
SWCR_ASKIN	07/01/1999 / 10:32	14.8	23.4	6.7	199	[1.2]	---	---	---	---	---	---
SWCR_ASKIN	07/27/1999 / 09:15	0.3	31	7.7	160	6.8	4.2	32	0.08	0.39	---	0.78
SWCR_ASKIN	07/27/1999 / 09:16	3.3	31	7.4	159	6.4	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_ASKIN	08/25/1998 / 13:06	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/25/1998 / 13:07	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/25/1998 / 13:08	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/25/1998 / 13:09	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/25/1998 / 13:10	15.7	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/23/1998 / 12:35	0.3	---	0.26	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	0.029
SWCR_ASKIN	10/21/1998 / 10:51	0.3	---	0.11	<0.01	<0.002	<0.025	[0.003]	<0.01	<0.0002	<0.01	0.011
SWCR_ASKIN	11/17/1998 / 10:50	0.3	---	0.093	<0.01	<0.002	<0.025	[0.0047]	<0.01	<0.0002	<0.01	0.016
SWCR_ASKIN	12/17/1998 / 11:01	0.3	---	0.082	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	01/13/1999 / 11:30	0.3	---	0.38	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	01/13/1999 / 11:31	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/13/1999 / 11:32	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/13/1999 / 11:33	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/13/1999 / 11:34	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/09/1999 / 11:55	0.3	---	1.5	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	02/09/1999 / 11:56	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/09/1999 / 11:57	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/09/1999 / 11:58	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/09/1999 / 11:59	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/09/1999 / 12:00	16.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/11/1999 / 11:30	0.3	---	0.62	<0.01	<0.002	<0.025	[0.0069]	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	03/11/1999 / 11:31	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/11/1999 / 11:32	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/11/1999 / 11:33	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/11/1999 / 11:34	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/08/1999 / 11:50	0.3	---	0.42	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	04/08/1999 / 11:51	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/08/1999 / 11:52	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/08/1999 / 11:53	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/08/1999 / 11:54	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/04/1999 / 10:50	0.3	---	0.21	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	05/04/1999 / 10:51	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/04/1999 / 10:52	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/04/1999 / 10:53	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/04/1999 / 10:54	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/04/1999 / 10:55	14.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/01/1999 / 10:27	0.3	---	0.29	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	07/01/1999 / 10:28	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/01/1999 / 10:29	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/01/1999 / 10:30	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/01/1999 / 10:31	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/01/1999 / 10:32	14.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/27/1999 / 09:15	0.3	---	0.24	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	07/27/1999 / 09:16	3.3	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_ASKIN	07/27/1999 / 09:17	6.6	31	7.3	159	6.2	---	---	---	---	---	---
SWCR_ASKIN	07/27/1999 / 09:18	9.8	27.8	7	146	[2.8]	---	---	---	---	---	---
SWCR_ASKIN	07/27/1999 / 09:19	13.1	27.6	6.8	145	[1.5]	---	---	---	---	---	---
SWCR_ASKIN	08/24/1999 / 09:25	0.3	28.6	7.8	1115	[4.4]	2.7	120	0.14	0.31	---	0.61
SWCR_ASKIN	08/24/1999 / 09:26	3.3	28.6	7.7	1149	[4.3]	---	---	---	---	---	---
SWCR_ASKIN	08/24/1999 / 09:27	6.6	28.6	7.5	1232	[4.2]	---	---	---	---	---	---
SWCR_ASKIN	08/24/1999 / 09:28	9.8	28.5	7.4	1288	[4.2]	---	---	---	---	---	---
SWCR_ASKIN	08/24/1999 / 09:29	13.1	29.2	7.1	3490	[3.1]	---	---	---	---	---	---
SWCR_ASKIN	08/24/1999 / 09:30	14.1	29.3	7	4180	[2.4]	---	---	---	---	---	---
SWCR_ASKIN	09/27/1999 / 12:11	0.3	20.6	7.1	89	[1.0]	5.3	32	0.31	0.02	3.2	0.97
SWCR_ASKIN	09/27/1999 / 12:12	3.3	20.6	6.6	86	[0.5]	---	---	---	---	---	---
SWCR_ASKIN	09/27/1999 / 12:13	6.6	20.5	6.3	86	[0.4]	---	---	---	---	---	---
SWCR_ASKIN	09/27/1999 / 12:14	9.8	20.5	6.1	87	[0.3]	---	---	---	---	---	---
SWCR_ASKIN	09/27/1999 / 12:15	13.1	20.4	6	87	[0.3]	---	---	---	---	---	---
SWCR_ASKIN	09/27/1999 / 12:16	16.4	20.4	6	87	[0.3]	---	---	---	---	---	---
SWCR_ASKIN	09/27/1999 / 12:17	19.7	20.4	5.9	87	[0.2]	---	---	---	---	---	---
SWCR_ASKIN	10/14/1999 / 11:05	0.3	19.2	6.1	122	[1.2]	4.6	57	0.94	0.05	4.2	2.2
SWCR_ASKIN	10/14/1999 / 11:06	3.3	19.1	6.1	123	[0.5]	---	---	---	---	---	---
SWCR_ASKIN	10/14/1999 / 11:07	6.6	19	6.1	123	[0.4]	---	---	---	---	---	---
SWCR_ASKIN	10/14/1999 / 11:08	9.8	19	6.1	123	[0.3]	---	---	---	---	---	---
SWCR_ASKIN	10/14/1999 / 11:09	13.1	19	6.1	123	[0.3]	---	---	---	---	---	---
SWCR_ASKIN	10/14/1999 / 11:10	16.4	19	6.1	123	[0.2]	---	---	---	---	---	---
SWCR_ASKIN	10/18/1999 / 11:06	0.3	---	---	---	---	14	---	0.26	0.12	---	1.4
SWCR_ASKIN	11/15/1999 / 10:30	0.3	15.1	7.2	92	7.1	6.6	---	<0.01	0.39	---	2
SWCR_ASKIN	11/15/1999 / 10:31	3.3	15.1	6.9	93	6.4	---	---	---	---	---	---
SWCR_ASKIN	11/15/1999 / 10:32	6.6	15.1	6.8	93	6.2	---	---	---	---	---	---
SWCR_ASKIN	11/15/1999 / 10:33	9.8	15.1	6.8	93	6.1	---	---	---	---	---	---
SWCR_ASKIN	11/15/1999 / 10:34	13.1	15	6.7	94	6	---	---	---	---	---	---
SWCR_ASKIN	12/15/1999 / 09:45	0.3	10.3	6.6	189	8.6	5.6	---	0.07	0.55	---	1.7
SWCR_ASKIN	12/15/1999 / 09:46	3.3	10.2	6.6	190	7.2	---	---	---	---	---	---
SWCR_ASKIN	12/15/1999 / 09:47	6.6	10.1	6.5	191	6.8	---	---	---	---	---	---
SWCR_ASKIN	12/15/1999 / 09:48	9.8	10.1	6.5	191	6.7	---	---	---	---	---	---
SWCR_ASKIN	12/15/1999 / 09:49	13.1	10.1	6.5	192	6.5	---	---	---	---	---	---
SWCR_ASKIN	01/12/2000 / 10:50	0.3	---	---	---	---	5.5	---	0.05	0.54	---	1.2
SWCR_ASKIN	02/16/2000 / 13:20	0.3	9	7.4	73	9.8	20	---	0.04	0.73	---	1.1
SWCR_ASKIN	02/16/2000 / 13:21	3.3	9	7.3	72	9	---	---	---	---	---	---
SWCR_ASKIN	02/16/2000 / 13:22	6.6	9	7.2	72	8.8	---	---	---	---	---	---
SWCR_ASKIN	02/16/2000 / 13:23	9.8	9	7.1	72	8.7	---	---	---	---	---	---
SWCR_ASKIN	02/16/2000 / 13:24	13.1	9	7.1	72	8.6	---	---	---	---	---	---
SWCR_ASKIN	03/07/2000 / 11:15	0.3	13	7.5	232	7.6	7.1	---	0.06	0.53	---	0.9
SWCR_ASKIN	03/07/2000 / 11:16	3.3	13	7.2	232	6.5	---	---	---	---	---	---
SWCR_ASKIN	03/07/2000 / 11:17	6.6	13	7.1	232	6.3	---	---	---	---	---	---
SWCR_ASKIN	03/07/2000 / 11:18	9.8	13	7.1	232	6.2	---	---	---	---	---	---
SWCR_ASKIN	03/07/2000 / 11:19	13.1	13	7	232	6.1	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_ASKIN	07/27/1999 / 09:17	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/27/1999 / 09:18	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/27/1999 / 09:19	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/24/1999 / 09:25	0.3	---	0.13	<0.01	<0.002	<0.025	[0.0044]	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	08/24/1999 / 09:26	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/24/1999 / 09:27	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/24/1999 / 09:28	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/24/1999 / 09:29	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/24/1999 / 09:30	14.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/27/1999 / 12:11	0.3	---	0.43	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	09/27/1999 / 12:12	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/27/1999 / 12:13	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/27/1999 / 12:14	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/27/1999 / 12:15	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/27/1999 / 12:16	16.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/27/1999 / 12:17	19.7	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/14/1999 / 11:05	0.3	---	0.42	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	10/14/1999 / 11:06	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/14/1999 / 11:07	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/14/1999 / 11:08	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/14/1999 / 11:09	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/14/1999 / 11:10	16.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/18/1999 / 11:06	0.3	---	1.1	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	11/15/1999 / 10:30	0.3	---	0.37	<0.01	<0.002	<0.025	0.0022	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	11/15/1999 / 10:31	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/15/1999 / 10:32	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/15/1999 / 10:33	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/15/1999 / 10:34	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/15/1999 / 09:45	0.3	---	0.39	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	12/15/1999 / 09:46	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/15/1999 / 09:47	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/15/1999 / 09:48	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/15/1999 / 09:49	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/12/2000 / 10:50	0.3	---	0.43	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	0.029
SWCR_ASKIN	02/16/2000 / 13:20	0.3	---	2.2	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	0.012
SWCR_ASKIN	02/16/2000 / 13:21	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/16/2000 / 13:22	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/16/2000 / 13:23	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/16/2000 / 13:24	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/07/2000 / 11:15	0.3	---	0.53	<0.01	<0.002	<0.025	0.0024	<0.01	<0.0002	<0.01	0.012
SWCR_ASKIN	03/07/2000 / 11:16	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/07/2000 / 11:17	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/07/2000 / 11:18	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/07/2000 / 11:19	13.1	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_ASKIN	03/07/2000 / 11:20	15.4	13	7	232	6.1	---	---	---	---	---	---
SWCR_ASKIN	04/05/2000 / 13:08	0.3	16	7.8	192	6.7	7.4	---	0.08	0.53	---	0.95
SWCR_ASKIN	04/05/2000 / 13:09	3.3	16	7.6	193	6.5	---	---	---	---	---	---
SWCR_ASKIN	04/05/2000 / 13:10	6.6	16	7.5	193	6.3	---	---	---	---	---	---
SWCR_ASKIN	04/05/2000 / 13:11	9.8	16	7.2	194	6	---	---	---	---	---	---
SWCR_ASKIN	04/05/2000 / 13:12	10.8	16	7.2	193	6	---	---	---	---	---	---
SWCR_ASKIN	05/04/2000 / 10:50	0.3	18	7.6	76	5.8	10	---	0.2	0.45	---	0.82
SWCR_ASKIN	05/04/2000 / 10:51	3.3	17	7.6	76	5.6	---	---	---	---	---	---
SWCR_ASKIN	05/04/2000 / 10:52	6.6	17	7.5	76	5.6	---	---	---	---	---	---
SWCR_ASKIN	05/04/2000 / 10:53	9.8	17	7.3	75	5.5	---	---	---	---	---	---
SWCR_ASKIN	05/04/2000 / 10:54	13.1	17	7.2	76	5.4	---	---	---	---	---	---
SWCR_ASKIN	06/01/2000 / 10:25	0.3	20	7	127	[3.7]	---	---	---	---	---	---
SWCR_ASKIN	06/01/2000 / 10:26	3.3	19	7	126	[3.4]	---	---	---	---	---	---
SWCR_ASKIN	06/01/2000 / 10:27	6.6	19	6.9	125	[3.4]	---	---	---	---	---	---
SWCR_ASKIN	06/01/2000 / 10:28	9.8	19	6.9	125	[3.4]	---	---	---	---	---	---
SWCR_ASKIN	06/01/2000 / 10:29	13.1	19	6.8	125	[3.4]	---	---	---	---	---	---
SWCR_ASKIN	06/27/2000 / 11:10	0.3	30	7.2	173	6.6	5.4	---	---	---	---	0.83
SWCR_ASKIN	06/27/2000 / 11:11	1.6	30	---	---	---	---	---	0.14	0.53	---	---
SWCR_ASKIN	06/27/2000 / 11:12	3.3	29	7.1	173	5.7	---	---	---	---	---	---
SWCR_ASKIN	06/27/2000 / 11:13	6.6	29	7	173	5.1	---	---	---	---	---	---
SWCR_ASKIN	06/27/2000 / 11:14	9.8	28	6.9	175	[4.7]	---	---	---	---	---	---
SWCR_ASKIN	06/27/2000 / 11:15	13.1	27	6.7	168	[1.8]	---	---	---	---	---	---
SWCR_ASKIN	06/27/2000 / 11:16	16.1	26	6.6	165	[0.7]	---	---	---	---	---	---
SWCR_ASKIN	07/25/2000 / 10:35	0.3	23	6.4	79	[4.7]	6.4	---	---	---	---	0.85
SWCR_ASKIN	07/25/2000 / 10:36	2.6	23	---	---	---	---	---	<0.01	0.13	---	---
SWCR_ASKIN	07/25/2000 / 10:37	3.3	23	6.4	77	[4.7]	---	---	---	---	---	---
SWCR_ASKIN	07/25/2000 / 10:38	6.6	23	6.4	77	[4.7]	---	---	---	---	---	---
SWCR_ASKIN	07/25/2000 / 10:39	9.8	23	6.4	77	[4.6]	---	---	---	---	---	---
SWCR_ASKIN	07/25/2000 / 10:40	13.1	23	6.4	77	[4.6]	---	---	---	---	---	---
SWCR_ASKIN	07/25/2000 / 10:41	16.4	23	6.4	77	[4.6]	---	---	---	---	---	---
SWCR_ASKIN	08/22/2000 / 11:53	0.3	25	7.3	134	[2.6]	3.2	---	---	---	---	1.1
SWCR_ASKIN	08/22/2000 / 11:54	3.3	25	7.1	134	[2.3]	---	---	0.08	0.24	---	---
SWCR_ASKIN	08/22/2000 / 11:55	6.6	24	7	134	[2.0]	---	---	---	---	---	---
SWCR_ASKIN	08/22/2000 / 11:56	9.8	24	6.9	134	[1.9]	---	---	---	---	---	---
SWCR_ASKIN	08/22/2000 / 11:57	13.1	24	6.9	134	[1.9]	---	---	---	---	---	---
SWCR_ASKIN	09/20/2000 / 11:00	0.3	21	6.4	73	[4.8]	6.2	---	---	---	---	---
SWCR_ASKIN	09/20/2000 / 11:01	3.3	20	6.3	74	[4.5]	---	---	0.02	0.18	---	---
SWCR_ASKIN	09/20/2000 / 11:02	6.6	20	6.3	73	[4.4]	---	---	---	---	---	---
SWCR_ASKIN	09/20/2000 / 11:03	9.8	20	6.3	73	[4.4]	---	---	---	---	---	---
SWCR_ASKIN	09/20/2000 / 11:04	13.1	20	6.3	74	[4.0]	---	---	---	---	---	---
SWCR_ASKIN	09/20/2000 / 11:05	14.8	20	6.3	74	[4.3]	---	---	---	---	---	---
SWCR_ASKIN	10/19/2000 / 12:00	0.3	18	8.5	153	8.9	2.6	---	---	---	---	---
SWCR_ASKIN	10/19/2000 / 12:01	3.3	17	8.2	142	6	---	---	---	---	---	---
SWCR_ASKIN	10/19/2000 / 12:02	6.6	17	8.1	137	5.4	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_ASKIN	03/07/2000 / 11:20	15.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/05/2000 / 13:08	0.3	---	0.55	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	04/05/2000 / 13:09	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/05/2000 / 13:10	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/05/2000 / 13:11	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/05/2000 / 13:12	10.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/04/2000 / 10:50	0.3	---	0.84	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	05/04/2000 / 10:51	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/04/2000 / 10:52	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/04/2000 / 10:53	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/04/2000 / 10:54	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/01/2000 / 10:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/01/2000 / 10:26	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/01/2000 / 10:27	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/01/2000 / 10:28	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/01/2000 / 10:29	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/27/2000 / 11:10	0.3	---	0.47	<0.01	<0.002	<0.025	[0.019]	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	06/27/2000 / 11:11	1.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/27/2000 / 11:12	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/27/2000 / 11:13	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/27/2000 / 11:14	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/27/2000 / 11:15	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/27/2000 / 11:16	16.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/25/2000 / 10:35	0.3	0.019	0.5	<0.01	<0.002	<0.025	0.0028	<0.01	<0.0002	<0.01	0.019
SWCR_ASKIN	07/25/2000 / 10:36	2.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/25/2000 / 10:37	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/25/2000 / 10:38	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/25/2000 / 10:39	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/25/2000 / 10:40	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/25/2000 / 10:41	16.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/22/2000 / 11:53	0.3	---	0.23	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	08/22/2000 / 11:54	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/22/2000 / 11:55	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/22/2000 / 11:56	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/22/2000 / 11:57	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/20/2000 / 11:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/20/2000 / 11:01	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/20/2000 / 11:02	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/20/2000 / 11:03	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/20/2000 / 11:04	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/20/2000 / 11:05	14.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/19/2000 / 12:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/19/2000 / 12:01	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/19/2000 / 12:02	6.6	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_ASKIN	10/19/2000 / 12:03	7.2	17	---	---	---	---	---	0.15	0.61	---	---
SWCR_ASKIN	10/19/2000 / 12:04	9.8	17	8	131	[4.8]	---	---	---	---	---	---
SWCR_ASKIN	10/19/2000 / 12:05	12.1	17	7.9	128	[4.3]	---	---	---	---	---	---
SWCR_ASKIN	11/14/2000 / 12:15	0.3	14	7	216	5	2.1	---	---	---	---	0.84
SWCR_ASKIN	11/14/2000 / 12:16	3.3	14	---	205	[4.7]	---	---	---	---	---	---
SWCR_ASKIN	11/14/2000 / 12:17	5.9	14	---	---	---	---	---	0.04	0.17	---	---
SWCR_ASKIN	11/14/2000 / 12:18	6.6	14	---	206	[4.6]	---	---	---	---	---	---
SWCR_ASKIN	11/14/2000 / 12:19	9.8	14	---	203	[4.4]	---	---	---	---	---	---
SWCR_ASKIN	11/14/2000 / 12:20	13.1	14	---	202	[4.2]	---	---	---	---	---	---
SWCR_ASKIN	12/13/2000 / 10:50	0.3	5	6.7	147	10.4	4.6	---	---	---	---	---
SWCR_ASKIN	12/13/2000 / 10:51	3.3	5	6.7	147	10.2	---	---	---	---	---	---
SWCR_ASKIN	12/13/2000 / 10:52	4.9	5	---	---	---	---	---	0.03	0.58	---	---
SWCR_ASKIN	12/13/2000 / 10:53	6.6	5	6.7	147	10.1	---	---	---	---	---	---
SWCR_ASKIN	12/13/2000 / 10:54	9.8	5	6.7	146	10.1	---	---	---	---	---	---
SWCR_ASKIN	12/13/2000 / 10:55	13.1	5	6.6	147	10	---	---	---	---	---	---
SWCR_ASKIN	12/13/2000 / 10:56	17.1	5	6.6	146	10	---	---	---	---	---	---
SWCR_ASKIN	01/10/2001 / 11:44	0.3	3.2	7.9	177	12.4	3.5	---	---	---	---	---
SWCR_ASKIN	01/10/2001 / 11:45	3.3	3.2	7.8	177	10.8	---	---	---	---	---	---
SWCR_ASKIN	01/10/2001 / 11:46	5.2	3.2	---	---	---	---	---	0.04	0.67	---	---
SWCR_ASKIN	01/10/2001 / 11:47	6.6	3.1	7.7	176	10.6	---	---	---	---	---	---
SWCR_ASKIN	01/10/2001 / 11:48	9.8	3.1	7.7	176	10.6	---	---	---	---	---	---
SWCR_ASKIN	01/10/2001 / 11:49	11.8	3.1	7.7	176	10.5	---	---	---	---	---	---
SWCR_ASKIN	02/06/2001 / 12:07	0.3	8.4	[9.0]	158	9.9	2.6	---	---	---	---	---
SWCR_ASKIN	02/06/2001 / 12:08	3.3	7.9	8.4	157	9.3	---	---	---	---	---	---
SWCR_ASKIN	02/06/2001 / 12:09	5.2	7.9	---	---	---	---	---	<0.5	<0.5	---	---
SWCR_ASKIN	02/06/2001 / 12:10	6.6	7.6	8.3	156	9.3	---	---	---	---	---	---
SWCR_ASKIN	02/06/2001 / 12:11	9.8	7.5	8.2	156	9.1	---	---	---	---	---	---
SWCR_ASKIN	02/06/2001 / 12:12	13.1	7.5	8.2	156	9.1	---	---	---	---	---	---
SWCR_ASKIN	02/06/2001 / 12:13	13.8	7.5	8.2	156	9.1	---	---	---	---	---	---
SWCR_ASKIN	04/03/2001 / 11:32	0.3	14.6	6.5	111	7.7	7.8	---	---	---	---	0.83
SWCR_ASKIN	04/03/2001 / 11:33	3.3	14.6	6.5	111	7.2	---	---	---	---	---	---
SWCR_ASKIN	04/03/2001 / 11:34	6.6	14.6	6.5	111	7.2	---	---	---	---	---	---
SWCR_ASKIN	04/03/2001 / 11:35	9.8	14.6	6.5	111	7	---	---	---	---	---	---
SWCR_ASKIN	04/03/2001 / 11:36	13.1	14.6	6.5	111	7	---	---	---	---	---	---
SWCR_ASKIN	04/03/2001 / 11:37	16.4	14.6	6.5	111	6.9	---	---	---	---	---	---
SWCR_ASKIN	05/01/2001 / 12:39	0.3	22	6.9	134	7.6	5.6	---	---	---	---	---
SWCR_ASKIN	05/01/2001 / 12:40	3.3	19	6.8	142	7.3	---	---	<0.2	0.44	---	---
SWCR_ASKIN	05/01/2001 / 12:41	6.6	18	6.7	160	5.1	---	---	---	---	---	---
SWCR_ASKIN	05/01/2001 / 12:42	9.8	17	6.7	166	[4.6]	---	---	---	---	---	---
SWCR_ASKIN	05/01/2001 / 12:43	13.1	17	6.6	171	[4.1]	---	---	---	---	---	---
SWCR_ASKIN	06/26/2001 / 11:53	0.3	---	---	---	---	4.5	---	---	---	---	0.92
SWCR_ASKIN	06/26/2001 / 11:54	0.7	26.1	7.1	109	[3.4]	---	---	---	---	---	---
SWCR_ASKIN	06/26/2001 / 11:55	3.3	24.8	6.9	108	[3.1]	---	---	---	---	---	---
SWCR_ASKIN	06/26/2001 / 11:56	4.6	24.8	---	---	---	---	---	0.22	0.63	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_ASKIN	10/19/2000 / 12:03	7.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/19/2000 / 12:04	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/19/2000 / 12:05	12.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/14/2000 / 12:15	0.3	---	0.14	<0.01	<0.002	<0.025	0.0027	<0.01	<0.0002	<0.01	0.011
SWCR_ASKIN	11/14/2000 / 12:16	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/14/2000 / 12:17	5.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/14/2000 / 12:18	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/14/2000 / 12:19	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/14/2000 / 12:20	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/13/2000 / 10:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/13/2000 / 10:51	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/13/2000 / 10:52	4.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/13/2000 / 10:53	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/13/2000 / 10:54	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/13/2000 / 10:55	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/13/2000 / 10:56	17.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/10/2001 / 11:44	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/10/2001 / 11:45	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/10/2001 / 11:46	5.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/10/2001 / 11:47	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/10/2001 / 11:48	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/10/2001 / 11:49	11.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/06/2001 / 12:07	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/06/2001 / 12:08	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/06/2001 / 12:09	5.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/06/2001 / 12:10	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/06/2001 / 12:11	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/06/2001 / 12:12	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/06/2001 / 12:13	13.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/03/2001 / 11:32	0.3	---	0.96	<0.01	<0.002	<0.025	[0.0045]	<0.01	<0.0002	<0.01	0.01
SWCR_ASKIN	04/03/2001 / 11:33	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/03/2001 / 11:34	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/03/2001 / 11:35	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/03/2001 / 11:36	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/03/2001 / 11:37	16.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/01/2001 / 12:39	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/01/2001 / 12:40	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/01/2001 / 12:41	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/01/2001 / 12:42	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/01/2001 / 12:43	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/26/2001 / 11:53	0.3	---	0.43	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	0.027
SWCR_ASKIN	06/26/2001 / 11:54	0.7	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/26/2001 / 11:55	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/26/2001 / 11:56	4.6	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_ASKIN	06/26/2001 / 11:57	6.6	24.7	6.8	107	[2.8]	---	---	---	---	---	---
SWCR_ASKIN	06/26/2001 / 11:58	9.8	24.7	6.7	107	[2.7]	---	---	---	---	---	---
SWCR_ASKIN	06/26/2001 / 11:59	13.1	24.6	6.7	107	[2.7]	---	---	---	---	---	---
SWCR_ASKIN	06/26/2001 / 12:00	16.1	24.6	6.6	107	[2.4]	---	---	---	---	---	---
SWCR_ASKIN	07/26/2001 / 11:04	0.3	28.8	7.9	130	7.8	7	---	---	---	---	---
SWCR_ASKIN	07/26/2001 / 11:05	3.3	28.7	7.7	130	7.8	---	---	0.15	0.22	---	---
SWCR_ASKIN	07/26/2001 / 11:06	6.6	28.6	7.5	130	7.6	---	---	---	---	---	---
SWCR_ASKIN	07/26/2001 / 11:07	9.8	28.6	7.5	130	7.5	---	---	---	---	---	---
SWCR_ASKIN	07/26/2001 / 11:08	13.1	28	7.5	130	7.2	---	---	---	---	---	---
SWCR_ASKIN	07/26/2001 / 11:09	16.4	28	7.4	130	7	---	---	---	---	---	---
SWCR_ASKIN	08/22/2001 / 10:55	0.3	27.8	6.8	91	7.3	5.6	---	---	---	---	---
SWCR_ASKIN	08/22/2001 / 10:56	3.3	25.7	6.6	91	[4.0]	---	---	---	---	---	---
SWCR_ASKIN	08/22/2001 / 10:57	3.9	25.7	---	---	---	---	---	0.07	0.21	---	---
SWCR_ASKIN	08/22/2001 / 10:58	6.6	25.3	6.4	89	[2.6]	---	---	---	---	---	---
SWCR_ASKIN	08/22/2001 / 10:59	9.8	25.2	6.3	89	[2.4]	---	---	---	---	---	---
SWCR_ASKIN	08/22/2001 / 11:00	13.1	25.2	6.3	89	[2.3]	---	---	---	---	---	---
SWCR_ASKIN	09/19/2001 / 11:00	0.3	22.3	6.8	455	5.4	5.5	---	---	---	---	1.1
SWCR_ASKIN	09/19/2001 / 11:01	3.3	21.7	6.7	538	[4.9]	---	---	---	---	---	---
SWCR_ASKIN	09/19/2001 / 11:02	6.6	21.5	6.6	764	[3.8]	---	---	0.06	0.35	---	---
SWCR_ASKIN	09/19/2001 / 11:03	9.8	21.5	6.6	823	[3.2]	---	---	---	---	---	---
SWCR_ASKIN	09/19/2001 / 11:04	13.1	21.5	6.6	831	[3.0]	---	---	---	---	---	---
SWCR_ASKIN	10/16/2001 / 12:45	0.3	21.3	7.6	575	7.6	3.3	---	---	---	---	---
SWCR_ASKIN	10/16/2001 / 12:46	3.3	20	7.3	569	7.6	---	---	---	---	---	---
SWCR_ASKIN	10/16/2001 / 12:47	6.6	19.8	7.2	689	7	---	---	---	---	---	---
SWCR_ASKIN	10/16/2001 / 12:48	7.2	19.8	---	---	---	---	---	0.08	0.48	---	---
SWCR_ASKIN	10/16/2001 / 12:49	9.8	19.3	7	2352	[4.8]	---	---	---	---	---	---
SWCR_ASKIN	11/14/2001 / 12:30	0.3	14.5	7.5	2049	8.9	5.5	---	---	---	---	---
SWCR_ASKIN	11/14/2001 / 12:31	3.3	13.6	7.1	3553	8.1	---	---	---	---	---	---
SWCR_ASKIN	11/14/2001 / 12:32	6.6	14.3	6.8	8454	5.8	---	---	0.12	0.38	---	---
SWCR_ASKIN	11/14/2001 / 12:33	9.8	14.7	6.7	9896	[4.9]	---	---	---	---	---	---
SWCR_ASKIN	11/14/2001 / 12:34	13.1	15.1	6.7	10948	[3.5]	---	---	---	---	---	---
SWCR_ASKIN	11/14/2001 / 12:35	15.7	15.4	6.7	11776	[2.4]	---	---	---	---	---	---
SWCR_ASKIN	12/12/2001 / 11:10	0.3	14.9	7.1	3474	10.4	12	---	---	---	---	0.96
SWCR_ASKIN	12/12/2001 / 11:11	3.3	14.8	7	3692	8.8	---	---	0.03	0.31	---	---
SWCR_ASKIN	12/12/2001 / 11:12	6.6	15.5	6.6	12106	[3.9]	---	---	---	---	---	---
SWCR_ASKIN	12/12/2001 / 11:13	9.8	16.6	6.6	18799	[1.4]	---	---	---	---	---	---
SWCR_ASKIN	12/12/2001 / 11:14	13.1	16.6	6.6	19831	[0.8]	---	---	---	---	---	---
SWCR_ASKIN	12/12/2001 / 11:15	15.7	16.6	6.6	19924	[0.7]	---	---	---	---	---	---
SWCR_ASKIN	01/09/2002 / 13:30	0.3	4.7	7.7	415	13.6	10	---	---	---	---	---
SWCR_ASKIN	01/09/2002 / 13:31	3.3	4.4	7.3	425	13.2	---	---	---	---	---	---
SWCR_ASKIN	01/09/2002 / 13:32	5.2	4.4	---	---	---	---	---	0.2	0.59	---	---
SWCR_ASKIN	01/09/2002 / 13:33	6.6	4.9	7.1	960	9.2	---	---	---	---	---	---
SWCR_ASKIN	01/09/2002 / 13:34	9.8	5.2	7	1060	7.9	---	---	---	---	---	---
SWCR_ASKIN	01/09/2002 / 13:35	13.1	7.5	6.7	4474	5.9	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_ASKIN	06/26/2001 / 11:57	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/26/2001 / 11:58	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/26/2001 / 11:59	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/26/2001 / 12:00	16.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/26/2001 / 11:04	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/26/2001 / 11:05	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/26/2001 / 11:06	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/26/2001 / 11:07	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/26/2001 / 11:08	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/26/2001 / 11:09	16.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/22/2001 / 10:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/22/2001 / 10:56	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/22/2001 / 10:57	3.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/22/2001 / 10:58	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/22/2001 / 10:59	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/22/2001 / 11:00	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/19/2001 / 11:00	0.3	---	0.34	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	0.013
SWCR_ASKIN	09/19/2001 / 11:01	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/19/2001 / 11:02	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/19/2001 / 11:03	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/19/2001 / 11:04	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/16/2001 / 12:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/16/2001 / 12:46	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/16/2001 / 12:47	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/16/2001 / 12:48	7.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/16/2001 / 12:49	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/14/2001 / 12:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/14/2001 / 12:31	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/14/2001 / 12:32	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/14/2001 / 12:33	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/14/2001 / 12:34	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/14/2001 / 12:35	15.7	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/12/2001 / 11:10	0.3	---	0.22	<0.01	<0.002	<0.025	[0.0042]	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	12/12/2001 / 11:11	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/12/2001 / 11:12	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/12/2001 / 11:13	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/12/2001 / 11:14	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/12/2001 / 11:15	15.7	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/09/2002 / 13:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/09/2002 / 13:31	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/09/2002 / 13:32	5.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/09/2002 / 13:33	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/09/2002 / 13:34	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/09/2002 / 13:35	13.1	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_ASKIN	02/06/2002 / 11:30	0.3	10.3	6.9	279	7.8	5.8	---	---	---	---	---
SWCR_ASKIN	02/06/2002 / 11:31	3.3	10.3	6.9	280	7.5	---	---	---	---	---	---
SWCR_ASKIN	02/06/2002 / 11:32	6.6	10.3	6.8	278	7.6	---	---	---	---	---	---
SWCR_ASKIN	02/06/2002 / 11:33	8.5	10.3	---	---	---	---	---	0.11	1.1	---	---
SWCR_ASKIN	02/06/2002 / 11:34	9.8	10.2	6.8	287	7.4	---	---	---	---	---	---
SWCR_ASKIN	02/06/2002 / 11:35	13.1	10.3	6.8	288	7.3	---	---	---	---	---	---
SWCR_ASKIN	02/06/2002 / 11:36	16.4	10.3	6.8	289	7.3	---	---	---	---	---	---
SWCR_ASKIN	03/06/2002 / 11:45	0.3	11.8	8	100	8.4	[33]	---	---	---	---	1.1
SWCR_ASKIN	03/06/2002 / 11:46	1.3	11.8	---	---	---	---	---	0.08	0.62	---	---
SWCR_ASKIN	03/06/2002 / 11:47	3.3	10.6	7.8	89	8	---	---	---	---	---	---
SWCR_ASKIN	03/06/2002 / 11:48	6.6	10.6	7.6	85	7.8	---	---	---	---	---	---
SWCR_ASKIN	03/06/2002 / 11:49	9.8	10.6	7.5	84	7.7	---	---	---	---	---	---
SWCR_ASKIN	03/06/2002 / 11:50	13.1	10.6	7.4	83	7.7	---	---	---	---	---	---
SWCR_ASKIN	03/06/2002 / 11:51	15.4	10.6	7.3	83	7.5	---	---	---	---	---	---
SWCR_ASKIN	04/03/2002 / 11:43	0.3	18.6	6.6	74	5.7	[70]	---	---	---	---	---
SWCR_ASKIN	04/03/2002 / 11:44	2	18.6	---	---	---	---	---	0.16	0.36	---	---
SWCR_ASKIN	04/03/2002 / 11:45	3.3	18.7	6.6	74	5.6	---	---	---	---	---	---
SWCR_ASKIN	04/03/2002 / 11:46	6.6	18.5	6.5	75	5.5	---	---	---	---	---	---
SWCR_ASKIN	04/03/2002 / 11:47	9.8	18.4	6.5	75	5.5	---	---	---	---	---	---
SWCR_ASKIN	04/03/2002 / 11:48	13.1	18.4	6.5	75	5.5	---	---	---	---	---	---
SWCR_ASKIN	04/03/2002 / 11:49	16.4	18.5	6.5	75	5.5	---	---	---	---	---	---
SWCR_ASKIN	04/03/2002 / 11:50	17.7	18.5	6.4	75	5.5	---	---	---	---	---	---
SWCR_ASKIN	04/30/2002 / 14:31	0.3	21.9	7.3	190	5.8	8.8	---	---	---	---	---
SWCR_ASKIN	04/30/2002 / 14:32	2.6	21.9	---	---	---	---	---	0.11	0.5	---	---
SWCR_ASKIN	04/30/2002 / 14:33	3.3	21.8	7.1	191	5.6	---	---	---	---	---	---
SWCR_ASKIN	04/30/2002 / 14:34	6.6	21.8	7.1	192	5.6	---	---	---	---	---	---
SWCR_ASKIN	04/30/2002 / 14:35	9.8	21.7	7.1	193	5.5	---	---	---	---	---	---
SWCR_ASKIN	04/30/2002 / 14:36	13.1	21.7	7.1	191	5.4	---	---	---	---	---	---
SWCR_ASKIN	04/30/2002 / 14:37	15.1	21.7	7.1	191	5.4	---	---	---	---	---	---
SWCR_ASKIN	05/28/2002 / 11:20	0.3	---	---	---	---	5.1	---	---	---	---	---
SWCR_ASKIN	05/28/2002 / 11:21	5.9	---	---	---	---	---	---	<0.01	0.39	---	---
SWCR_ASKIN	06/25/2002 / 13:16	0.3	30.2	8.5	252	11.2	6.7	---	---	---	---	0.45
SWCR_ASKIN	06/25/2002 / 13:17	3.3	27.8	7.3	282	8.2	---	---	---	---	---	---
SWCR_ASKIN	06/25/2002 / 13:18	3.9	27.8	---	---	---	---	---	<0.01	0.06	---	---
SWCR_ASKIN	06/25/2002 / 13:19	6.6	27.1	7	289	5.7	---	---	---	---	---	---
SWCR_ASKIN	06/25/2002 / 13:20	9.8	25	6.8	272	[2.3]	---	---	---	---	---	---
SWCR_ASKIN	06/25/2002 / 13:21	12.1	24.6	6.7	274	[1.8]	---	---	---	---	---	---
SWCR_ASKIN	07/23/2002 / 10:45	0.3	29.5	7.1	1075	7.9	4.8	---	---	---	---	---
SWCR_ASKIN	07/23/2002 / 10:46	3.3	29.1	6.9	1385	6.8	---	---	---	---	---	---
SWCR_ASKIN	07/23/2002 / 10:47	4.6	29.1	---	---	---	---	---	0.03	0.1	---	---
SWCR_ASKIN	07/23/2002 / 10:48	6.6	28.6	6.8	2158	[4.8]	---	---	---	---	---	---
SWCR_ASKIN	07/23/2002 / 10:49	9.8	28.8	6.3	3119	[3.5]	---	---	---	---	---	---
SWCR_ASKIN	07/23/2002 / 10:50	13.1	29.1	6.7	5223	[1.8]	---	---	---	---	---	---
SWCR_ASKIN	07/23/2002 / 10:51	14.1	29.1	6.7	5189	[1.7]	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_ASKIN	02/06/2002 / 11:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/06/2002 / 11:31	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/06/2002 / 11:32	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/06/2002 / 11:33	8.5	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/06/2002 / 11:34	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/06/2002 / 11:35	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/06/2002 / 11:36	16.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/06/2002 / 11:45	0.3	---	2.3	<0.01	<0.002	<0.025	0.0022	<0.01	<0.0002	<0.01	0.017
SWCR_ASKIN	03/06/2002 / 11:46	1.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/06/2002 / 11:47	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/06/2002 / 11:48	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/06/2002 / 11:49	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/06/2002 / 11:50	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/06/2002 / 11:51	15.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/03/2002 / 11:43	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/03/2002 / 11:44	2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/03/2002 / 11:45	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/03/2002 / 11:46	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/03/2002 / 11:47	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/03/2002 / 11:48	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/03/2002 / 11:49	16.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/03/2002 / 11:50	17.7	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/30/2002 / 14:31	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/30/2002 / 14:32	2.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/30/2002 / 14:33	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/30/2002 / 14:34	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/30/2002 / 14:35	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/30/2002 / 14:36	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/30/2002 / 14:37	15.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/28/2002 / 11:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/28/2002 / 11:21	5.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/25/2002 / 13:16	0.3	---	0.18	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	0.012
SWCR_ASKIN	06/25/2002 / 13:17	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/25/2002 / 13:18	3.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/25/2002 / 13:19	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/25/2002 / 13:20	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/25/2002 / 13:21	12.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/23/2002 / 10:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/23/2002 / 10:46	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/23/2002 / 10:47	4.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/23/2002 / 10:48	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/23/2002 / 10:49	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/23/2002 / 10:50	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/23/2002 / 10:51	14.1	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_ASKIN	08/22/2002 / 11:45	0.3	29.6	7.4	3874	7.5	5.5	---	---	---	---	---
SWCR_ASKIN	08/22/2002 / 11:46	3.3	28.7	7.1	5933	5.5	---	---	---	---	---	---
SWCR_ASKIN	08/22/2002 / 11:47	4.6	28.7	---	---	---	---	---	0.14	0.03	---	---
SWCR_ASKIN	08/22/2002 / 11:48	6.6	28.3	6.9	7700	[3.4]	---	---	---	---	---	---
SWCR_ASKIN	08/22/2002 / 11:49	9.8	28	6.9	7936	[2.4]	---	---	---	---	---	---
SWCR_ASKIN	08/22/2002 / 11:50	13.1	28.4	6.8	9198	[1.3]	---	---	---	---	---	---
SWCR_ASKIN	09/17/2002 / 12:40	0.3	27.3	7.4	374	6	4.2	---	---	---	---	1.1
SWCR_ASKIN	09/17/2002 / 12:41	3.3	25.9	7.2	398	5.3	---	---	---	---	---	---
SWCR_ASKIN	09/17/2002 / 12:42	5.9	25.9	---	---	---	---	---	0.1	0.34	---	---
SWCR_ASKIN	09/17/2002 / 12:43	6.6	25.6	7.1	423	[4.7]	---	---	---	---	---	---
SWCR_ASKIN	09/17/2002 / 12:44	9.8	25.4	6.9	725	[4.0]	---	---	---	---	---	---
SWCR_ASKIN	09/17/2002 / 12:45	13.1	24.1	6.7	1612	[1.9]	---	---	---	---	---	---
SWCR_ASKIN	09/17/2002 / 12:46	14.1	24.1	6.7	1608	[1.6]	---	---	---	---	---	---
SWCR_ASKIN	10/17/2002 / 11:30	0.3	20.5	6.7	5790	[2.3]	5.2	---	---	---	---	---
SWCR_ASKIN	10/17/2002 / 11:31	3.3	20.1	6.6	5944	[1.8]	---	---	---	---	---	---
SWCR_ASKIN	10/17/2002 / 11:32	6.6	20	6.6	6127	[1.4]	---	---	0.05	0.05	---	---
SWCR_ASKIN	10/17/2002 / 11:33	9.8	20.1	6.6	6174	[2.1]	---	---	---	---	---	---
SWCR_ASKIN	10/17/2002 / 11:34	13.1	20.1	6.6	6200	[1.7]	---	---	---	---	---	---
SWCR_ASKIN	10/17/2002 / 11:35	15.4	20.1	6.5	6228	[1.5]	---	---	---	---	---	---
SWCR_ASKIN	11/14/2002 / 12:35	0.3	14.6	7	565	[3.7]	1.8	---	---	---	---	---
SWCR_ASKIN	11/14/2002 / 12:36	3.3	14.3	6.9	567	[3.1]	---	---	---	---	---	---
SWCR_ASKIN	11/14/2002 / 12:37	5.9	14.3	---	---	---	---	---	0.04	0.09	---	---
SWCR_ASKIN	11/14/2002 / 12:38	6.6	14.3	6.8	570	[2.9]	---	---	---	---	---	---
SWCR_ASKIN	11/14/2002 / 12:39	9.8	14.2	6.8	576	[2.9]	---	---	---	---	---	---
SWCR_ASKIN	11/14/2002 / 12:40	13.1	14.2	6.8	581	[2.9]	---	---	---	---	---	---
SWCR_ASKIN	12/09/2002 / 14:25	0.3	5.6	7.6	154	13.2	9.6	---	---	---	---	1
SWCR_ASKIN	12/09/2002 / 14:26	3.3	5.6	7.4	155	12	---	---	---	---	---	---
SWCR_ASKIN	12/09/2002 / 14:27	4.6	5.6	---	---	---	---	---	0.06	0.67	---	---
SWCR_ASKIN	12/09/2002 / 14:28	6.6	5.6	7.3	155	11.9	---	---	---	---	---	---
SWCR_ASKIN	12/09/2002 / 14:29	9.8	5.6	7.3	155	11.8	---	---	---	---	---	---
SWCR_ASKIN	12/09/2002 / 14:30	13.1	5.6	7.2	155	11.7	---	---	---	---	---	---
SWCR_ASKIN	12/09/2002 / 14:31	16.1	5.6	7.2	159	11.5	---	---	---	---	---	---
SWCR_ASKIN	01/06/2003 / 11:30	0.3	8.5	7.7	257	10.7	4.5	---	---	---	---	---
SWCR_ASKIN	01/06/2003 / 11:31	3.3	8.4	7.5	257	9.3	---	---	---	---	---	---
SWCR_ASKIN	01/06/2003 / 11:32	5.2	8.4	---	---	---	---	---	<0.02	0.83	---	---
SWCR_ASKIN	01/06/2003 / 11:33	6.6	8.2	7.3	257	8.9	---	---	---	---	---	---
SWCR_ASKIN	01/06/2003 / 11:34	9.8	8.2	7.2	258	8.7	---	---	---	---	---	---
SWCR_ASKIN	01/06/2003 / 11:35	13.1	8.2	7.1	260	8.4	---	---	---	---	---	---
SWCR_ASKIN	01/06/2003 / 11:36	13.8	8.2	7	260	8.4	---	---	---	---	---	---
SWCR_ASKIN	02/05/2003 / 12:00	0.3	6.6	8.1	264	11.4	7	---	---	---	---	---
SWCR_ASKIN	02/05/2003 / 12:01	3.3	6.6	8	261	11.2	---	---	---	---	---	---
SWCR_ASKIN	02/05/2003 / 12:02	3.9	6.6	---	---	---	---	---	0.03	0.78	---	---
SWCR_ASKIN	02/05/2003 / 12:03	6.6	5.9	7.8	302	11.1	---	---	---	---	---	---
SWCR_ASKIN	02/05/2003 / 12:04	9.8	5.7	7.7	308	10.3	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_ASKIN	08/22/2002 / 11:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/22/2002 / 11:46	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/22/2002 / 11:47	4.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/22/2002 / 11:48	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/22/2002 / 11:49	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/22/2002 / 11:50	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/17/2002 / 12:40	0.3	---	0.21	<0.01	<0.002	<0.025	[0.0033]	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	09/17/2002 / 12:41	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/17/2002 / 12:42	5.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/17/2002 / 12:43	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/17/2002 / 12:44	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/17/2002 / 12:45	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/17/2002 / 12:46	14.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/17/2002 / 11:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/17/2002 / 11:31	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/17/2002 / 11:32	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/17/2002 / 11:33	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/17/2002 / 11:34	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/17/2002 / 11:35	15.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/14/2002 / 12:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/14/2002 / 12:36	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/14/2002 / 12:37	5.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/14/2002 / 12:38	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/14/2002 / 12:39	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/14/2002 / 12:40	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/09/2002 / 14:25	0.3	---	0.35	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	0.02
SWCR_ASKIN	12/09/2002 / 14:26	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/09/2002 / 14:27	4.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/09/2002 / 14:28	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/09/2002 / 14:29	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/09/2002 / 14:30	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/09/2002 / 14:31	16.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/06/2003 / 11:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/06/2003 / 11:31	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/06/2003 / 11:32	5.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/06/2003 / 11:33	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/06/2003 / 11:34	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/06/2003 / 11:35	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/06/2003 / 11:36	13.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/05/2003 / 12:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/05/2003 / 12:01	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/05/2003 / 12:02	3.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/05/2003 / 12:03	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/05/2003 / 12:04	9.8	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_ASKIN	03/03/2003 / 13:00	0.3	9.9	7.4	153	9.7	22	---	---	---	---	0.71
SWCR_ASKIN	03/03/2003 / 13:01	3.3	10	7.4	153	9.3	---	---	0.03	1	---	---
SWCR_ASKIN	03/03/2003 / 13:02	6.6	9.5	7.3	153	9.1	---	---	---	---	---	---
SWCR_ASKIN	03/03/2003 / 13:03	9.8	9.5	7.2	153	9	---	---	---	---	---	---
SWCR_ASKIN	03/03/2003 / 13:04	13.1	9.4	7.2	154	8.9	---	---	---	---	---	---
SWCR_ASKIN	04/01/2003 / 13:05	0.3	15.9	6.9	110	5.5	4.3	---	---	---	---	---
SWCR_ASKIN	04/01/2003 / 13:06	3.3	15.7	6.8	110	5.2	---	---	---	---	---	---
SWCR_ASKIN	04/01/2003 / 13:07	3.9	15.7	---	---	---	---	---	0.04	0.44	---	---
SWCR_ASKIN	04/01/2003 / 13:08	6.6	14.7	6.7	110	[4.8]	---	---	---	---	---	---
SWCR_ASKIN	04/01/2003 / 13:09	9.8	14.6	6.6	111	[4.7]	---	---	---	---	---	---
SWCR_ASKIN	04/01/2003 / 13:10	13.1	14.6	6.6	110	[4.6]	---	---	---	---	---	---
SWCR_ASKIN	04/01/2003 / 13:11	14.8	14.6	6.6	110	[4.6]	---	---	---	---	---	---
SWCR_ASKIN	04/28/2003 / 12:47	0.3	19.3	8.4	149	5.3	4.3	---	---	---	---	---
SWCR_ASKIN	04/28/2003 / 12:48	3.3	17.9	8.2	139	[4.9]	---	---	---	---	---	---
SWCR_ASKIN	04/28/2003 / 12:49	4.6	17.9	---	---	---	---	---	0.08	0.32	---	---
SWCR_ASKIN	04/28/2003 / 12:50	6.6	17.6	8.1	137	[4.8]	---	---	---	---	---	---
SWCR_ASKIN	04/28/2003 / 12:51	9.8	17.5	8	137	[4.7]	---	---	---	---	---	---
SWCR_ASKIN	04/28/2003 / 12:52	13.1	17.5	7.9	137	[4.6]	---	---	---	---	---	---
SWCR_ASKIN	04/28/2003 / 12:53	15.1	17.5	7.8	137	[4.4]	---	---	---	---	---	---
SWCR_ASKIN	05/28/2003 / 11:30	0.3	19	6.4	77	5.6	18	---	---	---	---	---
SWCR_ASKIN	05/28/2003 / 11:31	2	19	---	---	---	---	---	0.06	0.63	---	---
SWCR_ASKIN	05/28/2003 / 11:32	3.3	18.9	6.3	77	5.2	---	---	---	---	---	---
SWCR_ASKIN	05/28/2003 / 11:33	6.6	18.9	6.4	77	5	---	---	---	---	---	---
SWCR_ASKIN	05/28/2003 / 11:34	9.8	18.9	6.5	77	[4.8]	---	---	---	---	---	---
SWCR_ASKIN	05/28/2003 / 11:35	13.1	18.9	6.5	77	[4.9]	---	---	---	---	---	---
SWCR_ASKIN	05/28/2003 / 11:36	16.1	18.9	6.5	77	[4.9]	---	---	---	---	---	---
SWCR_ASKIN	06/25/2003 / 12:02	0.3	26.8	6.9	161	5.4	4.2	---	---	---	---	1.2
SWCR_ASKIN	06/25/2003 / 12:03	3.3	25.8	6.7	161	[4.1]	---	---	---	---	---	---
SWCR_ASKIN	06/25/2003 / 12:04	3.9	25.8	---	---	---	---	---	0.02	0.22	---	---
SWCR_ASKIN	06/25/2003 / 12:05	6.6	25.7	6.6	163	[3.0]	---	---	---	---	---	---
SWCR_ASKIN	06/25/2003 / 12:06	9.8	25	6.7	165	[1.7]	---	---	---	---	---	---
SWCR_ASKIN	06/25/2003 / 12:07	13.1	24.9	6.7	165	[1.5]	---	---	---	---	---	---
SWCR_ASKIN	06/25/2003 / 12:08	15.4	25.9	6.7	166	[1.4]	---	---	---	---	---	---
SWCR_ASKIN	07/21/2003 / 11:42	0.3	29.8	6.9	81	8.1	6.1	---	---	---	---	---
SWCR_ASKIN	07/21/2003 / 11:43	2.6	29.8	---	---	---	---	---	<0.02	0.33	---	---
SWCR_ASKIN	07/21/2003 / 11:44	3.3	26.8	6.3	111	5.6	---	---	---	---	---	---
SWCR_ASKIN	07/21/2003 / 11:45	6.6	26	6.1	110	[3.7]	---	---	---	---	---	---
SWCR_ASKIN	07/21/2003 / 11:46	9.8	25.4	6.1	109	[2.7]	---	---	---	---	---	---
SWCR_ASKIN	07/21/2003 / 11:47	13.1	25.3	6	111	[2.5]	---	---	---	---	---	---
SWCR_ASKIN	07/21/2003 / 11:48	14.4	25.3	6	116	[2.3]	---	---	---	---	---	---
SWCR_ASKIN	08/19/2003 / 10:30	0.3	26.5	6.4	96	[4.0]	6.9	---	---	---	---	---
SWCR_ASKIN	08/19/2003 / 10:31	2.6	26.5	---	---	---	---	---	0.06	0.36	---	---
SWCR_ASKIN	08/19/2003 / 10:32	3.3	26.1	6.3	96	[3.6]	---	---	---	---	---	---
SWCR_ASKIN	08/19/2003 / 10:33	6.6	25.8	6.3	97	[3.4]	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_ASKIN	03/03/2003 / 13:00	0.3	---	1.3	<0.01	<0.002	<0.025	0.0029	<0.01	<0.0002	<0.01	0.015
SWCR_ASKIN	03/03/2003 / 13:01	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/03/2003 / 13:02	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/03/2003 / 13:03	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/03/2003 / 13:04	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/01/2003 / 13:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/01/2003 / 13:06	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/01/2003 / 13:07	3.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/01/2003 / 13:08	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/01/2003 / 13:09	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/01/2003 / 13:10	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/01/2003 / 13:11	14.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/28/2003 / 12:47	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/28/2003 / 12:48	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/28/2003 / 12:49	4.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/28/2003 / 12:50	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/28/2003 / 12:51	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/28/2003 / 12:52	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/28/2003 / 12:53	15.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/28/2003 / 11:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/28/2003 / 11:31	2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/28/2003 / 11:32	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/28/2003 / 11:33	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/28/2003 / 11:34	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/28/2003 / 11:35	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/28/2003 / 11:36	16.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/25/2003 / 12:02	0.3	---	0.23	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	06/25/2003 / 12:03	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/25/2003 / 12:04	3.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/25/2003 / 12:05	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/25/2003 / 12:06	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/25/2003 / 12:07	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/25/2003 / 12:08	15.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/21/2003 / 11:42	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/21/2003 / 11:43	2.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/21/2003 / 11:44	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/21/2003 / 11:45	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/21/2003 / 11:46	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/21/2003 / 11:47	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/21/2003 / 11:48	14.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/19/2003 / 10:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/19/2003 / 10:31	2.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/19/2003 / 10:32	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/19/2003 / 10:33	6.6	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_ASKIN	08/19/2003 / 10:34	9.8	25.7	6.3	97	[3.1]	---	---	---	---	---	---
SWCR_ASKIN	09/16/2003 / 11:10	0.3	23.5	6.6	181	[4.3]	4.1	---	---	---	---	1.3
SWCR_ASKIN	09/16/2003 / 11:11	3.3	23	6.4	194	[2.8]	---	---	---	---	---	---
SWCR_ASKIN	09/16/2003 / 11:12	4.6	23	---	---	---	---	---	0.04	0.35	---	---
SWCR_ASKIN	09/16/2003 / 11:13	6.6	22.7	6.3	199	[2.3]	---	---	---	---	---	---
SWCR_ASKIN	09/16/2003 / 11:14	9.8	22.6	6.3	200	[2.1]	---	---	---	---	---	---
SWCR_ASKIN	09/16/2003 / 11:15	13.1	22.6	6.3	200	[2.1]	---	---	---	---	---	---
SWCR_ASKIN	09/16/2003 / 11:16	14.4	22.6	6.3	200	[2.0]	---	---	---	---	---	---
SWCR_ASKIN	09/24/2003 / 11:35	0.3	22.2	6.2	86	[0.7]	6.3	---	---	---	---	---
SWCR_ASKIN	09/24/2003 / 11:36	3.3	22.2	---	---	---	---	---	<0.02	<0.02	---	---
SWCR_ASKIN	10/16/2003 / 12:20	0.3	20.3	6.9	142	8.2	3.4	---	---	---	---	---
SWCR_ASKIN	10/16/2003 / 12:21	3.3	19	6.7	142	6.8	---	---	---	---	---	---
SWCR_ASKIN	10/16/2003 / 12:22	3.9	19	---	---	---	---	---	0.04	0.27	---	---
SWCR_ASKIN	10/16/2003 / 12:23	6.6	18.9	6.5	143	[2.7]	---	---	---	---	---	---
SWCR_ASKIN	10/16/2003 / 12:24	9.8	18.8	6.5	142	[2.6]	---	---	---	---	---	---
SWCR_ASKIN	10/16/2003 / 12:25	13.1	18.8	6.5	142	[2.5]	---	---	---	---	---	---
SWCR_ASKIN	10/16/2003 / 12:26	14.8	18.8	6.5	143	[2.4]	---	---	---	---	---	---
SWCR_ASKIN	11/12/2003 / 15:30	0.3	15.3	7	111	5	7	---	---	---	---	---
SWCR_ASKIN	11/12/2003 / 15:31	3.3	14.5	6.7	108	[4.5]	---	---	0.04	0.38	---	---
SWCR_ASKIN	11/12/2003 / 15:32	6.6	13.9	6.6	108	[4.3]	---	---	---	---	---	---
SWCR_ASKIN	11/12/2003 / 15:33	9.8	13.9	6.5	108	[4.1]	---	---	---	---	---	---
SWCR_ASKIN	11/12/2003 / 15:34	11.8	13.9	6.5	108	[4.1]	---	---	---	---	---	---
SWCR_ASKIN	12/08/2003 / 12:12	0.3	7.7	7.6	143	8.9	5.5	---	---	---	---	0.87
SWCR_ASKIN	12/08/2003 / 12:13	3.3	7.6	7.3	143	8.2	---	---	---	---	---	---
SWCR_ASKIN	12/08/2003 / 12:14	6.6	7.6	7.2	143	7.9	---	---	---	---	---	---
SWCR_ASKIN	12/08/2003 / 12:15	8.5	7.6	---	---	---	---	---	0.05	0.5	---	---
SWCR_ASKIN	12/08/2003 / 12:16	9.8	7.5	7.1	143	7.8	---	---	---	---	---	---
SWCR_ASKIN	12/08/2003 / 12:17	13.1	7.5	7	143	7.7	---	---	---	---	---	---
SWCR_ASKIN	12/08/2003 / 12:18	14.4	7.5	6.9	143	7.6	---	---	---	---	---	---
SWCR_ASKIN	01/07/2004 / 10:00	0.3	9	7.1	153	9.4	8.2	---	---	---	---	---
SWCR_ASKIN	01/07/2004 / 10:01	3.3	9	6.9	147	8.6	---	---	---	---	---	---
SWCR_ASKIN	01/07/2004 / 10:02	5.2	9	---	---	---	---	---	0.16	0.67	---	---
SWCR_ASKIN	01/07/2004 / 10:03	6.6	9	6.8	143	8.6	---	---	---	---	---	---
SWCR_ASKIN	01/07/2004 / 10:04	9.8	9	6.8	141	8.5	---	---	---	---	---	---
SWCR_ASKIN	01/07/2004 / 10:05	13.1	9	6.8	141	8.5	---	---	---	---	---	---
SWCR_ASKIN	02/04/2004 / 11:50	0.3	4	6.8	141	13.6	9.3	---	---	---	---	---
SWCR_ASKIN	02/04/2004 / 11:51	3.3	4	6.7	141	12.7	---	---	---	---	---	---
SWCR_ASKIN	02/04/2004 / 11:52	5.9	4	---	---	---	---	---	0.04	0.65	---	---
SWCR_ASKIN	02/04/2004 / 11:53	6.6	4	6.7	141	12.3	---	---	---	---	---	---
SWCR_ASKIN	02/04/2004 / 11:54	9.8	4	6.7	141	12.3	---	---	---	---	---	---
SWCR_ASKIN	02/04/2004 / 11:55	13.1	4	6.6	142	12.1	---	---	---	---	---	---
SWCR_ASKIN	03/02/2004 / 12:50	0.3	9	7.4	79	11.9	16	---	---	---	---	0.62
SWCR_ASKIN	03/02/2004 / 12:51	3.3	9	7.1	80	11.4	---	---	0.02	0.77	---	---
SWCR_ASKIN	03/02/2004 / 12:52	6.6	9	7	79	11.5	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_ASKIN	08/19/2003 / 10:34	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/16/2003 / 11:10	0.3	---	0.18	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	09/16/2003 / 11:11	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/16/2003 / 11:12	4.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/16/2003 / 11:13	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/16/2003 / 11:14	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/16/2003 / 11:15	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/16/2003 / 11:16	14.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/24/2003 / 11:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/24/2003 / 11:36	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/16/2003 / 12:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/16/2003 / 12:21	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/16/2003 / 12:22	3.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/16/2003 / 12:23	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/16/2003 / 12:24	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/16/2003 / 12:25	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/16/2003 / 12:26	14.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/12/2003 / 15:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/12/2003 / 15:31	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/12/2003 / 15:32	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/12/2003 / 15:33	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/12/2003 / 15:34	11.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/08/2003 / 12:12	0.3	---	0.33	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	12/08/2003 / 12:13	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/08/2003 / 12:14	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/08/2003 / 12:15	8.5	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/08/2003 / 12:16	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/08/2003 / 12:17	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/08/2003 / 12:18	14.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/07/2004 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/07/2004 / 10:01	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/07/2004 / 10:02	5.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/07/2004 / 10:03	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/07/2004 / 10:04	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/07/2004 / 10:05	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/04/2004 / 11:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/04/2004 / 11:51	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/04/2004 / 11:52	5.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/04/2004 / 11:53	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/04/2004 / 11:54	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/04/2004 / 11:55	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/02/2004 / 12:50	0.3	---	1.3	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	03/02/2004 / 12:51	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/02/2004 / 12:52	6.6	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_ASKIN	03/02/2004 / 12:53	9.8	9	7	87	10.6	---	---	---	---	---	---
SWCR_ASKIN	03/31/2004 / 11:45	0.3	15	7.3	159	10.3	5.6	---	---	---	---	---
SWCR_ASKIN	03/31/2004 / 11:46	3.3	15	7.2	150	9.9	---	---	---	---	---	---
SWCR_ASKIN	03/31/2004 / 11:47	5.9	15	---	---	---	---	---	<0.02	0.39	---	---
SWCR_ASKIN	03/31/2004 / 11:48	6.6	14	7	148	9.6	---	---	---	---	---	---
SWCR_ASKIN	03/31/2004 / 11:49	9.8	14	6.9	148	8.6	---	---	---	---	---	---
SWCR_ASKIN	03/31/2004 / 11:50	12.1	14	6.9	149	8.3	---	---	---	---	---	---
SWCR_ASKIN	04/28/2004 / 11:50	0.3	21.3	7	169	[4.5]	4.4	---	---	---	---	---
SWCR_ASKIN	04/28/2004 / 11:51	3.3	21	6.9	167	[4.0]	---	---	---	---	---	---
SWCR_ASKIN	04/28/2004 / 11:52	6.6	20.8	6.8	166	[3.7]	---	---	---	---	---	---
SWCR_ASKIN	04/28/2004 / 11:53	7.2	20.8	---	---	---	---	---	0.1	0.29	---	---
SWCR_ASKIN	04/28/2004 / 11:54	9.8	20.7	6.8	165	[3.6]	---	---	---	---	---	---
SWCR_ASKIN	04/28/2004 / 11:55	13.1	20.7	6.7	165	[3.6]	---	---	---	---	---	---
SWCR_ASKIN	05/26/2004 / 12:15	0.3	28.9	7.2	162	7.9	6.8	---	---	---	---	---
SWCR_ASKIN	05/26/2004 / 12:16	3.3	28	7	162	6.9	---	---	---	---	---	---
SWCR_ASKIN	05/26/2004 / 12:17	3.9	28	---	---	---	---	---	0.02	0.57	---	---
SWCR_ASKIN	05/26/2004 / 12:18	6.6	27	6.7	160	[4.6]	---	---	---	---	---	---
SWCR_ASKIN	05/26/2004 / 12:19	9.8	26.5	6.7	162	[3.2]	---	---	---	---	---	---
SWCR_ASKIN	05/26/2004 / 12:20	11.5	26.5	6.6	162	[3.0]	---	---	---	---	---	---
SWCR_ASKIN	06/23/2004 / 11:10	0.3	28.7	6.9	154	7.4	7.4	---	---	---	---	1
SWCR_ASKIN	06/23/2004 / 11:11	3.3	27.8	6.9	154	6.9	---	---	---	---	---	---
SWCR_ASKIN	06/23/2004 / 11:12	5.2	27.8	---	---	---	---	---	0.03	0.49	---	---
SWCR_ASKIN	06/23/2004 / 11:13	6.6	26.3	6.6	151	[4.4]	---	---	---	---	---	---
SWCR_ASKIN	06/23/2004 / 11:14	9.8	25.2	6.5	145	[3.3]	---	---	---	---	---	---
SWCR_ASKIN	06/23/2004 / 11:15	13.1	25.1	6.5	146	[3.2]	---	---	---	---	---	---
SWCR_ASKIN	07/20/2004 / 11:50	0.3	29.8	6.9	139	[4.6]	4.5	---	---	---	---	---
SWCR_ASKIN	07/20/2004 / 11:51	3.3	28.8	6.8	139	[3.8]	---	---	---	---	---	---
SWCR_ASKIN	07/20/2004 / 11:52	5.2	28.8	---	---	---	---	---	0.09	0.21	---	---
SWCR_ASKIN	07/20/2004 / 11:53	6.6	28.5	6.7	139	[3.1]	---	---	---	---	---	---
SWCR_ASKIN	08/17/2004 / 12:23	0.3	22.8	6.6	74	[4.7]	14	---	---	---	---	---
SWCR_ASKIN	08/17/2004 / 12:24	3.3	22.6	6.4	74	[4.5]	---	---	---	---	---	---
SWCR_ASKIN	08/17/2004 / 12:25	4.9	22.6	---	---	---	---	---	<0.02	0.26	---	---
SWCR_ASKIN	08/17/2004 / 12:26	6.6	22.5	6.4	74	[4.4]	---	---	---	---	---	---
SWCR_ASKIN	08/17/2004 / 12:27	9.8	22.4	6.4	74	[4.3]	---	---	---	---	---	---
SWCR_ASKIN	08/17/2004 / 12:28	13.1	22.4	6.4	74	[4.2]	---	---	---	---	---	---
SWCR_ASKIN	08/17/2004 / 12:29	15.4	22.4	6.4	74	[4.2]	---	---	---	---	---	---
SWCR_ASKIN	09/14/2004 / 11:37	0.3	---	---	---	---	5.1	---	---	---	---	1.1
SWCR_ASKIN	09/14/2004 / 11:38	0.7	23.8	6.2	99	[2.6]	---	---	---	---	---	---
SWCR_ASKIN	09/14/2004 / 11:39	3.3	23.5	6.2	98	[2.1]	---	---	---	---	---	---
SWCR_ASKIN	09/14/2004 / 11:40	5.6	23.5	---	---	---	---	---	0.05	0.09	---	---
SWCR_ASKIN	09/14/2004 / 11:41	6.6	23.5	6.2	99	[1.9]	---	---	---	---	---	---
SWCR_ASKIN	09/14/2004 / 11:42	9.8	23.5	6.2	99	[1.9]	---	---	---	---	---	---
SWCR_ASKIN	09/14/2004 / 11:43	13.1	23.4	6.2	99	[1.8]	---	---	---	---	---	---
SWCR_ASKIN	09/14/2004 / 11:44	14.1	23.4	6.2	104	[1.7]	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_ASKIN	03/02/2004 / 12:53	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/31/2004 / 11:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/31/2004 / 11:46	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/31/2004 / 11:47	5.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/31/2004 / 11:48	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/31/2004 / 11:49	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/31/2004 / 11:50	12.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/28/2004 / 11:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/28/2004 / 11:51	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/28/2004 / 11:52	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/28/2004 / 11:53	7.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/28/2004 / 11:54	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/28/2004 / 11:55	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/26/2004 / 12:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/26/2004 / 12:16	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/26/2004 / 12:17	3.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/26/2004 / 12:18	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/26/2004 / 12:19	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/26/2004 / 12:20	11.5	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/23/2004 / 11:10	0.3	---	0.3	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	06/23/2004 / 11:11	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/23/2004 / 11:12	5.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/23/2004 / 11:13	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/23/2004 / 11:14	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/23/2004 / 11:15	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/20/2004 / 11:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/20/2004 / 11:51	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/20/2004 / 11:52	5.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/20/2004 / 11:53	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/17/2004 / 12:23	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/17/2004 / 12:24	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/17/2004 / 12:25	4.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/17/2004 / 12:26	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/17/2004 / 12:27	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/17/2004 / 12:28	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/17/2004 / 12:29	15.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/14/2004 / 11:37	0.3	---	0.25	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	09/14/2004 / 11:38	0.7	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/14/2004 / 11:39	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/14/2004 / 11:40	5.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/14/2004 / 11:41	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/14/2004 / 11:42	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/14/2004 / 11:43	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/14/2004 / 11:44	14.1	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_ASKIN	10/12/2004 / 13:10	0.3	---	---	---	---	3.2	---	---	---	---	---
SWCR_ASKIN	10/12/2004 / 13:11	0.7	21	---	142	[2.9]	---	---	---	---	---	---
SWCR_ASKIN	10/12/2004 / 13:12	3.3	20.2	---	142	[2.2]	---	---	---	---	---	---
SWCR_ASKIN	10/12/2004 / 13:13	3.9	20.2	---	---	---	---	---	0.04	<0.02	---	---
SWCR_ASKIN	10/12/2004 / 13:14	6.6	20.2	---	142	[2.1]	---	---	---	---	---	---
SWCR_ASKIN	10/12/2004 / 13:15	9.8	20.1	---	142	[1.9]	---	---	---	---	---	---
SWCR_ASKIN	10/12/2004 / 13:16	13.1	20.1	---	142	[1.9]	---	---	---	---	---	---
SWCR_ASKIN	10/12/2004 / 13:17	15.7	20.1	---	142	[1.9]	---	---	---	---	---	---
SWCR_ASKIN	11/09/2004 / 11:39	0.3	---	---	---	---	5.6	---	---	---	---	---
SWCR_ASKIN	11/09/2004 / 11:40	0.7	16.4	7.1	204	7.3	---	---	---	---	---	---
SWCR_ASKIN	11/09/2004 / 11:41	3.3	16.4	6.9	203	5.7	---	---	---	---	---	---
SWCR_ASKIN	11/09/2004 / 11:42	6.6	16.3	6.9	205	6.1	---	---	---	---	---	---
SWCR_ASKIN	11/09/2004 / 11:43	7.9	16.3	---	---	---	---	---	0.06	0.35	---	---
SWCR_ASKIN	11/09/2004 / 11:44	9.8	16.3	6.8	204	5.5	---	---	---	---	---	---
SWCR_ASKIN	11/09/2004 / 11:45	13.1	16.3	6.8	205	5.5	---	---	---	---	---	---
SWCR_ASKIN	11/09/2004 / 11:46	16.4	16.3	6.8	205	5.4	---	---	---	---	---	---
SWCR_ASKIN	12/06/2004 / 14:11	0.3	---	---	---	---	6.8	---	---	---	---	0.81
SWCR_ASKIN	12/06/2004 / 14:12	0.7	11	6.5	138	6.1	---	---	---	---	---	---
SWCR_ASKIN	12/06/2004 / 14:13	3.3	10.2	6.5	138	6.1	---	---	---	---	---	---
SWCR_ASKIN	12/06/2004 / 14:14	6.6	10.1	6.5	139	6.1	---	---	0.03	0.44	---	---
SWCR_ASKIN	12/06/2004 / 14:15	9.8	10.1	6.5	140	5.9	---	---	---	---	---	---
SWCR_ASKIN	12/06/2004 / 14:16	13.1	10.1	6.5	140	5.9	---	---	---	---	---	---
SWCR_ASKIN	01/04/2005 / 12:55	0.3	---	---	---	---	8.3	---	---	---	---	---
SWCR_ASKIN	01/04/2005 / 12:56	0.7	7.3	6.6	140	15.7	---	---	---	---	---	---
SWCR_ASKIN	01/04/2005 / 12:57	3.3	7.1	6.5	140	12.4	---	---	---	---	---	---
SWCR_ASKIN	01/04/2005 / 12:58	3.9	7.1	---	---	---	---	---	0.03	0.83	---	---
SWCR_ASKIN	01/04/2005 / 12:59	6.6	6.4	6.5	145	6.3	---	---	---	---	---	---
SWCR_ASKIN	01/04/2005 / 13:00	9.2	5.8	6.4	143	11.5	---	---	---	---	---	---
SWCR_ASKIN	02/01/2005 / 13:03	0.3	3.3	6.8	133	14.1	3.6	---	---	---	---	---
SWCR_ASKIN	02/01/2005 / 13:04	3.3	3.3	6.8	133	12.7	---	---	---	---	---	---
SWCR_ASKIN	02/01/2005 / 13:05	6.2	3.3	---	---	---	---	---	0.02	0.64	---	---
SWCR_ASKIN	02/01/2005 / 13:06	6.6	3.2	6.8	133	12.5	---	---	---	---	---	---
SWCR_ASKIN	02/01/2005 / 13:07	9.8	3.2	6.8	133	12.4	---	---	---	---	---	---
SWCR_ASKIN	02/01/2005 / 13:08	13.1	3.2	6.8	133	12.5	---	---	---	---	---	---
SWCR_ASKIN	02/01/2005 / 13:09	16.4	3.2	6.8	133	12.3	---	---	---	---	---	---
SWCR_ASKIN	03/01/2005 / 12:53	0.3	8.3	7.5	130	12.5	4.6	---	---	---	---	0.62
SWCR_ASKIN	03/01/2005 / 12:54	3.3	8.3	7.2	130	10.1	---	---	---	---	---	---
SWCR_ASKIN	03/01/2005 / 12:55	6.6	8.3	7.1	128	9.8	---	---	---	---	---	---
SWCR_ASKIN	03/01/2005 / 12:56	7.2	8.3	---	---	---	---	---	<0.02	0.26	---	---
SWCR_ASKIN	03/01/2005 / 12:57	9.8	8.3	7	129	9.7	---	---	---	---	---	---
SWCR_ASKIN	03/01/2005 / 12:58	13.1	8.3	7	129	9.6	---	---	---	---	---	---
SWCR_ASKIN	03/01/2005 / 12:59	14.4	8.3	7	128	9.5	---	---	---	---	---	---
SWCR_ASKIN	03/30/2005 / 12:23	0.3	17	6.2	105	7.1	21	---	---	---	---	0.7
SWCR_ASKIN	03/30/2005 / 12:24	3.3	16	6.2	105	6.9	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_ASKIN	10/12/2004 / 13:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/12/2004 / 13:11	0.7	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/12/2004 / 13:12	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/12/2004 / 13:13	3.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/12/2004 / 13:14	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/12/2004 / 13:15	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/12/2004 / 13:16	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/12/2004 / 13:17	15.7	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/09/2004 / 11:39	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/09/2004 / 11:40	0.7	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/09/2004 / 11:41	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/09/2004 / 11:42	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/09/2004 / 11:43	7.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/09/2004 / 11:44	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/09/2004 / 11:45	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/09/2004 / 11:46	16.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/06/2004 / 14:11	0.3	---	0.53	<0.005	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	12/06/2004 / 14:12	0.7	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/06/2004 / 14:13	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/06/2004 / 14:14	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/06/2004 / 14:15	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/06/2004 / 14:16	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/04/2005 / 12:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/04/2005 / 12:56	0.7	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/04/2005 / 12:57	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/04/2005 / 12:58	3.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/04/2005 / 12:59	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/04/2005 / 13:00	9.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/01/2005 / 13:03	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/01/2005 / 13:04	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/01/2005 / 13:05	6.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/01/2005 / 13:06	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/01/2005 / 13:07	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/01/2005 / 13:08	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/01/2005 / 13:09	16.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/01/2005 / 12:53	0.3	---	0.3	<0.005	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	03/01/2005 / 12:54	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/01/2005 / 12:55	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/01/2005 / 12:56	7.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/01/2005 / 12:57	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/01/2005 / 12:58	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/01/2005 / 12:59	14.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/30/2005 / 12:23	0.3	---	0.83	<0.005	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	03/30/2005 / 12:24	3.3	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_ASKIN	03/30/2005 / 12:25	3.9	16	---	---	---	---	---	0.14	0.47	---	---
SWCR_ASKIN	03/30/2005 / 12:26	6.6	15.6	6.2	104	6.7	---	---	---	---	---	---
SWCR_ASKIN	03/30/2005 / 12:27	9.8	15.3	6.2	104	6.6	---	---	---	---	---	---
SWCR_ASKIN	03/30/2005 / 12:28	13.1	15.3	6.2	105	6.6	---	---	---	---	---	---
SWCR_ASKIN	03/30/2005 / 12:29	16.1	15.3	6.2	104	6.5	---	---	---	---	---	---
SWCR_ASKIN	04/27/2005 / 12:00	0.3	18.6	6.6	123	7.2	6.2	---	---	---	---	---
SWCR_ASKIN	04/27/2005 / 12:01	3.3	17.7	6.7	121	7.6	---	---	---	---	---	---
SWCR_ASKIN	04/27/2005 / 12:02	6.6	17.5	6.7	122	7.7	---	---	---	---	---	---
SWCR_ASKIN	04/27/2005 / 12:03	7.5	17.5	---	---	---	---	---	0.1	0.58	---	---
SWCR_ASKIN	04/27/2005 / 12:04	9.8	17.4	6.7	122	7.9	---	---	---	---	---	---
SWCR_ASKIN	04/27/2005 / 12:05	13.1	17.4	6.7	122	8	---	---	---	---	---	---
SWCR_ASKIN	04/27/2005 / 12:06	14.4	17.4	6.7	122	7.8	---	---	---	---	---	---
SWCR_ASKIN	05/24/2005 / 11:19	0.3	21.3	6.8	140	7.4	10	---	---	---	---	---
SWCR_ASKIN	05/24/2005 / 11:20	3.3	21.4	6.7	140	6	---	---	---	---	---	---
SWCR_ASKIN	05/24/2005 / 11:21	6.6	21.4	6.7	141	5.4	---	---	---	---	---	---
SWCR_ASKIN	05/24/2005 / 11:22	7.9	21.4	---	---	---	---	---	0.08	0.58	---	---
SWCR_ASKIN	05/24/2005 / 11:23	9.8	21.4	6.7	141	5.3	---	---	---	---	---	---
SWCR_ASKIN	05/24/2005 / 11:24	13.1	21.4	6.6	142	5.3	---	---	---	---	---	---
SWCR_ASKIN	05/24/2005 / 11:25	14.1	21.4	6.6	140	5.2	---	---	---	---	---	---
SWCR_ASKIN	06/21/2005 / 12:18	0.3	26.7	6.5	156	[4.8]	8.1	---	---	---	---	1
SWCR_ASKIN	06/21/2005 / 12:19	3.3	25.6	6.5	154	[4.4]	---	---	---	---	---	---
SWCR_ASKIN	06/21/2005 / 12:20	5.9	25.6	---	---	---	---	---	0.06	0.41	---	---
SWCR_ASKIN	06/21/2005 / 12:21	6.6	25.1	6.5	154	[4.0]	---	---	---	---	---	---
SWCR_ASKIN	06/21/2005 / 12:22	9.8	25	6.5	154	[3.7]	---	---	---	---	---	---
SWCR_ASKIN	06/21/2005 / 12:23	13.1	25	6.5	154	[3.7]	---	---	---	---	---	---
SWCR_ASKIN	06/21/2005 / 12:24	16.4	25	6.5	154	[3.7]	---	---	---	---	---	---
SWCR_ASKIN	07/19/2005 / 12:58	0.3	28	7.4	97	[4.6]	4.5	---	---	---	---	---
SWCR_ASKIN	07/19/2005 / 12:59	3.3	27.6	7	97	[4.1]	---	---	---	---	---	---
SWCR_ASKIN	07/19/2005 / 13:00	5.9	27.6	---	---	---	---	---	0.07	0.25	---	---
SWCR_ASKIN	07/19/2005 / 13:01	6.6	26.3	6.8	96	[3.4]	---	---	---	---	---	---
SWCR_ASKIN	07/19/2005 / 13:02	9.8	26.2	6.7	96	[3.2]	---	---	---	---	---	---
SWCR_ASKIN	07/19/2005 / 13:03	13.1	26.2	6.6	96	[3.2]	---	---	---	---	---	---
SWCR_ASKIN	07/19/2005 / 13:04	14.4	26.2	6.6	97	[3.0]	---	---	---	---	---	---
SWCR_ASKIN	08/16/2005 / 11:54	0.3	32	7	145	7	12	---	---	---	---	---
SWCR_ASKIN	08/16/2005 / 11:55	3.3	30.1	6.9	142	5.8	---	---	---	---	---	---
SWCR_ASKIN	08/16/2005 / 11:56	4.3	30.1	---	---	---	---	---	0.03	0.49	---	---
SWCR_ASKIN	08/16/2005 / 11:57	6.6	29.5	6.8	143	5.3	---	---	---	---	---	---
SWCR_ASKIN	08/16/2005 / 11:58	9.8	29.2	6.7	143	[4.6]	---	---	---	---	---	---
SWCR_ASKIN	08/16/2005 / 11:59	13.1	27.5	6.5	136	[2.3]	---	---	---	---	---	---
SWCR_ASKIN	08/16/2005 / 12:00	14.4	27	6.4	132	[1.9]	---	---	---	---	---	---
SWCR_ASKIN	10/12/2005 / 11:33	0.3	21.9	6.2	63	[4.7]	5.4	---	---	---	---	0.72
SWCR_ASKIN	10/12/2005 / 11:34	3.3	21.9	6.1	63	[3.9]	---	---	---	---	---	---
SWCR_ASKIN	10/12/2005 / 11:35	4.6	21.9	---	---	---	---	---	0.03	0.33	---	---
SWCR_ASKIN	10/12/2005 / 11:36	6.6	21.9	6.1	63	[3.7]	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_ASKIN	03/30/2005 / 12:25	3.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/30/2005 / 12:26	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/30/2005 / 12:27	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/30/2005 / 12:28	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/30/2005 / 12:29	16.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/27/2005 / 12:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/27/2005 / 12:01	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/27/2005 / 12:02	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/27/2005 / 12:03	7.5	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/27/2005 / 12:04	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/27/2005 / 12:05	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/27/2005 / 12:06	14.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/24/2005 / 11:19	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/24/2005 / 11:20	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/24/2005 / 11:21	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/24/2005 / 11:22	7.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/24/2005 / 11:23	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/24/2005 / 11:24	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/24/2005 / 11:25	14.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/21/2005 / 12:18	0.3	---	0.42	<0.005	<0.002	<0.025	0.0027	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	06/21/2005 / 12:19	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/21/2005 / 12:20	5.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/21/2005 / 12:21	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/21/2005 / 12:22	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/21/2005 / 12:23	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/21/2005 / 12:24	16.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/19/2005 / 12:58	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/19/2005 / 12:59	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/19/2005 / 13:00	5.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/19/2005 / 13:01	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/19/2005 / 13:02	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/19/2005 / 13:03	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/19/2005 / 13:04	14.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/16/2005 / 11:54	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/16/2005 / 11:55	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/16/2005 / 11:56	4.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/16/2005 / 11:57	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/16/2005 / 11:58	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/16/2005 / 11:59	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/16/2005 / 12:00	14.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/12/2005 / 11:33	0.3	---	0.66	<0.005	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	0.01
SWCR_ASKIN	10/12/2005 / 11:34	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/12/2005 / 11:35	4.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/12/2005 / 11:36	6.6	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_ASKIN	10/12/2005 / 11:37	9.8	21.9	6.1	63	[3.6]	---	---	---	---	---	---
SWCR_ASKIN	10/12/2005 / 11:38	13.1	21.9	6.1	63	[3.5]	---	---	---	---	---	---
SWCR_ASKIN	10/12/2005 / 11:39	15.4	21.9	6.1	63	[3.6]	---	---	---	---	---	---
SWCR_ASKIN	11/07/2005 / 12:10	0.3	16.8	6.6	152	6.9	4.8	---	---	---	---	---
SWCR_ASKIN	11/07/2005 / 12:11	3.3	15.2	6.5	147	6.7	---	---	---	---	---	---
SWCR_ASKIN	11/07/2005 / 12:12	3.9	15.2	---	---	---	---	---	0.04	0.75	---	---
SWCR_ASKIN	11/07/2005 / 12:13	6.6	15	6.5	146	6.6	---	---	---	---	---	---
SWCR_ASKIN	11/07/2005 / 12:14	9.8	14	6.4	139	6.2	---	---	---	---	---	---
SWCR_ASKIN	11/07/2005 / 12:15	12.8	13.8	6.4	142	5.7	---	---	---	---	---	---
SWCR_ASKIN	12/07/2005 / 14:13	0.3	10.1	7.1	131	7.8	3.5	---	---	---	---	0.81
SWCR_ASKIN	12/07/2005 / 14:14	3.3	9.9	6.9	131	6.4	---	---	---	---	---	---
SWCR_ASKIN	12/07/2005 / 14:15	6.6	10.1	6.8	131	6.2	---	---	0.04	0.49	---	---
SWCR_ASKIN	12/07/2005 / 14:16	9.8	10	6.8	131	6.1	---	---	---	---	---	---
SWCR_ASKIN	12/07/2005 / 14:17	11.8	9.9	6.7	131	6	---	---	---	---	---	---
SWCR_ASKIN	01/04/2006 / 12:08	0.3	9.5	6.6	104	9.7	7.1	---	---	---	---	---
SWCR_ASKIN	01/04/2006 / 12:09	3.3	9.4	6.5	105	9.4	---	---	---	---	---	---
SWCR_ASKIN	01/04/2006 / 12:10	6.6	9.4	6.5	105	9.1	---	---	---	---	---	---
SWCR_ASKIN	01/04/2006 / 12:11	7.9	9.4	---	---	---	---	---	0.03	0.67	---	---
SWCR_ASKIN	01/04/2006 / 12:12	9.8	9.4	6.4	104	9	---	---	---	---	---	---
SWCR_ASKIN	01/04/2006 / 12:13	13.1	9.4	6.4	104	8.9	---	---	---	---	---	---
SWCR_ASKIN	01/04/2006 / 12:14	15.4	9.4	6.4	105	8.9	---	---	---	---	---	---
SWCR_ASKIN	02/01/2006 / 12:30	0.3	8.6	6.8	118	13.5	6.2	---	---	---	---	---
SWCR_ASKIN	02/01/2006 / 12:31	3.3	8.5	6.8	118	11	---	---	---	---	---	---
SWCR_ASKIN	02/01/2006 / 12:32	5.9	8.5	---	---	---	---	---	0.02	0.68	---	---
SWCR_ASKIN	02/01/2006 / 12:33	6.6	8.5	6.7	118	10.8	---	---	---	---	---	---
SWCR_ASKIN	02/01/2006 / 12:34	9.8	8.5	6.7	118	10.7	---	---	---	---	---	---
SWCR_ASKIN	02/01/2006 / 12:35	13.1	8.5	6.7	118	10.7	---	---	---	---	---	---
SWCR_ASKIN	02/01/2006 / 12:36	13.8	8.5	6.7	118	10.7	---	---	---	---	---	---
SWCR_ASKIN	03/01/2006 / 12:00	0.3	10.7	6.9	146	9.4	6.7	---	---	---	---	---
SWCR_ASKIN	03/01/2006 / 12:01	3.3	9.5	6.8	145	9.3	---	---	---	---	---	---
SWCR_ASKIN	03/01/2006 / 12:02	4.6	9.5	---	---	---	---	---	0.04	0.58	---	---
SWCR_ASKIN	03/01/2006 / 12:03	6.6	9.2	6.7	145	9.1	---	---	---	---	---	---
SWCR_ASKIN	03/01/2006 / 12:04	9.8	9	6.7	146	9.1	---	---	---	---	---	---
SWCR_ASKIN	03/01/2006 / 12:05	13.1	9	6.7	146	9.1	---	---	---	---	---	---
SWCR_ASKIN	03/01/2006 / 12:06	16.4	9	6.7	146	9	---	---	---	---	---	---
SWCR_ASKIN	03/29/2006 / 11:36	0.3	12	7.2	123	9	9.2	---	---	---	---	0.75
SWCR_ASKIN	03/29/2006 / 11:37	3.3	11	7	123	8.7	---	---	---	---	---	---
SWCR_ASKIN	03/29/2006 / 11:38	5.9	11	---	---	---	---	---	<0.02	0.36	---	---
SWCR_ASKIN	03/29/2006 / 11:39	6.6	10.4	6.9	122	8.6	---	---	---	---	---	---
SWCR_ASKIN	03/29/2006 / 11:40	9.8	10.3	6.9	123	8.6	---	---	---	---	---	---
SWCR_ASKIN	03/29/2006 / 11:41	13.1	10.3	6.8	126	8.4	---	---	---	---	---	---
SWCR_ASKIN	04/24/2006 / 11:34	0.3	23.7	7.8	180	10	4.3	---	---	---	---	---
SWCR_ASKIN	04/24/2006 / 11:35	3.3	23	7.5	180	8	---	---	---	---	---	---
SWCR_ASKIN	04/24/2006 / 11:36	5.2	23	---	---	---	---	---	0.02	0.23	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_ASKIN	10/12/2005 / 11:37	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/12/2005 / 11:38	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/12/2005 / 11:39	15.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/07/2005 / 12:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/07/2005 / 12:11	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/07/2005 / 12:12	3.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/07/2005 / 12:13	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/07/2005 / 12:14	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/07/2005 / 12:15	12.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/07/2005 / 14:13	0.3	---	0.3	<0.005	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	12/07/2005 / 14:14	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/07/2005 / 14:15	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/07/2005 / 14:16	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/07/2005 / 14:17	11.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/04/2006 / 12:08	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/04/2006 / 12:09	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/04/2006 / 12:10	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/04/2006 / 12:11	7.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/04/2006 / 12:12	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/04/2006 / 12:13	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/04/2006 / 12:14	15.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/01/2006 / 12:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/01/2006 / 12:31	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/01/2006 / 12:32	5.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/01/2006 / 12:33	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/01/2006 / 12:34	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/01/2006 / 12:35	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/01/2006 / 12:36	13.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/01/2006 / 12:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/01/2006 / 12:01	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/01/2006 / 12:02	4.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/01/2006 / 12:03	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/01/2006 / 12:04	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/01/2006 / 12:05	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/01/2006 / 12:06	16.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/29/2006 / 11:36	0.3	0.017	0.63	<0.005	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	03/29/2006 / 11:37	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/29/2006 / 11:38	5.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/29/2006 / 11:39	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/29/2006 / 11:40	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/29/2006 / 11:41	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/24/2006 / 11:34	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/24/2006 / 11:35	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/24/2006 / 11:36	5.2	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_ASKIN	04/24/2006 / 11:37	6.6	21.4	7.3	174	6.4	---	---	---	---	---	---
SWCR_ASKIN	04/24/2006 / 11:38	9.8	20.2	6.9	172	[4.5]	---	---	---	---	---	---
SWCR_ASKIN	04/24/2006 / 11:39	13.1	20.1	6.9	173	[4.3]	---	---	---	---	---	---
SWCR_ASKIN	05/24/2006 / 11:33	0.3	21.8	7.7	121	5.5	13	---	---	---	---	---
SWCR_ASKIN	05/24/2006 / 11:34	3.3	21.4	7.3	122	5	---	---	---	---	---	---
SWCR_ASKIN	05/24/2006 / 11:35	3.9	21.4	---	---	---	---	---	0.07	0.89	---	---
SWCR_ASKIN	05/24/2006 / 11:36	6.6	20.7	7.2	122	5	---	---	---	---	---	---
SWCR_ASKIN	05/24/2006 / 11:37	9.8	20.7	7	122	[4.8]	---	---	---	---	---	---
SWCR_ASKIN	05/24/2006 / 11:38	13.1	20.7	6.9	122	[4.7]	---	---	---	---	---	---
SWCR_ASKIN	05/24/2006 / 11:39	14.8	20.7	6.9	122	[4.6]	---	---	---	---	---	---
SWCR_ASKIN	06/20/2006 / 12:12	0.3	26.3	7.4	132	8.3	9.1	---	---	---	---	1
SWCR_ASKIN	06/20/2006 / 12:13	3.3	26.1	7.2	132	8.1	---	---	---	---	---	---
SWCR_ASKIN	06/20/2006 / 12:14	4.6	26.1	---	---	---	---	---	<0.02	0.34	---	---
SWCR_ASKIN	06/20/2006 / 12:15	6.6	23.4	6.6	119	[4.0]	---	---	---	---	---	---
SWCR_ASKIN	06/20/2006 / 12:16	9.8	23.1	6.4	122	[3.1]	---	---	---	---	---	---
SWCR_ASKIN	06/20/2006 / 12:17	12.8	23.1	6.4	123	[2.9]	---	---	---	---	---	---
SWCR_ASKIN	07/18/2006 / 11:12	0.3	29.9	6.9	138	5.6	7.6	---	---	---	---	---
SWCR_ASKIN	07/18/2006 / 11:13	3.3	29.3	6.7	138	[4.6]	---	---	---	---	---	---
SWCR_ASKIN	07/18/2006 / 11:14	5.2	29.3	---	---	---	---	---	0.03	0.29	---	---
SWCR_ASKIN	07/18/2006 / 11:15	6.6	28.7	6.6	136	[3.8]	---	---	---	---	---	---
SWCR_ASKIN	07/18/2006 / 11:16	9.8	27.8	6.4	134	[2.6]	---	---	---	---	---	---
SWCR_ASKIN	07/18/2006 / 11:17	10.8	27.7	6.4	134	[2.2]	---	---	---	---	---	---
SWCR_ASKIN	08/15/2006 / 11:23	0.3	27.9	6.9	186	5.2	3.3	---	---	---	---	---
SWCR_ASKIN	08/15/2006 / 11:24	3.3	26.9	6.6	184	[3.7]	---	---	---	---	---	---
SWCR_ASKIN	08/15/2006 / 11:25	5.9	26.9	---	---	---	---	---	0.06	0.09	---	---
SWCR_ASKIN	08/15/2006 / 11:26	6.6	26.7	6.5	184	[3.1]	---	---	---	---	---	---
SWCR_ASKIN	08/15/2006 / 11:27	9.8	26.6	6.5	184	[2.5]	---	---	---	---	---	---
SWCR_ASKIN	08/15/2006 / 11:28	13.1	26.5	6.4	183	[1.8]	---	---	---	---	---	---
SWCR_ASKIN	08/15/2006 / 11:29	14.8	26.5	6.5	183	[1.6]	---	---	---	---	---	---
SWCR_ASKIN	09/13/2006 / 11:40	0.3	21.2	6.8	86	[0.8]	3.8	---	---	---	---	1.2
SWCR_ASKIN	09/13/2006 / 11:41	3.3	21.2	6.6	84	[0.5]	---	---	---	---	---	---
SWCR_ASKIN	09/13/2006 / 11:42	5.2	21.2	---	---	---	---	---	0.03	0.04	---	---
SWCR_ASKIN	09/13/2006 / 11:43	6.6	21.1	6.5	83	[0.4]	---	---	---	---	---	---
SWCR_ASKIN	09/13/2006 / 11:44	9.8	21.1	6.5	83	[0.4]	---	---	---	---	---	---
SWCR_ASKIN	09/13/2006 / 11:45	13.1	21.1	6.4	83	[0.4]	---	---	---	---	---	---
SWCR_ASKIN	10/11/2006 / 11:40	0.3	20.5	7	326	---	2	---	---	---	---	---
SWCR_ASKIN	10/11/2006 / 11:41	3.3	20.4	6.7	328	---	---	---	---	---	---	---
SWCR_ASKIN	10/11/2006 / 11:42	6.6	20.4	6.5	326	---	---	---	0.05	0.16	---	---
SWCR_ASKIN	10/11/2006 / 11:43	9.8	20.4	6.4	330	---	---	---	---	---	---	---
SWCR_ASKIN	10/11/2006 / 11:44	13.1	20.4	6.3	329	---	---	---	---	---	---	---
SWCR_ASKIN	10/11/2006 / 11:45	16.1	20.4	6.3	341	---	---	---	---	---	---	---
SWCR_ASKIN	11/08/2006 / 11:47	0.3	13.8	6.4	140	5.1	3.3	---	---	---	---	---
SWCR_ASKIN	11/08/2006 / 11:48	3.3	12.9	6.1	140	[4.5]	---	---	---	---	---	---
SWCR_ASKIN	11/08/2006 / 11:49	6.2	12.9	---	---	---	---	---	0.02	0.51	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_ASKIN	04/24/2006 / 11:37	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/24/2006 / 11:38	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/24/2006 / 11:39	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/24/2006 / 11:33	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/24/2006 / 11:34	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/24/2006 / 11:35	3.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/24/2006 / 11:36	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/24/2006 / 11:37	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/24/2006 / 11:38	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/24/2006 / 11:39	14.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/20/2006 / 12:12	0.3	0.032	0.56	<0.005	<0.002	<0.025	[0.0041]	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	06/20/2006 / 12:13	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/20/2006 / 12:14	4.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/20/2006 / 12:15	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/20/2006 / 12:16	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/20/2006 / 12:17	12.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/18/2006 / 11:12	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/18/2006 / 11:13	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/18/2006 / 11:14	5.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/18/2006 / 11:15	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/18/2006 / 11:16	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/18/2006 / 11:17	10.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/15/2006 / 11:23	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/15/2006 / 11:24	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/15/2006 / 11:25	5.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/15/2006 / 11:26	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/15/2006 / 11:27	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/15/2006 / 11:28	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/15/2006 / 11:29	14.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/13/2006 / 11:40	0.3	0.14	0.38	<0.005	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	09/13/2006 / 11:41	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/13/2006 / 11:42	5.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/13/2006 / 11:43	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/13/2006 / 11:44	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/13/2006 / 11:45	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/11/2006 / 11:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/11/2006 / 11:41	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/11/2006 / 11:42	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/11/2006 / 11:43	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/11/2006 / 11:44	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/11/2006 / 11:45	16.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/08/2006 / 11:47	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/08/2006 / 11:48	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/08/2006 / 11:49	6.2	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_ASKIN	11/08/2006 / 11:50	6.6	12.9	6.1	140	[4.0]	---	---	---	---	---	---
SWCR_ASKIN	11/08/2006 / 11:51	9.8	12.9	6	140	[4.1]	---	---	---	---	---	---
SWCR_ASKIN	11/08/2006 / 11:52	13.1	12.9	6	140	[3.9]	---	---	---	---	---	---
SWCR_ASKIN	12/05/2006 / 11:36	0.3	11.9	6.1	102	5.8	6.5	---	---	---	---	0.94
SWCR_ASKIN	12/05/2006 / 11:37	3.3	11.9	6	102	[3.9]	---	---	---	---	---	---
SWCR_ASKIN	12/05/2006 / 11:38	4.6	11.9	---	---	---	---	---	0.04	0.27	---	---
SWCR_ASKIN	12/05/2006 / 11:39	6.6	11.8	5.9	101	[3.5]	---	---	---	---	---	---
SWCR_ASKIN	12/05/2006 / 11:40	9.8	11.8	5.9	101	[3.3]	---	---	---	---	---	---
SWCR_ASKIN	12/05/2006 / 11:41	13.1	11.8	5.9	101	[3.5]	---	---	---	---	---	---
SWCR_ASKIN	12/05/2006 / 11:42	15.1	11.8	5.9	101	[3.2]	---	---	---	---	---	---
SWCR_ASKIN	01/03/2007 / 11:40	0.3	12.2	6.1	100	7.2	6.7	---	---	---	---	---
SWCR_ASKIN	01/03/2007 / 11:41	3.3	11.5	5.9	101	7	---	---	---	---	---	---
SWCR_ASKIN	01/03/2007 / 11:42	5.2	11.5	---	---	---	---	---	0.04	0.46	---	---
SWCR_ASKIN	01/03/2007 / 11:43	6.6	11.4	5.9	101	7	---	---	---	---	---	---
SWCR_ASKIN	01/03/2007 / 11:44	9.8	11.4	5.8	101	7.1	---	---	---	---	---	---
SWCR_ASKIN	01/30/2007 / 10:20	0.3	6.1	6.8	109	12.1	9	---	---	---	---	---
SWCR_ASKIN	01/30/2007 / 10:21	3.3	6.1	6.3	108	11	---	---	---	---	---	---
SWCR_ASKIN	01/30/2007 / 10:22	4.6	6.1	---	---	---	---	---	<0.02	0.65	---	---
SWCR_ASKIN	01/30/2007 / 10:23	6.6	6.1	6.2	109	10.7	---	---	---	---	---	---
SWCR_ASKIN	01/30/2007 / 10:24	7.9	6.1	6.1	120	10.3	---	---	---	---	---	---
SWCR_ASKIN	02/27/2007 / 11:59	0.3	10.7	7.5	137	9.9	5.4	---	---	---	---	---
SWCR_ASKIN	02/27/2007 / 12:00	3.3	9.4	7.3	137	9.5	---	---	---	---	---	---
SWCR_ASKIN	02/27/2007 / 12:01	6.6	9.2	7.2	137	9.5	---	---	---	---	---	---
SWCR_ASKIN	02/27/2007 / 12:02	8.2	9.3	7.2	138	9.3	---	---	0.05	0.63	---	---
SWCR_ASKIN	03/27/2007 / 11:40	0.3	17.9	6.6	126	8.3	10	---	---	---	---	0.83
SWCR_ASKIN	03/27/2007 / 11:41	3.3	16.8	6.4	127	7.3	---	---	---	---	---	---
SWCR_ASKIN	03/27/2007 / 11:42	5.2	16.8	---	---	---	---	---	0.02	0.19	---	---
SWCR_ASKIN	03/27/2007 / 11:43	6.6	15.2	6.2	129	5.9	---	---	---	---	---	---
SWCR_ASKIN	03/27/2007 / 11:44	9.8	15.1	6.1	126	6	---	---	---	---	---	---
SWCR_ASKIN	03/27/2007 / 11:45	13.1	15.1	6.1	126	5.9	---	---	---	---	---	---
SWCR_ASKIN	04/24/2007 / 12:30	0.3	19.9	6.1	105	6.2	7.6	---	---	---	---	---
SWCR_ASKIN	04/24/2007 / 12:31	3.3	17.6	6	104	5.9	---	---	---	---	---	---
SWCR_ASKIN	04/24/2007 / 12:32	4.6	17.6	---	---	---	---	---	0.04	0.31	---	---
SWCR_ASKIN	04/24/2007 / 12:33	6.6	16.9	5.9	103	5.4	---	---	---	---	---	---
SWCR_ASKIN	04/24/2007 / 12:34	9.8	16.1	5.8	103	[4.8]	---	---	---	---	---	---
SWCR_ASKIN	04/24/2007 / 12:35	12.1	15.9	5.8	104	[4.6]	---	---	---	---	---	---
SWCR_ASKIN	05/22/2007 / 11:35	0.3	22.3	7	157	5.5	8.8	---	---	---	---	---
SWCR_ASKIN	05/22/2007 / 11:36	3.3	22.2	6.9	157	5.3	---	---	---	---	---	---
SWCR_ASKIN	05/22/2007 / 11:37	5.2	22.2	---	---	---	---	---	0.08	0.57	---	---
SWCR_ASKIN	05/22/2007 / 11:38	6.6	21.4	6.8	157	5.1	---	---	---	---	---	---
SWCR_ASKIN	05/22/2007 / 11:39	9.8	21.4	6.8	157	[4.9]	---	---	---	---	---	---
SWCR_ASKIN	05/22/2007 / 11:40	11.8	21.3	6.8	157	[4.8]	---	---	---	---	---	---
SWCR_ASKIN	06/19/2007 / 11:30	0.3	27	7.2	148	8.2	5.5	---	---	---	---	---
SWCR_ASKIN	06/19/2007 / 11:31	3.3	26.1	7	176	7.4	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_ASKIN	11/08/2006 / 11:50	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/08/2006 / 11:51	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/08/2006 / 11:52	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/05/2006 / 11:36	0.3	0.051	0.48	<0.005	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_ASKIN	12/05/2006 / 11:37	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/05/2006 / 11:38	4.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/05/2006 / 11:39	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/05/2006 / 11:40	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/05/2006 / 11:41	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/05/2006 / 11:42	15.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/03/2007 / 11:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/03/2007 / 11:41	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/03/2007 / 11:42	5.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/03/2007 / 11:43	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/03/2007 / 11:44	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/30/2007 / 10:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/30/2007 / 10:21	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/30/2007 / 10:22	4.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/30/2007 / 10:23	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	01/30/2007 / 10:24	7.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/27/2007 / 11:59	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/27/2007 / 12:00	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/27/2007 / 12:01	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	02/27/2007 / 12:02	8.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/27/2007 / 11:40	0.3	---	0.5	<0.005	<0.001	<0.01	<0.002	<0.01	---	<0.01	<0.01
SWCR_ASKIN	03/27/2007 / 11:41	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/27/2007 / 11:42	5.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/27/2007 / 11:43	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/27/2007 / 11:44	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	03/27/2007 / 11:45	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/24/2007 / 12:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/24/2007 / 12:31	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/24/2007 / 12:32	4.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/24/2007 / 12:33	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/24/2007 / 12:34	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	04/24/2007 / 12:35	12.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/22/2007 / 11:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/22/2007 / 11:36	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/22/2007 / 11:37	5.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/22/2007 / 11:38	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/22/2007 / 11:39	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	05/22/2007 / 11:40	11.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/19/2007 / 11:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/19/2007 / 11:31	3.3	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_ASKIN	06/19/2007 / 11:32	5.9	26.1	---	---	---	---	---	0.03	0.29	---	---
SWCR_ASKIN	06/19/2007 / 11:33	6.6	25.7	7	176	6.8	---	---	---	---	---	---
SWCR_ASKIN	06/19/2007 / 11:34	9.8	24.6	6.7	189	[3.6]	---	---	---	---	---	---
SWCR_ASKIN	06/19/2007 / 11:35	13.1	23.8	6.6	192	[2.1]	---	---	---	---	---	---
SWCR_ASKIN	07/18/2007 / 11:20	0.3	29.7	7.1	157	7.5	4.2	---	---	---	---	---
SWCR_ASKIN	07/18/2007 / 11:21	3.3	29.6	6.9	158	6.4	---	---	---	---	---	---
SWCR_ASKIN	07/18/2007 / 11:22	6.6	28.2	6.6	156	[2.3]	---	---	---	---	---	---
SWCR_ASKIN	07/18/2007 / 11:23	7.2	28.2	---	---	---	---	---	0.04	0.09	---	---
SWCR_ASKIN	07/18/2007 / 11:24	9.8	28.1	6.6	156	[1.8]	---	---	---	---	---	---
SWCR_ASKIN	08/14/2007 / 10:55	0.3	30.7	7.1	438	7.7	5.5	---	---	---	---	---
SWCR_ASKIN	08/14/2007 / 10:56	3.3	30.1	7	453	7.1	---	---	---	---	---	---
SWCR_ASKIN	08/14/2007 / 10:57	4.6	30.1	---	---	---	---	---	0.02	0.04	---	---
SWCR_ASKIN	08/14/2007 / 10:58	6.6	29.8	6.9	468	6.4	---	---	---	---	---	---
SWCR_ASKIN	08/14/2007 / 10:59	9.8	29.1	6.7	2009	[1.8]	---	---	---	---	---	---
SWCR_ASKIN	08/14/2007 / 11:00	13.1	29	6.7	2069	[1.3]	---	---	---	---	---	---
SWCR_ASKIN	08/14/2007 / 11:01	14.4	29	6.7	2073	[1.3]	---	---	---	---	---	---
SWCR_ASKIN	09/12/2007 / 11:45	0.3	27.8	7.1	2465	7.2	5.9	---	---	---	---	---
SWCR_ASKIN	09/12/2007 / 11:46	3.3	27.7	6.9	2638	5.5	---	---	---	---	---	---
SWCR_ASKIN	09/12/2007 / 11:47	5.2	27.7	---	---	---	---	---	0.14	0.18	---	---
SWCR_ASKIN	09/12/2007 / 11:48	6.6	27.7	6.7	3780	[4.5]	---	---	---	---	---	---
SWCR_ASKIN	09/12/2007 / 11:49	9.8	27.6	6.7	4742	[3.7]	---	---	---	---	---	---
SWCR_ASKIN	09/12/2007 / 11:50	13.1	26.7	6.5	6776	[0.8]	---	---	---	---	---	---
SWCR_ASKIN	10/09/2007 / 10:45	0.3	26.5	6.9	2309	6.7	3.1	---	---	---	---	---
SWCR_ASKIN	10/09/2007 / 10:46	3.3	25.1	6.7	2693	[4.8]	---	---	---	---	---	---
SWCR_ASKIN	10/09/2007 / 10:47	5.2	25.1	---	---	---	---	---	0.02	0.09	---	---
SWCR_ASKIN	10/09/2007 / 10:48	6.6	24.9	6.6	2908	[3.4]	---	---	---	---	---	---
SWCR_ASKIN	10/09/2007 / 10:49	9.8	24.5	6.6	5366	[0.7]	---	---	---	---	---	---
SWCR_ASKIN	10/09/2007 / 10:50	13.1	24.8	6.7	10105	[0.2]	---	---	---	---	---	---
SWCR_ASKIN	10/09/2007 / 10:51	14.1	24.8	6.7	10141	[0.2]	---	---	---	---	---	---
SWCR_ASKIN	11/06/2007 / 11:40	0.3	15.3	7.2	782	5.9	7.3	---	---	---	---	---
SWCR_ASKIN	11/06/2007 / 11:41	3.3	15.2	6.8	826	5.7	---	---	---	---	---	---
SWCR_ASKIN	11/06/2007 / 11:42	6.6	15.2	6.7	1277	5	---	---	0.08	0.31	---	---
SWCR_ASKIN	11/06/2007 / 11:43	9.8	15.6	6.7	2153	[3.2]	---	---	---	---	---	---
SWCR_ASKIN	11/06/2007 / 11:44	13.1	15.6	6.7	2233	[3.1]	---	---	---	---	---	---
SWCR_ASKIN	12/05/2007 / 11:00	0.3	9.8	7	4800	9.3	3.4	---	---	---	---	---
SWCR_ASKIN	12/05/2007 / 11:01	3.3	12	6.6	8005	6.6	---	---	---	---	---	---
SWCR_ASKIN	12/05/2007 / 11:02	6.6	12.9	6.7	14011	6.4	---	---	---	---	---	---
SWCR_ASKIN	12/05/2007 / 11:03	9.8	13.1	6.9	16528	6	---	---	---	---	---	---
SWCR_ASKIN	12/05/2007 / 11:04	10.5	13.1	---	---	---	---	---	0.13	0.2	---	---
SWCR_ASKIN	12/05/2007 / 11:05	13.1	13.5	6.9	17129	5.1	---	---	---	---	---	---
SWCR_HWY_43	01/06/1997 / 12:00	0.3	---	---	---	---	---	---	0.06	0.93	---	---
SWCR_HWY_43	01/13/1997 / 11:15	0.3	---	---	---	---	---	---	0.09	0.98	---	---
SWCR_HWY_43	01/15/1997 / 12:10	0.3	---	---	---	---	12	53	<0.01	1.1	---	0.58
SWCR_HWY_43	01/21/1997 / 13:05	0.3	---	---	---	---	---	---	0.04	0.92	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_ASKIN	06/19/2007 / 11:32	5.9	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/19/2007 / 11:33	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/19/2007 / 11:34	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	06/19/2007 / 11:35	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/18/2007 / 11:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/18/2007 / 11:21	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/18/2007 / 11:22	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/18/2007 / 11:23	7.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	07/18/2007 / 11:24	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/14/2007 / 10:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/14/2007 / 10:56	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/14/2007 / 10:57	4.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/14/2007 / 10:58	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/14/2007 / 10:59	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/14/2007 / 11:00	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	08/14/2007 / 11:01	14.4	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/12/2007 / 11:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/12/2007 / 11:46	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/12/2007 / 11:47	5.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/12/2007 / 11:48	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/12/2007 / 11:49	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	09/12/2007 / 11:50	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/09/2007 / 10:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/09/2007 / 10:46	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/09/2007 / 10:47	5.2	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/09/2007 / 10:48	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/09/2007 / 10:49	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/09/2007 / 10:50	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	10/09/2007 / 10:51	14.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/06/2007 / 11:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/06/2007 / 11:41	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/06/2007 / 11:42	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/06/2007 / 11:43	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	11/06/2007 / 11:44	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/05/2007 / 11:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/05/2007 / 11:01	3.3	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/05/2007 / 11:02	6.6	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/05/2007 / 11:03	9.8	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/05/2007 / 11:04	10.5	---	---	---	---	---	---	---	---	---	---
SWCR_ASKIN	12/05/2007 / 11:05	13.1	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/06/1997 / 12:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/13/1997 / 11:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/15/1997 / 12:10	0.3	---	0.63	<0.01	<0.002	<0.025	[0.011]	<0.01	<0.0002	<0.01	0.024
SWCR_HWY_43	01/21/1997 / 13:05	0.3	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_HWY_43	01/27/1997 / 12:45	0.3	---	---	---	---	---	---	0.18	0.83	---	---
SWCR_HWY_43	02/05/1997 / 12:15	0.3	---	---	---	---	---	---	0.01	0.7	---	---
SWCR_HWY_43	02/10/1997 / 12:45	0.3	---	---	---	---	---	---	0.08	0.72	---	---
SWCR_HWY_43	02/17/1997 / 12:20	0.3	---	---	---	---	---	---	0.18	0.82	---	---
SWCR_HWY_43	02/19/1997 / 11:40	0.3	9	6.8	70	9.2	7.8	31	0.11	0.99	---	0.44
SWCR_HWY_43	03/03/1997 / 12:00	0.3	---	---	---	---	---	---	0.12	0.69	---	---
SWCR_HWY_43	03/10/1997 / 13:00	0.3	---	---	---	---	---	---	0.01	0.52	---	---
SWCR_HWY_43	03/18/1997 / 11:10	0.3	13	6.8	70	7.1	19	57	0.07	0.69	---	0.92
SWCR_HWY_43	03/24/1997 / 13:30	0.3	---	---	---	---	---	---	0.03	0.49	---	---
SWCR_HWY_43	03/31/1997 / 12:15	0.3	---	---	---	---	---	---	0.04	0.53	---	---
SWCR_HWY_43	04/07/1997 / 13:30	0.3	---	---	---	---	---	---	0.05	0.5	---	---
SWCR_HWY_43	04/21/1997 / 13:00	0.3	---	---	---	---	---	---	0.06	0.61	---	---
SWCR_HWY_43	04/28/1997 / 11:15	0.3	---	---	---	---	---	---	0.11	0.66	---	---
SWCR_HWY_43	04/30/1997 / 11:10	0.3	15	7	105	5.3	5.2	45	0.05	0.68	---	0.72
SWCR_HWY_43	05/05/1997 / 11:15	0.3	---	---	---	---	---	---	0.03	0.94	---	---
SWCR_HWY_43	05/14/1997 / 11:30	0.3	19	7.1	132	6	5.4	50	0.05	0.81	---	0.74
SWCR_HWY_43	05/21/1997 / 12:30	0.3	---	---	---	---	---	---	0.03	0.72	---	---
SWCR_HWY_43	05/27/1997 / 13:15	0.3	---	---	---	---	---	---	0.08	0.59	---	---
SWCR_HWY_43	06/09/1997 / 12:40	0.3	---	---	---	---	---	---	0.03	0.42	---	---
SWCR_HWY_43	06/16/1997 / 11:00	0.3	---	---	---	---	---	---	0.02	0.35	---	---
SWCR_HWY_43	06/23/1997 / 13:30	0.3	---	---	---	---	2.5	64	0.06	0.34	---	0.67
SWCR_HWY_43	06/30/1997 / 11:00	0.3	---	---	---	---	2.7	50	0.02	0.19	---	0.62
SWCR_HWY_43	07/08/1997 / 08:45	0.3	26.4	6.1	173	[1.8]	---	---	0.03	0.37	---	---
SWCR_HWY_43	07/13/1997 / 08:51	0.3	25.2	6.1	138	[1.7]	---	---	0.02	0.43	---	---
SWCR_HWY_43	07/22/1997 / 08:30	0.3	27	6.4	126	[1.9]	---	---	0.03	0.58	---	---
SWCR_HWY_43	07/28/1997 / 08:45	0.3	25.5	6	82	[2.5]	---	---	<0.01	0.56	---	---
SWCR_HWY_43	08/05/1997 / 08:55	0.3	24.5	6.1	118	[2.1]	---	---	0.07	0.36	---	---
SWCR_HWY_43	08/11/1997 / 09:35	0.3	23.1	5.8	122	[2.8]	---	---	0.03	0.18	---	---
SWCR_HWY_43	08/19/1997 / 14:47	0.3	28.1	6.8	155	[4.1]	---	---	<0.01	0.09	---	---
SWCR_HWY_43	08/25/1997 / 09:03	0.3	24.8	6.6	156	[2.4]	---	---	<0.01	0.11	---	---
SWCR_HWY_43	09/01/1997 / 08:30	0.3	24.5	6.6	170	[2.6]	---	---	0.03	0.09	---	---
SWCR_HWY_43	09/11/1997 / 09:11	0.3	23.5	6.5	182	[2.7]	---	---	<0.01	0.03	---	---
SWCR_HWY_43	09/17/1997 / 10:15	0.3	23.9	6.6	163	[1.8]	---	---	0.02	0.02	---	---
SWCR_HWY_43	09/22/1997 / 09:25	0.3	24.2	6.7	349	[2.6]	---	---	0.03	0.32	---	---
SWCR_HWY_43	09/30/1997 / 08:50	0.3	21.2	6.6	158	[2.0]	---	---	0.02	0.1	---	---
SWCR_HWY_43	10/04/1997 / 08:50	0.3	19.7	6.5	133	[1.9]	---	---	0.02	0.15	---	---
SWCR_HWY_43	10/14/1997 / 09:00	0.3	20.7	7.1	145	[1.9]	---	---	0.05	0.1	---	---
SWCR_HWY_43	10/21/1997 / 08:58	0.3	16.5	6.8	169	[2.6]	---	---	0.03	<0.01	---	---
SWCR_HWY_43	10/28/1997 / 08:45	0.3	15.7	6.5	132	[2.8]	---	---	<0.01	0.03	---	---
SWCR_HWY_43	11/03/1997 / 09:05	0.3	14.9	6.6	146	[3.2]	---	---	0.02	0.12	---	---
SWCR_HWY_43	11/12/1997 / 09:20	0.3	13	6.8	145	[3.2]	---	---	0.03	0.06	---	---
SWCR_HWY_43	11/18/1997 / 08:53	0.3	---	---	---	---	---	---	0.01	0.64	---	---
SWCR_HWY_43	11/25/1997 / 09:12	0.3	9.1	6.2	115	6	---	---	<0.01	1.2	---	---
SWCR_HWY_43	12/03/1997 / 08:55	0.3	---	---	---	---	---	---	<0.01	0.5	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_HWY_43	01/27/1997 / 12:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/05/1997 / 12:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/10/1997 / 12:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/17/1997 / 12:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/19/1997 / 11:40	0.3	---	0.36	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	0.012
SWCR_HWY_43	03/03/1997 / 12:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/10/1997 / 13:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/18/1997 / 11:10	0.3	---	0.7	<0.01	<0.002	<0.025	0.002	<0.01	<0.0002	<0.01	0.021
SWCR_HWY_43	03/24/1997 / 13:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/31/1997 / 12:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/07/1997 / 13:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/21/1997 / 13:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/28/1997 / 11:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/30/1997 / 11:10	0.3	---	0.29	<0.01	<0.002	<0.025	0.002	<0.01	<0.0002	<0.01	0.017
SWCR_HWY_43	05/05/1997 / 11:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/14/1997 / 11:30	0.3	---	0.22	<0.01	<0.002	<0.025	<0.002	<0.01	<0.0002	<0.01	<0.01
SWCR_HWY_43	05/21/1997 / 12:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/27/1997 / 13:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/09/1997 / 12:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/16/1997 / 11:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/23/1997 / 13:30	0.3	---	0.18	<0.01	<0.002	<0.025	0.002	<0.01	<0.0002	<0.01	0.026
SWCR_HWY_43	06/30/1997 / 11:00	0.3	---	0.16	<0.01	<0.002	<0.025	0.0028	<0.01	<0.0002	<0.01	0.044
SWCR_HWY_43	07/08/1997 / 08:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/13/1997 / 08:51	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/22/1997 / 08:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/28/1997 / 08:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/05/1997 / 08:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/11/1997 / 09:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/19/1997 / 14:47	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/25/1997 / 09:03	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/01/1997 / 08:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/11/1997 / 09:11	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/17/1997 / 10:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/22/1997 / 09:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/30/1997 / 08:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/04/1997 / 08:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/14/1997 / 09:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/21/1997 / 08:58	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/28/1997 / 08:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/03/1997 / 09:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/12/1997 / 09:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/18/1997 / 08:53	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/25/1997 / 09:12	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/03/1997 / 08:55	0.3	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_HWY_43	12/10/1997 / 09:35	0.3	---	---	---	---	---	---	0.03	0.91	---	---
SWCR_HWY_43	12/18/1997 / 13:45	0.3	---	---	---	---	---	---	<0.01	0.77	---	---
SWCR_HWY_43	12/23/1997 / 09:05	0.3	---	---	---	---	---	---	<0.01	0.79	---	---
SWCR_HWY_43	12/30/1997 / 14:35	0.3	---	---	---	---	---	---	<0.01	0.87	---	---
SWCR_HWY_43	01/07/1998 / 09:05	0.3	9.6	6.9	100	9	---	---	<0.01	1.2	---	---
SWCR_HWY_43	01/12/1998 / 10:30	0.3	12.1	6.5	95	6	---	---	0.09	0.87	---	---
SWCR_HWY_43	01/21/1998 / 10:15	0.3	5.6	6.2	63	10	---	---	0.01	1	---	---
SWCR_HWY_43	01/26/1998 / 10:20	0.3	8.6	6.5	54	7.5	---	---	0.05	0.79	---	---
SWCR_HWY_43	02/02/1998 / 09:50	0.3	7.2	6.7	63	7.6	---	---	0.15	1	---	---
SWCR_HWY_43	02/09/1998 / 09:45	0.3	8.2	6	37	8.4	---	---	0.1	0.5	---	---
SWCR_HWY_43	02/18/1998 / 14:51	0.3	12.4	6.4	62	7.8	---	---	0.05	0.65	---	---
SWCR_HWY_43	02/25/1998 / 09:50	0.3	10.8	6.4	63	7.1	---	---	0.04	0.74	---	---
SWCR_HWY_43	03/03/1998 / 09:20	0.3	13.9	5.7	82	5.8	---	---	0.06	0.72	---	---
SWCR_HWY_43	03/10/1998 / 09:35	0.3	15.1	6.2	97	6.5	---	---	<0.01	0.75	---	---
SWCR_HWY_43	03/16/1998 / 09:08	0.3	10.6	6.1	68	9.5	---	---	0.05	0.65	---	---
SWCR_HWY_43	03/24/1998 / 10:31	0.3	12.8	5.9	55	6.7	---	---	0.05	0.55	---	---
SWCR_HWY_43	04/01/1998 / 08:57	0.3	20.6	6.1	102	6.1	---	---	0.04	0.65	---	---
SWCR_HWY_43	04/08/1998 / 10:10	0.3	15.9	6.1	81	7.2	---	---	0.02	0.51	---	---
SWCR_HWY_43	04/16/1998 / 09:20	0.3	16.6	6.3	66	5.6	---	---	0.02	0.48	---	---
SWCR_HWY_43	04/23/1998 / 09:10	0.3	16.5	6.1	96	[3.8]	---	---	0.08	0.53	---	---
SWCR_HWY_43	04/29/1998 / 09:20	0.3	16.1	6.4	97	[4.5]	---	---	0.03	0.78	---	---
SWCR_HWY_43	05/05/1998 / 09:10	0.3	18.5	6.3	115	5.1	---	---	0.02	0.65	---	---
SWCR_HWY_43	05/11/1998 / 09:36	0.3	19.1	6.1	68	5.4	---	---	0.07	0.87	---	---
SWCR_HWY_43	05/19/1998 / 11:15	0.3	20.4	5.9	98	[4.1]	---	---	0.06	0.51	---	---
SWCR_HWY_43	05/26/1998 / 09:34	0.3	21.3	5.9	80	[3.3]	---	---	0.11	0.99	---	---
SWCR_HWY_43	06/05/1998 / 09:30	0.3	24.1	6.3	102	[2.7]	---	---	0.02	0.36	---	---
SWCR_HWY_43	06/11/1998 / 10:30	0.3	21.1	5.7	101	[4.0]	---	---	0.1	0.76	---	---
SWCR_HWY_43	06/17/1998 / 09:38	0.3	24.9	6.2	92	[3.9]	---	---	0.08	0.8	---	---
SWCR_HWY_43	06/24/1998 / 13:10	0.3	26.6	6.8	116	[2.0]	---	---	0.15	0.47	---	---
SWCR_HWY_43	06/29/1998 / 09:25	0.3	27.3	6.2	143	[1.7]	---	---	0.13	0.5	---	---
SWCR_HWY_43	07/07/1998 / 09:15	0.3	26	6.5	157	[2.3]	---	---	0.15	0.41	---	---
SWCR_HWY_43	07/13/1998 / 09:35	0.3	25.8	---	105	[2.4]	---	---	0.1	0.51	---	---
SWCR_HWY_43	07/20/1998 / 09:20	0.3	26.3	5.6	121	[2.9]	---	---	0.2	0.41	---	---
SWCR_HWY_43	07/27/1998 / 09:56	0.3	---	---	---	---	---	---	0.17	0.32	---	---
SWCR_HWY_43	08/06/1998 / 09:45	0.3	23.4	5.7	133	[1.9]	---	---	0.1	0.12	---	---
SWCR_HWY_43	08/10/1998 / 09:30	0.3	25.3	6.4	133	[2.2]	---	---	0.09	0.12	---	---
SWCR_HWY_43	08/17/1998 / 10:20	0.3	26.2	6.5	152	[1.9]	---	---	0.11	0.13	---	---
SWCR_HWY_43	08/31/1998 / 09:21	0.3	25.7	5.9	82	[2.1]	---	---	<0.01	0.08	2.1	---
SWCR_HWY_43	09/08/1998 / 09:20	0.3	24.7	6.3	108	[2.8]	---	---	0.05	0.39	---	---
SWCR_HWY_43	09/17/1998 / 09:45	0.3	---	---	---	---	---	---	0.1	0.47	---	---
SWCR_HWY_43	09/24/1998 / 09:15	0.3	23.7	5.9	135	[2.2]	---	---	<0.01	0.22	---	---
SWCR_HWY_43	10/02/1998 / 10:55	0.3	23.7	6	163	[1.8]	---	---	0.03	0.13	---	---
SWCR_HWY_43	10/05/1998 / 09:40	0.3	22.1	6	160	[1.4]	---	---	0.11	0.15	---	---
SWCR_HWY_43	10/15/1998 / 09:23	0.3	19.4	6.3	382	[2.2]	---	---	0.17	0.18	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_HWY_43	12/10/1997 / 09:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/18/1997 / 13:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/23/1997 / 09:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/30/1997 / 14:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/07/1998 / 09:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/12/1998 / 10:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/21/1998 / 10:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/26/1998 / 10:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/02/1998 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/09/1998 / 09:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/18/1998 / 14:51	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/25/1998 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/03/1998 / 09:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/10/1998 / 09:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/16/1998 / 09:08	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/24/1998 / 10:31	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/01/1998 / 08:57	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/08/1998 / 10:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/16/1998 / 09:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/23/1998 / 09:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/29/1998 / 09:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/05/1998 / 09:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/11/1998 / 09:36	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/19/1998 / 11:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/26/1998 / 09:34	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/05/1998 / 09:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/11/1998 / 10:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/17/1998 / 09:38	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/24/1998 / 13:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/29/1998 / 09:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/07/1998 / 09:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/13/1998 / 09:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/20/1998 / 09:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/27/1998 / 09:56	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/06/1998 / 09:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/10/1998 / 09:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/17/1998 / 10:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/31/1998 / 09:21	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/08/1998 / 09:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/17/1998 / 09:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/24/1998 / 09:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/02/1998 / 10:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/05/1998 / 09:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/15/1998 / 09:23	0.3	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_HWY_43	10/26/1998 / 10:09	0.3	15.8	6.3	164	[3.2]	---	---	0.13	0.2	---	---
SWCR_HWY_43	11/06/1998 / 09:20	0.3	12.7	6.1	162	[3.3]	---	---	<0.01	0.04	---	---
SWCR_HWY_43	11/12/1998 / 09:30	0.3	12.8	6.6	154	[2.7]	---	---	<0.01	0.06	---	---
SWCR_HWY_43	11/16/1998 / 09:55	0.3	12.9	6.5	211	[2.9]	---	---	0.07	0.1	---	---
SWCR_HWY_43	11/23/1998 / 09:05	0.3	12.9	6.7	171	[3.2]	---	---	0.09	0.13	---	---
SWCR_HWY_43	12/03/1998 / 09:00	0.3	13.2	6.6	230	[3.4]	---	---	0.12	0.16	---	---
SWCR_HWY_43	12/09/1998 / 10:00	0.3	14.7	6.1	175	[3.3]	---	---	0.01	0.19	---	---
SWCR_HWY_43	12/16/1998 / 08:47	0.3	12.4	6.7	268	5.6	---	---	<0.01	0.19	---	---
SWCR_HWY_43	12/21/1998 / 09:25	0.3	9.5	---	126	6.7	---	---	0.05	0.67	---	---
SWCR_HWY_43	12/31/1998 / 14:05	0.3	7.3	6.1	77	9.7	---	---	0.06	1.6	---	---
SWCR_HWY_43	01/05/1999 / 09:00	0.3	7.3	5.8	92	8.7	---	---	<0.01	1.5	---	---
SWCR_HWY_43	01/11/1999 / 09:15	0.3	6.3	6.5	143	9.6	---	---	0.02	1.5	---	---
SWCR_HWY_43	01/20/1999 / 08:55	0.3	10.9	6.6	87	8.3	---	---	0.02	1.2	---	---
SWCR_HWY_43	01/26/1999 / 09:00	0.3	13.5	6	105	6.7	---	---	<0.01	0.75	---	---
SWCR_HWY_43	02/03/1999 / 09:00	0.3	10.5	5.7	86	6.9	---	---	<0.01	0.84	---	---
SWCR_HWY_43	02/08/1999 / 08:50	0.3	11.8	6	85	7.6	---	---	<0.01	0.87	---	---
SWCR_HWY_43	02/18/1999 / 09:05	0.3	9.5	6.5	91	8.7	---	---	0.07	0.87	---	---
SWCR_HWY_43	02/25/1999 / 11:45	0.3	6.5	5.8	129	12.1	---	---	0.02	0.85	---	---
SWCR_HWY_43	03/02/1999 / 09:12	0.3	8.5	6.2	102	10.5	---	---	0.05	0.91	---	---
SWCR_HWY_43	03/10/1999 / 10:30	0.3	9.3	7.1	99	8.6	---	---	0.08	0.62	---	---
SWCR_HWY_43	03/18/1999 / 09:20	0.3	10.4	6.5	150	9.5	---	---	0.01	0.68	---	---
SWCR_HWY_43	03/25/1999 / 09:55	0.3	15.1	5.7	92	8	---	---	<0.01	0.46	---	---
SWCR_HWY_43	03/31/1999 / 12:40	0.3	14.7	7.1	92	8.6	---	---	0.03	0.41	---	---
SWCR_HWY_43	04/09/1999 / 09:40	0.3	20	6.6	128	[4.9]	---	---	0.09	0.32	---	---
SWCR_HWY_43	04/13/1999 / 11:00	0.3	17.9	5.8	119	[4.5]	---	---	0.07	0.33	---	---
SWCR_HWY_43	04/20/1999 / 09:00	0.3	16.6	5.6	91	5.7	---	---	0.05	0.44	---	---
SWCR_HWY_43	04/28/1999 / 09:25	0.3	18.2	6.5	125	[3.8]	---	---	0.15	0.34	---	---
SWCR_HWY_43	05/03/1999 / 09:05	0.3	13.6	5.6	156	[3.6]	---	---	0.05	0.3	---	---
SWCR_HWY_43	05/11/1999 / 09:05	0.3	19.3	6.1	145	[3.0]	---	---	0.02	0.36	---	---
SWCR_HWY_43	05/20/1999 / 09:25	0.3	19.1	6.2	169	[2.7]	---	---	0.11	0.3	---	---
SWCR_HWY_43	05/25/1999 / 10:00	0.3	21.3	6.3	148	[2.3]	---	---	0.01	0.54	---	---
SWCR_HWY_43	06/02/1999 / 10:00	0.3	23.4	6.6	173	[3.0]	---	---	0.05	0.61	---	---
SWCR_HWY_43	06/08/1999 / 09:07	0.3	24.8	6.1	189	[2.3]	---	---	0.05	0.44	---	---
SWCR_HWY_43	06/16/1999 / 09:03	0.3	24.4	6.1	34	[2.7]	---	---	0.12	0.24	---	---
SWCR_HWY_43	06/21/1999 / 10:55	0.3	---	---	---	---	---	---	0.22	0.48	---	---
SWCR_HWY_43	06/29/1999 / 09:23	0.3	24.1	6.8	134	[2.9]	---	---	0.08	0.73	---	---
SWCR_HWY_43	07/08/1999 / 08:47	0.3	27.9	6	181	[2.7]	---	---	0.05	0.77	---	---
SWCR_HWY_43	07/16/1999 / 09:26	0.3	24.6	5.9	185	[3.1]	---	---	0.07	0.31	---	---
SWCR_HWY_43	07/21/1999 / 10:50	0.3	27.4	7	163	[4.8]	---	---	0.03	0.2	---	---
SWCR_HWY_43	07/29/1999 / 13:00	0.3	28.8	6.3	178	[2.1]	---	---	0.25	0.28	---	---
SWCR_HWY_43	08/03/1999 / 09:50	0.3	28	6.5	184	[2.0]	---	---	0.12	0.12	---	---
SWCR_HWY_43	08/12/1999 / 09:30	0.3	26	6.3	277	[2.1]	---	---	0.08	0.11	---	---
SWCR_HWY_43	08/20/1999 / 09:31	0.3	27.8	5.7	240	[1.3]	---	---	0.16	0.14	---	---
SWCR_HWY_43	08/24/1999 / 09:48	0.3	26.1	5.8	307	[1.8]	---	---	0.1	0.08	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_HWY_43	10/26/1998 / 10:09	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/06/1998 / 09:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/12/1998 / 09:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/16/1998 / 09:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/23/1998 / 09:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/03/1998 / 09:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/09/1998 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/16/1998 / 08:47	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/21/1998 / 09:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/31/1998 / 14:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/05/1999 / 09:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/11/1999 / 09:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/20/1999 / 08:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/26/1999 / 09:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/03/1999 / 09:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/08/1999 / 08:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/18/1999 / 09:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/25/1999 / 11:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/02/1999 / 09:12	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/10/1999 / 10:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/18/1999 / 09:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/25/1999 / 09:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/31/1999 / 12:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/09/1999 / 09:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/13/1999 / 11:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/20/1999 / 09:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/28/1999 / 09:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/03/1999 / 09:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/11/1999 / 09:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/20/1999 / 09:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/25/1999 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/02/1999 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/08/1999 / 09:07	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/16/1999 / 09:03	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/21/1999 / 10:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/29/1999 / 09:23	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/08/1999 / 08:47	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/16/1999 / 09:26	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/21/1999 / 10:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/29/1999 / 13:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/03/1999 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/12/1999 / 09:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/20/1999 / 09:31	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/24/1999 / 09:48	0.3	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_HWY_43	09/01/1999 / 09:52	0.3	22.2	6.4	172	[2.6]	---	---	0.47	0.11	---	---
SWCR_HWY_43	09/08/1999 / 08:10	0.3	23.4	6.3	74	[3.5]	---	---	0.34	0.37	---	---
SWCR_HWY_43	09/14/1999 / 10:55	0.3	22.5	6.2	109	[1.8]	---	---	0.4	0.2	---	---
SWCR_HWY_43	09/28/1999 / 10:35	0.3	20.4	6.1	75	[0.1]	---	---	0.09	<0.01	3.8	---
SWCR_HWY_43	10/06/1999 / 10:34	0.3	19.1	5.4	65	[0.6]	---	---	0.22	0.08	1.7	---
SWCR_HWY_43	10/12/1999 / 09:10	0.3	19.3	5.4	107	[0.1]	---	---	0.31	0.02	3.1	---
SWCR_HWY_43	10/20/1999 / 10:38	0.3	19.7	5.2	47	[3.5]	---	---	0.17	0.17	---	---
SWCR_HWY_43	10/28/1999 / 10:00	0.3	13.2	5.9	89	[3.1]	---	---	0.07	0.27	---	---
SWCR_HWY_43	11/03/1999 / 10:40	0.3	15.8	6.2	95	[2.7]	---	---	<0.01	0.34	---	---
SWCR_HWY_43	11/09/1999 / 09:38	0.3	12.8	6.3	85	5.5	---	---	0.66	0.56	---	---
SWCR_HWY_43	11/16/1999 / 09:15	0.3	13.9	5.6	159	[3.5]	---	---	0.2	0.52	---	---
SWCR_HWY_43	11/23/1999 / 12:16	0.3	13.3	6.2	134	[4.8]	---	---	0.09	0.62	---	---
SWCR_HWY_43	11/30/1999 / 09:47	0.3	14.4	6.9	145	[3.5]	---	---	0.21	0.52	---	---
SWCR_HWY_43	12/09/1999 / 10:15	0.3	8.5	6.1	170	7.8	---	---	0.14	0.67	---	---
SWCR_HWY_43	12/14/1999 / 10:06	0.3	10.7	6	132	5.8	---	---	0.32	0.71	---	---
SWCR_HWY_43	12/22/1999 / 10:00	0.3	11.7	6.5	130	6	---	---	0.24	0.64	---	---
SWCR_HWY_43	12/29/1999 / 09:47	0.3	5.9	7.1	101	10.7	---	---	0.47	0.68	---	---
SWCR_HWY_43	01/05/2000 / 10:35	0.3	9	7.2	168	8.7	---	---	0.06	0.75	---	---
SWCR_HWY_43	01/11/2000 / 09:41	0.3	10	7.2	119	7.5	---	---	0.06	0.55	---	---
SWCR_HWY_43	01/20/2000 / 09:55	0.3	5	7	138	11.8	---	---	0.1	0.59	---	---
SWCR_HWY_43	02/03/2000 / 12:05	0.3	4	5.1	85	11.8	---	---	0.22	1	---	---
SWCR_HWY_43	02/10/2000 / 09:45	0.3	7	6.7	74	10.1	---	---	0.03	0.85	---	---
SWCR_HWY_43	02/17/2000 / 09:54	0.3	10	7.2	62	8.5	---	---	0.11	0.82	---	---
SWCR_HWY_43	02/22/2000 / 13:54	0.3	10	6.4	76	8.5	---	---	0.01	0.75	---	---
SWCR_HWY_43	02/24/2000 / 11:55	0.3	---	8.4	137	7.6	---	---	0.06	0.77	---	---
SWCR_HWY_43	03/09/2000 / 14:00	0.3	14	7.1	122	7	---	---	0.04	0.64	---	---
SWCR_HWY_43	03/14/2000 / 09:30	0.3	15	6.6	167	5.8	---	---	0.05	0.72	---	---
SWCR_HWY_43	03/20/2000 / 09:55	0.3	13	6	57	6.4	---	---	0.08	0.51	---	---
SWCR_HWY_43	03/30/2000 / 10:04	0.3	16	6.6	104	6.3	---	---	0.05	0.68	---	---
SWCR_HWY_43	04/04/2000 / 09:30	0.3	17	6.8	113	7.9	---	---	0.11	0.67	---	---
SWCR_HWY_43	04/10/2000 / 09:30	0.3	17	6.8	126	5.4	---	---	0.11	0.73	---	---
SWCR_HWY_43	04/19/2000 / 10:00	0.3	17	6.6	94	6.1	---	---	0.08	0.45	---	---
SWCR_HWY_43	04/25/2000 / 11:30	0.3	---	5.6	93	5.2	---	---	0.02	0.47	---	---
SWCR_HWY_43	05/03/2000 / 09:58	0.3	17	6.8	72	6.8	---	---	0.03	0.54	---	---
SWCR_HWY_43	05/08/2000 / 09:50	0.3	---	---	---	---	---	---	0.14	0.58	---	---
SWCR_HWY_43	05/09/2000 / 09:50	0.3	21	6.8	112	[3.9]	---	---	---	---	---	---
SWCR_HWY_43	05/16/2000 / 09:00	0.3	20	6.6	140	[3.2]	---	---	<0.01	0.45	---	---
SWCR_HWY_43	05/23/2000 / 12:40	0.3	23	6.9	157	[3.7]	---	---	0.13	0.38	---	---
SWCR_HWY_43	05/30/2000 / 10:09	0.3	22	6.8	147	[3.5]	---	---	0.09	0.32	---	---
SWCR_HWY_43	06/06/2000 / 10:15	0.3	21	6.7	156	[2.5]	---	---	0.25	0.3	---	---
SWCR_HWY_43	06/15/2000 / 09:10	0.3	25	6.7	174	[2.8]	---	---	0.25	0.36	---	---
SWCR_HWY_43	06/20/2000 / 09:50	0.3	26	6.5	189	[3.1]	---	---	0.08	0.33	---	---
SWCR_HWY_43	06/26/2000 / 09:50	0.3	27	6.5	181	[3.1]	---	---	0.08	0.26	---	---
SWCR_HWY_43	07/05/2000 / 09:56	0.3	26	6.9	206	[3.3]	---	---	0.37	0.16	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_HWY_43	09/01/1999 / 09:52	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/08/1999 / 08:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/14/1999 / 10:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/28/1999 / 10:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/06/1999 / 10:34	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/12/1999 / 09:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/20/1999 / 10:38	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/28/1999 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/03/1999 / 10:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/09/1999 / 09:38	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/16/1999 / 09:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/23/1999 / 12:16	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/30/1999 / 09:47	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/09/1999 / 10:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/14/1999 / 10:06	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/22/1999 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/29/1999 / 09:47	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/05/2000 / 10:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/11/2000 / 09:41	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/20/2000 / 09:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/03/2000 / 12:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/10/2000 / 09:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/17/2000 / 09:54	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/22/2000 / 13:54	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/24/2000 / 11:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/09/2000 / 14:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/14/2000 / 09:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/20/2000 / 09:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/30/2000 / 10:04	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/04/2000 / 09:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/10/2000 / 09:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/19/2000 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/25/2000 / 11:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/03/2000 / 09:58	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/08/2000 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/09/2000 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/16/2000 / 09:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/23/2000 / 12:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/30/2000 / 10:09	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/06/2000 / 10:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/15/2000 / 09:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/20/2000 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/26/2000 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/05/2000 / 09:56	0.3	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_HWY_43	07/11/2000 / 09:55	0.3	26	6.5	155	[3.0]	---	---	0.02	0.23	---	---
SWCR_HWY_43	07/18/2000 / 10:17	0.3	25	6.4	163	[2.4]	---	---	0.1	0.19	---	---
SWCR_HWY_43	07/26/2000 / 11:26	0.3	22	6.4	46	5	---	---	0.02	0.08	---	---
SWCR_HWY_43	08/02/2000 / 09:54	0.3	25	6	115	[3.6]	---	---	0.25	0.38	---	---
SWCR_HWY_43	08/11/2000 / 10:00	0.3	27	6.5	141	[2.3]	---	---	0.1	0.45	---	---
SWCR_HWY_43	08/17/2000 / 10:08	0.3	25	6.2	153	[2.1]	---	---	0.03	0.39	---	---
SWCR_HWY_43	08/24/2000 / 10:12	0.3	23	6.4	141	[2.4]	---	---	---	---	---	---
SWCR_HWY_43	09/01/2000 / 15:08	0.3	24	6.6	77	6	---	---	0.02	0.14	---	---
SWCR_HWY_43	09/07/2000 / 10:53	0.3	21	6.8	66	[4.0]	---	---	<0.01	0.23	---	---
SWCR_HWY_43	09/15/2000 / 11:35	0.3	24	5.4	110	[2.3]	---	---	0.07	0.36	---	---
SWCR_HWY_43	09/21/2000 / 10:30	0.3	---	---	---	---	---	---	0.04	0.27	---	---
SWCR_HWY_43	09/21/2000 / 10:39	0.3	21	5.9	78	[4.4]	---	---	---	---	---	---
SWCR_HWY_43	09/27/2000 / 10:40	0.3	20	5.4	76	[4.3]	---	---	0.02	0.39	---	---
SWCR_HWY_43	10/11/2000 / 10:35	0.3	15	5.9	107	[3.4]	---	---	0.05	0.41	---	---
SWCR_HWY_43	10/17/2000 / 11:45	0.3	15	5.6	129	[3.8]	---	---	0.09	0.59	---	---
SWCR_HWY_43	10/27/2000 / 10:02	0.3	16	6.2	145	[2.7]	---	---	---	---	---	---
SWCR_HWY_43	10/27/2000 / 10:06	0.3	16	---	---	---	---	---	<0.01	0.37	---	---
SWCR_HWY_43	10/31/2000 / 09:29	0.3	14	6.6	162	[3.2]	---	---	<0.01	0.19	---	---
SWCR_HWY_43	11/07/2000 / 09:43	0.3	12	6.2	138	[3.7]	---	---	0.09	0.19	---	---
SWCR_HWY_43	11/14/2000 / 09:50	0.3	9	6.2	141	5.2	---	---	---	---	---	---
SWCR_HWY_43	11/15/2000 / 10:00	0.3	12	6.2	146	[3.1]	---	---	0.01	0.1	---	---
SWCR_HWY_43	11/20/2000 / 09:50	0.3	---	---	---	---	---	---	0.1	0.15	---	---
SWCR_HWY_43	11/27/2000 / 11:40	0.3	9	6.4	128	6.5	---	---	0.04	0.23	---	---
SWCR_HWY_43	12/08/2000 / 09:35	0.3	4	5.6	100	10.1	---	---	0.03	0.49	---	---
SWCR_HWY_43	12/12/2000 / 10:05	0.3	7	7.2	106	10.5	---	---	0.12	0.83	---	---
SWCR_HWY_43	12/19/2000 / 09:43	0.3	10	5.5	106	7.6	---	---	0.23	0.61	---	---
SWCR_HWY_43	12/29/2000 / 09:32	0.3	3	5.9	93	11.1	---	---	0.05	0.73	---	---
SWCR_HWY_43	01/04/2001 / 09:50	0.3	2.7	5.7	103	11.4	---	---	0.04	0.76	---	---
SWCR_HWY_43	01/12/2001 / 10:19	0.3	3.7	6	115	11.1	---	---	0.04	0.73	---	---
SWCR_HWY_43	01/16/2001 / 10:20	0.3	6.7	5.8	128	10.5	---	---	0.03	0.67	---	---
SWCR_HWY_43	01/26/2001 / 13:05	0.3	7.1	5.8	108	8.7	---	---	<0.5	<0.5	---	---
SWCR_HWY_43	02/01/2001 / 14:27	0.3	7.9	5.7	108	10.2	---	---	<0.5	<0.5	---	---
SWCR_HWY_43	02/07/2001 / 10:07	0.3	8.9	5.5	119	8.5	---	---	0.96	<0.5	---	---
SWCR_HWY_43	02/14/2001 / 10:30	0.3	9.9	5.7	114	8.7	---	---	---	---	---	---
SWCR_HWY_43	02/20/2001 / 10:21	0.3	11.1	5.9	158	7.9	---	---	---	---	---	---
SWCR_HWY_43	05/07/2001 / 12:13	0.3	19	6.4	151	[4.7]	---	---	<0.2	0.31	---	---
SWCR_HWY_43	05/17/2001 / 14:04	0.3	19	6.1	174	[3.2]	---	---	<0.2	0.27	---	---
SWCR_HWY_43	05/24/2001 / 10:10	0.3	22	7.3	187	[2.5]	---	---	<0.2	0.29	---	---
SWCR_HWY_43	05/30/2001 / 12:15	0.3	22	---	214	[4.1]	---	---	<0.2	0.36	---	---
SWCR_HWY_43	06/08/2001 / 10:50	0.3	24.3	6.2	130	[1.9]	---	---	0.2	0.81	---	---
SWCR_HWY_43	06/15/2001 / 11:15	0.3	24.1	6.5	119	[3.6]	---	---	---	---	---	---
SWCR_HWY_43	06/18/2001 / 11:47	0.3	23.9	5.7	99	[3.7]	---	---	0.08	1.1	---	---
SWCR_HWY_43	06/21/2001 / 14:20	0.3	---	---	---	---	---	---	0.1	0.71	---	---
SWCR_HWY_43	06/28/2001 / 10:40	0.3	25.5	5.3	140	[2.4]	---	---	0.28	0.76	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_HWY_43	07/11/2000 / 09:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/18/2000 / 10:17	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/26/2000 / 11:26	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/02/2000 / 09:54	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/11/2000 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/17/2000 / 10:08	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/24/2000 / 10:12	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/01/2000 / 15:08	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/07/2000 / 10:53	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/15/2000 / 11:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/21/2000 / 10:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/21/2000 / 10:39	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/27/2000 / 10:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/11/2000 / 10:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/17/2000 / 11:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/27/2000 / 10:02	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/27/2000 / 10:06	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/31/2000 / 09:29	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/07/2000 / 09:43	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/14/2000 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/15/2000 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/20/2000 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/27/2000 / 11:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/08/2000 / 09:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/12/2000 / 10:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/19/2000 / 09:43	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/29/2000 / 09:32	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/04/2001 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/12/2001 / 10:19	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/16/2001 / 10:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/26/2001 / 13:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/01/2001 / 14:27	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/07/2001 / 10:07	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/14/2001 / 10:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/20/2001 / 10:21	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/07/2001 / 12:13	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/17/2001 / 14:04	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/24/2001 / 10:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/30/2001 / 12:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/08/2001 / 10:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/15/2001 / 11:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/18/2001 / 11:47	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/21/2001 / 14:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/28/2001 / 10:40	0.3	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_HWY_43	07/05/2001 / 09:45	0.3	26.2	6.3	172	[2.2]	---	---	0.3	0.61	---	---
SWCR_HWY_43	07/11/2001 / 10:00	0.3	26.9	5.8	181	[2.6]	---	---	1.4	0.51	---	---
SWCR_HWY_43	07/18/2001 / 08:00	0.3	25.7	5.8	181	[2.2]	---	---	0.29	2	---	---
SWCR_HWY_43	07/25/2001 / 12:30	0.3	27	6.2	171	[3.6]	---	---	1.5	0.16	---	---
SWCR_HWY_43	07/31/2001 / 10:55	0.3	23.6	5.1	151	[2.9]	---	---	0.27	0.16	---	---
SWCR_HWY_43	08/08/2001 / 09:50	0.3	26	6.1	124	[3.5]	---	---	0.06	0.97	---	---
SWCR_HWY_43	08/16/2001 / 11:00	0.3	24.4	6.6	77	[4.0]	---	---	0.4	0.89	---	---
SWCR_HWY_43	08/21/2001 / 09:00	0.3	24.5	6	100	[3.0]	---	---	0.07	0.93	---	---
SWCR_HWY_43	08/30/2001 / 09:45	0.3	24.1	6.2	125	[2.4]	---	---	0.15	0.51	---	---
SWCR_HWY_43	09/05/2001 / 10:00	0.3	24.1	6.4	147	[2.4]	---	---	0.09	0.42	---	---
SWCR_HWY_43	09/12/2001 / 10:10	0.3	23.7	6.7	164	[1.8]	---	---	0.04	0.2	---	---
SWCR_HWY_43	09/18/2001 / 09:50	0.3	19.7	6.5	161	[1.8]	---	---	0.02	0.09	---	---
SWCR_HWY_43	09/24/2001 / 11:05	0.3	22.6	6.3	175	[1.2]	---	---	0.02	0.06	---	---
SWCR_HWY_43	10/02/2001 / 12:00	0.3	17.8	6.9	158	[2.7]	---	---	<0.01	0.06	---	---
SWCR_HWY_43	10/11/2001 / 14:00	0.3	18	6.9	291	[3.5]	---	---	0.2	0.04	---	---
SWCR_HWY_43	10/17/2001 / 09:50	0.3	18	6.3	231	[2.4]	---	---	0.1	0.04	---	---
SWCR_HWY_43	10/24/2001 / 09:00	0.3	18.8	6.8	234	[2.0]	---	---	0.01	0.04	---	---
SWCR_HWY_43	10/30/2001 / 09:45	0.3	14.8	6.2	533	[2.4]	---	---	0.01J	0.05	---	---
SWCR_HWY_43	11/07/2001 / 11:05	0.3	14.2	6.9	1349	[3.1]	---	---	0.03	0.05	---	---
SWCR_HWY_43	11/15/2001 / 11:05	0.3	13.2	6.3	237	[3.9]	---	---	0.06	0.04	---	---
SWCR_HWY_43	11/19/2001 / 10:30	0.3	13.8	6.4	365	[3.7]	---	---	0.12	0.04	---	---
SWCR_HWY_43	11/26/2001 / 09:45	0.3	14	6.3	2450	[2.8]	---	---	0.04	0.05	---	---
SWCR_HWY_43	12/03/2001 / 10:00	0.3	15.4	6.3	4484	[3.7]	---	---	<0.01	<0.01	---	---
SWCR_HWY_43	12/14/2001 / 11:00	0.3	14.8	6.4	2748	[3.2]	---	---	0.22	0.04	---	---
SWCR_HWY_43	12/20/2001 / 10:00	0.3	12.9	6.5	2280	[3.9]	---	---	0.17	0.05	---	---
SWCR_HWY_43	12/27/2001 / 09:45	0.3	9.9	6.6	1777	[4.4]	---	---	0.16	0.13	---	---
SWCR_HWY_43	01/02/2002 / 09:50	0.3	8	6.8	2038	5.2	---	---	0.1	0.11	---	---
SWCR_HWY_43	01/08/2002 / 09:52	0.3	5	6.5	186	8.1	---	---	0.04	0.24	---	---
SWCR_HWY_43	01/16/2002 / 11:20	0.3	7	6.2	138	9	---	---	0.03	1.1	---	---
SWCR_HWY_43	01/24/2002 / 14:45	0.3	9.4	5.9	113	9	---	---	0.04	1.2	---	---
SWCR_HWY_43	01/31/2002 / 10:10	0.3	12.7	5.5	127	6.4	---	---	0.06	1.5	---	---
SWCR_HWY_43	02/05/2002 / 14:30	0.3	12.9	5.6	153	5.7	---	---	0.06	1.1	---	---
SWCR_HWY_43	02/11/2002 / 09:45	0.3	9.8	7.2	103	8.4	---	---	0.04	0.95	---	---
SWCR_HWY_43	02/20/2002 / 09:37	0.3	10.1	6	122	8.7	---	---	0.04	1.1	---	---
SWCR_HWY_43	02/28/2002 / 14:00	0.3	11.6	6.1	145	8	---	---	0.04	0.74	---	---
SWCR_HWY_43	03/06/2002 / 12:45	0.3	9.7	6.4	95	8.2	---	---	0.16	0.68	---	---
SWCR_HWY_43	03/14/2002 / 10:45	0.3	13.8	6.7	148	7.1	---	---	0.12	0.58	---	---
SWCR_HWY_43	03/18/2002 / 12:15	0.3	---	---	---	---	---	---	0.06	0.58	---	---
SWCR_HWY_43	03/18/2002 / 12:45	0.3	16.8	6.5	125	5.7	---	---	---	---	---	---
SWCR_HWY_43	03/27/2002 / 14:10	0.3	14.9	6.7	144	7.6	---	---	0.04	0.51	---	---
SWCR_HWY_43	04/02/2002 / 14:30	0.3	18.4	6.5	84	5.9	---	---	0.05	0.36	---	---
SWCR_HWY_43	04/11/2002 / 12:15	0.3	17.3	6.8	122	6.1	---	---	0.06	0.71	---	---
SWCR_HWY_43	04/17/2002 / 11:25	0.3	21.9	7.1	129	[4.6]	---	---	0.09	0.6	---	---
SWCR_HWY_43	04/22/2002 / 12:30	0.3	24	[3.2]	153	[2.7]	---	---	0.21	0.42	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_HWY_43	07/05/2001 / 09:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/11/2001 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/18/2001 / 08:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/25/2001 / 12:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/31/2001 / 10:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/08/2001 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/16/2001 / 11:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/21/2001 / 09:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/30/2001 / 09:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/05/2001 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/12/2001 / 10:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/18/2001 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/24/2001 / 11:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/02/2001 / 12:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/11/2001 / 14:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/17/2001 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/24/2001 / 09:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/30/2001 / 09:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/07/2001 / 11:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/15/2001 / 11:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/19/2001 / 10:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/26/2001 / 09:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/03/2001 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/14/2001 / 11:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/20/2001 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/27/2001 / 09:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/02/2002 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/08/2002 / 09:52	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/16/2002 / 11:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/24/2002 / 14:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/31/2002 / 10:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/05/2002 / 14:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/11/2002 / 09:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/20/2002 / 09:37	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/28/2002 / 14:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/06/2002 / 12:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/14/2002 / 10:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/18/2002 / 12:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/18/2002 / 12:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/27/2002 / 14:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/02/2002 / 14:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/11/2002 / 12:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/17/2002 / 11:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/22/2002 / 12:30	0.3	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_HWY_43	05/02/2002 / 13:15	0.3	20.4	6.4	166	[2.7]	---	---	0.16	0.43	---	---
SWCR_HWY_43	05/10/2002 / 09:00	0.3	21.5	6.7	184	[3.8]	---	---	0.1	0.48	---	---
SWCR_HWY_43	05/14/2002 / 11:31	0.3	22.9	6.6	175	5.3	---	---	0.1	0.4	---	---
SWCR_HWY_43	05/21/2002 / 11:00	0.3	19.8	6	215	[4.1]	---	---	0.06	0.33	---	---
SWCR_HWY_43	05/29/2002 / 10:15	0.3	21.9	7	212	5.2	---	---	0.03	0.22	---	---
SWCR_HWY_43	06/06/2002 / 14:15	0.3	27.4	6.9	216	[4.5]	---	---	0.04	0.18	---	---
SWCR_HWY_43	06/13/2002 / 10:30	0.3	24.1	6.5	186	[3.9]	---	---	0.2	0.14	---	---
SWCR_HWY_43	06/20/2002 / 12:00	0.3	25.3	6.7	274	[2.8]	---	---	0.11	0.1	---	---
SWCR_HWY_43	06/27/2002 / 10:00	0.3	26.4	6.7	205	[3.2]	---	---	0.13	0.06	---	---
SWCR_HWY_43	07/01/2002 / 10:40	0.3	27.1	6.8	223	[2.4]	---	---	0.06	0.08	---	---
SWCR_HWY_43	07/09/2002 / 10:00	0.3	27.4	7	205	[2.3]	---	---	0.07	0.04	---	---
SWCR_HWY_43	07/18/2002 / 09:50	0.3	27.1	6.6	189	[2.5]	---	---	0.05	0.15	---	---
SWCR_HWY_43	07/23/2002 / 14:15	0.3	28.5	6.9	163	[3.3]	---	---	0.05	0.13	---	---
SWCR_HWY_43	07/29/2002 / 09:50	0.3	27.9	6.7	146	[2.7]	---	---	0.06	0.14	---	---
SWCR_HWY_43	08/06/2002 / 10:40	0.3	28	6.9	2954	[3.2]	---	---	0.07	0.06	---	---
SWCR_HWY_43	08/12/2002 / 10:40	0.3	24.1	6.7	5240	6.3	---	---	<0.02	<0.02	---	---
SWCR_HWY_43	08/21/2002 / 10:30	0.3	27.2	6.5	5000	[2.8]	---	---	0.18	0.04	---	---
SWCR_HWY_43	08/26/2002 / 11:15	0.3	28.2	6.4	7010	[3.8]	---	---	0.06	0.02	---	---
SWCR_HWY_43	09/03/2002 / 10:20	0.3	24.1	6.6	1520	[2.4]	---	---	0.08	0.06	---	---
SWCR_HWY_43	09/09/2002 / 10:00	0.3	25.2	6.5	2850	[2.4]	---	---	0.11	0.15	---	---
SWCR_HWY_43	09/16/2002 / 09:25	0.3	23.6	6.7	1037	[1.3]	---	---	0.07	0.03	---	---
SWCR_HWY_43	09/23/2002 / 13:35	0.3	24.6	6.6	680	[1.6]	---	---	0.05	0.03	---	---
SWCR_HWY_43	10/01/2002 / 10:05	0.3	25.4	6.5	835	[1.3]	---	---	0.02	<0.02	---	---
SWCR_HWY_43	10/07/2002 / 10:05	0.3	23.9	6.6	1500	[0.9]	---	---	0.04	<0.02	---	---
SWCR_HWY_43	10/15/2002 / 08:45	0.3	22	6.7	7040	[4.1]	---	---	0.14	0.08	---	---
SWCR_HWY_43	10/23/2002 / 11:10	0.3	16.5	6.6	993	[3.9]	---	---	0.03	0.06	---	---
SWCR_HWY_43	10/29/2002 / 09:26	0.3	17.6	6.6	1190	[1.8]	---	---	0.03	0.02	---	---
SWCR_HWY_43	11/05/2002 / 09:15	0.3	13.7	6.7	521	[2.8]	---	---	0.02	0.07	---	---
SWCR_HWY_43	11/12/2002 / 10:15	0.3	15	6.9	338	[3.5]	---	---	0.02	0.17	---	---
SWCR_HWY_43	11/21/2002 / 08:30	0.3	11.4	6.4	167	6.7	---	---	0.02	0.49	---	---
SWCR_HWY_43	11/26/2002 / 06:45	0.3	11.1	6.6	211	5.3	---	---	0.02	1.6	---	---
SWCR_HWY_43	12/03/2002 / 09:45	0.3	8.4	7.9	230	6.7	---	---	0.03J	1.5J	---	---
SWCR_HWY_43	12/11/2002 / 13:10	0.3	5	6.9	207	8.6	---	---	<0.02	1.3J	---	---
SWCR_HWY_43	12/16/2002 / 13:25	0.3	8.7	6.4	176	9.1	---	---	<0.02	1.4	---	---
SWCR_HWY_43	12/23/2002 / 13:40	0.3	8.8	7.6	201	10.1	---	---	0.03	1.5	---	---
SWCR_HWY_43	12/31/2002 / 10:10	0.3	5.5	8	192	10.2	---	---	<0.02	1.1	---	---
SWCR_HWY_43	01/07/2003 / 11:10	0.3	8.6	7.4	208	8.3	---	---	0.02	0.93	---	---
SWCR_HWY_43	01/14/2003 / 10:15	0.3	5.7	7.5	215	10.3	---	---	<0.02	1.1	---	---
SWCR_HWY_43	01/21/2003 / 10:30	0.3	4.4	7.1	243	11.6	---	---	0.02	1	---	---
SWCR_HWY_43	01/29/2003 / 10:00	0.3	2.6	7.8	247	12.8	---	---	0.02	0.93	---	---
SWCR_HWY_43	02/06/2003 / 10:15	0.3	5.6	7.7	246	11.8	---	---	0.02	0.77	---	---
SWCR_HWY_43	02/12/2003 / 08:45	0.3	5.7	8	167	11.2	---	---	0.02	0.77	---	---
SWCR_HWY_43	02/19/2003 / 10:05	0.3	5	7.6	105	11.6	---	---	0.05	1	---	---
SWCR_HWY_43	02/24/2003 / 14:45	0.3	12.5	7.6	144	8.6	---	---	0.02	1.4	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_HWY_43	05/02/2002 / 13:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/10/2002 / 09:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/14/2002 / 11:31	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/21/2002 / 11:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/29/2002 / 10:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/06/2002 / 14:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/13/2002 / 10:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/20/2002 / 12:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/27/2002 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/01/2002 / 10:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/09/2002 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/18/2002 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/23/2002 / 14:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/29/2002 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/06/2002 / 10:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/12/2002 / 10:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/21/2002 / 10:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/26/2002 / 11:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/03/2002 / 10:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/09/2002 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/16/2002 / 09:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/23/2002 / 13:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/01/2002 / 10:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/07/2002 / 10:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/15/2002 / 08:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/23/2002 / 11:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/29/2002 / 09:26	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/05/2002 / 09:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/12/2002 / 10:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/21/2002 / 08:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/26/2002 / 06:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/03/2002 / 09:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/11/2002 / 13:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/16/2002 / 13:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/23/2002 / 13:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/31/2002 / 10:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/07/2003 / 11:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/14/2003 / 10:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/21/2003 / 10:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/29/2003 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/06/2003 / 10:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/12/2003 / 08:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/19/2003 / 10:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/24/2003 / 14:45	0.3	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_HWY_43	03/06/2003 / 10:00	0.3	12.1	6.2	139	9.1	---	---	0.02	1.1	---	---
SWCR_HWY_43	03/12/2003 / 10:20	0.3	10.1	7.2	128	8.9	---	---	0.03	1.1	---	---
SWCR_HWY_43	03/18/2003 / 09:05	0.3	14	7	142	7.7	---	---	0.02	0.82	---	---
SWCR_HWY_43	03/25/2003 / 13:30	0.3	16.6	6.7	103	6.5	---	---	0.03	0.85	---	---
SWCR_HWY_43	04/03/2003 / 14:40	0.3	15.6	7.2	155	8.4	---	---	0.05	0.76	---	---
SWCR_HWY_43	04/08/2003 / 12:30	0.3	14.9	7.2	151	[4.4]	---	---	0.04	0.44	---	---
SWCR_HWY_43	04/15/2003 / 09:10	0.3	14	6.3	89	6.7	---	---	0.03	0.77	---	---
SWCR_HWY_43	04/22/2003 / 13:50	0.3	18.1	7.1	120	5.6	---	---	0.06	0.46	---	---
SWCR_HWY_43	04/29/2003 / 10:30	0.3	18	6.4	140	5.2	---	---	0.06	0.5	---	---
SWCR_HWY_43	05/07/2003 / 14:00	0.3	21.4	6.5	141	5	---	---	0.08	0.43	---	---
SWCR_HWY_43	05/12/2003 / 09:26	0.3	24.1	6.5	100	[3.4]	---	---	0.11	0.55	---	---
SWCR_HWY_43	05/20/2003 / 09:25	0.3	17.8	6.8	129	5.4	---	---	0.08	0.49	---	---
SWCR_HWY_43	05/28/2003 / 09:25	0.3	19.7	7.4	104	5.3	---	---	0.06	0.7	---	---
SWCR_HWY_43	06/03/2003 / 11:00	0.3	18.8	6.1	92	5.1	---	---	0.09	0.74	---	---
SWCR_HWY_43	06/10/2003 / 09:35	0.3	23.7	6.3	121	[3.5]	---	---	0.08	0.63	---	---
SWCR_HWY_43	06/17/2003 / 12:15	0.3	25.9	6.5	140	[2.7]	---	---	0.09	0.4	---	---
SWCR_HWY_43	06/23/2003 / 09:15	0.3	---	---	---	---	---	---	0.07	0.39	---	---
SWCR_HWY_43	07/01/2003 / 10:05	0.3	26.3	7.3	165	[2.6]	---	---	0.06	0.38	---	---
SWCR_HWY_43	07/09/2003 / 10:05	0.3	27.9	6.5	97	[3.4]	---	---	0.07	0.43	---	---
SWCR_HWY_43	07/14/2003 / 15:30	0.3	23.6	6.3	106	5.2	---	---	0.04	0.34	---	---
SWCR_HWY_43	07/23/2003 / 09:35	0.3	26.4	6.5	136	[3.4]	---	---	0.08	0.47	---	---
SWCR_HWY_43	07/31/2003 / 09:40	0.3	26.3	6.6	109	5.3	---	---	0.07	0.46	---	---
SWCR_HWY_43	08/07/2003 / 10:45	0.3	25.9	6.7	150	5.1	---	---	0.06	0.36	---	---
SWCR_HWY_43	08/13/2003 / 10:10	0.3	24.5	6.2	87	5.2	---	---	0.04	0.45	---	---
SWCR_HWY_43	08/20/2003 / 09:05	0.3	25.1	6.4	107	[4.6]	---	---	0.04	0.46	---	---
SWCR_HWY_43	08/27/2003 / 09:15	0.3	25	6.7	101	[4.4]	---	---	0.06	0.42	---	---
SWCR_HWY_43	09/03/2003 / 09:50	0.3	27.9	6.8	138	[4.5]	---	---	0.11	0.38	---	---
SWCR_HWY_43	09/11/2003 / 09:35	0.3	22.8	6.6	159	5.1	---	---	0.04	0.16	---	---
SWCR_HWY_43	09/15/2003 / 10:00	0.3	21.6	6.6	158	[3.3]	---	---	0.03	0.11	---	---
SWCR_HWY_43	09/22/2003 / 10:05	0.3	21.9	6.2	75	5.2	---	---	<0.02	0.08	---	---
SWCR_HWY_43	09/30/2003 / 10:00	0.3	19.8	5.6	88	[2.9]	---	---	0.02	0.13	---	---
SWCR_HWY_43	10/07/2003 / 09:00	0.3	17.2	6	114	[4.2]	---	---	0.07	0.31	---	---
SWCR_HWY_43	10/14/2003 / 09:05	0.3	19.2	6.3	122	[3.1]	---	---	0.06	0.4	---	---
SWCR_HWY_43	10/22/2003 / 15:50	0.3	16.9	6.5	154	[4.6]	---	---	0.05	0.63	---	---
SWCR_HWY_43	10/29/2003 / 09:45	0.3	15.4	6.4	127	6.6	---	---	0.02	0.39	---	---
SWCR_HWY_43	11/04/2003 / 09:15	0.3	16.7	5.7	82	5.3	---	---	<0.02	0.42	---	---
SWCR_HWY_43	11/10/2003 / 12:10	0.3	14	6.1	111	[3.6]	---	---	0.03	0.36	---	---
SWCR_HWY_43	11/18/2003 / 10:15	0.3	12.6	6.4	135	6.9	---	---	0.06	0.63	---	---
SWCR_HWY_43	11/25/2003 / 14:05	0.3	13.7	6.6	125	8	---	---	0.04	0.47	---	---
SWCR_HWY_43	12/01/2003 / 10:10	0.3	11.7	6	141	6.7	---	---	0.05	0.6	---	---
SWCR_HWY_43	12/09/2003 / 10:30	0.3	6.5	6.6	119	9.3	---	---	0.05	0.72	---	---
SWCR_HWY_43	12/15/2003 / 10:45	0.3	7.6	5.9	86	9.8	---	---	0.02	0.59	---	---
SWCR_HWY_43	12/22/2003 / 09:55	0.3	4.8	7.3	108	11.4	---	---	0.03	0.9	---	---
SWCR_HWY_43	12/30/2003 / 11:50	0.3	7	6.2	124	11.3	---	---	0.05	0.93	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_HWY_43	03/06/2003 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/12/2003 / 10:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/18/2003 / 09:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/25/2003 / 13:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/03/2003 / 14:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/08/2003 / 12:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/15/2003 / 09:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/22/2003 / 13:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/29/2003 / 10:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/07/2003 / 14:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/12/2003 / 09:26	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/20/2003 / 09:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/28/2003 / 09:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/03/2003 / 11:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/10/2003 / 09:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/17/2003 / 12:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/23/2003 / 09:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/01/2003 / 10:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/09/2003 / 10:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/14/2003 / 15:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/23/2003 / 09:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/31/2003 / 09:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/07/2003 / 10:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/13/2003 / 10:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/20/2003 / 09:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/27/2003 / 09:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/03/2003 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/11/2003 / 09:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/15/2003 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/22/2003 / 10:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/30/2003 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/07/2003 / 09:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/14/2003 / 09:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/22/2003 / 15:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/29/2003 / 09:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/04/2003 / 09:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/10/2003 / 12:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/18/2003 / 10:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/25/2003 / 14:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/01/2003 / 10:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/09/2003 / 10:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/15/2003 / 10:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/22/2003 / 09:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/30/2003 / 11:50	0.3	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_HWY_43	01/05/2004 / 11:00	0.3	10	6.3	136	8.9	---	---	0.06	0.82	---	---
SWCR_HWY_43	01/12/2004 / 12:15	0.3	3	6	156	11.9	---	---	0.07	0.76	---	---
SWCR_HWY_43	01/21/2004 / 14:25	0.3	5	6.2	145	11.6	---	---	0.06	0.85	---	---
SWCR_HWY_43	01/28/2004 / 11:20	0.3	3	6.8	165	12.1	---	---	0.13	0.76	---	---
SWCR_HWY_43	02/02/2004 / 11:00	0.3	3	6.8	150	12.9	---	---	0.04	0.76	---	---
SWCR_HWY_43	02/09/2004 / 11:05	0.3	8	6.5	146	10.7	---	---	0.02	0.65	---	---
SWCR_HWY_43	02/19/2004 / 10:00	0.3	5	6.5	108	12.2	---	---	0.03	0.86	---	---
SWCR_HWY_43	02/25/2004 / 15:40	0.3	9	6.5	117	11.1	---	---	0.03	0.86	---	---
SWCR_HWY_43	03/01/2004 / 10:40	0.3	6	6.7	83	14.4	---	---	0.03	0.79	---	---
SWCR_HWY_43	03/09/2004 / 10:20	0.3	16	6.8	127	6.6	---	---	0.06	0.71	---	---
SWCR_HWY_43	03/18/2004 / 09:00	0.3	11	6.3	144	8.4	---	---	0.04	0.73	---	---
SWCR_HWY_43	03/23/2004 / 10:35	0.3	12	6.4	120	9.6	---	---	0.02	0.66	---	---
SWCR_HWY_43	03/29/2004 / 11:45	0.3	13	6.6	145	8.1	---	---	0.03	0.62	---	---
SWCR_HWY_43	04/06/2004 / 10:40	0.3	13.3	6.5	164	7.9	---	---	0.03	0.57	---	---
SWCR_HWY_43	04/14/2004 / 09:38	0.3	17.1	6.7	124	6.4	---	---	0.16	0.35	---	---
SWCR_HWY_43	04/21/2004 / 14:15	0.3	20.9	6.8	124	5	---	---	0.09	0.41	---	---
SWCR_HWY_43	04/27/2004 / 14:20	0.3	21.4	6.9	152	[3.7]	---	---	0.09	0.42	---	---
SWCR_HWY_43	05/04/2004 / 13:30	0.3	18.2	6.8	105	6.6	---	---	0.06	0.39	---	---
SWCR_HWY_43	05/10/2004 / 10:00	0.3	21.9	6.1	107	[4.6]	---	---	0.1	0.61	---	---
SWCR_HWY_43	05/19/2004 / 11:00	0.3	25.3	6.4	148	[3.4]	---	---	0.1	0.67	---	---
SWCR_HWY_43	05/25/2004 / 14:19	0.3	28.6	6.7	166	[4.1]	---	---	0.07	0.58	---	---
SWCR_HWY_43	06/02/2004 / 11:02	0.3	25.9	6.6	197	[2.3]	---	---	0.1	0.4	---	---
SWCR_HWY_43	06/07/2004 / 10:15	0.3	25.6	6.1	163	[2.6]	---	---	0.1	0.39	---	---
SWCR_HWY_43	06/16/2004 / 13:50	0.3	22.8	5.7	123	[3.7]	---	---	<0.02	0.6	---	---
SWCR_HWY_43	06/22/2004 / 09:25	0.3	25.1	6.9	129	5.1	---	---	0.1	0.83	---	---
SWCR_HWY_43	06/28/2004 / 09:55	0.3	25.2	6.1	133	[3.5]	---	---	0.07	0.55	---	---
SWCR_HWY_43	07/06/2004 / 10:04	0.3	27.4	5.9	120	[4.3]	---	---	0.05	0.54	---	---
SWCR_HWY_43	07/14/2004 / 09:31	0.3	28.2	6.1	143	[2.5]	---	---	0.07	0.39	---	---
SWCR_HWY_43	07/19/2004 / 10:15	0.3	28.1	6.7	153	[2.1]	---	---	0.07	0.35	---	---
SWCR_HWY_43	07/26/2004 / 11:00	0.3	27.9	6.4	165	[3.3]	---	---	0.05	0.34	---	---
SWCR_HWY_43	08/02/2004 / 09:14	0.3	27.4	6.8	169	[3.0]	---	---	0.04	0.25	---	---
SWCR_HWY_43	08/12/2004 / 09:08	0.3	24.5	6.7	153	[3.0]	---	---	0.03	0.17	---	---
SWCR_HWY_43	08/16/2004 / 09:25	0.3	22	6.1	85	[4.6]	---	---	0.02	0.26	---	---
SWCR_HWY_43	08/23/2004 / 09:52	0.3	24.3	6.1	107	[2.7]	---	---	0.04	0.24	---	---
SWCR_HWY_43	08/30/2004 / 10:15	0.3	24.6	6	133	[1.3]	---	---	0.07	0.14	---	---
SWCR_HWY_43	09/07/2004 / 10:23	0.3	24.2	6.2	137	[2.1]	---	---	0.04	0.08	---	---
SWCR_HWY_43	09/15/2004 / 10:20	0.3	27.5	6.7	109	[1.8]	---	---	0.04	0.08	---	---
SWCR_HWY_43	09/20/2004 / 10:32	0.3	22.2	6.5	118	5.4	---	---	<0.02	0.13	---	---
SWCR_HWY_43	09/27/2004 / 10:01	0.3	21.2	6.3	139	[2.3]	---	---	0.02	0.04	---	---
SWCR_HWY_43	10/04/2004 / 09:36	0.3	22.6	6.3	139	[1.4]	---	---	0.03	0.05	---	---
SWCR_HWY_43	10/13/2004 / 09:50	0.3	18.5	6.8	157	[3.0]	---	---	0.04	<0.02	---	---
SWCR_HWY_43	10/20/2004 / 12:34	0.3	18.1	6.6	181	[3.2]	---	---	0.04	0.25	---	---
SWCR_HWY_43	10/26/2004 / 10:19	0.3	15.1	6.1	171	[3.8]	---	---	0.02	0.07	---	---
SWCR_HWY_43	11/03/2004 / 09:52	0.3	17.7	6.4	167	[1.2]	---	---	0.03	0.02	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_HWY_43	01/05/2004 / 11:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/12/2004 / 12:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/21/2004 / 14:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/28/2004 / 11:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/02/2004 / 11:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/09/2004 / 11:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/19/2004 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/25/2004 / 15:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/01/2004 / 10:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/09/2004 / 10:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/18/2004 / 09:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/23/2004 / 10:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/29/2004 / 11:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/06/2004 / 10:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/14/2004 / 09:38	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/21/2004 / 14:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/27/2004 / 14:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/04/2004 / 13:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/10/2004 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/19/2004 / 11:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/25/2004 / 14:19	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/02/2004 / 11:02	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/07/2004 / 10:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/16/2004 / 13:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/22/2004 / 09:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/28/2004 / 09:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/06/2004 / 10:04	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/14/2004 / 09:31	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/19/2004 / 10:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/26/2004 / 11:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/02/2004 / 09:14	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/12/2004 / 09:08	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/16/2004 / 09:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/23/2004 / 09:52	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/30/2004 / 10:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/07/2004 / 10:23	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/15/2004 / 10:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/20/2004 / 10:32	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/27/2004 / 10:01	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/04/2004 / 09:36	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/13/2004 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/20/2004 / 12:34	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/26/2004 / 10:19	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/03/2004 / 09:52	0.3	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_HWY_43	11/08/2004 / 09:20	0.3	16	6.3	179	[2.2]	---	---	0.04	0.04	---	---
SWCR_HWY_43	11/15/2004 / 10:10	0.3	10.1	7.1	188	5.6	---	---	<0.02	0.16	---	---
SWCR_HWY_43	11/22/2004 / 10:30	0.3	11.3	6.5	140	11.4	---	---	<0.02	0.36	---	---
SWCR_HWY_43	11/29/2004 / 10:25	0.3	12.6	6.6	160	5.3	---	---	0.02	0.2	---	---
SWCR_HWY_43	12/09/2004 / 11:20	0.3	10.2	6.6	152	7.6	---	---	0.03	0.54	---	---
SWCR_HWY_43	12/13/2004 / 10:13	0.3	12.6	6.3	164	6	---	---	0.04	0.48	---	---
SWCR_HWY_43	12/21/2004 / 09:59	0.3	6	6.3	147	10.7	---	---	0.03	0.5	---	---
SWCR_HWY_43	12/27/2004 / 10:59	0.3	4.4	6.1	152	11.4	---	---	0.02	0.55	---	---
SWCR_HWY_43	01/06/2005 / 10:10	0.3	11.3	6.1	153	9.3	---	---	<0.02	0.78	---	---
SWCR_HWY_43	01/11/2005 / 09:38	0.3	12.6	6.1	166	6.9	---	---	0.03	0.65	---	---
SWCR_HWY_43	01/20/2005 / 10:49	0.3	3.1	6.2	138	12	---	---	0.03	0.79	---	---
SWCR_HWY_43	01/25/2005 / 10:00	0.3	2.6	6.4	149	12.5	---	---	0.05	0.9	---	---
SWCR_HWY_43	01/31/2005 / 10:07	0.3	3.8	6.3	150	12.2	---	---	0.02	0.76	---	---
SWCR_HWY_43	02/08/2005 / 10:27	0.3	7	6.3	144	11.2	---	---	<0.02	0.68	---	---
SWCR_HWY_43	02/14/2005 / 10:37	0.3	9.4	6.2	162	10.1	---	---	<0.02	0.66	---	---
SWCR_HWY_43	02/21/2005 / 09:43	0.3	10.5	6.8	168	9	---	---	0.02	0.64	---	---
SWCR_HWY_43	03/04/2005 / 14:14	0.3	7.1	6.2	126	11	---	---	0.03J	0.77J	---	---
SWCR_HWY_43	03/08/2005 / 10:13	0.3	9.8	6.3	126	11.1	---	---	0.02	0.82	---	---
SWCR_HWY_43	03/16/2005 / 09:44	0.3	10.1	6.9	154	9.8	---	---	0.02	0.52	---	---
SWCR_HWY_43	03/22/2005 / 10:53	0.3	12.2	6.2	113	9.8	---	---	0.03	1.2	---	---
SWCR_HWY_43	03/31/2005 / 10:16	0.3	16.3	6.1	105	6.3	---	---	0.04	0.61	---	---
SWCR_HWY_43	04/05/2005 / 10:42	0.3	15.3	6	88	6.8	---	---	0.06	0.61	---	---
SWCR_HWY_43	04/12/2005 / 10:10	0.3	16.5	6.2	107	8.4	---	---	0.04	0.34	---	---
SWCR_HWY_43	04/20/2005 / 11:17	0.3	16	6.2	111	7.4	---	---	0.04	0.83	---	---
SWCR_HWY_43	04/26/2005 / 09:50	0.3	18.4	6.1	143	[4.5]	---	---	0.1	0.71	---	---
SWCR_HWY_43	05/04/2005 / 10:05	0.3	17.6	6.1	164	5.5	---	---	0.07	0.62	---	---
SWCR_HWY_43	05/09/2005 / 10:43	0.3	14.7	6.2	97	7.2	---	---	0.1	1.2	---	---
SWCR_HWY_43	05/17/2005 / 10:28	0.3	20.2	6.2	131	[4.2]	---	---	0.1	0.67	---	---
SWCR_HWY_43	05/25/2005 / 09:32	0.3	20.5	6.5	141	5.1	---	---	0.06	0.54	---	---
SWCR_HWY_43	06/01/2005 / 10:37	0.3	20.7	6.3	141	[4.0]	---	---	0.07	0.4	---	---
SWCR_HWY_43	06/07/2005 / 10:22	0.3	22.6	6.4	164	[2.3]	---	---	0.09	0.36	---	---
SWCR_HWY_43	06/13/2005 / 11:26	0.3	25.4	6.1	114	[2.6]	---	---	0.09	1.1	---	---
SWCR_HWY_43	06/20/2005 / 11:00	0.3	25.6	6.4	139	[4.2]	---	---	0.07	0.47	---	---
SWCR_HWY_43	06/27/2005 / 12:23	0.3	28.8	6.6	158	[4.2]	---	---	0.06	0.31	---	---
SWCR_HWY_43	07/05/2005 / 10:11	0.3	25.6	5.8	109	[3.5]	---	---	0.09	0.73	---	---
SWCR_HWY_43	07/12/2005 / 11:20	0.3	28.7	6.4	137	[2.6]	---	---	0.08	0.34	---	---
SWCR_HWY_43	07/18/2005 / 12:30	0.3	27.7	6.5	106	[4.3]	---	---	0.06	0.34	---	---
SWCR_HWY_43	07/25/2005 / 09:58	0.3	23.8	6.2	145	[3.7]	---	---	0.06	0.32	---	---
SWCR_HWY_43	08/01/2005 / 11:09	0.3	26.6	6.6	122	[3.1]	---	---	0.04	0.23	---	---
SWCR_HWY_43	08/09/2005 / 09:32	0.3	26.2	6.1	110	[3.7]	---	---	0.09	0.5	---	---
SWCR_HWY_43	08/15/2005 / 10:15	0.3	27.5	6.6	152	[3.9]	---	---	0.04	0.55	---	---
SWCR_HWY_43	08/23/2005 / 13:20	0.3	28	6.6	145	[3.9]	---	---	0.05	0.4	---	---
SWCR_HWY_43	08/30/2005 / 10:44	0.3	26.6	6.5	146	[3.6]	---	---	0.05	0.1	---	---
SWCR_HWY_43	10/03/2005 / 10:00	0.3	22.2	6.6	354	[1.9]	---	---	0.04	<0.02	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_HWY_43	11/08/2004 / 09:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/15/2004 / 10:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/22/2004 / 10:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/29/2004 / 10:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/09/2004 / 11:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/13/2004 / 10:13	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/21/2004 / 09:59	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/27/2004 / 10:59	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/06/2005 / 10:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/11/2005 / 09:38	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/20/2005 / 10:49	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/25/2005 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/31/2005 / 10:07	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/08/2005 / 10:27	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/14/2005 / 10:37	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/21/2005 / 09:43	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/04/2005 / 14:14	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/08/2005 / 10:13	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/16/2005 / 09:44	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/22/2005 / 10:53	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/31/2005 / 10:16	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/05/2005 / 10:42	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/12/2005 / 10:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/20/2005 / 11:17	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/26/2005 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/04/2005 / 10:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/09/2005 / 10:43	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/17/2005 / 10:28	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/25/2005 / 09:32	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/01/2005 / 10:37	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/07/2005 / 10:22	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/13/2005 / 11:26	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/20/2005 / 11:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/27/2005 / 12:23	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/05/2005 / 10:11	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/12/2005 / 11:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/18/2005 / 12:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/25/2005 / 09:58	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/01/2005 / 11:09	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/09/2005 / 09:32	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/15/2005 / 10:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/23/2005 / 13:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/30/2005 / 10:44	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/03/2005 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_HWY_43	10/11/2005 / 08:44	0.3	22.4	5.9	57	[3.8]	---	---	0.02	0.37	---	---
SWCR_HWY_43	10/19/2005 / 09:15	0.3	17.2	6.2	1594	5.7	---	---	0.08	0.5	---	---
SWCR_HWY_43	10/25/2005 / 09:55	0.3	15.3	6.5	122	5.5	---	---	0.03	0.52	---	---
SWCR_HWY_43	10/31/2005 / 10:14	0.3	12.2	6.4	125	7.5	---	---	0.04	0.82	---	---
SWCR_HWY_43	11/08/2005 / 09:04	0.3	15	6.4	161	6.2	---	---	0.03	0.83	---	---
SWCR_HWY_43	11/16/2005 / 09:45	0.3	16	6.6	194	[4.2]	---	---	0.03	0.72	---	---
SWCR_HWY_43	11/21/2005 / 12:20	0.3	12.5	6.3	158	5.3	---	---	0.02	0.68	---	---
SWCR_HWY_43	11/29/2005 / 10:07	0.3	10.5	6.5	129	8.4	---	---	0.02	0.83	---	---
SWCR_HWY_43	12/05/2005 / 10:13	0.3	12.3	6.7	148	6	---	---	0.03	0.64	---	---
SWCR_HWY_43	12/13/2005 / 10:13	0.3	6	4.7	122	10	---	---	0.02	0.96	---	---
SWCR_HWY_43	12/19/2005 / 09:24	0.3	7.1	6.6	109	9.1	---	---	<0.02	0.83	---	---
SWCR_HWY_43	12/29/2005 / 08:59	0.3	7.9	6.9	94	9.4	---	---	0.02	0.87	---	---
SWCR_HWY_43	01/03/2006 / 09:20	0.3	9.4	8.3	101	10.3	---	---	0.03	0.84	---	---
SWCR_HWY_43	01/11/2006 / 09:05	0.3	8.9	7.1	111	10.7	---	---	0.03	0.91	---	---
SWCR_HWY_43	01/17/2006 / 09:16	0.3	8.9	6.9	117	9.6	---	---	0.09	0.81	---	---
SWCR_HWY_43	01/23/2006 / 09:15	0.3	10.6	6.5	122	9.7	---	---	0.03	0.71	---	---
SWCR_HWY_43	01/30/2006 / 09:30	0.3	8.8	8	112	9.6	---	---	0.02	0.8	---	---
SWCR_HWY_43	02/07/2006 / 10:15	0.3	10.3	6.6	112	9.9	---	---	0.04	0.82	---	---
SWCR_HWY_43	02/14/2006 / 12:20	0.3	7.1	6.5	158	13.6	---	---	0.03	0.83	---	---
SWCR_HWY_43	02/21/2006 / 10:12	0.3	9.6	7	147	10.3	---	---	0.04	0.8	---	---
SWCR_HWY_43	02/28/2006 / 09:45	0.3	9	7.1	135	9.4	---	---	0.02	0.54	---	---
SWCR_HWY_43	03/07/2006 / 09:15	0.3	11.7	6.8	128	8.1	---	---	0.02	0.62	---	---
SWCR_HWY_43	03/13/2006 / 09:21	0.3	15.7	---	147	6.1	---	---	0.02	0.64	---	---
SWCR_HWY_43	03/21/2006 / 16:45	0.3	13.2	7.6	194	7.5	---	---	0.02	0.53	---	---
SWCR_HWY_43	03/30/2006 / 13:40	0.3	14.2	7.9	125	9.8	---	---	<0.02	0.39	---	---
SWCR_HWY_43	04/04/2006 / 09:53	0.3	17.2	6.6	147	6.4	---	---	0.02	0.36	---	---
SWCR_HWY_43	04/10/2006 / 09:50	0.3	16.4	6.4	148	6.4	---	---	0.03	0.27	---	---
SWCR_HWY_43	04/19/2006 / 09:50	0.3	18.8	6.7	167	---	---	---	0.04	0.23	---	---
SWCR_HWY_43	04/25/2006 / 09:09	0.3	21	6.4	157	[2.9]	---	---	0.07	0.28	---	---
SWCR_HWY_43	05/02/2006 / 09:30	0.3	13.9	6.7	152	---	---	---	0.06	0.41	---	---
SWCR_HWY_43	05/09/2006 / 10:35	0.3	17.8	6.5	151	[4.7]	---	---	0.06	0.53	---	---
SWCR_HWY_43	05/17/2006 / 09:16	0.3	19.2	6.3	120	5.5	---	---	0.07	0.63	---	---
SWCR_HWY_43	05/23/2006 / 09:53	0.3	19.8	7	108	5.1	---	---	0.06	0.81	---	---
SWCR_HWY_43	05/30/2006 / 09:10	0.3	22.9	6.5	150	---	---	---	0.06	0.68	---	---
SWCR_HWY_43	06/06/2006 / 09:48	0.3	24	6.9	150	[3.2]	---	---	0.07	0.52	---	---
SWCR_HWY_43	06/15/2006 / 11:05	0.3	23	6.6	140	[3.9]	---	---	0.05	0.65	---	---
SWCR_HWY_43	06/19/2006 / 10:55	0.3	24.5	6.8	119	[4.8]	---	---	0.04	0.81	---	---
SWCR_HWY_43	06/26/2006 / 11:05	0.3	25.7	6.7	126	[4.6]	---	---	0.06	0.49	---	---
SWCR_HWY_43	07/05/2006 / 09:12	0.3	25.5	6.6	108	[3.4]	---	---	0.05	0.42	---	---
SWCR_HWY_43	07/12/2006 / 09:35	0.3	25.6	6.9	133	[4.2]	---	---	0.04	0.59	---	---
SWCR_HWY_43	07/17/2006 / 10:48	0.3	26.9	7	140	[3.0]	---	---	0.06	0.52	---	---
SWCR_HWY_43	07/24/2006 / 10:06	0.3	27.8	6.6	156	[3.1]	---	---	0.07	0.24	---	---
SWCR_HWY_43	08/04/2006 / 09:30	0.3	---	6.6	149	[3.5]	---	---	0.04	0.07	---	---
SWCR_HWY_43	08/07/2006 / 10:17	0.3	27.8	6.4	208	[0.7]	---	---	0.09	0.08	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_HWY_43	10/11/2005 / 08:44	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/19/2005 / 09:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/25/2005 / 09:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/31/2005 / 10:14	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/08/2005 / 09:04	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/16/2005 / 09:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/21/2005 / 12:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/29/2005 / 10:07	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/05/2005 / 10:13	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/13/2005 / 10:13	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/19/2005 / 09:24	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/29/2005 / 08:59	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/03/2006 / 09:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/11/2006 / 09:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/17/2006 / 09:16	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/23/2006 / 09:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/30/2006 / 09:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/07/2006 / 10:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/14/2006 / 12:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/21/2006 / 10:12	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/28/2006 / 09:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/07/2006 / 09:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/13/2006 / 09:21	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/21/2006 / 16:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/30/2006 / 13:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/04/2006 / 09:53	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/10/2006 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/19/2006 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/25/2006 / 09:09	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/02/2006 / 09:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/09/2006 / 10:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/17/2006 / 09:16	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/23/2006 / 09:53	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/30/2006 / 09:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/06/2006 / 09:48	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/15/2006 / 11:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/19/2006 / 10:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/26/2006 / 11:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/05/2006 / 09:12	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/12/2006 / 09:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/17/2006 / 10:48	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/24/2006 / 10:06	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/04/2006 / 09:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/07/2006 / 10:17	0.3	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_HWY_43	08/14/2006 / 09:50	0.3	24.8	6.4	159	---	---	---	0.05	0.03	---	---
SWCR_HWY_43	08/21/2006 / 10:40	0.3	26.8	6.5	168	[2.1]	---	---	0.07	0.05	---	---
SWCR_HWY_43	08/29/2006 / 09:35	0.3	25.5	6.2	121	[2.5]	---	---	0.06	0.21	---	---
SWCR_HWY_43	09/06/2006 / 09:48	0.3	23.3	6.4	55	[3.0]	---	---	<0.02	0.08	---	---
SWCR_HWY_43	09/11/2006 / 10:28	0.3	22.6	5.9	87	[2.2]	---	---	0.04	0.18	---	---
SWCR_HWY_43	09/20/2006 / 09:51	0.3	22	6.5	127	[3.0]	---	---	0.08	0.28	---	---
SWCR_HWY_43	09/26/2006 / 10:24	0.3	21.6	6.4	133	[2.1]	---	---	0.09	0.3	---	---
SWCR_HWY_43	10/04/2006 / 10:24	0.3	20.4	6.7	155	[3.0]	---	---	0.06	0.37	---	---
SWCR_HWY_43	10/10/2006 / 10:12	0.3	19.9	6.2	126	---	---	---	<0.02	0.12	---	---
SWCR_HWY_43	10/17/2006 / 09:37	0.3	15.9	6.5	150	[2.7]	---	---	0.02	0.08	---	---
SWCR_HWY_43	10/24/2006 / 09:58	0.3	16.5	6.2	163	[3.5]	---	---	0.02	0.85	---	---
SWCR_HWY_43	10/31/2006 / 09:30	0.3	14.8	6.8	103	[4.7]	---	---	0.04	0.71	---	---
SWCR_HWY_43	11/06/2006 / 09:10	0.3	12.2	6.1	136	[4.1]	---	---	<0.02	0.68	---	---
SWCR_HWY_43	11/16/2006 / 10:10	0.3	15.4	6.1	108	[4.8]	---	---	<0.02	0.63	---	---
SWCR_HWY_43	11/21/2006 / 09:01	0.3	11.3	6.4	113	5.9	---	---	<0.02	0.63	---	---
SWCR_HWY_43	11/28/2006 / 09:30	0.3	12.2	5.9	68	5	---	---	<0.02	0.3	---	---
SWCR_HWY_43	12/06/2006 / 10:16	0.3	9.8	6.5	104	[4.9]	---	---	0.05	0.41	---	---
SWCR_HWY_43	12/12/2006 / 10:54	0.3	5.6	6.1	127	8.8	---	---	0.1	0.8	---	---
SWCR_HWY_43	12/18/2006 / 09:47	0.3	10.9	6.8	164	6.9	---	---	0.09	0.81	---	---
SWCR_HWY_43	12/27/2006 / 09:35	0.3	13.1	6.3	73	---	---	---	0.06	0.48	---	---
SWCR_HWY_43	01/04/2007 / 09:47	0.3	11.2	6.8	90	6.6	---	---	0.04	0.63	---	---
SWCR_HWY_43	01/08/2007 / 09:20	0.3	16.3	6.8	90	5.4	---	---	0.03	0.39	---	---
SWCR_HWY_43	01/17/2007 / 09:15	0.3	12.6	7	119	7.1	---	---	0.05	0.73	---	---
SWCR_HWY_43	01/23/2007 / 09:15	0.3	6.4	6.8	106	10.9	---	---	0.03	0.55	---	---
SWCR_HWY_43	01/31/2007 / 09:40	0.3	7.2	6.7	99	9.3	---	---	0.02	0.82	---	---
SWCR_HWY_43	02/05/2007 / 09:30	0.3	7.4	6.3	110	6	---	---	0.04	0.79	---	---
SWCR_HWY_43	02/12/2007 / 09:55	0.3	5.3	6.8	---	12	---	---	0.05	0.92	---	---
SWCR_HWY_43	02/20/2007 / 12:04	0.3	5.7	7.2	124	11.3	---	---	<0.02	0.68	---	---
SWCR_HWY_43	02/26/2007 / 10:05	0.3	10.8	7	138	8.5	---	---	0.02	0.68	---	---
SWCR_HWY_43	03/06/2007 / 09:20	0.3	12.2	6.2	119	8.1	---	---	0.05	0.41	---	---
SWCR_HWY_43	03/12/2007 / 10:00	0.3	11.4	6.8	130	8.7	---	---	<0.02	0.36	---	---
SWCR_HWY_43	03/19/2007 / 09:55	0.3	11.8	6.5	131	7.3	---	---	0.02	0.31	---	---
SWCR_HWY_43	03/26/2007 / 10:30	0.3	15.8	6.2	125	6.3	---	---	0.03	0.21	---	---
SWCR_HWY_43	04/02/2007 / 10:25	0.3	18	6.2	153	[4.8]	---	---	0.06	0.26	---	---
SWCR_HWY_43	04/12/2007 / 12:35	0.3	16.7	6.6	173	5.6	---	---	0.05	0.28	---	---
SWCR_HWY_43	04/16/2007 / 11:35	0.3	15.2	6.3	163	6.5	---	---	0.04	0.25	---	---
SWCR_HWY_43	04/25/2007 / 09:45	0.3	18.1	5.9	115	5.4	---	---	0.06	0.49	---	---
SWCR_HWY_43	05/03/2007 / 09:10	0.3	22.3	6.1	142	[3.1]	---	---	0.1	0.48	---	---
SWCR_HWY_43	05/07/2007 / 11:20	0.3	19.1	6.3	167	5.8	---	---	0.12	0.46	---	---
SWCR_HWY_43	05/17/2007 / 12:12	0.3	19.7	6.5	107	[4.5]	---	---	0.12	0.66	---	---
SWCR_HWY_43	05/21/2007 / 10:10	0.3	20.3	6.5	124	[3.9]	---	---	0.07	0.45	---	---
SWCR_HWY_43	05/31/2007 / 10:30	0.3	23.9	6.5	142	[3.8]	---	---	0.07	0.24	---	---
SWCR_HWY_43	06/04/2007 / 10:25	0.3	23.8	6.6	148	[3.6]	---	---	0.09	0.14	---	---
SWCR_HWY_43	06/11/2007 / 11:30	0.3	24.6	6.6	175	[3.1]	---	---	0.04	0.13	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_HWY_43	08/14/2006 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/21/2006 / 10:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/29/2006 / 09:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/06/2006 / 09:48	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/11/2006 / 10:28	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/20/2006 / 09:51	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/26/2006 / 10:24	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/04/2006 / 10:24	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/10/2006 / 10:12	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/17/2006 / 09:37	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/24/2006 / 09:58	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/31/2006 / 09:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/06/2006 / 09:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/16/2006 / 10:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/21/2006 / 09:01	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/28/2006 / 09:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/06/2006 / 10:16	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/12/2006 / 10:54	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/18/2006 / 09:47	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/27/2006 / 09:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/04/2007 / 09:47	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/08/2007 / 09:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/17/2007 / 09:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/23/2007 / 09:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	01/31/2007 / 09:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/05/2007 / 09:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/12/2007 / 09:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/20/2007 / 12:04	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	02/26/2007 / 10:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/06/2007 / 09:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/12/2007 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/19/2007 / 09:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	03/26/2007 / 10:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/02/2007 / 10:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/12/2007 / 12:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/16/2007 / 11:35	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	04/25/2007 / 09:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/03/2007 / 09:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/07/2007 / 11:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/17/2007 / 12:12	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/21/2007 / 10:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	05/31/2007 / 10:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/04/2007 / 10:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/11/2007 / 11:30	0.3	---	---	---	---	---	---	---	---	---	---

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Dissolved Oxygen Field (mg/L)	Turbidity Field (NTU)	Hardness (as CaCO3) Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate + Nitrite (as N) Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Iron Total (mg/L)
Surface Water Standard			---	4.3 - 8.5	---	<5	25	---	---	---	---	---
SWCR_HWY_43	06/18/2007 / 10:10	0.3	23.2	6.8	167	[2.7]	---	---	0.05	0.09	---	---
SWCR_HWY_43	06/25/2007 / 10:20	0.3	25.2	6.8	158	[2.6]	---	---	0.04	0.08	---	---
SWCR_HWY_43	07/02/2007 / 09:50	0.3	25	6.7	171	[2.8]	---	---	0.04	0.15	---	---
SWCR_HWY_43	07/09/2007 / 10:03	0.3	25.9	6.2	110	[2.6]	---	---	0.07	0.39	---	---
SWCR_HWY_43	07/16/2007 / 10:23	0.3	27.4	6.6	148	[2.8]	---	---	0.05	0.35	---	---
SWCR_HWY_43	07/24/2007 / 10:25	0.3	25.3	6.1	108	[3.9]	---	---	0.05	0.16	---	---
SWCR_HWY_43	07/31/2007 / 09:45	0.3	26	6.4	131	[1.9]	---	---	0.06	0.1	---	---
SWCR_HWY_43	08/06/2007 / 10:05	0.3	26.9	6.4	129	[1.7]	---	---	0.06	0.03	---	---
SWCR_HWY_43	08/13/2007 / 09:30	0.3	27.1	6.5	285	[1.6]	---	---	0.1	0.04	---	---
SWCR_HWY_43	08/20/2007 / 11:42	0.3	28.3	6.6	198	[2.6]	---	---	0.02	<0.02	---	---
SWCR_HWY_43	08/27/2007 / 10:15	0.3	27.9	6.8	205	[1.9]	---	---	0.07	<0.02	---	---
SWCR_HWY_43	09/04/2007 / 11:00	0.3	25.4	6.5	2398	[4.2]	---	---	<0.02	<0.02	---	---
SWCR_HWY_43	09/10/2007 / 10:15	0.3	25.1	6.5	2268	[2.2]	---	---	0.05	<0.02	---	---
SWCR_HWY_43	09/17/2007 / 10:20	0.3	22.8	6.5	2413	[3.0]	---	---	0.02	<0.02	---	---
SWCR_HWY_43	09/24/2007 / 10:55	0.3	23.7	6.6	1147	[2.8]	---	---	<0.02	<0.02	---	---
SWCR_HWY_43	10/01/2007 / 09:40	0.3	22.8	6.6	273	[2.6]	---	---	0.07	0.14	---	---
SWCR_HWY_43	10/08/2007 / 09:15	0.3	23.6	6.6	919	[2.2]	---	---	0.03	<0.02	---	---
SWCR_HWY_43	10/15/2007 / 10:50	0.3	20.9	6.7	3576	[1.8]	---	---	0.06	<0.02	---	---
SWCR_HWY_43	10/23/2007 / 09:55	0.3	21.8	6.7	4807	[2.8]	---	---	0.05	<0.02	---	---
SWCR_HWY_43	10/29/2007 / 10:30	0.3	20.2	7.1	5008	[1.8]	---	---	0.09	<0.02	---	---
SWCR_HWY_43	11/05/2007 / 10:07	0.3	14.2	6.5	870	[3.8]	---	---	0.02	0.03	---	---
SWCR_HWY_43	11/13/2007 / 10:45	0.3	11.7	6.6	1282	[3.6]	---	---	<0.02	0.07	---	---
SWCR_HWY_43	11/19/2007 / 09:50	0.3	12.5	7.1	4210	[4.6]	---	---	---	---	---	---
SWCR_HWY_43	11/26/2007 / 10:10	0.3	12.8	6.6	5982	[3.3]	---	---	0.06	0.1	---	---
SWCR_HWY_43	12/03/2007 / 10:25	0.3	12.4	6.5	4891	[3.8]	---	---	0.05	0.12	---	---
SWCR_HWY_43	12/11/2007 / 10:00	0.3	11.6	7	3746	5.7	---	---	0.02	0.16	---	---
SWCR_HWY_43	12/17/2007 / 10:05	0.3	11.5	6.6	4094	5.8	---	---	<0.02	0.14	---	---
SWCR_HWY_43	12/27/2007 / 09:00	0.3	9.4	6.7	3685	5.4	---	---	0.06	0.2	---	---
SWCR_HWY_43	12/31/2007 / 09:45	0.3	10.6	6.5	613	6.2	---	---	0.03	0.45	---	---

Sample Locaitons

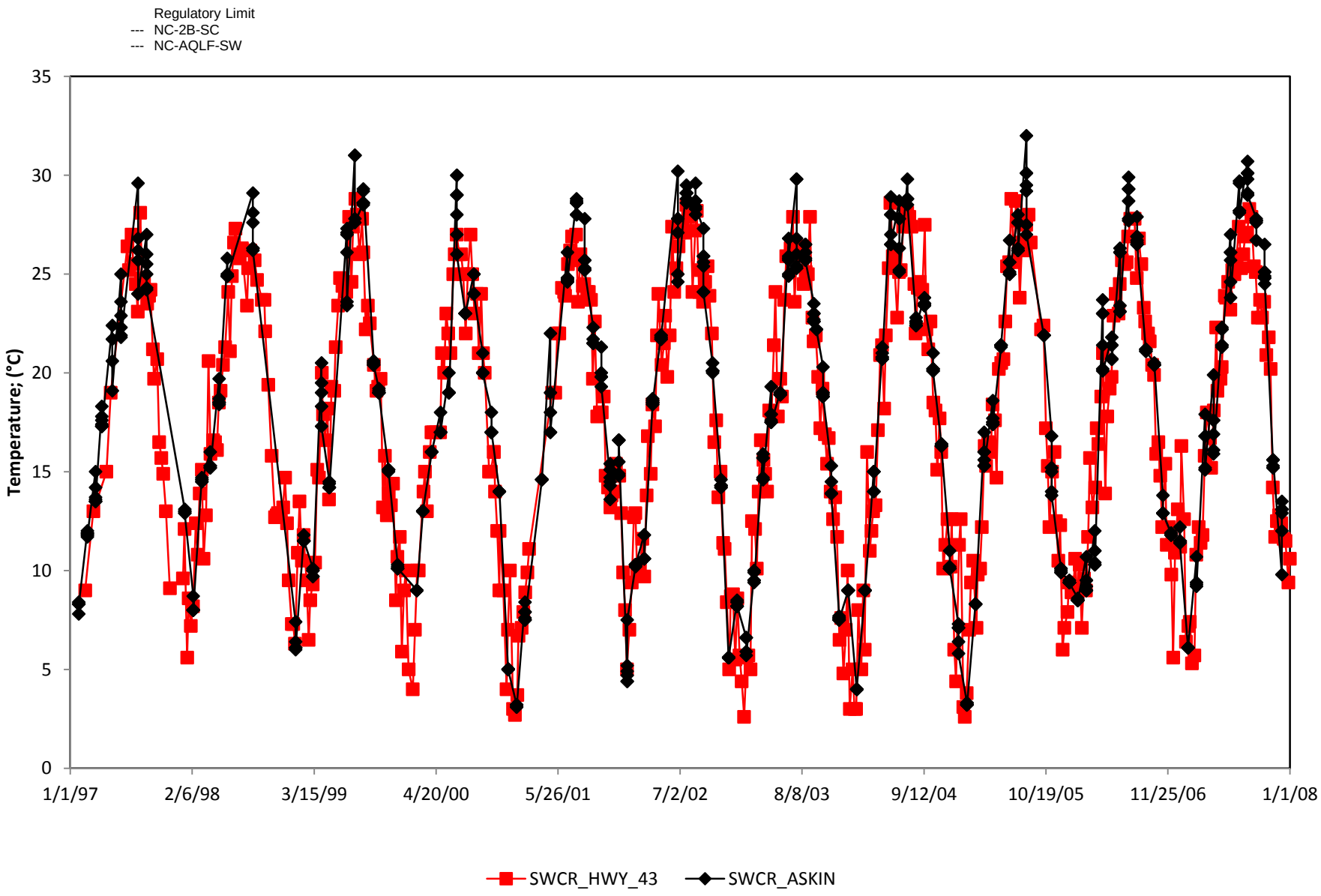
Sample Site ID	Sample Site Description	NC DWQ Station No.	USGS Station No.	Latitude	Longitude
SWCR_HWY_43	Swift Creek at Highway 43 near Streets Ferry	J8230000	209205053	35°13'51" (35.23104°)	77°06'50" (-77.11388°)
SWCR_ASKIN	Swift Creek at Mouth near Askin	J8210000	2092084	35°11'34" (35.19278°)	77°05'23" (-77.08984°)

Data accessed from STORET, October 2011

Surface Water Standard:
15A NCAC 2B, Saltwater aquatic life
15A NCAC 2B, Swamp water (Sw)
Value in brackets [] exceeds standard

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.

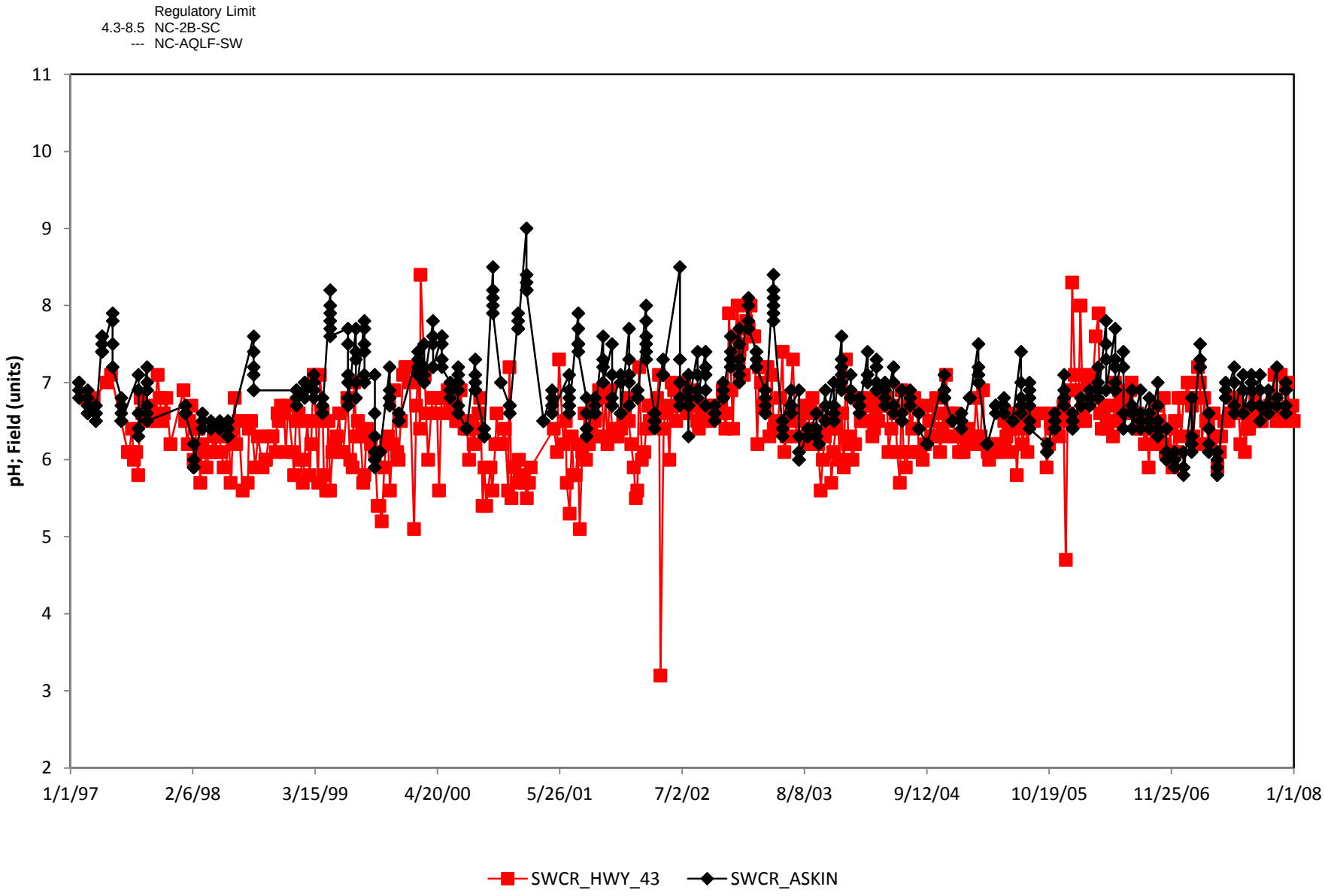


Swift Creek TS plots with ND.xls 3/14/2012

Figure B-1: Temperature; (°C)

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.



Swift Creek TS plots with ND.xls 3/14/2012

Figure B-2: pH; Field (units)

Swift Creek Data from Highway 43 and Askin Sample Sites

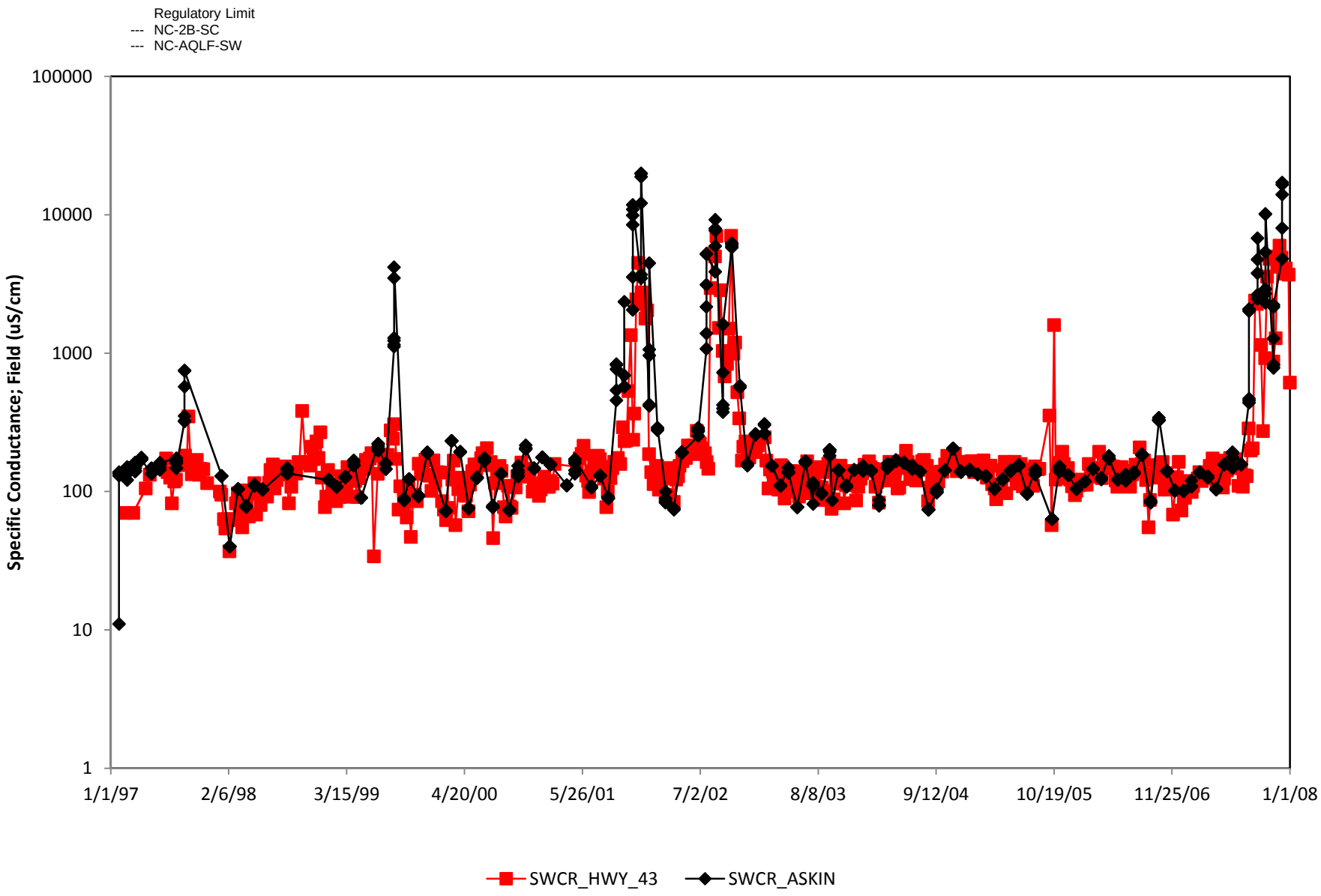
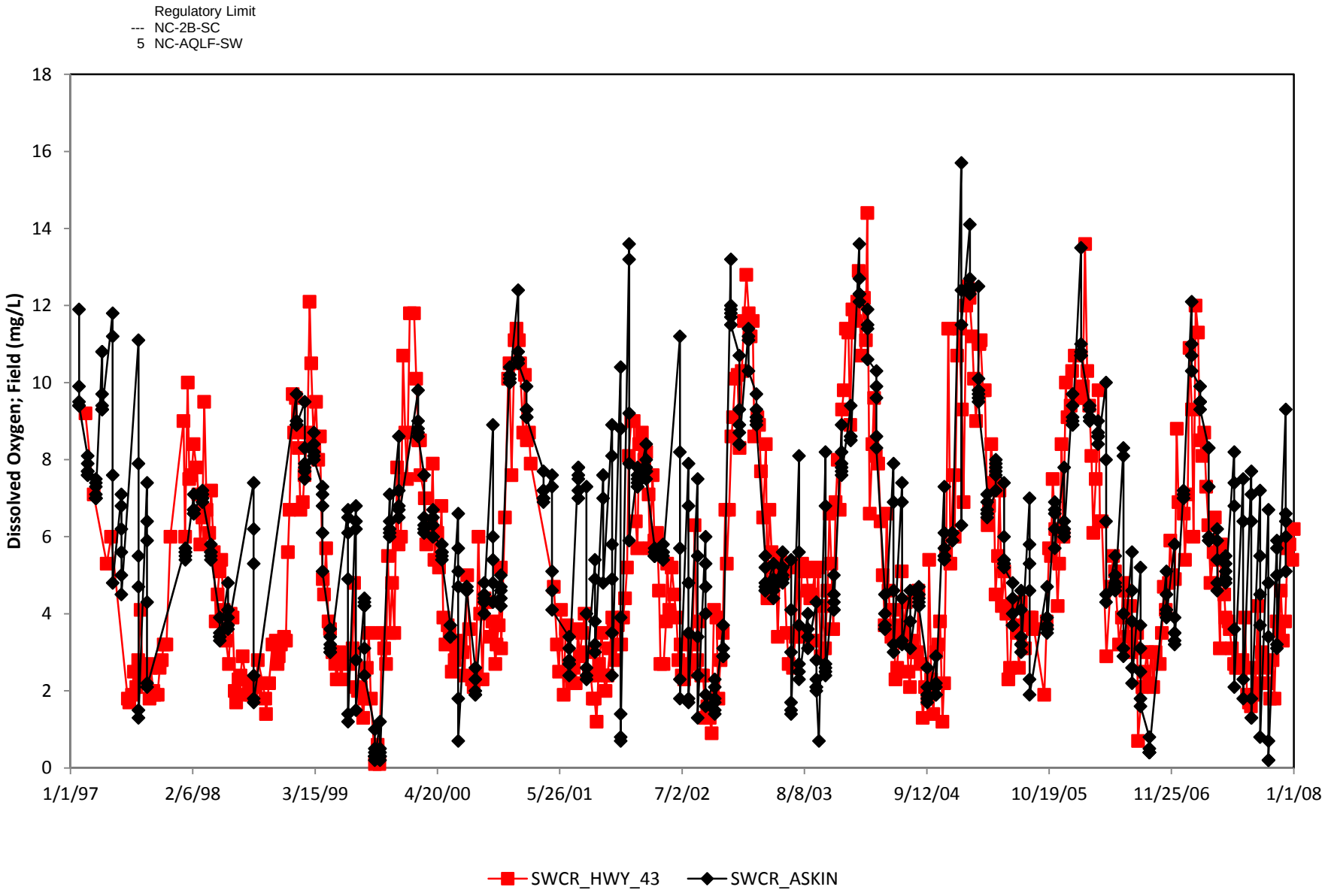


Figure B-3: Specific Conductance; Field (uS/cm)

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.

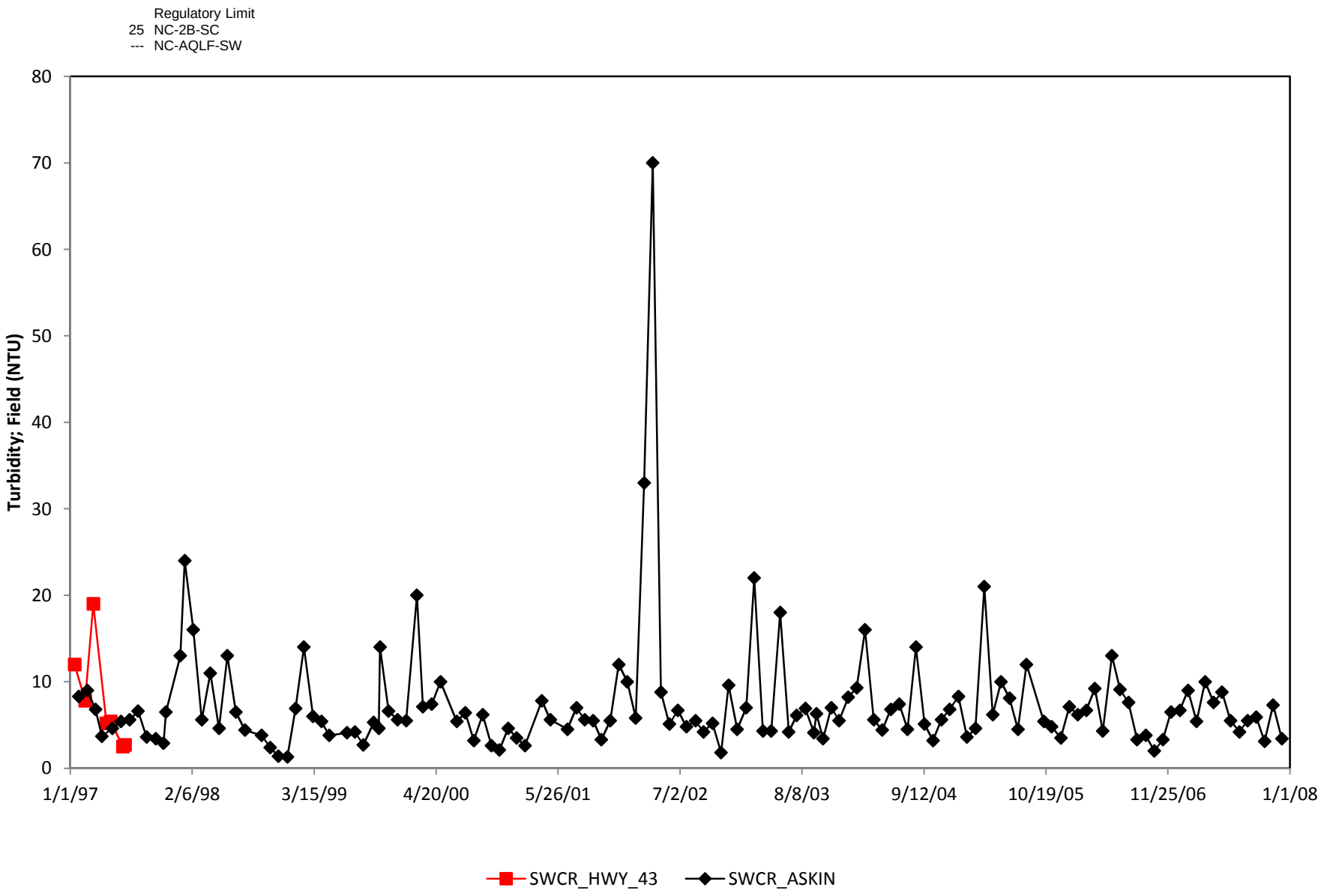


Swift Creek TS plots with ND.xls 3/14/2012

Figure B-4: Dissolved Oxygen; Field (mg/L)

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.

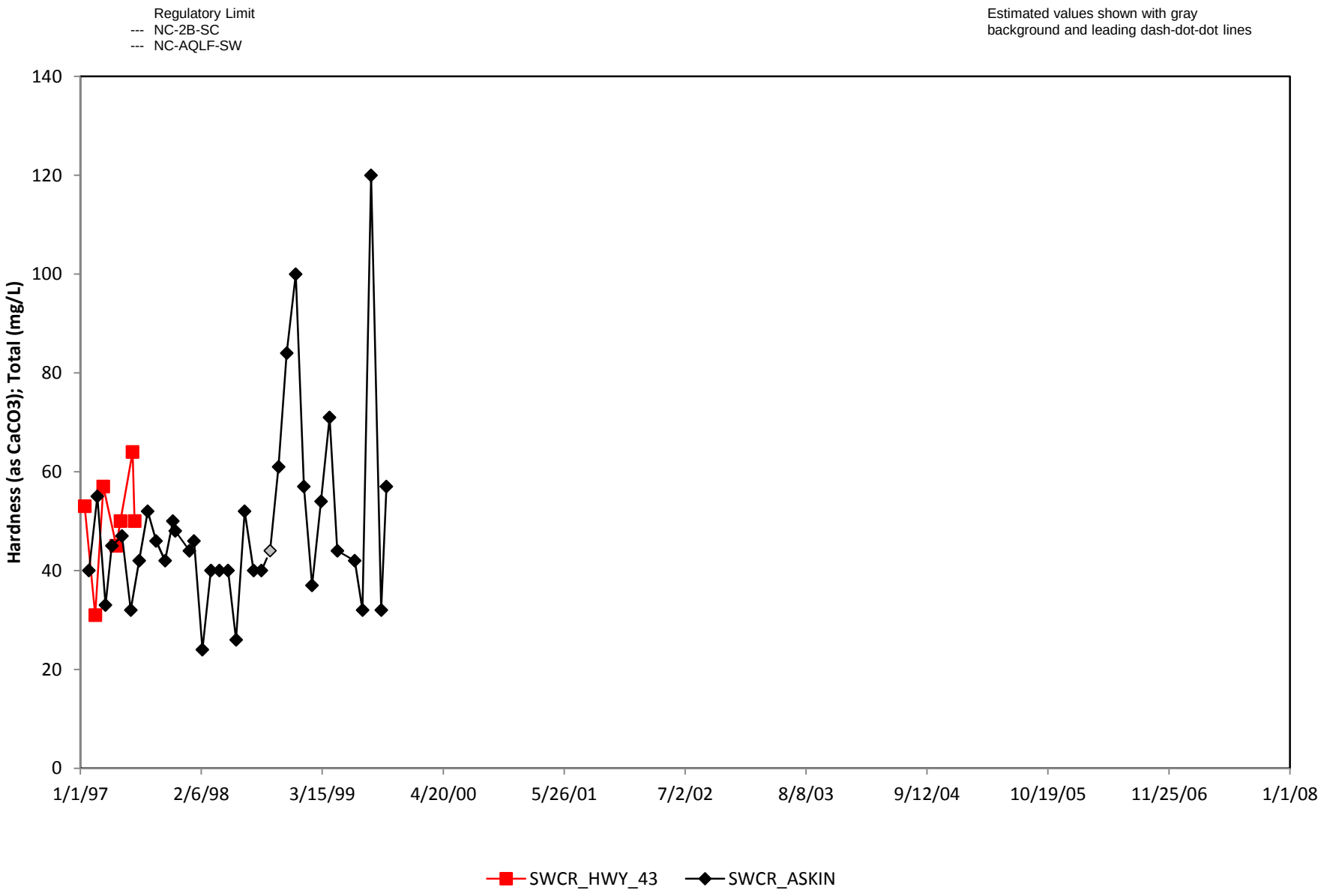


Swift Creek TS plots with ND.xls 3/14/2012

Figure B-5: Turbidity; Field (NTU)

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.

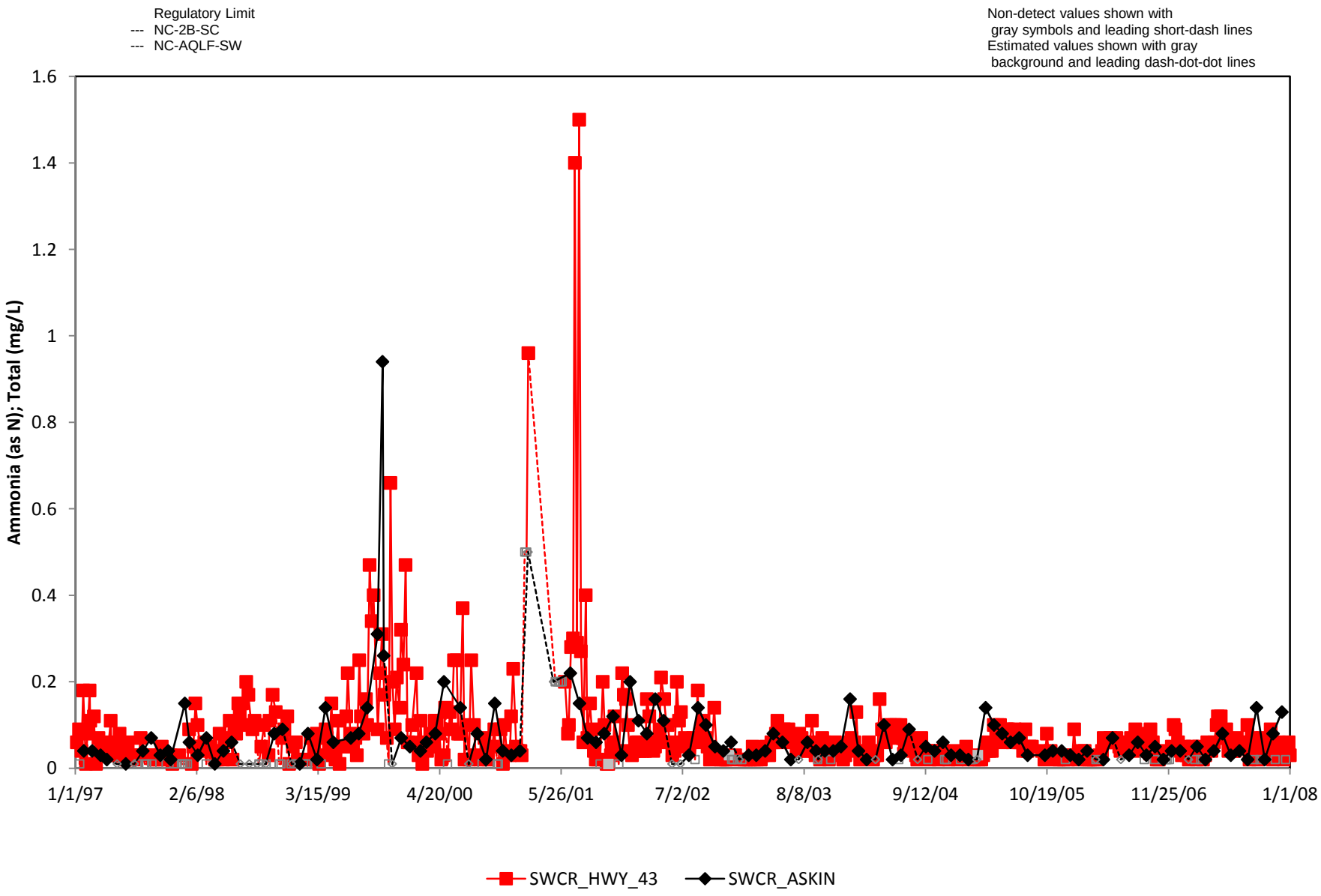


Swift Creek TS plots with ND.xls 3/14/2012

Figure B-6: Hardness (as CaCO3); Total (mg/L)

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.

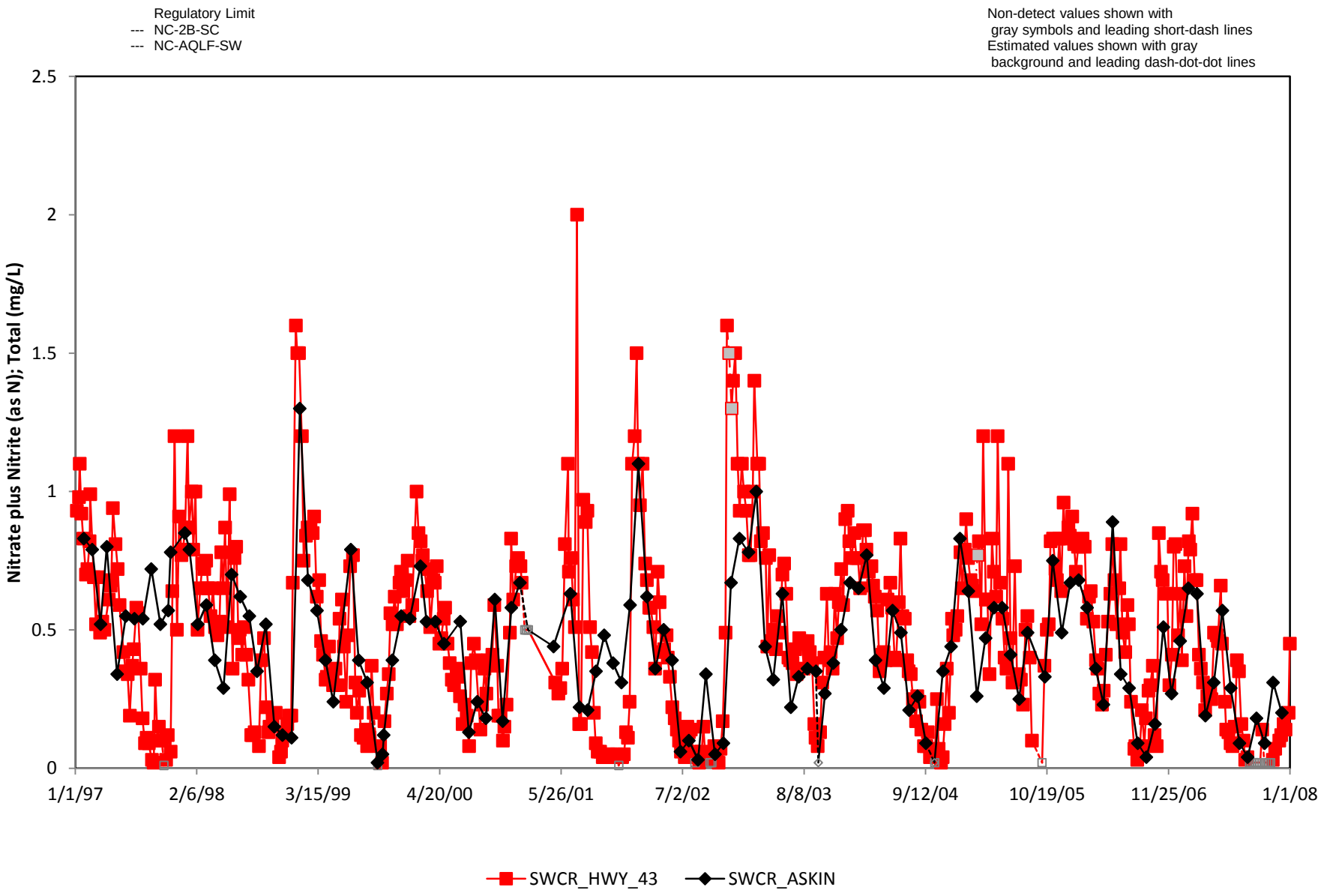


Swift Creek TS plots with ND.xls 3/14/2012

Figure B-7: Ammonia (as N); Total (mg/L)

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.

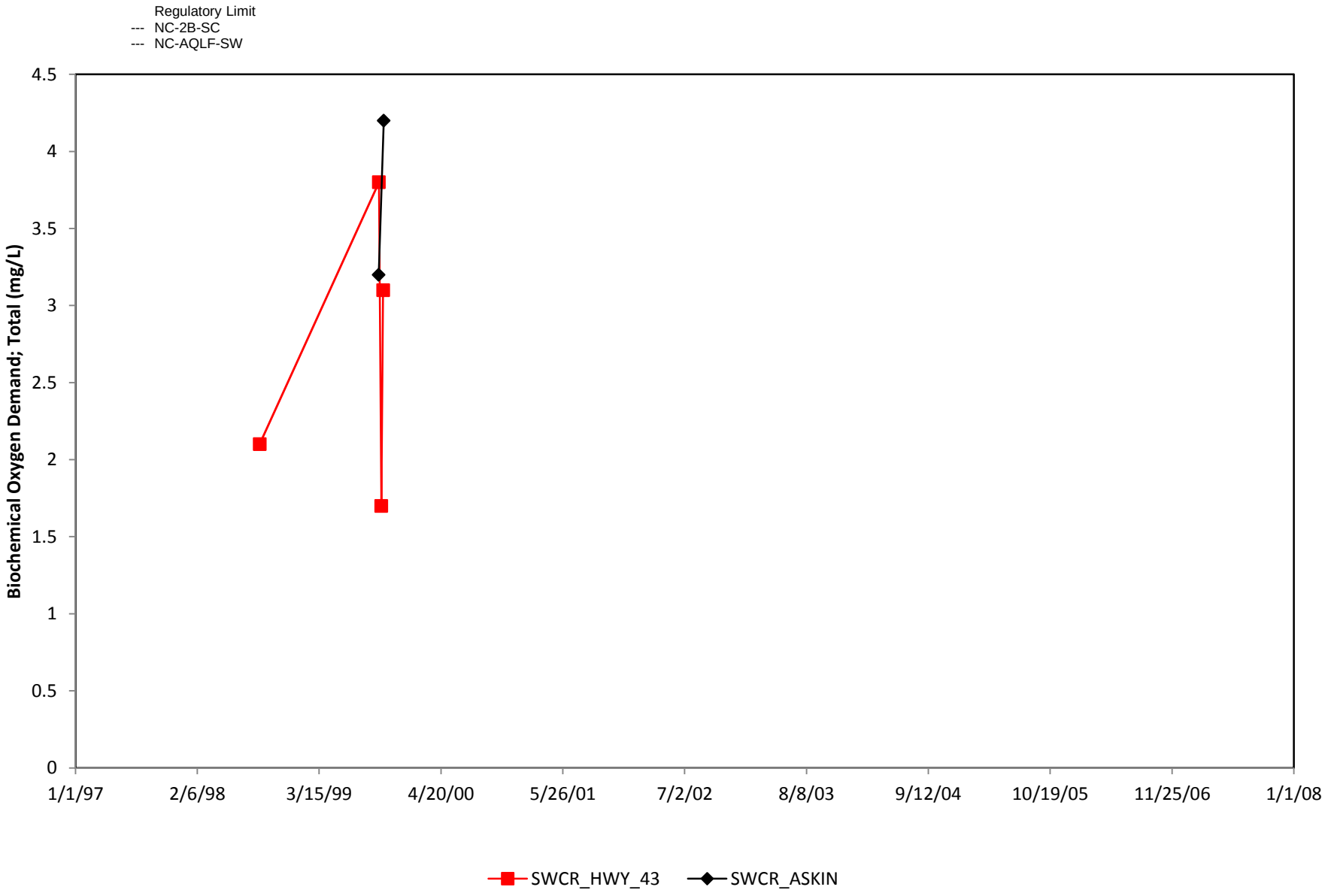


Swift Creek TS plots with ND.xls 3/14/2012

Figure B-8: Nitrate plus Nitrite (as N); Total (mg/L)

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.

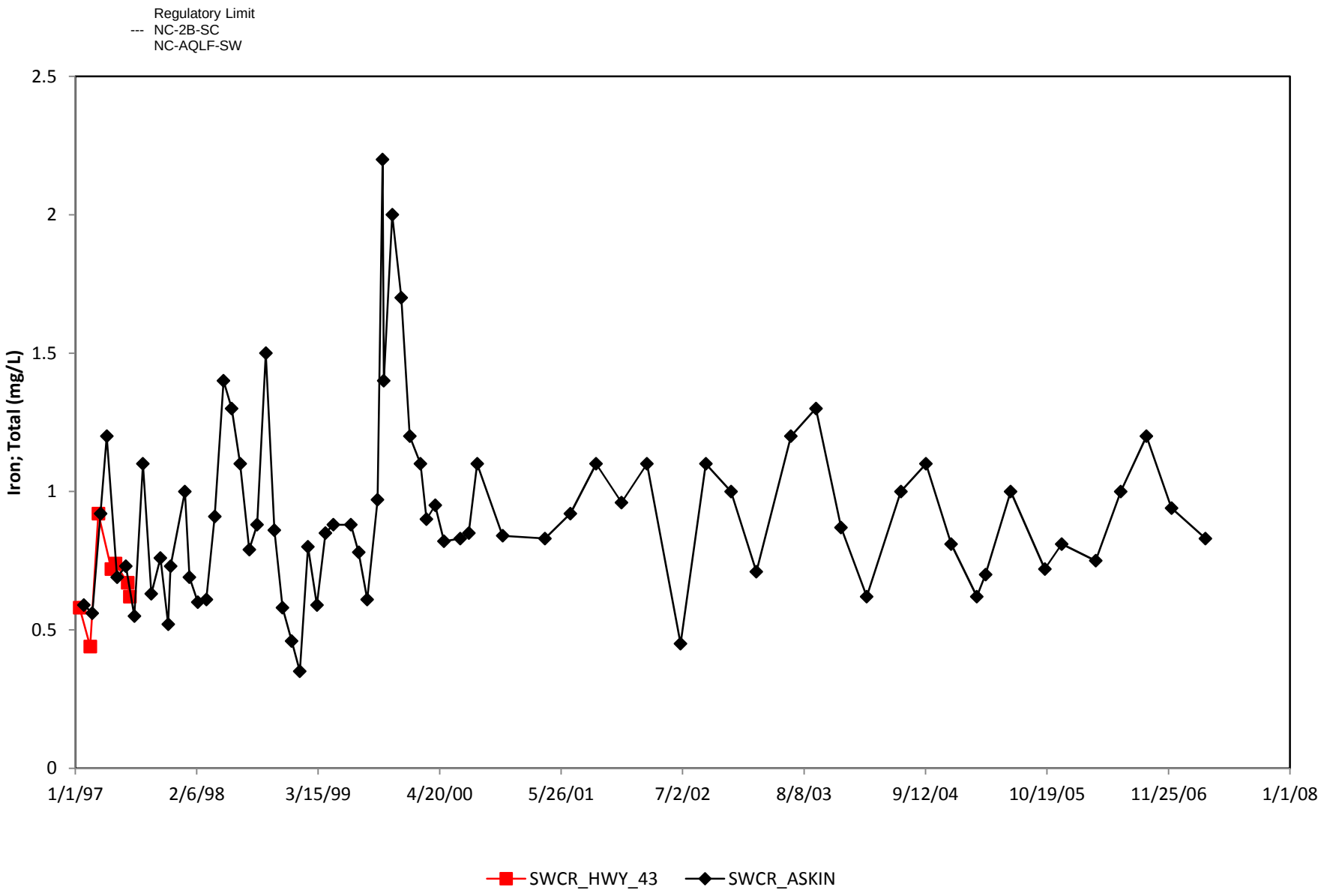


Swift Creek TS plots with ND.xls 3/14/2012

Figure B-9: Biochemical Oxygen Demand; Total (mg/L)

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.

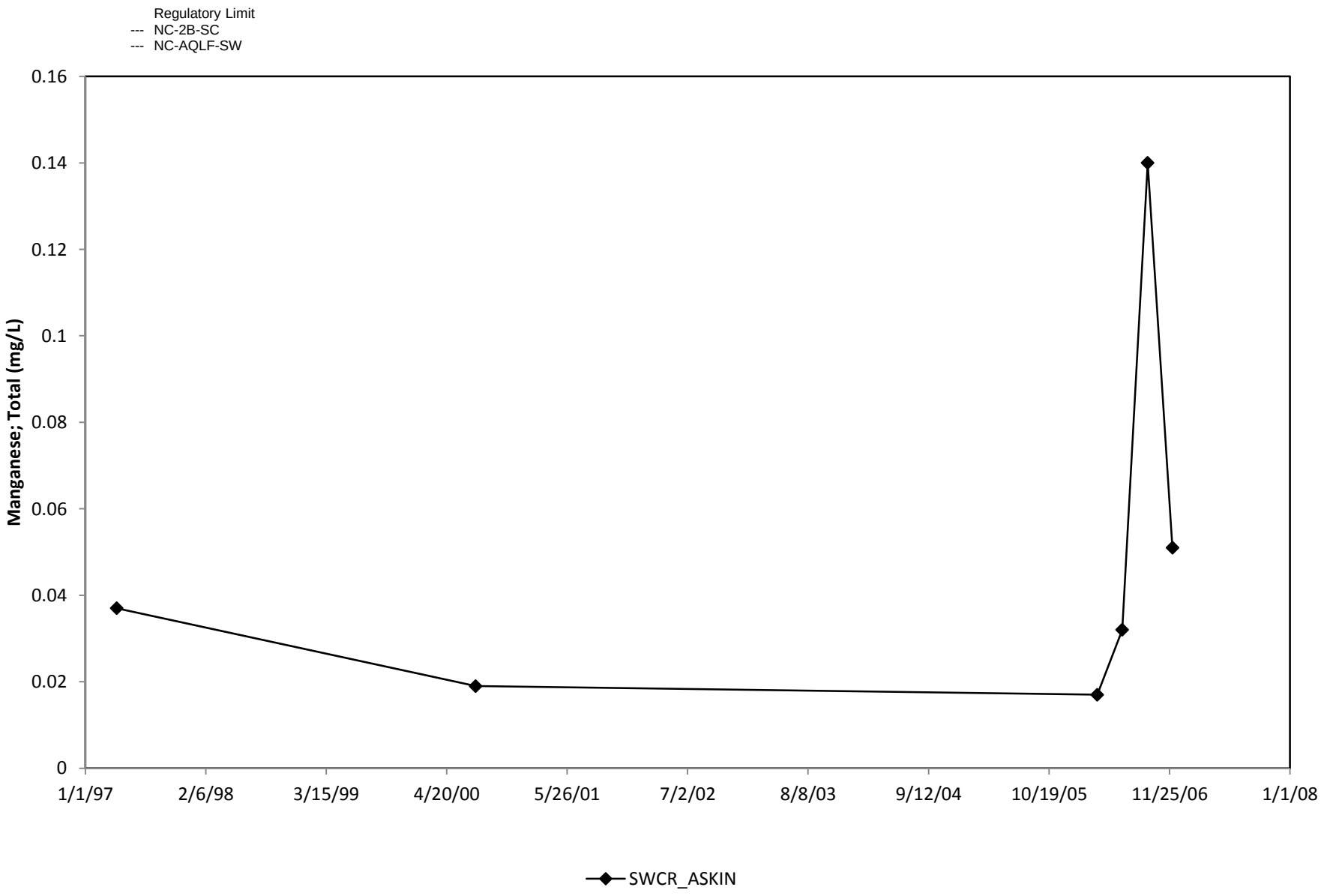


Swift Creek TS plots with ND.xls 3/14/2012

Figure B-10: Iron; Total (mg/L)

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.

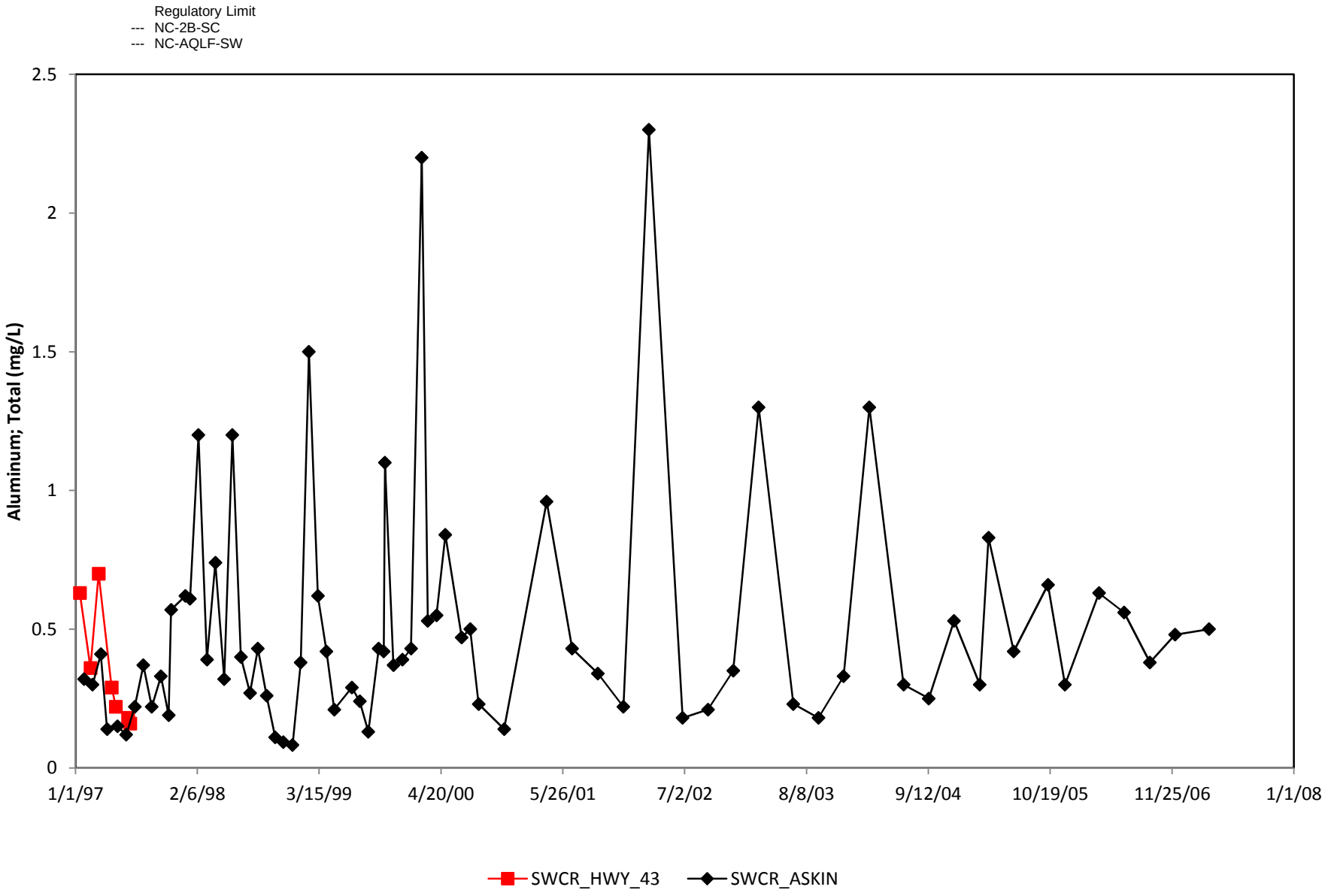


Swift Creek TS plots with ND.xls 3/14/2012

Figure B-11: Manganese; Total (mg/L)

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.

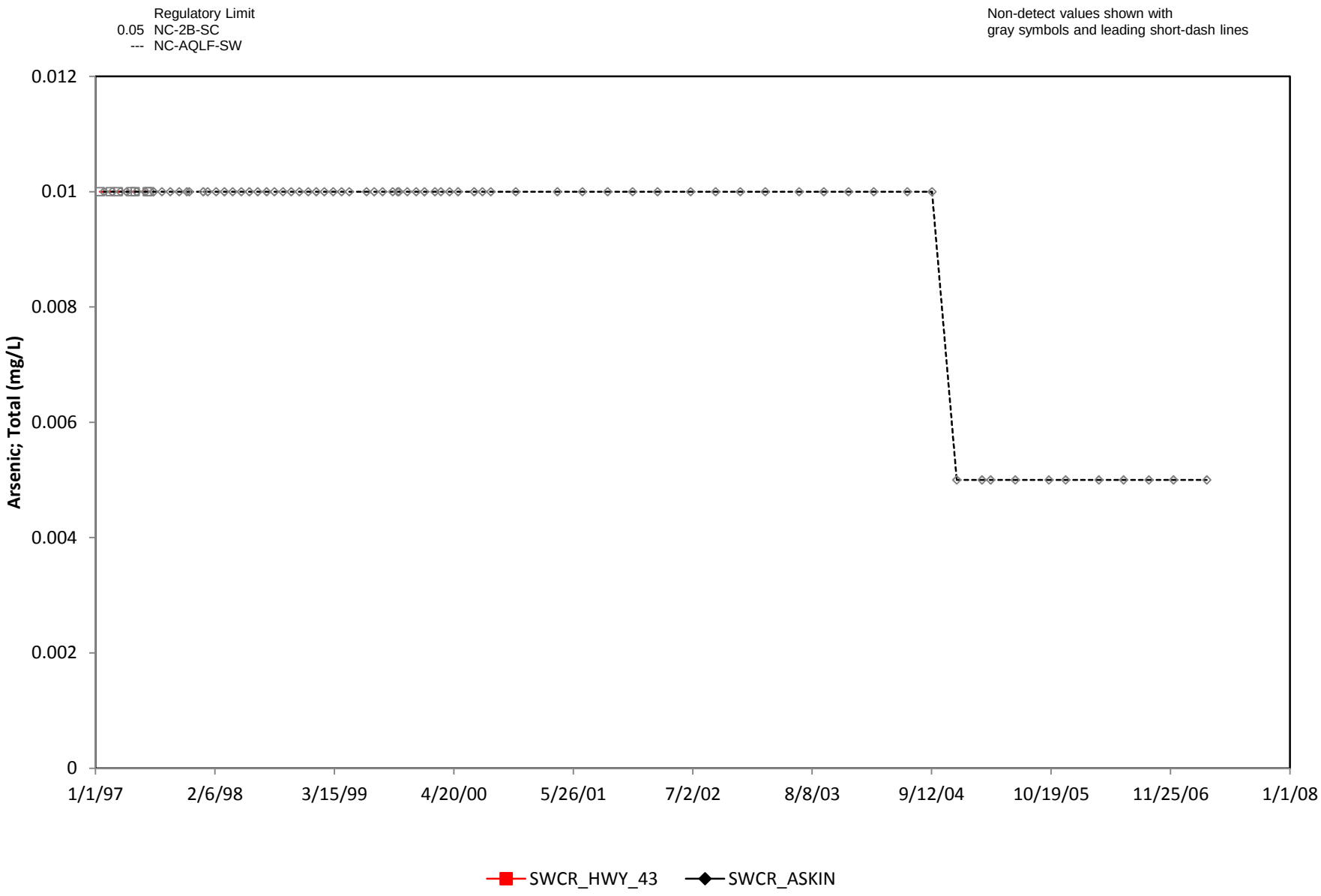


Swift Creek TS plots with ND.xls 3/14/2012

Figure B-12: Aluminum; Total (mg/L)

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.

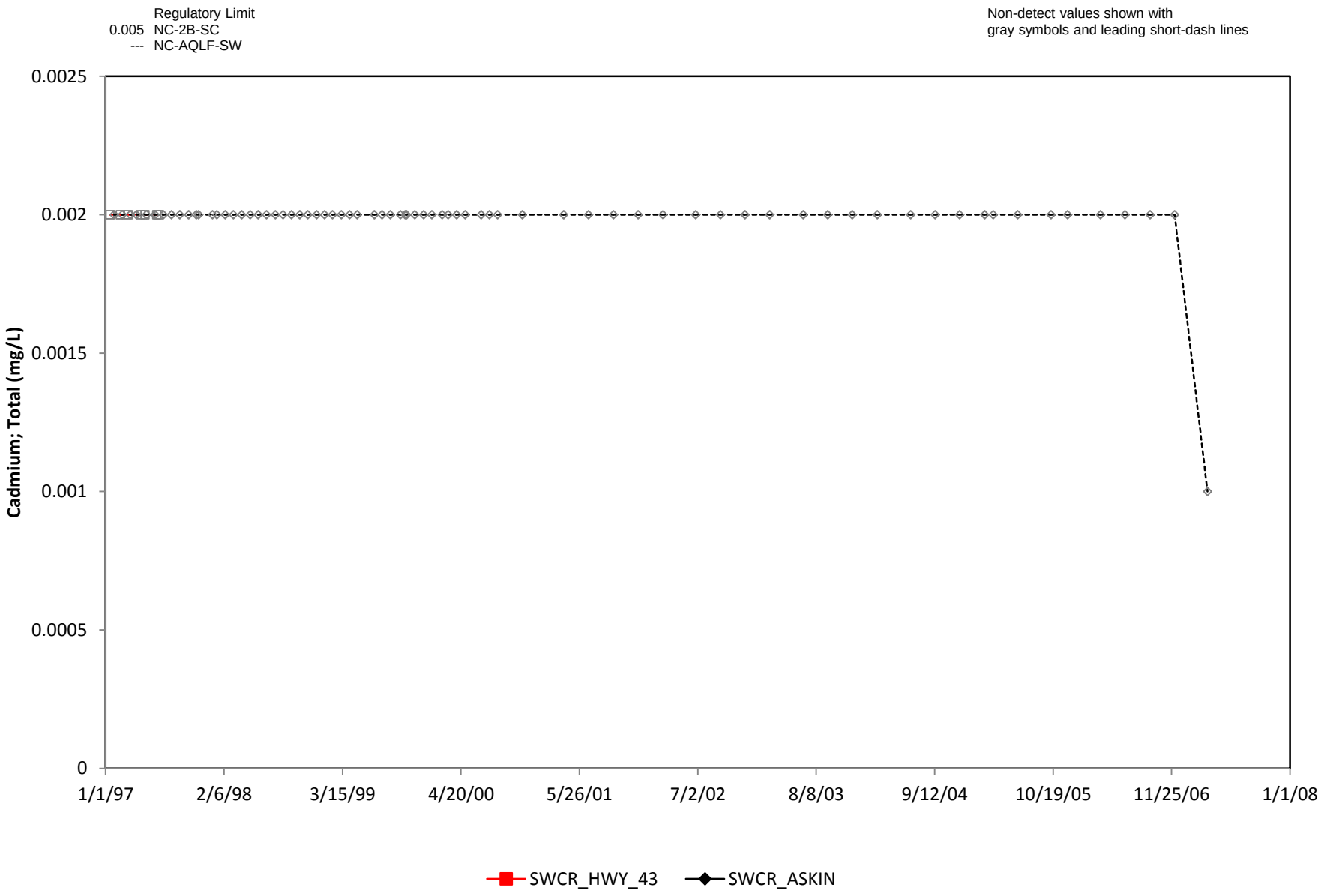


Swift Creek TS plots with ND.xls 3/14/2012

Figure B-13: Arsenic; Total (mg/L)

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.

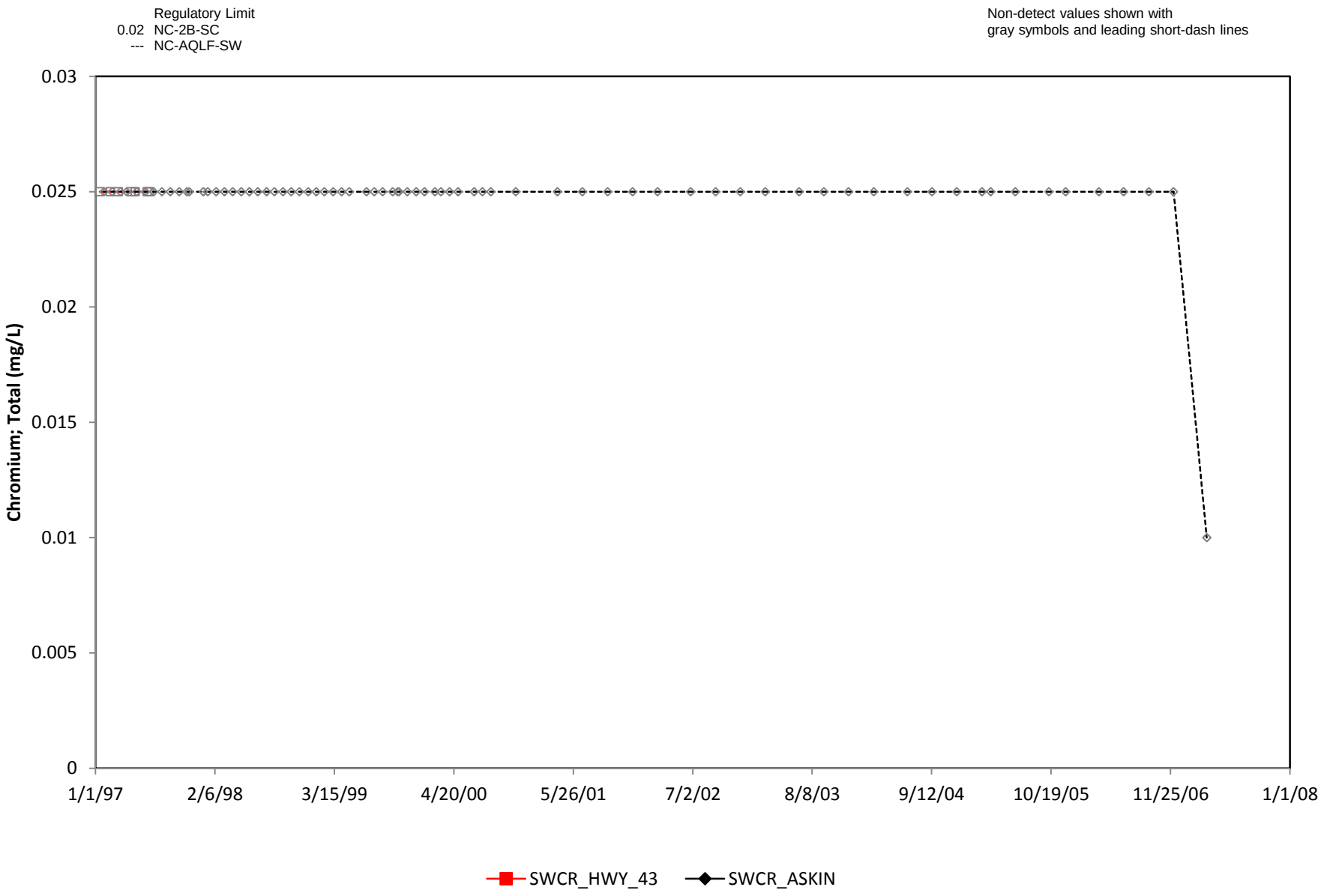


Swift Creek TS plots with ND.xls 3/14/2012

Figure B-14: Cadmium; Total (mg/L)

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.

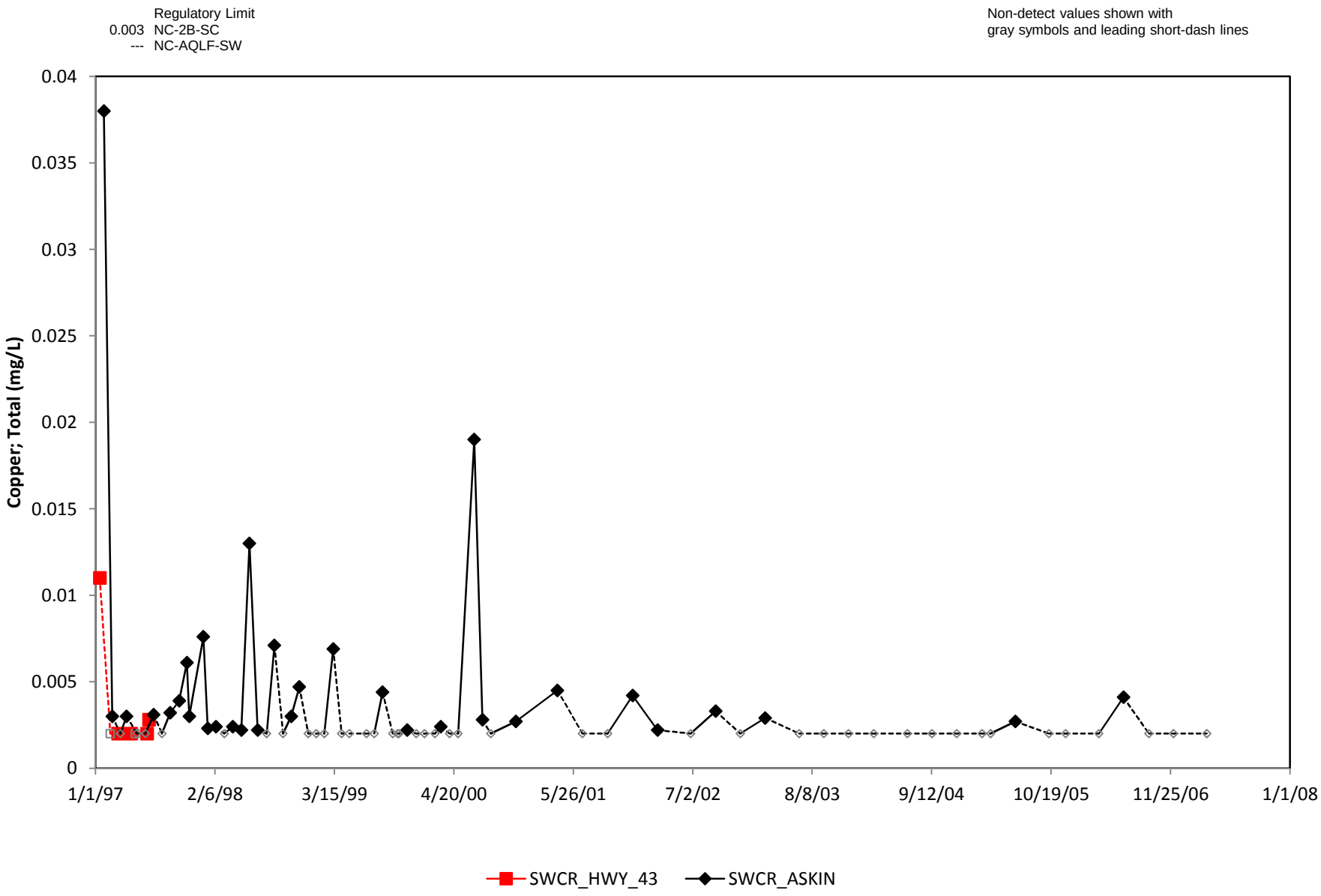


Swift Creek TS plots with ND.xls 3/14/2012

Figure B-15: Chromium; Total (mg/L)

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.

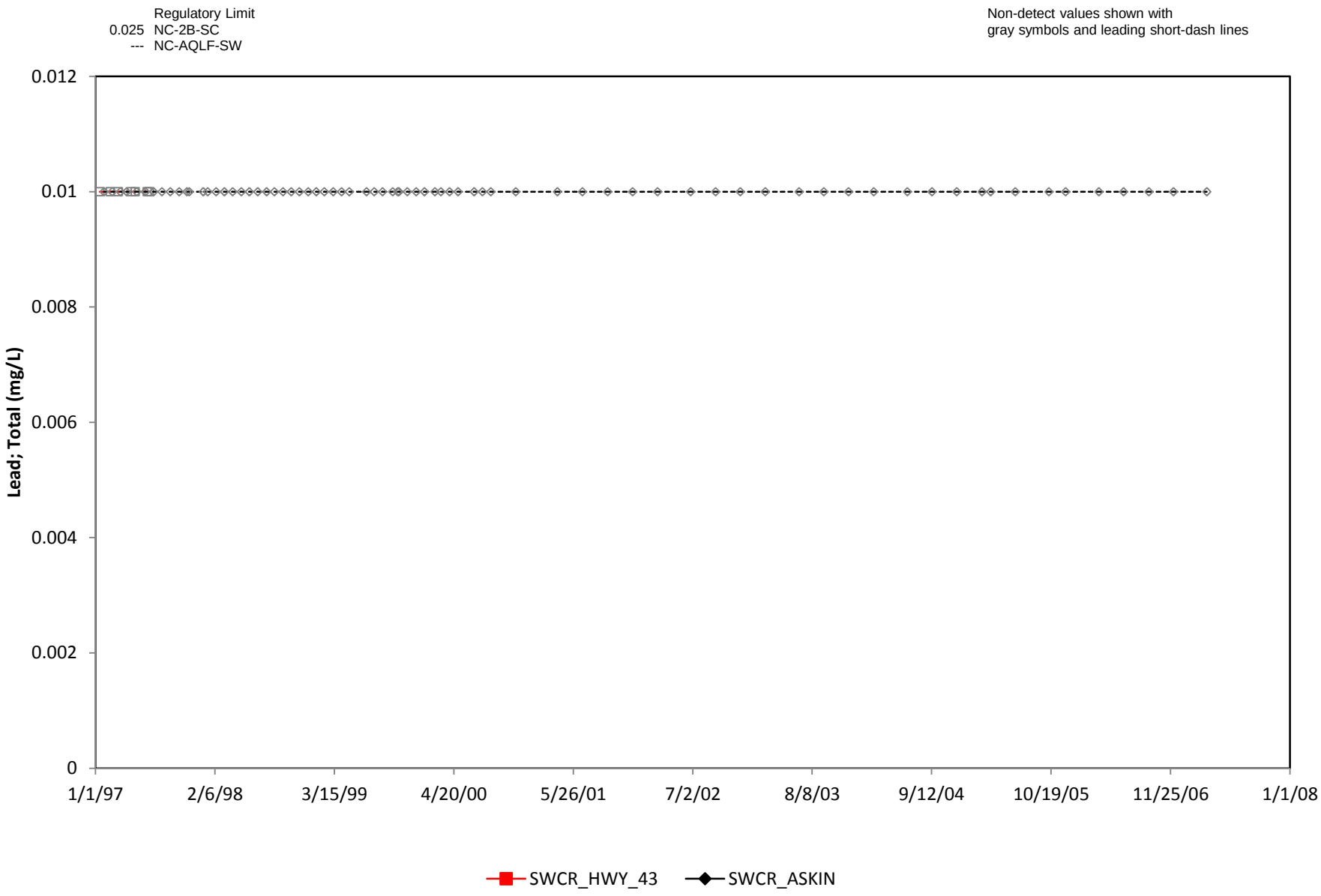


Swift Creek TS plots with ND.xls 3/14/2012

Figure B-16: Copper; Total (mg/L)

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.

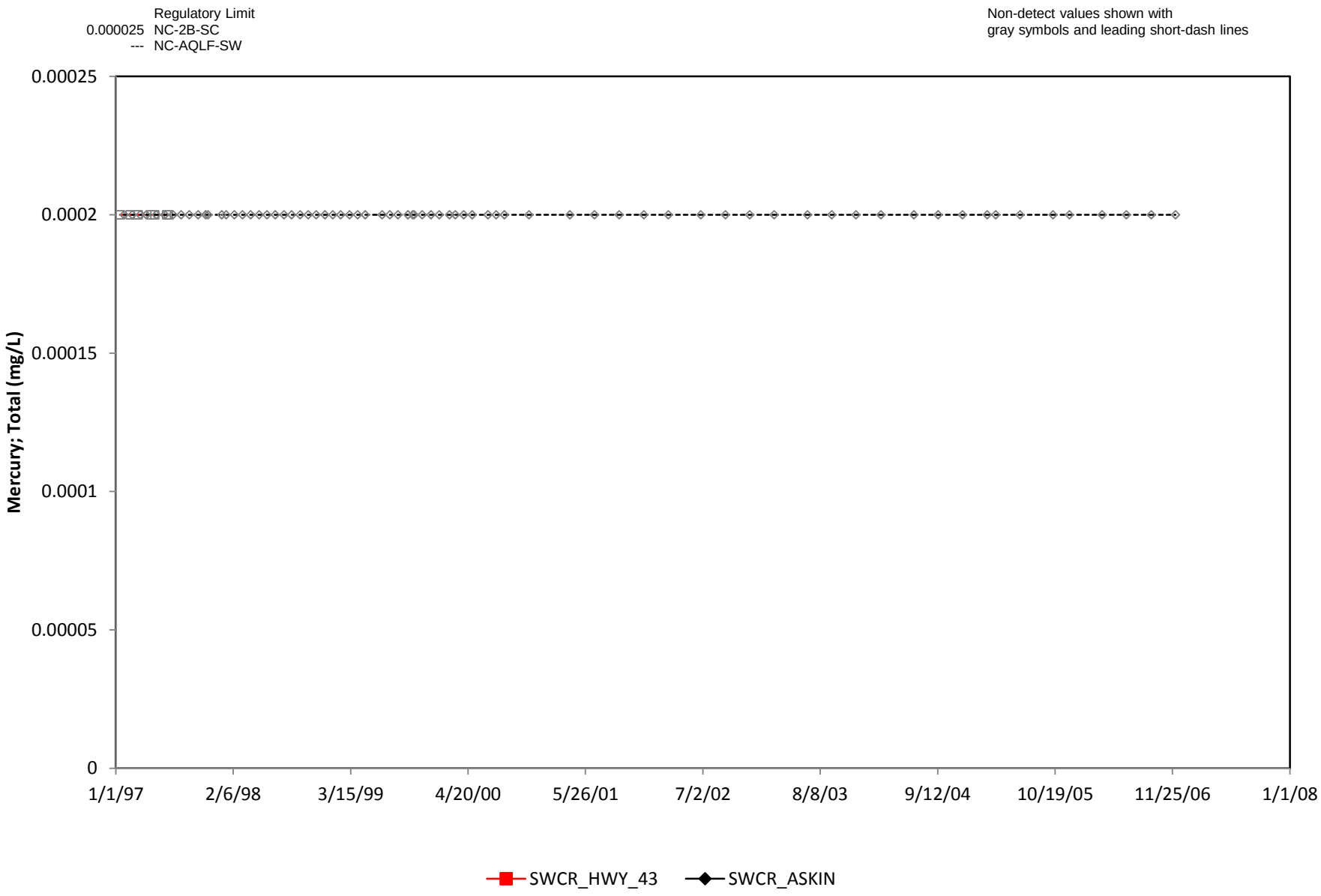


Swift Creek TS plots with ND.xls 3/14/2012

Figure B-17: Lead; Total (mg/L)

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.

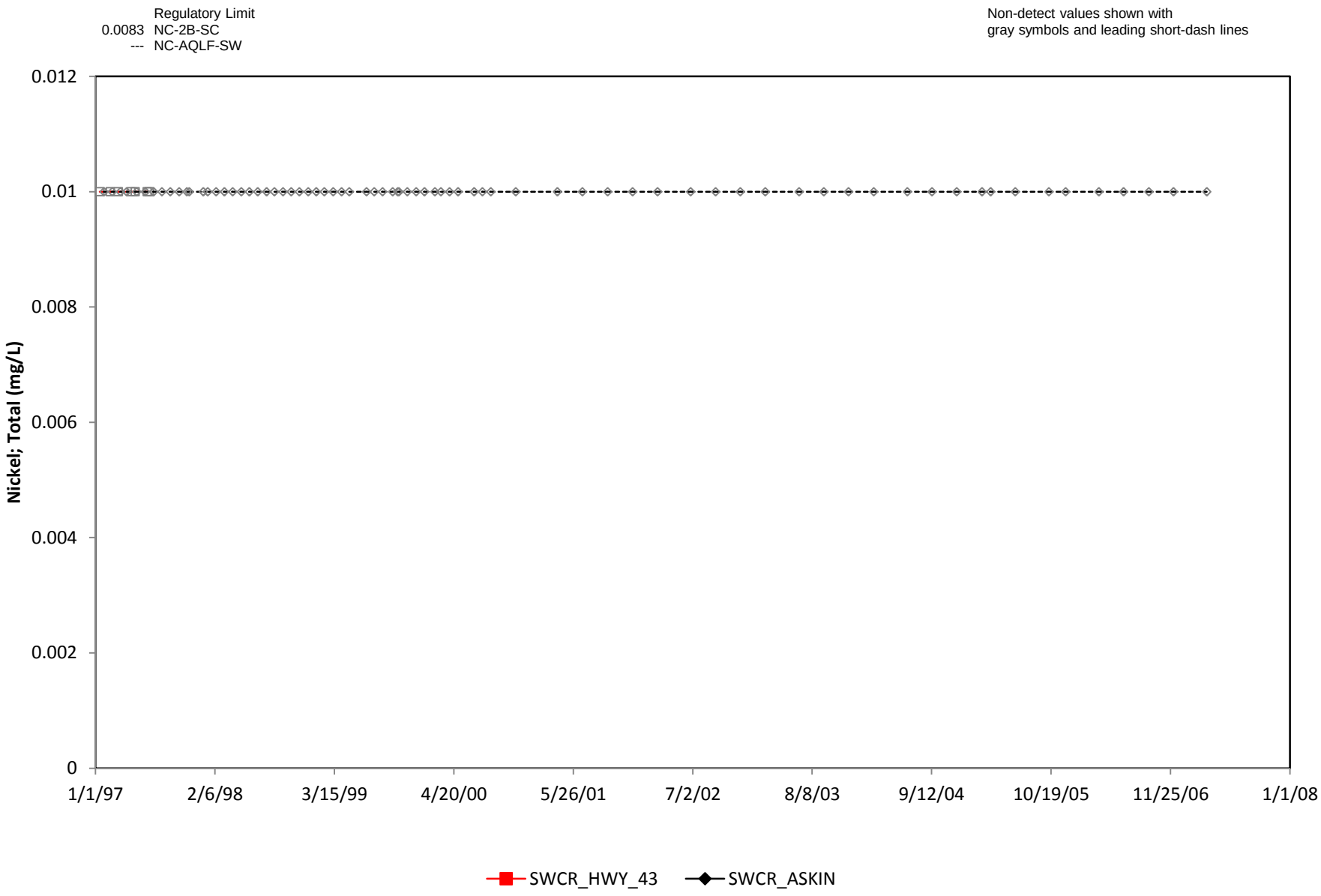


Swift Creek TS plots with ND.xls 3/14/2012

Figure B-18: Mercury; Total (mg/L)

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.

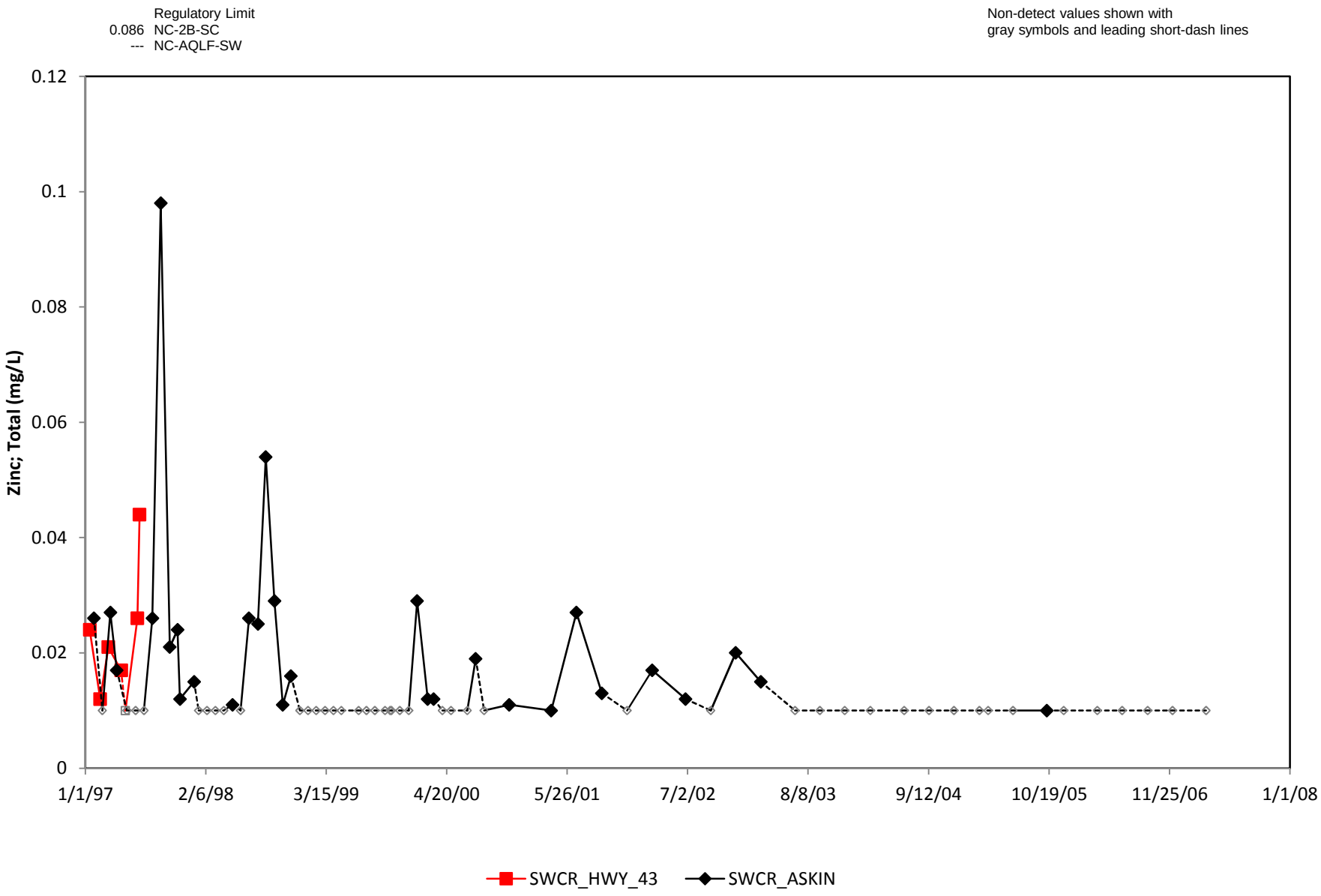


Swift Creek TS plots with ND.xls 3/14/2012

Figure B-19: Nickel; Total (mg/L)

Swift Creek Data from Highway 43 and Askin Sample Sites

PES Environmental, Inc.



Swift Creek TS plots with ND.xls 3/14/2012

Figure B-20: Zinc; Total (mg/L)

Table B-3
Swift Creek Water Quality Data

Sample Site ID	Sample Date / Sample Time	Sample Depth (ft)	Manganese Total (mg/L)	Aluminum Total (mg/L)	Arsenic Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
Surface Water Standard			---	---	0.05	0.005	0.02	0.003	0.025	0.000025	0.0083	0.086
SWCR_HWY_43	06/18/2007 / 10:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	06/25/2007 / 10:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/02/2007 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/09/2007 / 10:03	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/16/2007 / 10:23	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/24/2007 / 10:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	07/31/2007 / 09:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/06/2007 / 10:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/13/2007 / 09:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/20/2007 / 11:42	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	08/27/2007 / 10:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/04/2007 / 11:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/10/2007 / 10:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/17/2007 / 10:20	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	09/24/2007 / 10:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/01/2007 / 09:40	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/08/2007 / 09:15	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/15/2007 / 10:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/23/2007 / 09:55	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	10/29/2007 / 10:30	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/05/2007 / 10:07	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/13/2007 / 10:45	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/19/2007 / 09:50	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	11/26/2007 / 10:10	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/03/2007 / 10:25	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/11/2007 / 10:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/17/2007 / 10:05	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/27/2007 / 09:00	0.3	---	---	---	---	---	---	---	---	---	---
SWCR_HWY_43	12/31/2007 / 09:45	0.3	---	---	---	---	---	---	---	---	---	---

Sample Locaitons

Sample Site ID	Sample Site Description
SWCR_HWY_43	Swift Creek at Highway 43 near Streets Ferry
SWCR_ASKIN	Swift Creek at Mouth near Askin

Data accessed from STORET, October 2011

Surface Water Standard:
15A NCAC 2B, Saltwater aquatic life
15A NCAC 2B, Swamp water (Sw)
Value in brackets [] exceeds standard

APPENDIX C

ILF CHEMISTRY DATA

Table C-1
ILF General Chemistry and Metals Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Total Dissolved Solids Total (mg/L)	Nitrate (as N) Total (mg/L)	Chloride Total (mg/L)	Fluoride Total (mg/L)	Sulfate Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Chemical Oxygen Demand Total (mg/L)	Total Organic Halogens Total (mg/L)	Total Organic Carbon Total (mg/L)	Iron Total (mg/L)	Manganese Total (mg/L)	Antimony Total (mg/L)	Arsenic Total (mg/L)
2L Groundwater Class GA Stds			---	6.5-8.5	---	500	10	250	2	250	---	---	---	---	0.3	0.05	---	0.01
NC-2L-GW IMAC			---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	---
NC-GWP Stds			---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	---
LC-01	8/17/1989	Primary	28	7.9	1384	[1295]	<0.02	64	0.11	54	115	240	0.169	54.02	[3.460]	[0.167]	---	<0.005
LC-01	6/28/1990	Primary	26	8.4	2850	[2183]	<0.02	140	<0.10	80	39	218	0.045	303	[39.90]	[1.600]	---	0.007
LC-01	7/18/1991	Primary	32	8.3	1880	[1170]	<0.02	87	0.22	47	11	150	0.061	51.57	[1.035]	[0.108]	---	[0.066]
LC-01	2/9/1993	Primary	9	7	680	[518]	0.06	14	0.1	27	<1	306	0.062	74.61	[1.964]	[0.196]	---	<0.005
LC-01	8/3/1993	Primary	30	7.7	1300	[923]	0.02	68	0.31	58	24	313	0.041	49.69	[0.791]	[0.070]	---	<0.005
LC-01	2/8/1994	Primary	11	6.9	1140	[951]	<0.02	51	0.22	50	14	99	0.035	35.03	[2.575]	[0.271]	---	<0.005
LC-01	8/10/1994	Primary	31	7.3	1200	[856]	<0.04	54	0.12	60	23	94	0.029	32.21	[1.845]	[0.216]	---	<0.010
LC-01	2/7/1995	Primary	4	7.6	1800	[996]	0.12	111	0.52	60	5.8	61	0.025	24.64	[2.402]	[0.131]	---	<0.010
LC-01	8/7/1995	Primary	29	7.8	1100	[783]	0.08	38	0.23	80	12	102	0.022	29.98	[1.739]	[0.100]	---	<0.010
LC-01	2/13/1996	Primary	9	7.9	1400	[1060]	<0.04	69	0.4	63	19	102	0.024	31.72	[3.430]	[0.194]	---	<0.010
LC-01	2/6/1997	Primary	11	7.6	1600	[1060]	<0.04	68	0.037	26	15	76	0.028	29.82	[1.494]	[0.186]	---	<0.01
LC-01	8/15/1997	Primary	30	8	1500	[1080]	0.05	67	0.18	71.9	10	150	0.026	41.85	[29.37]	[0.073]	---	<0.01
LC-01	2/16/1998	Primary	7	[5.9]	110	110	0.37	8	<0.1	11.5	<1.6	26	0.03	16.32	[0.794]	0.036	---	<0.01
LC-01	8/31/1998	Primary	29	7	1000	[613]	<0.04	38	0.18	58.9	8.6	67	0.036	23.72	[0.749]	[0.114]	---	<0.01
LC-01	2/10/1999	Primary	15	8.2	1800	[1180]	<0.04	38	<0.1	[414.6]	19	255	0.045	37.82	[2.46]	[0.211]	---	<0.01
LC-01	8/4/1999	Primary	26	8.3	1400	[967]	<0.04	70	0.18	96.7	55	266	0.047	39.38	[2.162]	[0.209]	---	<0.01
LC-01	2/7/2000	Primary	8	6.8	2400	[1340]	<0.04	29	0.11	127.3	<8	74	0.044	26.4	[2.638]	[0.451]	---	<0.01
LC-01	8/17/2000	Primary	25	8.5	1500	[1060]	0.09	29	<0.1	143.5	24	134	0.05	69.21	[3.655]	0.031	---	<0.01
LC-01	2/1/2001	Primary	10	7.5	1600	[1160]	<0.04	19	<0.1	75.4	13	101	0.038	32.98	[3.636]	[0.302]	---	<0.01
LC-01	2/19/2002	Primary	14	8.5	2100	---	---	---	---	143.9	---	---	---	---	---	---	<0.03	<0.01
LC-01	8/27/2002	Primary	25	[6.2]	1000	---	---	---	---	123.4	---	---	---	---	---	---	<0.03	<0.01
LC-01	2/24/2003	Primary	13	7.9	3150	---	---	---	---	179.8	---	---	---	---	---	---	<0.03	<0.01
LC-01	8/26/2003	Primary	23	6.8	1110	---	---	---	---	26.2	---	---	---	---	---	---	<0.03	[0.014]
LC-01	2/2/2004	Primary	2	8	3660	---	---	---	---	<5.0	---	---	---	---	---	---	<0.03	<0.01
LC-01	8/19/2004	Primary	35	7.5	1022	---	---	---	---	96.4	---	---	---	---	---	---	<0.03	<0.01
LC-01	2/9/2005	Primary	11	8.2	1875	---	---	---	---	217.6	---	---	---	---	---	---	<0.03	<0.01
LC-01	8/26/2005	Primary	23	8.1	3770	---	---	---	---	<5.0	---	---	---	---	---	---	<0.03	<0.01
LC-01	2/2/2006	Primary	10	8	1459	---	---	---	---	38.2	---	---	---	---	---	---	<0.03	<0.01
LC-01	8/1/2006	Primary	29	8.2	1586	---	---	---	---	68.5	---	---	---	---	---	---	<0.03	<0.01
LC-01	2/22/2007	Primary	14	8.1	2320	---	---	---	---	59	---	---	---	---	---	---	<0.006	<0.01
LC-01	8/30/2007	Primary	26	8	1184	---	---	---	---	47.3JL	---	---	---	---	---	---	0.0002JL	0.0017JL
LC-01	2/21/2008	Primary	6	7.9	1005	---	---	---	---	72.4J	---	---	---	---	---	---	0.0003JL	0.0006JL
LC-01	8/5/2008	Primary	28	7.8	871	---	---	---	---	<5.0U	---	---	---	---	---	---	0.0003JL	0.0021JL
LC-01	2/20/2009	Primary	6	8.1	1697	---	---	---	---	40.6JL	---	---	---	---	---	---	0.0007JL	0.0013J
LC-01	8/11/2009	Primary	28	8	1361	---	---	---	---	11.2JL	---	---	---	---	---	---	0.0003JL	0.0025J
LC-01	2/19/2010	Primary	5	7.6	1643	---	---	---	---	21.3JL	---	---	---	---	---	---	<0.00006U	0.0006JL
LC-01	8/18/2010	Primary	30	7.8	2075	---	---	---	---	<5.0U	---	---	---	---	---	---	<0.00022U	0.0038J

Table C-1
ILF General Chemistry and Metals Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Total Dissolved Solids Total (mg/L)	Nitrate (as N) Total (mg/L)	Chloride Total (mg/L)	Fluoride Total (mg/L)	Sulfate Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Chemical Oxygen Demand Total (mg/L)	Total Organic Halogens Total (mg/L)	Total Organic Carbon Total (mg/L)	Iron Total (mg/L)	Manganese Total (mg/L)	Antimony Total (mg/L)	Arsenic Total (mg/L)
2L Groundwater Class GA Stds			---	6.5-8.5	---	500	10	250	2	250	---	---	---	---	0.3	0.05	---	0.01
NC-2L-GW IMAC			---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	---
NC-GWP Stds			---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	---
LC-01	2/3/2011	Primary	10	7.8	1935	---	---	---	---	61.8J	---	---	---	---	---	---	0.0003JL	0.0016J
LC-01	8/30/2011	Primary	24	7.1	411	---	---	---	---	38.8JL	---	---	---	---	---	---	0.00032JL	0.00066JL
OWD-01	8/17/1989	Primary	24	6.9	738	[568]	<0.02	23	0.36	45	11	205	0.016	8.5	[63.30]	[1.800]	---	0.006
OWD-01	6/28/1990	Primary	25	6.8	772	404	<0.02	17	<0.10	29	1.6	51	0.017	9.64	[39.90]	[2.460]	---	[0.010]
OWD-01	7/18/1991	Primary	21	6.7	725	392	<0.02	19	<0.10	26	1.3	39	0.012	11.76	[23.07]	[1.000]	---	0.007
OWD-01	2/9/1993	Primary	15	6.6	750	487	<0.02	15	<0.10	36	1.2	38	0.017	14.19	[27.71]	[4.914]	---	0.008
OWD-01	8/3/1993	Primary	24	7.6	880	475	0.1	16	0.14	40	2.6	40	0.015	9.77	[29.26]	[3.652]	---	<0.005
OWD-01	2/8/1994	Primary	16	6.7	810	469	<0.02	16	<0.10	50	2.2	28	0.024	17.07	[25.27]	[4.395]	---	0.009
OWD-01	8/10/1994	Primary	18	[6.4]	860	498	<0.04	17	<0.10	40	2.2	31	0.014	14.02	[18.90]	[5.035]	---	<0.010
OWD-01	2/7/1995	Primary	11	6.6	910	498	<0.04	19	0.24	50	1.3	20	0.017	11.81	[23.51]	[4.475]	---	<0.010
OWD-01	8/7/1995	Primary	20	[6.4]	890	[547]	0.04	14	0.015	29	1.8	46	0.016	10.45	[32.08]	[3.605]	---	<0.010
OWD-01	2/13/1996	Primary	16	[6.4]	770	[542]	<0.04	15	<0.10	76	3.3	37	0.018	11.78	[19.69]	[4.570]	---	<0.010
OWD-01	8/1/1996	Primary	21	6.7	640	[525]	<0.04	17	<0.1	38	6.4	40	0.021	10.33	[15.2]	[0.203]	---	<0.01
OWD-01	2/6/1997	Primary	16	6.8	943	[501]	<0.04	17	0.14	48	3.9	32	0.02	9.75	[30.21]	[1.193]	---	[0.011]
OWD-01	8/15/1997	Primary	22	6.7	800	463	<0.04	19	<0.1	48.3	6.2	31	0.02	13.61	[0.760]	[2.06]	---	<0.01
OWD-01	2/16/1998	Primary	15	6.6	860	[524]	<0.04	15	0.1	35.4	4.9	22	0.016	8.74	[25.760]	[2.780]	---	<0.01
OWD-01	8/31/1998	Primary	22	[6.4]	940	471	<0.04	14	0.16	30.9	5.2	39	0.018	9.75	[25.04]	[2.250]	---	<0.01
OWD-01	2/10/1999	Primary	18	6.7	900	[516]	<0.04	12	<0.1	20.2	3.1	40	0.019	9.81	[29.78]	[1.969]	---	<0.01
OWD-01	8/4/1999	Primary	20	6.8	810	475	<0.04	13	0.1	36	6.1	45	0.016	9.53	[24.8]	[1.935]	---	[0.011]
OWD-01	2/7/2000	Primary	18	[6.4]	940	411	<0.04	10	<0.1	21.1	3.5	31	0.02	8.79	[24.100]	[2.018]	---	[0.011]
OWD-01	8/17/2000	Primary	21	[6.4]	800	448	<0.04	17	<0.1	19.3	3.5	31	0.025	9.45	[24.250]	[0.143]	---	<0.01
OWD-01	2/1/2001	Primary	17	[6.2]	800	447	<0.04	13	<0.1	24	6.2	31	0.027	10.85	[30.396]	[2.291]	---	[0.011]
OWD-01	8/1/2001	Primary	19	[6.4]	840	479	<0.04	11	<0.1	15.4	<2	36	0.031	10.16	[20.8]	[2.046]	---	[0.012]
OWD-01	2/19/2002	Primary	18	[6.2]	740	---	---	---	---	125.6	---	---	---	---	---	---	<0.03	[0.011]
OWD-01	8/27/2002	Primary	21	[5.9]	790	---	---	---	---	20.5	---	---	---	---	---	---	<0.03	[0.013]
OWD-01	2/24/2003	Primary	17	6.7	767	---	---	---	---	26	---	---	---	---	---	---	<0.03	[0.015]
OWD-01	8/26/2003	Primary	19	6.6	743	---	---	---	---	30.3	---	---	---	---	---	---	<0.03	[0.01]
OWD-01	2/2/2004	Primary	17	6.7	730	---	---	---	---	21	---	---	---	---	---	---	<0.03	[0.014]
OWD-01	8/19/2004	Primary	19	6.7	753	---	---	---	---	22.7	---	---	---	---	---	---	<0.03	[0.015]
OWD-01	2/9/2005	Primary	18	6.7	704	---	---	---	---	20.2	---	---	---	---	---	---	<0.03	[0.016]
OWD-01	8/26/2005	Primary	20	6.8	722	---	---	---	---	20.3	---	---	---	---	---	---	<0.03	[0.012]
OWD-01	2/2/2006	Primary	18	6.9	740	---	---	---	---	35.4	---	---	---	---	---	---	<0.03	[0.013]
OWD-01	8/1/2006	Primary	20	6.6	748	---	---	---	---	29.8	---	---	---	---	---	---	<0.03	<0.01
OWD-01	2/22/2007	Primary	16	6.7	766	---	---	---	---	30	---	---	---	---	---	---	<0.006	<0.01
OWD-01	8/30/2007	Primary	20	6.6	824	---	---	---	---	27.7JL	---	---	---	---	---	---	<0.00005U	0.0046JL
OWD-01	2/21/2008	Primary	14	6.8	727	---	---	---	---	37.7JL	---	---	---	---	---	---	<0.00008U	0.0035J
OWD-01	8/5/2008	Primary	20	6.7	738	---	---	---	---	36.4JL	---	---	---	---	---	---	0.0002JL	0.0058J

Table C-1
ILF General Chemistry and Metals Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Total Dissolved Solids Total (mg/L)	Nitrate (as N) Total (mg/L)	Chloride Total (mg/L)	Fluoride Total (mg/L)	Sulfate Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Chemical Oxygen Demand Total (mg/L)	Total Organic Halogens Total (mg/L)	Total Organic Carbon Total (mg/L)	Iron Total (mg/L)	Manganese Total (mg/L)	Antimony Total (mg/L)	Arsenic Total (mg/L)
2L Groundwater Class GA Stds			---	6.5-8.5	---	500	10	250	2	250	---	---	---	---	0.3	0.05	---	0.01
NC-2L-GW IMAC			---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	---
NC-GWP Stds			---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	---
OWD-01	2/20/2009	Primary	17	6.9	720	---	---	---	---	29.9JL	---	---	---	---	---	---	<0.00008U	0.0031J
OWD-01	8/11/2009	Primary	20	6.6	780	---	---	---	---	35.8JL	---	---	---	---	---	---	0.0001JL	0.007J
OWD-01	2/19/2010	Primary	16	6.6	692	---	---	---	---	14.1JL	---	---	---	---	---	---	<0.00006U	0.003J
OWD-01	8/18/2010	Primary	20	6.7	741	---	---	---	---	15.7JL	---	---	---	---	---	---	<0.00022U	0.0047J
OWD-01	2/3/2011	Primary	19	6.9	668	---	---	---	---	31.1JL	---	---	---	---	---	---	<0.00022U	0.0026J
OWD-01	8/30/2011	Primary	21	6.6	632	---	---	---	---	15JL	---	---	---	---	---	---	<0.00014U	0.007J
OWS-01	8/17/1989	Primary	24	6.5	228	147	<0.02	15	<0.10	29	8.9	126	0.024	12.36	[177]	[1.110]	---	0.006
OWS-01	6/28/1990	Primary	25	[6.3]	439	142	0.03	11	<0.10	26	3.1	197	0.019	11.9	[43.10]	[1.110]	---	<0.005
OWS-01	7/18/1991	Primary	21	[6.1]	190	133	<0.02	12	<0.10	24	2.8	65	0.024	23.99	[95.30]	[0.877]	---	<0.005
OWS-01	2/9/1993	Primary	15	[6.4]	220	195	<0.02	5	<0.10	10	1.3	45	0.02	18.64	[35.45]	[0.408]	---	<0.005
OWS-01	8/3/1993	Primary	23	[6.1]	460	248	0.02	23	<0.10	1	6.6+	41	0.02	18.16	[55.48]	[0.971]	---	<0.005
OWS-01	2/8/1994	Primary	14	[6.2]	330	272	<0.02	16	<0.10	6	3.6	48	0.016	24.9	[97.60]	[0.767]	---	<0.005
OWS-01	8/10/1994	Primary	22	[6.1]	250	389	<0.04	8	<0.10	4	3.3	54	0.022	18.98	[38.13]	[0.370]	---	<0.010
OWS-01	2/7/1995	Primary	8	[6.2]	210	225	<0.04	14	0.3	15	1.9	22	0.024	18.28	[35.18]	[1.506]	---	<0.010
OWS-01	8/7/1995	Primary	23	[6.3]	200	328	0.04	10	0.24	8	2.5	51	0.022	19.7	[43.11]	[0.454]	---	<0.010
OWS-01	2/13/1996	Primary	9	[6]	190	265	<0.04	8	<0.10	<5	4.4	29	0.019	13.67	[14.28]	[0.331]	---	<0.010
OWS-01	8/1/1996	Primary	23	[6.4]	190	190	<0.04	16	<0.1	6	2.5	67	0.016	22.1	[55.58]	[0.457]	---	<0.01
OWS-01	2/6/1997	Primary	12	6.7	300	235	<0.04	19	<0.1	<5.0	3.4	43	0.018	20.16	[36.68]	[0.493]	---	<0.01
OWS-01	8/15/1997	Primary	23	[6.4]	310	225	0.08	17	<0.1	<5.0	7.5	51	0.02	20.78	[27.60]	[0.665]	---	<0.01
OWS-01	2/16/1998	Primary	13	[5.9]	1100	[767]	0.84	14	<0.1	157.1	6.9+	57	0.022	28.27	[20.510]	[1.029]	---	<0.01
OWS-01	8/31/1998	Primary	24	[6.3]	320	241	<0.04	11	0.11	17.5	3.4	39	0.03	14.87	[30.72]	[0.430]	---	<0.01
OWS-01	2/10/1999	Primary	17	6.5	420	240	<0.04	12	<0.1	<5.0	3.6	54	0.032	21.02	[28.31]	[0.670]	---	<0.01
OWS-01	8/4/1999	Primary	21	6.5	380	257	<0.04	13	0.13	9.4	2.9	50	0.036	19.09	[29.29]	[0.798]	---	<0.01
OWS-01	2/7/2000	Primary	12	[6.2]	400	238	<0.04	10	<0.1	<5.0	2.8	33	0.041	18.62	[37.59]	[0.460]	---	<0.01
OWS-01	8/17/2000	Primary	23	[6.3]	320	211	0.06	18	<0.1	<5.0	2.4	36	0.045	14.35	[25.290]	<0.010	---	<0.01
OWS-01	2/1/2001	Primary	15	[6.1]	1500	[587]	1.12	19	<0.1	5.6	2.8	61	0.035	22.09	[18.72]	[1.331]	---	<0.01
OWS-01	8/1/2001	Primary	21	[6.2]	230	172	<0.04	10	<0.1	5.5	<2	51	0.031	20.62	[24.57]	[0.322]	---	<0.01
OWS-01	2/19/2002	Primary	15	[6.1]	260	---	---	---	---	160.3	---	---	---	---	---	---	<0.03	<0.01
OWS-01	8/27/2002	Primary	24	[4.6]	490	---	---	---	---	<5.0	---	---	---	---	---	---	<0.03	<0.01
OWS-01	2/24/2003	Primary	11	[6.4]	282	---	---	---	---	<5.0	---	---	---	---	---	---	<0.03	[0.019]
OWS-01	8/26/2003	Primary	23	[6.2]	268	---	---	---	---	30.5	---	---	---	---	---	---	<0.03	<0.01
OWS-01	2/2/2004	Primary	11	6.5	303	---	---	---	---	5.2	---	---	---	---	---	---	<0.03	<0.01
OWS-01	8/19/2004	Primary	23	[6.3]	238	---	---	---	---	<5.0	---	---	---	---	---	---	<0.03	<0.01
OWS-01	2/9/2005	Primary	13	[6.4]	976	---	---	---	---	25.5	---	---	---	---	---	---	<0.03	<0.01
OWS-01	8/26/2005	Primary	22	[6.3]	220	---	---	---	---	<5.0	---	---	---	---	---	---	<0.03	<0.01
OWS-01	2/2/2006	Primary	13	6.5	286	---	---	---	---	14.2	---	---	---	---	---	---	<0.03	<0.01
OWS-01	8/1/2006	Primary	22	6.7	493	---	---	---	---	15.7	---	---	---	---	---	---	<0.03	<0.01

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ILF General Chemistry and Metals Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Total Dissolved Solids Total (mg/L)	Nitrate (as N) Total (mg/L)	Chloride Total (mg/L)	Fluoride Total (mg/L)	Sulfate Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Chemical Oxygen Demand Total (mg/L)	Total Organic Halogens Total (mg/L)	Total Organic Carbon Total (mg/L)	Iron Total (mg/L)	Manganese Total (mg/L)	Antimony Total (mg/L)	Arsenic Total (mg/L)
2L Groundwater Class GA Stds			---	6.5-8.5	---	500	10	250	2	250	---	---	---	---	0.3	0.05	---	0.01
NC-2L-GW IMAC			---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	---
NC-GWP Stds			---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	---
OWS-01	2/22/2007	Primary	13	6.5	383	---	---	---	---	<5.0	---	---	---	---	---	---	<0.006	<0.01
OWS-01	8/30/2007	Primary	22	[6.4]	294	---	---	---	---	13.8JL	---	---	---	---	---	---	<0.00005U	0.0022JL
OWS-01	2/21/2008	Primary	9	[6.3]	242	---	---	---	---	<5.0U	---	---	---	---	---	---	<0.00008U	0.0036J
OWS-01	8/5/2008	Primary	20	[6.3]	278	---	---	---	---	9.5JL	---	---	---	---	---	---	0.0001JL	0.0025JL
OWS-01	2/20/2009	Primary	11	6.5	303	---	---	---	---	<5.0U	---	---	---	---	---	---	<0.00008U	0.0014J
OWS-01	8/11/2009	Primary	22	[6.2]	293	---	---	---	---	11JL	---	---	---	---	---	---	<0.00006U	0.0043J
OWS-01	2/19/2010	Primary	15	[6.1]	833	---	---	---	---	<5.0U	---	---	---	---	---	---	<0.00006U	0.0033J
OWS-01	8/18/2010	Primary	23	[6.3]	308	---	---	---	---	5.3JL	---	---	---	---	---	---	<0.00022U	0.0039J
OWS-01	2/3/2011	Primary	13	[6.4]	272	---	---	---	---	<5.0U	---	---	---	---	---	---	<0.00022U	0.002J
OWS-01	8/30/2011	Primary	24	[6.3]	290	---	---	---	---	6.2JL	---	---	---	---	---	---	0.00027JL	0.002J
OWS-02	8/17/1989	Primary	23	6.5	975	[643]	<0.02	31	<0.10	18	18	197	0.046	28.96	[111]	[1.330]	---	[0.014]
OWS-02	6/28/1990	Primary	25	[6.4]	703	424	<0.02	<1	<0.10	20	6.9	194	0.052	23.4	[109]	[1.250]	---	0.006
OWS-02	7/18/1991	Primary	21	[6.3]	616	291	<0.02	21	<0.10	9	6	263	0.044	34.01	[155.1]	[1.038]	---	[0.010]
OWS-02	2/9/1993	Primary	15	[6.3]	820	492	0.72	14	<0.10	16	1.8	90	0.024	45.68	[114.60]	[1.638]	---	0.007
OWS-02	8/3/1993	Primary	23	[6.2]	750	[594]	0.02	<1	<0.10	10	6.5+	81	0.027	27.42	[130.6]	[1.048]	---	<0.005
OWS-02	2/8/1994	Primary	15	6.6	1000	[585]	0.03	16	<0.10	16	3.9	59	0.031	37.41	[57.35]	[2.528]	---	<0.005
OWS-02	8/10/1994	Primary	22	[6.3]	1000	[655]	<0.04	16	<0.10	21	5.5+	93	0.028	30.16	[82.70]	[1.487]	---	<0.010
OWS-02	2/7/1995	Primary	11	[6.3]	680	[513]	0.52	16	0.36	30	1.9	<10	0.028	20.87	[42.58]	[1.800]	---	<0.010
OWS-02	8/7/1995	Primary	22	[6.4]	1400	[809]	0.04	10	<0.10	6	5.2	71	0.028	21.86	[63.10]	[1.068]	---	<0.010
OWS-02	2/13/1996	Primary	15	[6.1]	1000	[894]	6.78	12	<0.10	40	4.4	72	0.035	30.38	[0.835]	[0.737]	---	<0.010
OWS-02	8/1/1996	Primary	22	[6.4]	1000	[637]	<0.04	16	<0.1	12	4.4	94	0.031	32.85	[77.54]	[1.226]	---	<0.01
OWS-02	2/6/1997	Primary	14	6.6	1000	[524]	2.12	15	0.11	14	6.3+	59	0.027	25.41	0.094	<0.010	---	<0.01
OWS-02	8/15/1997	Primary	23	[6.3]	930	486	<0.04	17	<0.1	30.8	11+	62	0.033	22.82	[85.20]	[1.68]	---	<0.01
OWS-02	2/16/1998	Primary	11	[6]	280	276	<0.04	15	<0.1	<5.0	8.1	29	0.03	18.47	[54.500]	[0.715]	---	<0.01
OWS-02	8/31/1998	Primary	25	[6.4]	1400	[763]	0.47	17	0.11	21.2	6.4+	60	0.027	22.35	[30.23]	[0.943]	---	<0.01
OWS-02	2/10/1999	Primary	16	6.6	1200	[713]	1.48	12	<0.1	29.9	7.6	53	0.036	20.56	[25.54]	[1.141]	---	<0.01
OWS-02	8/4/1999	Primary	23	6.6	990	[579]	<0.04	15	0.11	<5.0	6.5	67	0.036	22.27	[42.26]	[1.565]	---	<0.01
OWS-02	2/7/2000	Primary	14	[6.4]	1300	[529]	2.29	13	<0.1	12.5	6.1	50	0.036	20.17	[17.8]	[1.095]	---	<0.01
OWS-02	8/17/2000	Primary	22	[6.3]	960	[529]	<0.04	12	<0.1	7	8.2	55	0.041	21.03	[55.070]	[0.749]	---	<0.01
OWS-02	2/1/2001	Primary	11	[6.2]	290	249	<0.04	10	<0.1	7.6	8.5	68	0.032	19.88	[65.44]	[0.633]	---	<0.01
OWS-02	8/1/2001	Primary	20	[6.4]	800	[524]	<0.04	12	<0.1	22.9	2.7	51	0.028	17.3	[42.9]	[1.604]	---	<0.01
OWS-02	2/19/2002	Primary	16	[6]	930	---	---	---	---	163.7	---	---	---	---	---	---	<0.03	<0.01
OWS-02	8/27/2002	Primary	23	[5.4]	730	---	---	---	---	24	---	---	---	---	---	---	<0.03	<0.01
OWS-02	2/24/2003	Primary	14	6.8	1113	---	---	---	---	45.8	---	---	---	---	---	---	<0.03	<0.01
OWS-02	8/26/2003	Primary	22	[6.4]	971	---	---	---	---	<5.0	---	---	---	---	---	---	<0.03	<0.01
OWS-02	2/2/2004	Primary	15	6.8	858	---	---	---	---	23.6	---	---	---	---	---	---	<0.03	<0.01
OWS-02	8/19/2004	Primary	22	6.6	1082	---	---	---	---	67.1	---	---	---	---	---	---	<0.03	<0.01

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ILF General Chemistry and Metals Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Total Dissolved Solids Total (mg/L)	Nitrate (as N) Total (mg/L)	Chloride Total (mg/L)	Fluoride Total (mg/L)	Sulfate Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Chemical Oxygen Demand Total (mg/L)	Total Organic Halogens Total (mg/L)	Total Organic Carbon Total (mg/L)	Iron Total (mg/L)	Manganese Total (mg/L)	Antimony Total (mg/L)	Arsenic Total (mg/L)
2L Groundwater Class GA Stds			---	6.5-8.5	---	500	10	250	2	250	---	---	---	---	0.3	0.05	---	0.01
NC-2L-GW IMAC			---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	---
NC-GWP Stds			---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	---
OWS-02	2/9/2005	Primary	15	6.9	269	---	---	---	---	46.7	---	---	---	---	---	---	<0.03	<0.01
OWS-02	8/26/2005	Primary	21	6.7	701	---	---	---	---	13.4	---	---	---	---	---	---	<0.03	<0.01
OWS-02	2/2/2006	Primary	16	6.9	1001	---	---	---	---	21	---	---	---	---	---	---	<0.03	[0.025]
OWS-02	8/1/2006	Primary	23	6.5	902	---	---	---	---	36.5	---	---	---	---	---	---	<0.03	<0.01
OWS-02	2/22/2007	Primary	15	6.8	1074	---	---	---	---	38	---	---	---	---	---	---	<0.006	<0.01
OWS-02	8/30/2007	Primary	22	6.6	752	---	---	---	---	<5.0U	---	---	---	---	---	---	<0.00005U	0.0022JL
OWS-02	2/21/2008	Primary	11	6.8	1379	---	---	---	---	190.6J	---	---	---	---	---	---	0.0006JL	0.0008J
OWS-02	8/5/2008	Primary	22	6.7	1113	---	---	---	---	137.3J	---	---	---	---	---	---	0.0004JL	0.001JL
OWS-02	2/20/2009	Primary	15	7	720	---	---	---	---	24.4JL	---	---	---	---	---	---	0.0003JL	0.0015J
OWS-02	8/11/2009	Primary	22	6.6	660	---	---	---	---	12.7JL	---	---	---	---	---	---	0.0001JL	0.0015JL
OWS-02	2/19/2010	Primary	12	6.8	842	---	---	---	---	42.0JL	---	---	---	---	---	---	0.0002JL	0.0006JL
OWS-02	8/18/2010	Primary	22	6.5	848	---	---	---	---	49.7JL	---	---	---	---	---	---	0.0003JL	0.0012J
OWS-02	2/3/2011	Primary	15	6.8	1114	---	---	---	---	116J	---	---	---	---	---	---	0.0003JL	0.0008J
OWS-02	8/30/2011	Primary	25	6.6	812	---	---	---	---	70.1J	---	---	---	---	---	---	0.00072JL	0.00047JL
OWS-03	8/17/1989	Primary	25	6.9	617	[500]	0.26	11	<0.10	73	19	130	0.046	16.29	[50.80]	[0.909]	---	<0.005
OWS-03	6/28/1990	Primary	25	6.6	625	367	<0.02	7	<0.10	8	3.6	435	0.039	16.1	[21.30]	[0.314]	---	<0.005
OWS-03	7/18/1991	Primary	21	6.6	541	311	<0.02	11	<0.10	8	1.7	63	0.042	18.61	[30.57]	[0.383]	---	<0.005
OWS-03	2/9/1993	Primary	15	6.5	340	242	<0.02	<1	<0.10	3	2.9	27	0.006	13.12	[27.71]	[4.914]	---	<0.005
OWS-03	8/3/1993	Primary	24	[6.3]	530	285	1.14	4	<0.10	8	6.6+	27	0.011	38.09	[8.330]	[0.096]	---	<0.005
OWS-03	2/8/1994	Primary	17	[6.1]	510	294	0.04	3	<0.10	7	2.8	18	0.014	14.21	[8.225]	[0.171]	---	<0.005
OWS-03	8/10/1994	Primary	25	[6.3]	520	333	<0.04	2	<0.10	16	2.7	33	0.016	16.1	[3.827]	[0.127]	---	<0.010
OWS-03	2/7/1995	Primary	10	6.5	370	309	0.16	7	0.34	17	2.1	<10	0.019	9.34	[8.275]	[0.177]	---	<0.010
OWS-03	8/7/1995	Primary	25	6.5	420	356	0.1	2	0.1	<5	2.3	24	0.014	11.29	[7.120]	[0.098]	---	<0.010
OWS-03	2/13/1996	Primary	14	6.5	390	278	<0.04	2	<0.10	12	2.4	<10	0.014	5.16	[0.891]	[0.065]	---	<0.010
OWS-03	8/1/1996	Primary	25	6.6	360	321	<0.04	4	<0.1	17	4.6	47	0.017	10.08	[41.52]	[2.422]	---	<0.01
OWS-03	2/6/1997	Primary	17	6.8	530	344	<0.04	10	<0.1	8	3.2	29	0.017	12.09	[29.75]	[0.146]	---	<0.01
OWS-03	8/15/1997	Primary	26	6.6	500	327	0.05	8	<0.1	29.3	3.4	28	0.018	8.27	[14.43]	[0.110]	---	<0.01
OWS-03	2/16/1998	Primary	13	[5.9]	260	335	0.3	7	<0.1	9.4	1	21	0.019	10.29	[66.300]	[0.307]	---	[0.011]
OWS-03	8/31/1998	Primary	28	6.5	320	239	0.15	7	<0.1	12.7	2.9	24	0.016	14.09	[35.77]	[0.114]	---	<0.01
OWS-03	2/10/1999	Primary	18	6.8	420	257	0.78	5	<0.1	9.7	<2.0	65	0.017	12.54	[40.27]	[0.173]	---	[0.015]
OWS-03	8/4/1999	Primary	23	6.7	520	350	<0.04	6	0.1	26.1	<2.0	37	0.024	8.14	[17.8]	[0.132]	---	<0.01
OWS-03	2/7/2000	Primary	15	6.6	360	247	0.7	5	<0.1	8	2.5	19	0.03	5.47	[10.399]	0.039	---	<0.01
OWS-03	8/17/2000	Primary	24	6.6	400	265	<0.04	11	<0.1	8.2	3.7	26	0.036	6.75	[24.340]	[0.686]	---	<0.01
OWS-03	2/1/2001	Primary	15	[6.4]	360	391	0.04	8	<0.1	21.3	3.2	82	0.034	10.24	[46.570]	[0.145]	---	<0.01
OWS-03	8/1/2001	Primary	23	[6.3]	440	271	<0.04	3	<0.1	11.8	<2	33	0.035	9.18	[38.89]	[0.127]	---	[0.023]
OWS-03	2/19/2002	Primary	18	[6]	670	---	---	---	---	101.2	---	---	---	---	---	---	<0.03	<0.01
OWS-03	8/27/2002	Primary	26	[5.4]	620	---	---	---	---	6.7	---	---	---	---	---	---	<0.03	<0.01

Table C-1
ILF General Chemistry and Metals Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Total Dissolved Solids Total (mg/L)	Nitrate (as N) Total (mg/L)	Chloride Total (mg/L)	Fluoride Total (mg/L)	Sulfate Total (mg/L)	Biochemical Oxygen Demand Total (mg/L)	Chemical Oxygen Demand Total (mg/L)	Total Organic Halogens Total (mg/L)	Total Organic Carbon Total (mg/L)	Iron Total (mg/L)	Manganese Total (mg/L)	Antimony Total (mg/L)	Arsenic Total (mg/L)
2L Groundwater Class GA Stds			---	6.5-8.5	---	500	10	250	2	250	---	---	---	---	0.3	0.05	---	0.01
NC-2L-GW IMAC			---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	---
NC-GWP Stds			---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	---
OWS-03	2/24/2003	Primary	17	[6.4]	907	---	---	---	---	32.2	---	---	---	---	---	---	<0.03	<0.01
OWS-03	8/26/2003	Primary	25	[6.3]	598	---	---	---	---	<5.0	---	---	---	---	---	---	<0.03	<0.01
OWS-03	2/2/2004	Primary	18	6.5	743	---	---	---	---	<5.0	---	---	---	---	---	---	<0.03	<0.01
OWS-03	8/19/2004	Primary	25	[6.4]	639	---	---	---	---	12	---	---	---	---	---	---	<0.03	<0.01
OWS-03	2/9/2005	Primary	19	[6.3]	889	---	---	---	---	<5.0	---	---	---	---	---	---	<0.03	<0.01
OWS-03	8/26/2005	Primary	26	[6.3]	902	---	---	---	---	7.7	---	---	---	---	---	---	<0.03	[0.011]
OWS-03	2/2/2006	Primary	19	[6.3]	937	---	---	---	---	<5.0	---	---	---	---	---	---	<0.03	<0.01
OWS-03	8/1/2006	Primary	25	[6.3]	805	---	---	---	---	27.1	---	---	---	---	---	---	<0.03	<0.01
OWS-03	2/22/2007	Primary	17	[6.2]	1049	---	---	---	---	<5.0	---	---	---	---	---	---	<0.006	<0.01
OWS-03	8/30/2007	Primary	24	[6.3]	785	---	---	---	---	13.9JL	---	---	---	---	---	---	<0.00005U	0.002JL
OWS-03	2/21/2008	Primary	14	[6.1]	693	---	---	---	---	30.8JL	---	---	---	---	---	---	<0.00008U	0.008J
OWS-03	8/5/2008	Primary	23	[6.3]	712	---	---	---	---	36.0JL	---	---	---	---	---	---	<0.00044U	0.0063J
OWS-03	2/20/2009	Primary	17	[6.3]	723	---	---	---	---	<5.0U	---	---	---	---	---	---	<0.00008U	0.0017J
OWS-03	8/11/2009	Primary	24	[6.3]	667	---	---	---	---	10.9JL	---	---	---	---	---	---	<0.00006U	0.0018J
OWS-03	2/19/2010	Primary	11	[6.4]	355	---	---	---	---	10.0JL	---	---	---	---	---	---	<0.00006U	0.0055J
OWS-03	8/18/2010	Primary	24	[6.2]	903	---	---	---	---	<5.0U	---	---	---	---	---	---	<0.00022U	0.0007J
OWS-03	2/3/2011	Primary	18	[6.4]	889	---	---	---	---	<5.0U	---	---	---	---	---	---	<0.00022U	0.0009J
OWS-03	8/30/2011	Primary	27	[6]	487	---	---	---	---	91.8J	---	---	---	---	---	---	0.00026JL	0.0028J

Table C-1
ILF General Chemistry and Metals Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Barium Total (mg/L)	Beryllium Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Cobalt Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Selenium Total (mg/L)	Silver Total (mg/L)	Thallium Total (mg/L)	Vanadium Total (mg/L)	Zinc Total (mg/L)
2L Groundwater Class GA Stds			0.7	---	0.002	0.01	---	1	0.015	0.001	0.1	0.02	0.02	---	---	1
NC-2L-GW IMAC			---	0.004	---	---	0.001	---	---	---	---	---	---	0.0002	0.0003	---
NC-GWP Stds			---	0.004	---	---	0.001	---	---	---	---	---	---	0.00028	0.0003	---
LC-01	8/17/1989	Primary	[2.268]	---	<0.005	<0.10	---	<0.010	0.012	<0.0002	---	<0.005	<0.005	---	---	0.015
LC-01	6/28/1990	Primary	[7.240]	---	<0.005	[0.082]	---	0.113	[0.066]	0.0002	---	<0.005	<0.005	---	---	0.505
LC-01	7/18/1991	Primary	<0.50	---	<0.005	<0.010	---	0.016	<0.005	<0.0002	---	<0.005	<0.005	---	---	<0.010
LC-01	2/9/1993	Primary	<0.050	---	<0.001	<0.005	---	0.25	<0.005	<0.0002	---	<0.005	<0.005	---	---	0.015
LC-01	8/3/1993	Primary	0.239	---	<0.001	<0.005	---	0.014	<0.005	<0.0002	---	<0.010	<0.005	---	---	<0.010
LC-01	2/8/1994	Primary	0.09	---	<0.001	<0.005	---	0.014	<0.005	<0.0002	---	<0.010	<0.005	---	---	<0.010
LC-01	8/10/1994	Primary	<0.50	---	<0.001	<0.010	---	<0.200	<0.010	<0.0002	---	<0.020	<0.010	---	---	<0.050
LC-01	2/7/1995	Primary	<0.50	---	<0.001	<0.010	---	<0.200	<0.010	<0.0002	---	<0.020	<0.010	---	---	<0.050
LC-01	8/7/1995	Primary	<0.50	---	<0.001	<0.010	---	<0.200	<0.010	<0.0005	---	<0.020	<0.010	---	---	<0.050
LC-01	2/13/1996	Primary	<0.50	---	<0.001	<0.010	---	<0.200	<0.010	<0.0005	---	<0.020	<0.010	---	---	<0.050
LC-01	2/6/1997	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.001	---	<0.02	<0.01	---	---	<0.05
LC-01	8/15/1997	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.001	---	<0.02	<0.01	---	---	<0.05
LC-01	2/16/1998	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.001	---	<0.02	<0.01	---	---	<0.05
LC-01	8/31/1998	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
LC-01	2/10/1999	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
LC-01	8/4/1999	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
LC-01	2/7/2000	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
LC-01	8/17/2000	Primary	<0.5	---	<0.001	[0.05]	---	<0.2	[0.016]	<0.0005	---	<0.02	<0.01	---	---	0.082
LC-01	2/1/2001	Primary	<0.5	---	<0.001	[0.01]	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
LC-01	2/19/2002	Primary	<0.5	<0.002	<0.001	[0.01]	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	[0.067]	<0.05
LC-01	8/27/2002	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
LC-01	2/24/2003	Primary	<0.5	<0.002	<0.001	[0.01]	<0.01	<0.2	<0.005	---	<0.05	<0.02	<0.01	<0.01	[0.053]	<0.05
LC-01	8/26/2003	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	[0.016]	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
LC-01	2/2/2004	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
LC-01	8/19/2004	Primary	<0.5	<0.002	<0.001	[0.012]	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	0.018
LC-01	2/9/2005	Primary	<0.5	<0.002	<0.001	[0.015]	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
LC-01	8/26/2005	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
LC-01	2/2/2006	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
LC-01	8/1/2006	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
LC-01	2/22/2007	Primary	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	---	<0.05	<0.01	<0.01	<0.005	<0.025	<0.01
LC-01	8/30/2007	Primary	0.0224J	<0.00008U	<0.00006U	0.0017JL	0.0008JL	0.005J	0.0003JL	---	0.0069J	0.0005JL	<0.00052U	<0.00007U	0.0128J	0.0065J
LC-01	2/21/2008	Primary	0.0189J	<0.00006U	<0.00004U	<0.00011U	0.0004J	0.0017J	0.0001JL	---	0.0058J	<0.00014U	<0.00004U	<0.00004U	0.0084J	0.0037J
LC-01	8/5/2008	Primary	0.031J	<0.00006U	<0.00005U	0.0006JL	0.0004J	0.0014J	0.0001JL	---	0.0056J	0.0003JL	<0.00004U	<0.00063U	0.0045J	0.0078J
LC-01	2/20/2009	Primary	0.038J	<0.00006U	<0.00004U	0.0013J	0.0012J	0.0046J	0.0004JL	---	0.0112J	0.0003JL	0.0001JL	<0.00004U	0.0173J	0.0074J
LC-01	8/11/2009	Primary	0.0466J	<0.00006U	<0.00004U	0.0015J	0.0009J	0.0035J	0.0004JL	---	0.0145J	0.0004JL	<0.00004U	<0.00003U	0.008J	0.0033J
LC-01	2/19/2010	Primary	0.0287J	<0.00006U	<0.00004U	0.0006JL	0.0007J	0.0021J	0.0001JL	---	0.0059J	<0.00012U	<0.00004U	<0.00003U	0.0051J	0.0021J
LC-01	8/18/2010	Primary	0.0843J	0.0001JL	<0.00002U	0.0032J	0.0012J	0.0057J	0.0016J	---	0.0131J	0.0005JL	0.0001JL	<0.00005U	0.0126J	0.015

Table C-1
ILF General Chemistry and Metals Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Barium Total (mg/L)	Beryllium Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Cobalt Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Selenium Total (mg/L)	Silver Total (mg/L)	Thallium Total (mg/L)	Vanadium Total (mg/L)	Zinc Total (mg/L)
2L Groundwater Class GA Stds			0.7	---	0.002	0.01	---	1	0.015	0.001	0.1	0.02	0.02	---	---	1
NC-2L-GW IMAC			---	0.004	---	---	0.001	---	---	---	---	---	---	0.0002	0.0003	---
NC-GWP Stds			---	0.004	---	---	0.001	---	---	---	---	---	---	0.00028	0.0003	---
LC-01	2/3/2011	Primary	0.0355J	<0.00002U	<0.00002U	0.0009J	0.0008JL	0.0029J	0.0001JL	---	0.0078J	<0.00032U	<0.00003U	<0.00005U	0.0083J	0.0034J
LC-01	8/30/2011	Primary	0.0239J	<0.00002U	<0.00002U	0.00034JL	0.00029JL	0.0023J	0.00011JL	---	0.0023J	0.00027JL	<0.00002U	<0.00002U	0.0027J	0.019
OWD-01	8/17/1989	Primary	[2.408]	---	<0.005	[0.079]	---	0.019	[0.017]	<0.0002	---	<0.005	<0.005	---	---	0.078
OWD-01	6/28/1990	Primary	[3.012]	---	<0.005	[0.072]	---	0.3	<0.005	<0.0002	---	<0.005	<0.005	---	---	0.109
OWD-01	7/18/1991	Primary	0.172	---	<0.005	<0.010	---	0.075	<0.005	<0.0002	---	<0.005	<0.005	---	---	0.012
OWD-01	2/9/1993	Primary	0.167	---	<0.005	0.006	---	0.032	<0.005	<0.0002	---	<0.005	<0.005	---	---	<0.010
OWD-01	8/3/1993	Primary	0.238	---	<0.001	<0.005	---	0.019	<0.005	<0.0002	---	<0.010	<0.005	---	---	<0.010
OWD-01	2/8/1994	Primary	0.2	---	<0.001	<0.005	---	0.021	<0.005	<0.0002	---	<0.010	<0.005	---	---	<0.010
OWD-01	8/10/1994	Primary	<0.50	---	<0.001	<0.010	---	<0.200	<0.010	<0.0002	---	<0.020	<0.010	---	---	<0.050
OWD-01	2/7/1995	Primary	<0.50	---	<0.001	<0.010	---	<0.200	<0.010	<0.0002	---	<0.020	<0.010	---	---	<0.050
OWD-01	8/7/1995	Primary	<0.50	---	[0.003]	<0.010	---	<0.200	<0.010	<0.0005	---	<0.020	<0.010	---	---	<0.050
OWD-01	2/13/1996	Primary	<0.50	---	<0.001	<0.010	---	<0.200	<0.010	<0.0005	---	<0.020	<0.010	---	---	<0.050
OWD-01	8/1/1996	Primary	<0.5	---	<0.001	<0.01	---	<0.2	[0.018]	<0.001	---	<0.02	<0.01	---	---	<0.05
OWD-01	2/6/1997	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.001	---	<0.02	<0.01	---	---	<0.05
OWD-01	8/15/1997	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.001	---	<0.02	<0.01	---	---	<0.05
OWD-01	2/16/1998	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.001	---	<0.02	<0.01	---	---	<0.05
OWD-01	8/31/1998	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWD-01	2/10/1999	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWD-01	8/4/1999	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWD-01	2/7/2000	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWD-01	8/17/2000	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWD-01	2/1/2001	Primary	<0.5	---	<0.001	[0.011]	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWD-01	8/1/2001	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWD-01	2/19/2002	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWD-01	8/27/2002	Primary	<0.5	<0.002	<0.001	<0.005	[0.034]	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWD-01	2/24/2003	Primary	<0.5	<0.002	<0.001	<0.01	[0.031]	<0.2	<0.005	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWD-01	8/26/2003	Primary	<0.5	<0.002	<0.001	<0.01	[0.033]	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWD-01	2/2/2004	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWD-01	8/19/2004	Primary	<0.5	<0.002	<0.001	[0.012]	[0.033]	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWD-01	2/9/2005	Primary	<0.5	<0.002	<0.001	<0.01	[0.027]	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWD-01	8/26/2005	Primary	<0.5	<0.002	<0.001	<0.01	[0.024]	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWD-01	2/2/2006	Primary	<0.5	<0.002	<0.001	<0.01	[0.022]	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWD-01	8/1/2006	Primary	<0.5	<0.002	<0.001	<0.01	[0.025]	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWD-01	2/22/2007	Primary	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	---	<0.05	<0.01	<0.01	<0.005	<0.025	<0.01
OWD-01	8/30/2007	Primary	0.108	<0.00008U	0.0001JL	<0.00024U	[0.026]	<0.0002U	<0.00007U	---	0.0065JL	<0.00035U	<0.00052U	0.0008J	<0.00042U	0.0019JL
OWD-01	2/21/2008	Primary	0.0784J	<0.00006U	0.0001JL	<0.00011U	0.0087J	0.0004JL	0.0003JL	---	0.0052J	<0.00014U	<0.00004U	0.0005J	0.0011J	0.0034J
OWD-01	8/5/2008	Primary	0.102	<0.00006U	0.0001JL	<0.00011U	[0.019]	0.0006J	0.0001JL	---	0.0066J	0.0002JL	0.0002JL	0.0007JL	0.0006JL	0.0073J

Table C-1
ILF General Chemistry and Metals Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Barium Total (mg/L)	Beryllium Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Cobalt Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Selenium Total (mg/L)	Silver Total (mg/L)	Thallium Total (mg/L)	Vanadium Total (mg/L)	Zinc Total (mg/L)
2L Groundwater Class GA Stds			0.7	---	0.002	0.01	---	1	0.015	0.001	0.1	0.02	0.02	---	---	1
NC-2L-GW IMAC			---	0.004	---	---	0.001	---	---	---	---	---	---	0.0002	0.0003	---
NC-GWP Stds			---	0.004	---	---	0.001	---	---	---	---	---	---	0.00028	0.0003	---
OWD-01	2/20/2009	Primary	0.0791J	<0.00006U	<0.00004U	<0.00011U	0.0097J	0.0006J	0.0001JL	---	0.0046J	<0.00014U	0.0001JL	0.0005J	0.0003JL	0.0025J
OWD-01	8/11/2009	Primary	0.104	<0.00006U	0.0001JL	<0.0001U	[0.02]	0.0006J	0.0001JL	---	0.0084J	0.0002JL	0.0001JL	0.0008J	<0.00028U	0.0024J
OWD-01	2/19/2010	Primary	0.0598J	<0.00006U	<0.00004U	0.0001JL	0.0078J	0.0004JL	0.0001JL	---	0.0037J	<0.00012U	0.0002JL	0.0003JL	0.0005JL	0.0018J
OWD-01	8/18/2010	Primary	0.0875J	<0.00002U	<0.00002U	<0.00003U	[0.017]	0.0002JL	0.0001JL	---	0.0061J	<0.00032U	<0.00003U	0.0006J	0.0006J	0.0016J
OWD-01	2/3/2011	Primary	0.0545J	<0.00002U	<0.00002U	<0.00003U	0.0062J	0.0008J	<0.00001U	---	0.0033J	<0.00032U	<0.00003U	0.0004JL	0.0006J	0.0013J
OWD-01	8/30/2011	Primary	0.0889J	<0.00002U	<0.00002U	<0.00004U	[0.016]	0.0002JL	<0.00002U	---	0.0053J	<0.00020U	<0.00002U	0.00064J	0.00038JL	0.0013JL
OWS-01	8/17/1989	Primary	[1.368]	---	<0.005	[0.011]	---	0.082	[0.056]	0.0005	---	<0.005	<0.005	---	---	0.27
OWS-01	6/28/1990	Primary	0.534	---	<0.001	[0.017]	---	0.028	[0.016]	<0.0002	---	<0.005	<0.005	---	---	0.05
OWS-01	7/18/1991	Primary	0.27	---	<0.005	[0.093]	---	0.043	0.013	<0.0002	---	<0.005	<0.005	---	---	0.127
OWS-01	2/9/1993	Primary	0.075	---	<0.001	[0.020]	---	0.029	<0.005	<0.0002	---	<0.005	<0.005	---	---	0.036
OWS-01	8/3/1993	Primary	0.224	---	<0.001	[0.015]	---	0.024	<0.005	<0.0002	---	<0.010	<0.005	---	---	0.033
OWS-01	2/8/1994	Primary	0.162	---	<0.001	[0.048]	---	0.056	[0.026]	<0.0002	---	<0.010	<0.005	---	---	0.091
OWS-01	8/10/1994	Primary	<0.50	---	<0.001	[0.027]	---	<0.200	0.013	0.0003	---	<0.020	<0.010	---	---	<0.050
OWS-01	2/7/1995	Primary	<0.50	---	<0.001	[0.016]	---	<0.200	0.011	<0.0002	---	<0.020	<0.010	---	---	<0.050
OWS-01	8/7/1995	Primary	<0.50	---	<0.001	[0.023]	---	<0.200	<0.010	<0.0005	---	<0.020	<0.010	---	---	<0.050
OWS-01	2/13/1996	Primary	<0.50	---	<0.001	<0.010	---	<0.200	<0.010	<0.0005	---	<0.020	<0.010	---	---	<0.050
OWS-01	8/1/1996	Primary	<0.5	---	<0.001	[0.025]	---	<0.2	0.011	<0.001	---	<0.02	<0.01	---	---	<0.05
OWS-01	2/6/1997	Primary	<0.5	---	<0.001	[0.014]	---	<0.2	0.011	<0.001	---	<0.02	<0.01	---	---	<0.05
OWS-01	8/15/1997	Primary	<0.5	---	<0.001	[0.01]	---	<0.2	<0.01	<0.001	---	<0.02	<0.01	---	---	<0.05
OWS-01	2/16/1998	Primary	0.525	---	<0.001	<0.01	---	<0.2	<0.01	<0.001	---	<0.02	<0.01	---	---	<0.05
OWS-01	8/31/1998	Primary	<0.5	---	<0.001	[0.01]	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWS-01	2/10/1999	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWS-01	8/4/1999	Primary	<0.5	---	<0.001	[0.017]	---	<0.2	0.011	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWS-01	2/7/2000	Primary	<0.5	---	<0.001	[0.018]	---	<0.2	<0.01	0.0008	---	<0.02	<0.01	---	---	<0.05
OWS-01	8/17/2000	Primary	<0.5	---	<0.001	[0.018]	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWS-01	2/1/2001	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWS-01	8/1/2001	Primary	<0.5	---	<0.001	[0.031]	---	<0.2	0.012	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWS-01	2/19/2002	Primary	<0.5	<0.002	<0.001	[0.012]	[0.012]	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-01	8/27/2002	Primary	<0.5	<0.002	<0.001	[0.015]	[0.023]	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-01	2/24/2003	Primary	<0.5	<0.002	<0.001	[0.096]	[0.067]	<0.2	[0.066]	---	<0.05	<0.02	<0.01	<0.01	[0.177]	0.227
OWS-01	8/26/2003	Primary	<0.5	<0.002	<0.001	[0.039]	[0.018]	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	[0.526]	0.069
OWS-01	2/2/2004	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-01	8/19/2004	Primary	<0.5	<0.002	<0.001	[0.037]	[0.018]	<0.2	[0.035]	---	<0.05	<0.02	<0.01	<0.01	[0.057]	0.082
OWS-01	2/9/2005	Primary	<0.5	<0.002	<0.001	[0.053]	[0.028]	<0.2	[0.023]	---	<0.05	<0.02	<0.01	<0.01	[0.084]	0.102
OWS-01	8/26/2005	Primary	<0.5	<0.002	<0.001	[0.013]	<0.01	<0.2	[0.021]	---	<0.05	<0.02	<0.01	<0.01	<0.04	0.055
OWS-01	2/2/2006	Primary	<0.5	<0.002	<0.001	[0.014]	<0.01	<0.2	[0.016]	---	<0.05	<0.02	<0.01	<0.01	<0.04	0.051
OWS-01	8/1/2006	Primary	<0.5	<0.002	<0.001	<0.01	[0.017]	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05

Table C-1
ILF General Chemistry and Metals Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Barium Total (mg/L)	Beryllium Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Cobalt Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Selenium Total (mg/L)	Silver Total (mg/L)	Thallium Total (mg/L)	Vanadium Total (mg/L)	Zinc Total (mg/L)
2L Groundwater Class GA Stds			0.7	---	0.002	0.01	---	1	0.015	0.001	0.1	0.02	0.02	---	---	1
NC-2L-GW IMAC			---	0.004	---	---	0.001	---	---	---	---	---	---	0.0002	0.0003	---
NC-GWP Stds			---	0.004	---	---	0.001	---	---	---	---	---	---	0.00028	0.0003	---
OWS-01	2/22/2007	Primary	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	---	<0.05	<0.01	<0.01	<0.005	<0.025	<0.01
OWS-01	8/30/2007	Primary	0.136	<0.00008U	0.0002JL	0.0009JL	0.001JL	0.0008JL	0.0004JL	---	0.0031JL	0.0005JL	<0.00052U	<0.00007U	0.0103J	0.0034J
OWS-01	2/21/2008	Primary	0.0366J	0.0001JL	0.0001JL	0.0018J	0.003J	0.001J	0.0007J	---	0.0018J	<0.00014U	<0.00004U	0.0001JL	0.0079J	0.0037J
OWS-01	8/5/2008	Primary	0.0398J	<0.00006U	0.0001JL	0.0013J	0.0033J	0.0008J	0.0003JL	---	0.0015J	<0.00051U	<0.00004U	0.0001JL	0.0048J	0.0056J
OWS-01	2/20/2009	Primary	0.0397J	<0.00006U	0.0001JL	0.001JL	0.004J	0.0004J	0.0002JL	---	0.0014J	0.0002JL	0.0001JL	<0.00004U	0.0046J	0.003J
OWS-01	8/11/2009	Primary	0.0509J	<0.00006U	0.0001JL	0.0015J	0.0053J	0.0007J	0.0002JL	---	0.0043J	0.0002JL	<0.00004U	<0.00003U	0.0055J	0.0031J
OWS-01	2/19/2010	Primary	0.0432J	<0.00006U	<0.00004U	0.0007JL	0.006J	0.0003JL	0.0002JL	---	0.0013J	<0.00012U	0.0001JL	<0.00003U	0.004J	0.0024J
OWS-01	8/18/2010	Primary	0.0427J	0.0001JL	0.0002JL	0.0013J	0.0047J	0.0003JL	0.0002J	---	0.0016J	<0.00032U	0.0001JL	0.0003JL	0.0053J	0.0026J
OWS-01	2/3/2011	Primary	0.0364J	0.0001JL	0.0001JL	0.001J	0.0041J	0.0005J	0.0001JL	---	0.012J	<0.00032U	<0.00003U	<0.00005U	0.0052J	0.0059J
OWS-01	8/30/2011	Primary	0.0491J	0.00008JL	0.00009JL	0.0016J	0.0085J	0.00092J	0.0003J	---	0.0014J	<0.00020U	0.00004JL	0.00009JL	0.0059J	0.0027J
OWS-02	8/17/1989	Primary	[0.792]	---	<0.005	<0.10	---	0.015	0.01	<0.0002	---	<0.005	<0.005	---	---	0.044
OWS-02	6/28/1990	Primary	[1.452]	---	<0.005	[0.019]	---	0.2	<0.005	<0.0002	---	<0.005	<0.005	---	---	0.047
OWS-02	7/18/1991	Primary	0.269	---	<0.005	[0.061]	---	0.036	[0.020]	<0.0002	---	<0.005	<0.005	---	---	0.068
OWS-02	2/9/1993	Primary	0.21	---	<0.001	[0.077]	---	0.048	[0.026]	0.0002	---	<0.005	<0.005	---	---	0.064
OWS-02	8/3/1993	Primary	0.326	---	<0.001	<0.005	---	0.019	<0.005	<0.0002	---	<0.010	<0.005	---	---	0.011
OWS-02	2/8/1994	Primary	0.155	---	<0.001	[0.015]	---	0.025	<0.005	<0.0002	---	<0.010	<0.005	---	---	0.014
OWS-02	8/10/1994	Primary	<0.50	---	<0.001	<0.010	---	<0.200	<0.010	<0.0002	---	<0.020	<0.010	---	---	<0.050
OWS-02	2/7/1995	Primary	<0.50	---	<0.001	<0.010	---	<0.200	<0.010	<0.0002	---	<0.020	<0.010	---	---	<0.050
OWS-02	8/7/1995	Primary	<0.50	---	<0.001	<0.010	---	<0.200	<0.010	<0.0005	---	<0.020	<0.010	---	---	<0.050
OWS-02	2/13/1996	Primary	<0.50	---	<0.001	<0.010	---	<0.200	<0.010	<0.0005	---	<0.020	<0.010	---	---	<0.050
OWS-02	8/1/1996	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.001	---	<0.02	<0.01	---	---	<0.05
OWS-02	2/6/1997	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.001	---	<0.02	<0.01	---	---	<0.05
OWS-02	8/15/1997	Primary	0.661	---	<0.001	<0.01	---	<0.2	<0.01	<0.001	---	<0.02	<0.01	---	---	<0.05
OWS-02	2/16/1998	Primary	<0.5	---	<0.001	<0.01	---	<0.2	0.014	<0.001	---	<0.02	<0.01	---	---	0.054
OWS-02	8/31/1998	Primary	0.65	---	<0.001	<0.01	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWS-02	2/10/1999	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWS-02	8/4/1999	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWS-02	2/7/2000	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWS-02	8/17/2000	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWS-02	2/1/2001	Primary	<0.5	---	<0.001	[0.059]	---	<0.2	[0.024]	<0.0005	---	<0.02	<0.01	---	---	0.119
OWS-02	8/1/2001	Primary	<0.5	---	<0.001	[0.02]	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWS-02	2/19/2002	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-02	8/27/2002	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-02	2/24/2003	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.005	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-02	8/26/2003	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-02	2/2/2004	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-02	8/19/2004	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05

Table C-1
ILF General Chemistry and Metals Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Barium Total (mg/L)	Beryllium Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Cobalt Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Selenium Total (mg/L)	Silver Total (mg/L)	Thallium Total (mg/L)	Vanadium Total (mg/L)	Zinc Total (mg/L)
2L Groundwater Class GA Stds			0.7	---	0.002	0.01	---	1	0.015	0.001	0.1	0.02	0.02	---	---	1
NC-2L-GW IMAC			---	0.004	---	---	0.001	---	---	---	---	---	---	0.0002	0.0003	---
NC-GWP Stds			---	0.004	---	---	0.001	---	---	---	---	---	---	0.00028	0.0003	---
OWS-02	2/9/2005	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-02	8/26/2005	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-02	2/2/2006	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	[0.113]	<0.05
OWS-02	8/1/2006	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-02	2/22/2007	Primary	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	---	<0.05	<0.01	<0.01	[0.028]	<0.025	<0.01
OWS-02	8/30/2007	Primary	0.0449J	<0.00008U	0.0001JL	0.0014JL	0.0076J	0.0023J	0.0002JL	---	0.0015JL	<0.00035U	<0.00052U	<0.00007U	0.0049J	0.0027J
OWS-02	2/21/2008	Primary	0.115	<0.00006U	0.0001JL	0.0002JL	0.0005J	0.0019J	0.0003JL	---	0.0079J	<0.00014U	0.0001JL	<0.00004U	0.023J	0.0036J
OWS-02	8/5/2008	Primary	0.132	<0.00006U	0.0002JL	0.0003JL	0.0004J	0.0011J	0.0002JL	---	0.0051J	0.0003JL	<0.00004U	<0.00063U	0.0084J	0.0053J
OWS-02	2/20/2009	Primary	0.0933J	<0.00006U	0.0001JL	0.0027J	0.0007J	0.0019J	0.0016J	---	0.0054J	0.0003JL	0.0001JL	<0.00004U	[0.034]	0.0083J
OWS-02	8/11/2009	Primary	0.135	<0.00006U	0.0002JL	0.0008JL	0.0007J	0.0011J	0.0005J	---	0.0048J	0.0003JL	<0.00004U	<0.00003U	0.0141J	0.0045J
OWS-02	2/19/2010	Primary	0.0682J	<0.00006U	<0.00004U	0.0008JL	0.0003J	0.0008J	0.0004JL	---	0.0039J	<0.00012U	0.0001JL	<0.00003U	0.0155J	0.0025J
OWS-02	8/18/2010	Primary	0.179	0.0001JL	0.0005J	0.0017J	0.0032J	0.0005J	0.0006J	---	0.0115J	0.0003JL	0.0001JL	0.0001JL	0.0046J	0.0057J
OWS-02	2/3/2011	Primary	0.0778J	0.0001JL	0.0001JL	0.0008J	0.0004JL	0.0015J	0.0005J	---	0.0045J	<0.00032U	<0.00003U	<0.00005U	0.0142J	0.0030J
OWS-02	8/30/2011	Primary	0.108	<0.00002U	0.00027J	0.00052J	0.00036J	0.0021J	0.00015JL	---	0.0036J	0.00047JL	0.00004JL	0.00007JL	0.0192J	0.0031J
OWS-03	8/17/1989	Primary	[1.280]	---	<0.005	[0.047]	---	0.021	[0.015]	<0.0002	---	<0.005	<0.005	---	---	0.032
OWS-03	6/28/1990	Primary	[2.284]	---	<0.005	[0.011]	---	0.015	0.005	<0.0002	---	<0.005	<0.005	---	---	0.102
OWS-03	7/18/1991	Primary	0.148	---	<0.005	[0.013]	---	0.011	<0.005	<0.0002	---	<0.005	<0.005	---	---	<0.010
OWS-03	2/9/1993	Primary	0.068	---	<0.001	0.009	---	0.018	<0.005	<0.0002	---	<0.005	<0.005	---	---	<0.010
OWS-03	8/3/1993	Primary	0.15	---	<0.001	<0.005	---	0.018	<0.005	<0.0002	---	<0.010	<0.005	---	---	0.032
OWS-03	2/8/1994	Primary	0.089	---	<0.001	0.006	---	0.018	<0.005	<0.0002	---	<0.010	<0.005	---	---	<0.010
OWS-03	8/10/1994	Primary	<0.50	---	<0.001	<0.010	---	<0.200	<0.010	<0.0002	---	<0.020	<0.010	---	---	<0.050
OWS-03	2/7/1995	Primary	<0.50	---	<0.001	<0.010	---	<0.200	<0.010	<0.0002	---	<0.020	<0.010	---	---	<0.050
OWS-03	8/7/1995	Primary	<0.50	---	<0.001	<0.010	---	<0.200	<0.010	<0.0005	---	<0.020	<0.010	---	---	<0.050
OWS-03	2/13/1996	Primary	<0.50	---	<0.001	<0.010	---	<0.200	<0.010	<0.0005	---	<0.020	<0.010	---	---	<0.050
OWS-03	8/1/1996	Primary	<0.5	---	<0.001	<0.01	---	<0.2	<0.01	<0.001	---	<0.02	<0.01	---	---	<0.05
OWS-03	2/6/1997	Primary	<0.5	---	<0.001	[0.024]	---	<0.2	<0.01	<0.001	---	<0.02	<0.01	---	---	<0.05
OWS-03	8/15/1997	Primary	0.695	---	<0.001	<0.01	---	<0.2	<0.01	<0.001	---	<0.02	<0.01	---	---	<0.05
OWS-03	2/16/1998	Primary	<0.5	---	<0.001	[0.039]	---	<0.2	0.014	<0.001	---	<0.02	<0.01	---	---	0.063
OWS-03	8/31/1998	Primary	<0.5	---	<0.001	[0.062]	---	<0.2	[0.018]	<0.0005	---	<0.02	<0.01	---	---	0.065
OWS-03	2/10/1999	Primary	<0.5	---	<0.001	[0.012]	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWS-03	8/4/1999	Primary	<0.5	---	<0.001	[0.014]	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWS-03	2/7/2000	Primary	<0.5	---	<0.001	[0.027]	---	<0.2	0.011	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWS-03	8/17/2000	Primary	<0.5	---	<0.001	[0.039]	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWS-03	2/1/2001	Primary	<0.5	---	<0.001	[0.113]	---	<0.2	[0.038]	<0.0005	---	<0.02	<0.01	---	---	0.113
OWS-03	8/1/2001	Primary	<0.5	---	<0.001	[0.076]	---	<0.2	<0.01	<0.0005	---	<0.02	<0.01	---	---	<0.05
OWS-03	2/19/2002	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-03	8/27/2002	Primary	<0.5	<0.002	<0.001	<0.005	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05

Table C-1
ILF General Chemistry and Metals Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Barium Total (mg/L)	Beryllium Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Cobalt Total (mg/L)	Copper Total (mg/L)	Lead Total (mg/L)	Mercury Total (mg/L)	Nickel Total (mg/L)	Selenium Total (mg/L)	Silver Total (mg/L)	Thallium Total (mg/L)	Vanadium Total (mg/L)	Zinc Total (mg/L)
2L Groundwater Class GA Stds			0.7	---	0.002	0.01	---	1	0.015	0.001	0.1	0.02	0.02	---	---	1
NC-2L-GW IMAC			---	0.004	---	---	0.001	---	---	---	---	---	---	0.0002	0.0003	---
NC-GWP Stds			---	0.004	---	---	0.001	---	---	---	---	---	---	0.00028	0.0003	---
OWS-03	2/24/2003	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	0.049	<0.005	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-03	8/26/2003	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-03	2/2/2004	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-03	8/19/2004	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-03	2/9/2005	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-03	8/26/2005	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-03	2/2/2006	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-03	8/1/2006	Primary	<0.5	<0.002	<0.001	<0.01	<0.01	<0.2	<0.01	---	<0.05	<0.02	<0.01	<0.01	<0.04	<0.05
OWS-03	2/22/2007	Primary	<0.1	<0.001	<0.001	<0.01	<0.01	<0.01	<0.01	---	<0.05	<0.01	<0.01	<0.005	<0.025	<0.01
OWS-03	8/30/2007	Primary	0.0801J	<0.00008U	0.0001JL	<0.00024U	<0.00041U	<0.0002U	<0.00007U	---	0.0021JL	<0.00035U	<0.00052U	<0.00007U	0.0017JL	0.0005JL
OWS-03	2/21/2008	Primary	0.0705J	<0.00006U	0.0001JL	<0.00011U	0.0039J	0.0041J	0.0002JL	---	0.0035J	<0.00014U	0.0001JL	<0.00004U	0.0032J	0.0034J
OWS-03	8/5/2008	Primary	0.09J	<0.00006U	0.0001JL	0.0004JL	0.0013J	0.0006J	0.0001JL	---	0.0027J	<0.00051U	<0.00004U	<0.00063U	0.0021J	0.0056J
OWS-03	2/20/2009	Primary	0.0723J	<0.00006U	0.0001JL	0.0004JL	0.0008J	0.0008J	0.0002JL	---	0.0031J	<0.00014U	<0.00004U	<0.00004U	0.0024J	0.0035J
OWS-03	8/11/2009	Primary	0.0681J	<0.00006U	0.0001JL	0.0001JL	0.0003J	0.0005J	0.0001JL	---	0.0046J	<0.00012U	<0.00004U	<0.00003U	0.0014JL	0.0011JL
OWS-03	2/19/2010	Primary	0.0922J	<0.00006U	0.0001JL	0.0005JL	0.0013J	0.0016J	0.0003JL	---	0.0028J	<0.00012U	0.0001JL	<0.00003U	0.0032J	0.0021J
OWS-03	8/18/2010	Primary	0.1	<0.00002U	0.0001JL	0.0005J	0.0004JL	0.0003JL	0.0002J	---	0.0038J	0.0006JL	<0.00003U	<0.00005U	0.002J	0.0014J
OWS-03	2/3/2011	Primary	0.0793J	<0.00002U	0.0001JL	0.0002JL	0.0004JL	0.0007J	0.0001JL	---	0.0023J	0.0004JL	0.001J	<0.00005U	0.0014J	0.0005J
OWS-03	8/30/2011	Primary	0.0911J	<0.00002U	0.00011JL	0.00025JL	0.00068J	0.0021J	0.00007JL	---	0.0013J	<0.00020U	<0.00002U	0.00008JL	0.0018J	0.0015JL

Table C- 2
Statistics Summary--ILF General Chemistry and Metals
Weyerhaeuser New Bern Cellulose Fibers Mill

Site	Sample Dates: 8/17/1989 to 8/30/2011	Temperature; Field (°C)	pH; Field (units)	Specific Conductance; Field (uS/cm)	Total Dissolved Solids; Total (mg/L)	Nitrate (as N); Total (mg/L)	Chloride; Total (mg/L)	Fluoride; Total (mg/L)	Sulfate; Total (mg/L)	Biochemical Oxygen Demand; Total (mg/L)	Chemical Oxygen Demand; Total (mg/L)	Total Organic Halogens; Total (mg/L)	Total Organic Carbon; Total (mg/L)	Iron; Total (mg/L)	Manganese; Total (mg/L)	Antimony; Total (mg/L)	Arsenic; Total (mg/L)	Barium; Total (mg/L)	Beryllium; Total (mg/L)	Cadmium; Total (mg/L)
15A NCAC 02LGroundwaterClass GA		---	6.5-8.5	---	500	10	250	2	250	---	---	---	---	0.3	0.05	---	0.01	0.7	---	0.002
NC-2L-GW IMAC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	---	---	0.004	---
NC-GWP Stds		---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	---	---	0.004	---
LC-01	Count	39	39	39	19	19	19	19	39	19	19	19	19	19	19	20	39	39	20	39
LC-01	Maximum	35	8.5	3770	2183	0.37	140	0.52	414.6	115	313	0.169	303	39.9	1.6	0.03	0.066	7.24	0.002	0.005
LC-01	Minimum	2	5.9	110	110	0.02	8	0.037	5	1	26	0.022	16.32	0.749	0.031	0.00006	0.0006	0.0189	0.00002	0.00002
LC-01	Average	18.8	7.70	1612	1016	0.063	55.9	0.18	73.6	22.0	149	0.045	52.8	5.58	0.25	0.015	0.0090	0.57	0.0011	0.0011
LC-01	Std Dev	10.0	0.60	772	405	0.079	33.1	0.12	74.0	25.9	89	0.032	62.4	10.43	0.34	0.015	0.0101	1.16	0.0010	0.0012
LC-01	CV	0.5	0.1	0.5	0.4	1.3	0.6	0.7	1.0	1.2	0.6	0.7	1.2	1.9	1.4	1.0	1.1	2.0	0.9	1.1
LC-01	CI about Mean	0.1	0.01	8	6	0.001	0.5	0.00	0.7	0.4	1	0.000	0.9	0.15	0.00	0.000	0.0001	0.01	0.0000	0.0000
LC-01	25th Percentile	10.0	7.50	1125	890	0.030	33.5	0.10	32.6	9.3	85	0.029	29.9	1.62	0.10	0.000	0.0050	0.09	0.0001	0.0010
LC-01	Median	23.0	7.90	1500	1060	0.040	54.0	0.12	59.0	14.0	102	0.038	35.0	2.40	0.19	0.018	0.0100	0.50	0.0015	0.0010
LC-01	75th Percentile	28.0	8.10	1878	1165	0.055	68.5	0.22	80.0	23.5	229	0.046	50.6	3.45	0.21	0.030	0.0100	0.50	0.0020	0.0010
LC-01	IQR	18.0	0.60	753	276	0.025	35.0	0.12	47.4	14.2	144	0.018	20.7	1.83	0.11	0.030	0.0050	0.41	0.0019	0.0000
LC-01	%ND	0%	0%	0%	0%	63%	0%	26%	10%	16%	0%	0%	0%	0%	0%	65%	69%	67%	95%	100%
LC-01	%> Guidance Level		5%		95%				3%					100%	89%		5%	5%		
OWD-01	Count	41	41	41	21	21	21	21	41	21	21	21	21	21	21	20	41	41	20	41
OWD-01	Maximum	25	7.6	943	568	0.1	23	0.36	125.6	11	205	0.031	17.07	63.3	5.035	0.03	0.016	3.012	0.002	0.005
OWD-01	Minimum	11	5.9	632	392	0.02	10	0.015	14.1	1.2	20	0.012	8.5	0.76	0.143	0.00005	0.0026	0.0545	0.00002	0.00002
OWD-01	Average	18.8	6.64	783	483	0.038	15.7	0.12	33.7	3.79	43.5	0.019	10.94	26.4	2.61	0.015	0.0093	0.48	0.0011	0.0012
OWD-01	Std Dev	2.8	0.26	79	46	0.017	3.0	0.07	19.1	2.42	37.8	0.005	2.18	11.4	1.47	0.015	0.0034	0.55	0.0010	0.0014
OWD-01	CV	0.2	0.0	0.1	0.1	0.4	0.2	0.6	0.6	0.6	0.9	0.2	0.2	0.4	0.6	1.0	0.4	1.1	0.9	1.1
OWD-01	CI about Mean	0.0	0.00	1	1	0.000	0.0	0.00	0.2	0.03	0.5	0.000	0.03	0.2	0.02	0.000	0.0000	0.01	0.0000	0.0000
OWD-01	25th Percentile	17.0	6.60	738	463	0.040	14.0	0.10	21.1	2.00	31.0	0.016	9.64	23.1	1.94	0.000	0.0070	0.17	0.0001	0.0010
OWD-01	Median	19.0	6.70	767	479	0.040	16.0	0.10	30.0	3.30	37.0	0.018	10.16	25.0	2.25	0.018	0.0100	0.50	0.0015	0.0010
OWD-01	75th Percentile	20.0	6.70	824	516	0.040	17.0	0.10	37.7	5.20	40.0	0.020	11.78	29.8	3.65	0.030	0.0110	0.50	0.0020	0.0010
OWD-01	IQR	3.0	0.10	86	53	0.000	3.0	0.00	16.6	3.20	9.0	0.004	2.14	6.7	1.72	0.030	0.0040	0.33	0.0019	0.0000
OWD-01	%ND	0%	0%	0%	0%	90%	0%	62%	0%	5%	0%	0%	0%	0%	0%	90%	32%	63%	100%	88%
OWD-01	%> Guidance Level		24%		33%									100%	100%		37%	5%		2%
OWS-01	Count	41	41	41	21	21	21	21	41	21	21	21	21	21	21	20	41	41	20	41
OWS-01	Maximum	25	6.7	1500	767	1.12	23	0.3	160.3	8.9	197	0.045	28.27	177	1.506	0.03	0.019	1.368	0.002	0.005
OWS-01	Minimum	8	4.6	190	133	0.02	5	0.1	1	1.3	22	0.016	11.9	14.28	0.01	0.00005	0.0014	0.0364	0.00006	0.00004
OWS-01	Average	18.0	6.27	378	272	0.13	13.38	0.12	17.0	3.74	58.1	0.026	19.2	46.2	0.69	0.015	0.0079	0.38	0.0011	0.0010
OWS-01	Std Dev	5.4	0.32	266	150	0.29	4.39	0.05	33.3	2.01	37.9	0.008	4.1	37.0	0.38	0.015	0.0036	0.25	0.0010	0.0010
OWS-01	CV	0.3	0.1	0.7	0.6	2.3	0.3	0.4	2.0	0.5	0.7	0.3	0.2	0.8	0.5	1.0	0.5	0.7	0.9	1.0
OWS-01	CI about Mean	0.1	0.00	3	2	0.00	0.06	0.00	0.3	0.03	0.5	0.000	0.1	0.5	0.01	0.000	0.0000	0.00	0.0000	0.0000
OWS-01	25th Percentile	13.0	6.20	242	195	0.03	10.00	0.10	5.0	2.50	41.0	0.020	18.2	27.6	0.43	0.000	0.0050	0.14	0.0001	0.0010
OWS-01	Median	21.0	6.30	294	238	0.04	13.00	0.10	5.6	3.10	51.0	0.022	19.1	35.5	0.67	0.018	0.0100	0.50	0.0015	0.0010
OWS-01	75th Percentile	23.0	6.40	383	265	0.04	16.00	0.10	14.2	3.60	57.0	0.031	21.0	43.1	0.97	0.030	0.0100	0.50	0.0020	0.0010
OWS-01	IQR	10.0	0.20	141	70	0.01	6.00	0.00	9.2	1.10	16.0	0.011	2.9	15.5	0.54	0.030	0.0050	0.36	0.0019	0.0000
OWS-01	%ND	0%	0%	0%	0%	67%	0%	81%	37%	5%	0%	0%	0%	0%	5%	90%	73%	61%	80%	80%
OWS-01	%> Guidance Level		78%		10%									100%	95%		2%	2%		

Table C- 2
Statistics Summary--ILF General Chemistry and Metals
Weyerhaeuser New Bern Cellulose Fibers Mill

Site	Sample Dates: 8/17/1989 to 8/30/2011	Temperature; Field (°C)	pH; Field (units)	Specific Conductance; Field (uS/cm)	Total Dissolved Solids; Total (mg/L)	Nitrate (as N); Total (mg/L)	Chloride; Total (mg/L)	Fluoride; Total (mg/L)	Sulfate; Total (mg/L)	Biochemical Oxygen Demand; Total (mg/L)	Chemical Oxygen Demand; Total (mg/L)	Total Organic Halogens; Total (mg/L)	Total Organic Carbon; Total (mg/L)	Iron; Total (mg/L)	Manganese; Total (mg/L)	Antimony; Total (mg/L)	Arsenic; Total (mg/L)	Barium; Total (mg/L)	Beryllium; Total (mg/L)	Cadmium; Total (mg/L)
15A NCAC 02LGroundwaterClass GA		---	6.5-8.5	---	500	10	250	2	250	---	---	---	---	0.3	0.05	---	0.01	0.7	---	0.002
NC-2L-GW IMAC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	---	---	0.004	---
NC-GWP Stds		---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	---	---	0.004	---
OWS-02	Count	41	41	41	21	21	21	21	41	21	21	21	21	21	21	20	41	41	20	41
OWS-02	Maximum	25	7	1400	894	6.78	31	0.36	190.6	18	263	0.052	45.68	155.1	2.528	0.03	0.025	1.452	0.002	0.005
OWS-02	Minimum	11	5.4	269	249	0.02	1	0.1	5	1.8	10	0.024	17.3	0.094	0.01	0.00005	0.00047	0.0449	0.00002	0.00004
OWS-02	Average	18.6	6.48	902	558	0.71	13.90	0.11	36.3	6.47	84.7	0.033	25.9	64.9	1.20	0.015	0.0081	0.42	0.0011	0.0011
OWS-02	Std Dev	4.6	0.30	266	165	1.56	6.17	0.06	42.6	3.46	60.4	0.007	7.1	41.8	0.52	0.015	0.0047	0.26	0.0010	0.0012
OWS-02	CV	0.2	0.0	0.3	0.3	2.2	0.4	0.5	1.2	0.5	0.7	0.2	0.3	0.6	0.4	1.0	0.6	0.6	0.9	1.0
OWS-02	CI about Mean	0.0	0.00	3	2	0.02	0.08	0.00	0.4	0.05	0.8	0.000	0.1	0.6	0.01	0.000	0.0000	0.00	0.0000	0.0000
OWS-02	25th Percentile	15.0	6.30	750	492	0.04	12.00	0.10	12.5	4.40	55.0	0.028	20.9	42.3	0.94	0.000	0.0050	0.18	0.0001	0.0010
OWS-02	Median	21.0	6.50	930	529	0.04	15.00	0.10	21.2	6.30	67.0	0.031	22.8	57.4	1.14	0.018	0.0100	0.50	0.0015	0.0010
OWS-02	75th Percentile	22.0	6.70	1001	643	0.52	16.00	0.10	40.0	7.60	90.0	0.036	30.2	85.2	1.57	0.030	0.0100	0.50	0.0020	0.0010
OWS-02	IQR	7.0	0.40	251	151	0.48	4.00	0.00	27.5	3.20	35.0	0.008	9.3	42.9	0.62	0.030	0.0050	0.32	0.0019	0.0000
OWS-02	%ND	0%	0%	0%	0%	52%	10%	81%	10%	0%	5%	0%	0%	0%	5%	60%	66%	59%	90%	80%
OWS-02	%> Guidance Level		46%		71%									95%	95%		7%	5%		
OWS-03	Count	41	41	41	21	21	21	21	41	21	21	21	21	21	21	20	41	41	20	41
OWS-03	Maximum	28	6.9	1049	500	1.14	11	0.34	101.2	19	435	0.046	38.09	66.3	4.914	0.03	0.023	2.284	0.002	0.005
OWS-03	Minimum	10	5.4	260	239	0.02	1	0.1	3	1	10	0.006	5.16	0.891	0.039	0.00005	0.0007	0.068	0.00002	0.0001
OWS-03	Average	20.6	6.37	593	315	0.19	5.90	0.11	18.0	3.65	56.6	0.023	12.64	25.4	0.56	0.015	0.0083	0.43	0.0011	0.0011
OWS-03	Std Dev	4.9	0.27	205	61	0.30	3.19	0.05	22.1	3.71	91.1	0.011	6.89	17.7	1.13	0.015	0.0041	0.39	0.0010	0.0012
OWS-03	CV	0.2	0.0	0.3	0.2	1.6	0.5	0.5	1.2	1.0	1.6	0.5	0.5	0.7	2.0	1.0	0.5	0.9	0.9	1.1
OWS-03	CI about Mean	0.0	0.00	2	1	0.00	0.04	0.00	0.2	0.05	1.2	0.000	0.09	0.2	0.02	0.000	0.0000	0.00	0.0000	0.0000
OWS-03	25th Percentile	17.0	6.30	420	271	0.04	3.00	0.10	6.7	2.10	24.0	0.016	9.18	8.3	0.11	0.000	0.0050	0.10	0.0001	0.0010
OWS-03	Median	23.0	6.40	541	311	0.04	6.00	0.10	9.7	2.80	28.0	0.018	11.29	24.3	0.15	0.018	0.0100	0.50	0.0015	0.0010
OWS-03	75th Percentile	25.0	6.50	723	344	0.16	8.00	0.10	17.0	3.40	47.0	0.034	14.21	38.9	0.31	0.030	0.0100	0.50	0.0020	0.0010
OWS-03	IQR	8.0	0.20	303	73	0.12	5.00	0.00	10.3	1.30	23.0	0.018	5.03	30.6	0.20	0.030	0.0050	0.40	0.0019	0.0000
OWS-03	%ND	0%	0%	0%	0%	48%	5%	86%	22%	14%	10%	0%	0%	0%	0%	95%	68%	61%	100%	78%
OWS-03	%> Guidance Level		61%		5%									100%	95%		10%	5%		
All Sites	Count	203	203	203	103	103	103	103	203	103	103	103	103	103	103	100	203	203	100	203
All Sites	Maximum	35	8.5	3770	2183	6.78	140	0.52	414.6	115	435	0.169	303	177	5.035	0.03	0.066	7.24	0.002	0.005
All Sites	Minimum	2	4.6	110	110	0.02	1	0.015	1	1	10	0.006	5.16	0.094	0.01	0.00005	0.00047	0.0189	0.00002	0.00002
All Sites	Average	18.9	6.68	846	519	0.23	20.3	0.13	35.3	7.66	77.0	0.029	23.7	34.2	1.08	0.015	0.0085	0.45	0.0011	0.0011
All Sites	Std Dev	6.0	0.63	567	328	0.76	22.6	0.08	46.8	13.19	75.3	0.018	30.6	33.5	1.21	0.015	0.0057	0.61	0.0009	0.0012
All Sites	CV	0.3	0.1	0.7	0.6	3.3	1.1	0.6	1.3	1.7	1.0	0.6	1.3	1.0	1.1	1.0	0.7	1.3	0.9	1.1
All Sites	CI about Mean	0.0	0.00	2	2	0.00	0.1	0.00	0.2	0.08	0.5	0.000	0.2	0.2	0.01	0.000	0.0000	0.00	0.0000	0.0000
All Sites	25th Percentile	15.0	6.30	440	277	0.04	10.0	0.10	8.0	2.50	32.5	0.019	11.8	9.4	0.18	0.000	0.0050	0.12	0.0001	0.0010
All Sites	Median	20.0	6.50	752	471	0.04	14.0	0.10	21.1	3.70	51.0	0.026	18.6	27.7	0.69	0.018	0.0100	0.50	0.0015	0.0010
All Sites	75th Percentile	23.0	6.80	1000	591	0.05	18.5	0.11	40.0	7.20	81.5	0.035	25.9	42.4	1.54	0.030	0.0100	0.50	0.0020	0.0010
All Sites	IQR	8.0	0.50	561	314	0.01	8.5	0.01	32.0	4.70	49.0	0.017	14.1	33.1	1.35	0.030	0.0050	0.38	0.0019	0.0000
All Sites	%ND	0%	0%	0%	0%	64%	3%	68%	16%	8%	3%	0%	0%	0%	2%	80%	62%	62%	93%	85%
All Sites	%> Guidance Level		43%		42%				%					99%	95%		12%	4%		0.5%

Table C- 2
Statistics Summary--ILF General Chemistry and Metals
Weyerhaeuser New Bern Cellulose Fibers Mill

Site	Sample Dates: 8/17/1989 to 8/30/2011	Temperature; Field (°C)	pH; Field (units)	Specific Conductance; Field (uS/cm)	Total Dissolved Solids; Total (mg/L)	Nitrate (as N); Total (mg/L)	Chloride; Total (mg/L)	Fluoride; Total (mg/L)	Sulfate; Total (mg/L)	Biochemical Oxygen Demand; Total (mg/L)	Chemical Oxygen Demand; Total (mg/L)	Total Organic Halogens; Total (mg/L)	Total Organic Carbon; Total (mg/L)	Iron; Total (mg/L)	Manganese; Total (mg/L)	Antimony; Total (mg/L)	Arsenic; Total (mg/L)	Barium; Total (mg/L)	Beryllium; Total (mg/L)	Cadmium; Total (mg/L)
15A NCAC 02LGroundwaterClass GA		---	6.5-8.5	---	500	10	250	2	250	---	---	---	---	0.3	0.05	---	0.01	0.7	---	0.002
NC-2L-GW IMAC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	---	---	0.004	---
NC-GWP Stds		---	---	---	---	---	---	---	---	---	---	---	---	---	---	0.001	---	---	0.004	---

CV = Coefficient of variation (standard deviation/average)

CI = Confidence interval about the mean at the 95% confidence level

IQR = Interquartile range (75th percentile - 25th percentile)

%ND = Percent of non-detect values

%> Guidance Level = Percent of values above regulatory limit (N/A = not available)

Table C- 2
Statistics Summary--ILF General Chemistry and Metals
Weyerhaeuser New Bern Cellulose Fibers Mill

Site	Sample Dates: 8/17/1989 to 8/30/2011	Chromium; Total (mg/L)	Cobalt; Total (mg/L)	Copper; Total (mg/L)	Lead; Total (mg/L)	Mercury; Total (mg/L)	Nickel; Total (mg/L)	Selenium; Total (mg/L)	Silver; Total (mg/L)	Thallium; Total (mg/L)	Vanadium; Total (mg/L)	Zinc; Total (mg/L)
15A NCAC 02LGroundwaterClass GA		0.01	---	1	0.015	0.001	0.1	0.02	0.02	---	---	1
NC-2L-GW IMAC		---	0.001	---	---	---	---	---	---	0.0002	0.0003	---
NC-GWP Stds		---	0.001	---	---	---	---	---	---	0.00028	0.0003	---
LC-01	Count	39	20	39	39	19	20	39	39	20	20	39
LC-01	Maximum	0.1	0.01	0.25	0.066	0.001	0.05	0.02	0.01	0.01	0.067	0.505
LC-01	Minimum	0.00011	0.00029	0.0014	0.0001	0.0002	0.0023	0.00012	0.00002	0.00002	0.0027	0.0021
LC-01	Average	0.013	0.0058	0.13	0.0089	0.00045	0.031	0.013	0.0069	0.0053	0.027	0.046
LC-01	Std Dev	0.020	0.0047	0.09	0.0104	0.00028	0.022	0.009	0.0042	0.0049	0.019	0.078
LC-01	CV	1.6	0.8	0.7	1.2	0.6	0.7	0.7	0.6	0.9	0.7	1.7
LC-01	CI about Mean	0.000	0.0001	0.00	0.0001	0.00000	0.000	0.000	0.0000	0.0001	0.000	0.001
LC-01	25th Percentile	0.005	0.0008	0.01	0.0050	0.00020	0.008	0.005	0.0050	0.0000	0.008	0.010
LC-01	Median	0.010	0.0100	0.20	0.0100	0.00050	0.050	0.020	0.0100	0.0075	0.033	0.050
LC-01	75th Percentile	0.010	0.0100	0.20	0.0100	0.00050	0.050	0.020	0.0100	0.0100	0.040	0.050
LC-01	IQR	0.005	0.0092	0.19	0.0050	0.00030	0.042	0.015	0.0050	0.0100	0.032	0.040
LC-01	%ND	62%	55%	64%	67%	95%	55%	85%	95%	100%	45%	64%
LC-01	%> Guidance Level	18%			8%						10%	
OWD-01	Count	41	20	41	41	21	20	41	41	20	20	41
OWD-01	Maximum	0.079	0.034	0.3	0.018	0.001	0.05	0.02	0.01	0.01	0.04	0.109
OWD-01	Minimum	0.00003	0.0062	0.0002	0.00001	0.0002	0.0033	0.00012	0.00002	0.0003	0.00028	0.0013
OWD-01	Average	0.011	0.019	0.13	0.0075	0.00048	0.030	0.013	0.0071	0.0055	0.021	0.037
OWD-01	Std Dev	0.015	0.009	0.10	0.0047	0.00029	0.023	0.009	0.0041	0.0047	0.020	0.025
OWD-01	CV	1.5	0.5	0.7	0.6	0.6	0.8	0.6	0.6	0.9	0.9	0.7
OWD-01	CI about Mean	0.000	0.000	0.00	0.0000	0.00000	0.000	0.000	0.0000	0.0001	0.000	0.000
OWD-01	25th Percentile	0.005	0.010	0.02	0.0050	0.00020	0.006	0.005	0.0050	0.0006	0.001	0.010
OWD-01	Median	0.010	0.020	0.20	0.0100	0.00050	0.050	0.020	0.0100	0.0075	0.033	0.050
OWD-01	75th Percentile	0.010	0.026	0.20	0.0100	0.00050	0.050	0.020	0.0100	0.0100	0.040	0.050
OWD-01	IQR	0.005	0.016	0.18	0.0050	0.00030	0.044	0.015	0.0050	0.0094	0.039	0.040
OWD-01	%ND	85%	15%	66%	80%	100%	55%	95%	90%	55%	65%	71%
OWD-01	%> Guidance Level	10%	65%		5%							
OWS-01	Count	41	20	41	41	21	20	41	41	20	20	41
OWS-01	Maximum	0.096	0.067	0.2	0.066	0.001	0.05	0.02	0.01	0.01	0.526	0.27
OWS-01	Minimum	0.0007	0.001	0.0003	0.0001	0.0002	0.0013	0.00012	0.00003	0.00003	0.004	0.0024
OWS-01	Average	0.019	0.013	0.13	0.012	0.00051	0.029	0.013	0.0071	0.0053	0.058	0.053
OWS-01	Std Dev	0.021	0.015	0.09	0.013	0.00029	0.024	0.009	0.0041	0.0049	0.117	0.053
OWS-01	CV	1.1	1.1	0.7	1.1	0.6	0.8	0.6	0.6	0.9	2.0	1.0
OWS-01	CI about Mean	0.000	0.000	0.00	0.000	0.00000	0.000	0.000	0.0000	0.0001	0.002	0.001
OWS-01	25th Percentile	0.010	0.005	0.02	0.005	0.00020	0.002	0.005	0.0050	0.0001	0.005	0.033
OWS-01	Median	0.013	0.010	0.20	0.010	0.00050	0.050	0.020	0.0100	0.0075	0.033	0.050
OWS-01	75th Percentile	0.020	0.017	0.20	0.012	0.00050	0.050	0.020	0.0100	0.0100	0.040	0.050
OWS-01	IQR	0.010	0.013	0.18	0.007	0.00030	0.048	0.015	0.0050	0.0099	0.035	0.017
OWS-01	%ND	17%	20%	63%	41%	86%	55%	93%	90%	80%	35%	49%
OWS-01	%> Guidance Level	61%	35%		20%					5%	20%	

Table C- 2
Statistics Summary--ILF General Chemistry and Metals
Weyerhaeuser New Bern Cellulose Fibers Mill

Site	Sample Dates: 8/17/1989 to 8/30/2011	Chromium; Total (mg/L)	Cobalt; Total (mg/L)	Copper; Total (mg/L)	Lead; Total (mg/L)	Mercury; Total (mg/L)	Nickel; Total (mg/L)	Selenium; Total (mg/L)	Silver; Total (mg/L)	Thallium; Total (mg/L)	Vanadium; Total (mg/L)	Zinc; Total (mg/L)
15A NCAC 02LGroundwaterClass GA		0.01	---	1	0.015	0.001	0.1	0.02	0.02	---	---	1
NC-2L-GW IMAC		---	0.001	---	---	---	---	---	---	0.0002	0.0003	---
NC-GWP Stds		---	0.001	---	---	---	---	---	---	0.00028	0.0003	---
OWS-02	Count	41	20	41	41	21	20	41	41	20	20	41
OWS-02	Maximum	0.1	0.01	0.2	0.026	0.001	0.05	0.02	0.01	0.028	0.113	0.119
OWS-02	Minimum	0.0002	0.0003	0.0005	0.00015	0.0002	0.0015	0.00012	0.00003	0.00003	0.0046	0.0025
OWS-02	Average	0.015	0.0062	0.13	0.0085	0.00048	0.030	0.013	0.0071	0.0065	0.032	0.040
OWS-02	Std Dev	0.021	0.0046	0.09	0.0059	0.00029	0.023	0.009	0.0041	0.0071	0.023	0.025
OWS-02	CV	1.4	0.7	0.7	0.7	0.6	0.8	0.6	0.6	1.1	0.7	0.6
OWS-02	CI about Mean	0.000	0.0001	0.00	0.0001	0.00000	0.000	0.000	0.0000	0.0001	0.000	0.000
OWS-02	25th Percentile	0.010	0.0007	0.02	0.0050	0.00020	0.005	0.005	0.0050	0.0001	0.015	0.011
OWS-02	Median	0.010	0.0100	0.20	0.0100	0.00050	0.050	0.020	0.0100	0.0100	0.037	0.050
OWS-02	75th Percentile	0.010	0.0100	0.20	0.0100	0.00050	0.050	0.020	0.0100	0.0100	0.040	0.050
OWS-02	IQR	0.000	0.0094	0.19	0.0050	0.00030	0.045	0.015	0.0050	0.0099	0.025	0.039
OWS-02	%ND	63%	55%	63%	66%	95%	55%	88%	88%	85%	50%	59%
OWS-02	%> Guidance Level	15%			7%						10%	
OWS-03	Count	41	20	41	41	21	20	41	41	20	20	41
OWS-03	Maximum	0.113	0.01	0.2	0.038	0.001	0.05	0.02	0.01	0.01	0.04	0.113
OWS-03	Minimum	0.0001	0.0003	0.0002	0.00007	0.0002	0.0013	0.00012	0.00002	0.00003	0.0014	0.0005
OWS-03	Average	0.016	0.0060	0.12	0.0082	0.00048	0.029	0.013	0.0071	0.0053	0.022	0.038
OWS-03	Std Dev	0.023	0.0046	0.10	0.0067	0.00029	0.024	0.009	0.0041	0.0049	0.019	0.027
OWS-03	CV	1.4	0.8	0.8	0.8	0.6	0.8	0.6	0.6	0.9	0.9	0.7
OWS-03	CI about Mean	0.000	0.0001	0.00	0.0001	0.00000	0.000	0.000	0.0000	0.0001	0.000	0.000
OWS-03	25th Percentile	0.005	0.0008	0.01	0.0050	0.00020	0.003	0.005	0.0050	0.0001	0.002	0.010
OWS-03	Median	0.010	0.0100	0.20	0.0100	0.00050	0.050	0.020	0.0100	0.0075	0.033	0.050
OWS-03	75th Percentile	0.012	0.0100	0.20	0.0100	0.00050	0.050	0.020	0.0100	0.0100	0.040	0.050
OWS-03	IQR	0.007	0.0092	0.19	0.0050	0.00030	0.047	0.015	0.0050	0.0100	0.038	0.040
OWS-03	%ND	49%	60%	63%	66%	100%	55%	95%	93%	95%	55%	63%
OWS-03	%> Guidance Level	29%			7%							
All Sites	Count	203	100	203	203	103	100	203	203	100	100	203
All Sites	Maximum	0.113	0.067	0.3	0.066	0.001	0.05	0.02	0.01	0.028	0.526	0.505
All Sites	Minimum	0.00003	0.00029	0.0002	0.00001	0.0002	0.0013	0.00012	0.00002	0.00002	0.00028	0.0005
All Sites	Average	0.015	0.010	0.13	0.0091	0.00048	0.030	0.013	0.0071	0.0056	0.032	0.043
All Sites	Std Dev	0.020	0.010	0.09	0.0089	0.00028	0.023	0.009	0.0041	0.0053	0.056	0.046
All Sites	CV	1.4	1.0	0.7	1.0	0.6	0.8	0.6	0.6	1.0	1.7	1.1
All Sites	CI about Mean	0.000	0.000	0.00	0.0000	0.00000	0.000	0.000	0.0000	0.0000	0.000	0.000
All Sites	25th Percentile	0.005	0.003	0.01	0.0050	0.00020	0.005	0.005	0.0050	0.0001	0.005	0.010
All Sites	Median	0.010	0.010	0.20	0.0100	0.00050	0.050	0.020	0.0100	0.0100	0.037	0.050
All Sites	75th Percentile	0.011	0.010	0.20	0.0100	0.00050	0.050	0.020	0.0100	0.0100	0.040	0.050
All Sites	IQR	0.006	0.007	0.19	0.0050	0.00030	0.045	0.015	0.0050	0.0099	0.035	0.040
All Sites	%ND	55%	41%	64%	64%	95%	55%	91%	91%	83%	50%	61%
All Sites	%> Guidance Level	27%	20%		9%					1%	8%	

Table C- 2
Statistics Summary--ILF General Chemistry and Metals
Weyerhaeuser New Bern Cellulose Fibers Mill

Site	Sample Dates: 8/17/1989 to 8/30/2011	Chromium; Total (mg/L)	Cobalt; Total (mg/L)	Copper; Total (mg/L)	Lead; Total (mg/L)	Mercury; Total (mg/L)	Nickel; Total (mg/L)	Selenium; Total (mg/L)	Silver; Total (mg/L)	Thallium; Total (mg/L)	Vanadium; Total (mg/L)	Zinc; Total (mg/L)
15A NCAC 02LGroundwaterClass GA		0.01	---	1	0.015	0.001	0.1	0.02	0.02	---	---	1
NC-2L-GW IMAC		---	0.001	---	---	---	---	---	---	0.0002	0.0003	---
NC-GWP Stds		---	0.001	---	---	---	---	---	---	0.00028	0.0003	---

CV = Coefficient of variation (standard deviatior

CI = Confidence interval about the mean at the

IQR = Interquartile range (75th percentile - 25th

%ND = Percent of non-detect values

%> Guidance Level = Percent of values above ı

Table C-3
ILF Volatile Organics Analyses
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Acetone Total (ug/L)	Acrylonitrile Total (ug/L)	Benzene Total (ug/L)	Bromochloro methane Total (ug/L)	Bromodichloro methane Total (ug/L)	Bromoform Total (ug/L)	Bromomethane Total (ug/L)	2-Butanone Total (ug/L)	Carbon disulfide Total (ug/L)	Carbon tetrachloride Total (ug/L)	Chlorobenzene Total (ug/L)	Chloroethane Total (ug/L)
2L Groundwater Class GA Stds			6000	---	1	---	0.6	4	---	4000	700	0.3	50	3000
NC-2L-GW IMAC			---	---	---	---	---	---	10	---	---	---	---	---
NC-GWP Stds			---	---	---	0.6	---	---	10	---	---	---	---	---
LC-01	2/19/2002	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
LC-01	8/27/2002	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
LC-01	2/24/2003	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
LC-01	8/26/2003	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
LC-01	2/2/2004	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
LC-01	8/19/2004	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
LC-01	2/9/2005	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
LC-01	8/26/2005	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
LC-01	2/2/2006	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
LC-01	8/1/2006	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
LC-01	2/22/2007	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
LC-01	8/30/2007	Primary	6.9JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	8.6J	<0.14U	<0.13U	<0.13U	<0.29U
LC-01	2/21/2008	Primary	2.9JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	<0.85U	<0.14U	<0.13U	<0.13U	<0.29U
LC-01	8/5/2008	Primary	7.1JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	3.9JL	<0.14U	<0.13U	<0.13U	<0.29U
LC-01	2/20/2009	Primary	5JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	4JL	<0.14U	<0.13U	<0.13U	<0.29U
LC-01	8/11/2009	Primary	4.80JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	2.00JL	<0.14U	<0.13U	<0.13U	<0.29U
LC-01	2/19/2010	Primary	<9.06U	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U
LC-01	8/18/2010	Primary	9.8JL	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U
LC-01	2/3/2011	Primary	<9.06U	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U
LC-01	8/30/2011	Primary	15.9JL	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U
OWD-01	2/19/2002	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWD-01	8/27/2002	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWD-01	2/24/2003	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWD-01	8/26/2003	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWD-01	2/2/2004	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWD-01	8/19/2004	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWD-01	2/9/2005	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWD-01	8/26/2005	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWD-01	2/2/2006	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWD-01	8/1/2006	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWD-01	2/22/2007	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWD-01	8/30/2007	Primary	1.7JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	1.4JL	<0.14U	<0.13U	<0.13U	<0.29U
OWD-01	2/21/2008	Primary	3.5JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	<0.85U	<0.14U	<0.13U	<0.13U	<0.29U
OWD-01	8/5/2008	Primary	5.6JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	3.6JL	<0.14U	<0.13U	<0.13U	<0.29U
OWD-01	2/20/2009	Primary	1.6JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	1.6JL	<0.14U	<0.13U	<0.13U	<0.29U
OWD-01	8/11/2009	Primary	1.80JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	1.10JL	<0.14U	<0.13U	<0.13U	<0.29U
OWD-01	2/19/2010	Primary	<9.06U	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U
OWD-01	8/18/2010	Primary	9.4JL	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U
OWD-01	2/3/2011	Primary	<9.06U	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U
OWD-01	8/30/2011	Primary	<9.06U	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U

Table C-3
ILF Volatile Organics Analyses
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Acetone Total (ug/L)	Acrylonitrile Total (ug/L)	Benzene Total (ug/L)	Bromochloro methane Total (ug/L)	Bromodichloro methane Total (ug/L)	Bromoform Total (ug/L)	Bromomethane Total (ug/L)	2-Butanone Total (ug/L)	Carbon disulfide Total (ug/L)	Carbon tetrachloride Total (ug/L)	Chlorobenzene Total (ug/L)	Chloroethane Total (ug/L)
2L Groundwater Class GA Stds			6000	---	1	---	0.6	4	---	4000	700	0.3	50	3000
NC-2L-GW IMAC			---	---	---	---	---	---	10	---	---	---	---	---
NC-GWP Stds			---	---	---	0.6	---	---	10	---	---	---	---	---
OWS-01	2/19/2002	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-01	8/27/2002	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-01	2/24/2003	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-01	8/26/2003	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-01	2/2/2004	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-01	8/19/2004	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-01	2/9/2005	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-01	8/26/2005	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-01	2/2/2006	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-01	8/1/2006	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-01	2/22/2007	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-01	8/30/2007	Primary	1.5JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	1.4JL	<0.14U	<0.13U	<0.13U	<0.29U
OWS-01	2/21/2008	Primary	3.4JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	<0.85U	<0.14U	<0.13U	<0.13U	<0.29U
OWS-01	8/5/2008	Primary	4.1JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	2.6JL	<0.14U	<0.13U	<0.13U	<0.29U
OWS-01	2/20/2009	Primary	2.2JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	2.3JL	<0.14U	<0.13U	<0.13U	<0.29U
OWS-01	8/11/2009	Primary	30.20J	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	<0.85U	<0.14U	<0.13U	<0.13U	<0.29U
OWS-01	2/19/2010	Primary	<9.06U	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U
OWS-01	8/18/2010	Primary	<9.06U	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U
OWS-01	2/3/2011	Primary	<9.06U	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U
OWS-01	8/30/2011	Primary	<9.06U	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U
OWS-02	2/19/2002	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-02	8/27/2002	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-02	2/24/2003	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-02	8/26/2003	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-02	2/2/2004	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-02	8/19/2004	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-02	2/9/2005	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-02	8/26/2005	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-02	2/2/2006	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-02	8/1/2006	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-02	2/22/2007	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-02	8/30/2007	Primary	2.5JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	3.1JL	<0.14U	<0.13U	<0.13U	<0.29U
OWS-02	2/21/2008	Primary	2.6JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	<0.85U	<0.14U	<0.13U	<0.13U	<0.29U
OWS-02	8/5/2008	Primary	5.4JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	3.5JL	<0.14U	<0.13U	<0.13U	<0.29U
OWS-02	2/20/2009	Primary	2.3JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	2.4JL	<0.14U	<0.13U	<0.13U	<0.29U
OWS-02	8/11/2009	Primary	2.00JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	1.1JL	<0.14U	<0.13U	<0.13U	<0.29U
OWS-02	2/19/2010	Primary	<9.06U	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U
OWS-02	8/18/2010	Primary	<9.06U	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U
OWS-02	2/3/2011	Primary	<9.06U	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U
OWS-02	8/30/2011	Primary	<9.06U	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U

Table C-3
ILF Volatile Organics Analyses
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Acetone Total (ug/L)	Acrylonitrile Total (ug/L)	Benzene Total (ug/L)	Bromochloro methane Total (ug/L)	Bromodichloro methane Total (ug/L)	Bromoform Total (ug/L)	Bromomethane Total (ug/L)	2-Butanone Total (ug/L)	Carbon disulfide Total (ug/L)	Carbon tetrachloride Total (ug/L)	Chlorobenzene Total (ug/L)	Chloroethane Total (ug/L)
2L Groundwater Class GA Stds			6000	---	1	---	0.6	4	---	4000	700	0.3	50	3000
NC-2L-GW IMAC			---	---	---	---	---	---	10	---	---	---	---	---
NC-GWP Stds			---	---	---	0.6	---	---	10	---	---	---	---	---
OWS-03	2/19/2002	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-03	8/27/2002	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-03	2/24/2003	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-03	8/26/2003	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-03	2/2/2004	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-03	8/19/2004	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-03	2/9/2005	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-03	8/26/2005	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-03	2/2/2006	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-03	8/1/2006	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-03	2/22/2007	Primary	---	---	---	---	<1	<1	<1	---	---	<1	<1	<1
OWS-03	8/30/2007	Primary	1.8JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	2.3JL	<0.14U	<0.13U	<0.13U	<0.29U
OWS-03	2/21/2008	Primary	5.7JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	<0.85U	<0.14U	<0.13U	<0.13U	<0.29U
OWS-03	8/5/2008	Primary	5.4JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	3.8JL	<0.14U	<0.13U	<0.13U	<0.29U
OWS-03	2/20/2009	Primary	2.2JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	2.5JL	<0.14U	<0.13U	<0.13U	<0.29U
OWS-03	8/11/2009	Primary	1.40JL	<1.49U	<0.16U	<0.11U	<0.13U	<0.11U	<0.26U	<0.85U	<0.14U	<0.13U	<0.13U	<0.29U
OWS-03	2/19/2010	Primary	<9.06U	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U
OWS-03	8/18/2010	Primary	<9.06U	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U
OWS-03	2/3/2011	Primary	<9.06U	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U
OWS-03	8/30/2011	Primary	<9.06U	<2.72U	<0.24U	<0.27U	<0.21U	<0.20U	<0.67U	<2.21U	<0.23U	<0.22U	<0.30U	<0.48U

Table C-3
ILF Volatile Organics Analyses
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	2-Chloroethyl vinylether Total (ug/L)	Chloroform Total (ug/L)	Chloromethane Total (ug/L)	1,2-Dibromo-3-chloropropane Total (ug/L)	Dibromochloromethane Total (ug/L)	1,2-Dibromoetha Total (ug/L)	Dibromomethane Total (ug/L)	trans-1,4-Dichloro-2-butene Total (ug/L)	1,2-Dichlorobenzene Total (ug/L)	1,3-Dichlorobenzene Total (ug/L)
2L Groundwater Class GA Stds			---	70	3	0.04	0.4	0.02	---	---	20	200
NC-2L-GW IMAC			---	---	---	---	---	---	70	---	---	---
NC-GWP Stds			---	---	---	---	0.41	---	70	---	---	---
LC-01	2/19/2002	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
LC-01	8/27/2002	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
LC-01	2/24/2003	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
LC-01	8/26/2003	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
LC-01	2/2/2004	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
LC-01	8/19/2004	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
LC-01	2/9/2005	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
LC-01	8/26/2005	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
LC-01	2/2/2006	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
LC-01	8/1/2006	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
LC-01	2/22/2007	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
LC-01	8/30/2007	Primary	---	<0.13U	0.3JL	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
LC-01	2/21/2008	Primary	---	<0.13U	<0.18U	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
LC-01	8/5/2008	Primary	---	<0.13U	0.9JL	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
LC-01	2/20/2009	Primary	---	<0.13U	0.2JL	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
LC-01	8/11/2009	Primary	---	<0.13U	0.3JL	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
LC-01	2/19/2010	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---
LC-01	8/18/2010	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---
LC-01	2/3/2011	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---
LC-01	8/30/2011	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---
OWD-01	2/19/2002	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWD-01	8/27/2002	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWD-01	2/24/2003	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWD-01	8/26/2003	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWD-01	2/2/2004	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWD-01	8/19/2004	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWD-01	2/9/2005	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWD-01	8/26/2005	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWD-01	2/2/2006	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWD-01	8/1/2006	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWD-01	2/22/2007	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWD-01	8/30/2007	Primary	---	<0.13U	<0.18U	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWD-01	2/21/2008	Primary	---	<0.13U	<0.18U	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWD-01	8/5/2008	Primary	---	<0.13U	0.6JL	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWD-01	2/20/2009	Primary	---	<0.13U	<0.18U	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWD-01	8/11/2009	Primary	---	<0.13U	<0.18U	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWD-01	2/19/2010	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---
OWD-01	8/18/2010	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---
OWD-01	2/3/2011	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---
OWD-01	8/30/2011	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---

Table C-3
ILF Volatile Organics Analyses
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	2-Chloroethyl vinylether Total (ug/L)	Chloroform Total (ug/L)	Chloromethane Total (ug/L)	1,2-Dibromo-3-chloropropane Total (ug/L)	Dibromochloromethane Total (ug/L)	1,2-Dibromoetha Total (ug/L)	Dibromomethane Total (ug/L)	trans-1,4-Dichloro-2-butene Total (ug/L)	1,2-Dichlorobenzene Total (ug/L)	1,3-Dichlorobenzene Total (ug/L)
2L Groundwater Class GA Stds			---	70	3	0.04	0.4	0.02	---	---	20	200
NC-2L-GW IMAC			---	---	---	---	---	---	70	---	---	---
NC-GWP Stds			---	---	---	---	0.41	---	70	---	---	---
OWS-01	2/19/2002	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-01	8/27/2002	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-01	2/24/2003	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-01	8/26/2003	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-01	2/2/2004	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-01	8/19/2004	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-01	2/9/2005	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-01	8/26/2005	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-01	2/2/2006	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-01	8/1/2006	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-01	2/22/2007	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-01	8/30/2007	Primary	---	<0.13U	<0.18U	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWS-01	2/21/2008	Primary	---	<0.13U	<0.18U	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWS-01	8/5/2008	Primary	---	<0.13U	0.3JL	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWS-01	2/20/2009	Primary	---	<0.13U	0.3JL	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWS-01	8/11/2009	Primary	---	<0.13U	0.20JL	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWS-01	2/19/2010	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---
OWS-01	8/18/2010	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---
OWS-01	2/3/2011	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---
OWS-01	8/30/2011	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---
OWS-02	2/19/2002	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-02	8/27/2002	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-02	2/24/2003	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-02	8/26/2003	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-02	2/2/2004	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-02	8/19/2004	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-02	2/9/2005	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-02	8/26/2005	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-02	2/2/2006	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-02	8/1/2006	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-02	2/22/2007	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-02	8/30/2007	Primary	---	<0.13U	<0.18U	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWS-02	2/21/2008	Primary	---	<0.13U	<0.18U	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWS-02	8/5/2008	Primary	---	<0.13U	0.6JL	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWS-02	2/20/2009	Primary	---	<0.13U	<0.18U	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWS-02	8/11/2009	Primary	---	<0.13U	0.30JL	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWS-02	2/19/2010	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---
OWS-02	8/18/2010	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---
OWS-02	2/3/2011	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---
OWS-02	8/30/2011	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---

Table C-3
ILF Volatile Organics Analyses
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	2-Chloroethyl vinylether Total (ug/L)	Chloroform Total (ug/L)	Chloromethane Total (ug/L)	1,2-Dibromo-3-chloropropane Total (ug/L)	Dibromochloro methane Total (ug/L)	1,2-Dibromoetha Total (ug/L)	Dibromomethane Total (ug/L)	trans-1,4-Dichloro-2-butene Total (ug/L)	1,2-Dichloro benzene Total (ug/L)	1,3-Dichloro benzene Total (ug/L)
2L Groundwater Class GA Stds			---	70	3	0.04	0.4	0.02	---	---	20	200
NC-2L-GW IMAC			---	---	---	---	---	---	70	---	---	---
NC-GWP Stds			---	---	---	---	0.41	---	70	---	---	---
OWS-03	2/19/2002	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-03	8/27/2002	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-03	2/24/2003	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-03	8/26/2003	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-03	2/2/2004	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-03	8/19/2004	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-03	2/9/2005	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-03	8/26/2005	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-03	2/2/2006	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-03	8/1/2006	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-03	2/22/2007	Primary	<1	<1	<1	---	<1	---	---	---	<1	<1
OWS-03	8/30/2007	Primary	---	<0.13U	<0.18U	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWS-03	2/21/2008	Primary	---	<0.13U	<0.18U	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWS-03	8/5/2008	Primary	---	<0.13U	0.6JL	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWS-03	2/20/2009	Primary	---	<0.13U	<0.18U	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWS-03	8/11/2009	Primary	---	<0.13U	<0.18U	<0.26U	<0.14U	<0.13U	<0.17U	<0.14U	<0.13U	---
OWS-03	2/19/2010	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---
OWS-03	8/18/2010	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---
OWS-03	2/3/2011	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---
OWS-03	8/30/2011	Primary	---	<0.25U	<0.77U	<0.34U	<0.24U	<0.26U	<0.28U	<0.42U	<0.32U	---

Table C-3
ILF Volatile Organics Analyses
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	1,4-Dichloro benzene Total (ug/L)	Dichloro difluoromethane Total (ug/L)	1,1-Dichloro ethane Total (ug/L)	1,2-Dichloro ethane Total (ug/L)	1,1-Dichloro ethene Total (ug/L)	cis-1,2-Dichloroethene Total (ug/L)	trans-1,2-Dichloroethene Total (ug/L)	1,2-Dichloro propane Total (ug/L)	cis-1,3-Dichloropropene Total (ug/L)	Trans-1,3-Dichloropropene Total (ug/L)
2L Groundwater Class GA Stds			6	1000	6	0.4	7	70	100	0.6	0.4	0.4
NC-2L-GW IMAC			---	---	---	---	---	---	---	---	---	---
NC-GWP Stds			---	---	---	---	---	---	---	---	---	---
LC-01	2/19/2002	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
LC-01	8/27/2002	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
LC-01	2/24/2003	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
LC-01	8/26/2003	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
LC-01	2/2/2004	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
LC-01	8/19/2004	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
LC-01	2/9/2005	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
LC-01	8/26/2005	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
LC-01	2/2/2006	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
LC-01	8/1/2006	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
LC-01	2/22/2007	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
LC-01	8/30/2007	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
LC-01	2/21/2008	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
LC-01	8/5/2008	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
LC-01	2/20/2009	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
LC-01	8/11/2009	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
LC-01	2/19/2010	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U
LC-01	8/18/2010	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U
LC-01	2/3/2011	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U
LC-01	8/30/2011	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U
OWD-01	2/19/2002	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWD-01	8/27/2002	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWD-01	2/24/2003	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWD-01	8/26/2003	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWD-01	2/2/2004	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWD-01	8/19/2004	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWD-01	2/9/2005	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWD-01	8/26/2005	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWD-01	2/2/2006	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWD-01	8/1/2006	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWD-01	2/22/2007	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWD-01	8/30/2007	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWD-01	2/21/2008	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWD-01	8/5/2008	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWD-01	2/20/2009	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWD-01	8/11/2009	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWD-01	2/19/2010	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U
OWD-01	8/18/2010	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U
OWD-01	2/3/2011	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U
OWD-01	8/30/2011	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U

Table C-3
ILF Volatile Organics Analyses
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	1,4-Dichloro benzene Total (ug/L)	Dichloro difluoromethane Total (ug/L)	1,1-Dichloro ethane Total (ug/L)	1,2-Dichloro ethane Total (ug/L)	1,1-Dichloro ethene Total (ug/L)	cis-1,2-Dichloroethene Total (ug/L)	trans-1,2-Dichloroethene Total (ug/L)	1,2-Dichloro propane Total (ug/L)	cis-1,3-Dichloropropene Total (ug/L)	Trans-1,3-Dichloropropene Total (ug/L)
2L Groundwater Class GA Stds			6	1000	6	0.4	7	70	100	0.6	0.4	0.4
NC-2L-GW IMAC			---	---	---	---	---	---	---	---	---	---
NC-GWP Stds			---	---	---	---	---	---	---	---	---	---
OWS-01	2/19/2002	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-01	8/27/2002	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-01	2/24/2003	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-01	8/26/2003	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-01	2/2/2004	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-01	8/19/2004	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-01	2/9/2005	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-01	8/26/2005	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-01	2/2/2006	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-01	8/1/2006	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-01	2/22/2007	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-01	8/30/2007	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWS-01	2/21/2008	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWS-01	8/5/2008	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWS-01	2/20/2009	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWS-01	8/11/2009	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWS-01	2/19/2010	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U
OWS-01	8/18/2010	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U
OWS-01	2/3/2011	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U
OWS-01	8/30/2011	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U
OWS-02	2/19/2002	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-02	8/27/2002	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-02	2/24/2003	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-02	8/26/2003	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-02	2/2/2004	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-02	8/19/2004	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-02	2/9/2005	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-02	8/26/2005	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-02	2/2/2006	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-02	8/1/2006	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-02	2/22/2007	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-02	8/30/2007	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWS-02	2/21/2008	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWS-02	8/5/2008	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWS-02	2/20/2009	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWS-02	8/11/2009	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWS-02	2/19/2010	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U
OWS-02	8/18/2010	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U
OWS-02	2/3/2011	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U
OWS-02	8/30/2011	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U

Table C-3
ILF Volatile Organics Analyses
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	1,4-Dichloro benzene Total (ug/L)	Dichloro difluoromethane Total (ug/L)	1,1-Dichloro ethane Total (ug/L)	1,2-Dichloro ethane Total (ug/L)	1,1-Dichloro ethene Total (ug/L)	cis-1,2-Dichloroethene Total (ug/L)	trans-1,2-Dichloroethene Total (ug/L)	1,2-Dichloro propane Total (ug/L)	cis-1,3-Dichloropropene Total (ug/L)	Trans-1,3-Dichloropropene Total (ug/L)
2L Groundwater Class GA Stds			6	1000	6	0.4	7	70	100	0.6	0.4	0.4
NC-2L-GW IMAC			---	---	---	---	---	---	---	---	---	---
NC-GWP Stds			---	---	---	---	---	---	---	---	---	---
OWS-03	2/19/2002	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-03	8/27/2002	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-03	2/24/2003	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-03	8/26/2003	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-03	2/2/2004	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-03	8/19/2004	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-03	2/9/2005	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-03	8/26/2005	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-03	2/2/2006	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-03	8/1/2006	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-03	2/22/2007	Primary	<1	<1	<1	<1	<1	---	<1	<1	<1	<1
OWS-03	8/30/2007	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWS-03	2/21/2008	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWS-03	8/5/2008	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWS-03	2/20/2009	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWS-03	8/11/2009	Primary	<0.21U	---	<0.16U	<0.12U	<0.14U	<0.14U	<0.13U	<0.17U	<0.17U	<0.14U
OWS-03	2/19/2010	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U
OWS-03	8/18/2010	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U
OWS-03	2/3/2011	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U
OWS-03	8/30/2011	Primary	<0.39U	---	<0.20U	<0.27U	<0.17U	<0.25U	<0.23U	<0.21U	<0.24U	<0.28U

Table C-3
ILF Volatile Organics Analyses
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Ethylbenzene Total (ug/L)	2-Hexanone Total (ug/L)	Iodomethane Total (ug/L)	4-Methyl-2-pentanone Total (ug/L)	Methylene chloride Total (ug/L)	Styrene Total (ug/L)	1,1,1,2-Tetrachloro ethane Total (ug/L)	1,1,2,2-Tetrachloro ethane Total (ug/L)	Tetrachloro ethene Total (ug/L)	Toluene Total (ug/L)	1,1,1-trichloro ethane Total (ug/L)	1,1,2-Trichloro ethane Total (ug/L)
2L Groundwater Class GA Stds			600	---	---	---	5	70	---	0.2	0.7	600	200	---
NC-2L-GW IMAC			---	40	---	100	---	---	1	---	---	---	---	0.6
NC-GWP Stds			---	40	---	100	---	---	1	0.18	---	---	---	0.6
LC-01	2/19/2002	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
LC-01	8/27/2002	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
LC-01	2/24/2003	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
LC-01	8/26/2003	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
LC-01	2/2/2004	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
LC-01	8/19/2004	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
LC-01	2/9/2005	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
LC-01	8/26/2005	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
LC-01	2/2/2006	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
LC-01	8/1/2006	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
LC-01	2/22/2007	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
LC-01	8/30/2007	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
LC-01	2/21/2008	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
LC-01	8/5/2008	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
LC-01	2/20/2009	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
LC-01	8/11/2009	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
LC-01	2/19/2010	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U
LC-01	8/18/2010	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U
LC-01	2/3/2011	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U
LC-01	8/30/2011	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U
OWD-01	2/19/2002	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWD-01	8/27/2002	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWD-01	2/24/2003	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWD-01	8/26/2003	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWD-01	2/2/2004	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWD-01	8/19/2004	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWD-01	2/9/2005	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWD-01	8/26/2005	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWD-01	2/2/2006	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWD-01	8/1/2006	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWD-01	2/22/2007	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWD-01	8/30/2007	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWD-01	2/21/2008	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWD-01	8/5/2008	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWD-01	2/20/2009	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWD-01	8/11/2009	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWD-01	2/19/2010	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U
OWD-01	8/18/2010	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U
OWD-01	2/3/2011	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U
OWD-01	8/30/2011	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U

Table C-3
ILF Volatile Organics Analyses
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Ethylbenzene Total (ug/L)	2-Hexanone Total (ug/L)	Iodomethane Total (ug/L)	4-Methyl-2-pentanone Total (ug/L)	Methylene chloride Total (ug/L)	Styrene Total (ug/L)	1,1,1,2-Tetrachloro ethane Total (ug/L)	1,1,2,2-Tetrachloro ethane Total (ug/L)	Tetrachloro ethene Total (ug/L)	Toluene Total (ug/L)	1,1,1-trichloro ethane Total (ug/L)	1,1,2-Trichloro ethane Total (ug/L)
2L Groundwater Class GA Stds			600	---	---	---	5	70	---	0.2	0.7	600	200	---
NC-2L-GW IMAC			---	40	---	100	---	---	1	---	---	---	---	0.6
NC-GWP Stds			---	40	---	100	---	---	1	0.18	---	---	---	0.6
OWS-01	2/19/2002	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-01	8/27/2002	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-01	2/24/2003	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-01	8/26/2003	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-01	2/2/2004	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-01	8/19/2004	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-01	2/9/2005	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-01	8/26/2005	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-01	2/2/2006	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-01	8/1/2006	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-01	2/22/2007	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-01	8/30/2007	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWS-01	2/21/2008	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWS-01	8/5/2008	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWS-01	2/20/2009	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWS-01	8/11/2009	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWS-01	2/19/2010	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U
OWS-01	8/18/2010	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U
OWS-01	2/3/2011	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U
OWS-01	8/30/2011	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U
OWS-02	2/19/2002	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-02	8/27/2002	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-02	2/24/2003	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-02	8/26/2003	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-02	2/2/2004	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-02	8/19/2004	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-02	2/9/2005	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-02	8/26/2005	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-02	2/2/2006	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-02	8/1/2006	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-02	2/22/2007	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-02	8/30/2007	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWS-02	2/21/2008	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWS-02	8/5/2008	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWS-02	2/20/2009	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWS-02	8/11/2009	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWS-02	2/19/2010	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U
OWS-02	8/18/2010	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U
OWS-02	2/3/2011	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U
OWS-02	8/30/2011	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U

Table C-3
ILF Volatile Organics Analyses
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Ethylbenzene Total (ug/L)	2-Hexanone Total (ug/L)	Iodomethane Total (ug/L)	4-Methyl-2-pentanone Total (ug/L)	Methylene chloride Total (ug/L)	Styrene Total (ug/L)	1,1,1,2-Tetrachloro ethane Total (ug/L)	1,1,2,2-Tetrachloro ethane Total (ug/L)	Tetrachloro ethene Total (ug/L)	Toluene Total (ug/L)	1,1,1-trichloro ethane Total (ug/L)	1,1,2-Trichloro ethane Total (ug/L)
2L Groundwater Class GA Stds			600	---	---	---	5	70	---	0.2	0.7	600	200	---
NC-2L-GW IMAC			---	40	---	100	---	---	1	---	---	---	---	0.6
NC-GWP Stds			---	40	---	100	---	---	1	0.18	---	---	---	0.6
OWS-03	2/19/2002	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-03	8/27/2002	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-03	2/24/2003	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-03	8/26/2003	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-03	2/2/2004	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-03	8/19/2004	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-03	2/9/2005	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-03	8/26/2005	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-03	2/2/2006	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-03	8/1/2006	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-03	2/22/2007	Primary	---	---	---	---	<1	---	---	<1	<1	---	<1	<1
OWS-03	8/30/2007	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWS-03	2/21/2008	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWS-03	8/5/2008	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWS-03	2/20/2009	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWS-03	8/11/2009	Primary	<0.16U	<1.00U	<0.12U	<0.68U	<0.14U	<0.16U	<0.14U	<0.16U	<0.16U	<0.13U	<0.11U	<0.20U
OWS-03	2/19/2010	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U
OWS-03	8/18/2010	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U
OWS-03	2/3/2011	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U
OWS-03	8/30/2011	Primary	<0.21U	<1.57U	<0.26U	<1.19U	<0.64U	<0.19U	<0.22U	<0.26U	<0.17U	<0.23U	<0.19U	<0.25U

Table C-3
ILF Volatile Organics Analyses
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Trichloroethene Total (ug/L)	Trichloro fluoromethane Total (ug/L)	1,2,3-Trichloro propane Total (ug/L)	Vinyl acetate Total (ug/L)	Vinyl chloride Total (ug/L)	Xylene (total) Total (ug/L)
2L Groundwater Class GA Stds			3	2000	0.005	---	0.03	500
NC-2L-GW IMAC			---	---	---	88	---	---
NC-GWP Stds			---	---	---	88	---	---
LC-01	2/19/2002	Primary	<1	<1	---	---	<1	---
LC-01	8/27/2002	Primary	<1	<1	---	---	<1	---
LC-01	2/24/2003	Primary	<1	<1	---	---	<1	---
LC-01	8/26/2003	Primary	<1	<1	---	---	<1	---
LC-01	2/2/2004	Primary	<1	<1	---	---	<1	---
LC-01	8/19/2004	Primary	<1	<1	---	---	<1	---
LC-01	2/9/2005	Primary	<1	<1	---	---	<1	---
LC-01	8/26/2005	Primary	<1	<1	---	---	<1	---
LC-01	2/2/2006	Primary	<1	<1	---	---	<1	---
LC-01	8/1/2006	Primary	<1	<1	---	---	<1	---
LC-01	2/22/2007	Primary	<1	<1	---	---	<1	---
LC-01	8/30/2007	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
LC-01	2/21/2008	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
LC-01	8/5/2008	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
LC-01	2/20/2009	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
LC-01	8/11/2009	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
LC-01	2/19/2010	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U
LC-01	8/18/2010	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U
LC-01	2/3/2011	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U
LC-01	8/30/2011	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U
OWD-01	2/19/2002	Primary	<1	<1	---	---	<1	---
OWD-01	8/27/2002	Primary	<1	<1	---	---	<1	---
OWD-01	2/24/2003	Primary	<1	<1	---	---	<1	---
OWD-01	8/26/2003	Primary	<1	<1	---	---	<1	---
OWD-01	2/2/2004	Primary	<1	<1	---	---	<1	---
OWD-01	8/19/2004	Primary	<1	<1	---	---	<1	---
OWD-01	2/9/2005	Primary	<1	<1	---	---	<1	---
OWD-01	8/26/2005	Primary	<1	<1	---	---	<1	---
OWD-01	2/2/2006	Primary	<1	<1	---	---	<1	---
OWD-01	8/1/2006	Primary	<1	<1	---	---	<1	---
OWD-01	2/22/2007	Primary	<1	<1	---	---	<1	---
OWD-01	8/30/2007	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWD-01	2/21/2008	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWD-01	8/5/2008	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWD-01	2/20/2009	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWD-01	8/11/2009	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWD-01	2/19/2010	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U
OWD-01	8/18/2010	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U
OWD-01	2/3/2011	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U
OWD-01	8/30/2011	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U

Table C-3
ILF Volatile Organics Analyses
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Trichloroethene Total (ug/L)	Trichloro fluoromethane Total (ug/L)	1,2,3-Trichloro propane Total (ug/L)	Vinyl acetate Total (ug/L)	Vinyl chloride Total (ug/L)	Xylene (total) Total (ug/L)
2L Groundwater Class GA Stds			3	2000	0.005	---	0.03	500
NC-2L-GW IMAC			---	---	---	88	---	---
NC-GWP Stds			---	---	---	88	---	---
OWS-01	2/19/2002	Primary	<1	<1	---	---	<1	---
OWS-01	8/27/2002	Primary	<1	<1	---	---	<1	---
OWS-01	2/24/2003	Primary	<1	<1	---	---	<1	---
OWS-01	8/26/2003	Primary	<1	<1	---	---	<1	---
OWS-01	2/2/2004	Primary	<1	<1	---	---	<1	---
OWS-01	8/19/2004	Primary	<1	<1	---	---	<1	---
OWS-01	2/9/2005	Primary	<1	<1	---	---	<1	---
OWS-01	8/26/2005	Primary	<1	<1	---	---	<1	---
OWS-01	2/2/2006	Primary	<1	<1	---	---	<1	---
OWS-01	8/1/2006	Primary	<1	<1	---	---	<1	---
OWS-01	2/22/2007	Primary	<1	<1	---	---	<1	---
OWS-01	8/30/2007	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWS-01	2/21/2008	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWS-01	8/5/2008	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWS-01	2/20/2009	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWS-01	8/11/2009	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWS-01	2/19/2010	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U
OWS-01	8/18/2010	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U
OWS-01	2/3/2011	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U
OWS-01	8/30/2011	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U
OWS-02	2/19/2002	Primary	<1	<1	---	---	<1	---
OWS-02	8/27/2002	Primary	<1	<1	---	---	<1	---
OWS-02	2/24/2003	Primary	<1	<1	---	---	<1	---
OWS-02	8/26/2003	Primary	<1	<1	---	---	<1	---
OWS-02	2/2/2004	Primary	<1	<1	---	---	<1	---
OWS-02	8/19/2004	Primary	<1	<1	---	---	<1	---
OWS-02	2/9/2005	Primary	<1	<1	---	---	<1	---
OWS-02	8/26/2005	Primary	<1	<1	---	---	<1	---
OWS-02	2/2/2006	Primary	<1	<1	---	---	<1	---
OWS-02	8/1/2006	Primary	<1	<1	---	---	<1	---
OWS-02	2/22/2007	Primary	<1	<1	---	---	<1	---
OWS-02	8/30/2007	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWS-02	2/21/2008	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWS-02	8/5/2008	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWS-02	2/20/2009	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWS-02	8/11/2009	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWS-02	2/19/2010	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U
OWS-02	8/18/2010	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U
OWS-02	2/3/2011	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U
OWS-02	8/30/2011	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U

Table C-3
ILF Volatile Organics Analyses
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Trichloroethene Total (ug/L)	Trichloro fluoromethane Total (ug/L)	1,2,3-Trichloro propane Total (ug/L)	Vinyl acetate Total (ug/L)	Vinyl chloride Total (ug/L)	Xylene (total) Total (ug/L)
2L Groundwater Class GA Stds			3	2000	0.005	---	0.03	500
NC-2L-GW IMAC			---	---	---	88	---	---
NC-GWP Stds			---	---	---	88	---	---
OWS-03	2/19/2002	Primary	<1	<1	---	---	<1	---
OWS-03	8/27/2002	Primary	<1	<1	---	---	<1	---
OWS-03	2/24/2003	Primary	<1	<1	---	---	<1	---
OWS-03	8/26/2003	Primary	<1	<1	---	---	<1	---
OWS-03	2/2/2004	Primary	<1	<1	---	---	<1	---
OWS-03	8/19/2004	Primary	<1	<1	---	---	<1	---
OWS-03	2/9/2005	Primary	<1	<1	---	---	<1	---
OWS-03	8/26/2005	Primary	<1	<1	---	---	<1	---
OWS-03	2/2/2006	Primary	<1	<1	---	---	<1	---
OWS-03	8/1/2006	Primary	<1	<1	---	---	<1	---
OWS-03	2/22/2007	Primary	<1	<1	---	---	<1	---
OWS-03	8/30/2007	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWS-03	2/21/2008	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWS-03	8/5/2008	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWS-03	2/20/2009	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWS-03	8/11/2009	Primary	<0.13U	<0.13U	<0.06U	<0.20U	<0.34U	<0.48U
OWS-03	2/19/2010	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U
OWS-03	8/18/2010	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U
OWS-03	2/3/2011	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U
OWS-03	8/30/2011	Primary	<0.23U	<0.24U	<0.43U	<0.20U	<0.63U	<0.68U

APPENDIX D

ILF TIME-SERIES PLOTS

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

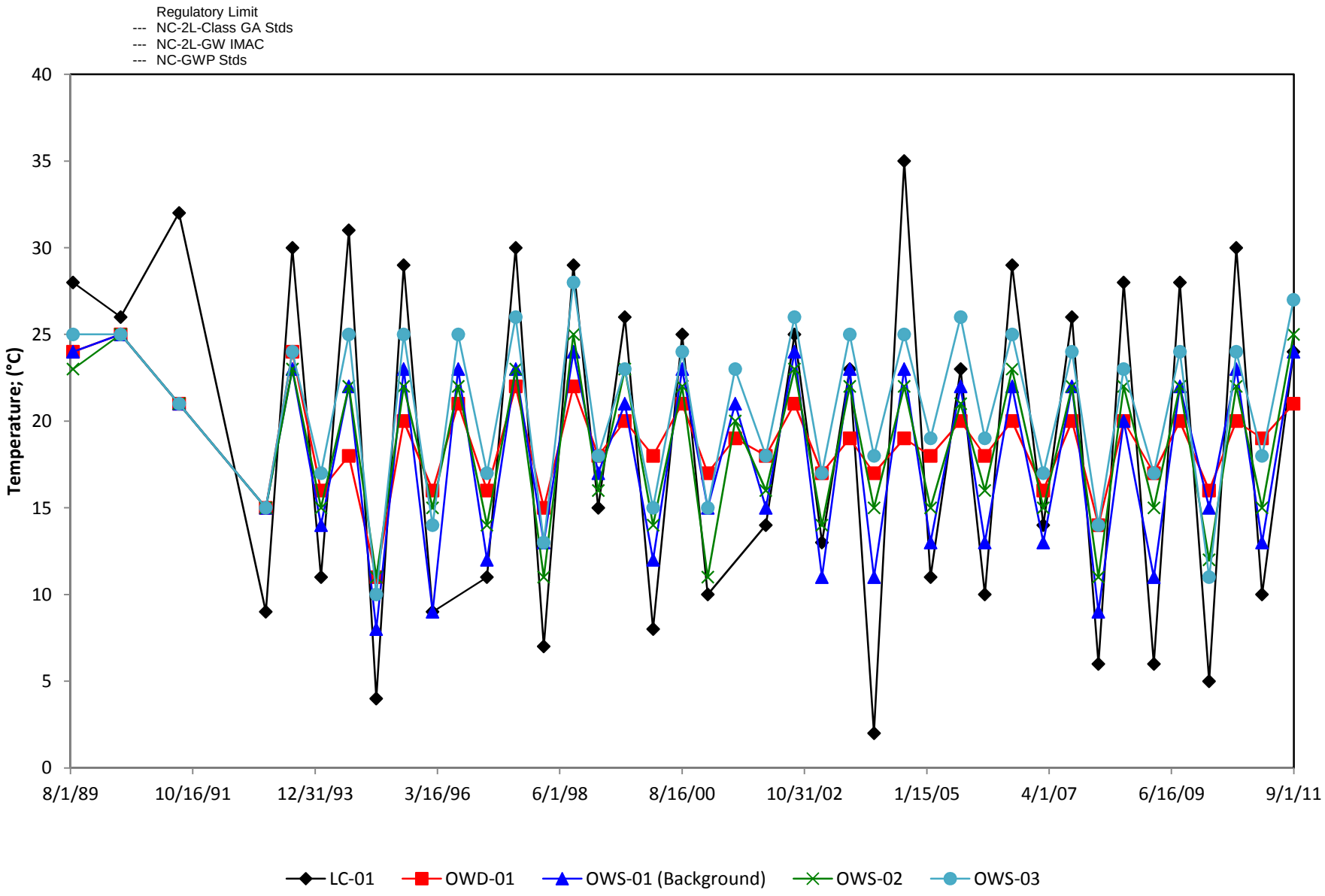

Figure D-1: Temperature; (°C)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

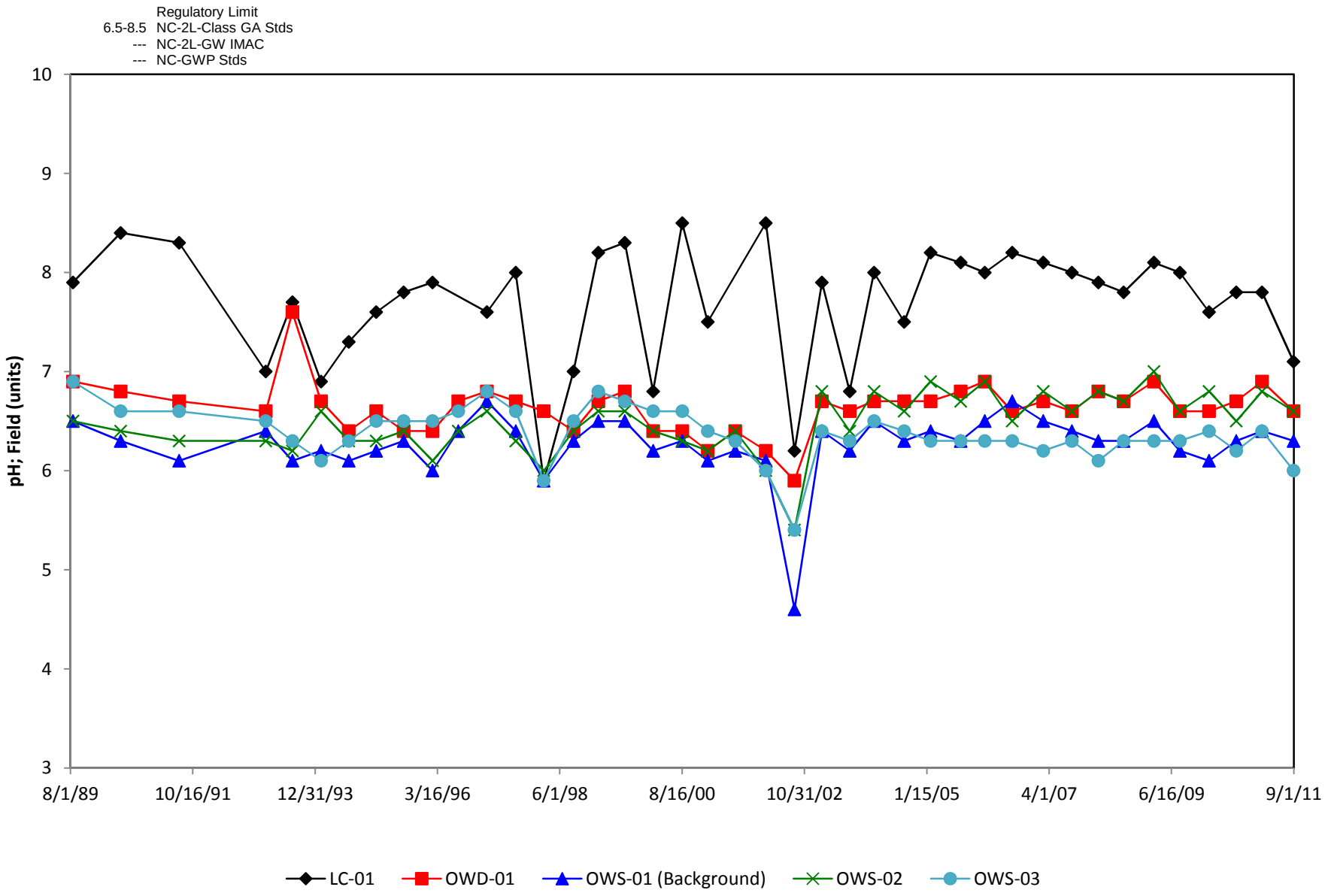

Figure D-2: pH; Field (units)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

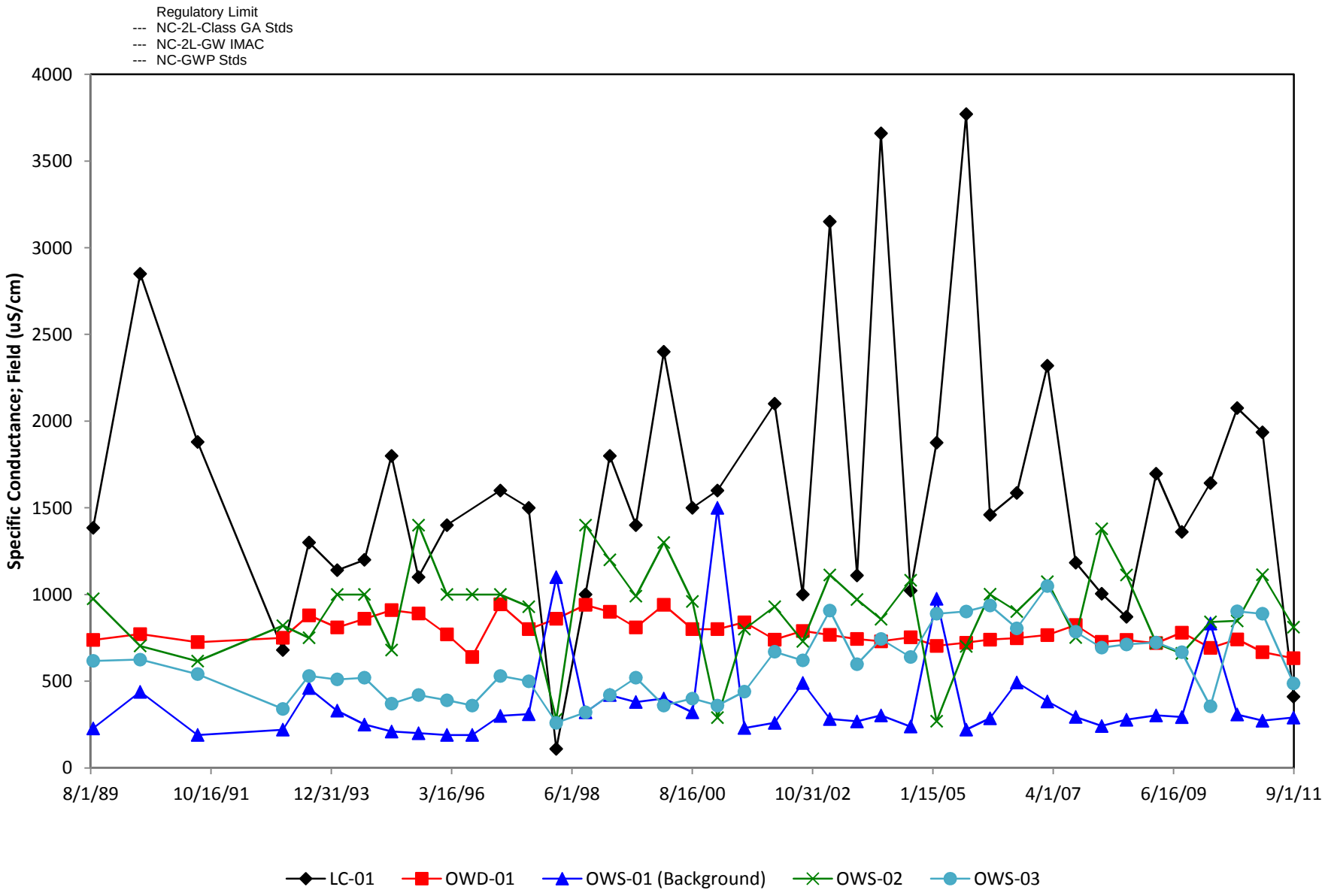

Figure D-3: Specific Conductance; Field (uS/cm)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

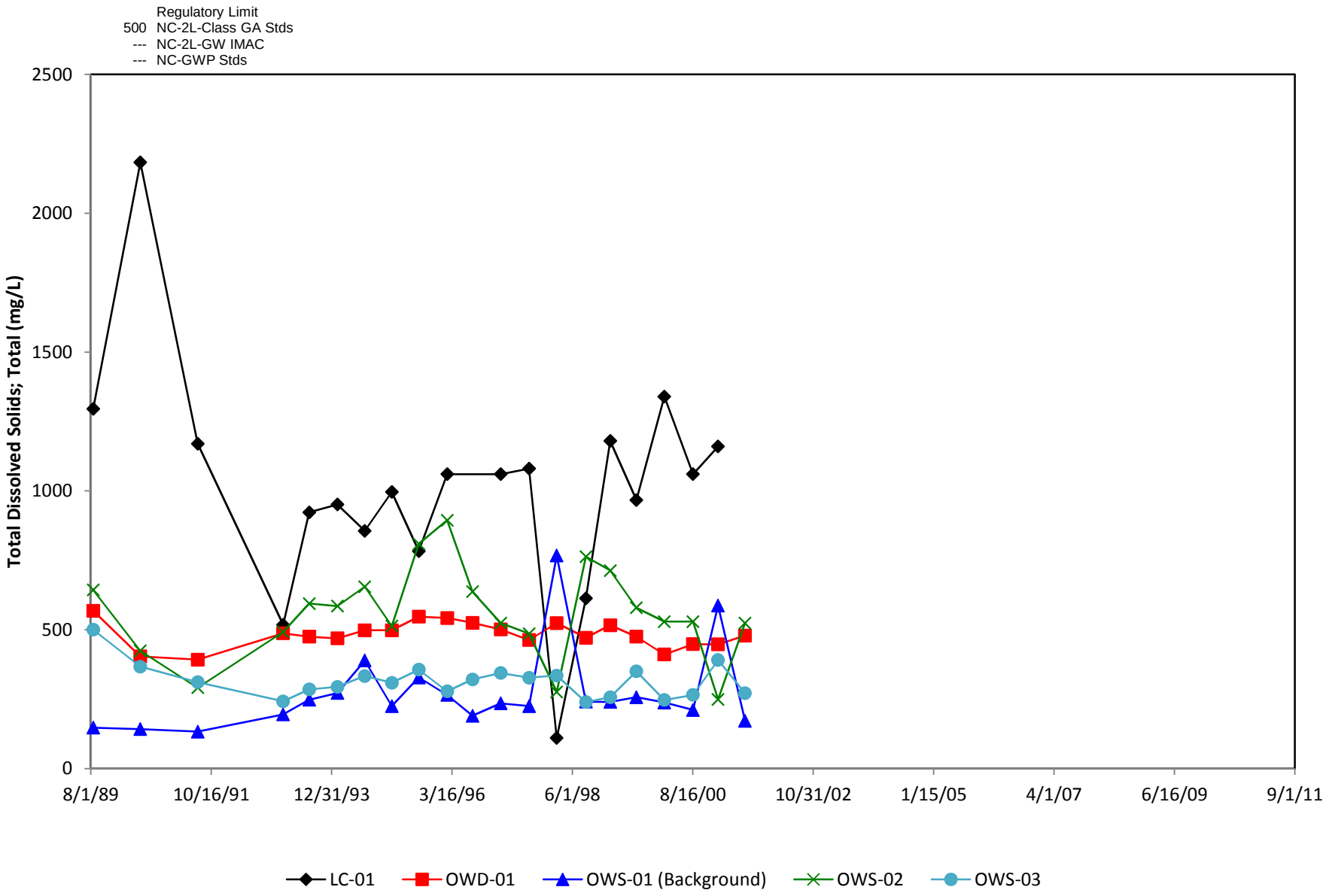

Figure D-4: Total Dissolved Solids; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

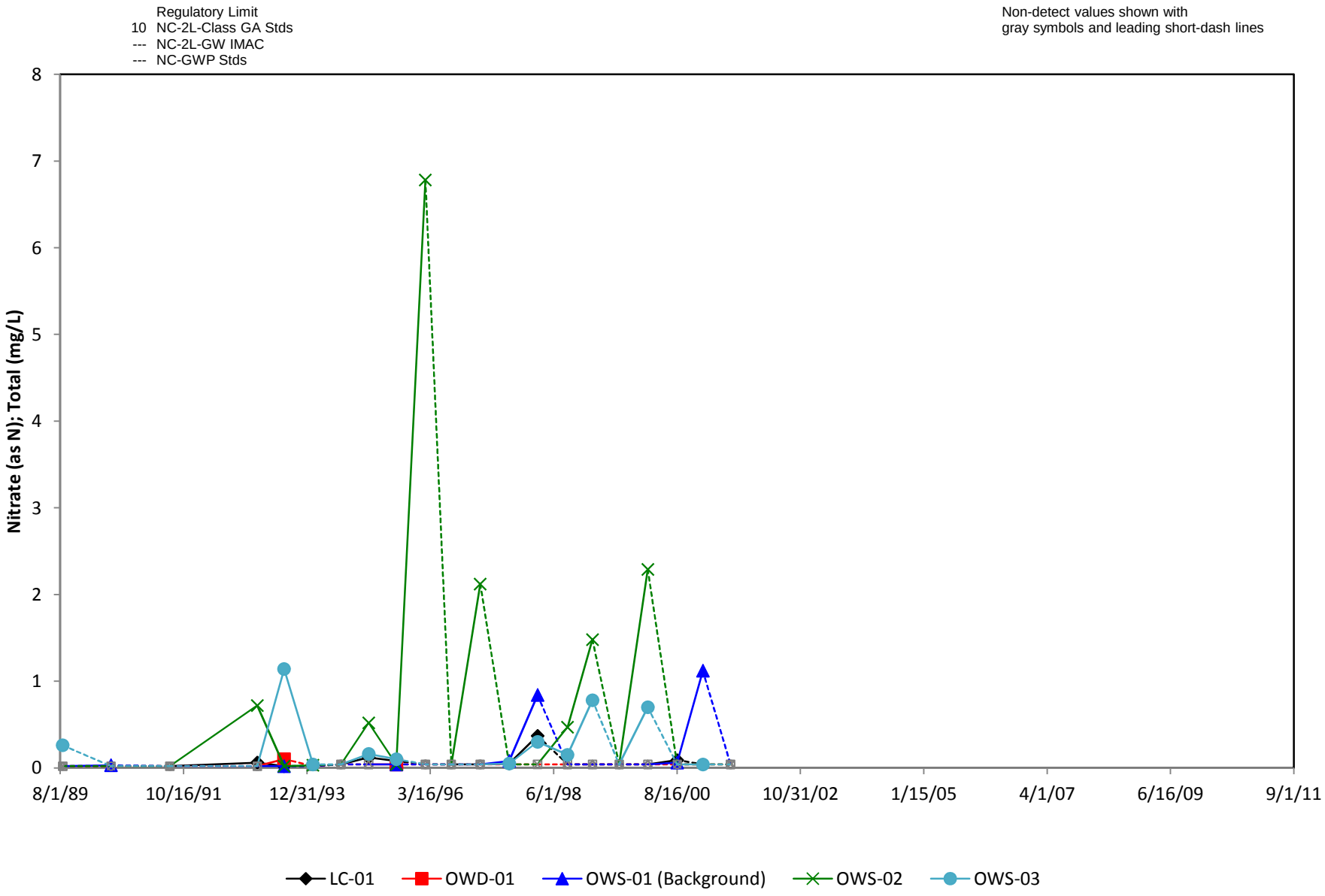

Figure D-5: Nitrate (as N); Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

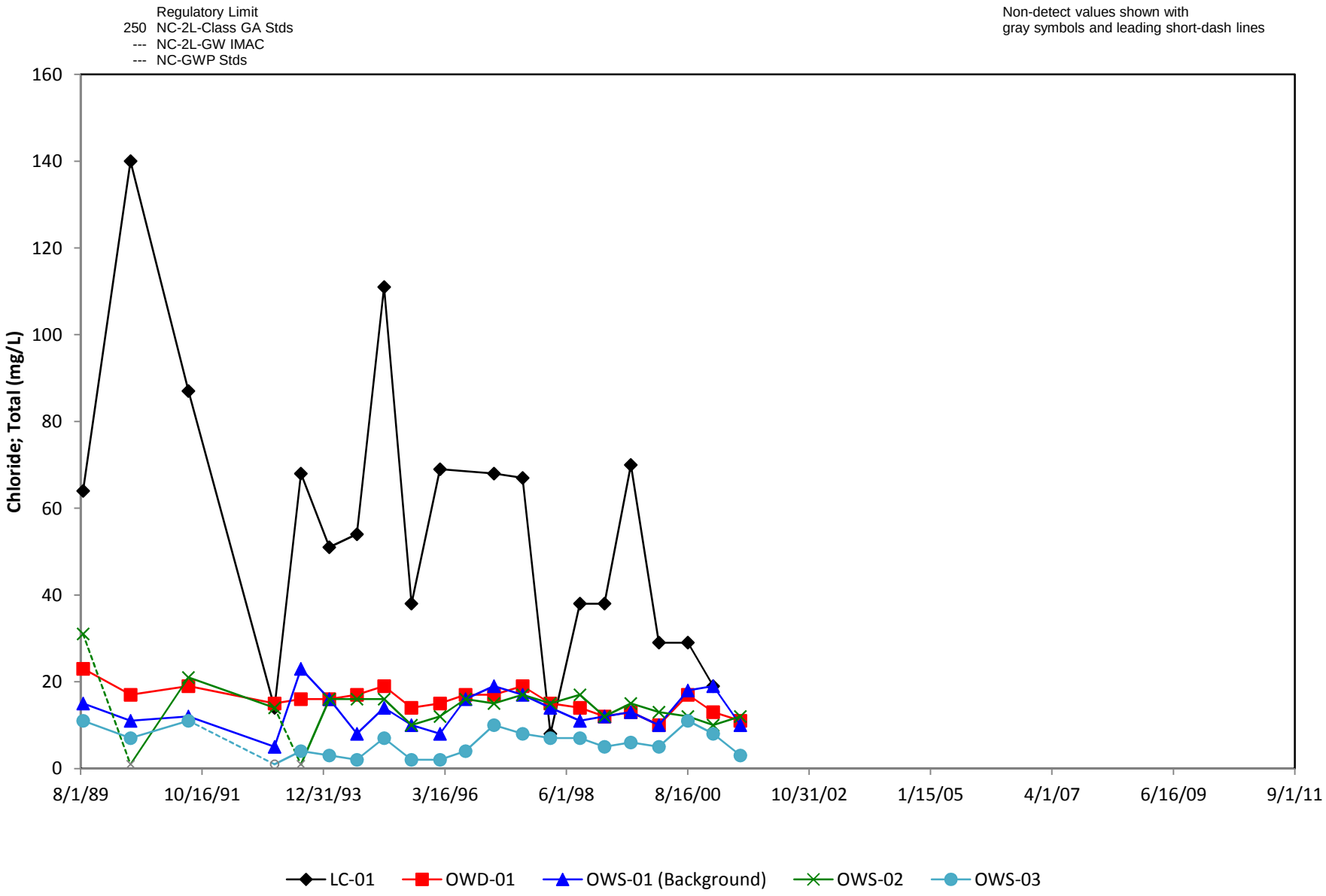

Figure D-6: Chloride; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

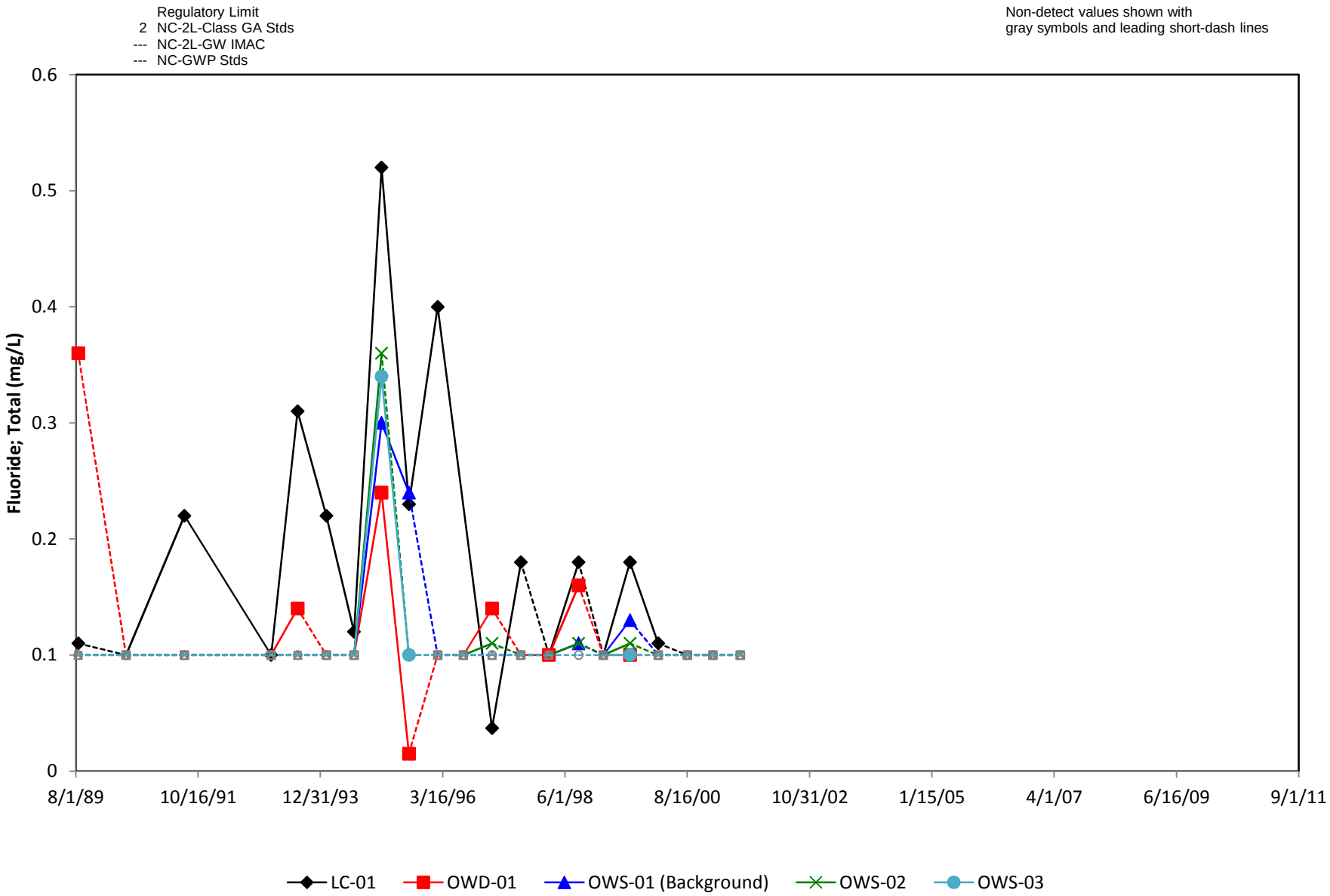

Figure D-7: Fluoride; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

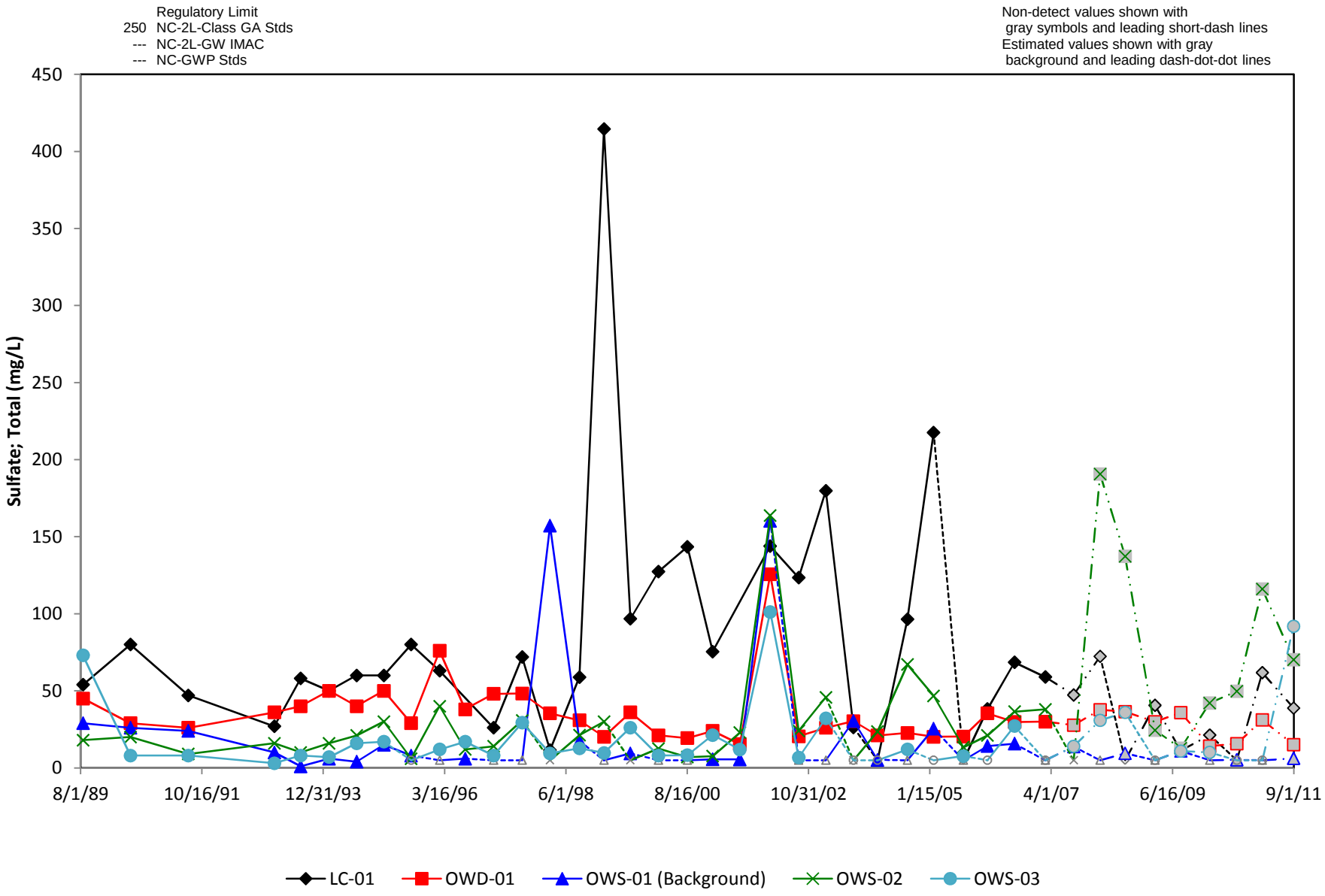

Figure D-8: Sulfate; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

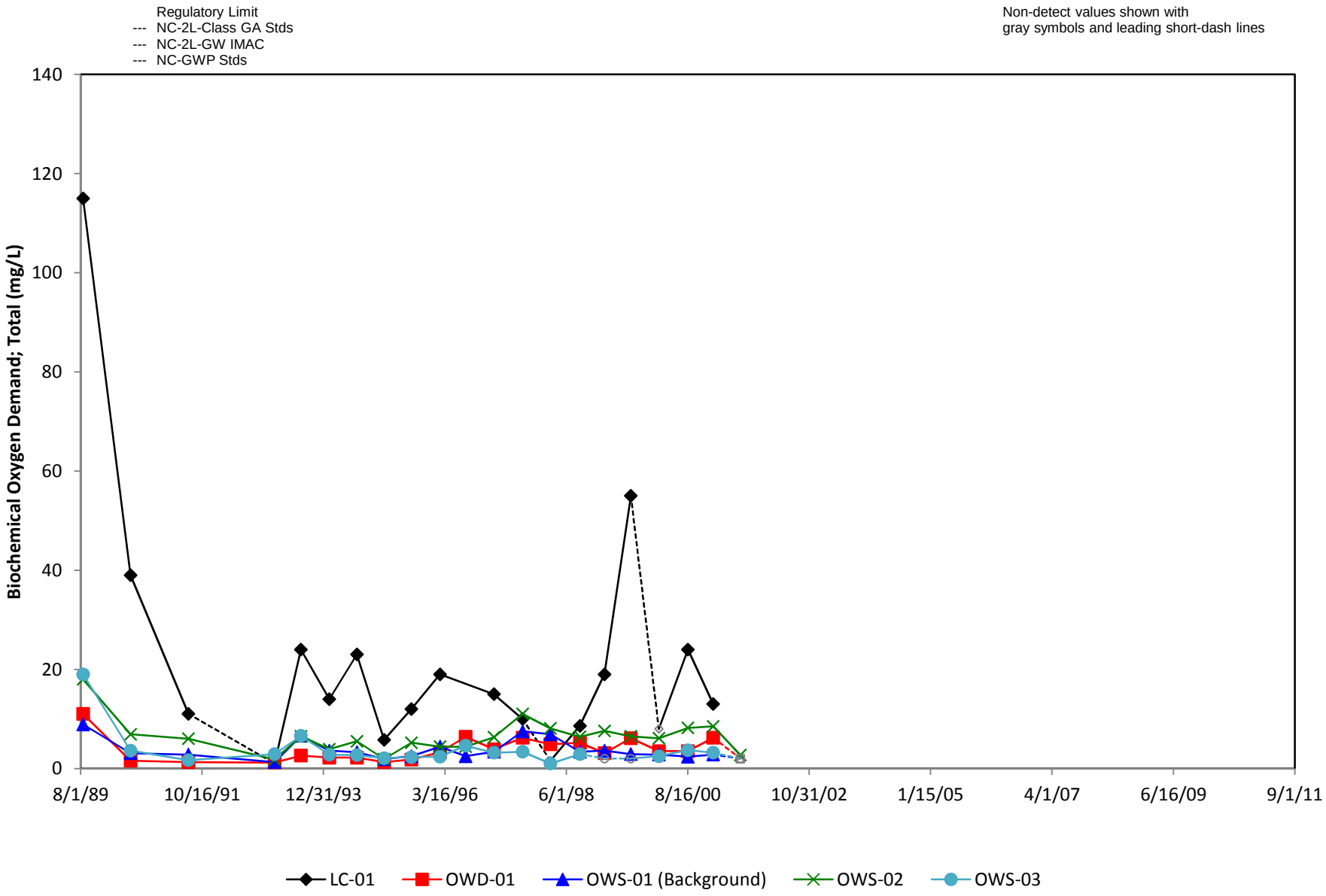

Figure D-9: Biochemical Oxygen Demand; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

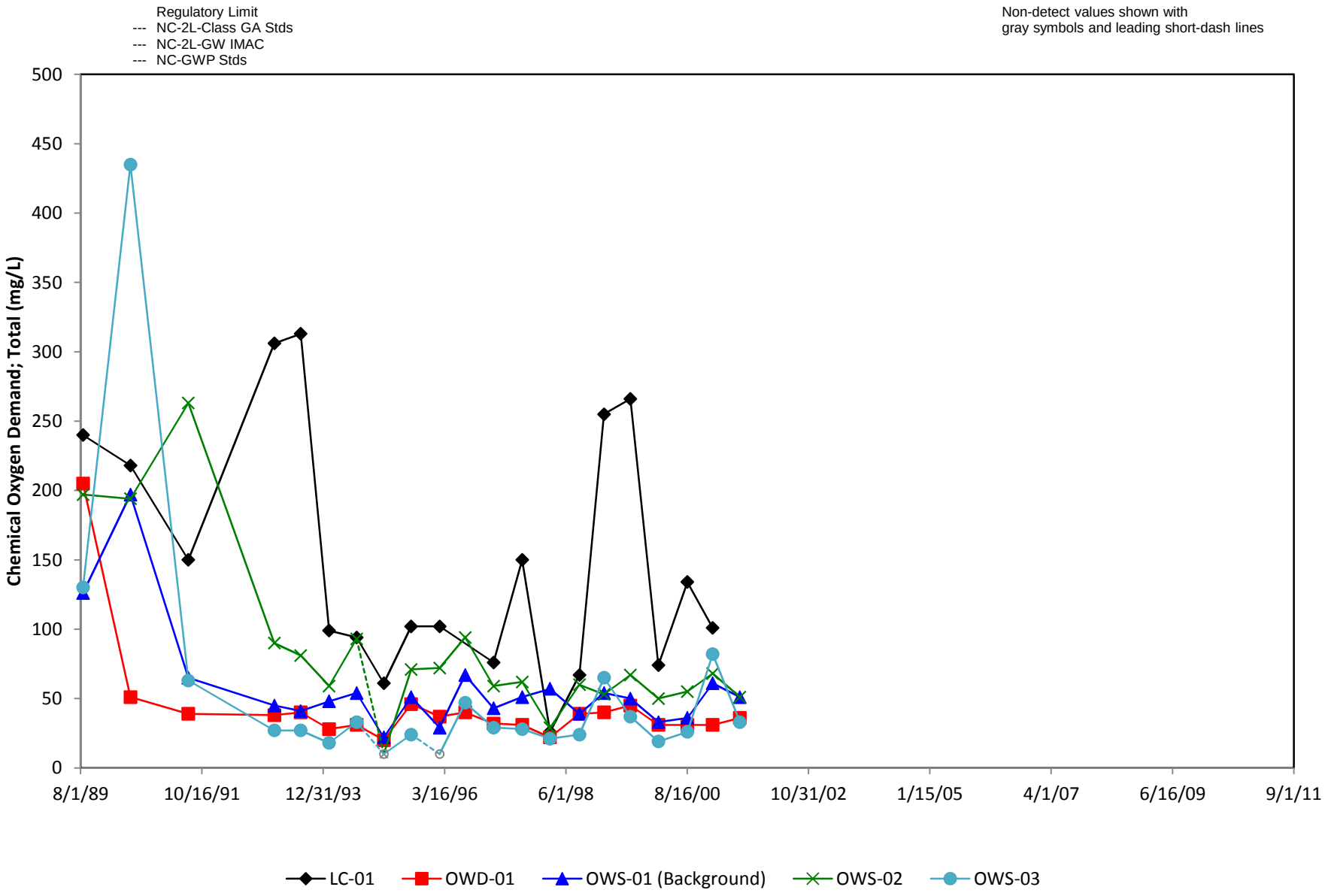

Figure D-10: Chemical Oxygen Demand; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

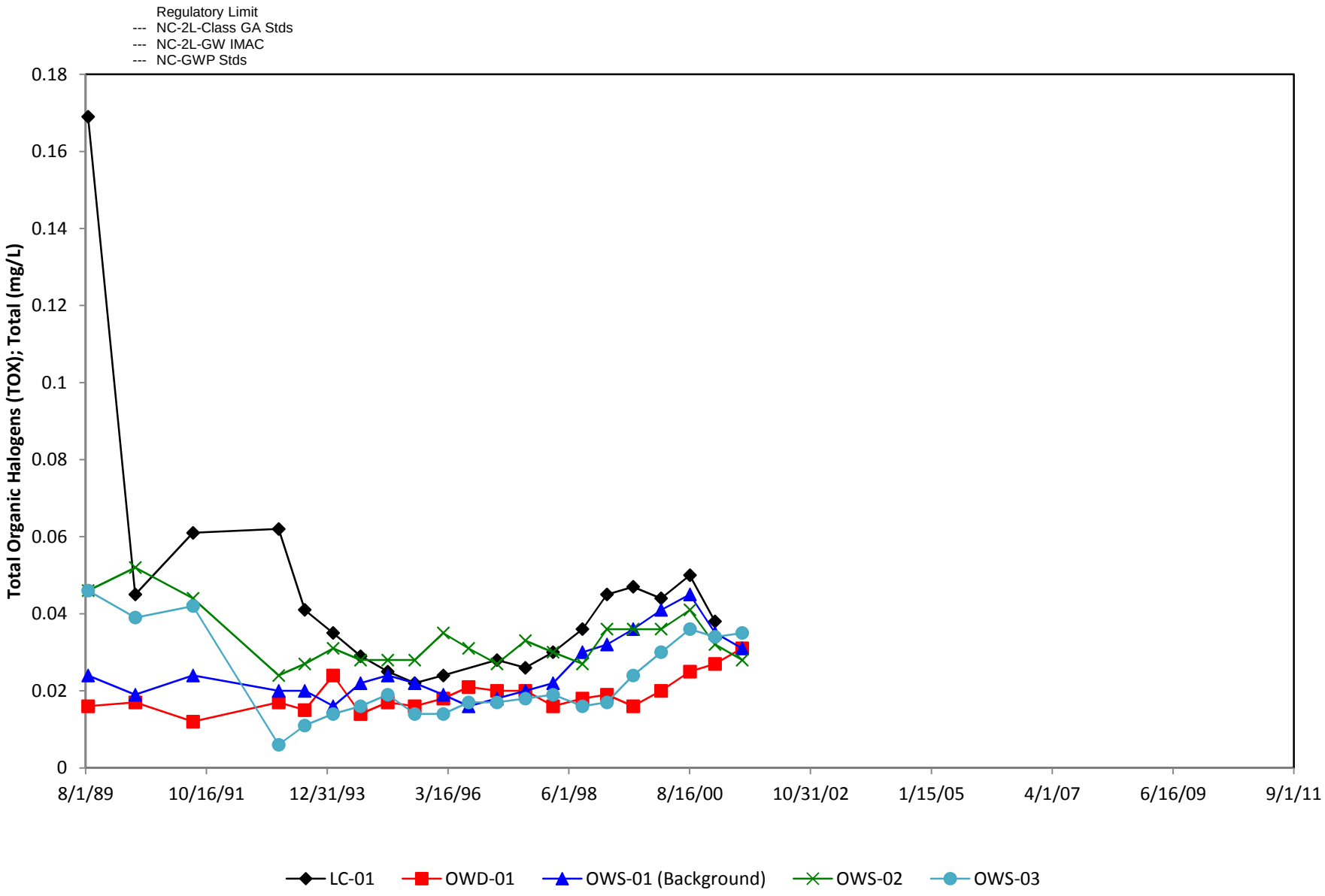

Figure D-11: Total Organic Halogens (TOX); Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

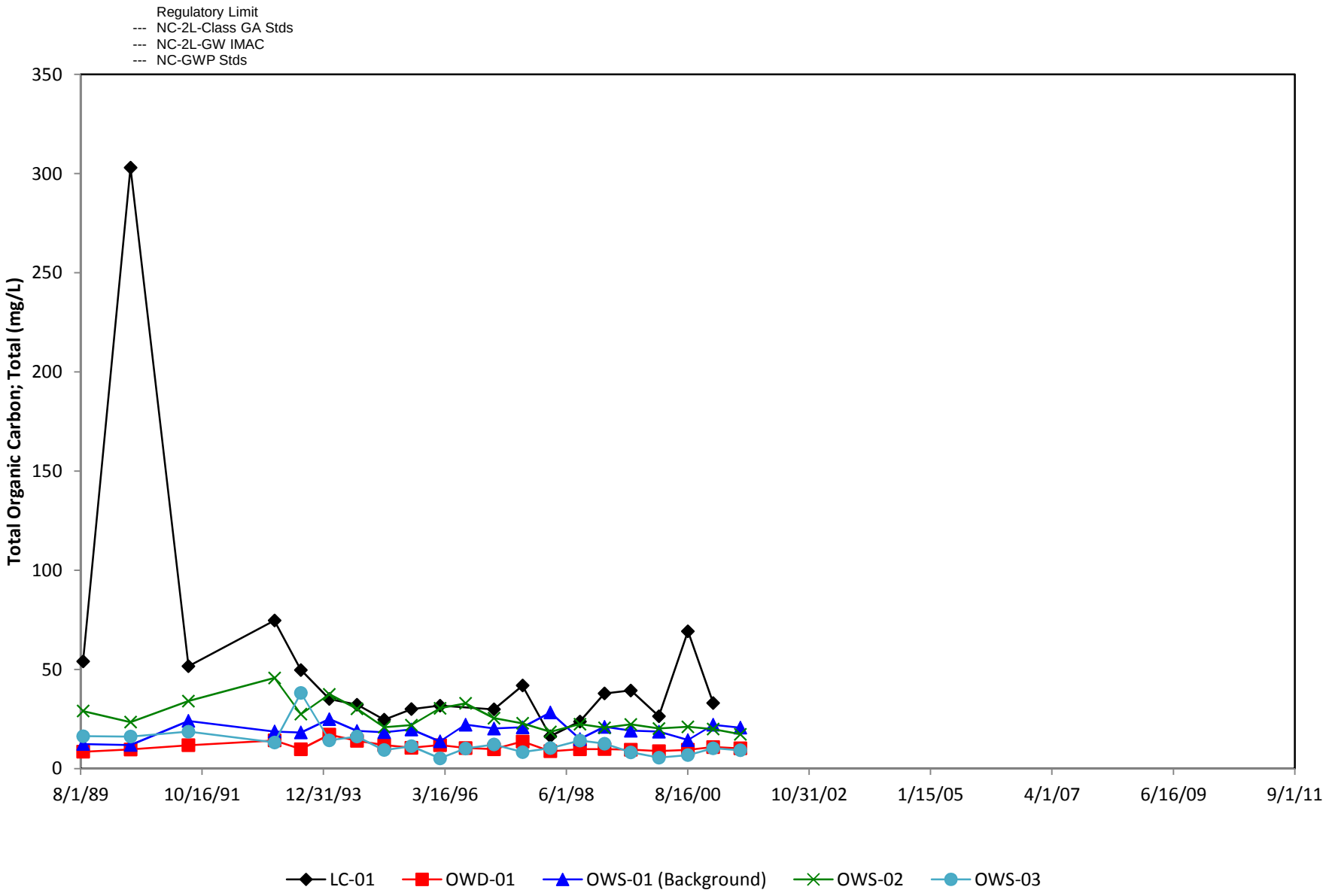

Figure D-12: Total Organic Carbon; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

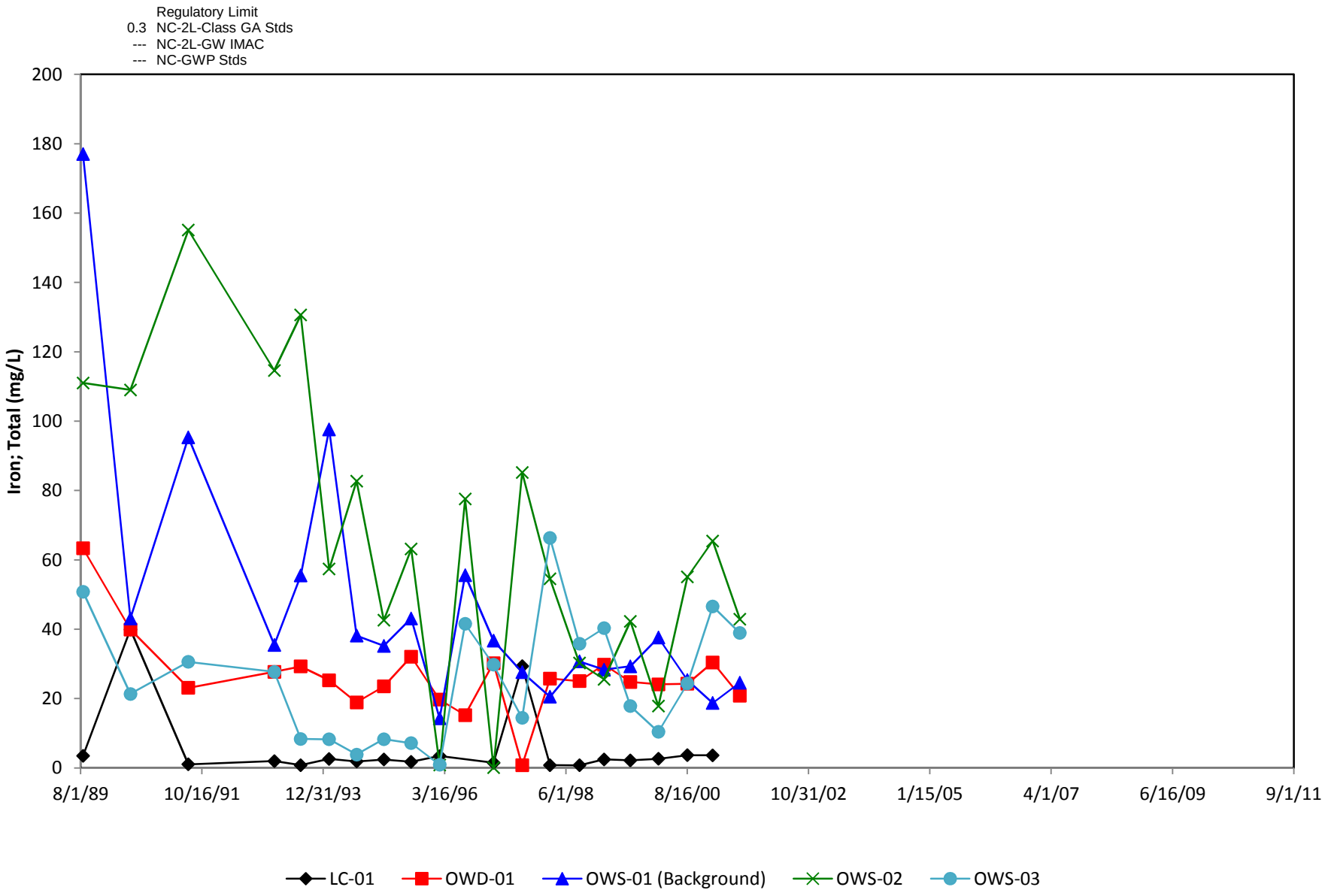

Figure D-13: Iron; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

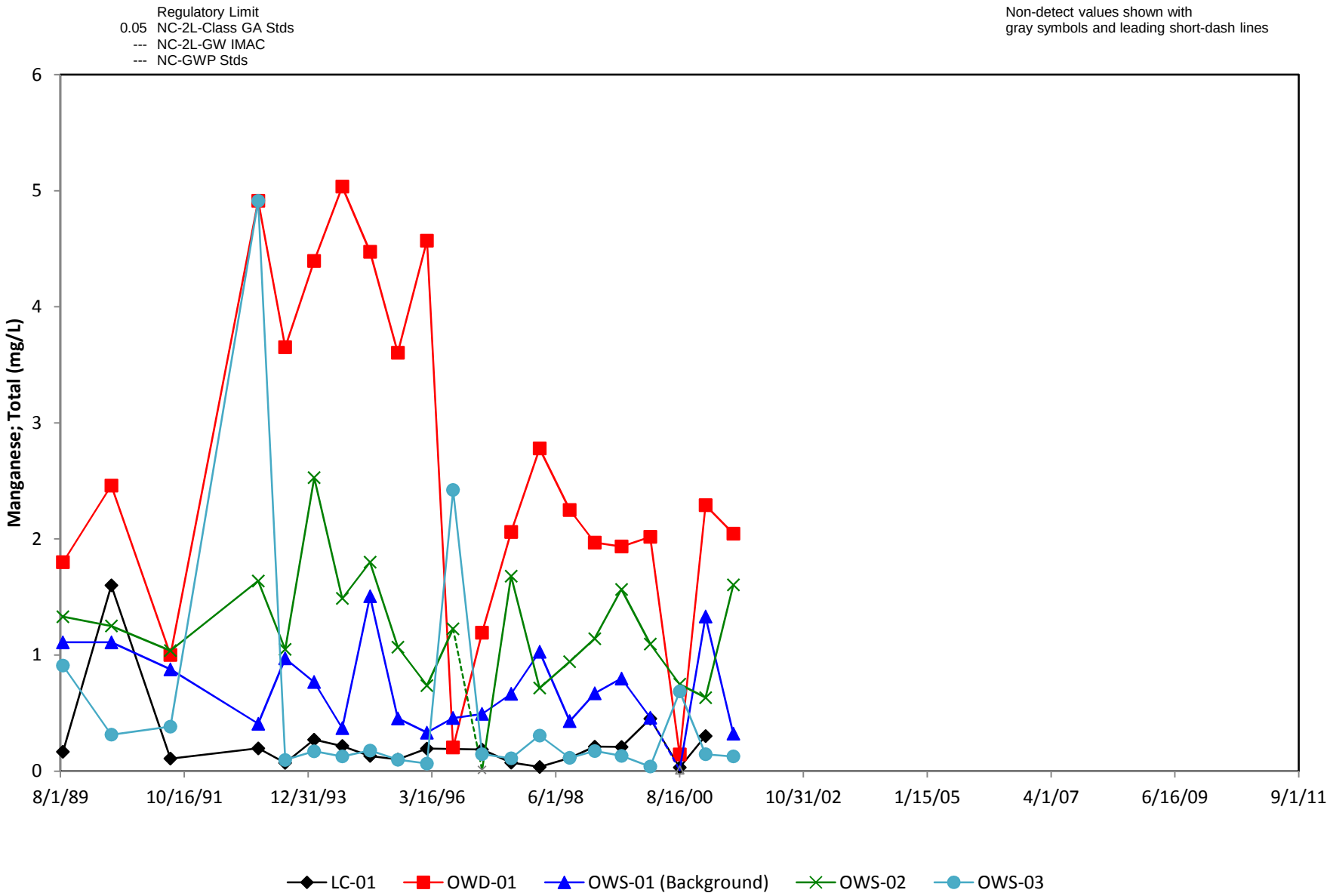

Figure D-14: Manganese; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

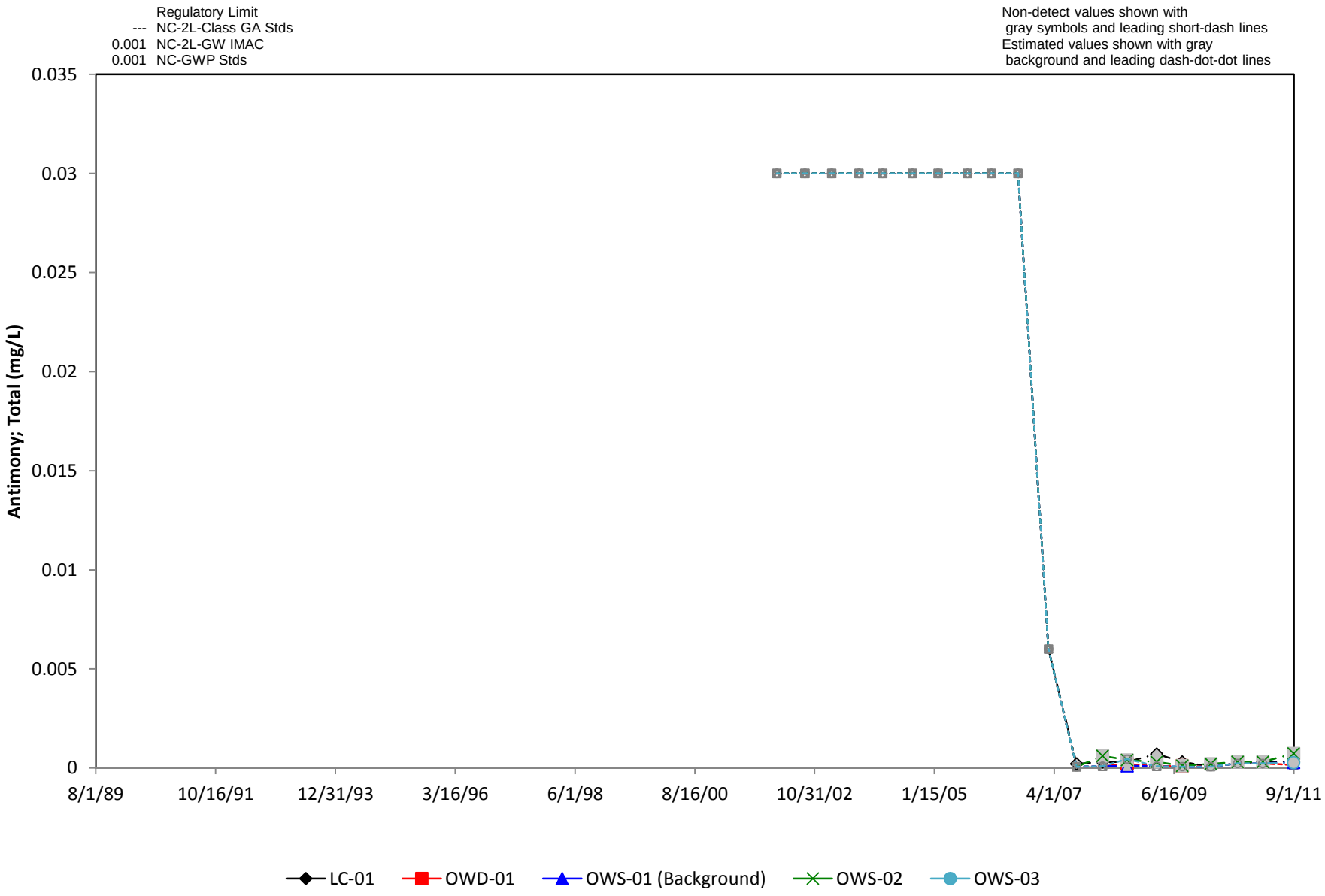

Figure D-15: Antimony; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

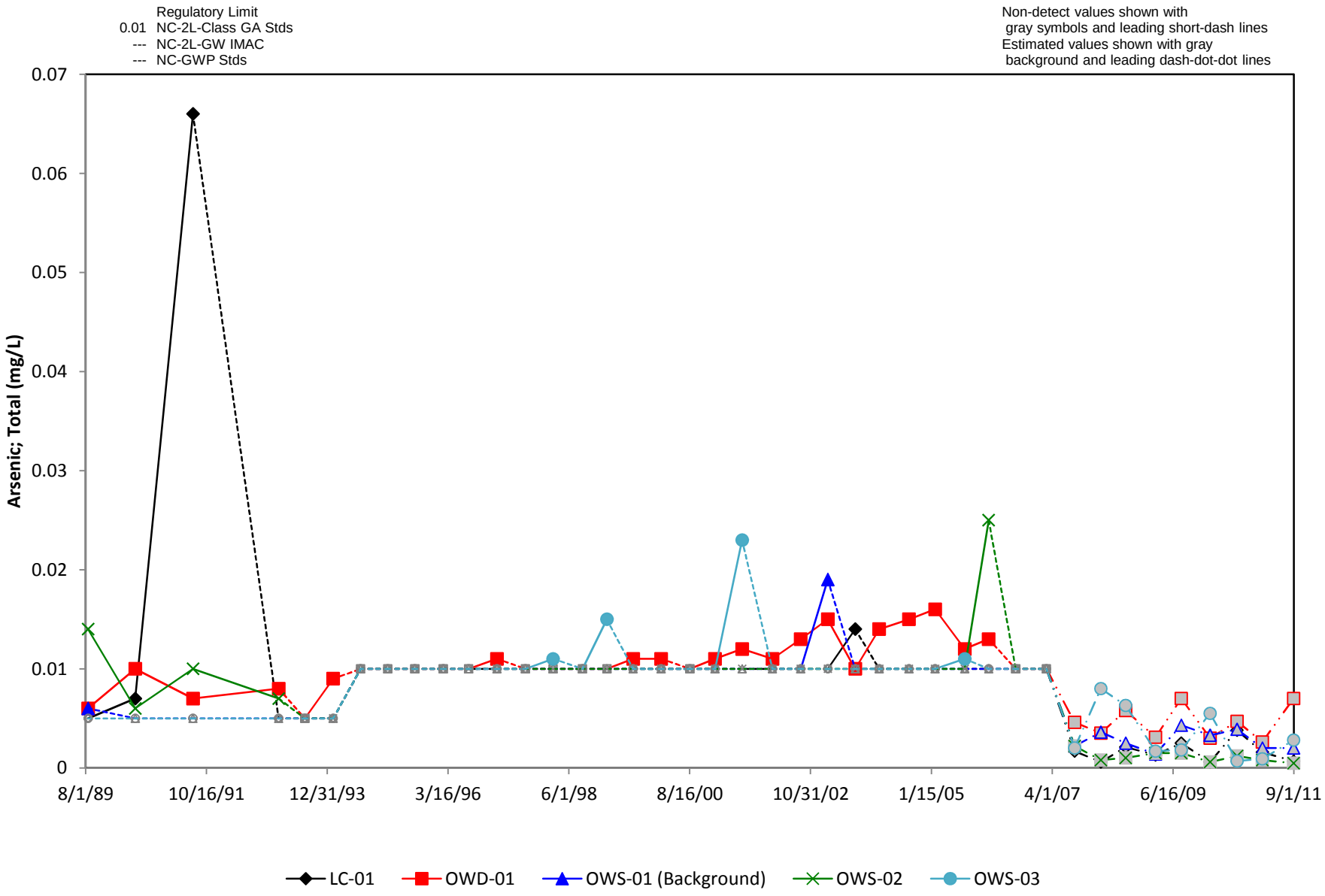

Figure D-16: Arsenic; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

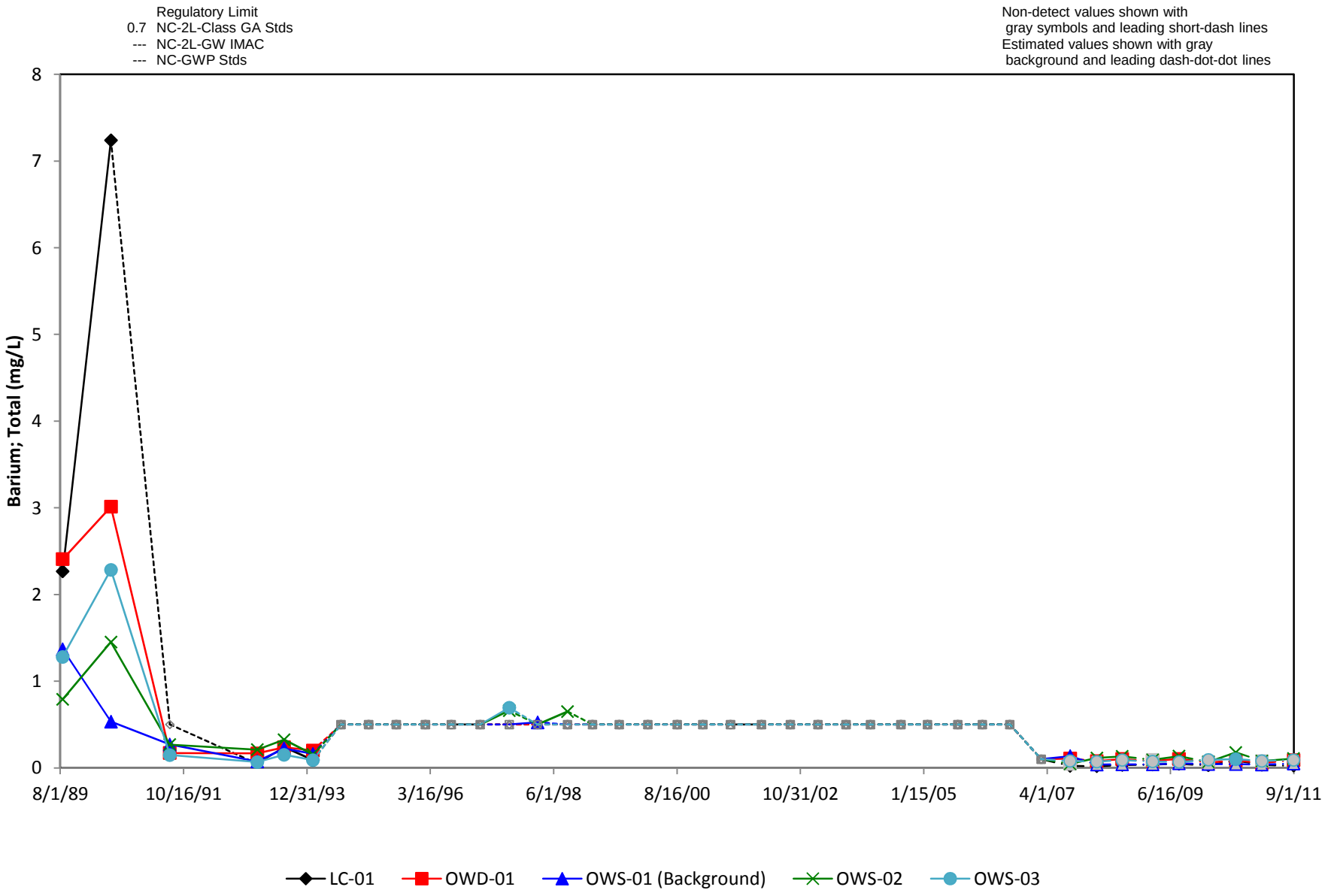

Figure D-17: Barium; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

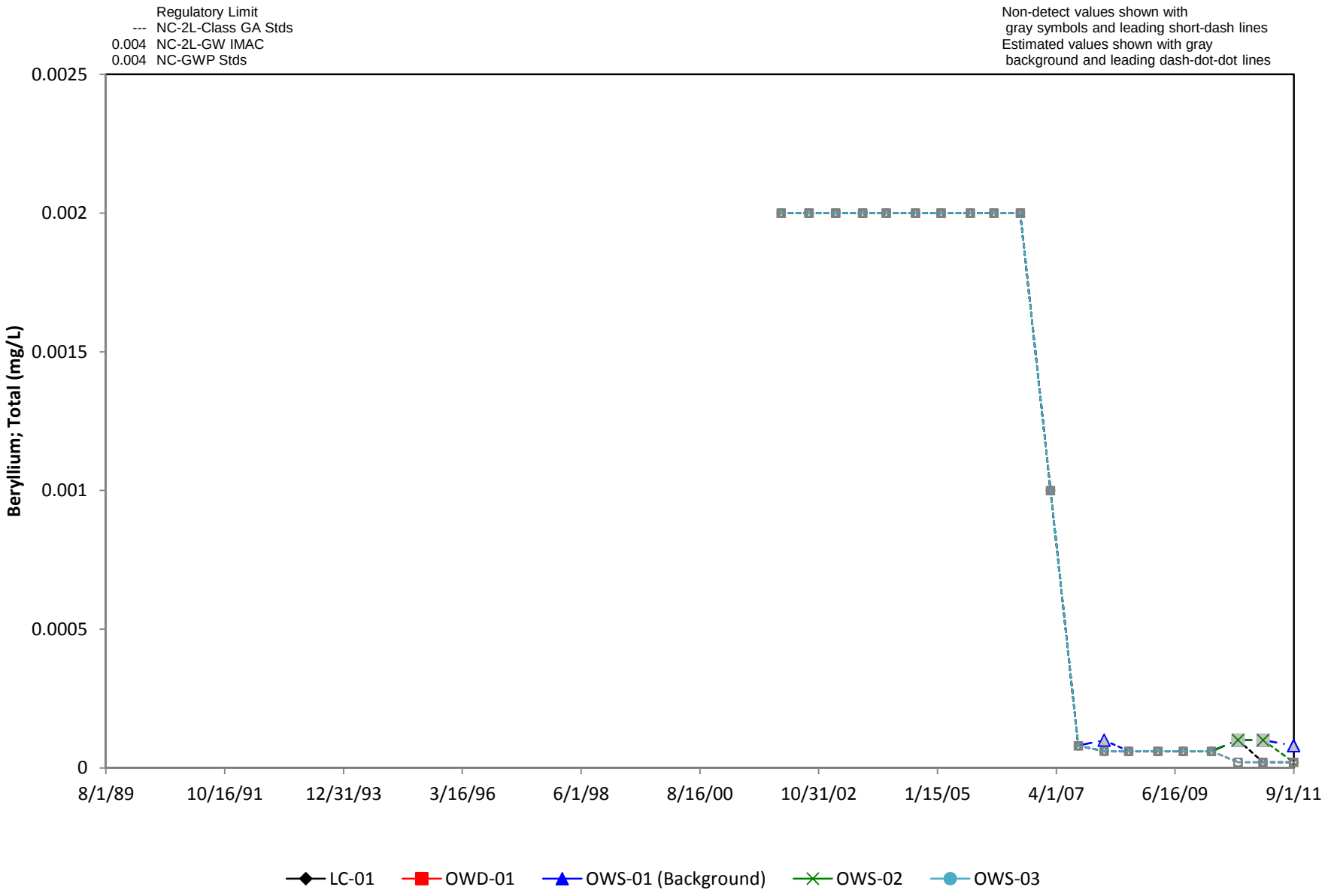

Figure D-18: Beryllium; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

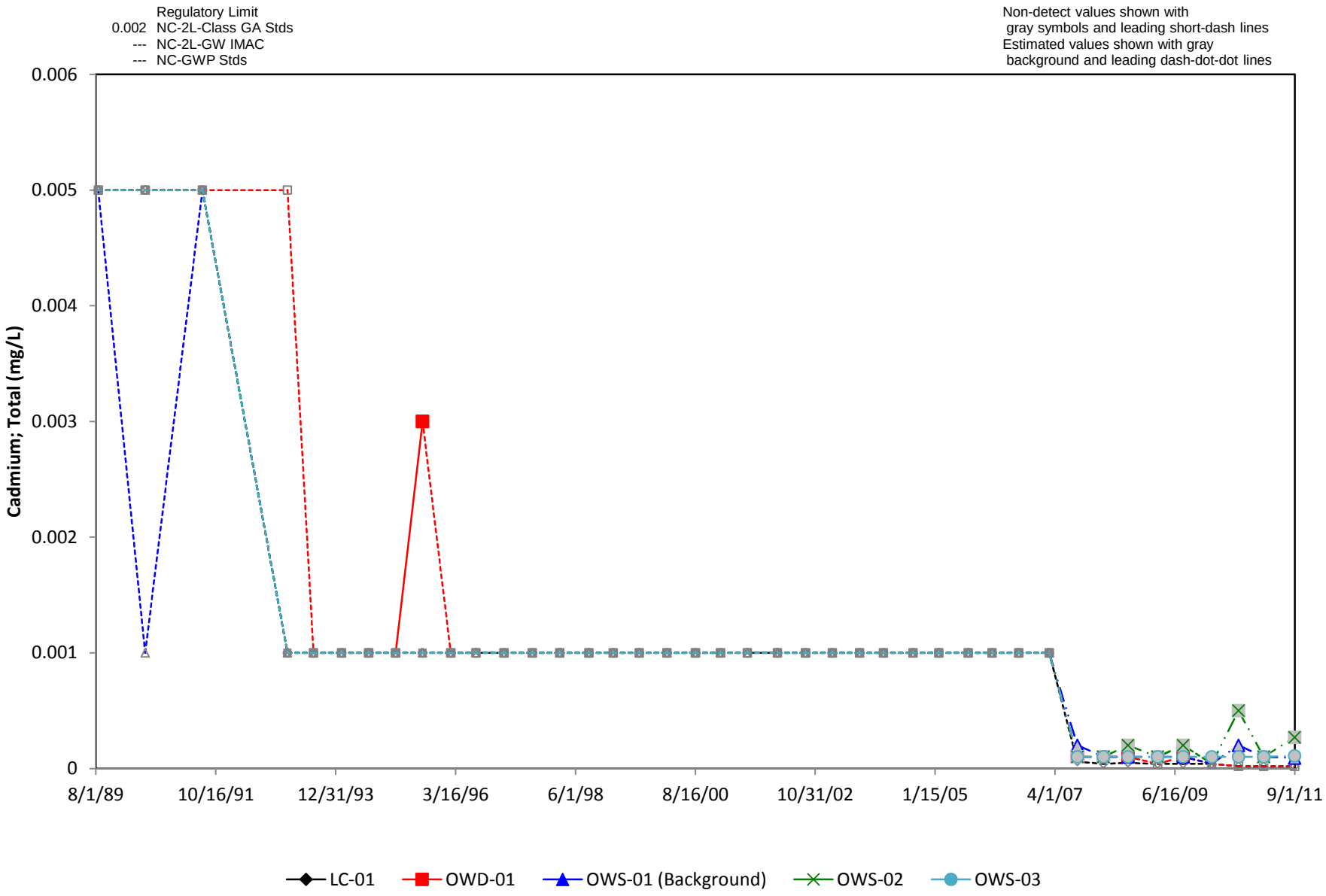

Figure D-19: Cadmium; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

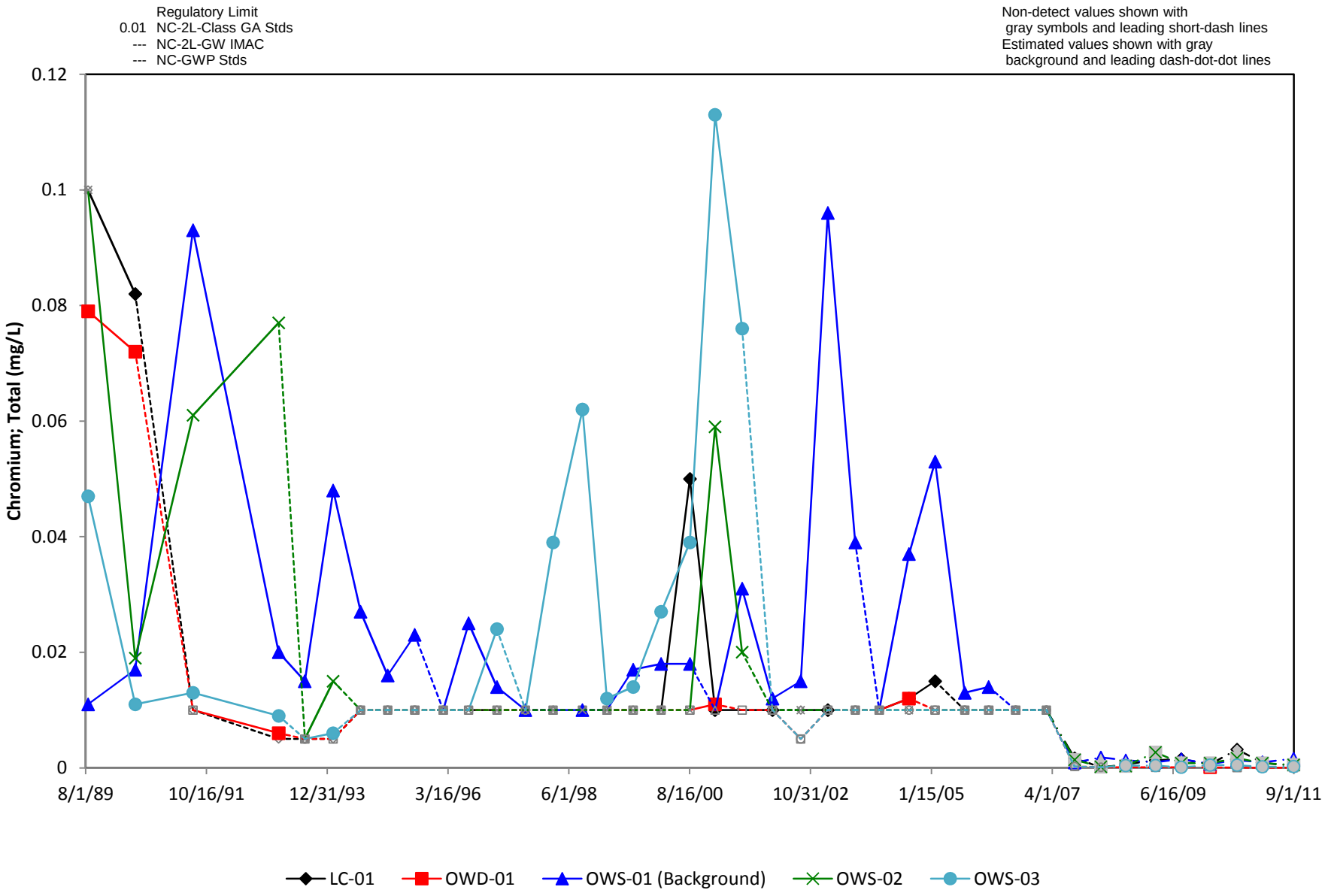

Figure D-20: Chromium; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

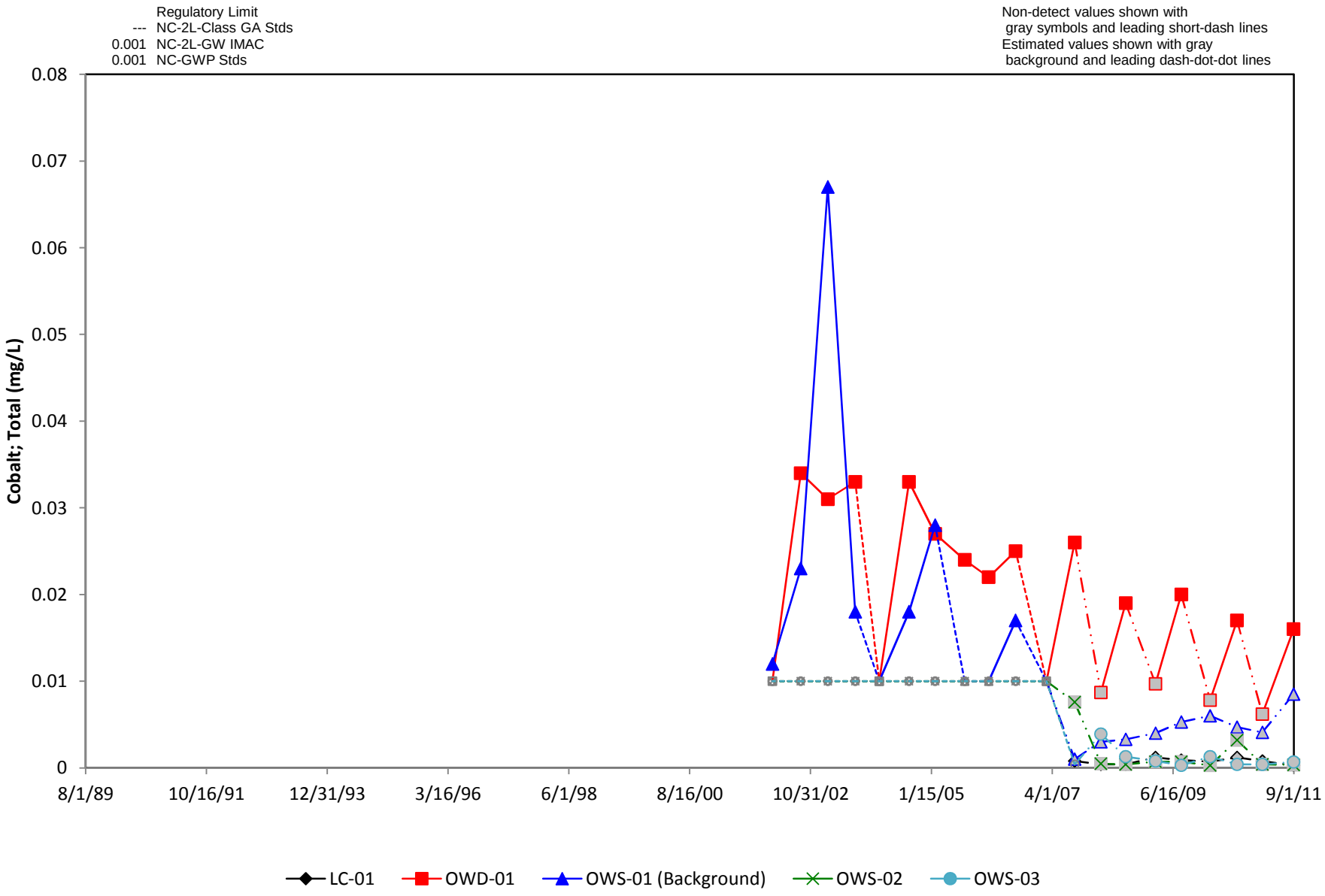

Figure D-21: Cobalt; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

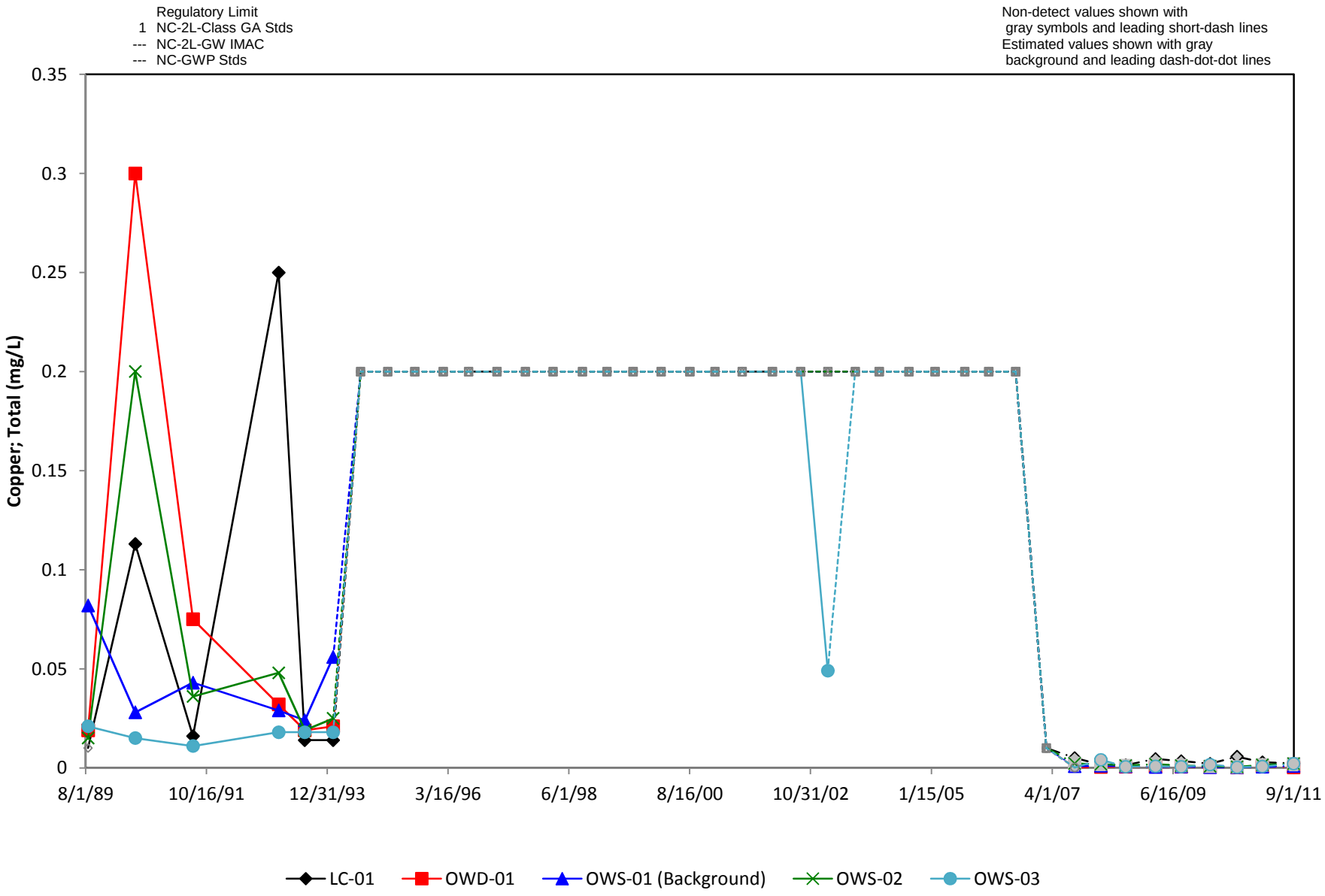

Figure D-22: Copper; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

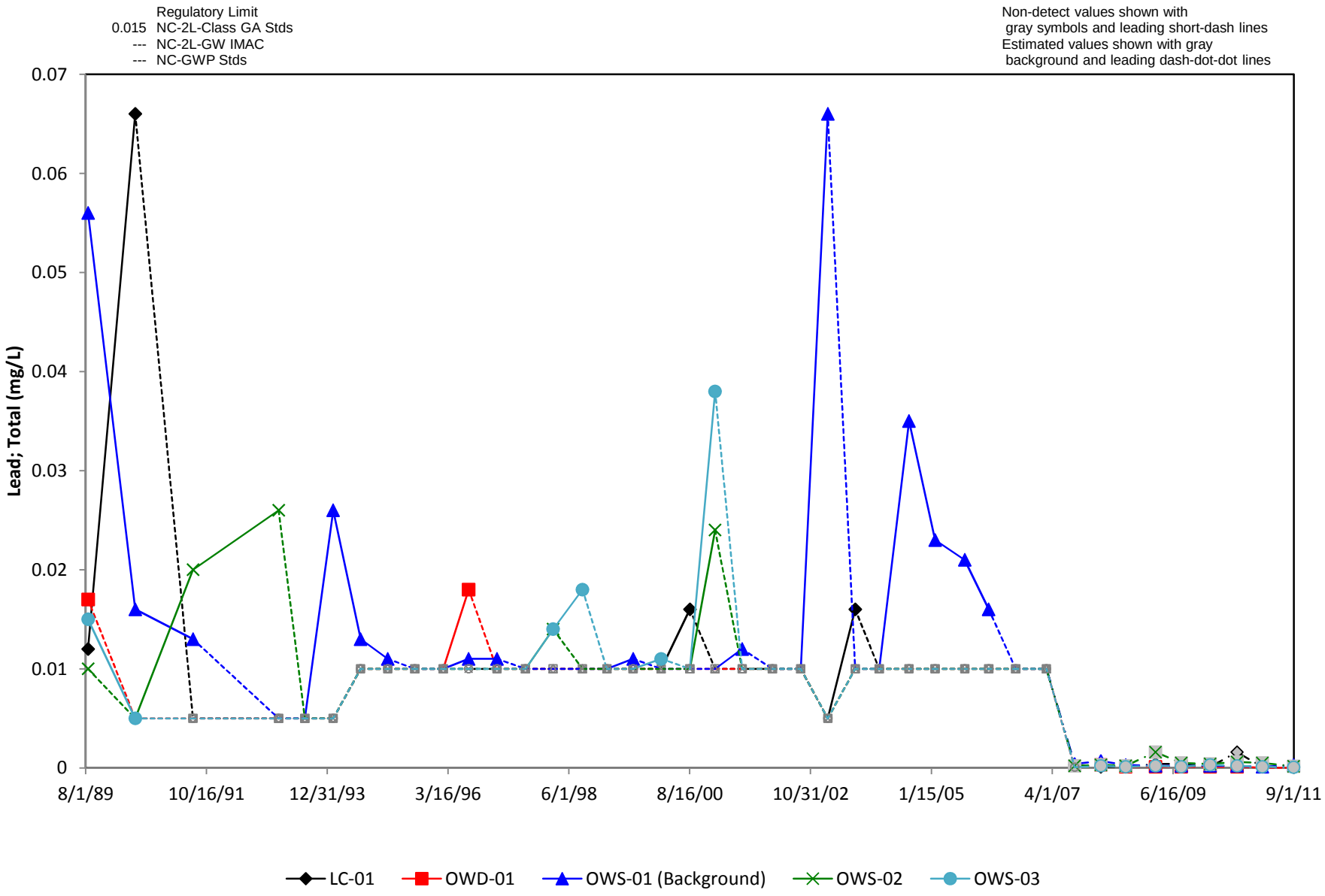

Figure D-23: Lead; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

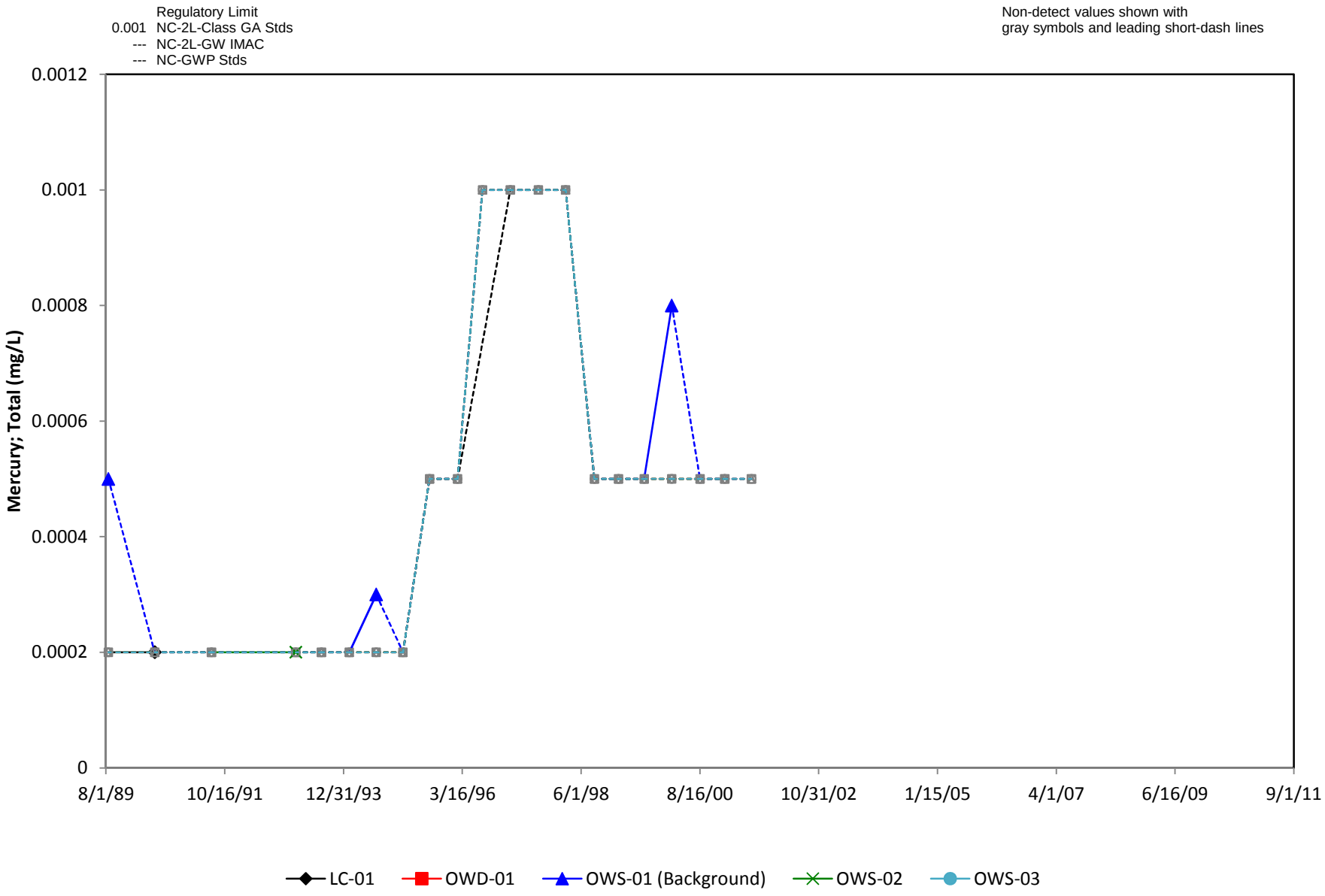

Figure D-24: Mercury; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

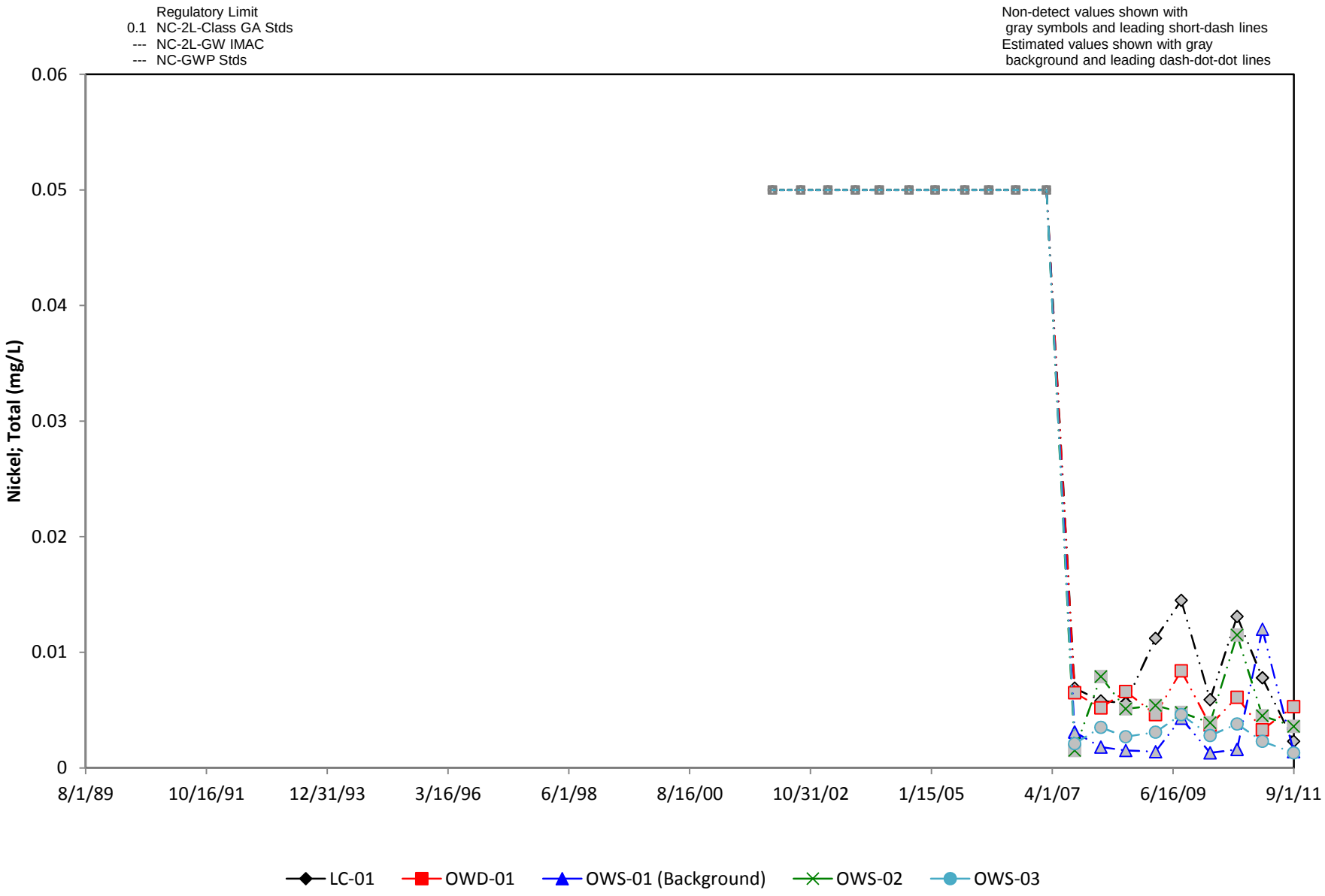

Figure D-25: Nickel; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

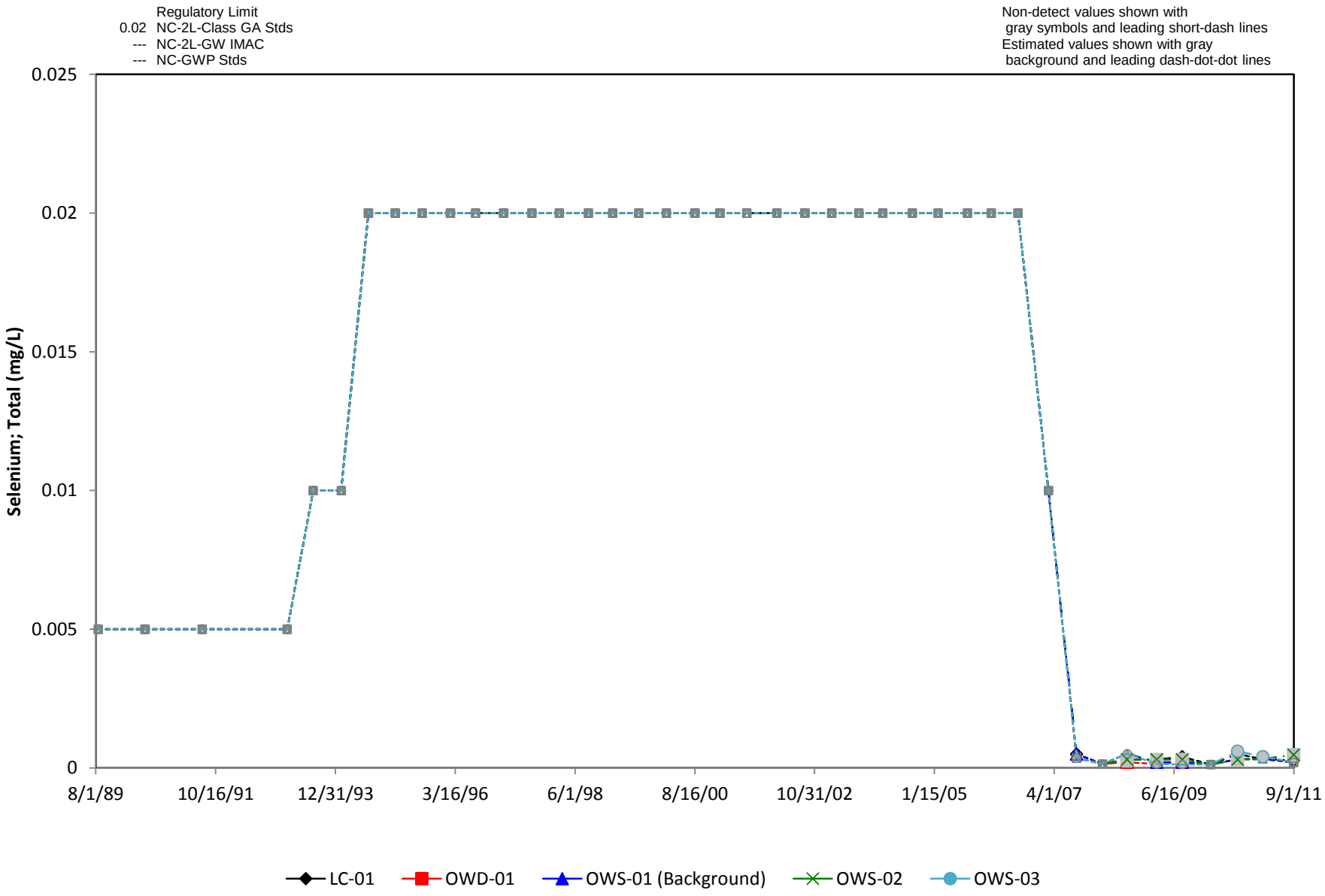

Figure D-26: Selenium; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

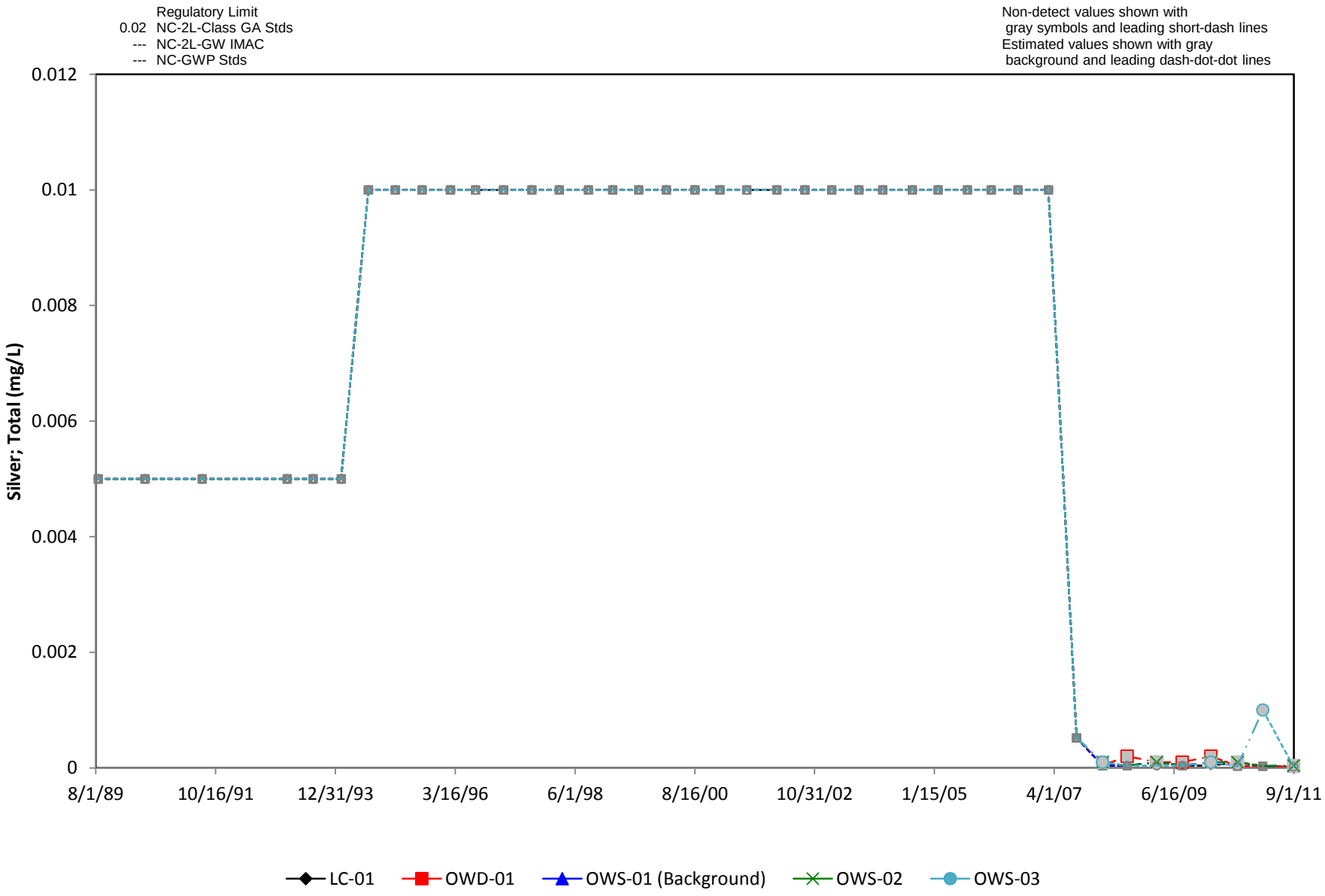

Figure D-27: Silver; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

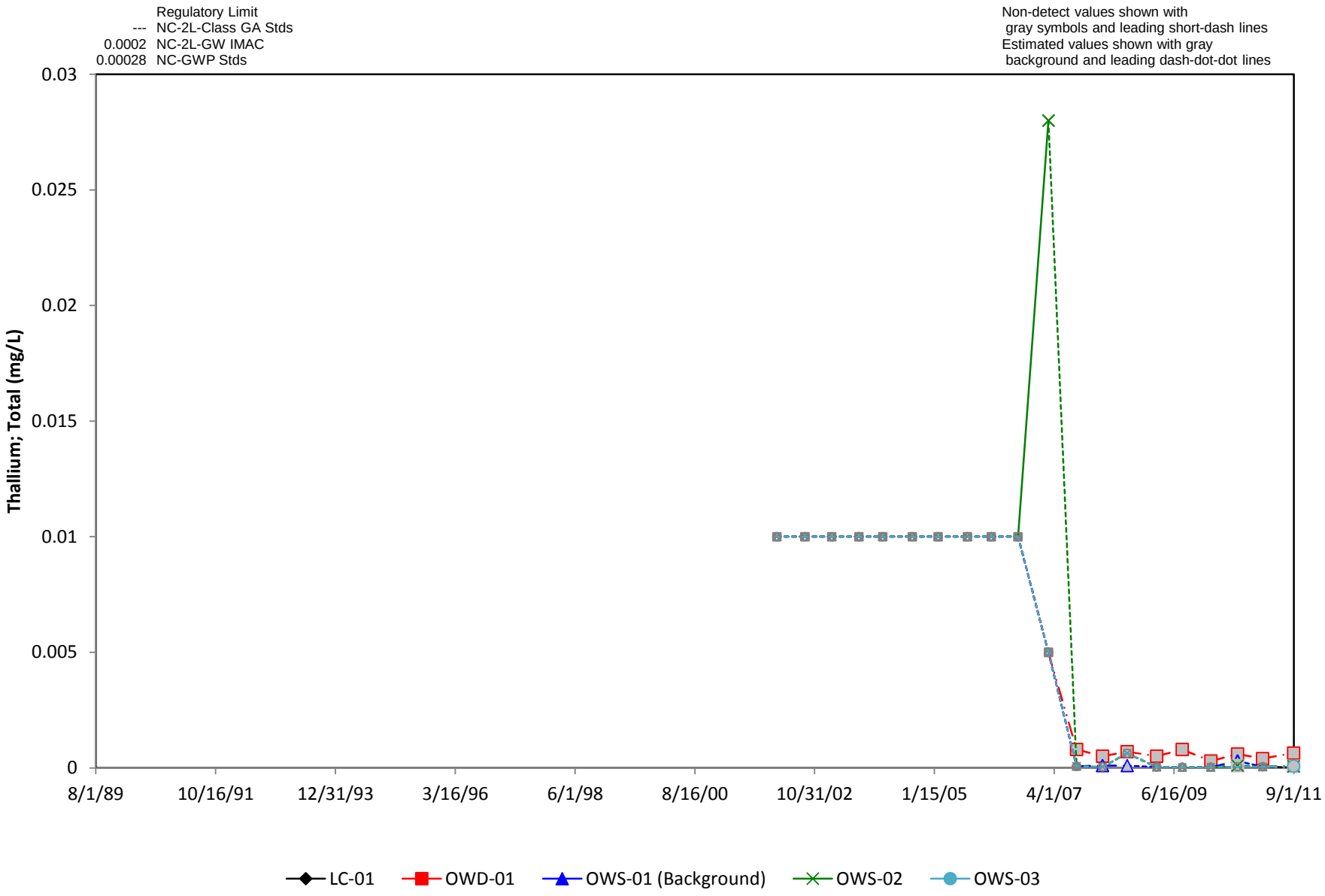

Figure D-28: Thallium; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

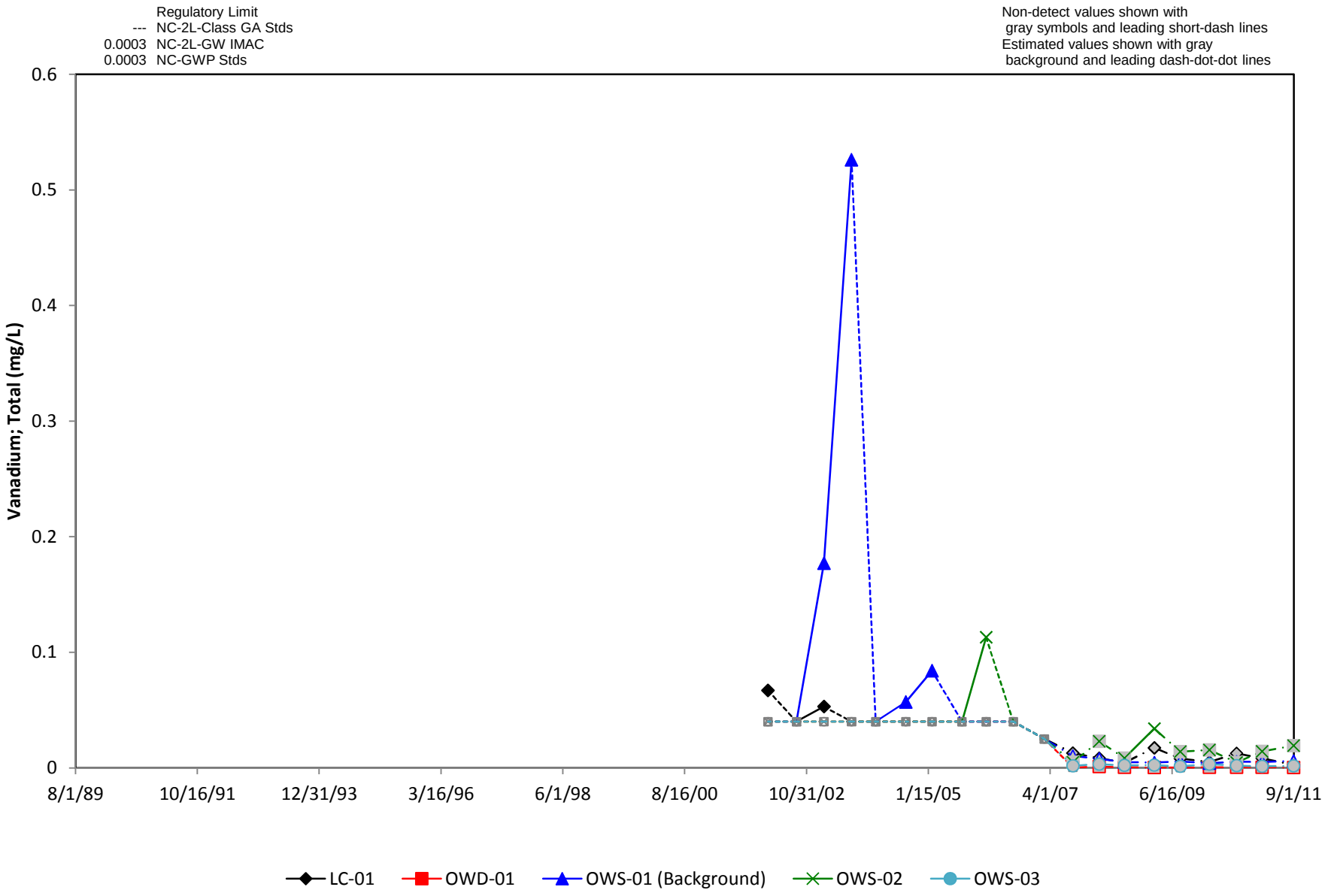

Figure D-29: Vanadium; Total (mg/L)

ILF Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

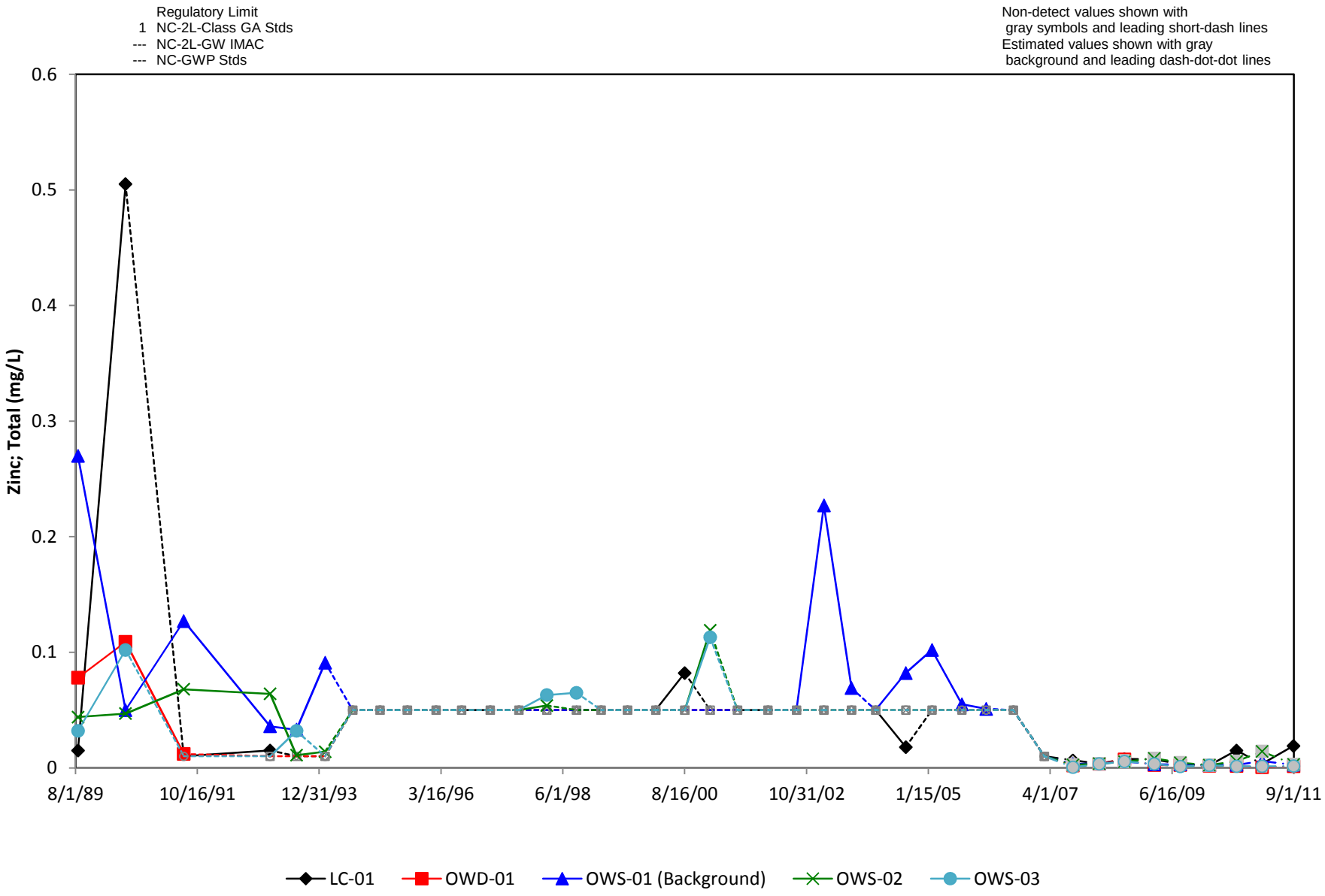

Figure D-30: Zinc; Total (mg/L)

APPENDIX E

RSDS CHEMISTRY DATA

Table E-1
RSDS General Chemistry and Metals Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Total Dissolved Solids Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate (as N) Total (mg/L)	Sulfate Total (mg/L)	Chemical Oxygen Demand Total (mg/L)	Total Phenols Total (mg/L)	Total Organic Carbon Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
2L Groundwater Class GA Stds			---	6.5-8.5	---	500	---	10	250	---	---	---	0.002	0.01	1	0.1	1
NC-2L-GW IMAC			---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---
NC-GWP Stds			---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---
L-01	5/14/2001	Primary	---	[5.8]	---	70	---	2.19	37.3	---	0.004	---	0.001	0.008	0.01	0.01	0.018
L-01	3/19/2003	Primary	15	[5.5]	142	90	---	2.46	33.2	---	<0.002	---	<0.001	[0.018]	<0.01	<0.01	0.015
L-01	7/31/2003	Primary	23	[5.1]	155	90	---	3.61	24.7	---	<0.002	---	<0.001	[0.043]	0.012	<0.01	0.04
L-01	11/19/2003	Primary	21	[4.9]	153	72	---	0.82	35.4	---	<0.002	---	<0.001	[0.026]	<0.01	<0.01	0.026
L-01	3/18/2004	Primary	15	[5.5]	114	55	---	1.34	22	---	<0.002	---	<0.001	[0.017]	<0.01	<0.01	0.014
L-01	7/30/2004	Primary	23	[5.6]	121	76	---	1.37	34.3	---	<0.002	---	<0.001	0.009	<0.01	<0.01	<0.01
L-01	11/12/2004	Primary	20	[5.5]	126	56	---	0.9	36.3	---	<0.002	---	<0.001	<0.005	0.028	<0.01	<0.01
L-01	3/1/2005	Primary	15	[5.4]	---	73	---	1.6	24.3	---	<0.002	---	<0.001	<0.005	<0.01	<0.01	<0.01
L-01	7/20/2005	Primary	24	[5.5]	117	60	---	2.15	30.6	---	<0.002	---	<0.001	0.006	<0.01	<0.01	0.016
L-01	11/4/2005	Primary	22	[5.4]	127	67	---	1.75	21.2	---	<0.002	---	[0.002]	<0.02	<0.01	<0.1R	<0.01
L-01	3/20/2006	Primary	17	[5.6]	152	62	---	1.03	28.3	---	<0.002	---	<0.001	<0.005	<0.01	<0.01	<0.01
L-01	7/5/2006	Primary	23	[5.5]	140	71	---	1.65	30.4	---	0.003	---	<0.001	[0.011]	<0.01	<0.01	<0.01
L-01	11/2/2006	Primary	21	[5.3]	93	70	---	0.36	29.2	---	<0.002	---	<0.001	<0.005	<0.01	<0.01	<0.01
L-01	11/30/2006	Primary	19	[5.4]	80	---	<0.04	---	---	18	---	1.44	---	---	---	---	---
L-01	3/26/2007	Primary	16	[4.7]	74	60	0.04	0.75	19.7	11	<0.002	1.71	<0.001	<0.005	<0.01	<0.01	<0.01
L-01	7/11/2007	Primary	23	[5.3]	132	79	<0.04	0.42	26.4	19	<0.002	2.04	<0.001	<0.005	<0.01	<0.01	<0.01
L-01	11/13/2007	Primary	21	[5.5]	121	64	0.05	<0.04	21.2	25	---	3.38	<0.001	<0.005	<0.01	<0.01	<0.01
L-01	11/30/2007	Primary	---	---	---	---	---	---	---	---	<0.002	---	---	---	---	---	---
L-01	3/3/2008	Primary	16	[5.5]	66	45	<0.04	0.07	21.2	11	<0.002	2.12	<0.001	<0.005	<0.01	<0.01	<0.01
L-01	7/10/2008	Primary	23	[5.2]	122	86	0.05	0.12	24.5	18	<0.002	2.38	<0.001	<0.005	<0.01	<0.01	<0.01
L-01	11/12/2008	Primary	---	[5.2]	126	65	<0.04	0.38	32.8	<10	<0.002	2.3	<0.001	<0.005	<0.01	<0.01	<0.01
L-01	3/11/2009	Primary	16	[4.6]	44	46	0.05	0.18	20.9	<10	<0.002	1.38	<0.001	<0.005	<0.01	<0.01	<0.01
L-01	7/23/2009	Primary	22	[5]	152	87	0.19	0.66	36.4	17	<0.002	1.78	<0.001	<0.005	<0.01	<0.01	<0.01
L-01	11/4/2009	Primary	20	[4.9]	136	42	<0.04	0.38	10.1	12	<0.002	<1	<0.001	<0.005	<0.01	<0.01	<0.01
L-01	3/8/2010	Primary	13	[4.7]	62	49	<0.04	0.1	22.4	<10	<0.002	<1	<0.001	<0.005	<0.01	<0.010	<0.01
L-01	7/28/2010	Primary	35	[5.1]	117	81	0.15	1.03	34.1	20	<0.002	1.8	<0.001	<0.005	<0.01	<0.010	<0.01
L-01	11/22/2010	Primary	19	[5.2]	69	53	0.22	0.14	18.5	19	<0.002	<1.00	<0.001	<0.005	<0.010	<0.010	<0.010
L-01	3/7/2011	Primary	15	[5.1]	65	272	<0.04	0.11	19.8	14	<0.002	1.17	<0.001	<0.005	<0.01	<0.01	<0.01
L-01	7/26/2011	Primary	25	[5.2]	138	74	0.3	<0.04	38.5	21	<0.002	2.86	<0.001	<0.005	<0.01	<0.01	<0.01
L-02	5/14/2001	Primary	---	[5.1]	---	126	---	0.04	6.6	---	0.005	---	0.001	[0.022]	0.01	0.01	0.027
L-02	3/19/2003	Primary	14	[5.5]	61	54	---	0.05	<5	---	<0.002	---	<0.001	0.008	<0.01	<0.01	0.011
L-02	7/31/2003	Primary	20	[5.7]	141	124	---	0.11	<5	---	<0.002	---	<0.001	[0.014]	<0.01	<0.01	0.019
L-02	11/19/2003	Primary	19	[5.3]	132	77	---	<0.04	8.7	---	0.003	---	<0.001	0.006	<0.01	<0.01	0.012
L-02	3/18/2004	Primary	13	[4.7]	193	70	---	<0.04	<5	---	<0.002	---	<0.001	0.006	<0.01	<0.01	<0.01
L-02	7/30/2004	Primary	22	[5.8]	120	108	---	0.05	8.1	---	<0.002	---	[0.002]	<0.005	<0.01	<0.01	<0.01
L-02	11/12/2004	Primary	19	[5.8]	127	81	---	<0.04	6.1	---	<0.002	---	<0.001	<0.005	0.041	<0.01	<0.01

Table E-1
RSDS General Chemistry and Metals Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Total Dissolved Solids Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate (as N) Total (mg/L)	Sulfate Total (mg/L)	Chemical Oxygen Demand Total (mg/L)	Total Phenols Total (mg/L)	Total Organic Carbon Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
2L Groundwater Class GA Stds			---	6.5-8.5	---	500	---	10	250	---	---	---	0.002	0.01	1	0.1	1
NC-2L-GW IMAC			---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---
NC-GWP Stds			---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---
L-02	3/1/2005	Primary	13	[6]	---	70	---	0.06	6.9	---	<0.004	---	<0.001	<0.005	<0.01	<0.01	0.018
L-02	7/20/2005	Primary	20	[6]	129	96	---	<0.04	5.2	---	<0.004	---	<0.001	<0.005	<0.01	<0.01	0.017
L-02	11/4/2005	Primary	20	[6]	162	118	---	0.08	<5	---	<0.002	---	<0.001	<0.02	0.01	<0.1R	0.015
L-02	3/20/2006	Primary	15	[6]	177	108	---	<0.04	5.4	---	<0.002	---	<0.001	<0.005	<0.01	<0.01	<0.01
L-02	7/5/2006	Primary	18	[5.9]	152	89	---	<0.04	12.3	---	0.003	---	<0.001	0.006	<0.01	<0.01	<0.01
L-02	11/2/2006	Primary	19	[6]	149	125	---	<0.04	5.3	---	<0.002	---	<0.001	<0.005	<0.01	<0.01	<0.01
L-02	11/30/2006	Primary	17	[6.1]	151	---	0.35	---	---	63	---	21.32	---	---	---	---	---
L-02	3/26/2007	Primary	15	[6.1]	178	94	0.23	<0.04	<5	39	<0.002	20.98	<0.001	<0.005	<0.01	<0.01	<0.01
L-02	7/11/2007	Primary	20	[5.9]	137	95	0.1	0.06	5	35	<0.002	14.18	<0.001	<0.005	<0.01	<0.01	<0.01
L-02	11/13/2007	Primary	19	[6.1]	198	88	0.43	<0.04	<5	46	---	20.02	<0.001	[0.012]	<0.01	<0.01	<0.01
L-02	11/30/2007	Primary	---	---	---	---	---	---	---	---	<0.002	---	---	---	---	---	---
L-02	3/3/2008	Primary	15	[6.1]	195	119	<0.04	<0.04	36.2	26	<0.002	9.97	<0.001	<0.005	<0.01	<0.01	<0.01
L-02	7/10/2008	Primary	20	[6]	110	77	<0.04	0.07	<5	54	<0.002	20.85	<0.001	<0.005	<0.01	<0.01	<0.01
L-02	11/12/2008	Primary	---	[5.9]	178	131	0.06	0.07	5	70	<0.002	31.3	<0.001	<0.005	<0.01	<0.01	<0.01
L-02	3/11/2009	Primary	13	[5.9]	127	113	0.1	<0.04	8.5	159	<0.002	57.36	<0.001	<0.005	<0.01	<0.01	<0.01
L-02	7/23/2009	Primary	19	[5.6]	124	113	0.54	0.32	10.3	86	<0.002	41.48	<0.001	<0.005	<0.01	<0.01	<0.01
L-02	11/4/2009	Primary	18	[5.5]	147	110	0.25	0.06	10.6	41	<0.002	21.44	0.001	<0.005	<0.01	<0.01	<0.01
L-02	3/8/2010	Primary	11	[5.9]	138	106	0.07	<0.04	<5	43	<0.002	24.92	<0.001	<0.005	<0.01	<0.010	<0.01
L-02	7/28/2010	Primary	21	[5.7]	100	124	0.29	0.8	6.9	72	<0.002	26.64	<0.001	<0.005	<0.01	<0.010	<0.01
L-02	11/22/2010	Primary	16	[6.2]	125	124	0.06	0.11	<5.0	66	<0.002	30.48	<0.001	<0.005	<0.010	<0.010	<0.010
L-02	3/7/2011	Primary	11	[6.3]	143	123	0.06	<0.04	<5	58	<0.002	25.32	<0.001	<0.005	<0.01	<0.01	<0.01
L-02	7/26/2011	Primary	21	[5.9]	145	114	0.93	0.07	6.7	62	<0.002	25.88	<0.001	<0.005	<0.01	<0.01	<0.01
L-03	5/14/2001	Primary	---	[4.3]	---	42	---	1.92	7.5	---	0.006	---	0.001	0.005	0.01	0.01	0.01
L-03	3/19/2003	Primary	15	[5]	38	21	---	<0.04	5.4	---	<0.002	---	<0.001	<0.005	<0.01	<0.01	<0.01
L-03	7/31/2003	Primary	22	[4.1]	50	44	---	0.05	<5	---	<0.002	---	<0.001	<0.005	<0.01	<0.01	<0.01
L-03	11/19/2003	Primary	21	[4.3]	44	[529]R	---	<0.04	5.1	---	<0.002	---	<0.001	<0.005	<0.01	<0.01	<0.01
L-03	3/18/2004	Primary	15	[4.6]	42	14	---	0.09	<5	---	<0.002	---	<0.001	0.007	<0.01	<0.01	<0.01
L-03	7/30/2004	Primary	22	[5.1]	31	5.7	---	0.17	6.5	---	<0.002	---	<0.001	<0.005	<0.01	<0.01	<0.01
L-03	11/12/2004	Primary	21	[4.9]	28	25	---	0.22	5.1	---	<0.002	---	<0.001	<0.005	0.043	<0.01	<0.01
L-03	3/1/2005	Primary	15	[5.3]	---	42	---	0.36	7.5	---	<0.002	---	<0.001	<0.005	<0.01	<0.01	<0.01
L-03	7/20/2005	Primary	22	[5.1]	36	21	---	<0.04	6	---	<0.002	---	[0.002]	<0.005	<0.01	<0.01	0.012
L-03	11/4/2005	Primary	22	[5]	34	85	---	0.04	<5	---	<0.002	---	<0.001	<0.02	<0.01	<0.1R	<0.01
L-03	3/20/2006	Primary	16	[4.9]	31	9.7	---	<0.04	5.5	---	<0.002	---	<0.001	<0.005	<0.01	<0.01	<0.01
L-03	7/5/2006	Primary	21	[4.9]	39	67	---	0.46	<5	---	0.002	---	<0.001	0.006	<0.01	<0.01	<0.01
L-03	11/2/2006	Primary	21	[4.7]	26	18	---	0.1	5.7	---	<0.002	---	<0.001	<0.005	<0.01	<0.01	<0.01
L-03	11/30/2006	Primary	20	[4.8]	28	---	<0.04	---	---	14	---	<1	---	---	---	---	---

Table E-1
RSDS General Chemistry and Metals Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Total Dissolved Solids Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate (as N) Total (mg/L)	Sulfate Total (mg/L)	Chemical Oxygen Demand Total (mg/L)	Total Phenols Total (mg/L)	Total Organic Carbon Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
2L Groundwater Class GA Stds			---	6.5-8.5	---	500	---	10	250	---	---	---	0.002	0.01	1	0.1	1
NC-2L-GW IMAC			---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---
NC-GWP Stds			---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---
L-03	3/26/2007	Primary	15	[4.4]	27	40	0.08	<0.04	<5	<10	<0.002	<1	<0.001	<0.005	<0.01	<0.01	<0.01
L-03	7/11/2007	Primary	21	[4.7]	40	41	<0.04	0.69	7.6	14	<0.002	<1	<0.001	<0.005	<0.01	<0.01	<0.01
L-03	11/13/2007	Primary	21	[4.8]	47	58	<0.04	1.01	8.3	15	---	<1	<0.001	<0.005	<0.01	<0.01	<0.01
L-03	11/30/2007	Primary	---	---	---	---	---	---	---	---	<0.002	---	---	---	---	---	---
L-03	3/3/2008	Primary	17	[5.1]	39	43	<0.04	<0.04	<5	<10	<0.002	1.29	<0.001	<0.005	<0.01	<0.01	<0.01
L-03	7/10/2008	Primary	20	[5]	78	46	<0.04	0.99	14.4	15	<0.002	4.2	<0.001	<0.005	<0.01	<0.01	<0.01
L-03	11/12/2008	Primary	---	[4.9]	32	44	0.06	<0.04	5.3	<10	<0.002	<1	<0.001	<0.005	<0.01	<0.01	<0.01
L-03	3/11/2009	Primary	16	[4.5]	31	44	0.06	<0.04	<5	19	<0.002	<1	<0.001	<0.005	<0.01	<0.01	<0.01
L-03	7/23/2009	Primary	20	[4.5]	40	43	0.17	0.43	10.5	15	<0.002	<1	<0.001	<0.005	<0.01	<0.01	<0.01
L-03	11/4/2009	Primary	20	[4.4]	40	66	<0.04	0.07	31.8	14	<0.002	1.59	<0.001	<0.005	<0.01	<0.01	<0.01
L-03	3/8/2010	Primary	13	[4.5]	29	42	<0.04	<0.04	6.5	<10	<0.002	<1	<0.001	<0.005	<0.01	<0.010	<0.01
L-03	7/28/2010	Primary	22	[5]	29	17	0.13	0.26	6.3	17	<0.002	<1	<0.001	<0.005	<0.01	<0.010	0.011
L-03	11/22/2010	Primary	20	[4.8]	27	23	0.09	0.08	5.9	15	<0.002	<1.00	<0.001	<0.005	<0.010	<0.010	<0.010
L-03	3/7/2011	Primary	14	[4.8]	26	42	<0.04	<0.04	5.9	14	<0.002	<1	<0.001	<0.005	<0.01	<0.01	<0.01
L-03	7/26/2011	Primary	23	[4.6]	39	24	1.38	0.04	10.1	<20	<0.002	<1	<0.001	<0.005	<0.01	<0.01	<0.01
L-04	5/14/2001	Primary	---	[6.1]	---	231	---	0.04	14.3	---	0.008	---	0.001	0.007	0.011	0.01	0.026
L-04	3/19/2003	Primary	14	6.7	461	225	---	<0.04	<5	---	<0.002	---	<0.001	<0.005	<0.01	<0.01	<0.01
L-04	7/31/2003	Primary	22	[6.3]	407	186	---	0.28	11.3	---	<0.002	---	<0.001	[0.011]	<0.01	<0.01	0.019
L-04	11/19/2003	Primary	20	[6.2]	252	245	---	<0.04	9.3	---	<0.002	---	<0.001	[0.019]	<0.01	<0.01	0.032
L-04	3/18/2004	Primary	13	6.5	394	189	---	<0.04	29.9	---	<0.002	---	<0.001	[0.012]	<0.01	<0.01	0.018
L-04	7/30/2004	Primary	22	6.5	390	142	---	<0.04	16	---	<0.002	---	<0.001	0.005	<0.01	<0.01	<0.01
L-04	11/12/2004	Primary	20	6.5	389	169	---	<0.04	5.8	---	<0.002	---	<0.001	<0.005	0.046	<0.01	<0.01
L-04	3/1/2005	Primary	15	6.5	---	341	---	0.07	38.7	---	<0.002	---	<0.001	<0.005	<0.01	<0.01	0.016
L-04	7/20/2005	Primary	24	6.6	455	231	---	0.06	66.4	---	<0.002	---	<0.001	0.005	<0.01	<0.01	0.017
L-04	11/4/2005	Primary	22	6.5	390	185	---	0.07	6.6	---	<0.002	---	<0.001	<0.02	0.016	<0.1R	0.025
L-04	3/20/2006	Primary	16	6.6	395	198	---	<0.04	6.9	---	<0.002	---	<0.001	[0.01]	0.142R	<0.01	0.021
L-04	7/5/2006	Primary	21	6.6	446	217	---	<0.04	13.5	---	0.003	---	<0.001	[0.011]	<0.01	<0.01	<0.01
L-04	11/2/2006	Primary	20	6.5	477	276	---	<0.04	35.6	---	<0.002	---	<0.001	<0.005	<0.01	<0.01	<0.01
L-04	11/30/2006	Primary	19	6.5	456	---	1.11	---	---	39	---	13.33	---	---	---	---	---
L-04	3/26/2007	Primary	16	[6.4]	500	288	1.14	<0.04	25.2	39	<0.002	14.69	<0.001	<0.005	<0.01	<0.01	<0.01
L-04	7/11/2007	Primary	21	6.5	504	297	1.16	<0.04	36.5	45	<0.002	10.76	<0.001	<0.005	<0.01	<0.01	<0.01
L-04	11/13/2007	Primary	20	6.7	411	219	0.87	<0.04	<5	39	---	14.01	<0.001	<0.005	<0.01	<0.01	<0.01
L-04	11/30/2007	Primary	---	---	---	---	---	---	---	---	<0.002	---	---	---	---	---	---
L-04	3/3/2008	Primary	16	[6.4]	365	239	1.16	<0.04	21.7	27	<0.002	12.3	<0.001	<0.005	<0.01	<0.01	<0.01
L-04	7/10/2008	Primary	21	6.5	408	197	1.25	<0.04	27.2	35	<0.002	13.47	<0.001	<0.005	<0.01	<0.01	0.015
L-04	11/12/2008	Primary	---	[6.4]	501	301	1.27	<0.04	36.6	26	<0.002	13.78	<0.001	<0.005	<0.01	<0.01	<0.01

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RSDS General Chemistry and Metals Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Temperature Field (°C)	pH Field (units)	Specific Conductance Field (uS/cm)	Total Dissolved Solids Total (mg/L)	Ammonia (as N) Total (mg/L)	Nitrate (as N) Total (mg/L)	Sulfate Total (mg/L)	Chemical Oxygen Demand Total (mg/L)	Total Phenols Total (mg/L)	Total Organic Carbon Total (mg/L)	Cadmium Total (mg/L)	Chromium Total (mg/L)	Copper Total (mg/L)	Nickel Total (mg/L)	Zinc Total (mg/L)
2L Groundwater Class GA Stds			---	6.5-8.5	---	500	---	10	250	---	---	---	0.002	0.01	1	0.1	1
NC-2L-GW IMAC			---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---
NC-GWP Stds			---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---
L-04	3/11/2009	Primary	15	6.6	445	232	1.1	<0.04	25.2	27	<0.002	20.24	<0.001	<0.005	<0.01	<0.01	<0.01
L-04	7/23/2009	Primary	18	[6.4]	656	395	[1.8]	0.11	123.5	39	<0.002	17.66	<0.001	<0.005	<0.01	<0.01	<0.01
L-04	11/4/2009	Primary	20	6.5	576	323	1.38	<0.04	63.2	33	<0.002	16.76	<0.001	<0.005	<0.01	<0.01	<0.01
L-04	3/8/2010	Primary	12	6.5	615	401	1.12	0.05	102	<10	<0.002	24.28	<0.001	<0.005	<0.01	<0.010	<0.01
L-04	7/28/2010	Primary	22	[6.4]	578	380	[1.5]	<0.04	[382.3]	44	<0.002	15.04	<0.001	0.005	<0.01	<0.010	<0.01
L-04	11/22/2010	Primary	19	6.5	649	389	1	0.1	117.5	38	<0.002	14.84	<0.001	<0.005	<0.010	<0.010	<0.010
L-04	3/7/2011	Primary	13	6.6	609	366	[1.51]	<0.04	104	38	<0.002	14.62	<0.001	<0.005	<0.01	<0.01	<0.01
L-04	7/26/2011	Primary	23	[6.3]	425	239	[1.65]	<0.04	31.6	28	<0.002	9.36	<0.001	<0.005	<0.01	<0.01	<0.01
RSDS-LC01	11/23/2010	Primary	---	7.43	1540	[977]	<0.04	<0.04	[327.8]	98	<0.002	40.04	<0.0010	<0.0050	0.011	<0.01	<0.01
RSDS-LC01	3/31/2011	Primary	---	---	1540	[1060]	0.06	0.04	[341.0]	233	<0.002	50.7	<0.0010	<0.0050	<0.01	<0.01	<0.01

Table E-2
Statistics Summary--RSDS Water Quality Data
Weyerhaeuser New Bern Cellulose Fibers Mill

Site	Sample Dates: 5/14/2001 to 7/26/2011	Temperature; (°C)	pH; Field (units)	Specific Conductance; Field (uS/cm)	Total Dissolved Solids; Total (mg/L)	Ammonia (as N); Total (mg/L)	Nitrate (as N); Total (mg/L)	Sulfate; Total (mg/L)	Chemical Oxygen Demand; Total (mg/L)	Total Phenols; Total (mg/L)	Total Organic Carbon; Total (mg/L)	Cadmium; Total (mg/L)	Chromium; Total (mg/L)	Copper; Total (mg/L)	Nickel; Total (mg/L)	Zinc; Total (mg/L)
15A NCAC 02LGroundwaterClass GA		---	6.5-8.5	---	500	---	10	250	---	---	---	0.002	0.01	1	0.1	1
NC-2L-GW IMAC		---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---
NC-GWP Stds		---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---
L-01	Count	26	28	26	27	15	27	27	15	27	15	27	27	27	26	27
L-01	Maximum	35	5.8	155	272	0.3	3.61	38.5	25	0.004	3.38	0.002	0.043	0.028	0.01	0.04
L-01	Minimum	13	4.6	44	42	0.04	0.04	10.1	10	0.002	1	0.001	0.005	0.01	0.01	0.01
L-01	Average	20.1	5.26	113	74.6	0.089	0.95	27.2	15.7	0.0021	1.82	0.0010	0.0092	0.011	0.010	0.013
L-01	Std Dev	4.6	0.30	33	41.7	0.084	0.91	7.2	4.8	0.0004	0.71	0.0002	0.0088	0.003	0.000	0.007
L-01	CV	0.2	0.1	0.3	0.6	1.0	1.0	0.3	0.3	0.2	0.4	0.2	1.0	0.3	0.0	0.5
L-01	CI about Mean	0.1	0.00	0	0.5	0.001	0.01	0.1	0.1	0.0000	0.01	0.0000	0.0001	0.000	0.000	0.000
L-01	25th Percentile	16.0	5.10	83	58.0	0.040	0.16	21.2	11.0	0.0020	1.28	0.0010	0.0050	0.010	0.010	0.010
L-01	Median	20.5	5.30	122	70.0	0.040	0.75	26.4	17.0	0.0020	1.78	0.0010	0.0050	0.010	0.010	0.010
L-01	75th Percentile	23.0	5.50	138	77.5	0.100	1.49	33.7	19.0	0.0020	2.21	0.0010	0.0085	0.010	0.010	0.010
L-01	IQR	7.0	0.40	54	19.5	0.060	1.33	12.5	8.0	0.0000	0.94	0.0000	0.0035	0.000	0.000	0.000
L-01	%ND	0%	0%	0%	0%	47%	7%	0%	20%	93%	20%	93%	70%	89%	96%	78%
L-01	%> Guidance Level		100%									4%	19%			
L-02	Count	26	28	26	27	15	27	27	15	27	15	27	27	27	26	27
L-02	Maximum	22	6.3	198	131	0.93	0.8	36.2	159	0.005	57.36	0.002	0.022	0.041	0.01	0.027
L-02	Minimum	11	4.7	61	54	0.04	0.04	5	26	0.002	9.97	0.001	0.005	0.01	0.01	0.01
L-02	Average	17.2	5.82	144	103	0.24	0.091	7.55	61.3	0.0023	26.1	0.0010	0.0070	0.011	0.010	0.012
L-02	Std Dev	3.3	0.35	31	21	0.25	0.152	6.08	31.5	0.0008	11.3	0.0002	0.0046	0.006	0.000	0.004
L-02	CV	0.2	0.1	0.2	0.2	1.0	1.7	0.8	0.5	0.3	0.4	0.2	0.7	0.5	0.0	0.3
L-02	CI about Mean	0.0	0.00	0	0	0.00	0.002	0.07	0.5	0.0000	0.2	0.0000	0.0001	0.000	0.000	0.000
L-02	25th Percentile	15.0	5.70	127	89	0.06	0.040	5.00	42.0	0.0020	20.9	0.0010	0.0050	0.010	0.010	0.010
L-02	Median	18.5	5.90	142	108	0.10	0.040	5.30	58.0	0.0020	24.9	0.0010	0.0050	0.010	0.010	0.010
L-02	75th Percentile	20.0	6.00	160	121	0.32	0.070	7.50	68.0	0.0020	28.6	0.0010	0.0060	0.010	0.010	0.011
L-02	IQR	5.0	0.30	33	33	0.26	0.030	2.50	26.0	0.0000	7.6	0.0000	0.0010	0.000	0.000	0.000
L-02	%ND	0%	0%	0%	0%	13%	48%	37%	0%	89%	0%	89%	74%	89%	96%	74%
L-02	%> Guidance Level		100%									4%	11%			
L-03	Count	26	28	26	26	15	27	27	15	27	15	27	27	27	26	27
L-03	Maximum	23	5.3	78	85	1.38	1.92	31.8	20	0.006	4.2	0.002	0.02	0.043	0.01	0.012
L-03	Minimum	13	4.1	26	5.7	0.04	0.04	5	10	0.002	1	0.001	0.005	0.01	0.01	0.01
L-03	Average	19.0	4.75	36.6	37.2	0.15	0.27	7.48	14.13	0.0021	1.27	0.0010	0.0057	0.011	0.010	0.010
L-03	Std Dev	3.1	0.29	10.8	18.9	0.34	0.43	5.32	3.14	0.0008	0.83	0.0002	0.0029	0.006	0.000	0.000
L-03	CV	0.2	0.1	0.3	0.5	2.2	1.6	0.7	0.2	0.4	0.6	0.2	0.5	0.6	0.0	0.0
L-03	CI about Mean	0.0	0.00	0.1	0.2	0.01	0.01	0.06	0.05	0.0000	0.01	0.0000	0.0000	0.000	0.000	0.000
L-03	25th Percentile	16.0	4.50	29.0	21.5	0.04	0.04	5.05	12.00	0.0020	1.00	0.0010	0.0050	0.010	0.010	0.010
L-03	Median	20.0	4.80	35.0	42.0	0.04	0.07	5.90	14.00	0.0020	1.00	0.0010	0.0050	0.010	0.010	0.010
L-03	75th Percentile	21.0	5.00	40.0	44.0	0.09	0.31	7.50	15.00	0.0020	1.00	0.0010	0.0050	0.010	0.010	0.010
L-03	IQR	5.0	0.50	11.0	22.5	0.05	0.27	2.45	3.00	0.0000	0.00	0.0000	0.0000	0.000	0.000	0.000
L-03	%ND	0%	0%	0%	0%	53%	37%	26%	33%	93%	80%	93%	89%	93%	96%	89%
L-03	%> Guidance Level		100%									4%				

Table E-2
Statistics Summary--RSDS Water Quality Data
Weyerhaeuser New Bern Cellulose Fibers Mill

Site	Sample Dates: 5/14/2001 to 7/26/2011	Temperature; (°C)	pH; Field (units)	Specific Conductance; Field (uS/cm)	Total Dissolved Solids; Total (mg/L)	Ammonia (as N); Total (mg/L)	Nitrate (as N); Total (mg/L)	Sulfate; Total (mg/L)	Chemical Oxygen Demand; Total (mg/L)	Total Phenols; Total (mg/L)	Total Organic Carbon; Total (mg/L)	Cadmium; Total (mg/L)	Chromium; Total (mg/L)	Copper; Total (mg/L)	Nickel; Total (mg/L)	Zinc; Total (mg/L)
15A NCAC 02LGroundwaterClass GA		---	6.5-8.5	---	500	---	10	250	---	---	---	0.002	0.01	1	0.1	1
NC-2L-GW IMAC		---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---
NC-GWP Stds		---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---
L-04	Count	26	28	26	27	15	27	27	15	27	15	27	27	26	26	27
L-04	Maximum	24	6.7	656	401	1.8	0.28	382.3	45	0.008	24.28	0.001	0.02	0.046	0.01	0.032
L-04	Minimum	12	6.1	252	142	0.87	0.04	5	10	0.002	9.36	0.001	0.005	0.01	0.01	0.01
L-04	Average	18.6	6.48	467	263	1.27	0.057	50.4	33.8	0.0023	15.0	0.0010	0.0070	0.012	0.010	0.014
L-04	Std Dev	3.4	0.14	97	76	0.25	0.048	75.2	9.0	0.0012	3.7	0.0000	0.0042	0.007	0.000	0.006
L-04	CV	0.2	0.0	0.2	0.3	0.2	0.8	1.5	0.3	0.5	0.2	0.0	0.6	0.6	0.0	0.4
L-04	CI about Mean	0.0	0.00	1	1	0.00	0.001	0.9	0.1	0.0000	0.1	0.0000	0.0001	0.000	0.000	0.000
L-04	25th Percentile	16.0	6.40	398	208	1.12	0.040	12.4	27.5	0.0020	13.4	0.0010	0.0050	0.010	0.010	0.010
L-04	Median	20.0	6.50	451	239	1.16	0.040	27.2	38.0	0.0020	14.6	0.0010	0.0050	0.010	0.010	0.010
L-04	75th Percentile	21.0	6.53	503	312	1.44	0.045	51.0	39.0	0.0020	15.9	0.0010	0.0060	0.010	0.010	0.017
L-04	IQR	5.0	0.13	105	105	0.33	0.005	38.6	11.5	0.0000	2.5	0.0000	0.0010	0.000	0.000	0.007
L-04	%ND	0%	0%	0%	0%	0%	70%	7%	7%	93%	0%	96%	67%	88%	96%	67%
L-04	%> Guidance Level		32%			27%		4%					19%			
RSDS-LC01	Count	0	1	2	2	2	2	2	2	2	2	2	2	2	2	2
RSDS-LC01	Maximum		7.43	1540	1060	0.06	0.04	341	233	0.002	50.7	0.001	0.005	0.011	0.01	0.01
RSDS-LC01	Minimum			1540	977	0.04	0.04	327.8	98	0.002	40.04	0.001	0.005	0.01	0.01	0.01
RSDS-LC01	Average			1540	1019	0.050	0.040	334	166	0.0020	45.4	0.0010	0.0050	0.011	0.010	0.010
RSDS-LC01	Std Dev			0	59	0.014	0.000	9	95	0.0000	7.5	0.0000	0.0000	0.001	0.000	0.000
RSDS-LC01	CV			0.0	0.1	0.3	0.0	0.0	0.6	0.0	0.2	0.0	0.0	0.1	0.0	0.0
RSDS-LC01	CI about Mean				3	0.001		0	4		0.3			0.000		
RSDS-LC01	25th Percentile			1540	998	0.045	0.040	331	132	0.0020	42.7	0.0010	0.0050	0.010	0.010	0.010
RSDS-LC01	Median			1540	1019	0.050	0.040	334	166	0.0020	45.4	0.0010	0.0050	0.011	0.010	0.010
RSDS-LC01	75th Percentile			1540	1039	0.055	0.040	338	199	0.0020	48.0	0.0010	0.0050	0.011	0.010	0.010
RSDS-LC01	IQR			0	42	0.010	0.000	7	68	0.0000	5.3	0.0000	0.0000	0.000	0.000	0.000
RSDS-LC01	%ND		0%	0%	0%	50%	50%	0%	0%	100%	0%	100%	100%	50%	100%	100%
RSDS-LC01	%> Guidance Level				100%			100%								
All Sites	Count	104	113	106	109	62	110	110	62	110	62	110	110	109	106	110
All Sites	Maximum	35	7.43	1540	1060	1.8	3.61	382.3	233	0.008	57.36	0.002	0.043	0.046	0.01	0.04
All Sites	Minimum	11	4.1	26	5.7	0.04	0.04	5	10	0.002	1	0.001	0.005	0.01	0.01	0.01
All Sites	Average	18.7	5.59	216	137	0.42	0.34	28.8	35.6	0.0022	12.17	0.0010	0.0072	0.011	0.010	0.012
All Sites	Std Dev	3.7	0.72	252	155	0.54	0.61	58.6	36.5	0.0008	13.25	0.0002	0.0056	0.006	0.000	0.005
All Sites	CV	0.2	0.1	1.2	1.1	1.3	1.8	2.0	1.0	0.4	1.1	0.2	0.8	0.5	0.0	0.4
All Sites	CI about Mean	0.0	0.00	2	1	0.00	0.00	0.4	0.3	0.0000	0.11	0.0000	0.0000	0.000	0.000	0.000
All Sites	25th Percentile	15.8	5.00	61	54	0.04	0.04	5.4	14.3	0.0020	1.20	0.0010	0.0050	0.010	0.010	0.010
All Sites	Median	20.0	5.50	132	86	0.10	0.06	10.4	25.5	0.0020	9.67	0.0010	0.0050	0.010	0.010	0.010
All Sites	75th Percentile	21.0	6.20	337	185	0.92	0.31	29.7	40.5	0.0020	20.19	0.0010	0.0050	0.010	0.010	0.010
All Sites	IQR	5.3	1.20	276	131	0.88	0.27	24.3	26.3	0.0000	18.99	0.0000	0.0000	0.000	0.000	0.000
All Sites	%ND	0%	0%	0%	0%	29%	41%	17%	15%	92%	24%	93%	75%	89%	96%	77%
All Sites	%> Guidance Level		82%		2%	6%		3%				3%	12%			

Table E-2
Statistics Summary--RSDS Water Quality Data
Weyerhaeuser New Bern Cellulose Fibers Mill

Site	Sample Dates: 5/14/2001 to 7/26/2011	Temperature; (°C)	pH; Field (units)	Specific Conductance; Field (uS/cm)	Total Dissolved Solids; Total (mg/L)	Ammonia (as N); Total (mg/L)	Nitrate (as N); Total (mg/L)	Sulfate; Total (mg/L)	Chemical Oxygen Demand; Total (mg/L)	Total Phenols; Total (mg/L)	Total Organic Carbon; Total (mg/L)	Cadmium; Total (mg/L)	Chromium; Total (mg/L)	Copper; Total (mg/L)	Nickel; Total (mg/L)	Zinc; Total (mg/L)
15A NCAC 02LGroundwaterClass GA		---	6.5-8.5	---	500	---	10	250	---	---	---	0.002	0.01	1	0.1	1
NC-2L-GW IMAC		---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---
NC-GWP Stds		---	---	---	---	1.5	---	---	---	---	---	---	---	---	---	---

CV = Coefficient of variation (standard deviation/average)

CI = Confidence interval about the mean at the 95% confidence level

IQR = Interquartile range (75th percentile - 25th percentile)

%ND = Percent of non-detect values

%> Guidance Level = Percent of values above regulatory limit (N/A = not available)

Table E-3
RSDS Phenol and VOC Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Phenol Total (ug/L)	2-Chlorophenol Total (ug/L)	2-Nitrophenol Total (ug/L)	4-Nitrophenol Total (ug/L)	2,4-Dichloro phenol Total (ug/L)	2,4-Dinitro phenol Total (ug/L)	2,4-Dimethyl phenol Total (ug/L)	4-Chloro-3-methylphenol Total (ug/L)	2,4,6-Trichloro phenol Total (ug/L)	2-Methyl-4,6-dinitrophenol Total (ug/L)	Pentachloro phenol Total (ug/L)	Benzene Total (ug/L)
15A NCAC 02L	Groundwater	Class GA Stds	30	0.4	---	---	---	---	100	---	---	---	0.3	1
NC-2L-GW IMAC			---	---	---	---	0.98	---	---	---	4	---	---	---
NC-GWP Stds			---	---	---	---	0.98	---	---	---	4	---	---	---
L-01	11/19/2003	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-01	11/4/2005	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-01	11/2/2006	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-01	11/30/2006	Primary	---	---	---	---	---	---	---	---	---	---	---	<0.5
L-01	3/26/2007	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-01	7/11/2007	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-01	11/13/2007	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	<0.5
L-01	3/3/2008	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-01	7/10/2008	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-01	11/12/2008	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	<0.5
L-01	3/11/2009	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-01	7/23/2009	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-01	11/4/2009	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	<0.5
L-01	11/22/2010	Primary	<5.00	<5.00	<25.00	<25.00	<5.00	<25.00	<5.00	<5.00	<5.00	<25.00	<25.00	<0.50
L-01	3/7/2011	Primary	<5	<5	<25	<25	<5	<25	<5	<5	<5	<25	<25	---
L-01	7/29/2011	Primary	<5	<5	<25	<25	<5	<25	<5	<5	<5	<25	<25	---
L-02	11/19/2003	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-02	11/4/2005	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-02	11/2/2006	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-02	11/30/2006	Primary	---	---	---	---	---	---	---	---	---	---	---	<0.5
L-02	3/26/2007	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-02	7/11/2007	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-02	11/13/2007	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	<0.5
L-02	3/3/2008	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-02	7/10/2008	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-02	11/12/2008	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	<0.5
L-02	3/11/2009	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-02	7/23/2009	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-02	11/4/2009	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	<0.5
L-02	11/22/2010	Primary	<5.00	<5.00	<25.00	<25.00	<5.00	<25.00	<5.00	<5.00	<5.00	<25.00	<25.00	<0.50
L-02	3/7/2011	Primary	<5	<5	<25	<25	<5	<25	<5	<5	<5	<25	<25	---
L-02	7/29/2011	Primary	<5	<5	<25	<25	<5	<25	<5	<5	<5	<25	<25	---
L-03	11/19/2003	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-03	11/4/2005	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-03	11/2/2006	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-03	11/30/2006	Primary	---	---	---	---	---	---	---	---	---	---	---	<0.5
L-03	3/26/2007	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---

Table E-3
RSDS Phenol and VOC Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Phenol Total (ug/L)	2-Chlorophenol Total (ug/L)	2-Nitrophenol Total (ug/L)	4-Nitrophenol Total (ug/L)	2,4-Dichloro phenol Total (ug/L)	2,4-Dinitro phenol Total (ug/L)	2,4-Dimethyl phenol Total (ug/L)	4-Chloro-3-methylphenol Total (ug/L)	2,4,6-Trichloro phenol Total (ug/L)	2-Methyl-4,6-dinitrophenol Total (ug/L)	Pentachloro phenol Total (ug/L)	Benzene Total (ug/L)
15A NCAC 02L	Groundwater	Class GA Stds	30	0.4	---	---	---	---	100	---	---	---	0.3	1
NC-2L-GW IMAC			---	---	---	---	0.98	---	---	---	4	---	---	---
NC-GWP Stds			---	---	---	---	0.98	---	---	---	4	---	---	---
L-03	7/11/2007	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-03	11/13/2007	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	<0.5
L-03	3/3/2008	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-03	7/10/2008	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-03	11/12/2008	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	<0.5
L-03	3/11/2009	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-03	7/23/2009	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-03	11/4/2009	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	<0.5
L-03	11/22/2010	Primary	<5.00	<5.00	<25.00	<25.00	<5.00	<25.00	<5.00	<5.00	<5.00	<25.00	<25.00	<0.50
L-03	3/7/2011	Primary	<5	<5	<25	<25	<5	<25	<5	<5	<5	<25	<25	---
L-03	7/29/2011	Primary	<5	<5	<25	<25	<5	<25	<5	<5	<5	<25	<25	---
L-04	11/19/2003	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-04	11/4/2005	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-04	11/2/2006	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-04	11/30/2006	Primary	---	---	---	---	---	---	---	---	---	---	---	<0.5
L-04	3/26/2007	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-04	7/11/2007	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-04	11/13/2007	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	<0.5
L-04	3/3/2008	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-04	7/10/2008	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-04	11/12/2008	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	<0.5
L-04	3/11/2009	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-04	7/23/2009	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	---
L-04	11/4/2009	Primary	<5	<5	<5	---	<5	<5	<5	<5	<5	<5	<5	<0.5
L-04	11/22/2010	Primary	<5.00	<5.00	<25.00	<25.00	<5.00	<25.00	<5.00	<5.00	<5.00	<25.00	<25.00	<0.50
L-04	3/7/2011	Primary	<5	<5	<25	<25	<5	<25	<5	<5	<5	<25	<25	---
L-04	7/29/2011	Primary	<5	<5	<25	<25	<5	<25	<5	<5	<5	<25	<25	---
RSDS-LC01	11/23/2010	Primary	<5.00	<5.00	<25.00	<25.00	<5.00	<25.00	<5.00	<5.00	<5.00	<25.00	<25.00	<0.50
RSDS-LC01	3/31/2011	Primary	<5.00	<5.00	<25.00	<25.00	<5.00	<25.00	<5.00	<5.00	<5.00	<25.00	<25.00	---

Table E-3
RSDS Phenol and VOC Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Bromobenzene Total (ug/L)	Bromochloro methane Total (ug/L)	Bromodichloro methane Total (ug/L)	Bromoform Total (ug/L)	Bromomethane Total (ug/L)	n-Butylbenzene Total (ug/L)	sec-Butyl benzene Total (ug/L)	tert-Butylbenzene Total (ug/L)	Carbon tetrachloride Total (ug/L)	Chlorobenzene Total (ug/L)	Chloroethane Total (ug/L)
15A NCAC 02L	Groundwater	Class GA Stds	---	---	0.6	4	---	70	70	70	0.3	50	3000
NC-2L-GW IMAC			---	---	---	---	10	---	---	---	---	---	---
NC-GWP Stds			---	0.6	---	---	10	---	---	---	---	---	---
L-01	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-01	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-01	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-01	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-01	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
L-01	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-02	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-02	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-02	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-02	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
L-02	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-03	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---	---

Table E-3
RSDS Phenol and VOC Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Bromobenzene Total (ug/L)	Bromochloro methane Total (ug/L)	Bromodichloro methane Total (ug/L)	Bromoform Total (ug/L)	Bromomethane Total (ug/L)	n-Butylbenzene Total (ug/L)	sec-Butyl benzene Total (ug/L)	tert-Butylbenzene Total (ug/L)	Carbon tetrachloride Total (ug/L)	Chlorobenzene Total (ug/L)	Chloroethane Total (ug/L)
15A NCAC 02L	Groundwater	Class GA Stds	---	---	0.6	4	---	70	70	70	0.3	50	3000
NC-2L-GW IMAC			---	---	---	---	10	---	---	---	---	---	---
NC-GWP Stds			---	0.6	---	---	10	---	---	---	---	---	---
L-03	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-03	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-03	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-03	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
L-03	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-04	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-04	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-04	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-04	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
L-04	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---	---
RSDS-LC01	11/23/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
RSDS-LC01	3/31/2011	Primary	---	---	---	---	---	---	---	---	---	---	---

Table E-3
RSDS Phenol and VOC Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Chloroform Total (ug/L)	Chloromethane Total (ug/L)	2-Chlortoluene Total (ug/L)	4-Chlorotoluene Total (ug/L)	1,2-Dibromo-3-chloropropane Total (ug/L)	Dibromochloromethane Total (ug/L)	1,2-Dibromoetha Total (ug/L)	Dibromomethane Total (ug/L)	1,2-Dichlorobenzene Total (ug/L)	1,3-Dichlorobenzene Total (ug/L)
15A NCAC 02L	Groundwater	Class GA Stds	70	3	100	---	0.04	0.4	0.02	---	20	200
NC-2L-GW IMAC			---	---	---	24	---	---	---	70	---	---
NC-GWP Stds			---	---	---	24	---	0.41	---	70	---	---
L-01	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---
L-01	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---
L-01	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---
L-01	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-01	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---
L-01	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---
L-01	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-01	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---
L-01	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---
L-01	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-01	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---
L-01	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---
L-01	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-01	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
L-01	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---
L-01	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---
L-02	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---
L-02	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---
L-02	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---
L-02	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-02	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---
L-02	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---
L-02	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-02	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---
L-02	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---
L-02	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-02	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---
L-02	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---
L-02	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-02	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
L-02	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---
L-02	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---
L-03	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---
L-03	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---
L-03	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---
L-03	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-03	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---

Table E-3
RSDS Phenol and VOC Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Chloroform Total (ug/L)	Chloromethane Total (ug/L)	2-Chlortoluene Total (ug/L)	4-Chlorotoluene Total (ug/L)	1,2-Dibromo-3-chloropropane Total (ug/L)	Dibromochloromethane Total (ug/L)	1,2-Dibromoetha Total (ug/L)	Dibromomethane Total (ug/L)	1,2-Dichlorobenzene Total (ug/L)	1,3-Dichlorobenzene Total (ug/L)
15A NCAC 02L	Groundwater	Class GA Stds	70	3	100	---	0.04	0.4	0.02	---	20	200
NC-2L-GW IMAC			---	---	---	24	---	---	---	70	---	---
NC-GWP Stds			---	---	---	24	---	0.41	---	70	---	---
L-03	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---
L-03	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-03	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---
L-03	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---
L-03	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-03	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---
L-03	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---
L-03	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-03	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
L-03	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---
L-03	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---
L-04	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---
L-04	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---
L-04	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---
L-04	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-04	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---
L-04	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---
L-04	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-04	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---
L-04	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---
L-04	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-04	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---
L-04	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---
L-04	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-04	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
L-04	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---
L-04	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---
RSDS-LC01	11/23/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
RSDS-LC01	3/31/2011	Primary	---	---	---	---	---	---	---	---	---	---

Table E-3
RSDS Phenol and VOC Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	1,4-Dichloro benzene Total (ug/L)	Dichloro difluoromethane Total (ug/L)	1,1-Dichloro ethane Total (ug/L)	1,2-Dichloro ethane Total (ug/L)	1,1-Dichloro ethene Total (ug/L)	cis-1,2-Dichloroethene Total (ug/L)	trans-1,2-Dichloroethene Total (ug/L)	1,2-Dichloro propane Total (ug/L)	1,3-Dichloro propane Total (ug/L)	2,2-Dichloropropane Total (ug/L)	1,1-Dichloro propene Total (ug/L)
15A NCAC 02L	Groundwater	Class GA Stds	6	1000	6	0.4	7	70	100	0.6	---	---	---
NC-2L-GW IMAC			---	---	---	---	---	---	---	---	---	---	---
NC-GWP Stds			---	---	---	---	---	---	---	---	---	---	---
L-01	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-01	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-01	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-01	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-01	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
L-01	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---	---
L-01	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-02	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-02	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-02	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-02	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
L-02	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---	---
L-02	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-03	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---	---

Table E-3
RSDS Phenol and VOC Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	1,4-Dichloro benzene Total (ug/L)	Dichloro difluoromethane Total (ug/L)	1,1-Dichloro ethane Total (ug/L)	1,2-Dichloro ethane Total (ug/L)	1,1-Dichloro ethene Total (ug/L)	cis-1,2-Dichloroethene Total (ug/L)	trans-1,2-Dichloroethene Total (ug/L)	1,2-Dichloro propane Total (ug/L)	1,3-Dichloro propane Total (ug/L)	2,2-Dichloropropane Total (ug/L)	1,1-Dichloro propene Total (ug/L)
15A NCAC 02L	Groundwater	Class GA Stds	6	1000	6	0.4	7	70	100	0.6	---	---	---
NC-2L-GW IMAC			---	---	---	---	---	---	---	---	---	---	---
NC-GWP Stds			---	---	---	---	---	---	---	---	---	---	---
L-03	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-03	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-03	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-03	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
L-03	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---	---
L-03	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-04	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-04	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-04	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-04	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
L-04	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---	---
L-04	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---	---
RSDS-LC01	11/23/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
RSDS-LC01	3/31/2011	Primary	---	---	---	---	---	---	---	---	---	---	---

Table E-3
RSDS Phenol and VOC Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	cis-1,3-Dichloropropene Total (ug/L)	Trans-1,3-Dichloropropene Total (ug/L)	Ethylbenzene Total (ug/L)	Hexachloro butadiene Total (ug/L)	Isopropyl benzene Total (ug/L)	4-Isopropyl toluene Total (ug/L)	Methyl tert-butyl ether Total (ug/L)	Methylene chloride Total (ug/L)	Naphthalene Total (ug/L)	n-Propyl benzene Total (ug/L)	Styrene Total (ug/L)	1,1,1,2-Tetrachloro ethane Total (ug/L)	1,1,2,2-Tetrachloro ethane Total (ug/L)
15A NCAC 02L	Groundwater	Class GA Stds	0.4	0.4	600	0.4	70	---	20	5	6	70	70	---	0.2
NC-2L-GW IMAC			---	---	---	---	---	25	---	---	---	---	---	1	---
NC-GWP Stds			---	---	---	0.44	---	25	---	---	---	---	---	1	0.18
L-01	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-01	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-01	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-01	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-01	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
L-01	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-02	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-02	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-02	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-02	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
L-02	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-03	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---

Table E-3
RSDS Phenol and VOC Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	cis-1,3-Dichloropropene Total (ug/L)	Trans-1,3-Dichloropropene Total (ug/L)	Ethylbenzene Total (ug/L)	Hexachlorobutadiene Total (ug/L)	Isopropylbenzene Total (ug/L)	4-Isopropyltoluene Total (ug/L)	Methyl tert-butyl ether Total (ug/L)	Methylene chloride Total (ug/L)	Naphthalene Total (ug/L)	n-Propylbenzene Total (ug/L)	Styrene Total (ug/L)	1,1,1,2-Tetrachloroethane Total (ug/L)	1,1,2,2-Tetrachloroethane Total (ug/L)
15A NCAC 02L	Groundwater	Class GA Stds	0.4	0.4	600	0.4	70	---	20	5	6	70	70	---	0.2
NC-2L-GW IMAC			---	---	---	---	---	25	---	---	---	---	---	1	---
NC-GWP Stds			---	---	---	0.44	---	25	---	---	---	---	---	1	0.18
L-03	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-03	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-03	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-03	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
L-03	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-04	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-04	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-04	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
L-04	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
L-04	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
RSDS-LC01	11/23/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
RSDS-LC01	3/31/2011	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---

Table E-3
RSDS Phenol and VOC Data
Weyerhaeuser New Bern Cellulose Fibers Mill

SITE_ID	DATE	RESULT TYPE	Tetrachloro ethene Total (ug/L)	Toluene Total (ug/L)	Trichloro benzene Total (ug/L)	1,2,4-Trichloro benzene Total (ug/L)	1,1,1-Trichloro ethane Total (ug/L)	1,1,2-Trichloro ethane Total (ug/L)	Trichloroethene Total (ug/L)	Trichloro fluoromethane Total (ug/L)	1,2,3-Trichloro propane Total (ug/L)	1,2,4-Trimethyl benzene Total (ug/L)	1,3,5-Trimethyl benzene Total (ug/L)	Vinyl chloride Total (ug/L)	Xylene (total) Total (ug/L)
15A NCAC 02L	Groundwater	Class GA Stds	0.7	600	---	70	200	---	3	2000	0.005	400	400	0.03	500
NC-2L-GW IMAC			---	---	---	---	---	0.6	---	---	---	---	---	---	---
NC-GWP Stds			---	---	---	70	---	0.6	---	---	---	---	---	---	---
L-01	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
L-01	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
L-01	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
L-01	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
L-01	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00
L-01	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-01	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
L-02	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
L-02	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
L-02	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
L-02	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00
L-02	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-02	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
L-03	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---

Table E-3
RSDS Phenol and VOC Data
Weyerhaeuser New Bern Cellulose Fibers Mill

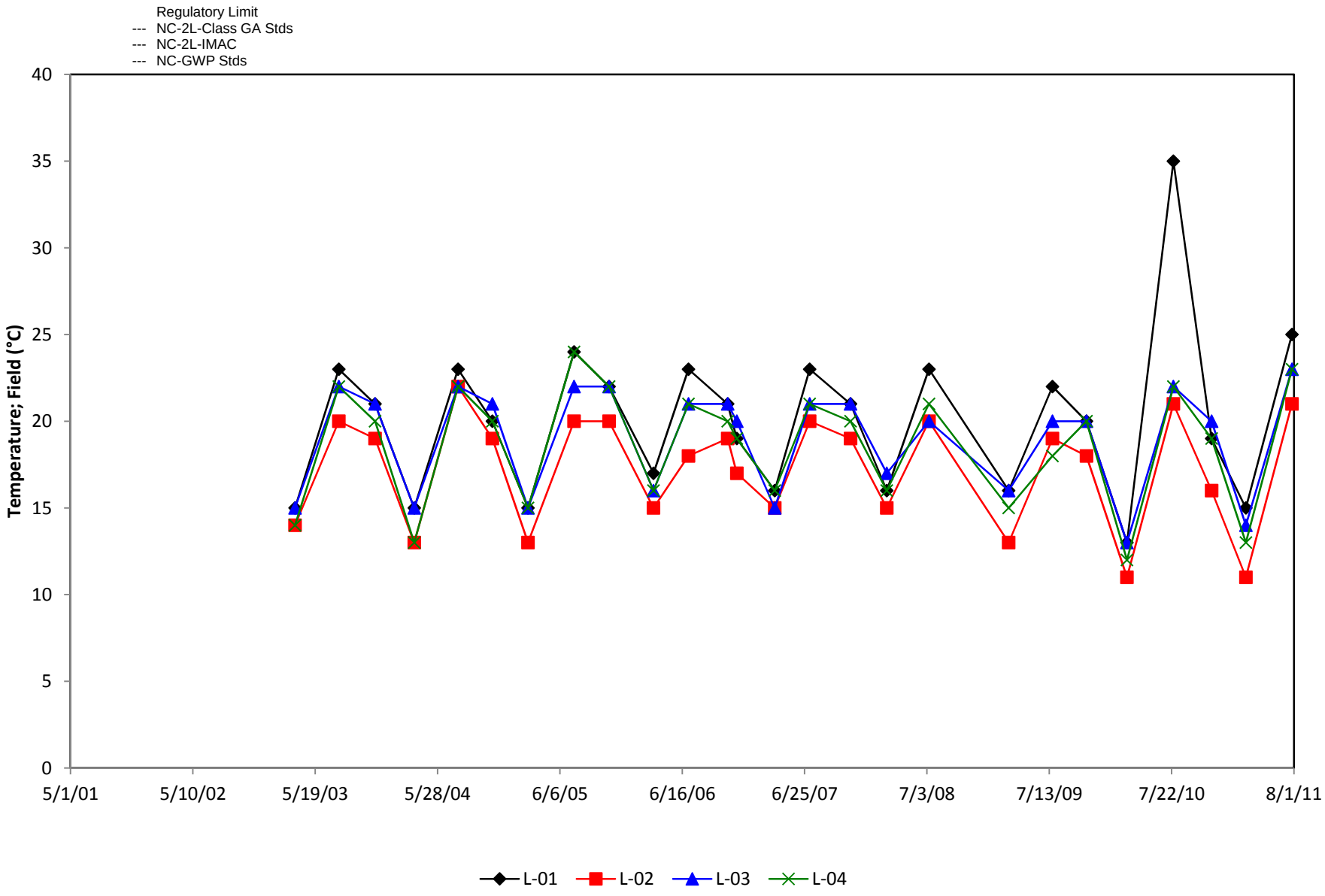
SITE_ID	DATE	RESULT TYPE	Tetrachloro ethene Total (ug/L)	Toluene Total (ug/L)	Trichloro benzene Total (ug/L)	1,2,4-Trichloro benzene Total (ug/L)	1,1,1-Trichloro ethane Total (ug/L)	1,1,2-Trichloro ethane Total (ug/L)	Trichloroethene Total (ug/L)	Trichloro fluoromethane Total (ug/L)	1,2,3-Trichloro propane Total (ug/L)	1,2,4-Trimethyl benzene Total (ug/L)	1,3,5-Trimethyl benzene Total (ug/L)	Vinyl chloride Total (ug/L)	Xylene (total) Total (ug/L)
15A NCAC 02L	Groundwater	Class GA Stds	0.7	600	---	70	200	---	3	2000	0.005	400	400	0.03	500
NC-2L-GW IMAC			---	---	---	---	---	0.6	---	---	---	---	---	---	---
NC-GWP Stds			---	---	---	70	---	0.6	---	---	---	---	---	---	---
L-03	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
L-03	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
L-03	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
L-03	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00
L-03	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-03	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	11/19/2003	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	11/4/2005	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	11/2/2006	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	11/30/2006	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
L-04	3/26/2007	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	7/11/2007	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	11/13/2007	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
L-04	3/3/2008	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	7/10/2008	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	11/12/2008	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
L-04	3/11/2009	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	7/23/2009	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	11/4/2009	Primary	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1
L-04	11/22/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00
L-04	3/7/2011	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
L-04	7/29/2011	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---
RSDS-LC01	11/23/2010	Primary	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<1.00
RSDS-LC01	3/31/2011	Primary	---	---	---	---	---	---	---	---	---	---	---	---	---

APPENDIX F

RSDS TIME-SERIES PLOTS

RSDS Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

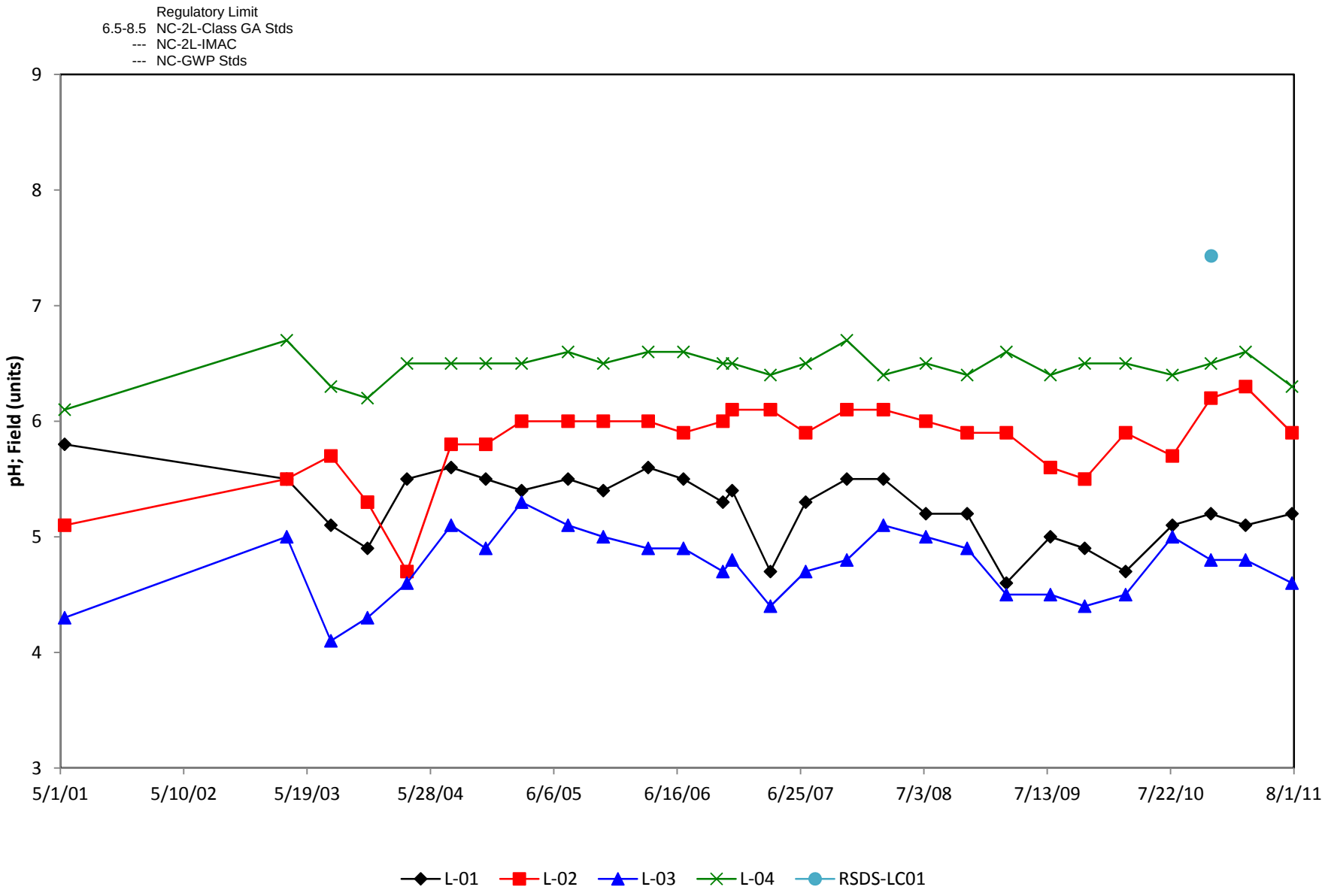


RSDS GenChem and Mets.xls 3/13/2012

Figure F-1: Temperature; Field (°C)

RSDS Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

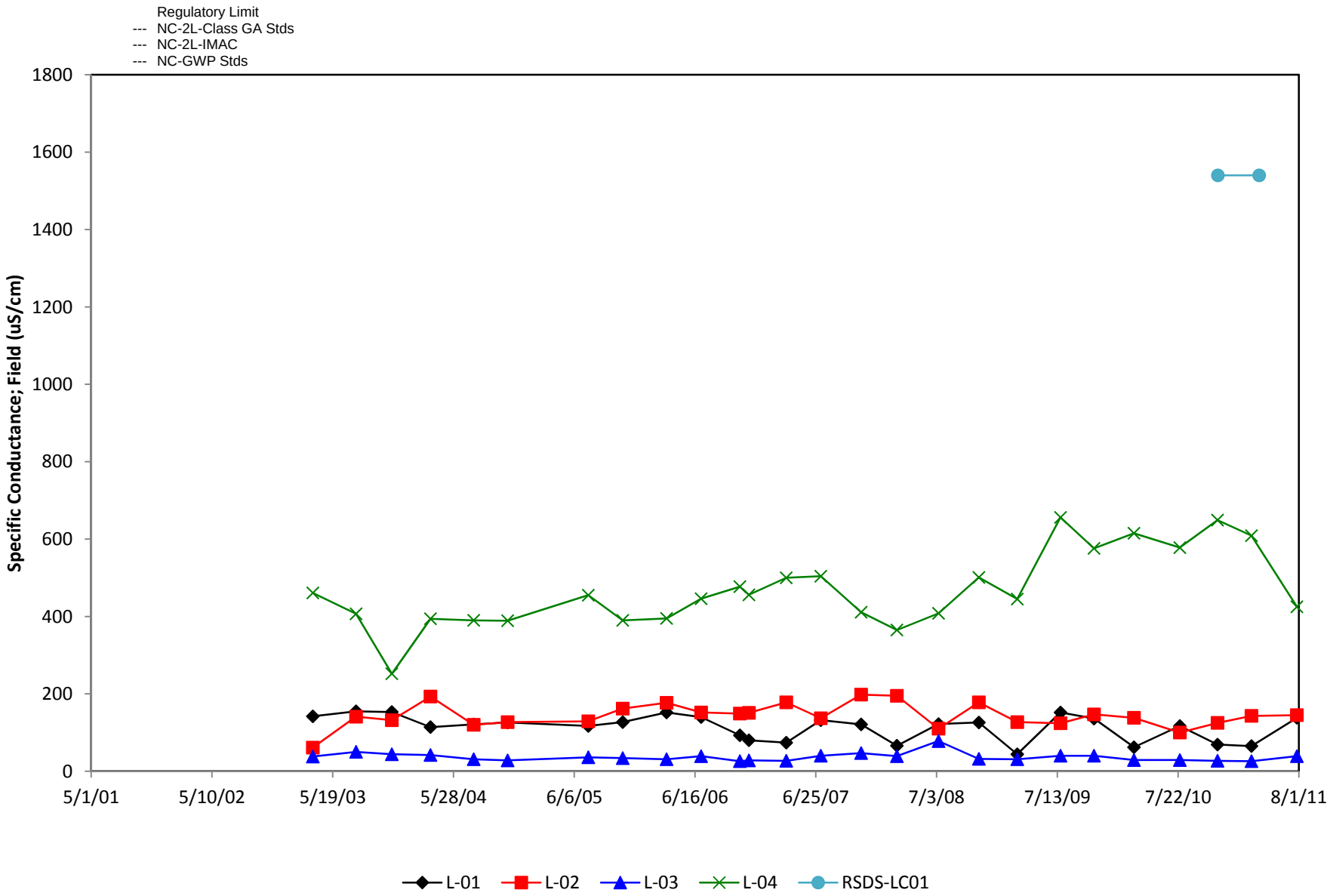


RSDS GenChem and Mets.xls 3/13/2012

Figure F-2: pH; Field (units)

RSDS Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

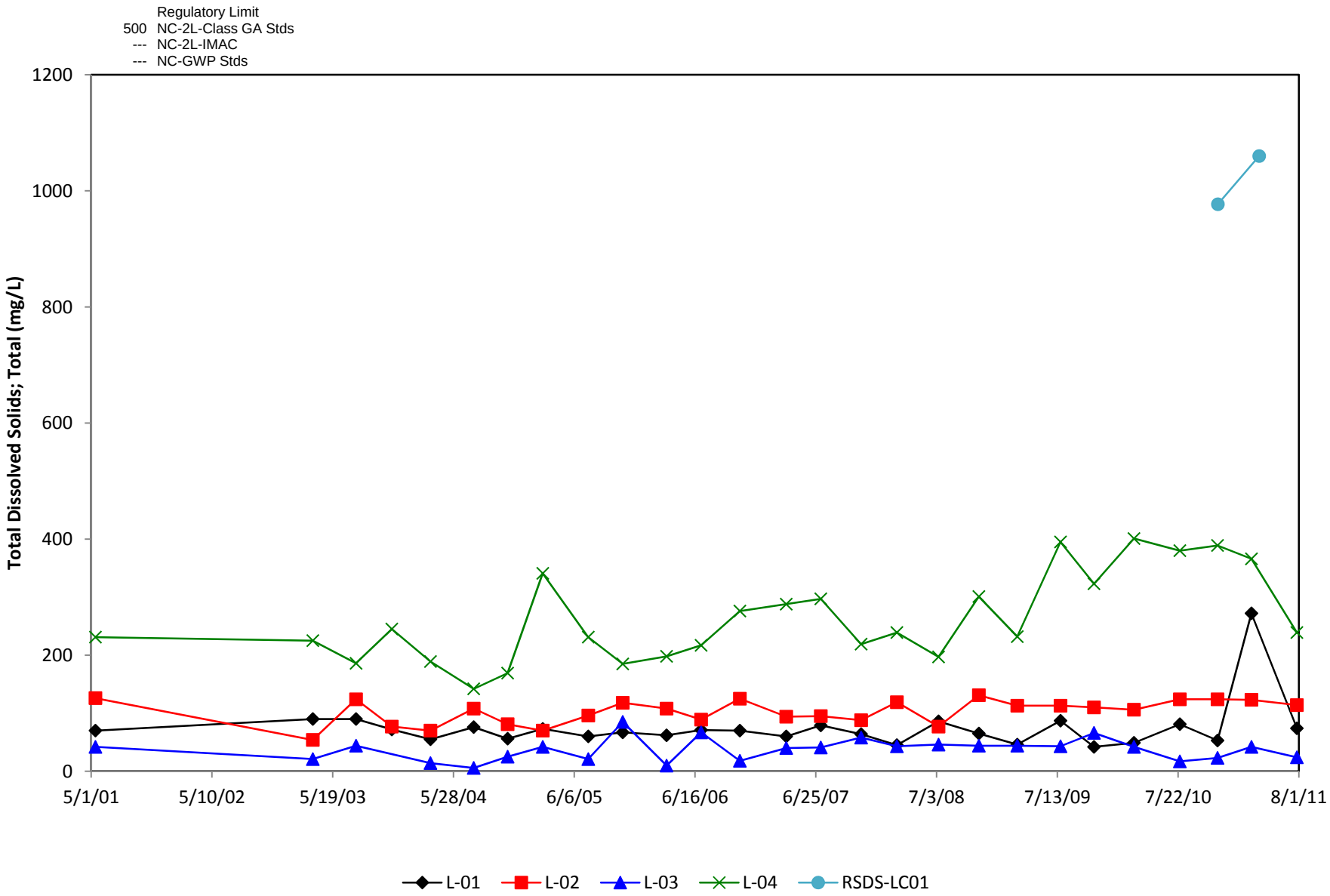


RSDS GenChem and Mets.xls 3/13/2012

Figure F-3: Specific Conductance; Field (uS/cm)

RSDS Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

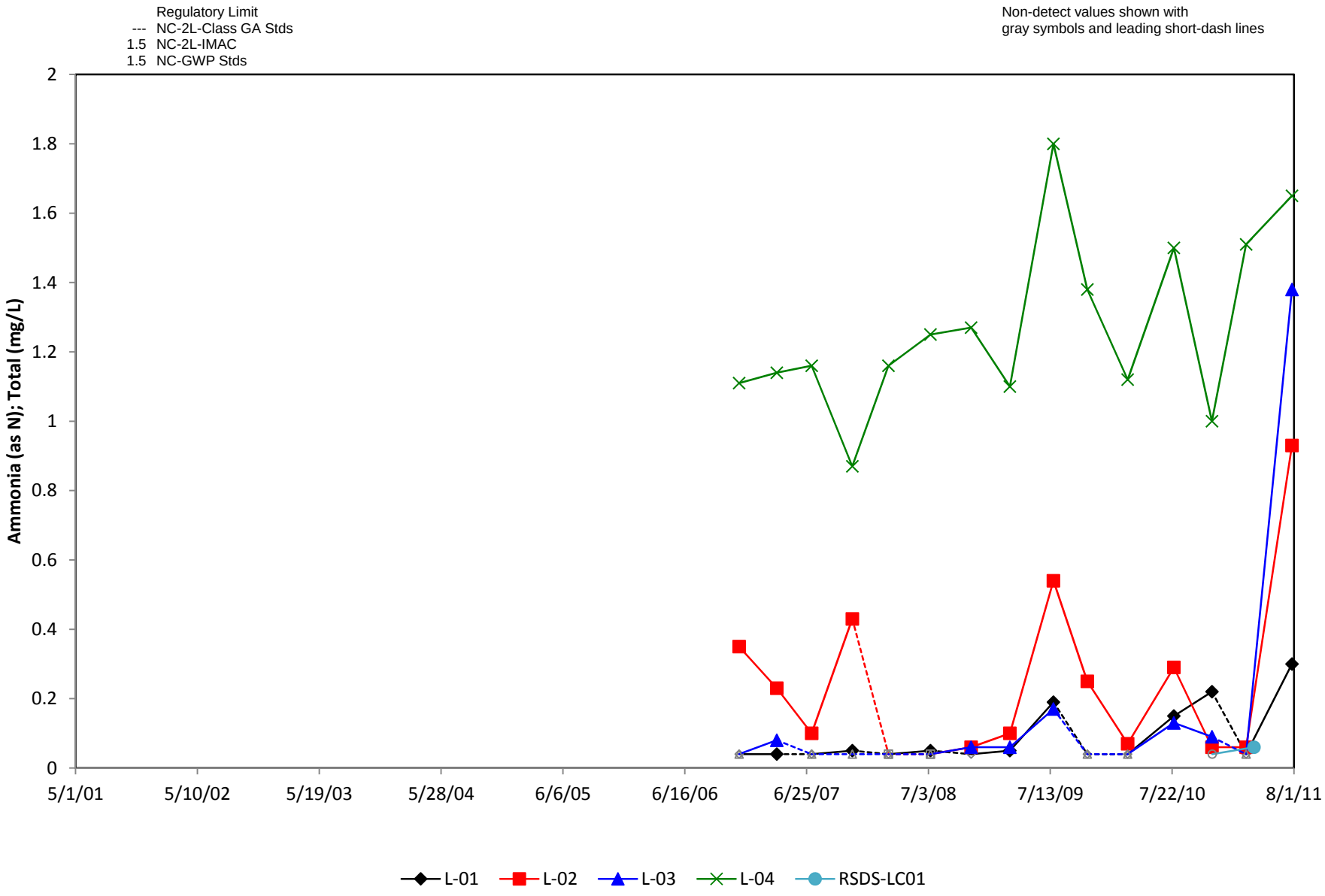


RSDS GenChem and Mets.xls 3/13/2012

Figure F-4: Total Dissolved Solids; Total (mg/L)

RSDS Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

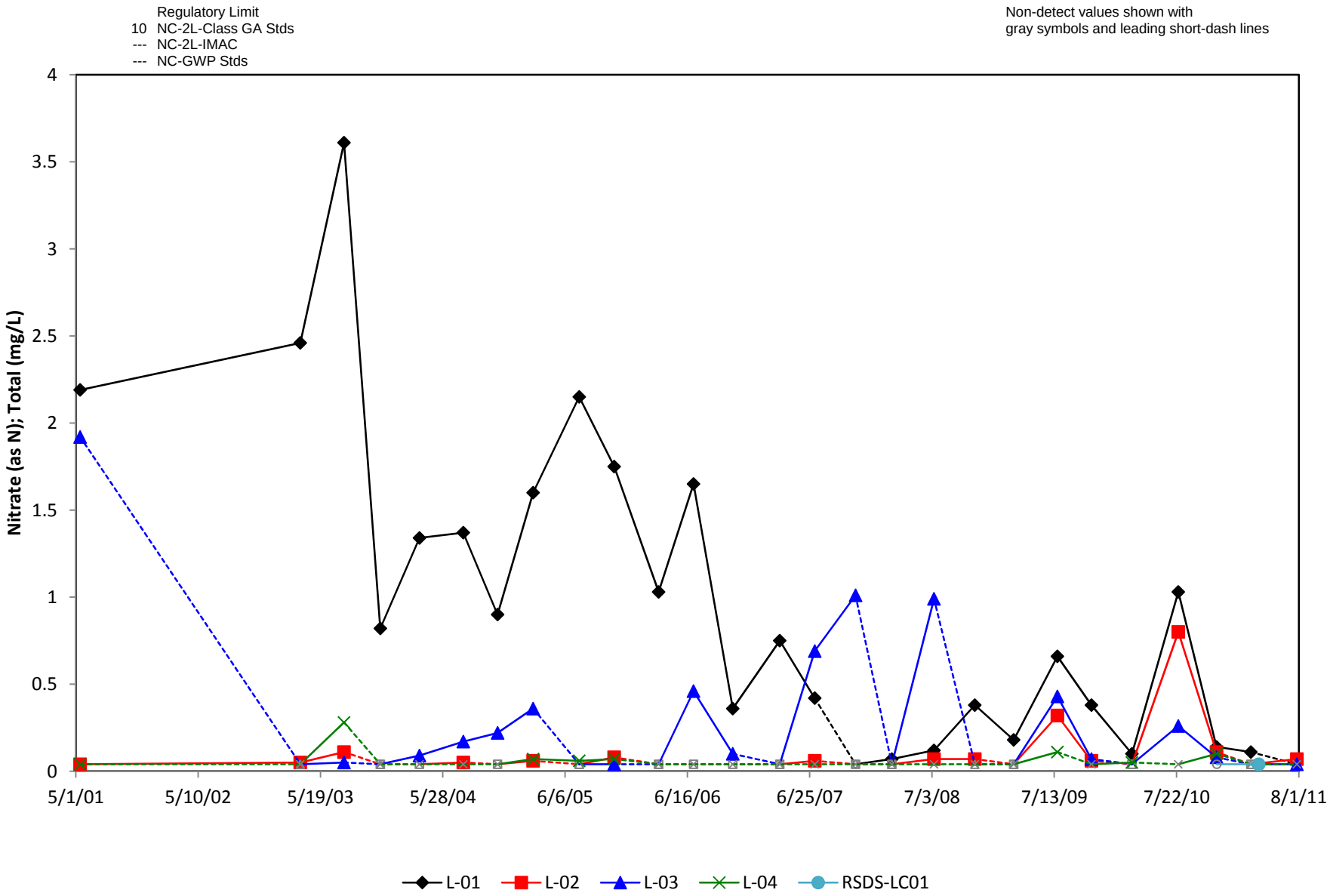


RSDS GenChem and Mets.xls 3/13/2012

Figure F-5: Ammonia (as N); Total (mg/L)

RSDS Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

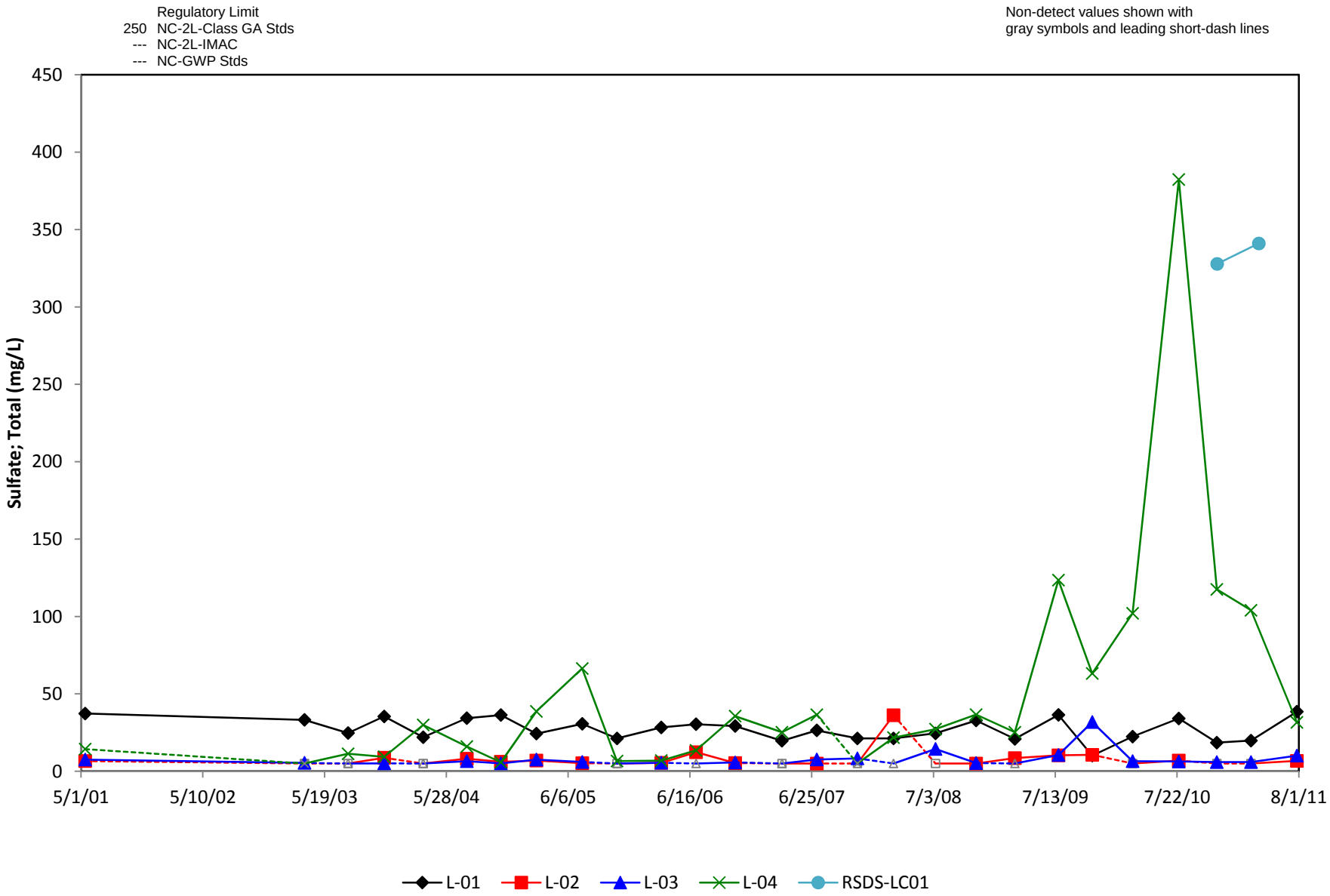


RSDS GenChem and Mets.xls 3/13/2012

Figure F-6: Nitrate (as N); Total (mg/L)

RSDS Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

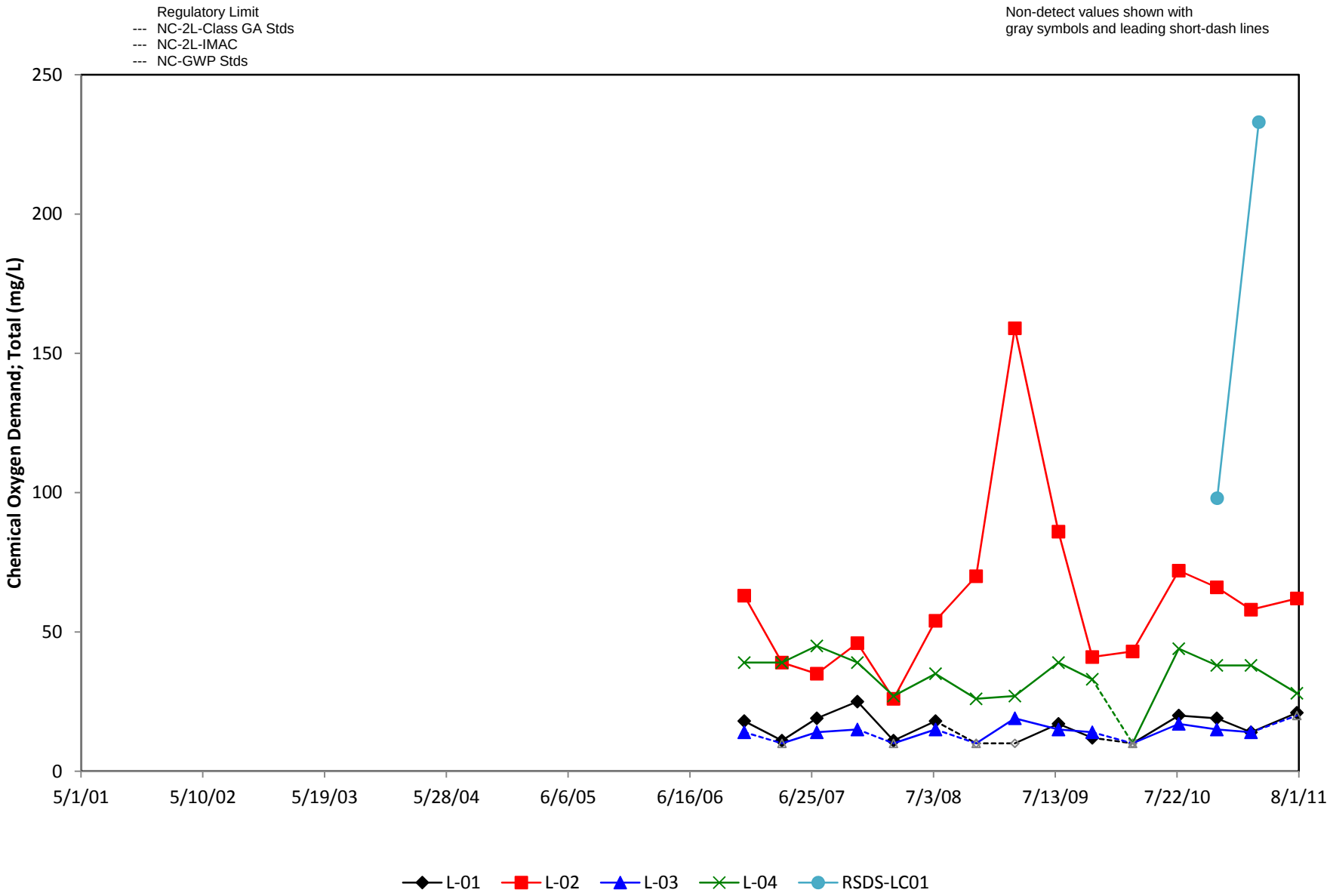


RSDS GenChem and Mets.xls 3/13/2012

Figure F-7: Sulfate; Total (mg/L)

RSDS Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

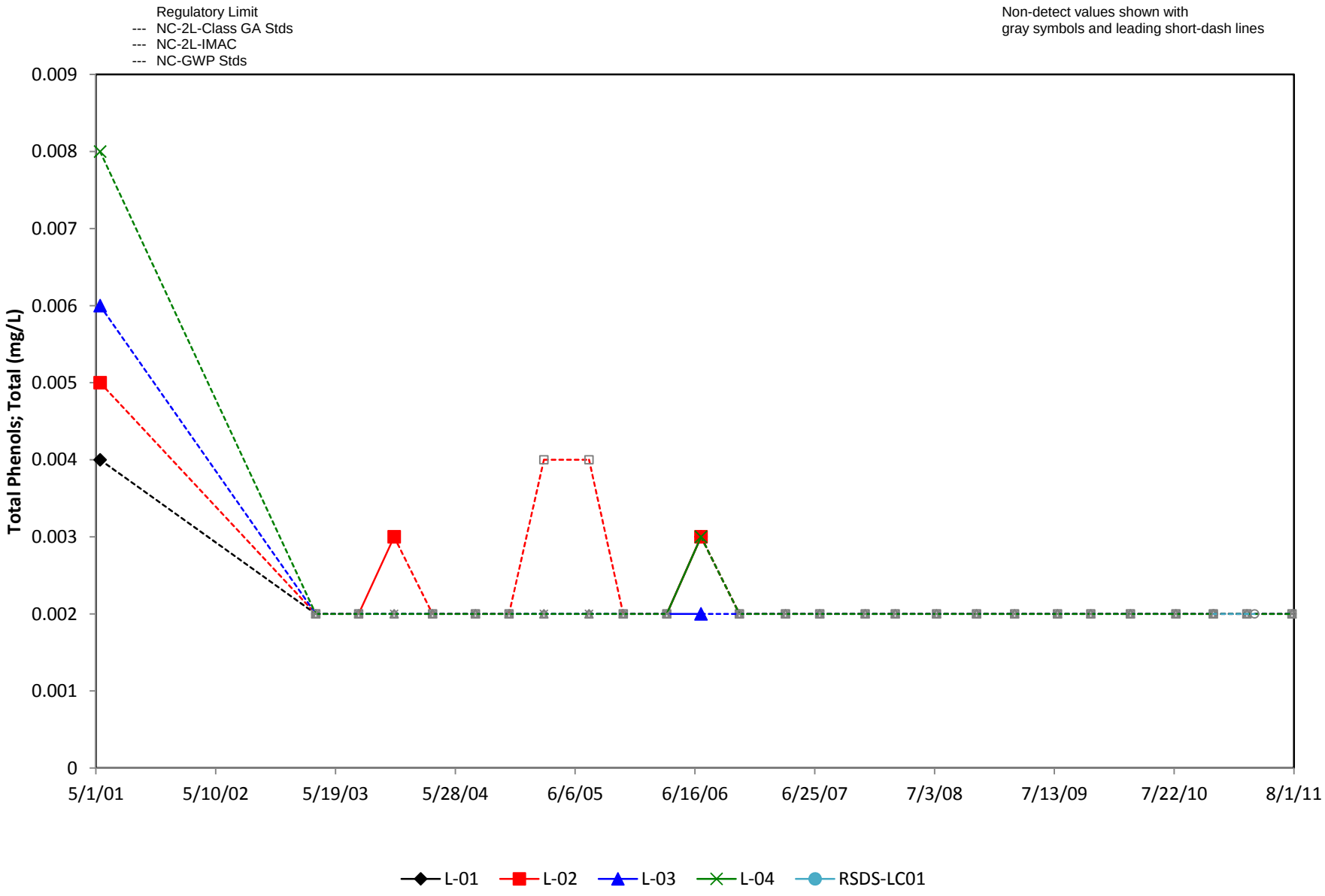


RSDS GenChem and Mets.xls 3/13/2012

Figure F-8: Chemical Oxygen Demand; Total (mg/L)

RSDS Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

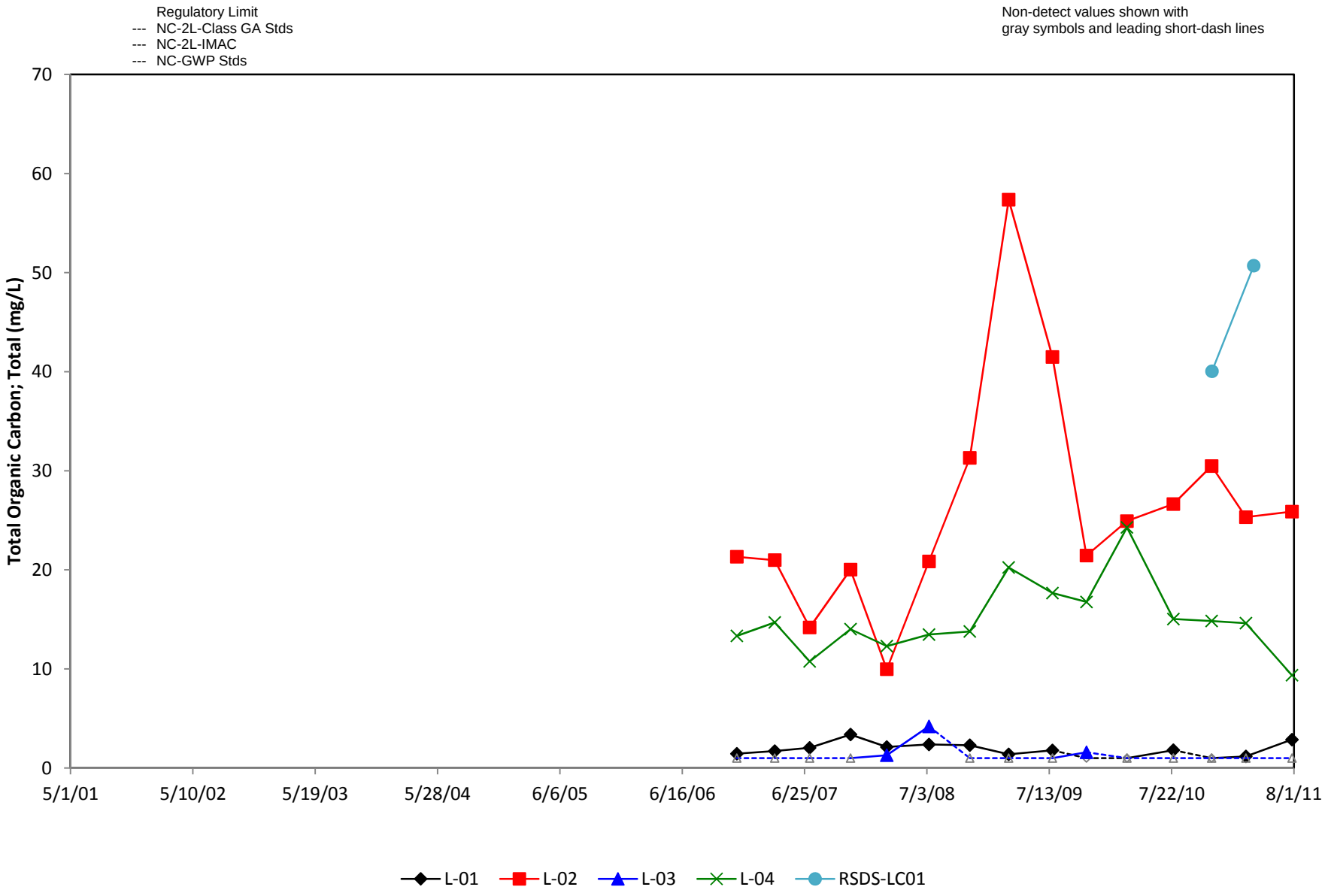


RSDS GenChem and Mets.xls 3/13/2012

Figure F-9: Total Phenols; Total (mg/L)

RSDS Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

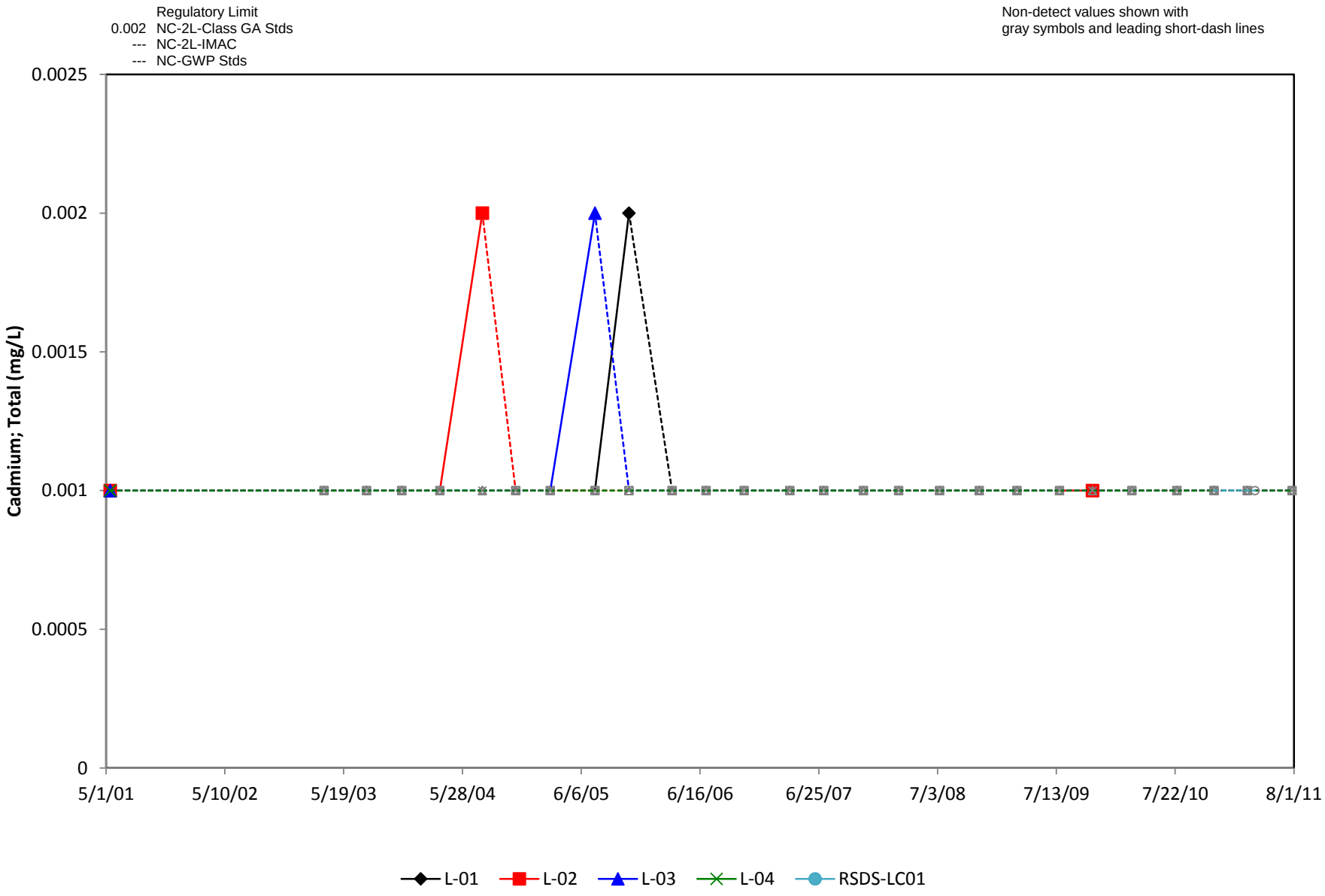


RSDS GenChem and Mets.xls 3/13/2012

Figure F-10: Total Organic Carbon; Total (mg/L)

RSDS Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

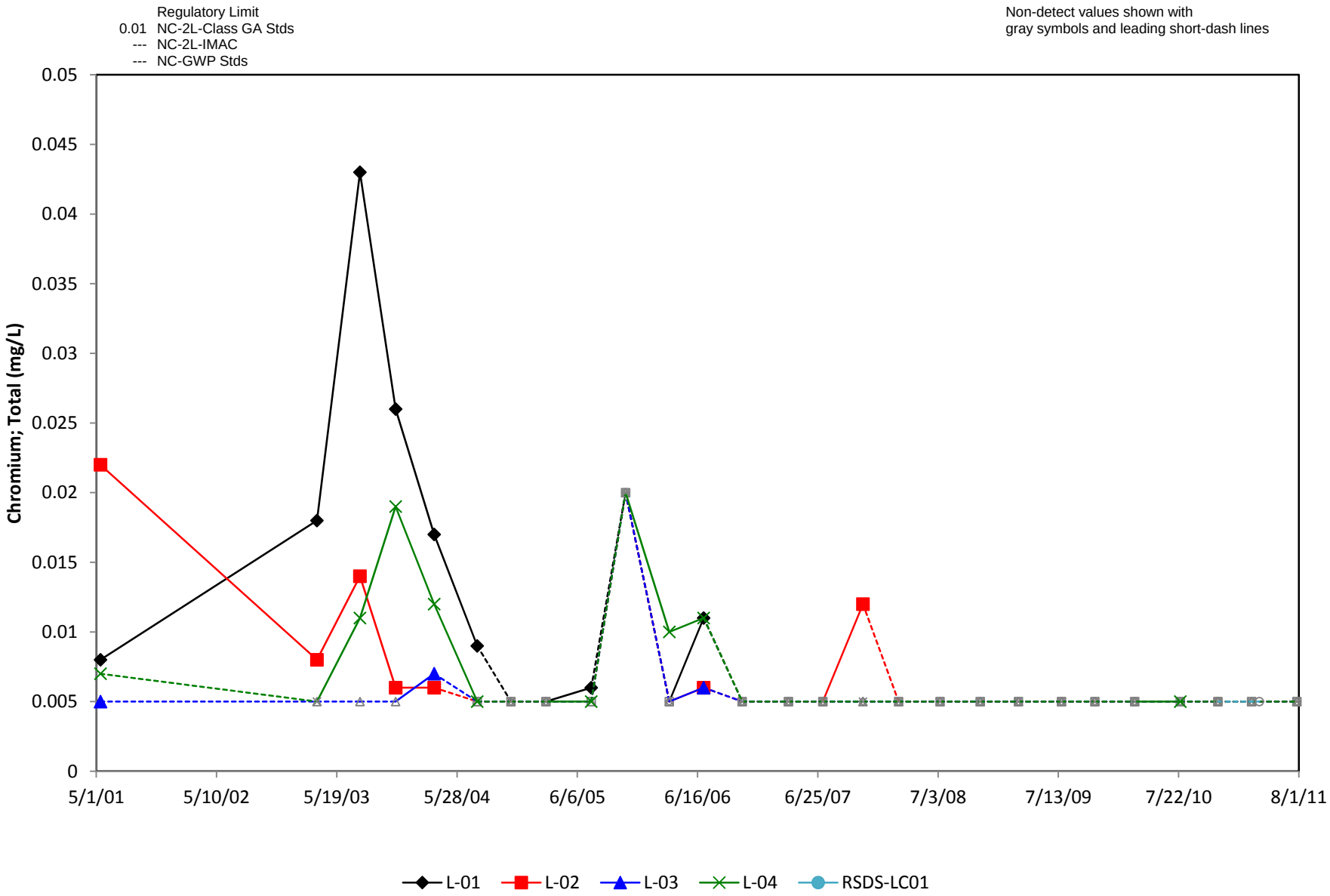


RSDS GenChem and Mets.xls 3/13/2012

Figure F-11: Cadmium; Total (mg/L)

RSDS Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

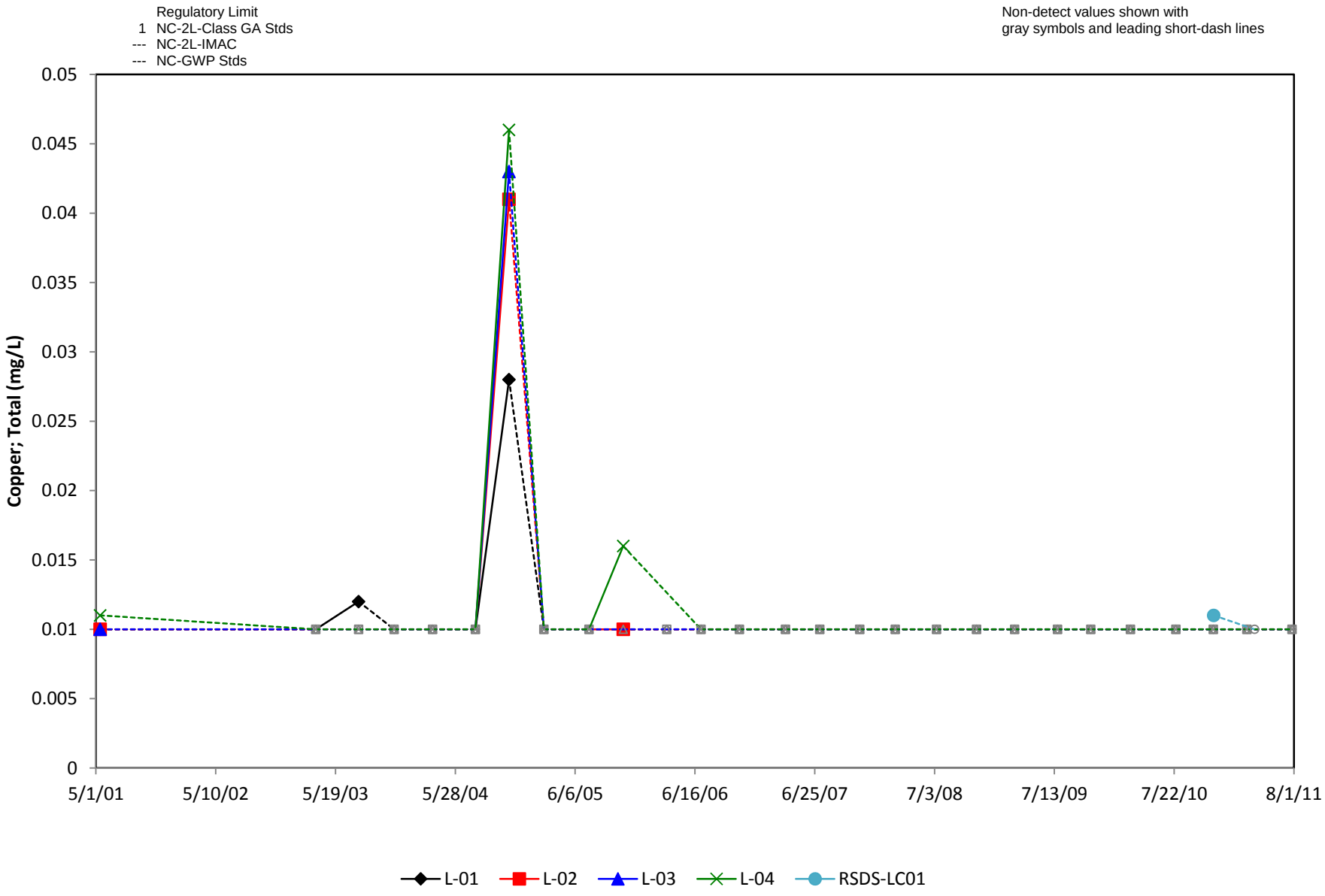


RSDS GenChem and Mets.xls 3/13/2012

Figure F-12: Chromium; Total (mg/L)

RSDS Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

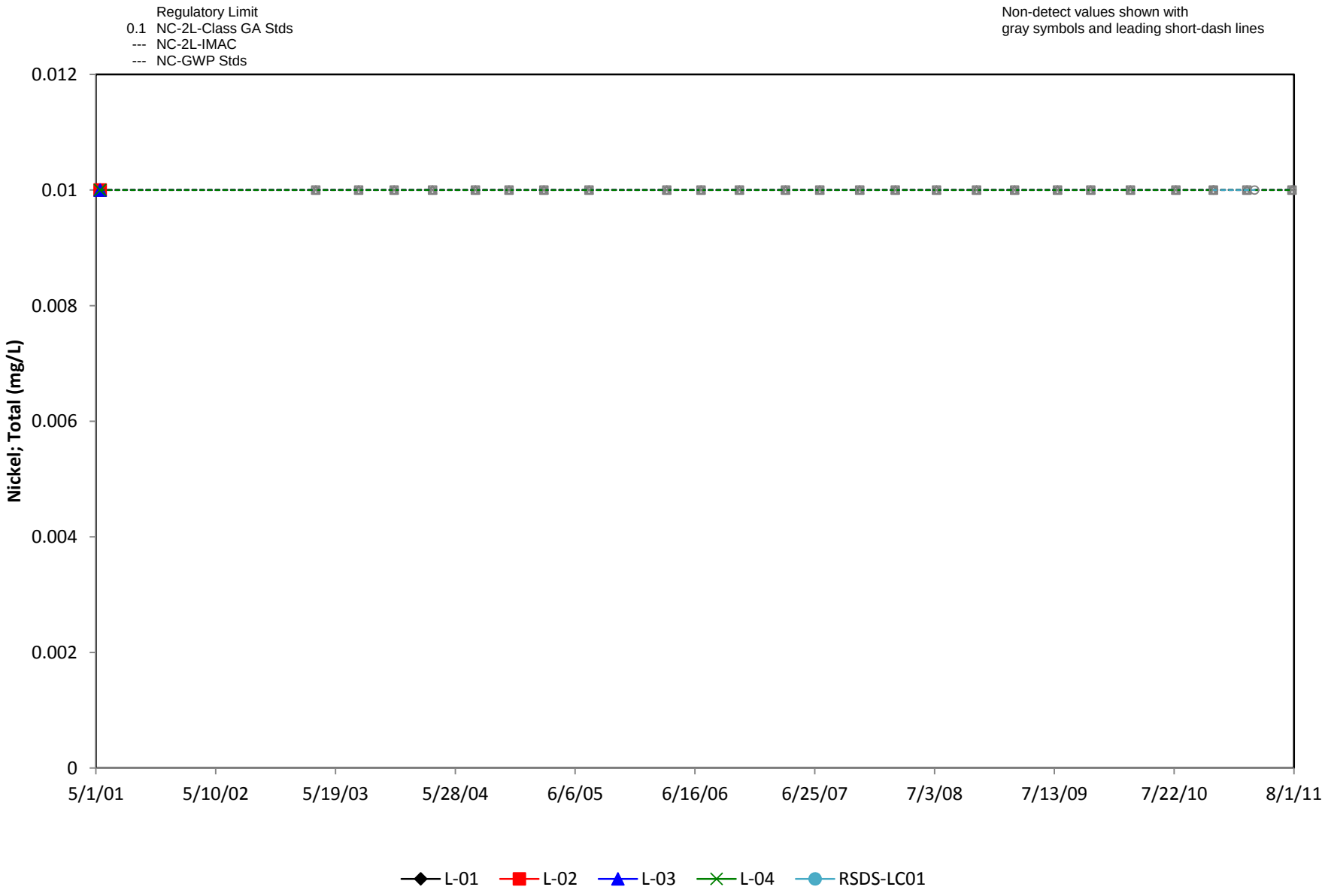


RSDS GenChem and Mets.xls 3/13/2012

Figure F-13: Copper; Total (mg/L)

RSDS Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.

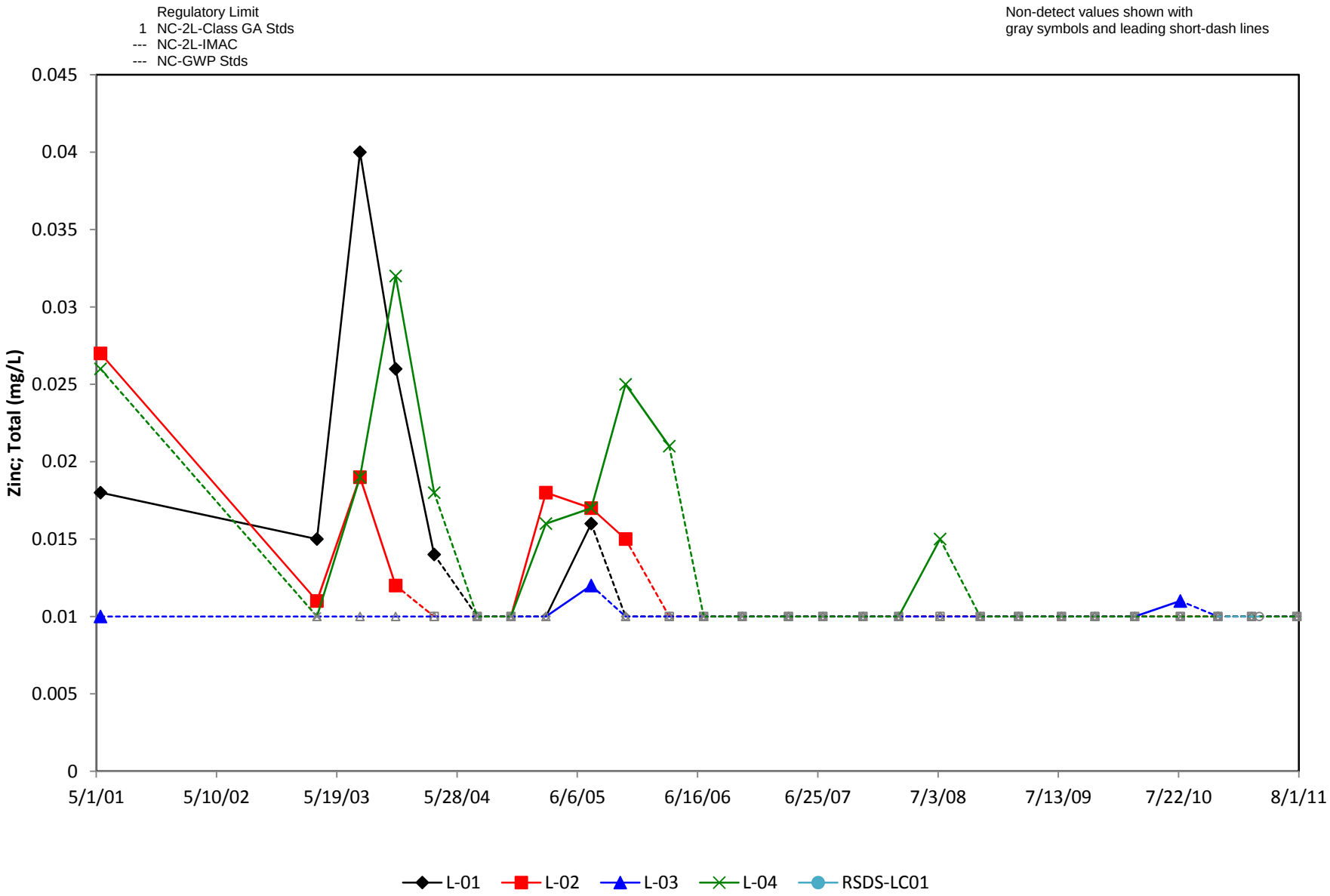


RSDS GenChem and Mets.xls 3/13/2012

Figure F-14: Nickel; Total (mg/L)

RSDS Chemistry Data
Weyerhaeuser New Bern Cellulose Fibers Mill

PES Environmental, Inc.



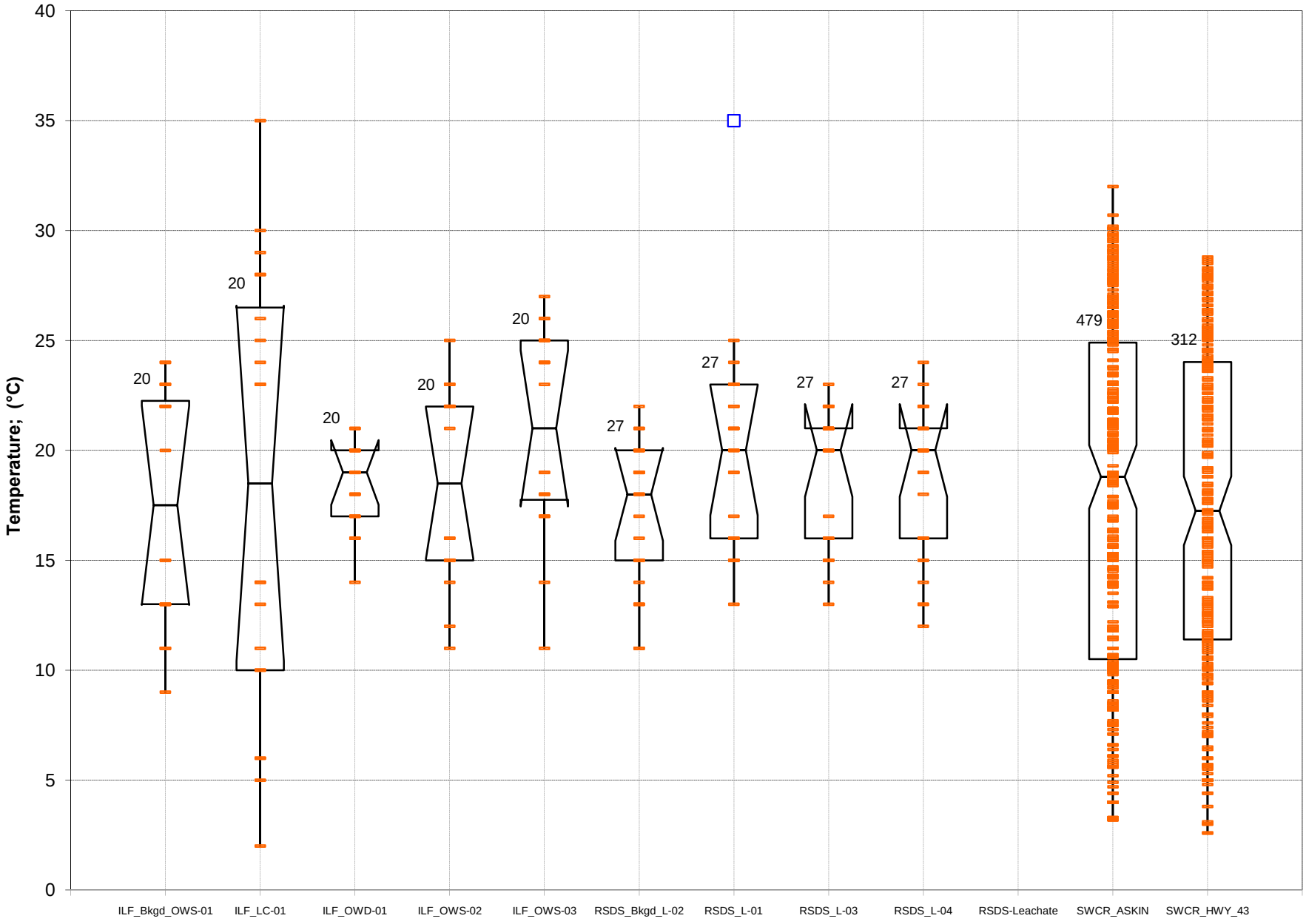
RSDS GenChem and Mets.xls 3/13/2012

Figure F-15: Zinc; Total (mg/L)

APPENDIX G

NOTCHED-BOX-AND-WHISKER PLOTS

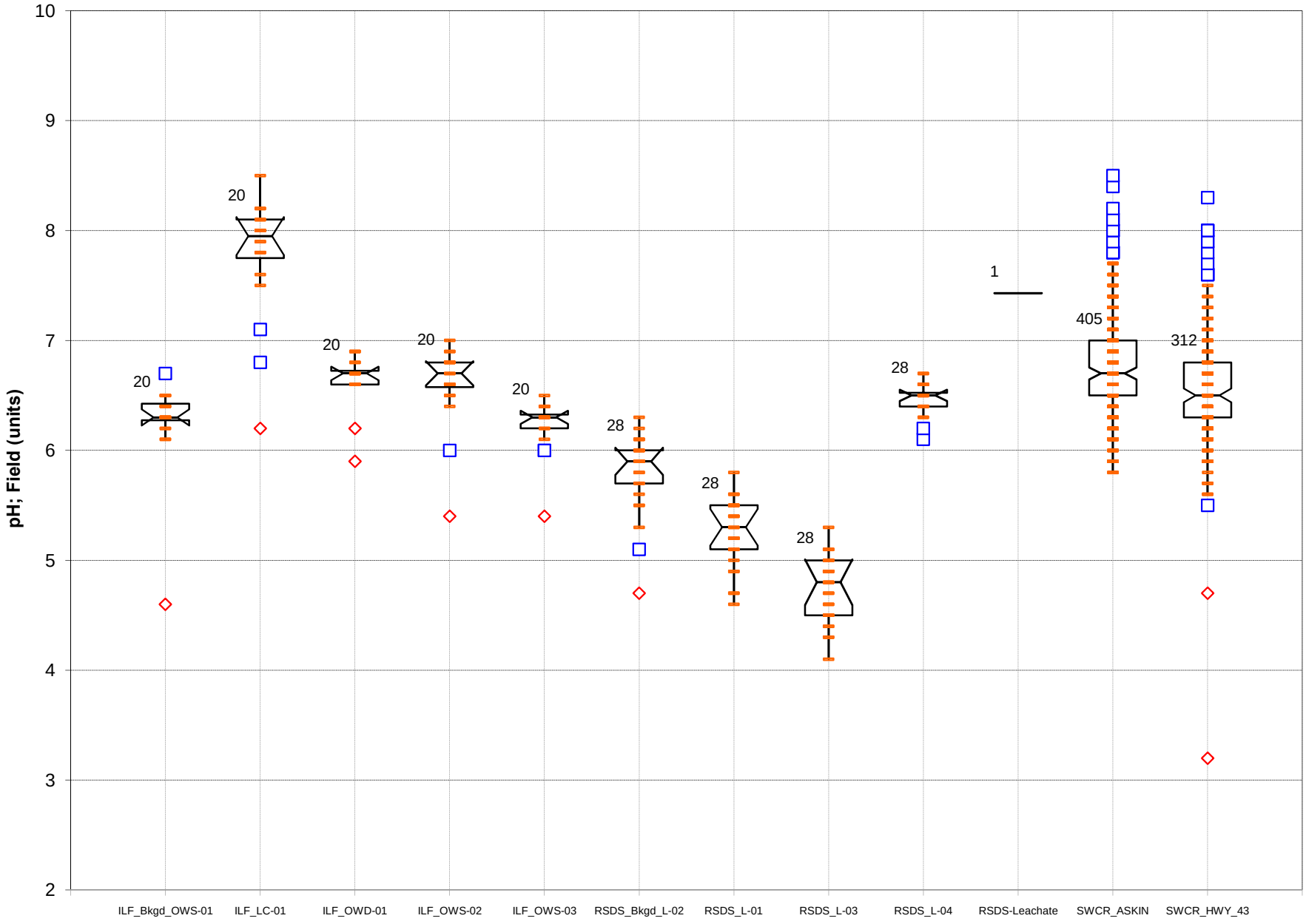
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill



App G box plots.xls1BOXTemperature; (1/20/2012

Figure G-1. Temperature; (°C)

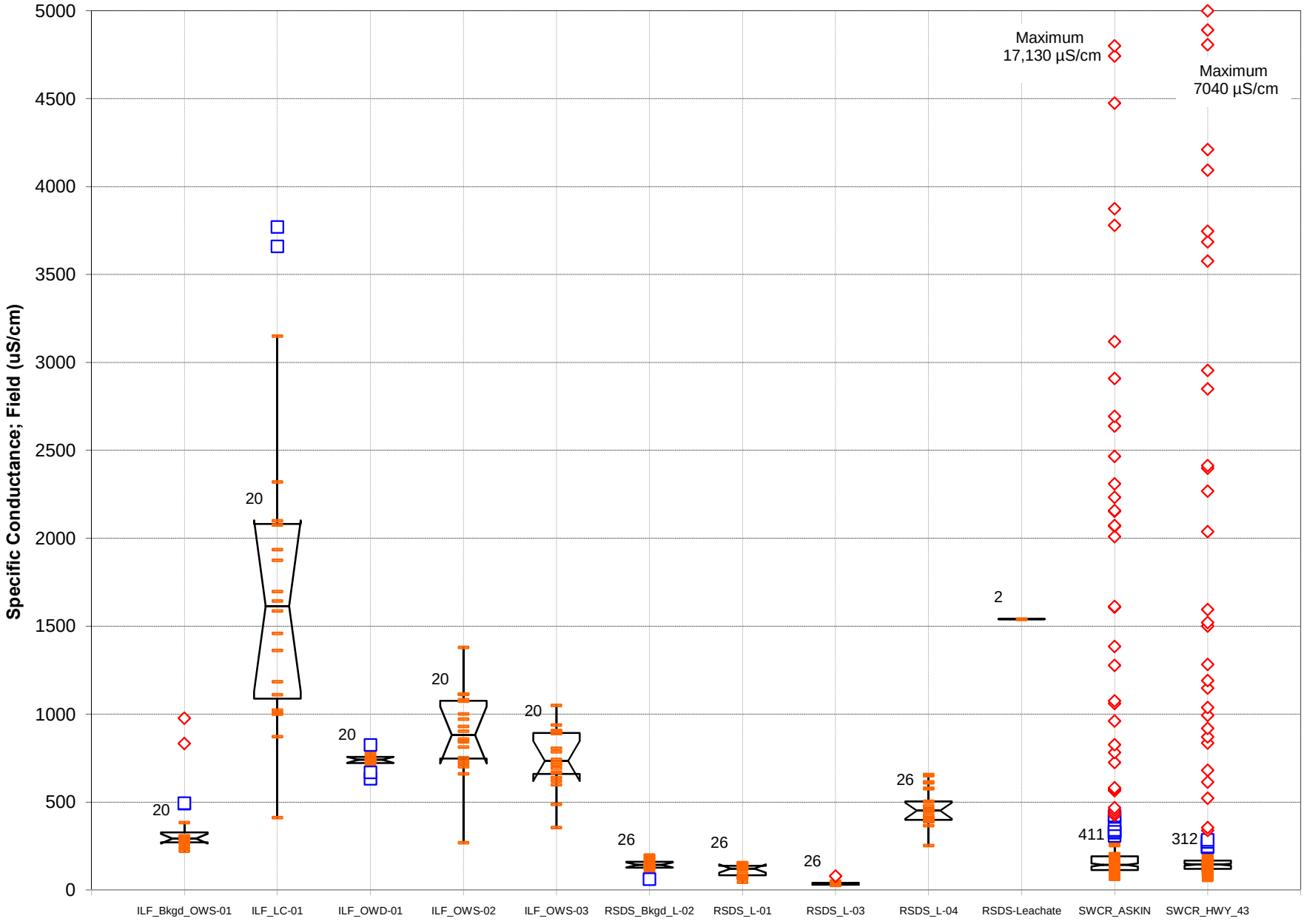
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill



App G box plots.xls2BOXpH; Field (unit1/20/2012

Figure G-2. pH; Field (units)

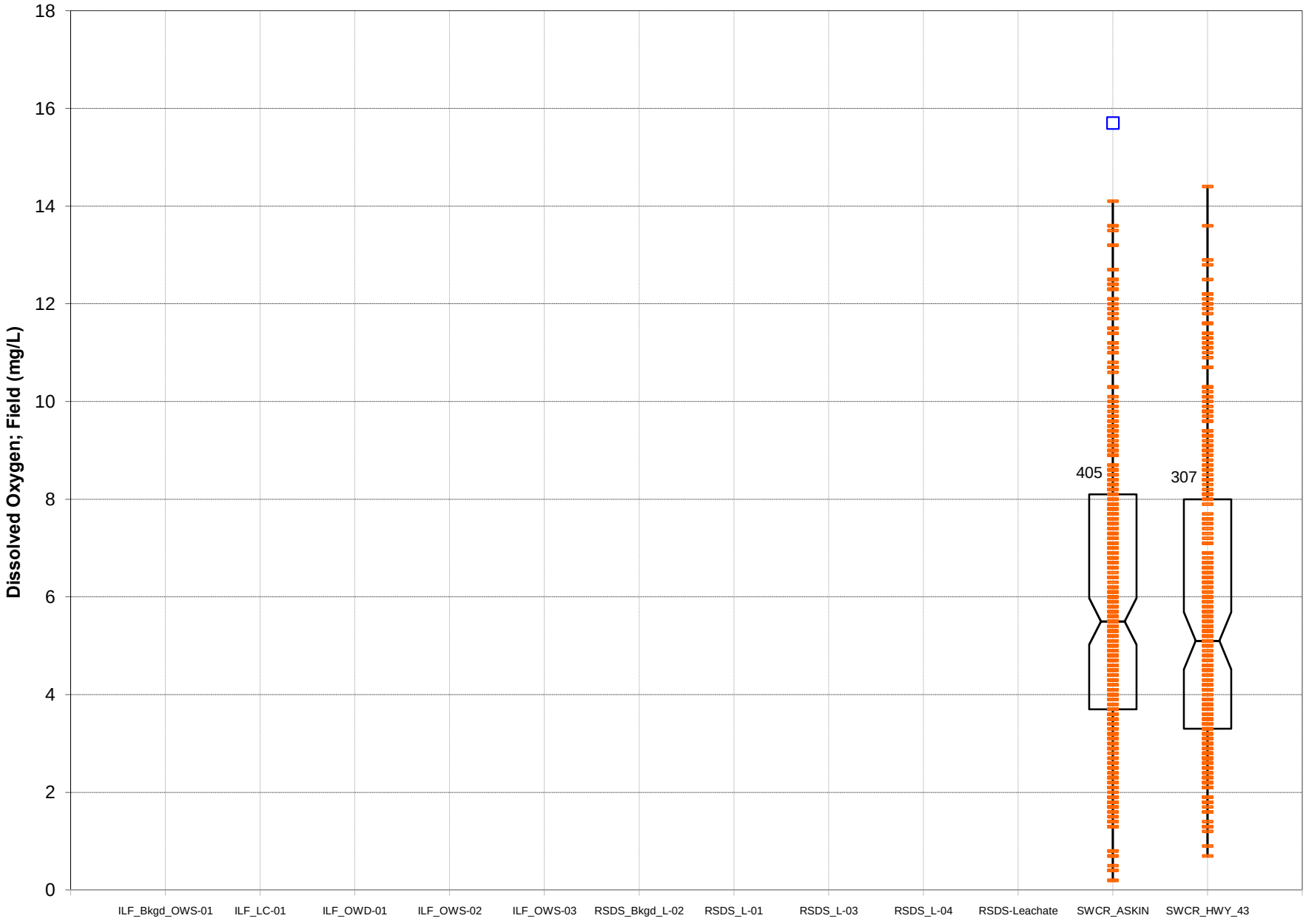
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill



App G box plots.xls3BOXSpecific Conduc1/20/2012

Figure G-3. Specific Conductance; Field (uS/cm)

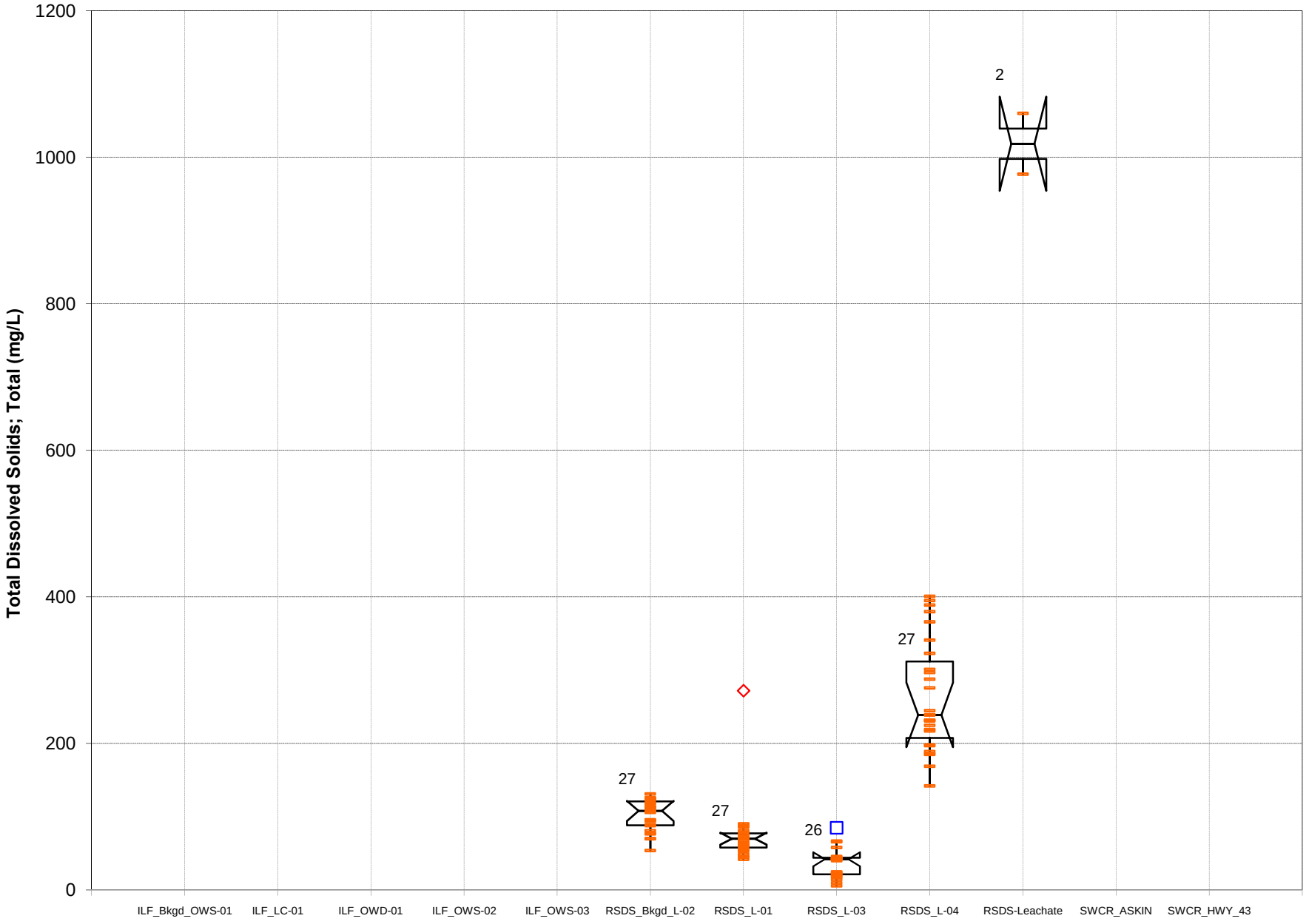
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill



App G box plots.xls4BOXDissolved Oxyge1/20/2012

Figure G-4. Dissolved Oxygen; Field (mg/L)

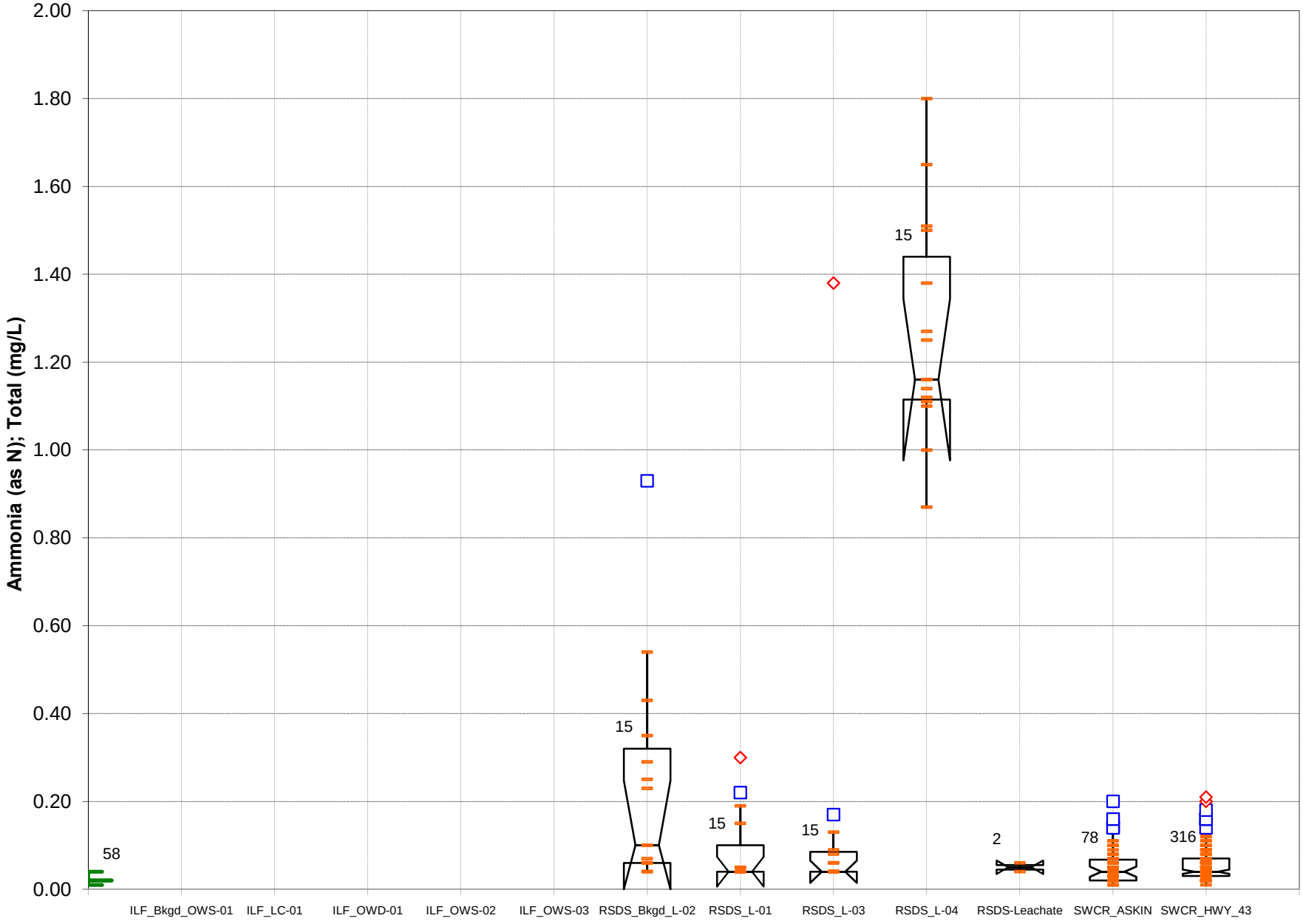
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill



App G box plots.xls5BOXTotal Dissolved1/20/2012

Figure G-5. Total Dissolved Solids; Total (mg/L)

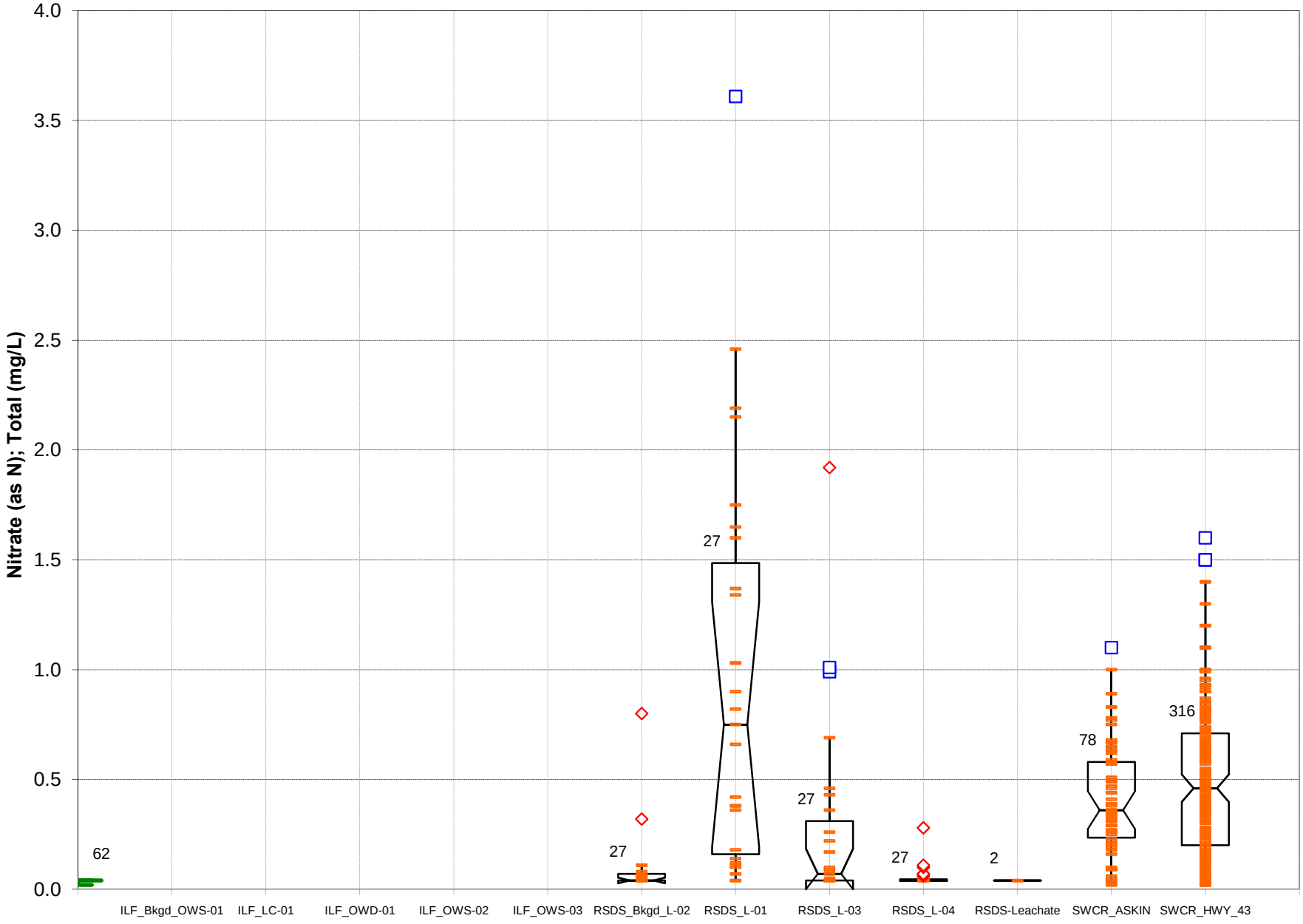
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls6BOXAmmonia (as N);1/22/2012

Figure G-6. Ammonia (as N); Total (mg/L)

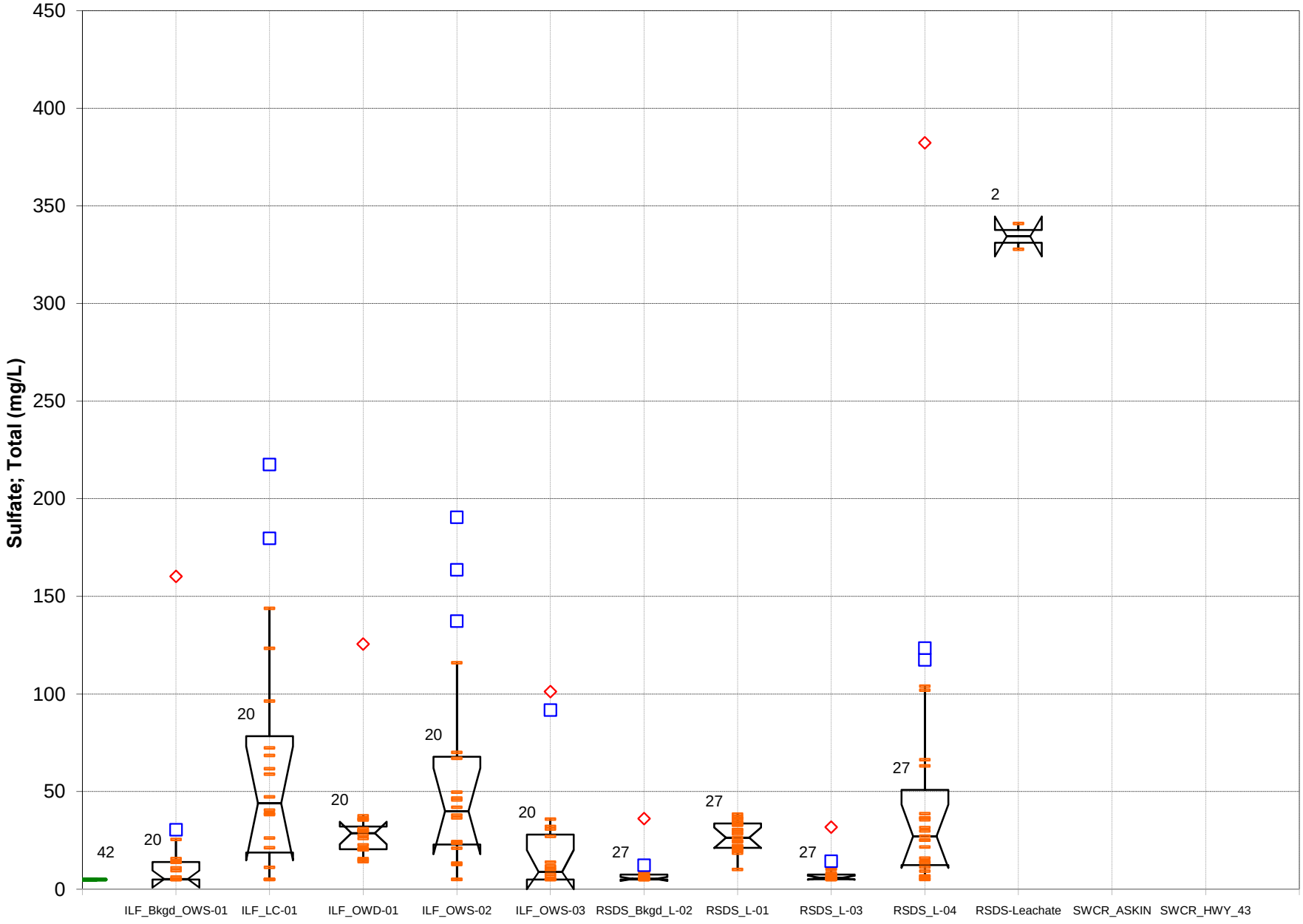
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls7BOXNitrate (as N);1/22/2012

Figure G-7. Nitrate (as N); Total (mg/L)

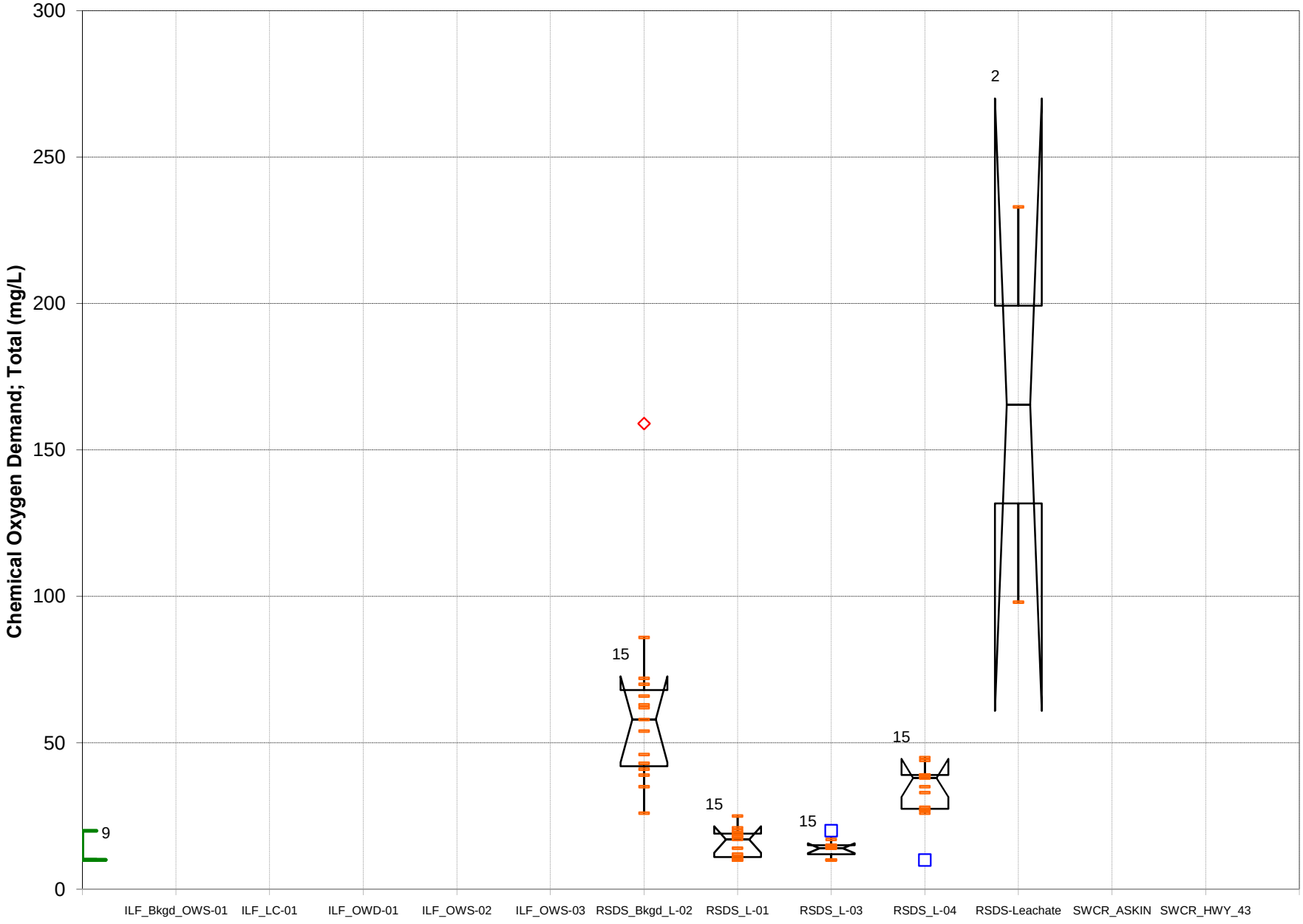
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls8BOXSulfate; Total1/22/2012

Figure G-8. Sulfate; Total (mg/L)

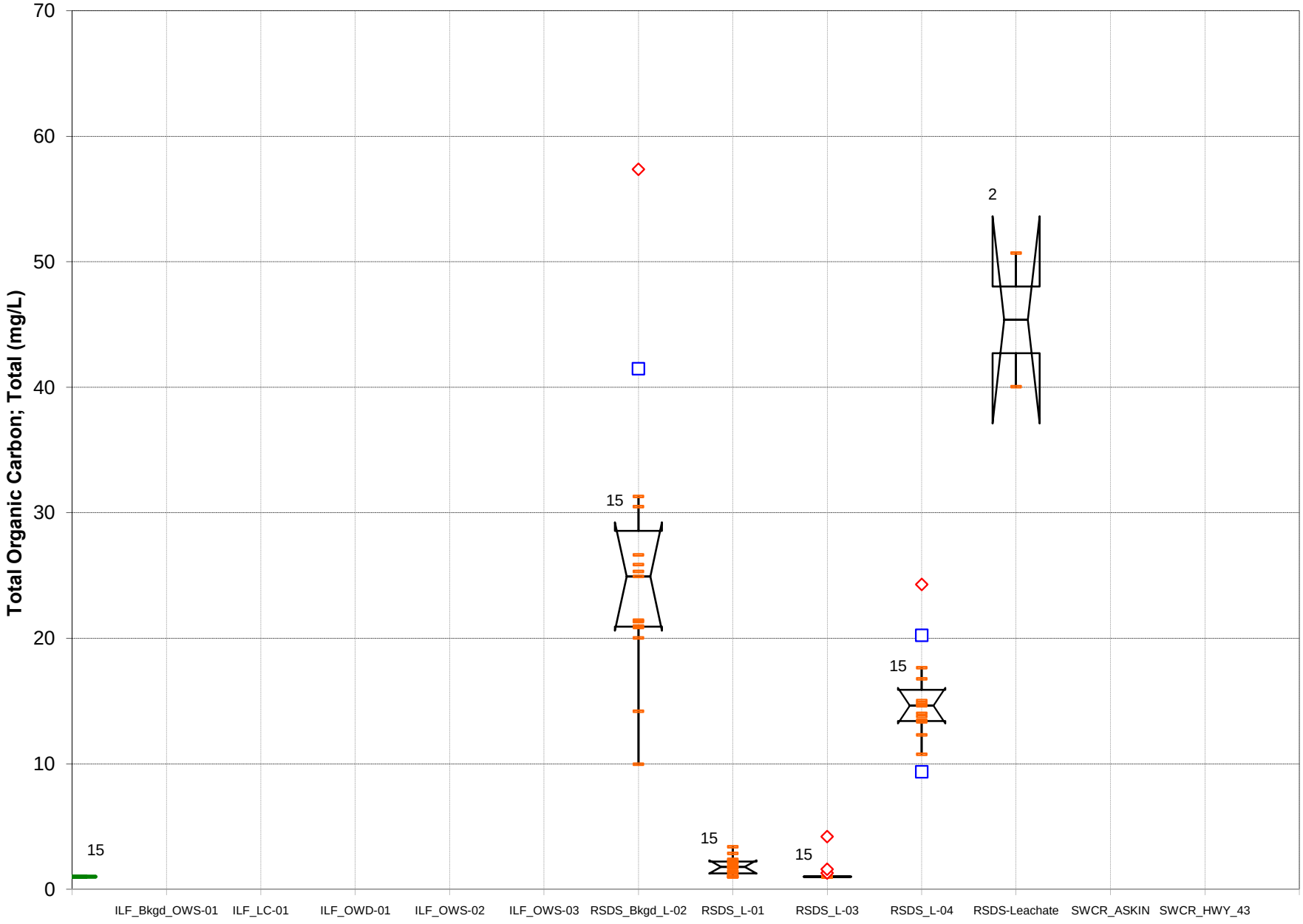
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls9BOXChemical Oxygen1/22/2012

Figure G-9. Chemical Oxygen Demand; Total (mg/L)

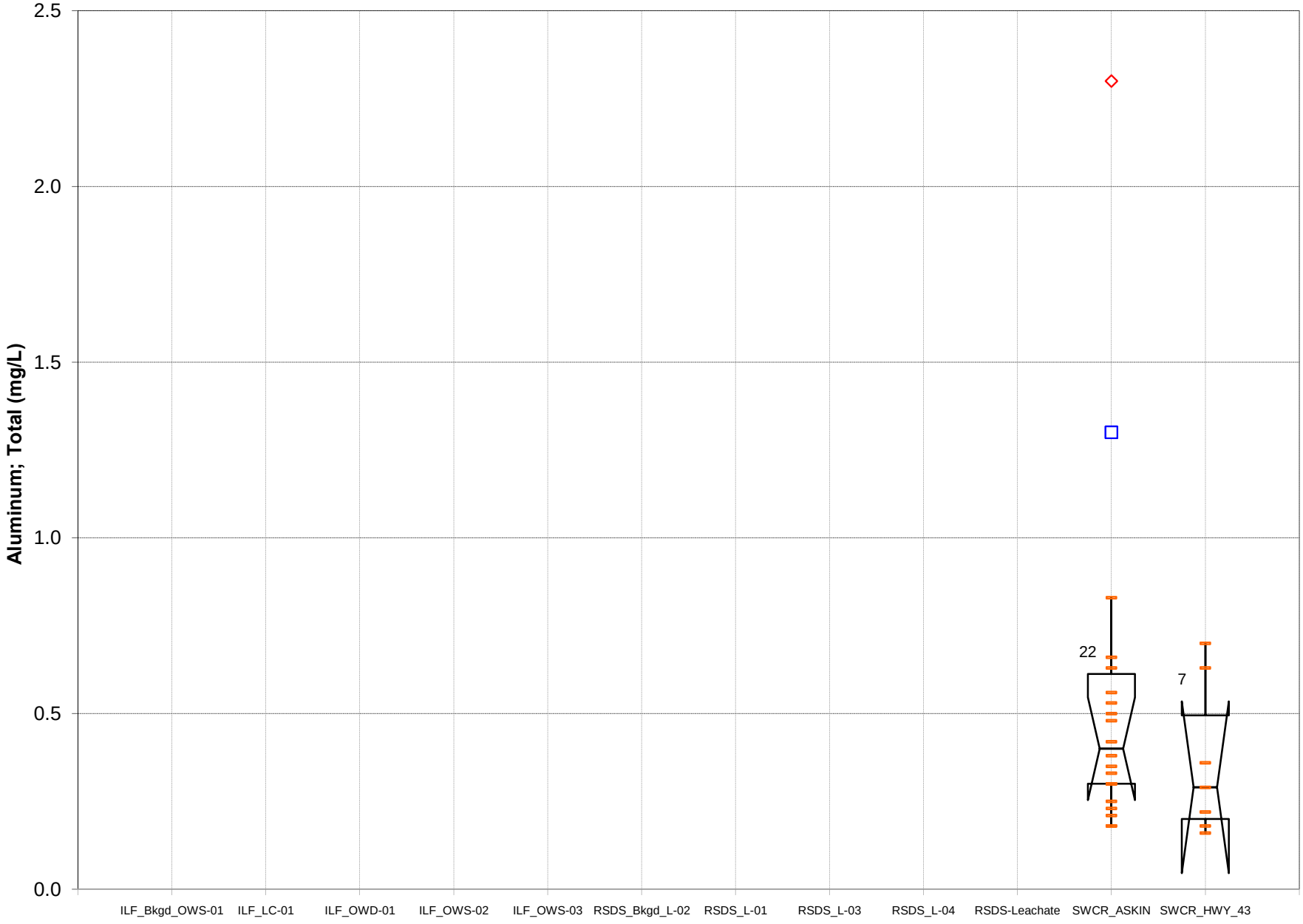
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls10BOXTotal Organic C1/22/2012

Figure G-10. Total Organic Carbon; Total (mg/L)

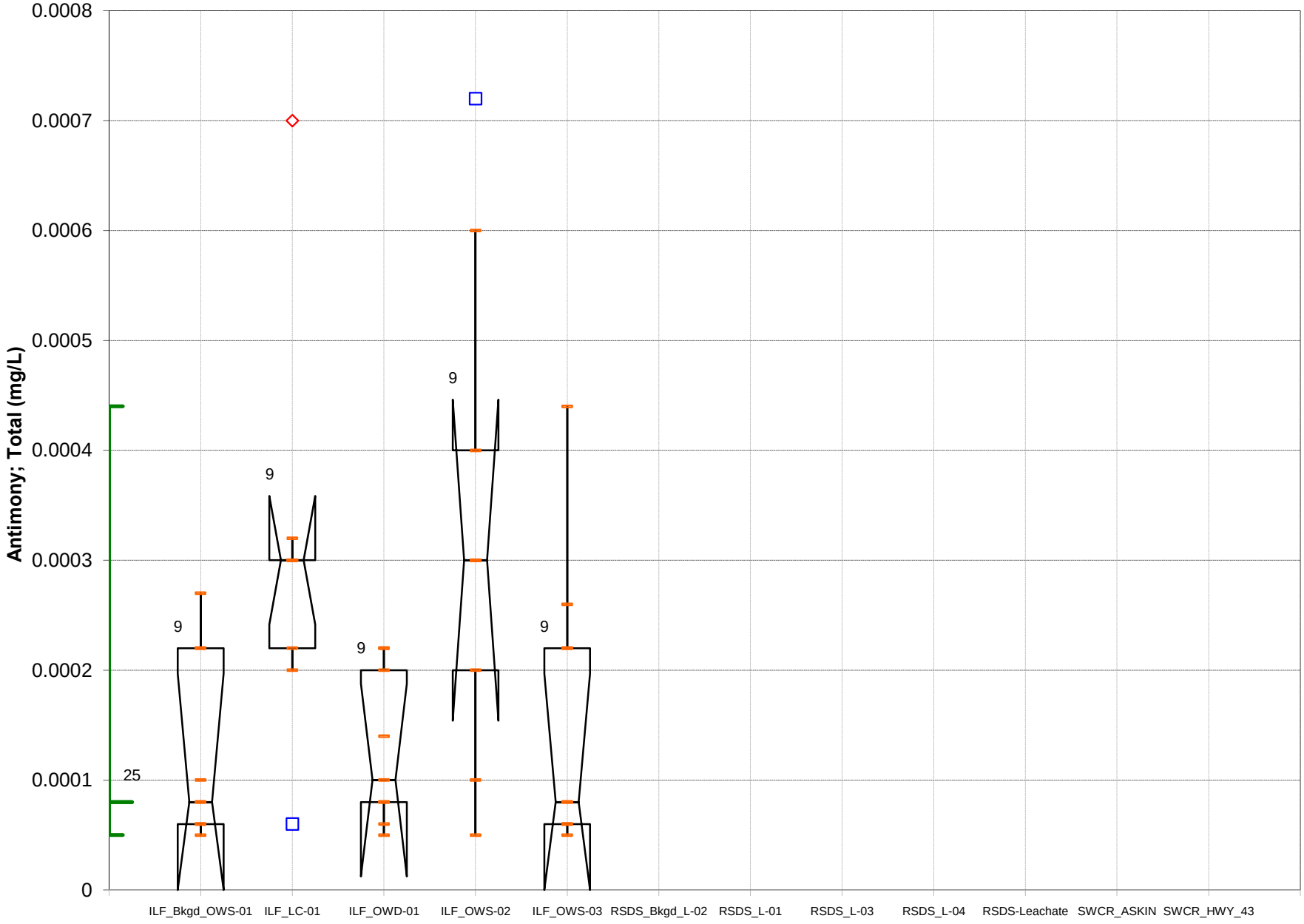
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls11BOXAluminum; Total1/22/2012

Figure G-11. Aluminum; Total (mg/L)

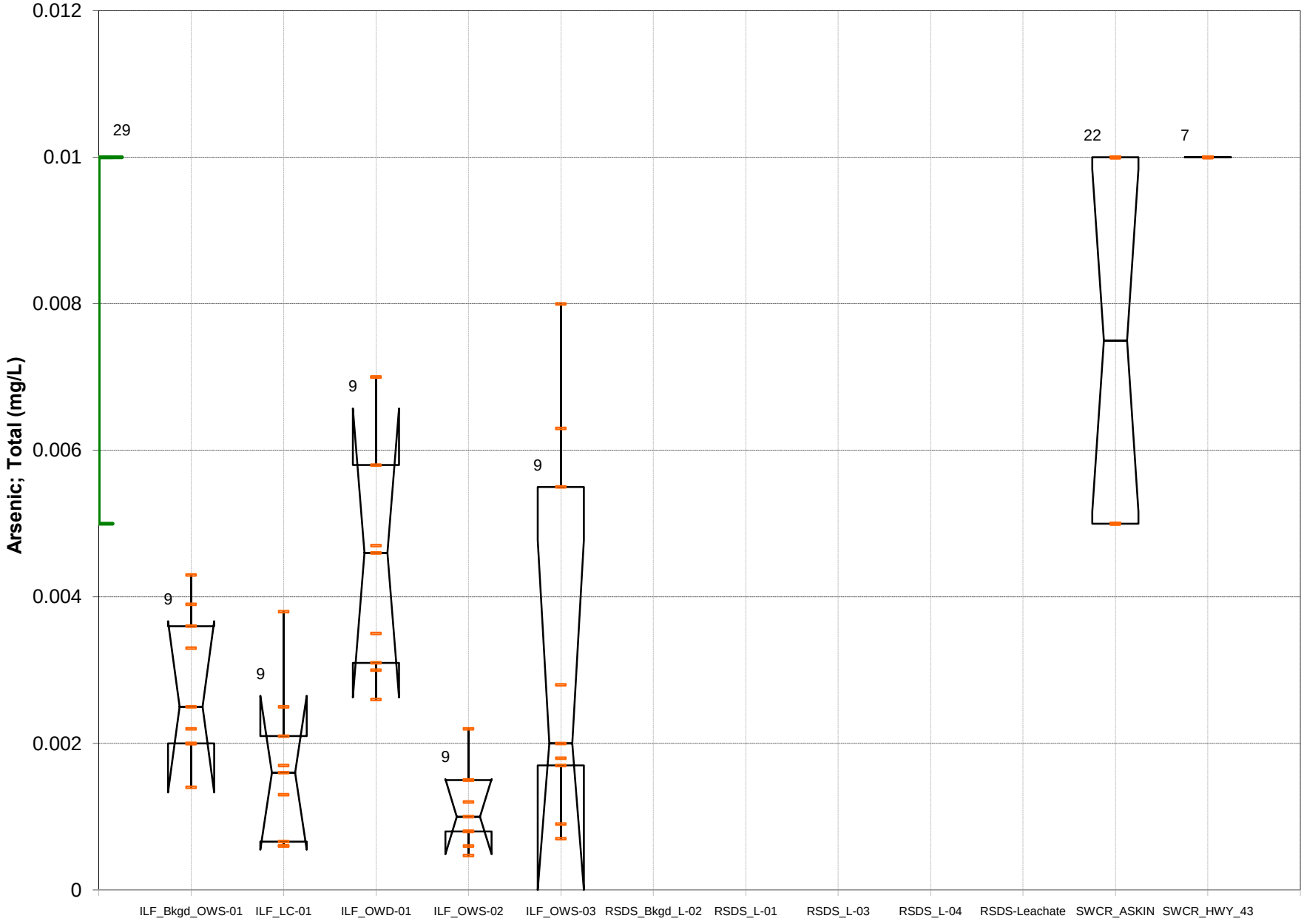
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls12BOXAntimony; Total1/22/2012

Figure G-12. Antimony; Total (mg/L)

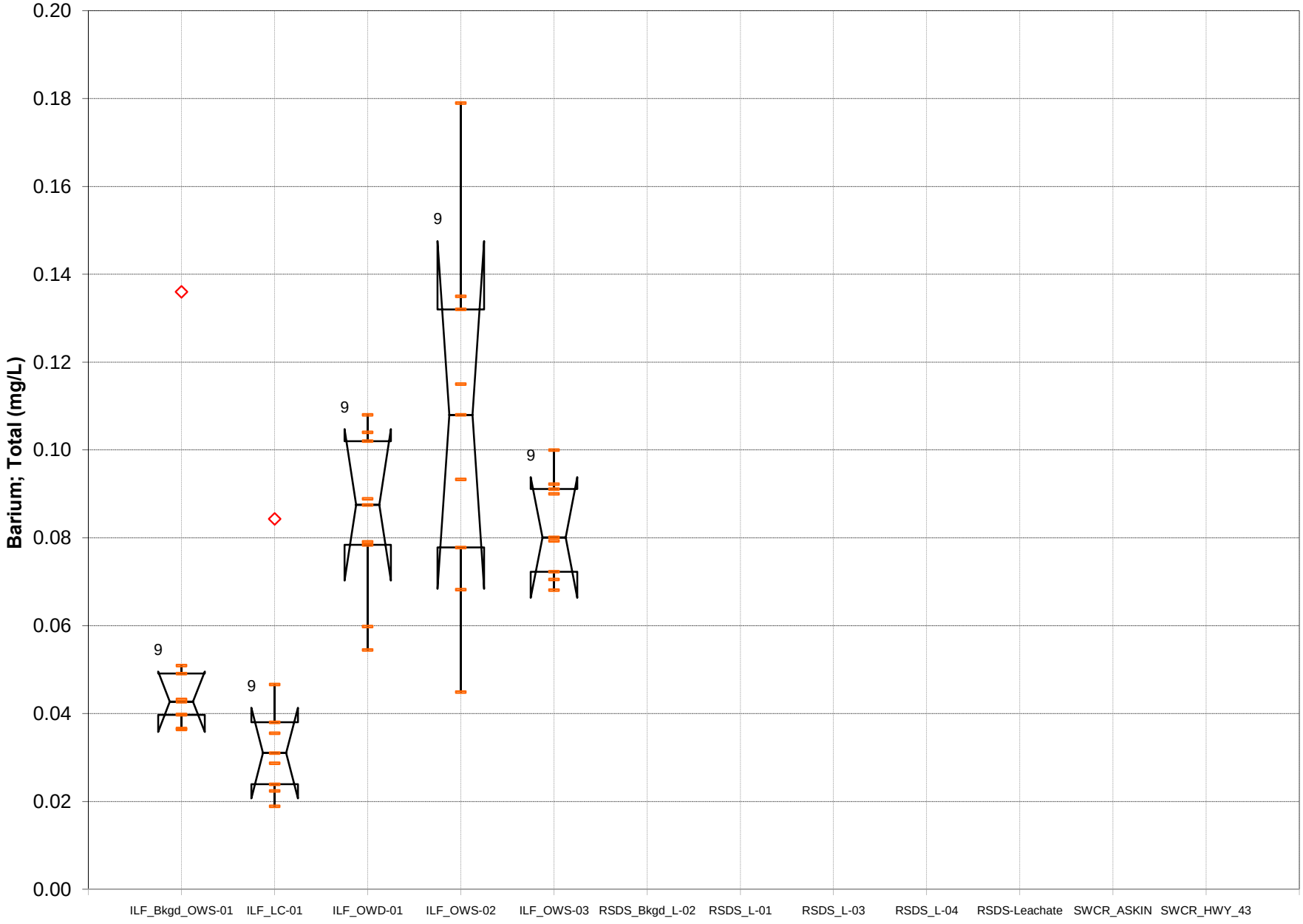
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls13BOXArsenic; Total1/22/2012

Figure G-13. Arsenic; Total (mg/L)

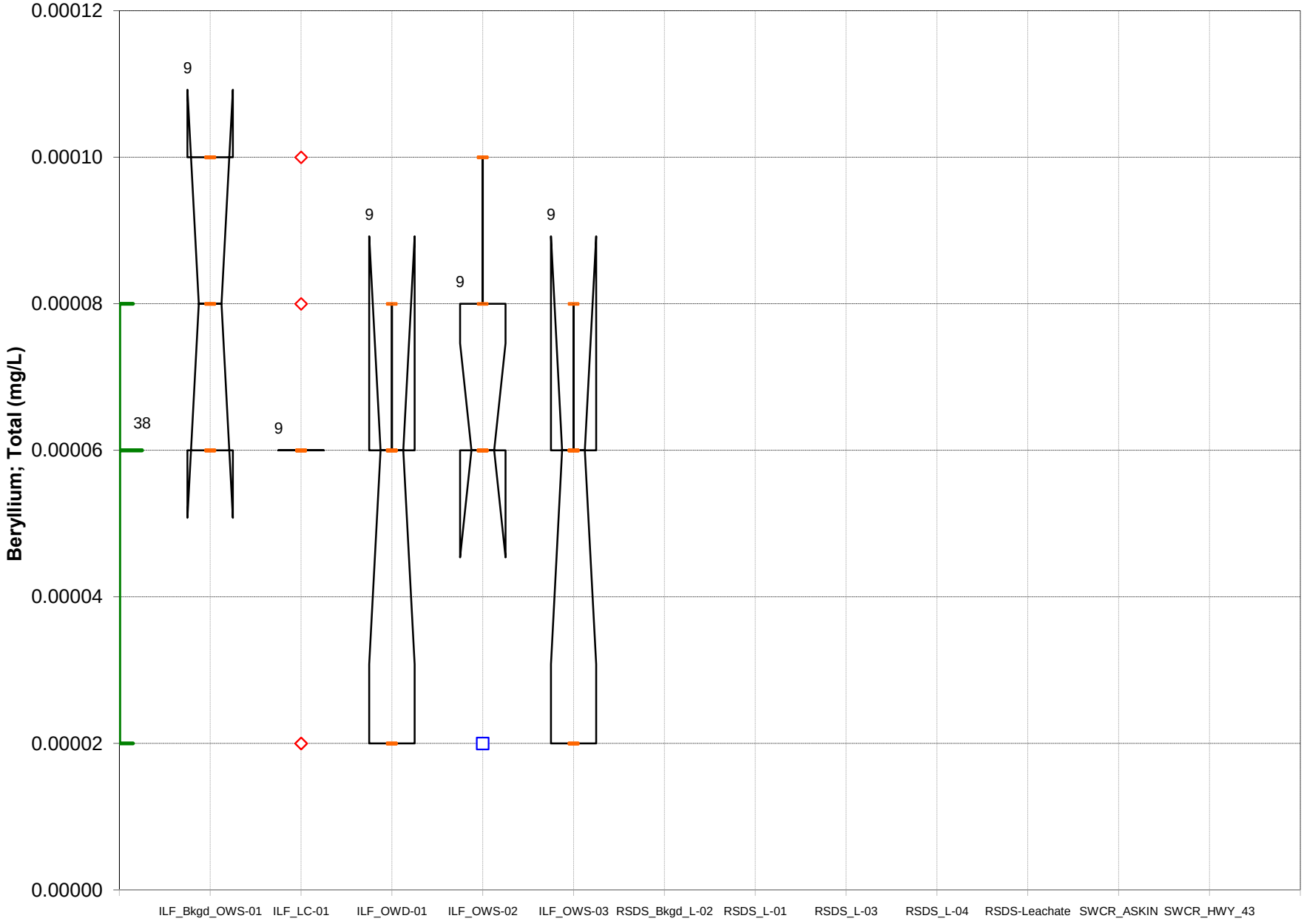
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls14BOXBarium; Total (1/22/2012

Figure G-14. Barium; Total (mg/L)

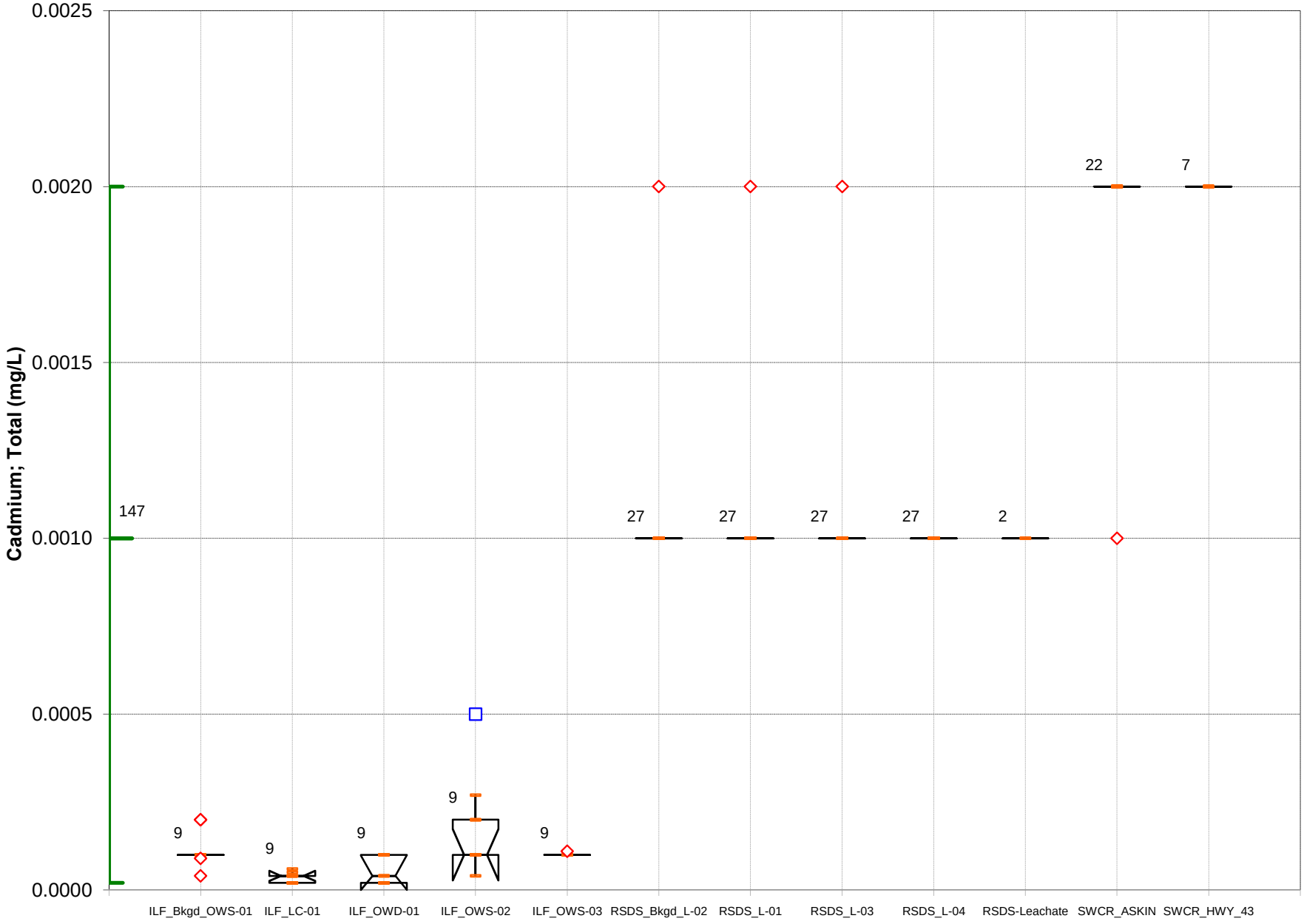
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls15BOXBeryllium; Tota1/22/2012

Figure G-15. Beryllium; Total (mg/L)

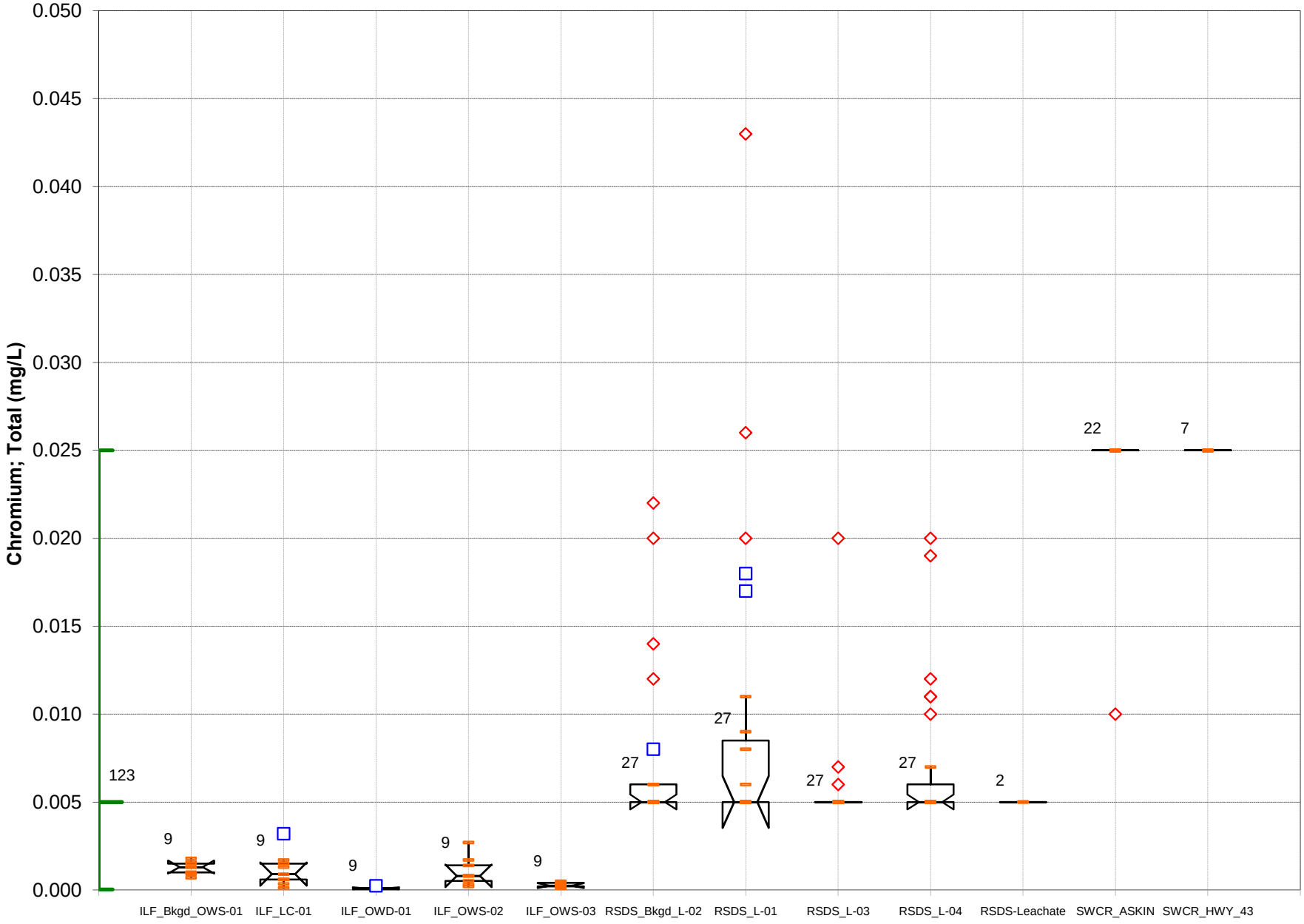
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls16BOXCadmium; Total1/22/2012

Figure G-16. Cadmium; Total (mg/L)

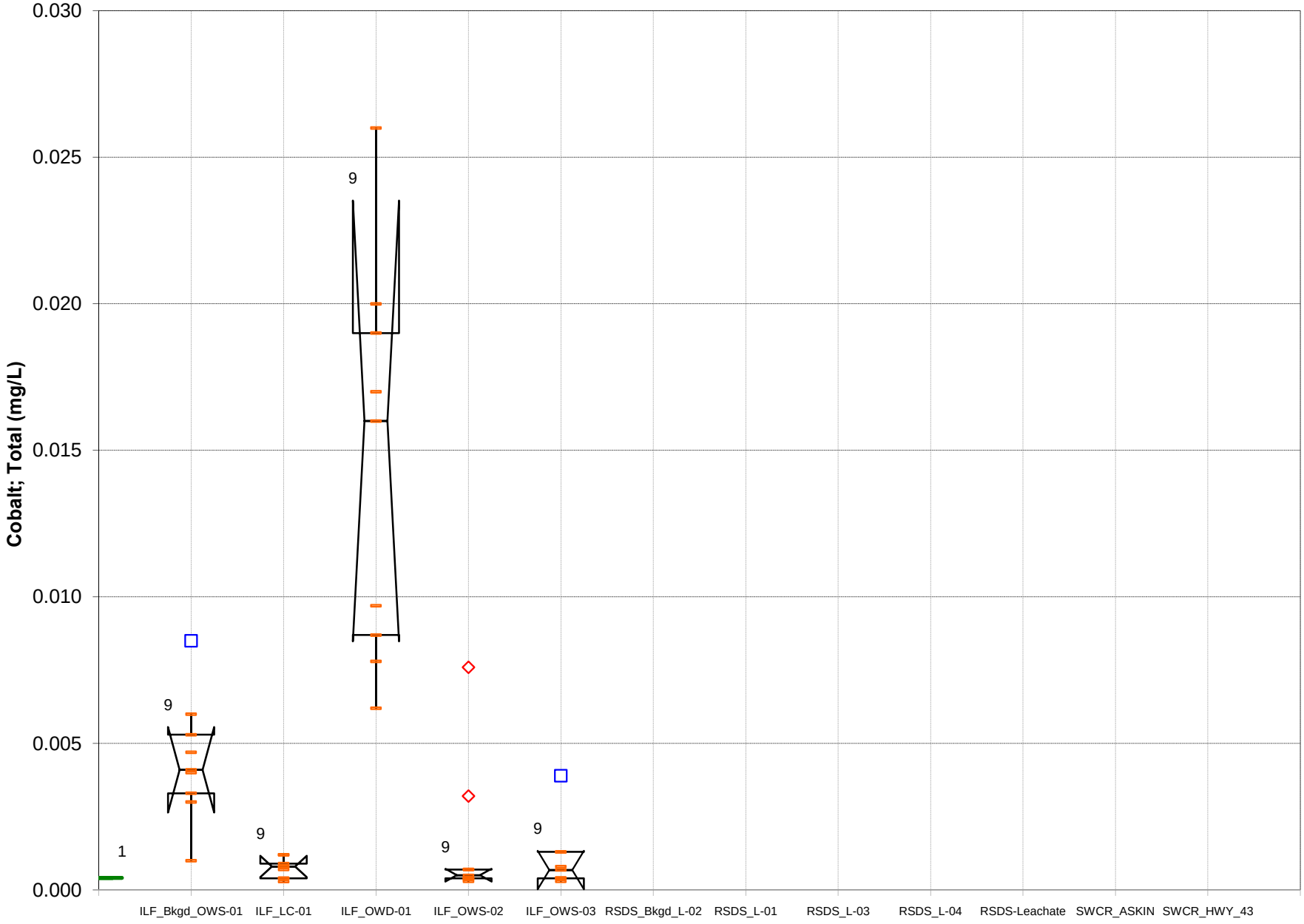
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls17BOXChromium; Total1/22/2012

Figure G-17. Chromium; Total (mg/L)

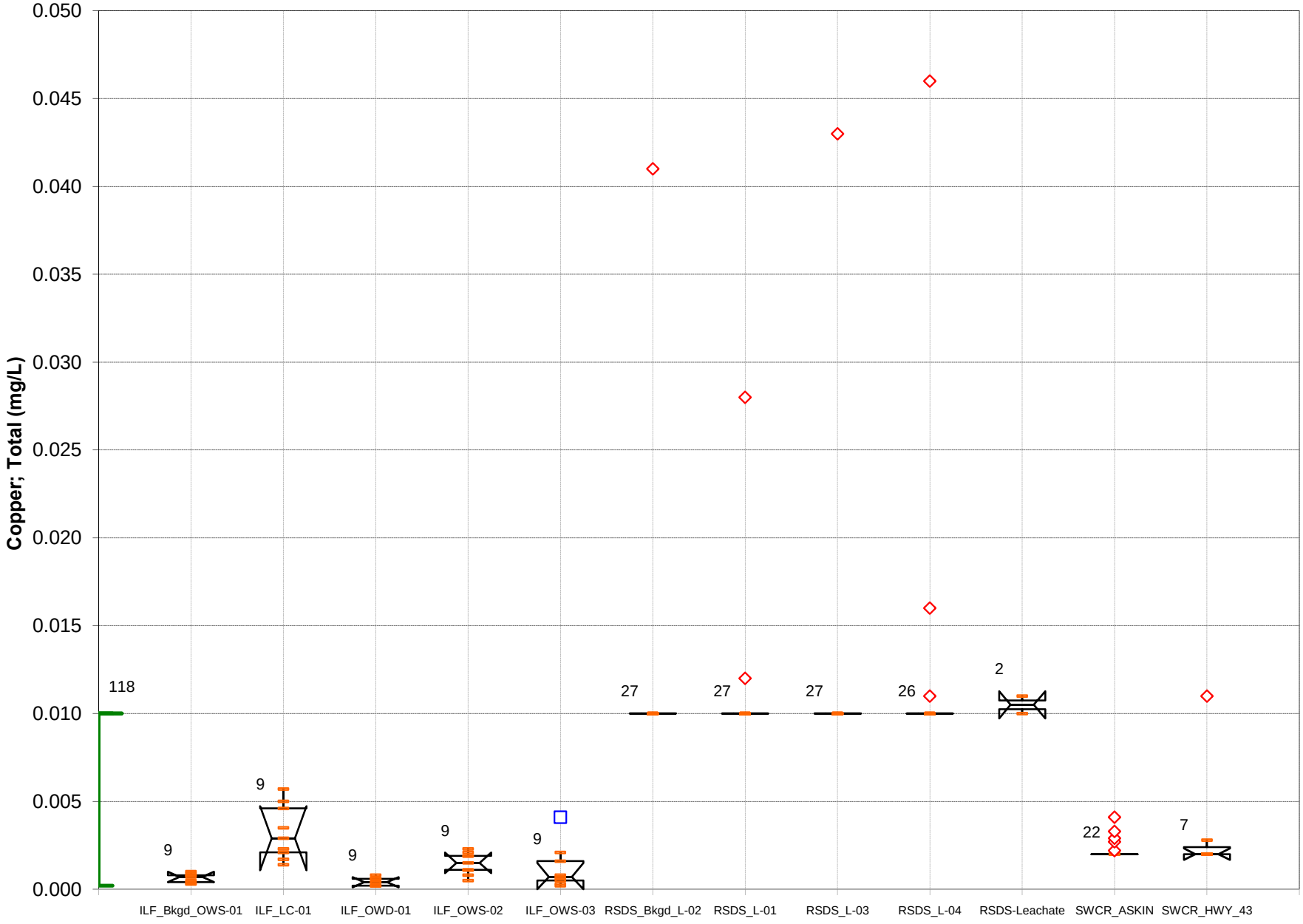
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls18BOXCobalt; Total (1/22/2012

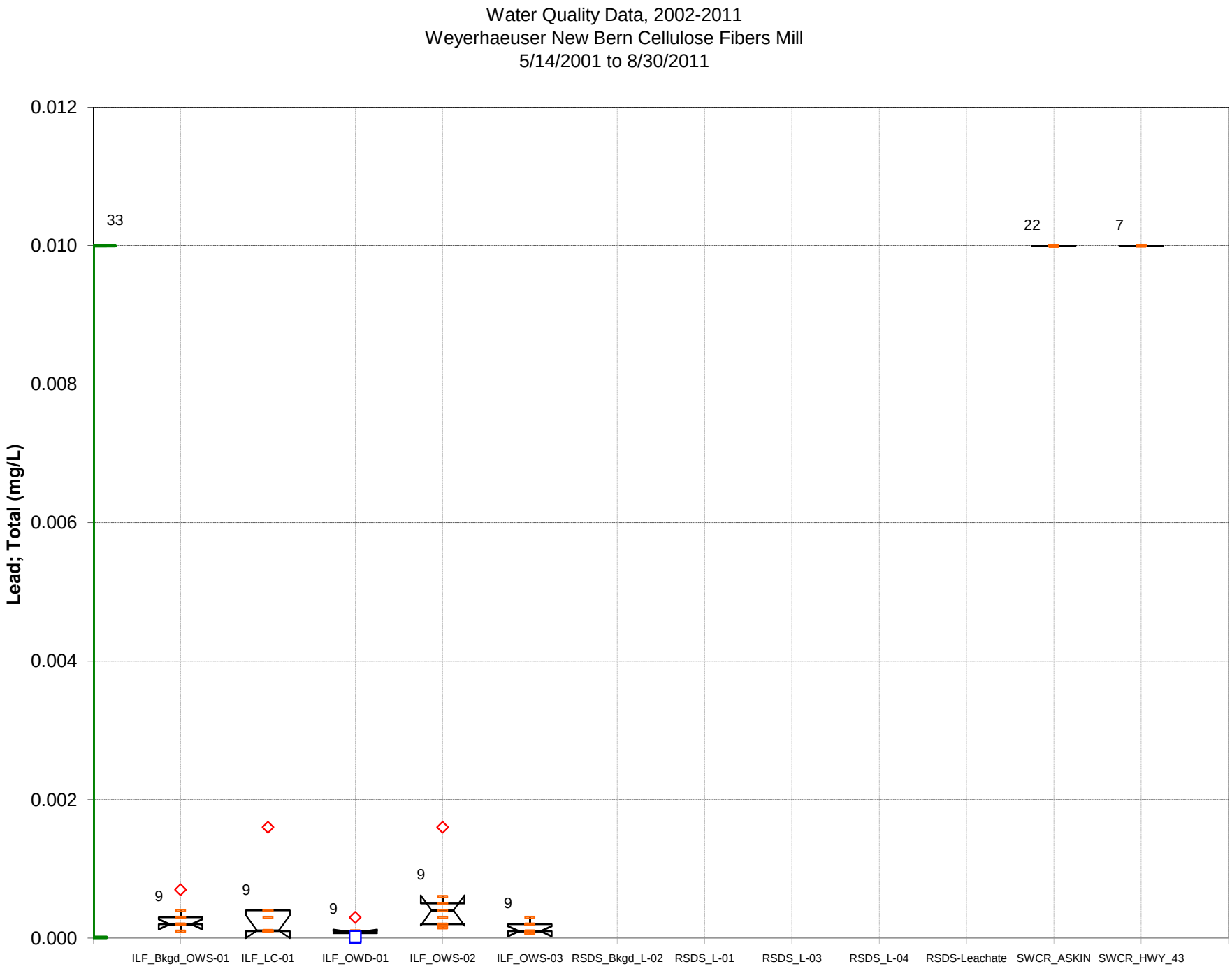
Figure G-18. Cobalt; Total (mg/L)

Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls19BOXCopper; Total (1/22/2012

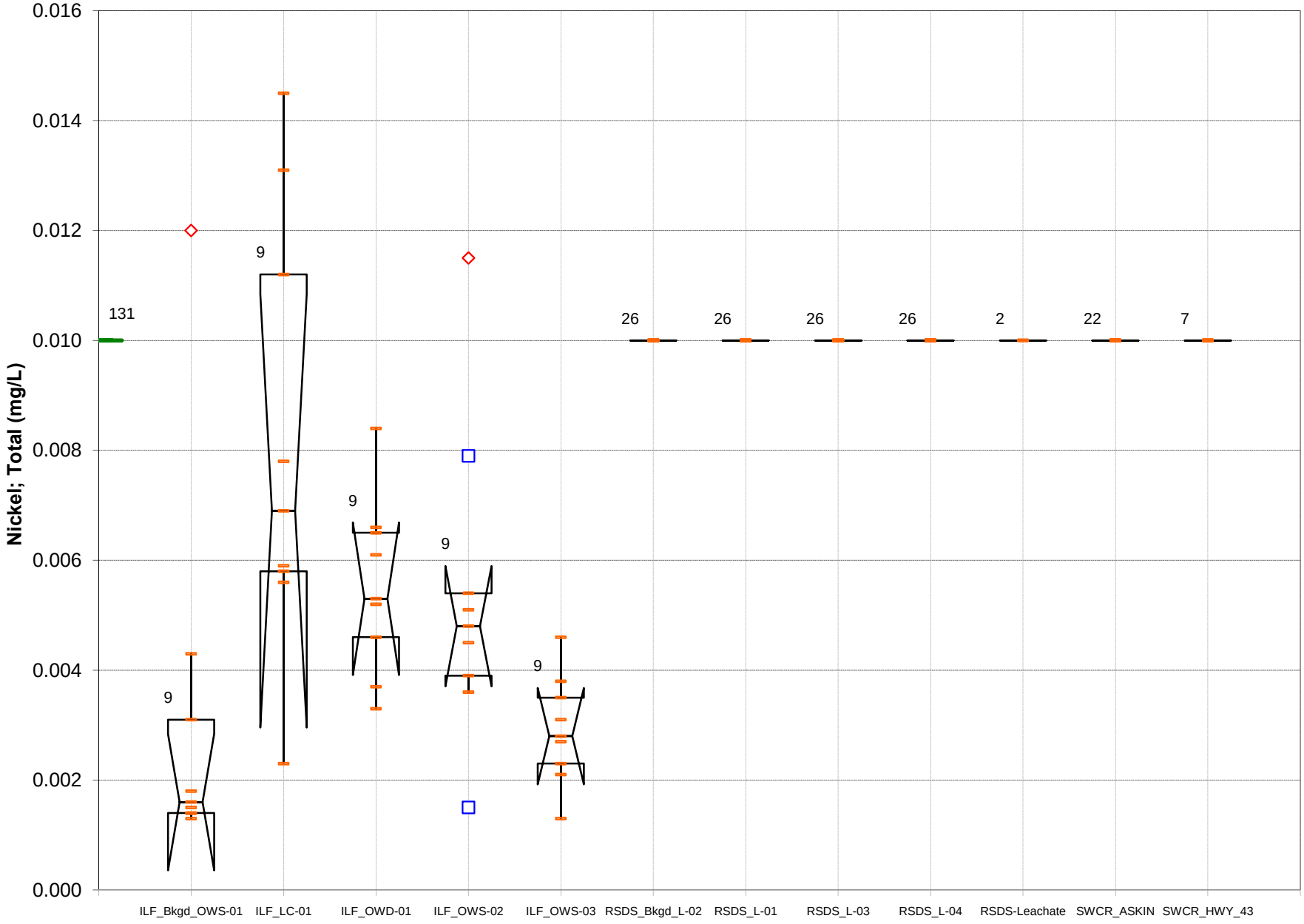
Figure G-19. Copper; Total (mg/L)



All Inorg WQ data 20120122.xls20BOXLead; Total (mg1/22/2012

Figure G-20. Lead; Total (mg/L)

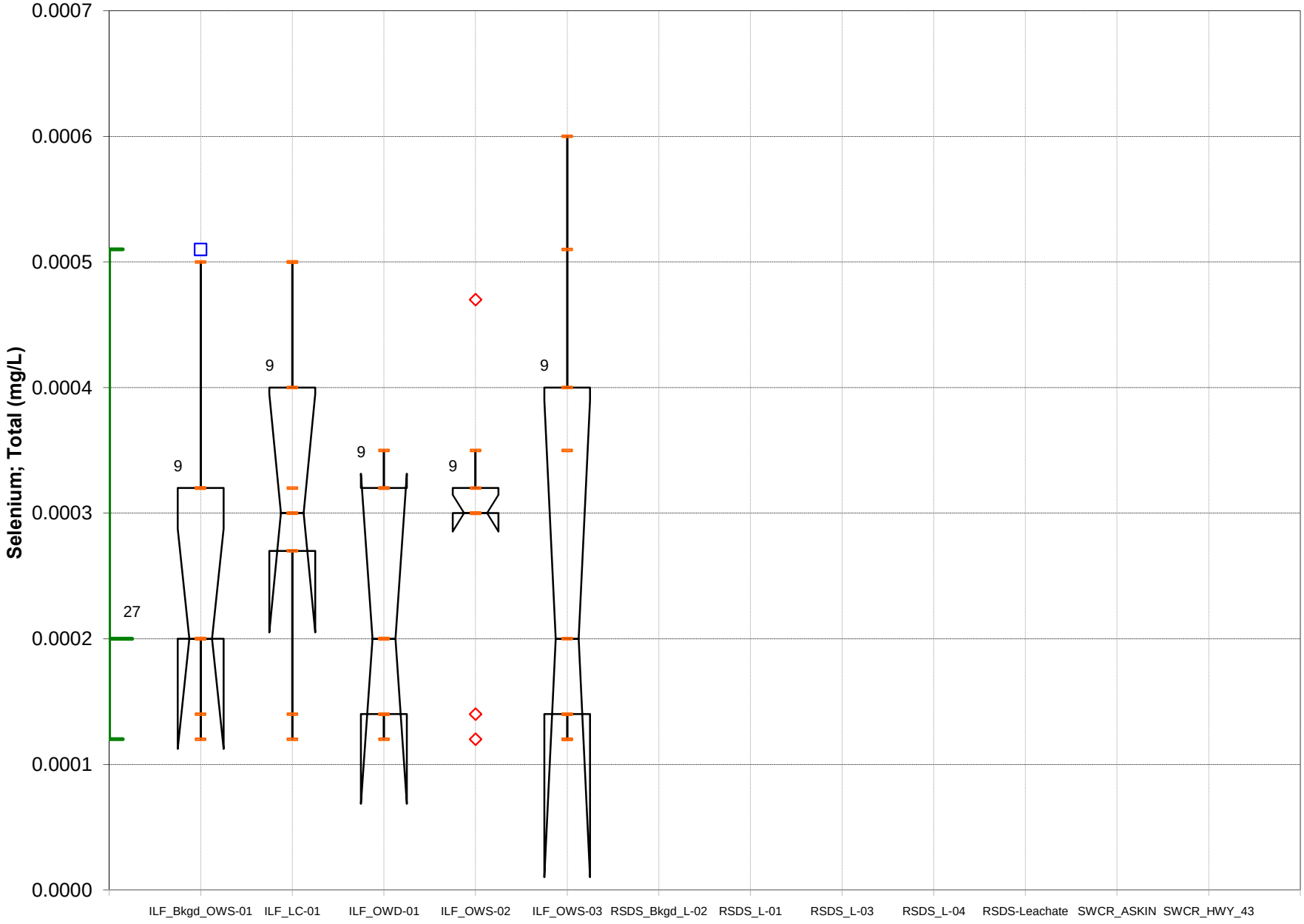
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls21BOXNickel; Total (1/22/2012

Figure G-21. Nickel; Total (mg/L)

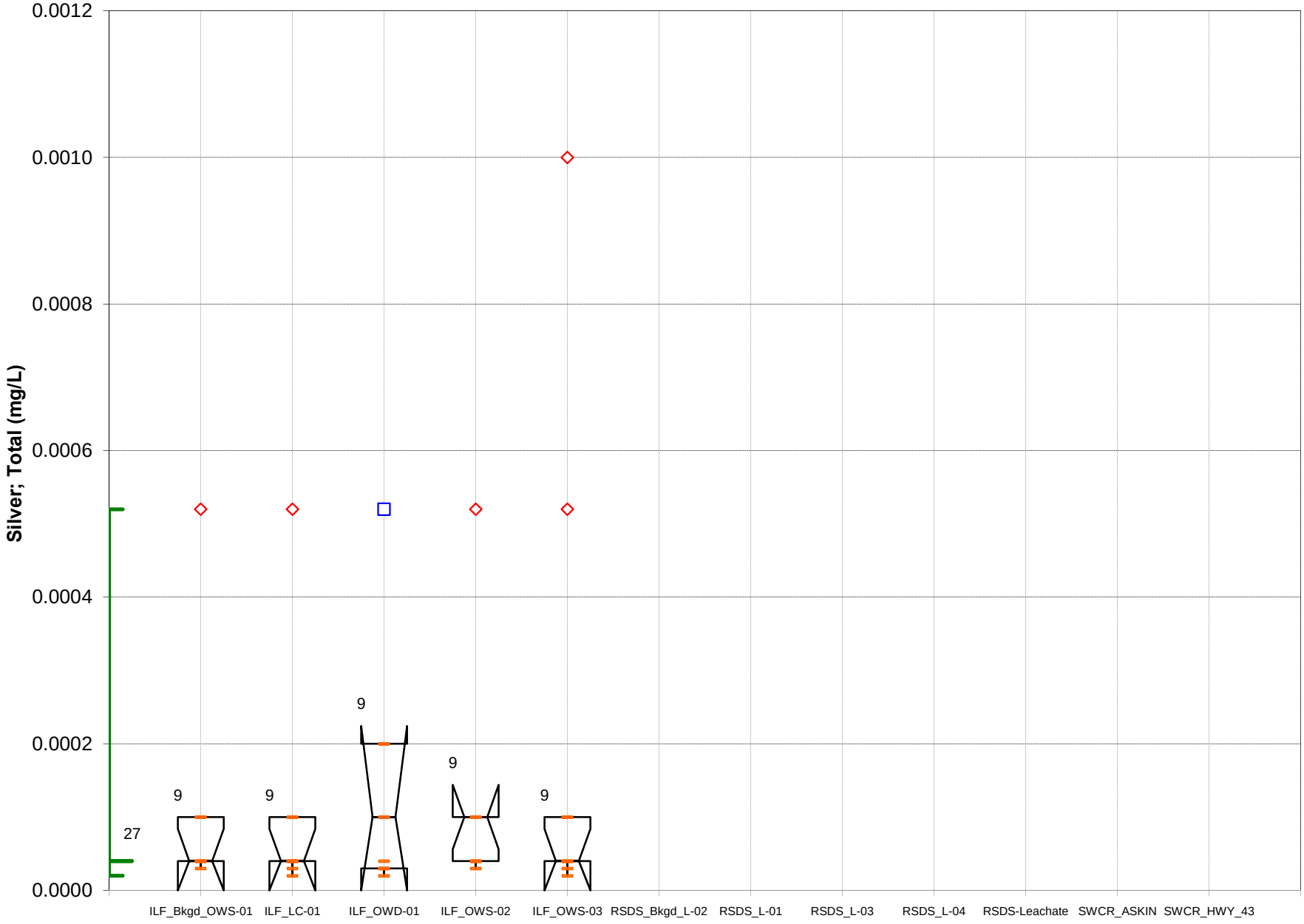
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls22BOXSelenium; Total1/22/2012

Figure G-22. Selenium; Total (mg/L)

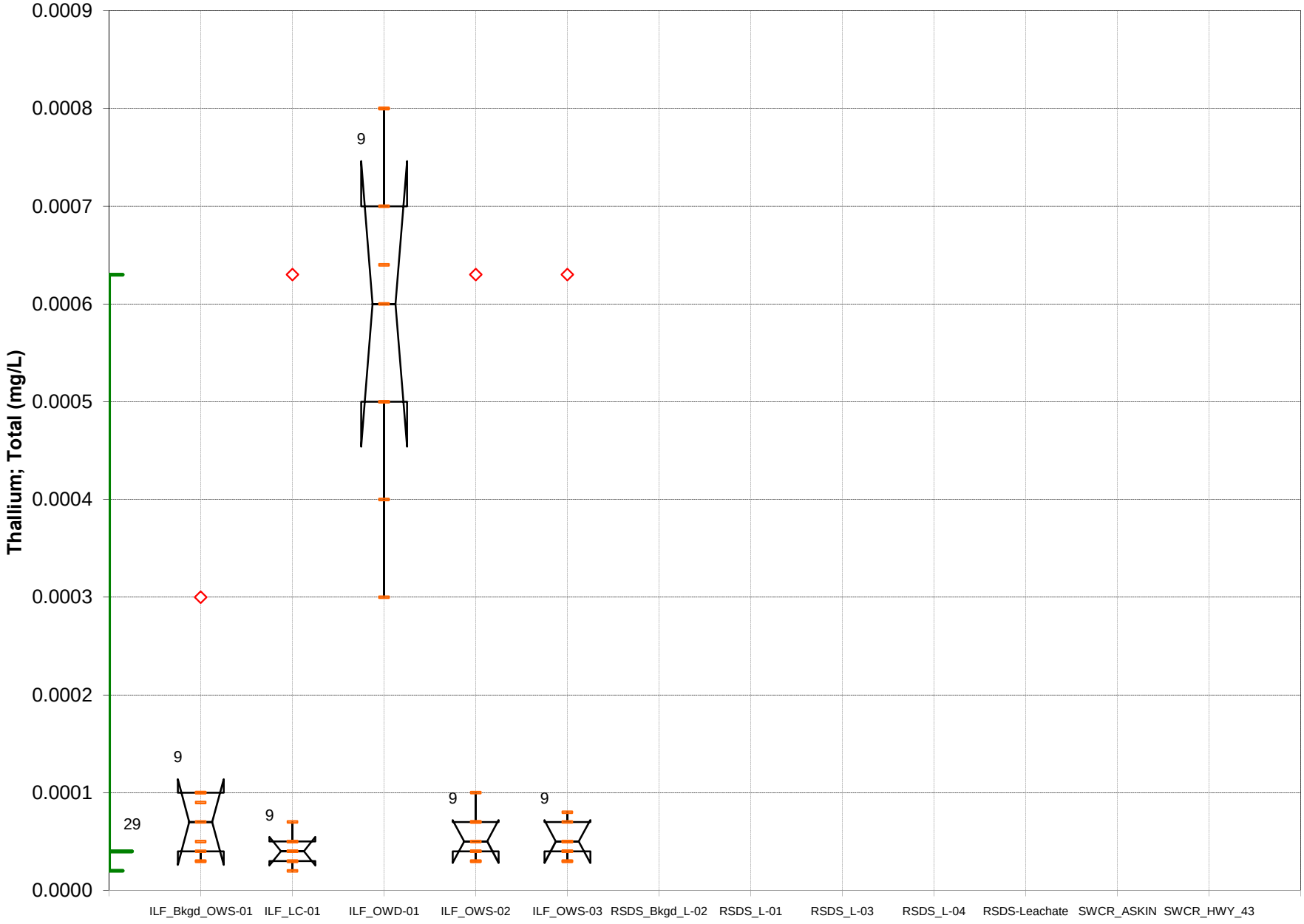
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls23BOXSilver; Total (1/22/2012

Figure G-23. Silver; Total (mg/L)

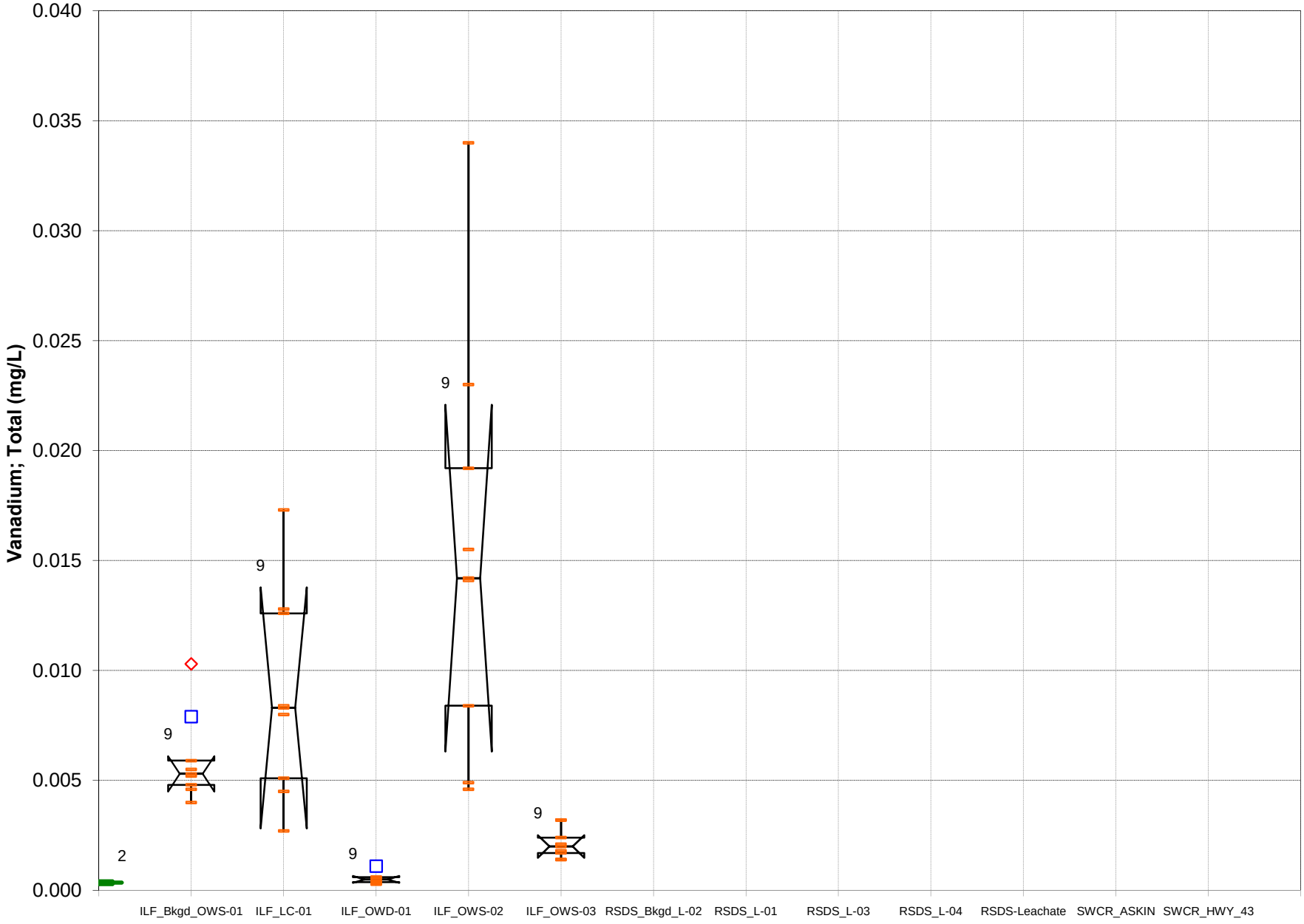
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls24BOXThallium; Total1/22/2012

Figure G-24. Thallium; Total (mg/L)

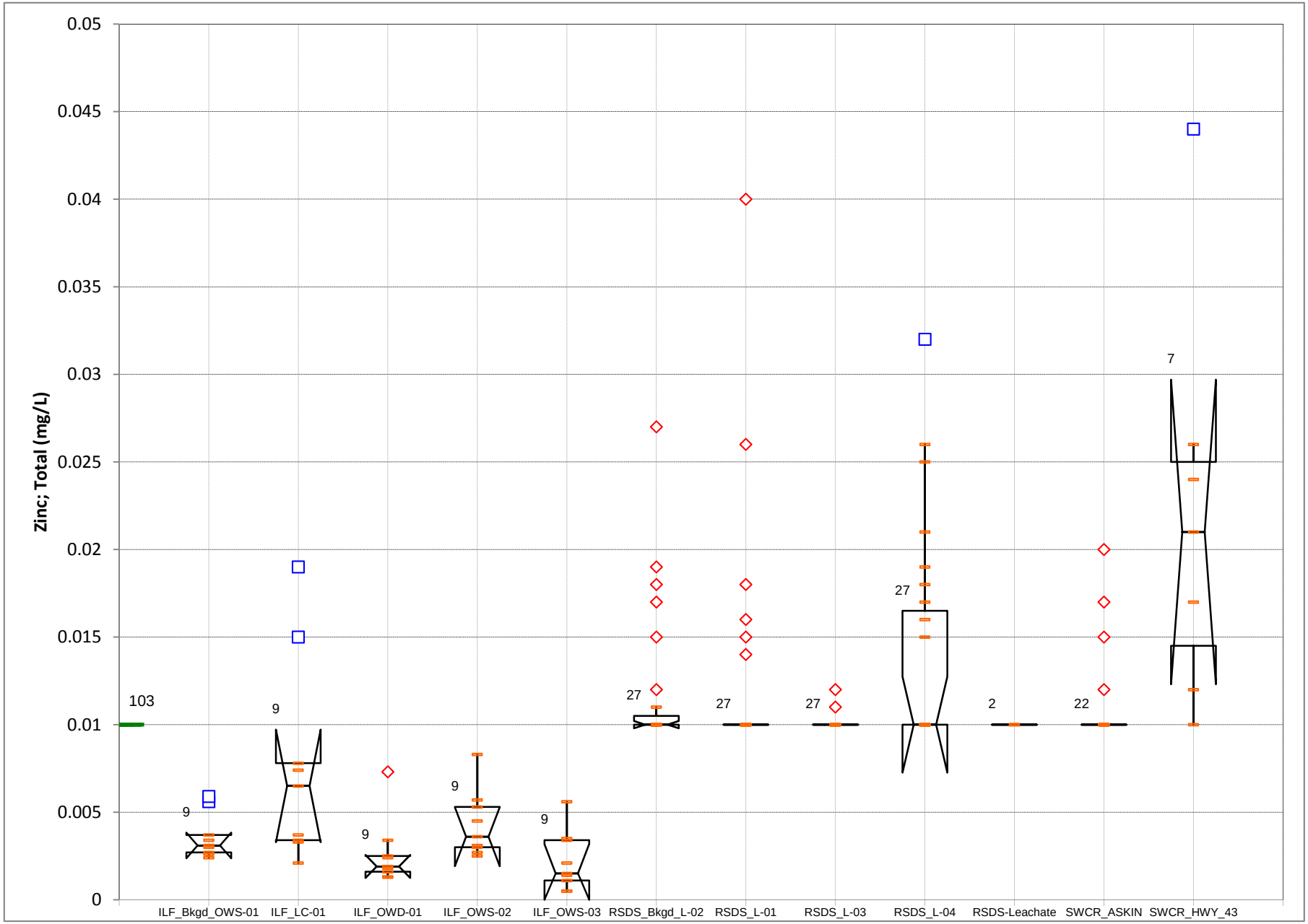
Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls25BOXVanadium; Total1/22/2012

Figure G-25. Vanadium; Total (mg/L)

Water Quality Data, 2002-2011
Weyerhaeuser New Bern Cellulose Fibers Mill
5/14/2001 to 8/30/2011



All Inorg WQ data 20120122.xls26BOXZinc; Total (mg1/23/2012

Figure G-26. Zinc; Total (mg/L)

APPENDIX H

LABORATORY REPORTS
(INCLUDED ON CD)

ironment 1, Incorporated

O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085
PHONE (252) 756-62
FAX (252) 756-06

Drinking Water ID: 3771
Wastewater ID: 10

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. BILL MORRIS
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 03/19/03
DATE REPORTED : 05/02/03

REVIEWED BY: _____

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.5	5.5	5.0	6.7	03/19/03	RJH	EPA150.1
Nitrate Nitrogen, mg/l	2.46	0.05	<0.04	<0.04	03/21/03	NNN-	EPA353.2
Phenol, ug/l	<2	<2	<2	<2	03/24/03	TWA	SM510A&B
Total Dissolved Residue, mg/l	90	54	21	225	03/25/03	MKB	EPA160.1
dmium, ug/l	<1.0	<1.0	<1.0	<1.0	04/16/03	MLH	EPA213.2
er, ug/l	< 10	< 10	< 10	< 10	04/21/03	LFJ	EPA6010B
Total Chromium, ug/l	18	8	<5.0		04/19/03	LFJ	EPA6010B
Nickel, ug/l	< 10	< 10	< 10	<5.0	04/30/03	WNG	EPA6010B
Zinc, ug/l	15	11	< 10	< 10	04/19/03	LFJ	EPA6010B
Sulfate, mg/l	33.2	<5.0	5.4	< 10	04/16/03	LFJ	EPA289.1
Static Water Level, Feet	5.75	3 65	8.74	<5.0	03/21/03	TRB	EPA375.4
				5.04	03/19/03	RJH	

ENVIRONMENT 1, INC.

LAB ID#10

WELL SAMPLING FIELD LOG

Client WEYER NEW BERN ID# 146

Total Hours _____ Site Contact DAVE GARRETT Sample Date 7·30·03

Analyst(s) _____

Location	Static Water Level	Well Depth	Feet of Water	Gallons in Well	Gallons Purged	# of Bails	Temp C	Cond. uMhos	pH Units	pH Time	Collect Time	Odor	Appear.
LF1	5.89	13.81	7.92	1.2	3.6	15	23	155	5.1	0945	0945	N	S
LF2	3.90	13.81	9.91	1.5	4.5	18	20	141	5.7	0955	0955	N	S
LF3	9.00	13.76	4.76	.7	2.1	9	22	50	4.1	0930	0930	N	C
LF4	5.14	15.04	9.90	1.5	4.5	18	22	407	6.3	0925	0925	N	S

COLOR: E = EARTHY M = METHANE P = PETROLEUM N = NONE

APPEARANCE: C = CLEAR T = TURBID S = SILTY

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-620
FAX (252) 756-068

Drinking Water ID: 3771
Wastewater ID: 10

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. BILL MORRIS
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 07/31/03
DATE REPORTED : 08/25/03

REVIEWED BY: _____

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.1	5.7	4.1	6.3	07/31/03	RJH	EPA150.1
Nitrate Nitrogen, mg/l	3.61	0.11	0.05	0.28	08/01/03	NNN	EPA353.2
Phenol, ug/l	<2	<2	<2	<2	08/04/03	TWA	SM510A&B
Total Dissolved Residue, mg/l	90	124	44	186	08/04/03	TRB	EPA160.1
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	08/22/03	WNG	EPA213.2
Copper, ug/l	12	< 10	< 10	< 10	08/07/03	LFJ	EPA200.7
Total Chromium, ug/l	43	14	<5.0	11	08/07/03	LFJ	EPA200.7
Nickel, ug/l	< 10	< 10	< 10	< 10	08/07/03	LFJ	EPA200.7
Zinc, ug/l	40	19			08/08/03	WNG	EPA200.7
			< 10		08/07/03	LFJ	EPA200.7
Sulfate, mg/l	24.7	<5.0	<5.0	19	08/08/03	WNG	EPA200.7
Static Water Level, Feet	5.89	3.90	9.00	11.3	08/04/03	TRB	EPA375.4
				5.14	07/31/03	RJH	

ENVIRONMENT 1, INC.

LAB ID#10

WELL SAMPLING FIELD LOG

Client WEYER. NEW BERN ID# 146 Sample Date 11.19.03

Total Hours 3.5 Site Contact DAVE 2402 Analyst(s)

Location	Static Water Level	Well Depth	Feet of Water	Gallons in Well	Gallons Purged	# of Bails	Temp C	Cond. uMhos	pH Units	pH Time	Collect Time	Odor	Appear.
LF 1	5.83	13.81	7.98	1.3	3.9	16	21	153	4.9	0915	0915	N	S
LF2	4.00	13.81	9.81	1.5	4.5	18	19	132	5.3	0900	0900	N	C
LF3	8.93	13.76	4.83	.7	2.1	9	21	44	4.3	0920	0920	N	C
LF4	5.20	15.04	9.84	1.5	4.5	18	20	252	6.2	0935	0935	N	S

146 LF4 46

WEYERHAEUSER, NEW BERN (N.LANDFILL) __/__/__

Landfill Well #4

OR: E = EARTHY M = FPH WI

CLEAR T = TURBID S = SILTY

vironment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-62
FAX (252) 756-06

Drinking Water ID: 377
Wastewater ID: 10

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. BILL MORRIS
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 11/19/03
DATE REPORTED : 12/29/03

REVIEWED BY: _____

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	4.9	5.3	4.3	6.2	11/19/03	RJH	EPA150.1
Nitrate Nitrogen, mg/l	0.82	<0.04	<0.04	<0.04	11/24/03	TWA	EPA353.2
Phenol, ug/l	<2	3	<2	<2	11/25/03	CAI	SM510A&B
Total Dissolved Residue, mg/l	72	77	529	245	11/21/03	JKD	EPA160.1
dmium, ug/l	<1.0				12/17/03	WNG	EPA213.2
		<1.0	<1.0	<1.0	12/29/03	WNG	EPA213.2
Copper, ug/l	< 10	< 10			12/02/03	WNG	EPA200.7
			<10	<10	12/11/03	AL	EPA220.1
Total Chromium, ug/l	26	6	<5.0	19	12/02/03	WNG	EPA200.7
Nickel, ug/l	< 10	< 10	< 10	< 10	12/02/03	WNG	EPA200.7
Zinc, ug/l	26	12			12/03/03	WNG	EPA200.7
			< 10	32	12/16/03	AEL	EPA289.1
Sulfate, mg/l	35.4	8.7	5.1	9.3	11/21/03	TRB	EPA375.4
Static Water Level, Feet	5.83	4.00	8.93	5.20	11/19/03	RJH	

ANALYTICAL & CONSULTING CHEMISTS

Environmental Chemists, Inc.

6602 Windmill Way • Wilmington, North Carolina 28405
(910) 392-0223 (Lab) • (910) 392-4424 (Fax)
EchemW@aol.com

NCDENR: DWQ CERTIFICATE #94, DLS CERTIFICATE #37729

Customer:

ENVIRONMENT - 1
Post Office Box 7085
Greenville, NC 27858
Attn: DeeDee Woolard

Date of Report: December 9, 2003

Purchase Order #:

Report Number: 3-6818

REPORT OF ANALYSIS

Date Sampled: 11/19/03

Sampled By: Client

Report To: DeeDee Woolard

Project :

EFFLUENT:

METHOD 604 Analyte µg/L	*Quantitation Limit µg/L*	Landfill Well #1 #15866	Landfill Well #2 #15867	Landfill Well #3 #15868	Landfill Well #4 #15869
4-Chloro-3-methylphenol	5.0	BQL	BQL	BQL	BQL
2-Chlorophenol	5.0	BQL	BQL	BQL	BQL
2,4-Dichlorophenol	5.0	BQL	BQL	BQL	BQL
2,4-Dimethylphenol	5.0	BQL	BQL	BQL	BQL
2,4-Dinitrophenol	5.0	BQL	BQL	BQL	BQL
2-Methyl-4,6-dinitrophenol	5.0	BQL	BQL	BQL	BQL
2-Nitrophenol	5.0	BQL	BQL	BQL	BQL
4-Nitrophenol	5.0	BQL	BQL	BQL	BQL
Pentachlorophenol	5.0	BQL	BQL	BQL	BQL
Phenol	5.0	BQL	BQL	BQL	BQL
2,4,6-Trichlorophenol	5.0	BQL	BQL	BQL	BQL
Date Sampled		11-19-03	11-19-03	11-19-03	11-19-03
Date Analyzed		12-5-03	12-5-03	12-5-03	12-5-03

Comments:

BQL = Below Quantitation Limit.

Reviewed by R.K. Highland Lewis Hicks

RECEIVED
APR 28 2004
BY:

ENVIRONMENT 1, INC.

LAB ID#10

WELL SAMPLING FIELD LOG

Client NEW BERN WEYER. ID# 146 Sample Date 3.18.04

Total Hours 3.5 Site Contact 2402 Analyst(s)

Location	Static Water Level	Well Depth	Feet of Water	Gallons in Well	Gallons Purged	# of Bails	Temp C	Cond. uMhos	pH Units	pH Time	Collect Time	Odor	Appear.
LF 1	5.85	13.81	7.96	1.2	3.6	15	15	114	5.5	0915	0915	N	S
LF 2	3.82	13.81	9.99	1.5	~~7.5~~ 4.5	18	13	193	4.7	0905	0905	N	C
LF 3	5.90	13.76	4.86	.7	2.1	9	15	42	4.6	0920	0920	N	C
LF 4	5.07	15.04	10.97	1.6	4.8	20	13	394	6.5	0930	0930	N	S

COLOR: E = EARTHY M = METHANE P = PETROLEUM N = NONE APPEARANCE: C = CLEAR T = TURBID S = SILT

Environment 1, Incorporated
P.O. BOX 7085 101 DAUMONT DRIVE
GREENVILLE, NC 27835-7085
PHONE (252) 758-6200
FAX (252) 756-0198

RECEIVED
APR 20 2004
BY: D Gardner

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 03/18/04
DATE REPORTED : 04/12/04

REVIEWED BY: John T. Lulli

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.5	4.7	4.6	6.5	03/18/04	RJH	EPA150.1
Nitrate Nitrogen, mg/l	1.34	<0.04	0.09	<0.04	03/19/04	TWA	EPA353.2
Phenol, ug/l	<2	<2	<2	<2	03/19/04	CAI	SM510A&B
Total Dissolved Residue, mg/l	55	70	14	189	03/18/04	JKD	EPA160.1
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	03/29/04	CMF	EPA213.2
[illegible]er, ug/l	< 10	< 10	< 10	10	03/24/04	AEL	EPA220.1
[illegible] Chromium, ug/l	17	6	7	12	03/26/04	LFJ	EPA200.7
Nickel, ug/l	< 10	< 10	< 10	< 10	03/26/04	LFJ	EPA200.7
Zinc, ug/l	14	< 10	< 10	18	03/25/04	AEL	EPA289.1
Sulfate, mg/l	22.0	<5.0	<5.0	29.9	03/19/04	TRB	EPA375.4
Static Water Level, Feet	5.85	3.82	8.90	5.07	03/18/04	RJH	

ENVIRONMENT 1, INC.

LAB ID#10

WELL SAMPLING FIELD LOG

Client WEYER. NEW BERN ID# 146 Sample Date 7-30-04

Total Hours 3.5 Site Contact 2402 Analyst(s)

Location	Static Water Level	Well Depth	Feet of Water	Gallons in Well	Gallons Purged	# of Bails	Temp C	Cond. uMhos 627	pH Units	pH Time	Collect Time	Odor	Appear.
EF1	6.12	13.81	7.69	1.2	3.6	15	23	121	5.6	0930	0930	N	C
EF2	4.24	13.81	9.57	1.5	4.5	18	22	120	5.8	0920	0920	N	C
EF3	9.25	13.76	4.51	.7	2.1	9	22	31	5.1	0940	0940	N	C
EF4	5.54	15.04	9.50	1.5	4.5	18	22	390	6.5	0955	0955	N	C

Fa

ODOR: E=EARTHY M=METHANE P=PETROLEUM N=NONE APPEARANCE: C=CLEAR T=TURBID S=SILTY

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

RECEIVED
AUG 19 2004
By

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 07/30/04
DATE REPORTED : 08/16/04

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.6	5.8	5.1	6.5	07/30/04	RJH	EPA150.1
Nitrate Nitrogen, mg/l	1.37	0.05	0.17	<0.04	08/04/04	TWA	EPA353.2
Phenol, ug/l	<2	<2	<2	<2	08/06/04	CAI	SM510A&B
Total Dissolved Residue, mg/l	76	108	5.7	142	08/03/04	JKD	EPA160.1
Cadmium, ug/l	<1.0	2	<1.0	<1.0	08/05/04	CMF	EPA213.2
Copper, ug/l	< 10	< 10	< 10	< 10	08/05/04	ADD	EPA220.1
Total Chromium, ug/l	9	<5.0	<5.0	5	08/03/04	LFJ	EPA200.7
Nickel, ug/l	< 10	< 10	< 10	< 10	08/03/04	LFJ	EPA200.7
Zinc, ug/l	< 10	< 10	< 10	< 10	08/06/04	ADD	EPA289.1
Sulfate, mg/l	34.3	8.1	6.5	16.0	08/16/04	TRB	EPA375.4
Static Water Level, Feet	6.12	4.24	9.25	5.54	07/30/04	RJH	

ENVIRONMENT 1, INC.

LAB ID#10

WELL SAMPLING FIELD LOG

RECEIVED
DEC 1 4 2004
BY:

Client WEYER, NEW BERN ID# 146 Sample Date 11-12-04

Total Hours 3.5 Site Contact _____ Analyst(s) _____

Location	Static Water Level	Well Depth	Feet of Water	Gallons in Well	Gallons Purged	# of Bails	Temp C	Cond. uMhos	pH Units	pH Time	Collect Time	Odor	Appear.
F1	6.12	13.81	7.69	1.2	3.6	15	20	126	5.5	0915	0915	N	C
F2	4.38	13.81	9.43	1.5	4.5	18	19	127	5.8	0900	0900	N	C
F3	9.29	13.76	4.47	.7	2.1	9	21	28	4.9	0930	0930	N	C
F4	5.69	15.04	9.35	1.5	4.5	18	20	389	6.5	0945	0945	N	C

Ann
ENVIRO 1 faxed
12/14/04

ODOR: E=EARTHY M=METHANE P=PETROLEUM N=NONE APPEARANCE: C=CLEAR T=TURBID S=SILTY

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

RECEIVED
DEC 1 4 2004
BY:

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 11/12/04
DATE REPORTED : 12/09/04

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.5	5.8	4.9	6.5	11/12/04	RJH	EPA150.1
Nitrate Nitrogen, mg/l	0.90	<0.04	0.22	<0.04	11/12/04	TWA	EPA353.2
Phenol, ug/l	<2	<2			11/16/04	CAI	SM510A&B
			<2		11/26/04	CAI	SM510A&B
				<2	11/16/04	CAI	SM510A&B
Dissolved Residue, mg/l	56	81	25	169	11/15/04	JKD	EPA160.1
ium, ug/l	<1.0	<1.0	<1.0	<1.0	12/07/04	CMF	EPA213.2
Copper, ug/l	28	41	43	46	11/14/04	ADD	EPA220.1
Total Chromium, ug/l	<5.0	<5.0	<5.0	<5.0	11/19/04	LFJ	EPA200.7
Nickel, ug/l	< 10	< 10	< 10	< 10	11/18/04	LFJ	EPA200.7
Zinc, ug/l	< 10	< 10	< 10	< 10	11/17/04	ADD	EPA289.1
Sulfate, mg/l	36.3	6.1	5.1	5.8	11/19/04	TRB	EPA375.4
Static Water Level, Feet	6.12	4.38	9.29	5.69	11/12/04	RJH	

ENVIRONMENT 1, INC.

LAB ID#10

RECEIVED
MAR 2 5 2005
BY: D. Gardner

Site Name: Weiger N (Old) Bob Hill ID# 146 Sample Date 3/1/05

Total Hours 3.5 Site Contact 2402 Analyst(s)

Location	Static Water Level	Well Depth	Feet of Water	Gallons in Well	Gallons Purged	# of Bails	Temp C	Cond. uMhos	pH Units	pH Time	Collect Time	Odor	Appear.
LF1	5.71	13.81	8.10	1.3	3.9	16	15		5.4	1000	1000	N	C
LF2	3.87	13.81	9.94	1.5	4.5	18	13		6.0	1015	1015	N	C
LF3	7.71	13.76	6.05	1.0	3.0	12	15		5.3	0945	0945	N	C
LF4	4.91	15.04	10.13	1.6	4.8	20	15	E	6.5	0935	0935	N	S

COLOR: E – EARTHY M – METHANE P – PETROLEUM N – NONE

APPEARANCE: C = CLEAR T = TURBID S = SILTY

onment 1, Incorporated

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

RECEIVED
MAR 2 5 2005
BY: D Gardner

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 03/01/05
DATE REPORTED : 03/21/05

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.4	6.0	5.3	6.5	03/01/05	RJH	EPA150.1
Nitrate Nitrogen, mg/l	1.60	0.06	0.36	0.07	03/02/05	CAI	EPA353.2
Phenol, ug/l	<2	<4	<2	<2	03/08/05	CAI	SM510A&B
Total Dissolved Residue, mg/l	73	70	42	341	03/01/05	JKD	EPA160.1
dmium, ug/l	<1.0	<1.0	<1.0	<1.0	03/11/05	CMF	EPA213.2
er, ug/l	< 10	< 10	< 10	< 10	03/08/05	ADD	EPA220.1
Chromium, ug/l	<5.0	<5.0	<5.0	<5.0	03/07/05	LFJ	EPA200.7
Nickel, ug/l	< 10				03/07/05	LFJ	EPA200.7
		< 10	< 10	< 10	03/09/05	LFJ	EPA200.7
Zinc, ug/l	< 10	18	< 10	16	03/14/05	ADD	EPA289.1
Sulfate, mg/l	24.3	6.9	7.5	38.7	03/04/05	TRB	EPA375.4
Static Water Level, Feet	5.71	3.87	7.71	4.91	03/01/05	RJH	

ENVIRONMENT 1, INC.

LAB ID#10

WELL SAMPLING FIELD LOG

Client WEYER NEW BERN ID# 146 Sample Date 7.20.05

Total Hours 3.5 Site Contact _____ Analyst(s) _____

Location	Static Water Level	Well Depth	Feet of Water	Gallons in Well	Gallons Purged	# of Bails	Temp C	Cond. uMhos	pH Units	pH Time	Collect Time	Odor	Appear.
LF1	5.39	13.81	8.42	1.3	3.9	16	24	117	5.5	0925	0925	N	C
LF2	3.54	13.81	10.27	1.6	4.8	20	20	129	6.0	0920	0920	N	C
LF3	8.00	13.76	5.76	.8	2.4	10	22	36	5.1	0935	0935	N	C
LF4	4.59	15.04	10.45	1.6	4.8	20	24	455	6.6	0950	0950	N	S

COLOR: E=EARTHY M=METHANE P=PETROLEUM N=NONE APPEARANCE: C=CLEAR T=TURBID S=SILTY

nvironment 1, Incorporated

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 07/20/05
DATE REPORTED : 08/02/05

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.5	6.0	5.1	6.6	07/20/05	RJH	EPA150.1
Nitrate Nitrogen, mg/l	2.15	<0.04	<0.04	0.06	07/22/05	TWA	EPA353.2
Phenol, ug/l	<2	<4	<2	<2	07/26/05	JKD	SM510A&B
Total Dissolved Residue, mg/l	60	96	21	231	07/22/05	ACM	EPA160.1
					07/26/05	ACM	EPA160.1
					07/22/05	ACM	EPA160.1
mium, ug/l	<1.0	<1.0	2	<1.0	07/28/05	CMF	EPA213.2
Copper, ug/l	< 10	< 10	< 10	< 10	07/26/05	ADD	EPA220.1
Total Chromium, ug/l	6	<5.0	<5.0	5	07/26/05	LFJ	EPA200.7
Nickel, ug/l	< 10	< 10	< 10	< 10	07/26/05	LFJ	EPA200.7
Zinc, ug/l	16	17	12	17	07/22/05	ADD	EPA289.1
Sulfate, mg/l	30.6	5.2	6.0	66.4	07/22/05	TRB	EPA375.4
Static Water Level, feet	5.39	3.54	8.00	4.59	07/20/05	RJH	

ENVIRONMENT 1, INC.

LAB ID#10

WELL SAMPLING FIELD LOG

Deyer New Bern ID# 146 Sample Date 11 04 05

Total Hours 3.5 Site Contact _____ Analyst(s) _____

Location	Static Water Level	Well Depth	Feet of Water	Gallons in Well	Gallons Purged	# of Bails	Temp C	Cond. uMhos	pH Units	pH Time	Collect Time	Odor	Appear.
LF1	5.69	13.81	8.12	1.3	3.9	16	22	127	5.4	1045	1045	N	S
LF2	3.83	13.81	9.98	1.5	4.5	18	20	162	6.0	1120	1120	N	S
LF3	8.68	13.76	5.08	.8	2.4	10	22	34	5.0	1050	1050	N	C
LF4	4.97	15.04	10.07	1.6	4.8	20	22	390	6.5	1105	1105	N	S

Odor: E=EARTHY M=METHANE P=PETROLEUM N=NONE APPEARANCE: C=CLEAR T=TURBID S=SILTY

ironment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 11/04/05
DATE REPORTED : 11/25/05

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.4	6.0	5.0	6.5	11/04/05	RJH	EPA150.1
Nitrate Nitrogen, mg/l	1.75	0.08	0.04	0.07	11/09/05	JKD	EPA353.2
Phenol, ug/l	<2	<2	<2	2	11/08/05	JKD	SM510A&B
Total Dissolved Residue, mg/l	67	118	85	185	11/07/05	ACM	EPA160.1
[illegible]ium, ug/l	2	<1.0	<1.0	<1.0	11/08/05	CMF	EPA200.8
C[illegible]r, ug/l	< 10	10	< 10	16	11/11/05	ADD	EPA220.1
Total Chromium, ug/l	< 20	< 20	< 20	< 20	11/08/05	CMF	EPA200.8
Nickel, ug/l	< 100	< 100	< 100	< 100	11/08/05	CMF	EPA200.8
Zinc, ug/l	< 10	15	< 10	25	11/08/05	ADD	EPA289.1
Sulfate, mg/l	21.2	<5.0	<5.0	6.6	11/11/05	TRB	EPA375.4
Static Water Level, feet	5.69	3.83	8.68	4.97	11/04/05	RJH	

envirochem (SM)

ANALYTICAL & CONSULTING CHEMISTS

Environmental Chemists, Inc.

6602 Windmill Way • Wilmington, NC 28405
(910) 392-0223 (Lab) • (910) 392-4424 (Fax)

710 Bowsertown Road • Manteo, NC 27954
(252) 473-5702

NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Customer:

ENVIRONMENT - 1
Post Office Box 7085
Greenville, NC 27858
Attn: DeeDee Woolard

Date of Report: November 16, 2005

Purchase Order #:

Report Number: 5-8413

REPORT OF ANALYSIS

Date Sampled: 11/04/05

Sampled By: Client

Report To: DeeDee Woolard

Project :

ATER: Landfill

THOD 604 Analyte µg/L	*Quantitation Limit µg/L*	Well # 1 # 19300	Well # 2 # 19301	Well # 3 # 19302	Well # 4 # 19303
4-Chloro-3-methylphenol	5.0	BQL	BQL	BQL	BQL
2-Chlorophenol	5.0	BQL	BQL	BQL	BQL
2,4-Dichlorophenol	5.0	BQL	BQL	BQL	BQL
2,4-Dimethylphenol	5.0	BQL	BQL	BQL	BQL
2,4-Dinitrophenol	5.0	BQL	BQL	BQL	BQL
2-Methyl-4,6-dinitrophenol	5.0	BQL	BQL	BQL	BQL
2-Nitrophenol	5.0	BQL	BQL	BQL	BQL
4-Nitrophenol	5.0	BQL	BQL	BQL	BQL
Pentachlorophenol	5.0	BQL	BQL	BQL	BQL
Phenol	5.0	BQL	BQL	BQL	BQL
2,4,6-Trichlorophenol	5.0	BQL	BQL	BQL	BQL
Date Analyzed		11/11/05			

Comments:
BQL = Below Quantitation Limit.

Reviewed by Rhonda Stokes

ENVIRONMENT 1, INC.

LAB ID#10

WELL SAMPLING FIELD LOG

Client WEYER. NEW BERN ID# 146 Sample Date 03 20 06

Total Hours 3.5 Site Contact 2402 Analyst(s) _____

Location	Static Water Level	Well Depth	Feet of Water	Gallons in Well	Gallons Purged	# of Bails	Temp C	Cond. uMhos	pH Units	pH Time	Collect Time	Odor	Appear.
LF1	6.04	13.81	7.77	1.2	3.6	15	17	152	5.6	1015	1015	N	C
LF2	4.13	13.81	9.68	1.5	4.5	18	15	177	6.0	1005	1005	N	C
LF3	9.19	13.76	4.57	.7	2.1	9	16	31	4.9	1030	1030	N	C
LF4	5.59	15.04	9.45	1.5	4.5	18	16	395	6.6	1050	1050	N	S

COLOR: E = EARTHY M = METHANE P = PETROLEUM N = NONE APPEARANCE: C = CLEAR T = TURBID S = SILTY

ronment 1, Incorporated

.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

REC'D APR 0 3 2006

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 03/20/06
DATE REPORTED : 03/30/06

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.6	6.0	4.9	6.6	03/20/06	RJH	EPA150.1
Nitrate Nitrogen, mg/l	1.03	<0.04	<0.04	<0.04	03/22/06	TWA	EPA353.2
Phenol, ug/l	<2	<2	<2	<2	03/21/06	JKD	SM510A&B
Total Dissolved Residue, mg/l	62	108		198	03/20/06	MRJ	EPA160.1
T[illegible] Dissolved Residue, mg/l			9.7		03/21/06	MRJ	EPA160.1
C[illegible]um, ug/l	<1.0	<1.0	<1.0	<1.0	03/23/06	CMF	EPA213.2
Copper, ug/l	< 10	< 10	< 10		03/23/06	LFJ	EPA200.7
Copper, ug/l				142	03/27/06	ADD	EPA220.1
Total Chromium, ug/l	<5.0	<5.0	<5.0	10	03/23/06	LFJ	EPA200.7
Nickel, ug/l	< 10	< 10	< 10	< 10	03/23/06	LFJ	EPA200.7
Zinc, ug/l	< 10	< 10	< 10	21	03/23/06	ADD	EPA289.1
Sulfate, mg/l	28.3	5.4	5.5	6.9	03/24/06	TRB	EPA375.4
Static Water Level, feet	6.04	4.13	9.19	5.59	03/20/06	RJH	

ENVIRONMENT 1, INC.

LAB ID#10

WELL SAMPLING FIELD LOG

C WEYER. NEW BERN ID# 146 Sample Date July 5 06

Total Hours 3.5 Site Contact 2402 Analyst(s)

Location	Static Water Level	Well Depth	Feet of Water	Gallons in Well	Gallons Purged	# of Bails	Temp C	Cond. uMhos	pH Units	pH Time	Collect Time	Odor	Appear.
					✓		✓	✓	✓			✓	✓
LF1	8.71	13.81	5.10	.8	2.4	10	23	180	5.5	1055	1055	N	C
LF2	6.77	13.81	7.04	1.2	3.6	15	18	157	5.9	1045	1045	N	C
LF3	11.38	13.76	2.38	.4	1.2	5	21	39	4.9	1100	1100	N	C
LF4	7.57	15.04	7.47	1.2	3.6	15	21	446	6.6	1115	1115	N	S

E = EARTHY M = METHANE P = PETROLEUM N= NONE APPEARANCE: C = CLEAR T = TURBID S = SILTY

Environment 1, Incorporated

BOX 7085, 114 OAKMONT DRIVE
ENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

REC'D JUL 21 2006

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 07/05/06
DATE REPORTED : 07/18/06

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.5	5.9	4.9	6.6	07/05/06	RJH	EPA150.1
Nitrate Nitrogen, mg/l	1.65	<0.04	0.46	<0.04	07/07/06	TWA	EPA353.2
Phenol, ug/l	3	3	2	3	07/11/06	JKD	SM510A&B
Total Dissolved Residue, mg/l	71	89	67	217	07/09/06	SEJ	EPA160.1
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	07/12/06	CMF	EPA213.2
Copper, ug/l	< 10	< 10	< 10	< 10	07/11/06	LFJ	EPA200.7
Total Chromium, ug/l	11	6	6	11	07/10/06	LFJ	EPA200.7
Nickel, ug/l	< 10	< 10	< 10	< 10	07/10/06	LFJ	EPA200.7
Zinc, ug/l	< 10	< 10	< 10	< 10	07/10/06	ADD	EPA289.1
Sulfate, mg/l	30.4	12.3	<5.0	13.5	07/06/06	TRB	EPA375.4
Static Water Level, feet	8.71	6.77	11.38	7.57	07/05/06	RJH	

ENVIRONMENT 1, INC.

LAB ID#10

REC'D NOV 27 2006

WELL SAMPLING FIELD LOG

WEYER NEW BERN ID# 146 Sample Date NOV 2 06

Total Hours 3.5 Site Contact 2402 Analyst(s)

Location	Static Water Level	Well Depth	Feet of Water	Gals in Well	Gals Purged	pH 1	pH 2	pH 3	Temp. C	Cond. uMhos 1	Cond. uMhos 2	Coond. uMhos 3	Collect Time	DO	ORP
LF 1	5.86	13.81	7.95	1.2	3.6	5.28	5.29	5.3	21	80	87	93	0920		
LF 2	3.92	13.81	9.89	1.5	4.5	6.06	6.03	6.0	19	154	149	149	0855		
LF 3	8.92	13.76	4.84	.7	2.1	4.75	4.73	4.7	21	25	25	26	0945		
LF 4	5.11	15.04	9.93	1.5	4.5	6.41	6.49	6.5	20	473	473	477	1005		

ODOR ?

APPEARANCE ?

Environment 1, Incorporated

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

REC'D NOV 27 2006

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 11/02/06
DATE REPORTED : 11/20/06

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.3	6.0	4.7	6.5	11/02/06	RJH	EPA150.1
Nitrate Nitrogen, mg/l	0.36	<0.04	0.10	<0.04	11/03/06	TWA	EPA353.2
Phenol, ug/l	<2	<2	<2	<2	11/07/06	JKD	SM510A&B
Total Dissolved Residue, mg/l	70	125	18	276	11/03/06	MDM	SM2540C
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	11/06/06	CMF	EPA213.2
Copper, ug/l	< 10	< 10	< 10	< 10	11/03/06	LFJ	EPA200.7
Total Chromium, ug/l	<5.0	<5.0	<5.0	<5.0	11/02/06	LFJ	EPA200.7
Nickel, ug/l	< 10	< 10	< 10	< 10	11/02/06	LFJ	EPA200.7
Zinc, ug/l	< 10	< 10	< 10	< 10	11/03/06	ADD	EPA289.1
Sulfate, mg/l	29.2	5.3	5.7	35.6	11/09/06	TRB	EPA375.4
Static Water Level, feet	5.86	3.92	8.92	5.11	11/02/06	RJH	

envirochem (SM)

ANALYTICAL & CONSULTING CHEMISTS

Environmental Chemists, Inc.

6602 Windmill Way • Wilmington, NC 28405
(910) 392-0223 (Lab) • (910) 392-4424 (Fax)

710 Bowsertown Road • Manteo, NC 27954
(252) 473-5702

NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Customer:

ENVIRONMENT - 1
Post Office Box 7085
Greenville, NC 27858
Attn: DeeDee Woodard

Date of Report: November 16, 2006

Purchase Order #:

Report Number: 6-9347

REPORT OF ANALYSIS

Date Sampled: 11/02/06

Sampled By: Client

Report To: DeeDee Woodard

Project :

WATER:

METHOD 604 Analyte µg/L	Landfill Well # 1 # 21409	Landfill Well # 2 # 21410	Landfill Well # 3 # 21411	Landfill # 4 # 4 # 21412	*Quantitation Limit µg/L*
4-Chloro-3-methylphenol	BQL	BQL	BQL	BQL	5.0
2-Chlorophenol	BQL	BQL	BQL	BQL	5.0
2,4-Dichlorophenol	BQL	BQL	BQL	BQL	5.0
2,4-Dimethylphenol	BQL	BQL	BQL	BQL	5.0
2,4-Dinitrophenol	BQL	BQL	BQL	BQL	5.0
2-Methyl-4,6-dinitrophenol	BQL	BQL	BQL	BQL	5.0
2-Nitrophenol	BQL	BQL	BQL	BQL	5.0
4-Nitrophenol	BQL	BQL	BQL	BQL	5.0
Pentachlorophenol	BQL	BQL	BQL	BQL	5.0
Phenol	BQL	BQL	BQL	BQL	5.0
2,4,6-Trichlorophenol	BQL	BQL	BQL	BQL	5.0
Date Analyzed	11/13/06				
Date Extracted	11/06/06				

Comments:

BQL = Below Quantitation Limit.

Reviewed by Jim Price / Rhonda Stokes

ENVIRONMENT 1, INC.

LAB ID#10

WELL SAMPLING FIELD LOG

Weyer New Bed ID# 146 Sample Date 11·30·06

Total Hours 3.5 Site Contact _____ Analyst(s) _____

Location	Static Water Level	Well Depth	Feet of Water	Gals in Well	Gals Purged	pH 1	pH 2	pH 3	Temp. C	Cond. uMhos 1	Cond. uMhos 2	Coond. uMhos 3	Collect Time	DO	ORP
LF1	4.95	13.81	8.86	1.3	3.9	5.48	5.42	5.4	19	71	72	80	1325		
LF2	3.57	13.81	10.24	1.6	4.8	6.12	6.09	6.1	17	156	153	151	1310		
LF3	7.51	13.76	6.25	1.0	3.0	4.88	4.87	4.8	20	31	28	28	1340		
LF4	4.36	15.04	10.68	1.6	4.8	6.43	6.49	6.5	19	455	455	456	1355		

ronment 1, Incorporated

REC'D DEC 1 5 2006

OX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 11/30/06
DATE REPORTED : 12/11/06

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.4	6.1	4.8	6.49	11/30/06	RJH	EPA150.1
COD, mg/l	18	63	14	39	12/04/06	TRB	HACH8000
Ammonia Nitrogen, mg/l	<0.04	0.35	<0.04	1.11	12/05/06	TWA	EPA350.1
To Organic Carbon, mg/l	1.44	21.32	<1.00	13.33	12/05/06	SEJ	EPA415.1
S Water Level, feet	4.95	3.57	7.57	4.36	11/30/06	RJH	

ronment 1, Incorporated

RECD DEC 15 2006

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 146

ANALYST: CHS
DATE COLLECTED: 11/30/06
DATE ANALYZED: 12/07/06
DATE REPORTED: 12/11/06

Page: 1

REVIEWED BY:

VOLATILE ORGANICS
STANDARD METHODS 6230D

PARAMETERS, ug/l	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4
1. Benzene	<0.50	<0.50	<0.50	<0.50
2. Bromobenzene	<0.50	<0.50	<0.50	<0.50
3. Bromochloromethane	<0.50	<0.50	<0.50	<0.50
4. Bromodichloromethane	<0.50	<0.50	<0.50	<0.50
5. Bromoform	<0.50	<0.50	<0.50	<0.50
6. Bromomethane	<0.50	<0.50	<0.50	<0.50
7. N-Butylbenzene	<0.50	<0.50	<0.50	<0.50
8. Sec-Butylbenzene	<0.50	<0.50	<0.50	<0.50
9. Tert-Butylbenzene	<0.50	<0.50	<0.50	<0.50
10. Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50
11. Chlorobenzene	<0.50	<0.50	<0.50	<0.50
12. Chloroethane	<0.50	<0.50	<0.50	<0.50
13. Chloroform	<0.50	<0.50	<0.50	<0.50
14. Chloromethane	<0.50	<0.50	<0.50	<0.50
15. 2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50
16. 4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50
17. Dibromochloromethane	<0.50	<0.50	<0.50	<0.50
18. 1,2-Dibromo-3-Chloropropane	<0.50	<0.50	<0.50	<0.50
19. 1,2-Dibromoethane	<0.50	<0.50	<0.50	<0.50
20. Dibromomethane	<0.50	<0.50	<0.50	<0.50
21. 1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50
22. 1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50
23. 1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50
24. Dichlorodifluoromethane	<0.50	<0.50	<0.50	<0.50
25. 1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50
26. 1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50
27. 1,1-Dichloroethene	<0.50	<0.50	<0.50	<0.50
28. Cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50
29. trans-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50
30. 1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50
31. 1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50
32. 2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50
33. 1,1-Dichloropropene	<0.50	<0.50	<0.50	<0.50
34. Cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50
35. trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50
36. Ethylbenzene	<0.50	<0.50	<0.50	<0.50
37. Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50
38. Isopropylbenzene	<0.50	<0.50	<0.50	<0.50
39. 4-Isopropyltoluene	<0.50	<0.50	<0.50	<0.50
40. Methylene Chloride	<0.50	<0.50	<0.50	<0.50
41. Naphthalene	<0.50	<0.50	<0.50	<0.50
42. Propylbenzene	<0.50	<0.50	<0.50	<0.50
43. Styrene	<0.50	<0.50	<0.50	<0.50
44. 1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50
45. 1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50
46. Tetrachloroethene	<0.50	<0.50	<0.50	<0.50
47. Toluene	<0.50	<0.50	<0.50	<0.50
48. 1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50

ronment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

OX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

REC'D DEC 15 2006

CLIENT: WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 146

ANALYST: CHS
DATE COLLECTED: 11/30/06
DATE ANALYZED: 12/07/06
DATE REPORTED: 12/11/06

REVIEWED BY:

VOLATILE ORGANICS
STANDARD METHODS 6230D

PARAMETERS, ug/l	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4
49. 1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50
50. 1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50
51. 1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50
52. Trichloroethene	<0.50	<0.50	<0.50	<0.50
53. Trichlorofluoromethane	<0.50	<0.50	<0.50	<0.50
54. 1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50
55. 1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50
56. 1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50
57. Vinyl Chloride	<0.50	<0.50	<0.50	<0.50
58. Total Xylenes	<1.00	<1.00	<1.00	<1.00
59. Methl Tert Butyl Ether	<1.00	<1.00	<1.00	<1.00

RLL

ENVIRONMENT 1, INC.

LAB ID#10

WELL SAMPLING FIELD LOG

Client WEYER NEW BERN ID# 146 Sample Date 3·26·07

Total Hours 3.5 Site Contact 2402 Analyst(s) _____

Location	Static Water Level	Well Depth	Feet of Water	Gallons in Well	Gallons Purged	# of Balls	Temp C	Cond. uMhos	pH Units	pH Time	Collect Time	DO	ORP
LF1	5.85	13.81	8.96	1.5	4.5	18	16	74	4.9	1025	1025		
LF2	3.73	13.81	10.08	1.6	4.8	20	15	178	6.1	0955	0955		
LF3	8.87	13.76	4.89	.7	2.1	9	15	27	4.4	1050	1050		
LF4	8.11	15.24	6.93	1.0	3.0	12	16	500	6.4	1120	1120		

REC'D MAY 04 2007

vironment 1, Incorporated

BOX 7085, 114 OAKMONT DRIVE
ENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 03/26/07
DATE REPORTED : 04/30/07

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	4.7	6.1	4.4	6.4	03/26/07	RJH	SM4500HB
COD, mg/l	11	39	<10	39	03/29/07	TRB	HACH8000
Ammonia Nitrogen, mg/l	0.04	0.23	0.08	1.14	03/27/07	TWA	EPA350.1
Nitrate Nitrogen, mg/l	0.75	<0.04	<0.04	<0.04	03/28/07	JKD	EPA353.2
[illegible]ol, ug/l	<2	<2	<2	<2	04/06/07	SEJ	SM510A&B
[illegible] Organic Carbon, mg/l	1.71	20.98	<1.00	14.69	03/28/07	SEJ	SM5310C
[illegible] Dissolved Residue, mg/l	60	94	40	288	03/27/07	MRJ	SM2540C
[illegible]ate, mg/l	19.7	<5.0	<5.0	25.2	03/30/07	TRB	EPA375.4
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	04/03/07	CMF	EPA213.2
Copper, ug/l	<10	<10	<10	<10	03/28/07	LFJ	EPA200.7
Total Chromium, ug/l	<5.0	<5.0	<5.0	<5.0	03/28/07	LFJ	EPA200.7
Nickel, ug/l	< 10	< 10	< 10	< 10	03/28/07	LFJ	EPA200.7
Zinc, ug/l	< 10	< 10	< 10	< 10	04/04/07	ADD	EPA289.1
Static Water Level, feet	5.85	3.73	8.87	8.11	03/26/07	RJH	

envirochem (SM)

ANALYTICAL & CONSULTING CHEMISTS

Environmental Chemists, Inc.

6602 Windmill Way • Wilmington, NC 28405
(910) 392-0223 (Lab) • (910) 392-4424 (Fax)

710 Bowsertown Road • Manteo, NC 27954
(252) 473-5702

NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Customer:

ENVIRONMENT - 1
Post Office Box 7085
Greenville, NC 27858
Attn: DeeDee Woodard

Date of Report: April 12, 2007

Purchase Order #:

Report Number: 7-2269

REPORT OF ANALYSIS

Date Sampled: 03/26/07

Sampled By: Client

Report To: DeeDee Woodard

Project:

WATER:

METHOD 604 Analyte µg/L	Landfill Well # 1 # 5272	Landfill Well # 2 # 5273	Landfill Well # 3 # 5274	Landfill Well # 4 # 5275	Quantitation Limit µg/L
4-Chloro-3-methylphenol	BQL	BQL	BQL	BQL	5.0
2-Chlorophenol	BQL	BQL	BQL	BQL	5.0
2,4-Dichlorophenol	BQL	BQL	BQL	BQL	5.0
2,4-Dimethylphenol	BQL	BQL	BQL	BQL	5.0
2,4-Dinitrophenol	BQL	BQL	BQL	BQL	5.0
2-Methyl-4,6-dinitrophenol	BQL	BQL	BQL	BQL	5.0
2-Nitrophenol	BQL	BQL	BQL	BQL	5.0
4-Nitrophenol	BQL	BQL	BQL	BQL	5.0
Pentachlorophenol	BQL	BQL	BQL	BQL	5.0
Phenol	BQL	BQL	BQL	BQL	5.0
2,4,6-Trichlorophenol	BQL	BQL	BQL	BQL	5.0
Date Analyzed	04/02/07				
Date Extracted	03/28/07				

Comments:

BQL = Below Quantitation Limit.

Reviewed by Jim Peice, Rhonda Stokes

ENVIRONMENT 1, INC.

LAB ID#10

WELL SAMPLING FIELD LOG

Client WEYER NEW BERN ID# 146 Sample Date JULY 11 07

Total Hours 3.5 Site Contact _____ Analyst(s) _____

Location	Static Water Level	Well Depth	Feet of Water	Gallons in Well	Gallons Purged	# of Bails	Temp C	Cond. uMhos	pH Units	pH Time	Collect Time	DO	ORP
LF1	6.14	13.81	7.67	1.2	3.6	15	23	132	5.3	0945	0945		
LF2	4.04	13.81	9.77	1.5	4.5	18	20	137	5.9	0920	0920		
LF3	9.42	13.76	4.34	.7	2.1	9	21	40	4.7	1015	1015		
LF4	5.49	15.04	9.55	1.5	4.5	18	21	504	6.5	1035	1035		

onment 1, Incorporated

REC'D AUG 10 2007

Drinking Water ID: 37715
Wastewater ID: 10

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 07/11/07
DATE REPORTED : 08/08/07

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.3	5.9	4.7	6.5	07/11/07	RJH	SM4500HB
COD, mg/l	19	35	14	45	07/19/07	TRB	HACH8000
Ammonia Nitrogen, mg/l	<0.04	0.10	<0.04	1.16	07/13/07	SSR	EPA350.1
Nitrate Nitrogen, mg/l	0.42	0.06	0.69	<0.04	07/11/07	TWA	EPA353.2
Phenol, ug/l	<2	<2	<2	<2	07/16/07	SEJ	SM510A&B
Total Organic Carbon, mg/l	2.04	14.18	<1.00	10.76	07/12/07	SEJ	SM5310C
Total Dissolved Residue, mg/l	79	95	41	297	07/12/07	SMA	SM2540C
Sulfate, mg/l	26.4	<5.0	7.6	36.5	07/16/07	TRB	SM4500-SO4E
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	07/17/07	CMF	SM3113B
Copper, ug/l	< 10	< 10	< 10	< 10	07/13/07	LFJ	EPA200.7
Total Chromium, ug/l	<5.0	<5.0	<5.0	<5.0	07/13/07	LFJ	EPA200.7
Nickel, ug/l	< 10	< 10	< 10	< 10	07/13/07	LFJ	EPA200.7
Zinc, ug/l	< 10	< 10	< 10	< 10	07/24/07	ADD	SM3111B
Static Water Level, feet	6.14	4.04	9.42	5.49	07/11/07	RJH	

envirochem
ANALYTICAL & CONSULTING CHEMISTS

Environmental Chemists, Inc.

6602 Windmill Way • Wilmington, NC 28405
(910) 392-0223 (Lab) • (910) 392-4424 (Fax)

710 Bowsertown Road • Manteo, NC 27954
(252) 473-5702

NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Customer:

ENVIRONMENT - 1
Post Office Box 7085
Greenville, NC 27858
Attn: DeeDee Woodard

Date of Report: July 30, 2007

Purchase Order #:

Report Number: 7-6726

REPORT OF ANALYSIS

Date Sampled: 07/11/07

Sampled By: Client

Report To: DeeDee Woodard

Project:

WATER:

METHOD 604 Analyte µg/L	Landfill Well # 1 # 14026	Landfill Well # 2 # 14027	Landfill Well # 3 # 14028	Landfill Well # 4 # 14029	*Quantitation Limit µg/L*
4-Chloro-3-methylphenol	BQL	BQL	BQL	BQL	5.0
2-Chlorophenol	BQL	BQL	BQL	BQL	5.0
2,4-Dichlorophenol	BQL	BQL	BQL	BQL	5.0
2,4-Dimethylphenol	BQL	BQL	BQL	BQL	5.0
2,4-Dinitrophenol	BQL	BQL	BQL	BQL	5.0
2-Methyl-4,6-dinitrophenol	BQL	BQL	BQL	BQL	5.0
2-Nitrophenol	BQL	BQL	BQL	BQL	5.0
4-Nitrophenol	BQL	BQL	BQL	BQL	5.0
Pentachlorophenol	BQL	BQL	BQL	BQL	5.0
Phenol	BQL	BQL	BQL	BQL	5.0
2,4,6-Trichlorophenol	BQL	BQL	BQL	BQL	5.0
Date Analyzed	07/17/07				
Date Extracted	07/17/07				

Comments:

BQL = Below Quantitation Limit.

Reviewed by Alicia Bode Jim Pierce

ENVIRONMENT 1, INC.

LAB ID#10

WELL SAMPLING FIELD LOG

RECD JAN 02 2008

Client Weyer New Bern ID# 146 Sample Date 11-13-07

Total Hours 3.5 Site Contact 2402 Analyst(s)

Location	Static Water Level	Well Depth	Feet of Water	Gallons in Well	Gallons Purged	# of Bails	Temp C	Cond. uMhos	pH Units	pH Time	Collect Time	Odor	Appear.
LF1	6.86	13.81	6.95	1.0	3.0	12	21	121	5.5	0935	0935		
LF2	5.80	13.81	7.99	1.2	3.6	15	19	198	6.1	0910	0910		
LF3	9.66	13.76	4.10	.7	2.1	9	21	47	4.8	0955	0955		
LF4	6.23	15.08	8.81	1.3	3.9	16	20	411	6.7	1015	1015		

COLOR: E = EARTHY M = METHANE P = PETROLEUM N = NONE

APPEARANCE: C = CLEAR T = TURBID S = SILTY

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 11/13/07
DATE REPORTED : 12/20/07

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.5	6.1	4.8	6.7	11/13/07	RJH	SM4500HB
COD, mg/l	25	46	15	39	11/14/07	TRB	HACH8000
Ammonia Nitrogen, mg/l	0.05	0.43	<0.04	0.87	11/15/07	SSR	EPA350.1
Nitrate Nitrogen, mg/l	<0.04	<0.04	1.01	<0.04	11/14/07	TWA	EPA353.2
Total Organic Carbon, mg/l	3.38	20.02	<1.00	14.01	11/15/07	SEJ	SM5310C
Total Dissolved Residue, mg/l	64	88	58	219	11/15/07	TRB	SM2540C
Sulfate, mg/l	21.2	<5.	8.3	<5.0	11/19/07	TRB	SM4500-SO4E
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	11/23/07	CMF	SM3113B
Copper, ug/l	< 10	< 10	< 10	< 10	11/15/07	LFJ	EPA200.7
Total Chromium, ug/l	<5.0	12	<5.0	<5.0	11/15/07	LFJ	EPA200.7
Nickel, ug/l	<10	<10	<10	<10	12/06/07	LFJ	EPA200.7
Zinc, ug/l	< 10	< 10	< 10	< 10	11/20/07	ADD	SM3111B
Static Water Level, feet	6.86	5.82	9.66	6.23	11/13/07	RJH	

ironment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 11/30/07
DATE REPORTED : 12/11/07

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
Phenol, ug/l	<2	<2	<2	<2	12/10/07	SEJ	SM510A&B

ironment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 146

ANALYST: MRJ
DATE COLLECTED: 11/13/07
DATE ANALYZED: 11/17/07
DATE REPORTED: 12/20/07

REVIEWED BY:

VOLATILE ORGANICS
STANDARD METHODS 6230D

PARAMETERS, ug/l	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4
1. Benzene	<0.50	<0.50	<0.50	<0.50
2. Bromobenzene	<0.50	<0.50	<0.50	<0.50
3. Bromochloromethane	<0.50	<0.50	<0.50	<0.50
4. Bromodichloromethane	<0.50	<0.50	<0.50	<0.50
5. Bromoform	<0.50	<0.50	<0.50	<0.50
6. Bromomethane	<0.50	<0.50	<0.50	<0.50
7. N-Butylbenzene	<0.50	<0.50	<0.50	<0.50
8. Sec-Butylbenzene	<0.50	<0.50	<0.50	<0.50
9. Tert-Butylbenzene	<0.50	<0.50	<0.50	<0.50
10. Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50
11. Chlorobenzene	<0.50	<0.50	<0.50	<0.50
12. Chloroethane	<0.50	<0.50	<0.50	<0.50
13. Chloroform	<0.50	<0.50	<0.50	<0.50
14. Chloromethane	<0.50	<0.50	<0.50	<0.50
15. 2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50
16. 4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50
17. Dibromochloromethane	<0.50	<0.50	<0.50	<0.50
18. 1,2-Dibromo-3-Chloropropane	<0.50	<0.50	<0.50	<0.50
19. 1,2-Dibromoethane	<0.50	<0.50	<0.50	<0.50
20. Dibromomethane	<0.50	<0.50	<0.50	<0.50
21. 1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50
22. 1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50
23. 1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50
24. Dichlorodifluoromethane	<0.50	<0.50	<0.50	<0.50
25. 1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50
26. 1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50
27. 1,1-Dichloroethene	<0.50	<0.50	<0.50	<0.50
28. Cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50
29. trans-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50
30. 1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50
31. 1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50
32. 2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50
33. 1,1-Dichloropropene	<0.50	<0.50	<0.50	<0.50
34. Cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50
35. trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50
36. Ethylbenzene	<0.50	<0.50	<0.50	<0.50
37. Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50
38. Isopropylbenzene	<0.50	<0.50	<0.50	<0.50
39. 4-Isopropyltoluene	<0.50	<0.50	<0.50	<0.50
40. Methylene Chloride	<0.50	<0.50	<0.50	<0.50
41. Naphthalene	<0.50	<0.50	<0.50	<0.50
42. Propylbenzene	<0.50	<0.50	<0.50	<0.50
43. Styrene	<0.50	<0.50	<0.50	<0.50
44. 1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50
45. 1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50
46. Tetrachloroethene	<0.50	<0.50	<0.50	<0.50
47. Toluene	<0.50	<0.50	<0.50	<0.50
48. 1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50

ironment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 146

ANALYST: MRJ
DATE COLLECTED: 11/13/07
DATE ANALYZED: 11/17/07
DATE REPORTED: 12/20/07

REVIEWED BY:

VOLATILE ORGANICS
STANDARD METHODS 6230D

PARAMETERS, ug/l	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4
49. 1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50
50. 1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50
51. 1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50
52. Trichloroethene	<0.50	<0.50	<0.50	<0.50
53. Trichlorofluoromethane	<0.50	<0.50	<0.50	<0.50
54. 1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50
55. 1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50
56. 1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50
57. Vinyl Chloride	<0.50	<0.50	<0.50	<0.50
58. Total Xylenes	<1.00	<1.00	<1.00	<1.00
59. Methl Tert Butyl Ether	<1.00	<1.00	<1.00	<1.00

envirochem
ANALYTICAL & CONSULTING CHEMISTS

Environmental Chemists, Inc.

6602 Windmill Way • Wilmington, NC 28405
(910) 392-0223 (Lab) • (910) 392-4424 (Fax)

710 Bowsertown Road • Manteo, NC 27954
(252) 473-5702

NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Customer:

ENVIRONMENT - 1
Post Office Box 7085
Greenville, NC 27858
Attn: DeeDee Woodard

Date of Report: November 28, 2007

Purchase Order #:

Report Number: 7-11160

REPORT OF ANALYSIS

Date Sampled: 11/13/07

Sampled By: Client

Report To: DeeDee Woodard

Project:

LANDFILL WELLS:

METHOD 604 Analyte µg/L	Well # 1 # 25146	Well # 2 # 25147	Well # 3 # 25148	Well # 4 # 25149	*Quantitation Limit µg/L*
4-Chloro-3-methylphenol	BQL	BQL	BQL	BQL	5.0
2-Chlorophenol	BQL	BQL	BQL	BQL	5.0
2,4-Dichlorophenol	BQL	BQL	BQL	BQL	5.0
2,4-Dimethylphenol	BQL	BQL	BQL	BQL	5.0
2,4-Dinitrophenol	BQL	BQL	BQL	BQL	5.0
2-Methyl-4,6-dinitrophenol	BQL	BQL	BQL	BQL	5.0
2-Nitrophenol	BQL	BQL	BQL	BQL	5.0
4-Nitrophenol	BQL	BQL	BQL	BQL	5.0
Pentachlorophenol	BQL	BQL	BQL	BQL	5.0
Phenol	BQL	BQL	BQL	BQL	5.0
2,4,6-Trichlorophenol	BQL	BQL	BQL	BQL	5.0
Date Analyzed	11/21/07				
Date Extracted	11/15/07				

Comments:

BQL = Below Quantitation Limit.

Reviewed by: Jim Pierce

ENVIRONMENT 1, INC.

LAB ID#10

WELL SAMPLING FIELD LOG

Client WEYER NEW BERN ID# 146 Sample Date MAR 3 08

Total Hours 3.5 Site Contact 2402 Analyst(s) _____

Location	Static Water Level	Well Depth	Feet of Water	Gallons In Well	Gallons Purged	# of Balls	Temp C	Cond. uMhos	pH Units	pH Time	Collect Time	Odor	Appear.
LF1	5.99	13.81	7.82	1.2	3.6	15	16	66	5.5	10:30	10:30		
LF2	4.12	13.81	9.69	1.5	4.5	18	15	195	6.1	10:10	10:10		
LF3	8.87	13.76	4.87	.7	2.1	9	17	39	5.1	10:50	10:50		
LF4	5.09	15.04	10.95	1.6	4.8	20	16	365	6.4	11:15	11:15		

COLOR: E = EARTHY M = METHANE P = PETROLEUM N = NONE APPEARANCE: C = CLEAR T = TURBID S = SILTY

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 03/03/08
DATE REPORTED : 04/14/08

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.5	6.1	5.1	6.4	03/03/08	RJH	SM4500HB
COD, mg/l	11	26	<10	27	03/07/08	TRB	HACH8000
Ammonia Nitrogen, mg/l	<0.04	<0.04	<0.04	1.16	03/06/08	SEJ	EPA350.1
Nitrate Nitrogen, mg/l	0.07	<0.04	<0.04	<0.04	03/05/08	TWA	EPA353.2
[illegible]ol, ug/l	<2	<2	<2	<2	03/04/08	SEJ	SM510A&B
Total Organic Carbon, mg/l	2.12	9.97	1.29	12.30	03/04/08	SEJ	SM5310C
Total Dissolved Residue, mg/l	45	119	43	239	03/05/08	TRB	SM2540C
Sulfate, mg/l	21.2	36.2	<5.0	21.7	03/06/08	TRB	SM4500-SO4E
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	03/10/08	CMF	SM3113B
Copper, ug/l	< 10	< 10	< 10	< 10	03/06/08	LFJ	EPA200.7
Total Chromium, ug/l	<5.0	<5.0	<5.0	<5.0	03/06/08	LFJ	EPA200.7
Nickel, ug/l	< 10	< 10	< 10	< 10	03/06/08	LFJ	EPA200.7
Zinc, ug/l	< 10	< 10	< 10	< 10	03/10/08	ADD	SM3111B
Static Water Level, feet	5.99	4.12	8.89	5.09	03/03/08	RJH	

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ANALYTICAL & CONSULTING CHEMISTS

Environmental Chemists, Inc.

6602 Windmill Way • Wilmington, NC 28405
(910) 392-0223 (Lab) • (910) 392-4424 (Fax)

710 Bowsertown Road • Manteo, NC 27954
(252) 473-5702

NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Customer:

ENVIRONMENT - 1
Post Office Box 7085
Greenville, NC 27858
Attn: DeeDee Woodard

Date of Report: April 3, 2008

Purchase Order #:

Report Number: 8-2125

REPORT OF ANALYSIS

Date Sampled: 03/03/08

Sampled By: Client

Report To: DeeDee Woodard

Project:

LANDFILL WELLS:

METHOD 604 Analyte µg/L	Landfill Well # 1 # 4304	Landfill Well # 2 # 4305	Landfill Well # 3 # 4306	Landfill Well # 4 # 4307	*Quantitation Limit µg/L*
4-Chloro-3-methylphenol	BQL	BQL	BQL	BQL	5.0
2-Chlorophenol	BQL	BQL	BQL	BQL	5.0
2,4-Dichlorophenol	BQL	BQL	BQL	BQL	5.0
2,4-Dimethylphenol	BQL	BQL	BQL	BQL	5.0
2,4-Dinitrophenol	BQL	BQL	BQL	BQL	5.0
2-Methyl-4,6-dinitrophenol	BQL	BQL	BQL	BQL	5.0
2-Nitrophenol	BQL	BQL	BQL	BQL	5.0
4-Nitrophenol	BQL	BQL	BQL	BQL	5.0
Pentachlorophenol	BQL	BQL	BQL	BQL	5.0
Phenol	BQL	BQL	BQL	BQL	5.0
2,4,6-Trichlorophenol	BQL	BQL	BQL	BQL	
Date Extracted	3/07/08				
Date Analyzed	3/12/08				

Comments:

BQL = Below Quantitation Limit.

Reviewed by Jim Price Alma Brown

ENVIRONMENT 1, INC.

LAB ID#10

WELL SAMPLING FIELD LOG

Client WEYER NEW BERN ID# 146 Sample Date JULY 10 08

Total Hours 3.5 Site Contact _____ Analyst(s) _____

Location	Static Water Level	Well Depth	Feet of Water	Gallons in Well	Gallons Purged	# of Bails	Temp C	Cond. uMhos	pH Units	pH Time	Collect Time	Odor	Appear.
F1	6.37	13.81	7.44	1.2	3.6	15	23	122	5.2	0950	0950		
F2	4.37	13.81	9.44	1.5	4.5	18	20	110	6.0	0930	0930		
F3	9.32	13.76	4.44	.7	2.1	9	20	78	5.0	1005	1005		
F4	5.16	15.04	9.88	1.5	4.5	18	21	408	6.5	1020	1020		

vironment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 07/10/08
DATE REPORTED : 08/19/08

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.2	6.0	5.0	6.5	07/10/08	RJH	SM4500HB
COD, mg/l	18	54	15	35	07/21/08	TRB	HACH8000
Ammonia Nitrogen, mg/l	0.05	<0.04	<0.04	1.25	07/15/08	TWA	EPA350.1
Nitrate Nitrogen, mg/l	0.12	0.07	0.99	<0.04	07/11/08	TWA	EPA353.2
Phenol, ug/l	<2	<2	<2	<2	07/13/08	SEJ	SM510A&B
Total Organic Carbon, mg/l	2.38		4.20		07/10/08	SEJ	SM5310C
Total Organic Carbon, mg/l		20.85		13.47	07/16/08	SEJ	SM5310C
Total Dissolved Residue, mg/l	86	77	46	197	07/15/08	TRB	SM2540C
Sulfate, mg/l	24.5	<5.0	14.4	27.2	07/14/08	TRB	SM4500-SO4E
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	07/14/08	CMF	SM3113B
Copper, ug/l	< 10	< 10	< 10	< 10	07/15/08	LFJ	EPA200.7
Total Chromium, ug/l	<5.0	<5.0	<5.0	<5.0	07/14/08	LFJ	EPA200.7
Nickel, ug/l	< 10	< 10	< 10	< 10	07/14/08	LFJ	EPA200.7
Zinc, ug/l	< 10	< 10	< 10	15	07/14/08	ADD	SM3111B
Static Water Level, feet	6.37	4.37	9.32	5.16	07/10/08	RJH	

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ANALYTICAL & CONSULTING CHEMISTS

Environmental Chemists, Inc.

6602 Windmill Way • Wilmington, NC 28405
(910) 392-0223 (Lab) • (910) 392-4424 (Fax)

710 Bowsertown Road • Manteo, NC 27954
(252) 473-5702

NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Customer:

ENVIRONMENT - 1
Post Office Box 7085
Greenville, NC 27858
Attn: DeeDee Woodard

Date of Report: July 31, 2008

Purchase Order #:

Report Number: 8-6515

REPORT OF ANALYSIS

Date Sampled: 07/10/08

Sampled By: Client

Report To: DeeDee Woodard

Project:

LANDFILL WELLS:

METHOD 604 Analyte µg/L	Landfill Well # 1 # 15021	Landfill Well # 2 # 15022	Landfill Well # 3 # 15023	Landfill Well # 4 # 15024	*Quantitation Limit µg/L*
4-Chloro-3-methylphenol	BQL	BQL	BQL	BQL	5.0
2-Chlorophenol	BQL	BQL	BQL	BQL	5.0
2,4-Dichlorophenol	BQL	BQL	BQL	BQL	5.0
2,4-Dimethylphenol	BQL	BQL	BQL	BQL	5.0
2,4-Dinitrophenol	BQL	BQL	BQL	BQL	5.0
2-Methyl-4,6-dinitrophenol	BQL	BQL	BQL	BQL	5.0
2-Nitrophenol	BQL	BQL	BQL	BQL	5.0
4-Nitrophenol	BQL	BQL	BQL	BQL	5.0
Pentachlorophenol	BQL	BQL	BQL	BQL	5.0
Phenol	BQL	BQL	BQL	BQL	5.0
2,4,6-Trichlorophenol	BQL	BQL	BQL	BQL	5.0
Date Extracted	07/17/08				
Date Analyzed	07/24/08				

Comments:

BQL = Below Quantitation Limit.

Reviewed by Jim Pierce Alma Bra

ironment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 11/12/08
DATE REPORTED : 12/16/08

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.2	5.9	4.9	6.4	11/12/08	RJH	SM4500HB
COD, mg/l	<10	70	<10	26	11/19/08	TRB	HACH8000
Ammonia Nitrogen, mg/l	<0.04	0.06	0.06	1.27	11/13/08	ANO	EPA350.1
Nitrate Nitrogen, mg/l	0.38	0.07	<0.04	<0.04	11/14/08	ANO	EPA353.2
Phenol, ug/l	<2	<2	<2	<2	11/16/08	SEJ	SM510A&B
otal Organic Carbon, mg/l	2.30		<1.00		11/13/08	SEJ	SM5310C
Total Organic Carbon, mg/l		31.30		13.78	11/18/08	SEJ	SM5310C
Total Dissolved Residue, mg/l	65	131	44	301	11/13/08	TRB	SM2540C
Sulfate, mg/l	32.8	5.0	5.3	36.6	11/18/08	TRB	SM4500-SO4E
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	11/14/08	CMF	SM3113B
Copper, ug/l	< 10	< 10	< 10	< 10	11/21/08	LFJ	EPA200.7
Total Chromium, ug/l	<5.0	<5.0	<5.0		11/22/08	LFJ	EPA200.7
Total Chromium, ug/l				<5.0	11/26/08	LFJ	EPA200.7
Nickel, ug/l	< 10	< 10	< 10	< 10	11/22/08	LFJ	EPA200.7
Zinc, ug/l	< 10	< 10	< 10	< 10	11/18/08	ADD	SM3111B
Static Water Level, feet	6.18	3.93	9.28	5.66	11/12/08	RJH	

ironment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 146

ANALYST: MRJ
DATE COLLECTED: 11/12/08
DATE REPORTED: 12/16/08

Page: 1

REVIEWED BY:

VOLATILE ORGANICS
STANDARD METHODS 6230D

PARAMETERS, ug/l — Date Analyzed:	11/17/08 Landfill Well #1	11/18/08 Landfill Well #2	11/18/08 Landfill Well #3	11/18/08 Landfill Well #4
1. Benzene	<0.50	<0.50	<0.50	<0.50
2. Bromobenzene	<0.50	<0.50	<0.50	<0.50
3. Bromochloromethane	<0.50	<0.50	<0.50	<0.50
4. Bromodichloromethane	<0.50	<0.50	<0.50	<0.50
5. Bromoform	<0.50	<0.50	<0.50	<0.50
6. Bromomethane	<0.50	<0.50	<0.50	<0.50
7. N-Butylbenzene	<0.50	<0.50	<0.50	<0.50
8. Sec-Butylbenzene	<0.50	<0.50	<0.50	<0.50
9. Tert-Butylbenzene	<0.50	<0.50	<0.50	<0.50
10. Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50
11. Chlorobenzene	<0.50	<0.50	<0.50	<0.50
12. Chloroethane	<0.50	<0.50	<0.50	<0.50
13. Chloroform	<0.50	<0.50	<0.50	<0.50
14. Chloromethane	<0.50	<0.50	<0.50	<0.50
15. 2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50
16. 4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50
17. Dibromochloromethane	<0.50	<0.50	<0.50	<0.50
18. 1,2-Dibromo-3-Chloropropane	<0.50	<0.50	<0.50	<0.50
19. 1,2-Dibromoethane	<0.50	<0.50	<0.50	<0.50
20. Dibromomethane	<0.50	<0.50	<0.50	<0.50
21. 1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50
22. 1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50
23. 1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50
24. Dichlorodifluoromethane	<0.50	<0.50	<0.50	<0.50
25. 1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50
26. 1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50
27. 1,1-Dichloroethene	<0.50	<0.50	<0.50	<0.50
28. Cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50
29. trans-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50
30. 1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50
31. 1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50
32. 2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50
33. 1,1-Dichloropropene	<0.50	<0.50	<0.50	<0.50
34. Cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50
35. trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50
36. Ethylbenzene	<0.50	<0.50	<0.50	<0.50
37. Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50
38. Isopropylbenzene	<0.50	<0.50	<0.50	<0.50
39. 4-Isopropyltoluene	<0.50	<0.50	<0.50	<0.50
40. Methylene Chloride	<0.50	<0.50	<0.50	<0.50
41. Naphthalene	<0.50	<0.50	<0.50	<0.50
42. Propylbenzene	<0.50	<0.50	<0.50	<0.50
43. Styrene	<0.50	<0.50	<0.50	<0.50
44. 1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50
45. 1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50
46. Tetrachloroethene	<0.50	<0.50	<0.50	<0.50
47. Toluene	<0.50	<0.50	<0.50	<0.50

ironment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. DAVE GARDNER
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 146

ANALYST: MRJ
DATE COLLECTED: 11/12/08
DATE REPORTED: 12/16/08

REVIEWED BY: _____

VOLATILE ORGANICS
STANDARD METHODS 6230D

PARAMETERS, ug/l — Date Analyzed:	11/17/08 Landfill Well #1	11/18/08 Landfill Well #2	11/18/08 Landfill Well #3	11/18/08 Landfill Well #4
48. 1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50
49. 1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50
50. 1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50
51. 1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50
52. Trichloroethene	<0.50	<0.50	<0.50	<0.50
53. Trichlorofluoromethane	<0.50	<0.50	<0.50	<0.50
54. 1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50
55. 1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50
56. 1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50
57. Vinyl Chloride	<0.50	<0.50	<0.50	<0.50
58. Total Xylenes	<1.00	<1.00	<1.00	<1.00
59. Methyl Tert Butyl Ether	<1.00	<1.00	<1.00	<1.00

envirochem (SM)
ANALYTICAL & CONSULTING CHEMISTS

Environmental Chemists, Inc.

6602 Windmill Way • Wilmington, NC 28405
(910) 392-0223 (Lab) • (910) 392-4424 (Fax)
710 Bowsertown Road • Manteo, NC 27954
(252) 473-5702

NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Customer:

ENVIRONMENT - 1
Post Office Box 7085
Greenville, NC 27858
Attn: DeeDee Woodard

Date of Report: November 25, 2008

Purchase Order #:

Report Number: 8-10685

REPORT OF ANALYSIS

Report To: DeeDee Woodard

Date Sampled: 11/12/08

Project:

Sampled By: Client

WELLS:

METHOD 604 Analyte µg/L	Well # 1 # 25436	Well # 2 # 25437	Well # 3 # 25438	Well # 4 # 25439	Quantitation Limit µg/L
4-Chloro-3-methylphenol	BQL	BQL	BQL	BQL	5.0
2-Chlorophenol	BQL	BQL	BQL	BQL	5.0
2,4-Dichlorophenol	BQL	BQL	BQL	BQL	5.0
2,4-Dimethylphenol	BQL	BQL	BQL	BQL	5.0
2,4-Dinitrophenol	BQL	BQL	BQL	BQL	5.0
2-Methyl-4,6-dinitrophenol	BQL	BQL	BQL	BQL	5.0
2-Nitrophenol	BQL	BQL	BQL	BQL	5.0
4-Nitrophenol	BQL	BQL	BQL	BQL	5.0
Pentachlorophenol	BQL	BQL	BQL	BQL	5.0
Phenol	BQL	BQL	BQL	BQL	5.0
2,4,6-Trichlorophenol	BQL	BQL	BQL	BQL	5.0
Date Extracted	11/17/08			11/17/08	
Date Analyzed	11/19/08			11/17/08	

Comments:

BQL = Below Quantitation Limit.

Reviewed by Jim Pierce / Ray [illegible]

ENVIRONMENT 1, INC.

LAB ID#10

3/11/09

WELL SAMPLING FIELD LOG

Client NEW BEDF ID# 16 Sample Date March 11 09

Total Hours 3.5 Site Contact 2402 Analyst(s)

Location	Static Water Level	Well Depth	Feet of Water	Gallons in Well	Gallons Purged	# of Bails	Temp C	Cond. uMhos	pH Units	pH Time	Collect Time	Odor	Appear.
LF1	6.03	13.81	7.78	1.2	3.6	15	16	44	4.6	0915	0915		
LF2	3.51	13.81	10.30	1.6	4.8	20	13	127	5.9	0855	0855		
LF3	9.03	13.76	4.73	.7	2.1	9	16	81	4.5	0930	0930		
LF4	5.42	15.04	9.62	1.5	4.5	18	15	445	6.6	0950	0950		

COLOR: E = EARTHY, M = METHANE, P = PETROLEUM, N = NONE APPEARANCE: C = CLEAR, T = TURBID, S = SILTY

Environment 1, Incorporated

Drinking Water ID: 37112
Wastewater ID: 18

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. STEVE DIPIERO
WEYERHAEUSER COMPANY
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 03/11/09
DATE REPORTED : 04/13/09

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	4.6	5.9	4.5	6.6	03/11/09	RJH	SM4500HB
COD, mg/l	<10		19		03/14/09	TRB	HACH8000
COD, mg/l		159		27	03/15/09	TRB	HACH8000
Ammonia Nitrogen as N, mg/l	0.05	0.10	0.06	1.10	03/12/09	TWA	EPA350.1
Nitrate Nitrogen as N, mg/l	0.18	<0.04	<0.04	<0.04	03/13/09	ANO	EPA353.2
Phenol, ug/l	<2	<2	<2	<2	03/16/09	SEJ	SM510A&B
Total Organic Carbon, mg/l	1.38	57.36	<1.00	20.24	03/11/09	SEJ	SM5310C
Total Dissolved Residue, mg/l	46	113	44	232	03/14/09	TRB	SM2540C
Sulfate, mg/l	20.9	8.5	<5.0	25.2	03/16/09	TRB	SM4500-SO4E
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	03/17/09	CMF	SM3113B
Copper, ug/l	< 10	< 10	< 10	< 10	03/13/09	LFJ	EPA200.7
Total Chromium, ug/l	<5.0	<5.0	<5.0	<5.0	03/13/09	LFJ	EPA200.7
Nickel, ug/l	< 10	< 10	< 10	< 10	03/13/09	LFJ	EPA200.7
Zinc, ug/l	< 10	< 10	< 10	< 10	03/19/09	ADD	SM3111B
Static Water Level, feet	6.03	3.51	9.03	5.42	03/11/09	RJH	

envirochem SM
ANALYTICAL & CONSULTING CHEMISTS

Environmental Chemists, Inc.

6602 Windmill Way • Wilmington, NC 28405
(910) 392-0223 (Lab) • (910) 392-4424 (Fax)
710 Bowsertown Road • Manteo, NC 27954
(252) 473-5702
NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Customer:

ENVIRONMENT - 1
Post Office Box 7085
Greenville, NC 27858
Attn: DeeDee Woodard

Date of Report: April 6, 2009

Purchase Order #:

Report Number: 9-2257

REPORT OF ANALYSIS

Date Sampled: 03/11/09

Sampled By: Client

Report To: DeeDee Woodard

Project:

WELLS:

04 Compounds by 625 Analyte µg/L	Well # 1 # 6117	Well # 2 # 6118	Well # 3 # 6119	Well # 4 # 6120	*Quantitation Limit µg/L*
4-Chloro-3-methylphenol	BQL	BQL	BQL	BQL	5.0
2-Chlorophenol	BQL	BQL	BQL	BQL	5.0
2,4-Dichlorophenol	BQL	BQL	BQL	BQL	5.0
2,4-Dimethylphenol	BQL	BQL	BQL	BQL	5.0
2,4-Dinitrophenol	BQL	BQL	BQL	BQL	5.0
2-Methyl-4,6-dinitrophenol	BQL	BQL	BQL	BQL	5.0
2-Nitrophenol	BQL	BQL	BQL	BQL	5.0
4-Nitrophenol	BQL	BQL	BQL	BQL	5.0
Pentachlorophenol	BQL	BQL	BQL	BQL	5.0
Phenol	BQL	BQL	BQL	BQL	5.0
2,4,6-Trichlorophenol	BQL	BQL	BQL	BQL	5.0
Date Extracted	03/13/09				
Date Analyzed	03/19/09				

Comments:

BQL = Below Quantitation Limit.

Reviewed by Jim Pierce / Barbara Tifield

ENVIRONMENT 1, INC.

LAB ID#10

WELL SAMPLING FIELD LOG

Client WEYER NEW BERN ID# 146 Sample Date July 23 09

Total Hours 3.5 Site Contact STEVE 514-1011 Analyst(s)

Location	Static Water Level	Well Depth	Feet of Water	Gallons in Well	Gallons Purged	# of Bails	Temp C	Cond. uMhos	pH Units	pH Time	Collect Time	Odor	Appear.
LF 1	6.52	13.81	7.29	1.2	3.6	15	22	152	5.01	1045	1045		
LF2	5.00	13.81	8.81	1.3	3.9	16	19	124	5.6	1105	1105		
LF3	9.60	13.76	4.16	.7	2.1	9	20	40	4.5	1030	1030		
LF4	5.98	15.04	9.06	1.5	4.5	18	18	686	6.4	1010	1010		

COLOR: E = EARTHY M = METHANE P = PETROLEUM N= NONE APPEARANCE: C = CLEAR T = TURBID S = SILTY

nvironment 1, Incorporated

Drinking Water ID: 37719
Wastewater ID: 10

P BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO ,NC 28586

DATE COLLECTED: 07/23/09
DATE REPORTED : 08/25/09

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.0	5.6	4.5	6.4	07/23/09	RJH	SM4500HB
COD, mg/l	17	86	15	39	07/27/09	TRB	HACH8000
Ammonia Nitrogen as N, mg/l	0.19	0.54	0.17	1.80	07/28/09	ANO	EPA350.1
Nitrate Nitrogen as N, mg/l	0.66	0.32	0.43	0.11	07/24/09	TWA	EPA353.2
Phenol, ug/l	<2	<2	<2	<2	07/24/09	SEJ	SM510A&B
l Organic Carbon, mg/l	1.78	41.48	<1.00	17.66	07/29/09	SEJ	SM5310C
l Dissolved Residue, mg/l	87	113	43	395	07/27/09	TRB	SM2540C
Sulfate, mg/l	36.4	10.3	10.5	123.5	07/28/09	TRB	SM4500-SO4E
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	07/28/09	CMF	SM3113B
Copper, ug/l	< 10	< 10	< 10	< 10	07/24/09	LFJ	EPA200.7
Total Chromium, ug/l	<5.0	<5.0	<5.0	<5.0	07/24/09	LFJ	EPA200.7
Nickel, ug/l	< 10	< 10	< 10	< 10	07/24/09	LFJ	EPA200.7
Zinc, ug/l	< 10	< 10	< 10	< 10	07/27/09	ADD	SM3111B
Static Water Level, feet	6.52	5.00	9.60	5.98	07/23/09	RJH	

envirochem SM

ANALYTICAL & CONSULTING CHEMISTS

Environmental Chemists, Inc.

6602 Windmill Way • Wilmington, NC 28405
(910) 392-0223 (Lab) • (910) 392-4424 (Fax)

710 Bowsertown Road • Manteo, NC 27954
(252) 473-5702

NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Customer:

ENVIRONMENT - 1
Post Office Box 7085
Greenville, NC 27858
Attn: DeeDee Woodard

Date of Report: August 13, 2009

Purchase Order #:

Report Number: 9-6793

REPORT OF ANALYSIS

Date Sampled: 07/23/09

Sampled By: Client

Report To: DeeDee Woodard

Project:

WELLS:

604 Compounds by 625 Analyte µg/L	Well # 1 # 17361	Well # 2 # 17362	Well # 3 # 17363	Well # 4 # 17364	*Quantitation Limit µg/L*
4-Chloro-3-methylphenol	< 5.0	< 5.0	< 5.0	< 5.0	5.0
2-Chlorophenol	< 5.0	< 5.0	< 5.0	< 5.0	5.0
2,4-Dichlorophenol	< 5.0	< 5.0	< 5.0	< 5.0	5.0
2,4-Dimethylphenol	< 5.0	< 5.0	< 5.0	< 5.0	5.0
2,4-Dinitrophenol	< 5.0	< 5.0	< 5.0	< 5.0	5.0
2-Methyl-4,6-dinitrophenol	< 5.0	< 5.0	< 5.0	< 5.0	5.0
2-Nitrophenol	< 5.0	< 5.0	< 5.0	< 5.0	5.0
4-Nitrophenol	< 5.0	< 5.0	< 5.0	< 5.0	5.0
Pentachlorophenol	< 5.0	< 5.0	< 5.0	< 5.0	5.0
Phenol	< 5.0	< 5.0	< 5.0	< 5.0	5.0
2,4,6-Trichlorophenol	< 5.0	< 5.0	< 5.0	< 5.0	5.0
Date Extracted	07/27/09				
Date Analyzed	08/08/09				

Comments:

BQL = Below Quantitation Limit.

Reviewed by Jim Pierce, Jennifer Brown

Environment 1, Incorporated

Drinking Water ID: 37719
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

RECEIVED

DEC 01 2009

ID#: 146

Initial: _____

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO ,NC 28586

DATE COLLECTED: 11/04/09
DATE REPORTED : 11/30/09

REVIEWED BY: _____

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	4.9	5.5	4.4	6.5	11/04/09	RJH	SM4500HB
COD, mg/l	12	41	14	33	11/06/09	TRB	HACH8000
Ammonia Nitrogen as N, mg/l	<0.04	0.25	<0.04	1.38	11/05/09	TWA	EPA350.1
Nitrate Nitrogen as N, mg/l	0.38	0.06	0.07	<0.04	11/06/09	TWA	EPA353.2
Phenol, ug/l	<2	<2	<2	<2	11/05/09	SEJ	SM510A&B
Total Organic Carbon, mg/l	<1.00	21.44	1.59	16.76	11/05/09	SEJ	SM5310C
Total Dissolved Residue, mg/l	42	110	66	323	11/09/09	TRB	SM2540C
Sulfate, mg/l	10.1	10.6	31.8	63.2	11/10/09	TRB	SM426C
Cadmium, ug/l	<1.0	1	<1.0	<1.0	11/17/09	CMF	SM3113B
Copper, ug/l	< 10	< 10	< 10	< 10	11/06/09	LFJ	EPA200.7
Total Chromium, ug/l	<5.0	<5.0	<5.0	<5.0	11/06/09	LFJ	EPA200.7
Nickel, ug/l	< 10	< 10	< 10	< 10	11/10/09	LFJ	EPA200.7
Zinc, ug/l	< 10	< 10	< 10	< 10	11/17/09	ADD	SM3111B
Static Water Level, feet	6.47	5.28	9.24	5.84	11/04/09	RJH	

Environment 1, Incorporated

PHONE (252) 756-6208
FAX (252) 756-0633

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

ID#: 146 A

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO ,NC 28586

DATE COLLECTED: 11/04/09
DATE REPORTED : 12/07/09

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
Conductivity (at 25c), uMhos	136	147	40	576	11/04/09	RJH	SM2510B
Temperature, °C	20	18	20	20	11/04/09	RJH	SM2550B
Water Bailed, Gals.	3.6	3.6	2.1	4.5	11/04/09	RJH	

Environment 1, Incorporated

Drinking Water ID: 37711
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO, NC 28586

CLIENT ID: 146

ANALYST: MRJ
DATE COLLECTED: 11/04/09
DATE ANALYZED: 11/14/09
DATE REPORTED: 11/30/09

Page: 1

REVIEWED BY:

VOLATILE ORGANICS
STANDARD METHODS 6230D

PARAMETERS, ug/l	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4
1. Benzene	<0.50	<0.50	<0.50	<0.50
2. Bromobenzene	<0.50	<0.50	<0.50	<0.50
3. Bromochloromethane	<0.50	<0.50	<0.50	<0.50
4. Bromodichloromethane	<0.50	<0.50	<0.50	<0.50
5. Bromoform	<0.50	<0.50	<0.50	<0.50
6. Bromomethane	<0.50	<0.50	<0.50	<0.50
7. N-Butylbenzene	<0.50	<0.50	<0.50	<0.50
8. Sec-Butylbenzene	<0.50	<0.50	<0.50	<0.50
9. Tert-Butylbenzene	<0.50	<0.50	<0.50	<0.50
10. Carbon Tetrachloride	<0.50	<0.50	<0.50	<0.50
11. Chlorobenzene	<0.50	<0.50	<0.50	<0.50
12. Chloroethane	<0.50	<0.50	<0.50	<0.50
13. Chloroform	<0.50	<0.50	<0.50	<0.50
14. Chloromethane	<0.50	<0.50	<0.50	<0.50
15. 2-Chlorotoluene	<0.50	<0.50	<0.50	<0.50
16. 4-Chlorotoluene	<0.50	<0.50	<0.50	<0.50
17. Dibromochloromethane	<0.50	<0.50	<0.50	<0.50
18. 1,2-Dibromo-3-Chloropropane	<0.50	<0.50	<0.50	<0.50
19. 1,2-Dibromoethane	<0.50	<0.50	<0.50	<0.50
20. Dibromomethane	<0.50	<0.50	<0.50	<0.50
21. 1,2-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50
22. 1,3-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50
23. 1,4-Dichlorobenzene	<0.50	<0.50	<0.50	<0.50
24. Dichlorodifluoromethane	<0.50	<0.50	<0.50	<0.50
25. 1,1-Dichloroethane	<0.50	<0.50	<0.50	<0.50
26. 1,2-Dichloroethane	<0.50	<0.50	<0.50	<0.50
27. 1,1-Dichloroethene	<0.50	<0.50	<0.50	<0.50
28. Cis-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50
29. trans-1,2-Dichloroethene	<0.50	<0.50	<0.50	<0.50
30. 1,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50
31. 1,3-Dichloropropane	<0.50	<0.50	<0.50	<0.50
32. 2,2-Dichloropropane	<0.50	<0.50	<0.50	<0.50
33. 1,1-Dichloropropene	<0.50	<0.50	<0.50	<0.50
34. Cis-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50
35. trans-1,3-Dichloropropene	<0.50	<0.50	<0.50	<0.50
36. Ethylbenzene	<0.50	<0.50	<0.50	<0.50
37. Hexachlorobutadiene	<0.50	<0.50	<0.50	<0.50
38. Isopropylbenzene	<0.50	<0.50	<0.50	<0.50
39. 4-Isopropyltoluene	<0.50	<0.50	<0.50	<0.50
40. Methylene Chloride	<0.50	<0.50	<0.50	<0.50
41. Naphthalene	<0.50	<0.50	<0.50	<0.50
42. Propylbenzene	<0.50	<0.50	<0.50	<0.50
43. Styrene	<0.50	<0.50	<0.50	<0.50
44. 1,1,1,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50
45. 1,1,2,2-Tetrachloroethane	<0.50	<0.50	<0.50	<0.50
46. Tetrachloroethene	<0.50	<0.50	<0.50	<0.50
47. Toluene	<0.50	<0.50	<0.50	<0.50
48. 1,2,3-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO, NC 28586

CLIENT ID: 146

ANALYST: MRJ
DATE COLLECTED: 11/04/09
DATE ANALYZED: 11/14/09
DATE REPORTED: 11/30/09

REVIEWED BY: _____

VOLATILE ORGANICS
STANDARD METHODS 6230D

PARAMETERS, ug/l	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4
49. 1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50
50. 1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50
51. 1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50
52. Trichloroethene	<0.50	<0.50	<0.50	<0.50
53. Trichlorofluoromethane	<0.50	<0.50	<0.50	<0.50
54. 1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50
55. 1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50
56. 1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50
57. Vinyl Chloride	<0.50	<0.50	<0.50	<0.50
58. Total Xylenes	<1.00	<1.00	<1.00	<1.00
59. Methyl Tert Butyl Ether	<1.00	<1.00	<1.00	<1.00

Environmental Chemists, Inc.

6602 Windmill Way • Wilmington, NC 28405
(910) 392-0223 (Lab) • (910) 392-4424 (Fax)

710 Bowsertown Road • Manteo, NC 27954
(252) 473-5702

ANALYTICAL & CONSULTING CHEMISTS

NCDENR: DWQ CERTIFICATE #94. DLS CERTIFICATE #37729

Customer:

ENVIRONMENT - 1
Post Office Box 7085
Greenville, NC 27858
Attn: DeeDee Woolard

Date of Report: November 25, 2009

Purchase Order #:

Report Number: 9-10561

REPORT OF ANALYSIS

Date Sampled: 11/04/09

Sampled By: Client

Report To: DeeDee Woolard

Project: Weyerhaeuser, New Bern (N. Landfill)

WELLS:

604 Compounds by 625 Analyte µg/L	Well # 1 # 26505	Well # 1 # 26505 Dup	Well # 2 # 26506	Well # 2 # 26506 Dup	Well # 3 # 26507	Well # 3 # 26507 Dup	Well # 4 # 26508	Well # 4 #26508 Dup
4-Chloro-3-methylphenol	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Chlorophenol	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,4-Dichlorophenol	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,4-Dimethylphenol	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,4-Dinitrophenol	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Methyl-4,6-dinitrophenol	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2-Nitrophenol	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
4-Nitrophenol	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Pentachlorophenol	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Phenol	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
2,4,6-Trichlorophenol	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Date Extracted	11/06/09							
Date Analyzed	11/25/09							

Comments:

Reviewed by Jim Pierce, Barbara Infinito

RECEIVED

APR 07 2010

Drinking Water ID
Wastewater ID

Initial:

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO ,NC 28586

DATE COLLECTED: 03/08/10
DATE REPORTED : 04/05/10

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	4.7	5.9	4.5	6.5	03/08/10	RJH	SM4500HB
COD, mg/l	<10	43	<10	<10	03/11/10	TRB	HACH8000
Ammonia Nitrogen as N, mg/l	<0.04	0.07	<0.04	1.12	03/09/10	ANO	EPA350.1
Nitrate Nitrogen as N, mg/l	0.10	<0.04	<0.04	0.05	03/10/10	TWA	EPA353.2
Phenol, ug/l	<2	<2	<2	<2	03/11/10	SEJ	SM510A&B
Total Organic Carbon, mg/l	<1.00	24.92	<1.00	24.28	03/09/10	SEJ	SM5310C
Total Dissolved Residue, mg/l	49	106	42	401	03/10/10	TRB	SM2540C
Sulfate, mg/l	22.4	<5.0	6.5	102.2	03/13/10	TRB	SM426C
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	03/19/10	CMF	SM3113B
Copper, ug/l	< 10	< 10	< 10	< 10	03/11/10	LFJ	EPA200.7
Total Chromium, ug/l	<5.0	<5.0	<5.0	<5.0	03/11/10	LFJ	EPA200.7
Nickel, ug/l	< 10	< 10	< 10	< 10	03/11/10	LFJ	EPA200.7
Zinc, ug/l	< 10	< 10	< 10	< 10	03/15/10	ADD	SM3111B
Conductivity (at 25c), uMhos	62	138	29	615	03/08/10	RJH	SM2510B
Temperature, °C	13	11	13	12	03/08/10	RJH	SM2550B
Static Water Level, feet	5.68	3.68	8.50	4.99	03/08/10	RJH	
Water Bailed, Gals.	3.9	4.8	2.4	4.8	03/08/10	RJH	

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 146

WEYERHAEUSER, NEW BERN (N.LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO ,NC 28586

DATE COLLECTED: 07/28/10
DATE REPORTED : 08/25/10

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.1	5.7	5.0	6.4	07/28/10	RJH	SM4500HB
COD, mg/l	20	72	17	44	07/29/10	TRB	HACH8000
Ammonia Nitrogen as N, mg/l	0.15	0.29	0.13	1.50	07/29/10	TWA	EPA350.1
Nitrate Nitrogen as N, mg/l	1.03	0.08	0.26	<0.04	07/30/10	TWA	EPA353.2
Phenol, ug/l	<2	<2	<2	<2	08/03/10	SEJ	SM510A&B
Organic Carbon, mg/l	1.80	26.64	<1.00	15.04	07/28/10	SEJ	SM5310C
Dissolved Residue, mg/l	81	124	17	380	07/30/10	MJN	SM2540C
Sulfate, mg/l	34.1	6.9	6.3	382.3	08/02/10	TRB	SM426C
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	07/30/10	CMF	SM3113B
Copper, ug/l	<10	<10	<10	<10	08/02/10	LFJ	EPA200.7
Total Chromium, ug/l	<5.0	<5.0	<5.0	5	08/02/10	LFJ	EPA200.7
Nickel, ug/l	<10	<10	<10		08/02/10	LFJ	EPA200.7
Nickel, ug/l				<10	07/30/10	LFJ	SM3111B
Zinc, ug/l	<10	<10	11	<10	07/30/10	ADD	SM3111B
Conductivity (at 25c), uMhos	117	100	29	578	07/28/10	RJH	SM2510B
Temperature, °C	35	21	22	22	07/28/10	RJH	SM2550B
Static Water Level, feet	6.62	5.12	9.67	6.02	07/28/10	RJH	
Water Bailed, Gals.	3.6	3.9	2.1	4.5	07/28/10	RJH	

wrong!

Environment 1, Incorporated

Drinking Water ID: 37716
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 146

WEYERHAEUSER, NEW BERN (RSDS)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO ,NC 28586

DATE COLLECTED: 11/22/10
DATE REPORTED : 12/17/10

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.2	6.2	4.8	6.5	11/22/10	RJH	SM4500HB
COD, mg/l	19	66	15	38	11/24/10	TRB	HACH8000
Ammonia Nitrogen as N, mg/l	0.22	0.06	0.09	1.00	11/23/10	ANO	EPA350.1
Nitrate Nitrogen as N, mg/l	0.14	0.11	0.08	0.10	11/24/10	ANO	EPA353.2
Phenol, ug/l	<2	<2	<2	<2	11/22/10	SEJ	SM510A&B
Organic Carbon, mg/l	<1.00	30.48	<1.00	14.84	11/23/10	SEJ	SM5310C
Dissolved Residue, mg/l	53	124	23	389	11/23/10	MEL	SM2540C
Sulfate, mg/l	18.5	<5.0	5.9	117.5	11/30/10	TRB	SM426C
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	11/24/10	CMF	SM3113B
Copper, ug/l	<10	<10	<10	<10	11/24/10	LFJ	EPA200.7
Total Chromium, ug/l	<5.0	<5.0	<5.0	<5.0	11/24/10	LFJ	EPA200.7
Nickel, ug/l	<10	<10	<10		11/24/10	LFJ	EPA200.7
Nickel, ug/l				<10	11/26/10	LFJ	SM3111B
Zinc, ug/l	<10	<10	<10	<10	11/26/10	ADD	SM3111B
Conductivity (at 25c), uMhos	69	125	27	649	11/22/10	RJH	SM2510B
Temperature, °C	19	16	20	19	11/22/10	RJH	SM2550B
Static Water Level, feet	5.98	3.89	9.10	5.55	11/22/10	RJH	
Water Bailed, Gals.	3.6	4.5	2.1	4.5	11/22/10	RJH	

Data added 3/7/2011
11162 records total

Environment 1, Incorporated

Drinking Water ID: 37718
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (RSDS)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO, NC 28586

CLIENT ID: 146

ANALYST: MRJ
DATE COLLECTED: 11/22/10
DATE ANALYZED: 12/03/10
DATE REPORTED: 12/17/10

REVIEWED BY:

VOLATILE ORGANICS
STANDARD METHODS 6230D

PARAMETERS, ug/l	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4
49. 1,2,4-Trichlorobenzene	<0.50	<0.50	<0.50	<0.50
50. 1,1,1-Trichloroethane	<0.50	<0.50	<0.50	<0.50
51. 1,1,2-Trichloroethane	<0.50	<0.50	<0.50	<0.50
52. Trichloroethene	<0.50	<0.50	<0.50	<0.50
53. Trichlorofluoromethane	<0.50	<0.50	<0.50	<0.50
54. 1,2,3-Trichloropropane	<0.50	<0.50	<0.50	<0.50
55. 1,2,4-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50
56. 1,3,5-Trimethylbenzene	<0.50	<0.50	<0.50	<0.50
57. Vinyl Chloride	<0.50	<0.50	<0.50	<0.50
58. Total Xylenes	<1.00	<1.00	<1.00	<1.00
59. Methyl Tert Butyl Ether	<1.00	<1.00	<1.00	<1.00

236

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

PHONE (252) 756-6208
FAX (252) 756-0633

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

ID#: 211

WEYERHAEUSER, NEW BERN (RSDS)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO ,NC 28586

DATE COLLECTED: 11/23/10
DATE REPORTED : 12/17/10

RSDS Leachate

REVIEWED BY:

PARAMETERS	Leachate	Analysis Date	Analyst	Method Code
COD, mg/l	98	11/24/10	TRB	HACH8000
Ammonia Nitrogen as N, mg/l	<0.04	11/26/10	ANO	EPA350.1
Nitrate Nitrogen as N, mg/l	<0.04	11/24/10	ANO	EPA353.2
Phenol, ug/l	<2	11/29/10	SEJ	SM510A&B
Total Organic Carbon, mg/l	40.04	11/23/10	SEJ	SM5310C
Dissolved Residue, mg/l	977	11/24/10	MEL	SM2540C
ate, mg/l (Sulfate)	327.8	11/30/10	TRB	SM426C
Cadmium, ug/l	<1.0	12/03/10	CMF	SM3113B
Copper, ug/l	11	11/26/10	LFJ	EPA200.7
Total Chromium, ug/l	<5.0	11/26/10	LFJ	EPA200.7
Nickel, ug/l	<10	11/26/10	LFJ	EPA200.7
Zinc, ug/l	<10	11/26/10	ADD	SM3111B
Conductivity (at 25c), uMhos	1540	11/29/10	MPB	SM2510B

First RSDS leachate
Sample collected
Analysis same as GW wells
for Nov.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (RSDS)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO, NC 28586

CLIENT ID: 211

ANALYST: MRJ
DATE COLLECTED: 11/23/10
DATE ANALYZED: 12/03/10
DATE REPORTED: 12/17/10

REVIEWED BY:

VOLATILE ORGANICS
STANDARD METHODS 6230D

PARAMETERS, ug/l	Leachate
1. Benzene	<0.50
2. Bromobenzene	<0.50
3. Bromochloromethane	<0.50
4. Bromodichloromethane	<0.50
5. Bromoform	<0.50
6. Bromomethane	<0.50
7. N-Butylbenzene	<0.50
8. Sec-Butylbenzene	<0.50
9. Tert-Butylbenzene	<0.50
10. Carbon Tetrachloride	<0.50
11. Chlorobenzene	<0.50
12. Chloroethane	<0.50
13. Chloroform	<0.50
14. Chloromethane	<0.50
15. 2-Chlorotoluene	<0.50
16. 4-Chlorotoluene	<0.50
17. Dibromochloromethane	<0.50
18. 1,2-Dibromo-3-Chloropropane	<0.50
19. 1,2-Dibromoethane	<0.50
20. Dibromomethane	<0.50
21. 1,2-Dichlorobenzene	<0.50
22. 1,3-Dichlorobenzene	<0.50
23. 1,4-Dichlorobenzene	<0.50
24. Dichlorodifluoromethane	<0.50
25. 1,1-Dichloroethane	<0.50
26. 1,2-Dichloroethane	<0.50
27. 1,1-Dichloroethene	<0.50
28. Cis-1,2-Dichloroethene	<0.50
29. trans-1,2-Dichloroethene	<0.50
30. 1,2-Dichloropropane	<0.50
31. 1,3-Dichloropropane	<0.50
32. 2,2-Dichloropropane	<0.50
33. 1,1-Dichloropropene	<0.50
34. Cis-1,3-Dichloropropene	<0.50
35. trans-1,3-Dichloropropene	<0.50
36. Ethylbenzene	<0.50
37. Hexachlorobutadiene	<0.50
38. Isopropylbenzene	<0.50
39. 4-Isopropyltoluene	<0.50
40. Methylene Chloride	<0.50
41. Naphthalene	<0.50
42. Propylbenzene	<0.50
43. Styrene	<0.50
44. 1,1,1,2-Tetrachloroethane	<0.50
45. 1,1,2,2-Tetrachloroethane	<0.50
46. Tetrachloroethene	<0.50
47. Toluene	<0.50
48. 1,2,3-Trichlorobenzene	<0.50

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (RSDS)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO, NC 28586

CLIENT ID: 211

ANALYST: MRJ
DATE COLLECTED: 11/23/10
DATE ANALYZED: 12/03/10
DATE REPORTED: 12/17/10

REVIEWED BY: _____

VOLATILE ORGANICS
STANDARD METHODS 6230D

PARAMETERS, ug/l	Leachate
49. 1,2,4-Trichlorobenzene	<0.50
50. 1,1,1-Trichloroethane	<0.50
51. 1,1,2-Trichloroethane	<0.50
52. Trichloroethene	<0.50
53. Trichlorofluoromethane	<0.50
54. 1,2,3-Trichloropropane	<0.50
55. 1,2,4-Trimethylbenzene	<0.50
56. 1,3,5-Trimethylbenzene	<0.50
57. Vinyl Chloride	<0.50
58. Total Xylenes	<1.00
59. Methyl Tert Butyl Ether	<1.00

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (RSDS)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO, NC 28586

CLIENT ID: 211

ANALYST: CHS
DATE COLLECTED: 11/23/10
DATE ANALYZED: 12/06/10
DATE REPORTED: 12/17/10

REVIEWED BY:

604 PHENOLS COMPOUND LIST
BY EPA METHOD 625

PARAMETERS, ug/l	Leachate
1. 4-Chloro-3-Methylphenol	<5.00
2. 2-Chlorophenol	<5.00
3. 2,4-Dichlorophenol	<5.00
4. 2,4-Dimethylphenol	<5.00
5. 4,6-Dinitro-2-Methylphenol	<25.00
6. 2,4-Dinitrophenol	<25.00
7. 2-Nitrophenol	<25.00
8. 4-Nitrophenol	<25.00
9. Pentachlorophenol	<25.00
10. Phenol	<5.00
11. 2,4,6-Trichlorophenol	<5.00

CHAIN OF CUSTODY RECORD

1

nvironment
O. Box 7085 Oakmont Dr.
reenville, NC 8
hone (252) 756-6208 • Fax (252) 756-0633

CLIENT: 211 Week: 46

WEYERHAEUSER, NEW BERN (RSDS)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO NC 28586

(252) 633-7633

DISINFECTION
☐ CHLORINE
☐
☐
☐

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE AT COLLECTION	TEMPERA AT COLLE	# OF CONTAINERS	COD	Ammonia Nitro.	Nitrate	Phenol	TOC	TDS	Sulfate	Metals	Conductivity	604 Compounds	604 Duplicate	SM 6230D	6230D Dup. 1	6230D Dup. 3
						<2	<2	<2	<2			<2			<2	<2	<2	<2	<2
						P	P	P	G	P	P	P	P	P	G	G	G	G	G
						C	C	A	C	C	A	A	A	A	A	A	E	E	E
Leachate RSDS	11/23/10	10:00	0		14	■	■	■	■	■	■	■	■	■	■	■	■	■	■

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

PARAMETERS

A - NONE
B - HNO_3
C - H_2SO_4
D - NAOH
E - HCL
F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☒ DWQ/GW
☐ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print)

SAMPLES RECEIVED IN LAB AT 02 °C

Stephen DiP	11/23/10	10 45	RECEIVED	11/23/303 DATE/TIME
RELINQUISHED				DATE/TIME
RELINQUI				

Collection pH = 7.43
Collection Temp = 13° C

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

№ 215205

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 211

WEYERHAEUSER, NEW BERN (RSDS)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO ,NC 28586

DATE COLLECTED: 03/31/11
DATE REPORTED : 05/27/11

RSDS Leachate

REVIEWED BY:

PARAMETERS	Leachate	Analysis Date	Analyst	Method Code
COD, mg/l	233	04/06/11	TRB	HACH8000
Ammonia Nitrogen as N, mg/l	0.06	04/05/11	ANO	EPA350.1
Nitrate Nitrogen as N, mg/l	0.04	04/01/11	MPH	EPA353.2
Phenol, ug/l	<2	04/18/11	SEJ	SM510A&B
Total Organic Carbon, mg/l	50.70	04/05/11	SEJ	SM5310C
Total Dissolved Residue, mg/l	1060	04/06/11	MEL	SM2540C
Sulfate, mg/l	341.0	04/05/11	TRB	SM426C
Cadmium, ug/l	<1.0	04/01/11	CMF	SM3113B
Copper, ug/l	<10	04/05/11	LFJ	EPA200.7
Total Chromium, ug/l	<5.0	04/04/11	LFJ	EPA200.7
Nickel, ug/l	<10	04/04/11	LFJ	EPA200.7
Zinc, ug/l	<10	04/04/11	ADD	SM3111B
Conductivity (at 25c), uMhos	1540	04/01/11	MPB	SM2510B

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

PHONE (252) 756-6208
FAX (252) 756-0633

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

CLIENT: WEYERHAEUSER, NEW BERN (RSDS)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO, NC 28586

CLIENT ID: 211

ANALYST: CHS
DATE COLLECTED: 03/31/11
DATE ANALYZED: 04/27/11
DATE REPORTED: 05/27/11

REVIEWED BY:

604 PHENOLS COMPOUND LIST
BY EPA METHOD 625

PARAMETERS, ug/l	Leachate
1. 4-Chloro-3-Methylphenol	<5.00
2. 2-Chlorophenol	<5.00
3. 2,4-Dichlorophenol	<5.00
4. 2,4-Dimethylphenol	<5.00
5. 4,6-Dinitro-2-Methylphenol	<25.00
6. 2,4-Dinitrophenol	<25.00
7. 2-Nitrophenol	<25.00
8. 4-Nitrophenol	<25.00
9. Pentachlorophenol	<25.00
10. Phenol	<5.00
11. 2,4,6-Trichlorophenol	<5.00

Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

Page 1

CLIENT: 211 **Week:** 11

WEYERHAEUSER, NEW BERN (RSDS)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO NC 28586

(252) 633-7633

DISINFECTION: ☐ CHLORINE ☐ UV ☐ ☐

CHLORINE NF

pH CHECK

CONTAIN

CHEMICAL PRESERVATION

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE AT COLLECTION	# OF CONTAINERS	COD	Ammonia Nitro.	Nitrate	Phenol	TOC	TDS	Sulfate	Metals	Conductivity	604 Compounds	604 Duplicate
						<2	<2		<2	<2			<2			
						P	P	P	G	P	P	P	P	P	G	G
						C	C	A	C	C	A	A	A	A	A	A
Leachate RSDS	3/31/11	8 30 AM			11											

— All Grab Samples

PARAMETERS

A - NONE
B - HNO_3
C - H_2SO_4
D - NAOH
E - HCL
F - ZINC ACETAT
G - NA THIOSULF

CLASSIFICATION:
- [x] WASTEWATER (NPDES)
- [ ] DRINKING WATER
- [x] ~~DWC/GW~~
- [ ] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: Y N

SAMPLES COLLECTED BY: (Please Print)

SAMPLES RECEIVED IN LAB AT 1.2 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Stephen DiPiero	3/31/11 09:30	C. Well	3/31 2:33
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

FORM #5

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

RECEIVED

APR 04 2011

ID#: 146

Initial: _____

WEYERHAEUSER, NEW BERN (RSDS)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO ,NC 28586

DATE COLLECTED: 03/07/11
DATE REPORTED : 04/01/11

REVIEWED BY:

PARAMETERS	L-01 Landfill Well #1	L-02 Landfill Well #2	L-03 Landfill Well #3	L-04 Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.1	6.3	4.8	6.6	03/07/11	RJH	SM4500HB
COD, mg/l	14	58	14	38	03/15/11	TRB	HACH8000
Ammonia Nitrogen as N, mg/l	<0.04	0.06	<0.04	1.51	03/08/11	MPH	EPA350.1
Nitrate Nitrogen as N, mg/l	0.11	<0.04	<0.04	<0.04	03/09/11	ANO	EPA353.2
Phenol, ug/l	<2	<2	<2	<2	03/09/11	SEJ	SM510A&B
Total Organic Carbon, mg/l	1.17	25.32	<1.00	14.62	03/10/11	SEJ	SM5310C
Dissolved Residue, mg/l	272	123	42	366	03/08/11	MEL	SM2540C
Sulfate, mg/l	19.8	<5.0	5.9	104	03/14/11	TRB	SM426C
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	03/11/11	CMF	SM3113B
Copper, ug/l	<10	<10	<10	<10	03/11/11	LFJ	EPA200.7
Total Chromium, ug/l	<5.0	<5.0	<5.0	<5.0	03/11/11	LFJ	EPA200.7
Nickel, ug/l	<10	<10	<10	<10	03/11/11	LFJ	EPA200.7
Zinc, ug/l	<10	<10	<10	<10	03/17/11	LFJ	SM3111B
Conductivity (at 25c), uMhos	65	143	26	609	03/07/11	RJH	SM2510B
Temperature, °C	15	11	14	13	03/07/11	RJH	SM2550B
Static Water Level, feet	5.97	3.88	9.07	5.36	03/07/11	RJH	
Water Bailed, Gals.	3.6	4.5	2.1	4.5	03/07/11	RJH	

Environment 1, Incorporated

Drinking Water ID: 37718
Wastewater ID: 10

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (RSDS)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO, NC 28586

CLIENT ID: 146

ANALYST: CHS
DATE COLLECTED: 03/07/11
DATE ANALYZED: 03/15/11
DATE REPORTED: 04/01/11

REVIEWED BY:

604 PHENOLS COMPOUND LIST
BY EPA METHOD 625

PARAMETERS, ug/l	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4
1. 4-Chloro-3-Methylphenol	<5.00	<5.00	<5.00	<5.00
2. 2-Chlorophenol	<5.00	<5.00	<5.00	<5.00
3. 2,4-Dichlorophenol	<5.00	<5.00	<5.00	<5.00
4. 2,4-Dimethylphenol	<5.00	<5.00	<5.00	<5.00
5. 4,6-Dinitro-2-Methylphenol	<25.00	<25.00	<25.00	<25.00
6. 2,4-Dinitrophenol	<25.00	<25.00	<25.00	<25.00
7. 2-Nitrophenol	<25.00	<25.00	<25.00	<25.00
8. 4-Nitrophenol	<25.00	<25.00	<25.00	<25.00
9. Pentachlorophenol	<25.00	<25.00	<25.00	<25.00
10. Phenol	<5.00	<5.00	<5.00	<5.00
11. 2,4,6-Trichlorophenol	<5.00	<5.00	<5.00	<5.00

Environmen[illegible] Inc.
P.O. Box 70[illegible] Oakmont Dr.
Greenville, N[illegible]858
Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CU[illegible]ODY REC[illegible]

Page 1 of [illegible]

CLIENT: 146 **Week: 11**

WEYERHAEUSER, NEW BERN (RSDS)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO NC 28586

(252) 633-7633

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐

SAMPLE LOCATION	COLLECTED DATE	COLLECTED TIME	CONTAINER TYPE	PRESERVATIVE	Field pH	COD	Ammonia Nitro.	Nitrate	Phenol	TOC	TDS	Sulfate	3030C Metals	Conductivity	Temperature	Field Parameter	604 Compounds	604 Duplicate
						K2K2		K2K2					C2				C2 C2	
					P	P	P	P	G	P	P	P	P	P	P		G	G
					A	C	C	A	C	C	A	A	B	A	A		A	A
Landfill Well #1	03 02 11	0935	15	11	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Landfill Well #2	03 02 11	0920	11	11	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Landfill Well #3	03 02 11	0955	14	11	G	G	G	G	G	G	G	G	G	G	G	G	G	G
Landfill Well #4	03 02 11	1020	13	11	G	G	G	G	G	G	G	G	G	G	G	G	G	G

CHLORINE NEUTRALIZED AT COLLECTION
pH CHECK (LAB)
CONTAINER TYPE: P-P G-G
CHEMICAL PRESERVATION: A-NONE D-NaOH B-HNO3 E-EDTA C-H2SO4 F-ZINC ACETATE G-NATHSO4 SULFATE
PARAMETERS
CLASSIFICATION: ☐ WASTEWATER (NPDES) ☐ DRINKING WATER ☒ PROGRAM ☐ SOLID WASTE SECTION
CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: Y N
SAMPLES COLLECTED BY: (Please Print) H. Lopez / Fat
SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
BCHA 03		B	3/7 300
RELINQUISHED BY (SIG.)		SIG.	
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

P [illegible]

[illegible]pler must place a "C" for composite sample or a "G" for [illegible] sample in the blocks above for each parameter requested

No 213230

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 146

WEYERHAEUSER, NEW BERN (RSDS)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO ,NC 28586

DATE COLLECTED: 07/26/11
DATE REPORTED : 08/25/11

REVIEWED BY:

PARAMETERS	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4	Analysis Date	Analyst	Method Code
PH (field measurement), Units	5.2	5.9	4.6	6.3	07/26/11	RJH	SM4500HB
COD, mg/l	21	62	<20	28	08/02/11	TRB	HACH8000
Ammonia Nitrogen as N, mg/l	0.30	0.93	1.38	1.65	07/28/11	MPH	EPA350.1
Nitrate Nitrogen as N, mg/l	<0.04	0.07	0.04	<0.04	07/27/11	ANO	EPA353.2
Phenol, ug/l	<2	<2	<2	<2	07/29/11	SEJ	SM510A&B
Organic Carbon, mg/l	2.86	25.88	<1.00	9.36	07/27/11	SEJ	SM5310C
Dissolved Residue, mg/l	74	114	24	239	07/27/11	HLB	SM2540C
Sulfate, mg/l	38.5	6.7	10.1	31.6	08/01/11	TRB	SM426C
Cadmium, ug/l	<1.0	<1.0	<1.0	<1.0	08/02/11	CMF	SM3113B
Copper, ug/l	<10	<10	<10	<10	07/30/11	LFJ	EPA200.7
Total Chromium, ug/l	<5.0	<5.0	<5.0	<5.0	07/29/11	LFJ	EPA200.7
Nickel, ug/l	<10	<10	<10	<10	07/29/11	LFJ	EPA200.7
Zinc, ug/l	<10	<10	<10	<10	08/01/11	ADD	SM3111B
Conductivity (at 25c), uMhos	138	145	39	425	07/26/11	RJH	SM2510B
Temperature, °C	25	21	23	23	07/26/11	RJH	SM2550B
Static Water Level, feet	7.36	6.70	10.49	6.98	07/26/11	RJH	
Water Bailed, Gals.	3.0	3.6	1.5	3.9	07/26/11	RJH	

Environment 1, Incorporated

Drinking Water ID: 37719
Wastewater ID: 10

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (RSDS)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO, NC 28586

CLIENT ID: 146

ANALYST: CHS
DATE COLLECTED: 07/29/11
DATE ANALYZED: 08/23/11
DATE REPORTED: 08/25/11

REVIEWED BY:

604 PHENOLS COMPOUND LIST
BY EPA METHOD 625

PARAMETERS, ug/l	Landfill Well #1	Landfill Well #2	Landfill Well #3	Landfill Well #4
1. 4-Chloro-3-Methylphenol	<5.00	<5.00	<5.00	<5.00
2. 2-Chlorophenol	<5.00	<5.00	<5.00	<5.00
3. 2,4-Dichlorophenol	<5.00	<5.00	<5.00	<5.00
4. 2,4-Dimethylphenol	<5.00	<5.00	<5.00	<5.00
5. 4,6-Dinitro-2-Methylphenol	<25.00	<25.00	<25.00	<25.00
6. 2,4-Dinitrophenol	<25.00	<25.00	<25.00	<25.00
7. 2-Nitrophenol	<25.00	<25.00	<25.00	<25.00
8. 4-Nitrophenol	<25.00	<25.00	<25.00	<25.00
9. Pentachlorophenol	<25.00	<25.00	<25.00	<25.00
10. Phenol	<5.00	<5.00	<5.00	<5.00
11. 2,4,6-Trichlorophenol	<5.00	<5.00	<5.00	<5.00

Environment L[illegible]
P.O. Box 7085 [illegible] Oakmont Dr.
Greenville, NC [illegible]58

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUS[illegible]DY RECORD

CLIENT: 146

Weyerhaeuser, New Bern
(RSDS)

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME					
					G	G	
					A	A	
					Plody	Plody Dr	
LF1	7-29-11	0830		24	2	G	G
LF2	7-29-11	0840		22	2	G	G
LF3	7-29-11	0820		22	2	G	G
LF4	7-29-11	0810		23	2	G	G

DISINFECTION
☐ CHLORINE
☐ UV
☐ NONE
☐

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION
A - NONE D - NaOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

PARAMETERS

CLASSIFICATION
☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DW/Q/GW
☐ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY (Please Print)
Bobby Fox

SAMPLES RECEIVED IN LAB AT [illegible] °C

RELINQUISHED BY (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bobby Fox	7-29-11	B	7/29 1107
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS

PLEASE READ INSTRUCTIONS on the back before completing this form.

Sampling procedure "C" for composite samples only. "G" for Grab samples in the laboratory unless each composite requested.

№ 180036

Environmen[illegible]
P.O. Box 708[illegible] Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CU[illegible]ODY RECORD

Page 1 of ___

CLIENT: 146 **Week:** 29

WEYERHAEUSER, NEW BERN (RSDS)
MR. STEVE DIPIERO
1785 WEYERHAEUSER ROAD
VANCEBORO NC 28586

(252) 633-7633

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	COD	Ammonia Nitro.	Nitrate	Phenol	TOC	TDS	Sulfate	3030C Metals	Conductivity	Temperature	Field Parameter	604 Compounds	604 Duplicate
							<2<2			<2<2				<2					
						P	P	P	P	G	P	P	P	P	P	P		G	G
						A	C	C	A	C	C	A	A	B	A	A		A	A
Landfill Well #1	07 26 11	1025		25	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Landfill Well #2	07 26 11	1030		21	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Landfill Well #3	07 26 11	0940		23	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Landfill Well #4	07 26 11	0915		23	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

PARAMETERS

A - NONE
B - HNO
C - H_2SO_4
D - NAOH
E - HCL
F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☒ DWQ/GW
- ☐ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY:
(Please Print)
H Lane / Fot

SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Lane	07 26 11	[illegible]	7/26/240
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:
604 SCANS RE-SAMPLED ON 07/29/11

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for

№ 224796

Environment 1, Incorporated

P.O. BOX 7085
GREENVILLE, N.C. 27835-7085

114 OAKMONT DRIVE
PHONE (919) 756-6208

6017

RESULTS OF ANALYSES FOR:

WEYERHAEUSER, NEW BERN

DATE COLLECTED: 06/26/90

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

LAB ID# 37-7-15
REVIEWED BY:

PARAMETERS	LEACHATE CANAL				
PH, Units	8.4				
BOD, mg/l	39				
COD, mg/l	218				
NITRATE NITROGEN, mg/l	<.02				
T. ORGANIC CARBON, mg/l	303				
CHLORIDE, mg/l	140				
FLUORIDE, mg/l	<.10				
T. DISSOLVED RESIDUE, mg/l	2183				
ARSENIC, mg/l	.007				
BARIUM, mg/l	7.240				
CADMIUM, mg/l	<.005				
COPPER, mg/l	.113				
T. CHROMIUM, mg/l	.082				
IRON, mg/l	39.90				
LEAD, mg/l	.066				
MANGANESE, mg/l	1.600				
MERCURY, mg/l	.0002				
SELENIUM, mg/l	<.005				
SILVER, mg/l	<.005				
ZINC, mg/l	.505				
T. ORGANIC HALIDES, mg/l	.045				
SULFATE, mg/l	80				
CONDUCTIVITY, umhos	2850				
TEMPERATURE, oC	26				

Environment 1, Incorporated

P.O. BOX 7085
GREENVILLE, N.C. 27835-7085

114 OAKMONT DRIVE
PHONE (919) 756-6208

6017

RESULTS OF ANALYSES FOR:
WEYERHAEUSER

DATE: 07/18/91

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

REVIEWED BY: H Stone

PARAMETERS	OWS1	OWS2	OWS3	ODW1	LEACHATE CANAL
pH, units	6.1	6.3	6.6	6.7	8.3
BOD, mg/l	2.8	6.0	1.7	1.3	11
COD, mg/l	65	263	63	39	150
NITRATE NITROGEN, mg/l	<.02	<.02	<.02	<.02	<.02
T. ORGANIC CARBON, mg/l	23.99	34.01	18.61	11.76	51.57
CHLORIDE, mg/l	12	21	11	19	87
FLUORIDE, mg/l	<.10	<.10	<.10	<.10	.22
T. DISSOLVED RESIDUE, mg/l	133	291	311	392	1170
ARSENIC, mg/l	<.005	.010	<.005	.007	<.005
BARIUM, mg/l	.270	.269	.148	.172	.066
CADMIUM, mg/l	<.005	<.005	<.005	<.005	<.005
COPPER, mg/l	.043	.036	.011	.075	.016
T. CHROMIUM, mg/l 0.06	.093	.061	.013	<.010	<.010
IRON, mg/l 0.03	95.30	155.1	30.57	23.07	1.035
LEAD, mg/l	.013	.020	<.005	<.005	<.005
MANGANESE, mg/l 0.05	.877	1.038	.383	1.000	.108
MERCURY, mg/l	<.0002	<.0002	<.0002	<.0002	<.0002
SELENIUM, mg/l	<.005	<.005	<.005	<.005	<.005
SILVER, mg/l	<.005	<.005	<.005	<.005	<.005
ZINC, mg/l	.127	.068	<.010	.012	<.010
T. ORGANIC HALIDES, mg/l	.024	.044	.042	.012	.061
SULFATE, mg/l	24	9	8	26	47
CONDUCTIVITY, uMhos	190	616	541	725	1880
TEMPERATURE, oC	21	21	21	21	32
STATIC WATER LEVEL, feet	6.37	9.66	9.16	9.66	
WELL DEPTH, feet	15.25	15.50	16.50	26.41	

Environment 1, Incorporated

DOD have "L"
Cl

P.O. BOX 7085
GREENVILLE, N.C. 27835-7085

114 OAKMONT DRIVE
PHONE (919) 756-6208

6017

RESULTS OF ANALYSES FOR:

WEYERHAEUSER, NEW BERN

DATE COLLECTED: 06/28/90

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

LAB ID# 37-7-15
REVIEWED BY:

PARAMETERS	OWS1	OWS2	OWS3 (UP-6)	OWD1
pH, Units	6.3	6.4	6.6	6.8
BOD, mg/l	3.1	6.9	3.6	1.6
COD, mg/l	197	194	435	51
NITRATE NITROGEN, mg/l 10.0	.03	<.02	<.02	<.02
— T. ORGANIC CARBON, mg/l	11.9	23.4	16.1	9.64
CHLORIDE, mg/l 250.0	11	<1.0	7	17
FLUORIDE, mg/l 2.0	<.10	<.10	<.10	<.10
— T. DISSOLVED RESIDUE, mg/l	142	424	367	404
ARSENIC, mg/l 0.05	<.005	.006	<.005	.010
BARIUM, mg/l 1.0	.534	1.452	2.284	3.012
CADMIUM, mg/l 0.005	<.005	<.005	<.005	<.005
COPPER, mg/l 1.0	.028	.020	.015	.030
* T. CHROMIUM, mg/l 0.05	.017	.019	.011	.072
* IRON, mg/l 0.3	43.10	109.0	21.30	~~39.90~~
LEAD, mg/l 0.05	.016	<.005	.005	<.005
* MANGANESE, mg/l 0.05	1.110	1.250	.314	2.460
MERCURY, mg/l 0.0011	<.0002	<.0002	<.0002	<.0002
SELENIUM, mg/l 0.01	<.005	<.005	<.005	<.005
SILVER, mg/l 0.05	<.005	<.005	<.005	<.005
ZINC, mg/l 5.0	.050	.047	.102	.109
— T. ORGANIC HALIDES, mg/l	.019	.052	.039	.017
SULFATE, mg/l 250.0	26	20	8	29
CONDUCTIVITY, umhos	439	703	625	772
TEMPERATURE, oC	25	25	25	25
STATIC WATER LEVEL, Feet	6.41	10.00	8.91	9.95
WELL DEPTH, Feet	15.25	15.33	16.50	26.33

5 ppb

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (919) 756-6208
FAX (919) 756-0633

6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

WEYERHAEUSER, NEW BERN

DATE: 08/03/93

REVIEWED BY:

PARAMETERS	OWS1	OWS2	OWS3	OWD1	LEACHATE CANAL
PH (FM), Units	6.1	6.2	6.3	7.6	7.7
BOD, mg/l	>6.6	>6.5	>6.6	2.6	24
COD, mg/l	41	81	27	40	313
NITRATE NITROGEN, mg/l	.02	.02	1.14	.10	.02
T. ORGANIC CARBON, mg/l	18.16	27.42	38.09	9.77	49.69
CHLORIDE, mg/l	23	<1	4	16	68
FLUORIDE, mg/l	<.10	<.10	<.10	.14	.31
T. DISSOLVED RESIDUE, mg/l	248	594	285	475	923
ARSENIC, mg/l	<.005	<.005	<.005	<.005	<.005
BARIUM, mg/l	.224	.326	.150	.238	.239
CADMIUM, mg/l	<.001	<.001	<.001	<.001	<.001
COPPER, mg/l	.024	.019	.018	.019	.014
T. CHROMIUM, mg/l	.015	<.005	<.005	<.005	<.005
IRON, mg/l	55.48	130.6	8.330	29.26	.791
LEAD, mg/l	<.005	<.005	<.005	<.005	<.005
MANGANESE, mg/l	.971	1.048	.096	3.652	.070
MERCURY, mg/l	<.0002	<.0002	<.0002	<.0002	<.0002
SELENIUM, mg/l	<.010	<.010	<.010	<.010	<.010
SILVER, mg/l	<.005	<.005	<.005	<.005	<.005
ZINC, mg/l	.033	.011	.032	<.010	.010
T. ORGANIC HALIDES, mg/l	.020	.027	.011	.015	.041
SULFATE, mg/l	1	10	8	40	58
CONDUCTIVITY (FM), uMhos	460	750	530	880	1300
TEMPERATURE (FM), oC	23	23	24	24	30
STATIC WATER LEVEL, feet	6.18	9.86	8.91	9.90	
WELL DEPTH, feet	14.11	15.38	16.08	26.38	

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GREENVILLE, N.C. 27835-7085

PHONE (919) 756-6208
FAX (919) 756-0633

6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

WEYERHAEUSER, NEW BERN

DATE: 02/09/93

REVIEWED BY:

PARAMETERS	OWS1	OWS2	OWS3	OWD1	LEACHATE CANAL
PH (FM), Units	6.4	6.3	6.5	6.6	7.0
BOD, mg/l	1.3	1.8	2.9	1.2	<9.5
COD, mg/l	45	90	27	38	306
NITRATE NITROGEN, mg/l	<.02	.72	<.02	<.02	.06
T. ORGANIC CARBON, mg/l	18.64	45.68	13.12	14.19	74.61
CHLORIDE, mg/l	5	14	<1	15	[illegible]
FLUORIDE, mg/l	<.10	<.10	<.10	<.10	[illegible]
T. DISSOLVED RESIDUE, mg/l	195	492	242	487	518
ARSENIC, mg/l	<.005	.007	<.005	.008	<.005
BARIUM, mg/l	.075	.210	.068	.167	<.050
CADMIUM, mg/l	<.001	<.001	<.001	<.001	<.001
COPPER, mg/l	.029	.048	.018	.032	.025
T. CHROMIUM, mg/l	.020	.077	.009	.006	<.005
IRON, mg/l	35.45	114.6	9.050	27.71	1.964
LEAD, mg/l	<.005	.026	<.005	<.005	<.005
MANGANESE, mg/l	.408	1.638	.187	4.914	.196
MERCURY, mg/l	<.0002	.0002	<.0002	<.0002	<.0002
SELENIUM, mg/l	<.005	<.005	<.005	<.005	<.005
SILVER, mg/l	<.005	<.005	<.005	<.005	<.005
ZINC, mg/l	.036	.064	<.010	<.010	.015
T. ORGANIC HALIDES, mg/l	.020	.024	.006	.017	.062
SULFATE, mg/l	10	16	3	36	27
CONDUCTIVITY (FM), uMhos	220	820	340	750	680
TEMPERATURE (FM), oC	15	15	15	15	9
STATIC WATER LEVEL, feet	5.00	9.47	8.54	9.29	
WELL DEPTH, feet	14.35	15.57	16.24	26.45	

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (919) 756-6208
FAX (919) 756-0633

6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

WEYERHAEUSER, NEW BERN

DATE COLLECTED: 08/10/94

REVIEWED BY:

PARAMETERS	OWS1	OWS2	OWS3	OWD1	LEACHATE CANAL
PH (FM), Units	6.1	6.3	6.3	6.4	7.3
BOD, mg/l	3.3	5.5	2.7	2.2	23
COD, mg/l	54	93	33	31	94
NITRATE NITROGEN, mg/l	<.04	<.04	<.04	<.04	<.04
T. ORGANIC CARBON, mg/l	18.98	30.16	16.10	14.02	32.21
CHLORIDE, mg/l	8	16	2	17	54
FLUORIDE, mg/l	<.10	<.10	<.10	<.10	.12
T. DISSOLVED RESIDUE, mg/l	389	655	333	498	856
ARSENIC, mg/l	<.010	<.010	<.010	<.010	<.010
BARIUM, mg/l	<.500	<.500	<.500	<.500	<.500
CADMIUM, mg/l	<.001	<.001	<.001	<.001	<.001
COPPER, mg/l	<.200	<.200	<.200	<.200	<.200
T. CHROMIUM, mg/l	.027	<.010	<.010	<.010	<.010
IRON, mg/l	38.13	82.70	3.827	18.90	1.845
LEAD, mg/l	.013	<.010	<.010	<.010	<.010
MANGANESE, mg/l	.370	1.487	.127	5.035	.216
MERCURY, mg/l	.0003	<.0002	<.0002	<.0002	<.0002
SELENIUM, mg/l	<.020	<.020	<.020	<.020	<.020
SILVER, mg/l	<.010	<.010	<.010	<.010	<.010
ZINC, mg/l	<.050	<.050	<.050	<.050	<.050
T. ORGANIC HALIDES, mg/l	.022	.028	.016	.014	.029
SULFATE, mg/l	4	21	16	40	60
CONDUCTIVITY (FM), uMhos	250	1000	520	860	1200
TEMPERATURE (FM), oC	22	22	25	18	31
STATIC WATER LEVEL, feet	5.29	9.51	8.86	9.47	
WELL DEPTH, feet	14.10	15.40	16.15	26.42	

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (919) 756-6208
FAX (919) 756-0633

6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

WEYERHAEUSER, NEW BERN

DATE COLLECTED: 02/07/95

REVIEWED BY:

PARAMETERS	OWS1	OWS2	OWS3	OWD1	LEACHATE CANAL
PH (FM), Units	6.2	6.3	6.5	6.6	7.6
BOD, mg/l	1.9	1.9	2.1	1.3	5.8
COD, mg/l	22	<10	<10	20	61
NITRATE NITROGEN, mg/l	<.04	.52	.16	<.04	.12
T. ORGANIC CARBON, mg/l	18.28	20.87	9.34	11.81	24.64
CHLORIDE, mg/l	14	16	7	19	111
FLUORIDE, mg/l	.30	.36	.34	.24	.52
T. DISSOLVED RESIDUE, mg/l	225	513	309	498	996
ARSENIC, mg/l	<.010	<.010	<.010	<.010	<.010
BARIUM, mg/l	<.500	<.500	<.500	<.500	<.500
CADMIUM, mg/l	<.001	<.001	<.001	<.001	<.001
COPPER, mg/l	<.200	<.200	<.200	<.200	<.200
T. CHROMIUM, mg/l	.016	<.010	<.010	<.010	<.010
IRON, mg/l	35.18	42.58	8.275	23.51	2.402
LEAD, mg/l	.011	<.010	<.010	<.010	<.010
MANGANESE, mg/l	1.506	1.800	.177	4.475	.131
MERCURY, mg/l	<.0002	<.0002	<.0002	<.0002	<.0002
SELENIUM, mg/l	<.020	<.020	<.020	<.020	<.020
SILVER, mg/l	<.010	<.010	<.010	<.010	<.010
ZINC, mg/l	<.050	<.050	<.050	<.050	<.050
T. ORGANIC HALIDES, mg/l	.024	.028	.019	.017	.025
SULFATE, mg/l	15	30	17	50	60
CONDUCTIVITY (FM), uMhos	210	680	370	910	1800
TEMPERATURE (FM), oC	8	11	10	11	4
STATIC WATER LEVEL, feet	4.85	9.58	8.61	9.53	
WELL DEPTH, feet	14.06	15.43	16.29	26.46	

Environment 1, Incorporated

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (919) 756-6208
FAX (919) 756-0633

6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

WEYERHAEUSER, NEW BERN

DATE COLLECTED: 08/07/95

REVIEWED BY:

PARAMETERS	OWS1	OWS2	OWS3	OWD1	LEACHATE CANAL
PH (FM), Units	6.3	6.4	6.5	6.4	7.8
BOD, mg/l	2.5	5.2	2.3	1.8	12
COD, mg/l	51	71	24	46	102
NITRATE NITROGEN, mg/l	.04	.04	.10	.04	.08
T. ORGANIC CARBON, mg/l	19.70	21.86	11.29	10.45	29.98
CHLORIDE, mg/l	10	10	2	14	38
FLUORIDE, mg/l	.24	<.10	.10	.15	.23
T. DISSOLVED RESIDUE, mg/l	328	809	356	547	783
ARSENIC, mg/l	<.010	<.010	<.010	<.010	<.010
BARIUM, mg/l	<.500	<.500	<.500	<.500	<.500
CADMIUM, mg/l	<.001	<.001	<.001	.003	<.001
COPPER, mg/l	<.200	<.200	<.200	<.200	<.200
T. CHROMIUM, mg/l	.023	<.010	<.010	<.010	<.010
IRON, mg/l	43.11	63.10	7.120	32.08	1.739
LEAD, mg/l	<.010	<.010	<.010	<.010	<.010
MANGANESE, mg/l	.454	1.068	.098	3.605	.100
MERCURY, mg/l	<.0005	<.0005	<.0005	<.0005	<.0005
SELENIUM, mg/l	<.020	<.020	<.020	<.020	<.020
SILVER, mg/l	<.010	<.010	<.010	<.010	<.010
ZINC, mg/l	<.050	<.050	<.050	<.050	<.050
T. ORGANIC HALIDES, mg/l	.022	.028	.014	.016	.022
SULFATE, mg/l	8	6	<5	29	80
CONDUCTIVITY (FM), uMhos	200	1400	420	890	1100
TEMPERATURE (FM), oC	23	22	25	20	29
STATIC WATER LEVEL, feet	5.35	9.39	8.55	9.38	
WELL DEPTH, feet	14.07	15.40	16.28	26.51	

P. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (919) 756-6238
FAX (919) 756-0532

6042

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

DATE COLLECTED: 08/01/96

REVIEWED BY:

PARAMETERS	OWS1	OWS2	OWS3	OWD1
pH (FM), Units	6.4	6.4	6.6	6.7
BOD, mg/l	2.5	4.4	4.6	6.4
COD, mg/l	67	94	47	40
NITRATE NITROGEN, mg/l	<.04	<.04	<.04	<.04
T. ORGANIC CARBON, mg/l	22.10	32.85	10.08	10.33
CHLORIDE, mg/l	16	16	4	17
FLUORIDE, mg/l	<.10	<.10	<.10	<.10
T. DISSOLVED RESIDUE, mg/l	190	637	321	525
ARSENIC, mg/l	<.010	<.010	<.010	<.010
BARIUM, mg/l	<.500	<.500	<.500	<.500
CADMIUM, mg/l	<.001	<.001	<.001	<.001
COPPER, mg/l	<.200	<.200	<.200	<.200
T. CHROMIUM, mg/l	.025	<.010	<.010	.016
IRON, mg/l	55.58	77.54	41.52	15.20
LEAD, mg/l	.011	<.010	<.010	.018
MANGANESE, mg/l	.457	1.226	2.422	.203
MERCURY, mg/l	<.0010	<.0010	<.0010	<.0010
SELENIUM, mg/l	<.020	<.020	<.020	<.020
SILVER, mg/l	<.010	<.010	<.010	<.010
ZINC, mg/l	<.050	<.050	<.050	<.050
T. ORGANIC HALIDES, mg/l	.016	.031	.017	.021
SULFATE, mg/l	6	12	17	38
CONDUCTIVITY (FM), uMhos	190	1000	360	640
TEMPERATURE (FM), oC	23	22	25	21
STATIC WATER LEVEL, feet	5.33	9.50	8.69	9.46
WELL DEPTH, feet	14.11	15.40	16.27	26.52

(FM) = FIELD MEASUREMENT, PERFORMED ON DAY OF COLLECTION

entered

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (919) 756-6208
FAX (919) 756-0633

6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

WEYERHAEUSER, NEW BERN

DATE COLLECTED: 02/13/96

REVIEWED BY:

PARAMETERS	OWS1	OWS2	OWS3	OWD1	LEACHATE CANAL
PH (FM), Units	6.0	6.1	6.5	6.4	7.9
BOD, mg/l	4.4	4.4	2.4	3.3	19
COD, mg/l	29	72	<10	37	102
NITRATE NITROGEN, mg/l	<.04	6.78	<.04	<.04	<.04
T. ORGANIC CARBON, mg/l	13.67	30.38	5.16	11.78	31.72
CHLORIDE, mg/l	8	12	2	15	69
FLUORIDE, mg/l	<.10	<.10	<.10	<.10	.40
T. DISSOLVED RESIDUE, mg/l	265	894	278	542	1060
ARSENIC, mg/l	<.010	<.010	<.010	<.010	<.010
BARIUM, mg/l	<.500	<.500	<.500	<.500	<.500
CADMIUM, mg/l	<.001	<.001	<.001	<.001	<.001
COPPER, mg/l	<.200	<.200	<.200	<.200	<.200
T. CHROMIUM, mg/l	<.010	<.010	<.010	<.010	<.010
IRON, mg/l	14.28	.835	.891	19.69	3.430
LEAD, mg/l	<.010	<.010	<.010	<.010	<.010
MANGANESE, mg/l	.331	.737	.065	4.570	.194
MERCURY, mg/l	<.0005	<.0005	<.0005	<.0005	<.0005
SELENIUM, mg/l	<.020	<.020	<.020	<.020	<.020
SILVER, mg/l	<.010	<.010	<.010	<.010	<.010
ZINC, mg/l	<.050	<.050	<.050	<.050	<.050
T. ORGANIC HALIDES, mg/l	.019	.035	.014	.018	.024
SULFATE, mg/l	<5	40	12	76	63
CONDUCTIVITY (FM), uMhos	190	1000	390	770	1400
TEMPERATURE (FM), oC	9	15	14	16	9
STATIC WATER LEVEL, feet	4.83	9.52	8.58	9.44	
WELL DEPTH, feet	13.93	15.35	15.91	26.44	

In result

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (919) 756-6208
FAX (919) 756-0633

LANDFILL ANALYSIS

CLIENT: Weyerhaeuser, New Bern (Landfill)
Mr. Dave Garner
P.O. Box 1391
New Bern, NC 28560

CLIENT ID: 6017
DATE COLLECTED: 08/15/97

REVIEWED BY:

Parameters	Date Analyzed	Reporting Limit	OWS1	OWS2	OWS3	OWD1	Leachate Canal
BOD, mg/l	08/15/97	1.0	7.5	>11	3.4	6.2	10
COD, mg/l	08/20/97	10.0	51	62	28	31	150
Nitrate Nitrogen, mg/l	08/15/97	0.04	0.08	<0.04	0.05	<0.04	0.05
T. Organic Carbon, mg/l	08/20/97	1.0	20.78	22.82	8.27	13.61	41.85
Chloride, mg/l	08/15/97	1.0	17	17	8	19	67
Fluoride, mg/l	08/20/97	0.1	<0.10	<0.10	<0.10	<0.10	0.18
T. Dissolved Residue, mg/l	08/18/97	1.0	225	486	327	463	1080
Arsenic, mg/l	08/22/97	0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Barium, mg/l	08/27/97	0.500	<0.500	0.661	0.695	<0.500	<0.500
Cadmium, mg/l	08/21/97	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper, mg/l	08/15/97	0.200	<0.200	<0.200	<0.200	<0.200	<0.200
Chromium, mg/l	08/21/97	0.010	0.010	<0.010	<0.010	<0.010	<0.010
Iron, mg/l	08/15/97	0.010	27.60	85.20	14.43	0.760	29.37
Lead, mg/l	08/18/97	0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Manganese, mg/l	08/18/97	0.010	0.665	1.680	0.110	2.060	0.073
Mercury, mg/l	08/19/97	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium, mg/l	08/21/97	0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Silver, mg/l	08/21/97	0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zinc, mg/l	08/18/97	0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Organic Halides, mg/l	08/28/97	0.005	0.020	0.033	0.018	0.020	0.026
Sulfate, mg/l	08/19/97	1.0	<5.0	30.8	29.3	48.3	71.9
pH, Units (FM)			6.4	6.3	6.6	6.7	8.0
Conductivity, uMhos (FM)			310	930	500	800	1500
Temperature, oC (FM)			23	23	26	22	30
Static Water Level, feet			6.05	10.18	8.96	10.15	
Well Depth, feet			14.08	15.41	16.24	26.51	

(FM) = "FIELD METHOD", PERFORMED ON DATE OF COLLECTION

P. O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (919) 756-6208
FAX (919) 756-0633

LANDFILL ANALYSIS

CLIENT: Weyerhaeuser, New Bern (Landfill)
Mr. Dave Garner
P.O. Box 1391
New Bern, NC 28560

CLIENT ID: 6017
DATE COLLECTED: 02/06/97

REVIEWED BY:

Parameters	Date Analyzed	Reporting Limit	OWS1	OWS2	OWS3	OWD1	Leachate Canal
BOD, mg/l	02/06/97	1.0	3.4	>6.3	3.2	3.9	15
COD, mg/l	02/10/97	10.0	43	59	29	32	76
Nitrate Nitrogen, mg/l	02/12/97	0.04	<0.04	2.12	<0.04	<0.04	<0.04
T. Organic Carbon, mg/l	02/19/97	1.0	20.16	25.41	12.09	9.75	29.82
Chloride, mg/l	02/12/97	1.0	19	15	10	17	68
Fluoride, mg/l	02/13/97	0.1	<0.10	0.11	<0.10	0.14	0.37
T. Dissolved Residue, mg/l	02/07/97	1.0	235	524	344	501	1060
Arsenic, mg/l	02/07/97	0.010	<0.010	<0.010	<0.010	0.011	<0.010
Barium, mg/l	02/14/97	0.500	<0.500	<0.500	<0.500	<0.500	<0.500
Cadmium, mg/l	02/11/97	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper, mg/l	02/07/97	0.200	<0.200	<0.200	<0.200	<0.200	<0.200
Chromium, mg/l	02/11/97	0.010	0.014	<0.010	0.024	<0.010	<0.010
Iron, mg/l	02/07/97	0.010	36.68	0.094	29.75	30.21	1.494
Lead, mg/l	02/07/97	0.010	0.011	<0.010	<0.010	<0.010	<0.010
Manganese, mg/l	02/07/97	0.010	0.493	<0.010	0.146	1.193	0.186
Mercury, mg/l	02/11/97	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium, mg/l	02/07/97	0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Silver, mg/l	02/11/97	0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zinc, mg/l	02/07/97	0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Total Organic Halides, mg/l	02/26/97	0.005	0.018	0.027	0.017	0.020	0.028
Sulfate, mg/l	02/07/97	1.0	<5	14	8	48	26
pH, Units (FM)			6.7	6.6	6.8	6.8	7.6
Conductivity, uMhos (FM)			300	1000	530	943	1600
Temperature, oC (FM)			12	14	17	16	11
Static Water Level, feet			4.69	9.75	8.57	9.68	
Well Depth, feet			14.11	15.41	16.26	26.45	

(FM) = "FIELD METHOD", PERFORMED ON DATE OF COLLECTION

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 08/31/98
DATE REPORTED : 10/08/98

REVIEWED BY:

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Metho Code
PH (field measurement), Units	7.0	6.3	6.4	6.5	6.4	08/31/98	RJH	EPA150.1
BOD, mg/l	8.6	3.4	>6.4	2.9	5.2	08/31/98	JJR	SM5210B
COD, mg/l	67	39	60	24	39	09/03/98	SEJ	HACH8000
Nitrate Nitrogen, mg/l	<0.04	<0.04	0.47	0.15	<0.04	09/02/98	TNN	EPA353.2
Total Organic Carbon, mg/l	23.72	14.87	22.35	14.09	9.75	09/04/98	ACA	EPA415.1
Chloride, mg/l	38	11	17	7	14	09/02/98	JMH	SM4500-CLB
Fluoride, mg/l	0.18	0.11	0.11	<0.10	0.16	09/04/98	ACA	SM4500-FC
Total Dissolved Residue, mg/l	613	241	763	239	471	09/01/98	SWL	EPA160.1
Arsenic, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	10/05/98	WSW	EPA7061
Barium, mg/l	<0.500	<0.500	0.650	<0.500	<0.500	09/04/98	WTH	EPA7080
Cadmium, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	10/07/98	WSW	EPA7131
Copper, mg/l	<0.200	<0.200	<0.200	<0.200	<0.200	09/02/98	WTH	EPA7210
Total Chromium, mg/l	<0.010	0.010	<0.010	0.062	<0.010	10/06/98	WSW	EPA7191
Iron, mg/l	0.749	30.720	30.230	35.770	25.040	09/02/98	WTH	EPA236.1
Manganese, mg/l	0.114	0.430	0.943	0.114	2.250	09/01/98	WTH	EPA243.1
Lead, mg/l	<0.010	<0.010	<0.010	0.018	<0.010	09/27/98	WSW	EPA7421
Mercury, mg/l	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	09/01/98	WTH	EPA7470
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	09/24/98	WSW	EPA7740
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	09/24/98	WSW	EPA7761
Zinc, mg/l	<0.050	<0.050	<0.050	0.065	<0.050	09/02/98	WTH	EPA7950
Total Organic Halides, mg/l	0.036	0.030	0.027	0.016	0.018	09/03/98	SEJ	SM506
Sulfate, mg/l	58.9	17.5	21.2	12.7	30.9	09/11/98	ACA	EPA375.4
Conductivity (at 25c), uMhos	1000	320	1400	320	940	09/01/98	JMH	SM2510B
Temperature, °C	29	24	25	28	22	08/31/98	RJH	SM2550B
Static Water Level, Feet		3.79	8.11	6.96	8.12	08/31/98	RJH	
Well Depth, feet		15.38	13.92	16.23	26.68	08/31/98	RJH	

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (919) 756-6208
FAX (919) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 02/16/98
DATE REPORTED : 03/04/98

REVIEWED BY: _____

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Methc Code
PH (field measurement), Units	5.9	5.9	6.0	5.9	6.6	02/16/98	RJH	EPA150.1
BOD, mg/l	<1.6	>6.9	8.1	1.0	4.9	02/16/98	JMH	SM5210B
COD, mg/l	26	57	29	21	22	02/17/98	TRB	HACH8000
Nitrate Nitrogen, mg/l	0.37	0.84	<0.04	0.30	<0.04	02/18/98	TNN	EPA353.2
Total Organic Carbon, mg/l	16.32	28.27	18.47	10.29	8.74	02/17/98	SEJ	EPA41[illegible]
Chloride, mg/l	8	14	15	7	15	02/17/98	KAH	SM450[illegible]
Fluoride, mg/l	<0.10	<0.10	<0.10	<0.10	0.10	02/17/98	ACA	SM4500-FC
Total Dissolved Residue, mg/l	110	767	276	335	524	02/17/98	KAH	EPA160.1
Arsenic, mg/l	<0.010	<0.010	<0.010	0.011	<0.010	02/16/98	WSW	EPA7060
Barium, mg/l	<0.500	0.525	<0.500	<0.500	<0.500	03/03/98	WTH	EPA7080
Cadmium, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	02/18/98	WSW	EPA7131
Copper, mg/l	<0.200	<0.200	<0.200	<0.200	<0.200	03/03/98	WTH	EPA7210
Total Chromium, mg/l	<0.010	<0.010	<0.010	0.039	<0.010	02/20/98	WSW	EPA7191
Iron, mg/l	0.794	20.510	54.500	66.300	25.760	02/19/98	WTH	EPA236.1
Manganese, mg/l	0.036	1.029	0.715	0.307	2.780	02/17/98	WTH	EPA243.1
Lead, mg/l	<0.010	<0.010	0.014	0.014	<0.010	02/19/98	WSW	EPA7421
Mercury, mg/l	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	02/18/98	WTH	EPA7470
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	03/03/98	WSW	EPA7740
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	02/20/98	WSW	EPA7761
Zinc, mg/l	<0.050	<0.050	0.054	0.063	<0.050	02/19/98	WTH	EPA7950
Total Organic Halides, mg/l	0.030	0.022	0.030	0.019	0.016	02/19/98	SEJ	SM506
Sulfate, mg/l	11.5	157.1	<5.0	9.4	35.4	02/19/98	TRB	EPA375.4
Conductivity (at 25c), uMhos	110	1100	280	260	860	02/19/98	JMH	SM2510B
Temperature, °C	7	13	11	13	15	02/16/98	RJH	SM2550B
Static Water Level, Feet		7.93	4.00	7.20	7.92	02/16/98	RJH	
Well Depth, feet		15.38	13.92	16.23	26.68	02/16/98	RJH	

Environment 1, Incorporated

. .O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 08/04/99
DATE REPORTED : 08/25/99

REVIEWED BY:

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units	8.3	6.5	6.6	6.7	6.8	08/04/99	RJH	EPA150.1
BOD, mg/l	55	2.9	6.5	<2.0	6.1	08/05/99	TRB	SM5210B
COD, mg/l	266	50	67	37	45	08/06/99	TRB	HACH8000
Nitrate Nitrogen, mg/l	<0.04	<0.04	<0.04	<0.04	<0.04	08/06/99	RS	EPA353.2
Total Organic Carbon, mg/l	39.38	19.09	22.27	8.14	9.53	08/11/99	ACA	EPA415.1
Chloride, mg/l	70	13	15	6	13	08/05/99	ACA	SM4500-CLB
Fluoride, mg/l	0.18	0.13	0.11	0.10	0.10	08/06/99	ACA	SM4500-FC
Total Dissolved Residue, mg/l	967	257	579	350	475	08/09/99	TRB	EPA160.1
Arsenic, mg/l	<0.010	<0.010	<0.010	<0.010	0.011	08/11/99	WTH	EPA7060
Barium, mg/l	<0.500	<0.500	<0.500	<0.500	<0.500	08/09/99	LFJ	EPA6010B
Cadmium, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	08/09/99	LFJ	EPA6010B
Copper, mg/l	<0.200	<0.200	<0.200	<0.200	<0.200	08/09/99	WTH	EPA7210
Total Chromium, mg/l	<0.010	0.017	<0.010	0.014	<0.010	08/09/99	LFJ	EPA6010B
Iron, mg/l	2.162	29.290	42.260	17.800	24.800	08/09/99	WTH	EPA236.1
Manganese, mg/l	0.209	0.798	1.565	0.132	1.935	08/09/99	LFJ	EPA6010B
Lead, mg/l	<0.005 ?	0.011	<0.010	<0.010	<0.010	08/13/99	WTH	EPA7421
Mercury, mg/l	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	08/11/99	WTH	EPA7470
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	08/12/99	WTH	EPA7740
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	08/09/99	LFJ	EPA6010B
Zinc, mg/l	<0.050	<0.050	<0.050	<0.050	<0.050	08/09/99	LFJ	EPA6010B
Total Organic Halides, mg/l	0.047	0.036	0.036	0.024	0.016	08/18/99	SEJ	SM506
Sulfate, mg/l	96.7	9.4	<5.0	26.1	36.0	08/10/99	TRB	EPA375.4
Conductivity (at 25c), uMhos	1400	380	990	520	810	08/04/99	RJH	SM2510B
Temperature, °C	26	21	23	23	20	08/04/99	RJH	SM2550B
Static Water Level, Feet		5.72	9.78	8.78	9.72	08/04/99	RJH	
Well Depth, feet		15.38	13.92	16.23	26.68	08/04/99	RJH	

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 02/10/99
DATE REPORTED : 03/02/99

REVIEWED BY:

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units	8.2	6.5	6.6	6.8	6.7	02/10/99	RJH	EPA150.1
BOD, mg/l	19	3.6	7.6	<2.0	3.1	02/11/99	TRB	SM5210B
COD, mg/l	255					02/16/99	TRB	HACH8000
		54	53	65	40	02/12/99	TRB	HACH8000
Nitrate Nitrogen, mg/l	<0.04	<0.04	1.48	0.78	<0.04	02/12/99	TNN	EPA353.2
Total Organic Carbon, mg/l	37.82	21.02	20.56	12.54	9.81	02/12/99	ACA	EPA415
Chloride, mg/l	38	12	12	5	12	02/11/99	ACA	SM4500-CLB
Fluoride, mg/l	<0.10	<0.10	<0.10	<0.10	<0.10	02/12/99	ACA	SM4500-FC
Total Dissolved Residue, mg/l	1180	240	713	257	516	02/11/99	TRB	EPA160.1
Arsenic, mg/l	<0.010	<0.010	<0.010	0.015	0.010	02/22/99	WTH	EPA7060
Barium, mg/l	<0.500	<0.500	<0.500	<0.500	<0.500	02/19/99	LFJ	EPA6010B
Cadmium, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	02/20/99	WTH	EPA7131
Copper, mg/l	<0.200	<0.200	<0.200	<0.200	<0.200	02/18/99	WTH	EPA7210
Total Chromium, mg/l	<0.010	<0.010	<0.010	0.012	<0.010	02/19/99	LFJ	EPA6010B
Iron, mg/l	2.460	28.310	25.540	40.270	29.780	02/16/99	WTH	EPA236.1
Manganese, mg/l	0.211	0.670	1.141	0.173	1.969	02/19/99	LFJ	EPA6010B
Lead, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	02/18/99	WTH	EPA7421
Mercury, mg/l	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	02/17/99	WTH	EPA7470
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	02/24/99	WTH	EPA7740
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	02/19/99	LFJ	EPA6010B
Zinc, mg/l	<0.010	<0.050	<0.050	<0.050	<0.050	02/26/99	LFJ	EPA6010B
Total Organic Halides, mg/l	0.045	0.032	0.036	0.017	0.019	02/12/99	SEJ	SM506
Sulfate, mg/l	414.6	<5.0	29.9	9.7	20.2	02/15/99	TRB	EPA375.4
Conductivity (at 25c), uMhos	1800	420	1200	420	900	02/11/99	JMH	SM2510B
Temperature, °C	15	17	16	18	18	02/10/99	RJH	SM2550B
Static Water Level, Feet		4.47	9.49	8.25	9.45	02/10/99	RJH	
Well Depth, feet		15.38	13.92	16.23	26.68	02/10/99	RJH	

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 02/07/00
DATE REPORTED : 03/02/00

REVIEWED BY:

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units	6.8	6.2	6.4	6.6	6.4	02/07/00	RJH	EPA150.1
BOD, mg/l	<8.0	2.8	6.1	2.5	3.5	02/07/00	HNB	SM5210B
COD, mg/l	74	33	50	19	31	02/15/00	TRB	HACH8000
Nitrate Nitrogen, mg/l	<0.04	<0.04	2.29	0.70	<0.04	02/09/00	RS	EPA353.2
Total Organic Carbon, mg/l	26.40	18.62	20.17	5.47	8.79	02/16/00	SEJ	EPA415.1
Chloride, mg/l	29	10	13	5	10	02/10/00	TRB	SM4500-CLB
Fluoride, mg/l	0.11	<0.10	<0.10	<0.10	<0.10	02/08/00	RS	SM4500-FC
Total Dissolved Residue, mg/l	1340	238	529	247	411	02/09/00	TRB	EPA160.1
Arsenic, mg/l	<0.010	<0.010	<0.010	<0.000 0.010	0.011	02/24/00	WTH	EPA7060
Barium, mg/l	<0.500	<0.500	<0.500			02/14/00	LFJ	EPA6010B
				<0.500		03/01/00	LFJ	EPA7080
					<0.500	02/14/00	LFJ	EPA6010B
Cadmium, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	02/15/00	WTH	EPA7131
Copper, mg/l	<0.200	<0.200	<0.200	<0.200	<0.200	02/14/00	WTH	EPA7210
Total Chromium, mg/l	<0.010	0.018	<0.010	0.027	<0.010	02/14/00	LFJ	EPA6010B
Iron, mg/l	2.638	37.590	17.800	10.399	24.100	02/14/00	LFJ	EPA236.1
Manganese, mg/l	0.451	0.460	1.095	0.039	2.018	02/14/00	LFJ	EPA6010B
Lead, mg/l	<0.010	<0.010	<0.010	0.011	<0.010	02/21/00	WTH	EPA7421
Mercury, mg/l	<0.0005	0.0008	<0.0005	<0.0005	<0.0005	02/09/00	WTH	EPA7470
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	03/01/00	WTH	EPA7740
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	02/14/00	LFJ	EPA6010B
Zinc, mg/l	<0.050	<0.050	<0.050	<0.050	<0.050	02/14/00	LFJ	EPA6010B
Total Organic Halides, mg/l	0.044	0.041	0.036	0.030	0.020	02/18/00	SEJ	SM506
Sulfate, mg/l	127.3	<5.0	12.5	8.0	21.1	02/11/00	TRB	EPA375.4
Conductivity (at 25c), uMhos	2400	400	1300	360	940	02/07/00	RJH	SM2510B
Temperature, °C	8	12	14	15	18	02/07/00	RJH	SM2550B
Static Water Level, Feet		4.33	9.09	7.96	9.06	02/07/00	RJH	
Well Depth, feet		13.96	15.36	16.23	26.43	02/07/00	RJH	

yellow = correct in dbf 2/3

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633
Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 02/01/01
DATE REPORTED : 02/21/01

REVIEWED BY:

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
Static Water Level, Feet		9.65	4.35	8.17	9.61	02/01/01	RJH	
Well Depth, feet		13.96	15.36	16.23	26.43	02/01/01	RJH	

approx switched

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

DATE COLLECTED: 08/17/00
DATE REPORTED : 09/21/00

RECEIVED
SEP 25 2000
By

REVIEWED BY:

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units	8.5	6.3	6.3	6.6	6.4	08/17/00	RJH	EPA150.1
BOD, mg/l	24	2.4	8.2	3.7	3.5	08/17/00	TRB	SM5210B
COD, mg/l	134	36	55	26	31	08/18/00	TRB	HACH8000
Nitrate Nitrogen, mg/l	0.09	0.06	<0.04	<0.04	<0.04	08/18/00	NNR	EPA353.2
Total Organic Carbon, mg/l	69.21	14.35	21.03	6.75	9.45	08/21/00	SEJ	EPA415.1
[illegible]oride, mg/l	29	18	12	11	17	08/18/00	CDH	SM4500-C[illegible]
Fluoride, mg/l	<0.10	<0.10	<0.10	<0.10	<0.10	08/22/00	DML	SM4500-FC
Total Dissolved Residue, mg/l	1060	211	529	265	448	08/18/00	HNB	EPA160.1
Arsenic, mg/l	<0.010	<0.010	<0.000	<0.010	<0.010	08/28/00	MLH	EPA7060
Barium, mg/l	<0.500	<0.500	<0.500	<0.500	<0.500	09/01/00	LFJ	EPA6010B
Cadmium, mg/l	<0.001	<0.001	<0.001			08/30/00	MLH	EPA7131
				<0.001	<0.001	09/11/00	MLH	EPA7131
Copper, mg/l	<0.200	<0.200	<0.200	<0.200	<0.200	08/28/00	MLH	EPA7210
Total Chromium, mg/l	0.050	0.018	<0.010	0.039	<0.010	09/05/00	LFJ	EPA6010B
Iron, mg/l	3.655	25.290	55.070	24.340	24.250	08/29/00	MLH	EPA236.1
Manganese, mg/l	0.031	<0.010	0.749	0.686	0.143	09/01/00	LFJ	EPA6010B
Lead, mg/l	0.016	<0.010				09/05/00	MLH	EPA7421
			<0.000			09/14/00	MLH	EPA7421
				<0.010	<0.010	09/05/00	MLH	EPA7421
Mercury, mg/l	<0.0005					08/22/00	LFJ	EPA7470
		<0.0005	<0.0005	<0.0005	<0.0005	08/21/00	LFJ	EPA7470
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	09/14/00	MLH	EPA7740
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	09/01/00	LFJ	EPA6010B
Zinc, mg/l	0.082	<0.050	<0.050	<0.050	<0.050	09/05/00	LFJ	EPA6010B
Total Organic Halides, mg/l	0.050	0.045	0.041	0.036	0.025	08/18/00	SEJ	SM506
Sulfate, mg/l	143.5	<5.0	7.0	8.2	19.3	08/21/00	TRB	EPA375.4
Conductivity (at 25c), uMhos	1500	320	960	400	800	08/17/00	RJH	SM2510B
Temperature, °C	25	23	22	24	21	08/17/00	RJH	SM2550B
Static Water Level, Feet		4.43	9.01	7.85	9.00	08/17/00	RJH	
Well Depth, feet		13.96	15.36	16.23	26.43	08/17/00	RJH	

Environment 1, Incorporated

.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 08/01/01
DATE REPORTED : 08/23/01

REVIEWED BY:

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units	Missing	6.2	6.4	6.3	6.4	08/01/01	RJH	EPA150.1
BOD, mg/l	Missing	<2.0	2.7	<2.0	<2.0	08/01/01	TRB	SM5210B
COD, mg/l	Missing	51	51	33	36	08/07/01	TRB	HACH8000
Nitrate Nitrogen, mg/l	Missing	<0.04	<0.04	<0.04	<0.04	08/01/01	NNR	EPA353.2
Total Organic Carbon, mg/l	Missing	20.62	17.30	9.18	10.16	08/09/01	SEJ	EPA415.1
Chloride, mg/l	Missing	10	12	3	11	08/02/01	CDH	SM4500-CLB
Fluoride, mg/l	Missing	<0.10	<0.10	<0.10	<0.10	08/13/01	CDH	SM4500-FC
Total Dissolved Residue, mg/l	Missing	172	524	271	479	08/02/01	TRB	EPA160.1
Arsenic, mg/l	Missing	<0.010	<0.010	0.023	0.012	08/07/01	MLH	EPA7060
Barium, mg/l	Missing	<0.500	<0.500	<0.500	<0.500	08/07/01	LFJ	EPA6010B
Cadmium, mg/l	Missing	<0.001	<0.001	<0.001	<0.001	08/13/01	MLH	EPA7131
Copper, mg/l	Missing	<0.200	<0.200	<0.200	<0.200	08/06/01	MLH	EPA7210
Total Chromium, mg/l	Missing	0.031	0.020	0.076	<0.010	08/15/01	LFJ	EPA6010B
Iron, mg/l	Missing	24.575	42.910	38.890	20.890	08/09/01	MLH	EPA236.1
Manganese, mg/l	Missing	0.322	1.604	0.127	2.046	08/07/01	LFJ	EPA6010B
Lead, mg/l	Missing	0.012	<0.010	<0.010	<0.010	08/09/01	MLH	EPA7421
Mercury, mg/l	Missing	<0.0005	<0.0005	<0.0005	<0.0005	08/07/01	LFJ	EPA7470
Selenium, mg/l	Missing	<0.020	<0.020	<0.020	<0.020	08/08/01	MLH	EPA7740
Silver, mg/l	Missing	<0.010	<0.010	<0.010	<0.010	08/08/01	LFJ	EPA6010B
Zinc, mg/l	Missing	<0.050	<0.050	<0.050	<0.050	08/08/01	LFJ	EPA6010B
Total Organic Halides, mg/l	Missing	0.031	0.028	0.035	0.031	08/09/01	SEJ	SM506
Sulfate, mg/l	Missing	5.5	22.9	11.8	15.4	08/03/01	TRB	EPA375.4
Conductivity (at 25c), uMhos	Missing	230	800	440	840	08/01/01	RJH	SM2510B
Temperature, °C	Missing	21	20	23	19	08/01/01	RJH	SM2550B
Static Water Level, Feet		3.96	6.59	7.25	8.73	08/01/01	RJH	
Well Depth, feet		13.96	15.36	16.23	26.43	08/01/01	RJH	

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 02/01/01
DATE REPORTED : 02/21/01

REVIEWED BY:

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units	7.5					02/06/01	RJH	EPA150.1
		6.1	6.2	6.4		02/01/01	RJH	EPA150.1
					6.2	02/06/01	RJH	EPA150.1
BOD, mg/l	13	2.8	8.5	3.2	6.2	02/01/01	TRB	SM5210B
COD, mg/l	101	61	68	82	41	02/06/01	TRB	HACH8000
Nitrate Nitrogen, mg/l	<0.04	1.12	<0.04	0.04		02/02/01	NNR	EPA353.2
					<0.04	02/07/01	NNR	EPA353.2
Total Organic Carbon, mg/l	32.98	22.09	19.88	10.24	10.85	02/05/01	SEJ	EPA415.1
Chloride, mg/l	19	19	10	8	13	02/07/01	CDH	SM4500-CLB
Fluoride, mg/l	<0.10	<0.10	<0.10	<0.10	<0.10	02/02/01	CDH	SM4500-FC
Total Dissolved Residue, mg/l	1160	587	249	391	447	02/02/01	TRB	EPA160.1
Arsenic, mg/l	<0.010	<0.010	<0.010	<0.010	0.011	02/12/01	MLH	EPA7060
Barium, mg/l	<0.500	<0.500	<0.500	<0.500		02/06/01	LFJ	EPA6010B
					<0.500	02/08/01	LFJ	EPA6010B
Cadmium, mg/l	<0.001	<0.001				02/12/01	MLH	EPA7131
			<0.001	<0.001	<0.001	02/16/01	MLH	EPA7131
Copper, mg/l	<0.200	<0.200	<0.200	<0.200	<0.200	02/14/01	WTH	EPA7210
Total Chromium, mg/l	<0.010	<0.010	0.059	0.113		02/06/01	LFJ	EPA6010B
					0.011	02/07/01	LFJ	EPA6010B
Iron, mg/l	3.636	18.720	65.440	46.570		02/14/01	WTH	EPA236.1
					30.396	02/07/01	LFJ	EPA6010B
Manganese, mg/l	0.302	1.331	0.633	0.145		02/06/01	LFJ	EPA6010B
					2.291	02/07/01	LFJ	EPA6010B
Lead, mg/l	<0.010	<0.010	0.024	0.038	<0.010	02/14/01	MLH	EPA7421
Mercury, mg/l	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	02/06/01	WTH	EPA7470
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	02/09/01	MLH	EPA7740
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	02/06/01	LFJ	EPA6010B
Zinc, mg/l	<0.050	<0.050	0.119	0.113		02/06/01	LFJ	EPA6010B
					<0.050	02/09/01	LFJ	EPA6010B
Total Organic Halides, mg/l	0.038	0.035	0.032	0.034	0.027	02/05/01	SEJ	SM506
Sulfate, mg/l	75.4	5.6	7.6	21.3	24.0	02/05/01	TRB	EPA375.4
Conductivity (at 25c), uMhos	1600	1500	290	360	800	02/01/01	RJH	SM2510B
Temperature, °C	10	15	11	15	17	02/01/01	RJH	SM2550B

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Environment 1, Incorporated

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 08/27/02
DATE REPORTED : 09/11/02

REVIEWED BY:

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units	6.2	4.6	5.4	5.4	5.9	08/27/02	RJH	EPA150.1
Antimony, mg/l	<0.030	<0.030	<0.030	<0.030	<0.030	09/09/02	MLH	EPA7041
Arsenic, mg/l	<0.010	<0.010	<0.010	<0.010	0.013	09/03/02	MLH	EPA7060
Barium, mg/l	<0.500	<0.500	<0.500	<0.500	<0.500	09/04/02	LFJ	EPA6010B
Beryllium, mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	09/05/02	LFJ	EPA6010B
C[illegible]nium, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	09/09/02	MLH	EPA7131
[illegible], mg/l	<0.010	0.023	<0.010	<0.010	0.034	09/04/02	LFJ	EPA6010B
Copper, mg/l	<0.200	<0.200	<0.200	<0.200	<0.200	09/05/02	MLH	EPA7210
Total Chromium, mg/l	<0.010	0.015	<0.010	<0.005	<0.005	09/04/02	LFJ	EPA6010B
Lead, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	08/29/02	MLH	EPA7421
Nickel, mg/l	<0.050	<0.050				09/04/02	LFJ	EPA6010B
			<0.050	<0.050		09/05/02	LFJ	EPA6010B
					<0.050	09/04/02	LFJ	EPA6010B
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	09/04/02	MLH	EPA7740
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	09/04/02	LFJ	EPA6010B
Thallium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	09/04/02	MLH	EPA7841
Vanadium, mg/l	<0.040	<0.040	<0.040	<0.040	<0.040	09/04/02	LFJ	EPA6010B
Zinc, mg/l	<0.050	<0.050	<0.050	<0.050	<0.050	09/04/02	LFJ	EPA6010B
Sulfate, mg/l	123.4	<5.0	24.0	6.7	20.5	08/29/02	TRB	EPA375.4
Conductivity (at 25c), uMhos	1000	490	730	620	790	08/27/02	RJH	SM2510B
Temperature, °C	25	24	23	26	21	08/27/02	RJH	SM2550B
Static Water Level, Feet		5.78	10.15	8.82	10.12	08/27/02	RJH	
Well Depth, feet		13.96	15.36	16.23	26.43	08/27/02	RJH	

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 6017

ANALYST: CMT
DATE COLLECTED: 08/27/02
DATE ANALYZED: 08/28/02
DATE REPORTED: 09/11/02

REVIEWED BY:

PURGABLE HALOCARBONS
EPA METHOD 601

PARAMETERS, ug/l	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
2. Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00
3. Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00
4. Carbon Tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00
5. Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
6. Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
7. 2-Chloroethylvinyl Ether	<1.00	<1.00	<1.00	<1.00	<1.00
8. Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00
9. Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
10. Dibromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
11. 1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
12. 1,3-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
13. 1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
14. Dichlorodifluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
15. 1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
16. 1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
17. 1,1-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
18. trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
19. 1,2-Dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00
20. Cis-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
21. trans-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
22. Methylene Chloride	<1.00	<1.00	<1.00	<1.00	<1.00
23. 1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
24. Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
25. 1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
26. 1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
27. Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
28. Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
29. Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00

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Environment 1, Incorporated

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

RECEIVED
MAR 20 2002
By

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 02/19/02
DATE REPORTED : 03/13/02

REVIEWED BY:

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units	8.5	6.1	6.0	6.0	6.2	02/19/02	RJH	EPA150.1
Antimony, mg/l	<0.030	<0.030	<0.030	<0.030	<0.030	02/28/02	MLH	EPA7041
Arsenic, mg/l	<0.010	<0.010	<0.010	<0.010	0.011	03/01/02	MLH	EPA7060
Barium, mg/l	<0.500	<0.500	<0.500	<0.500	<0.500	02/25/02	LFJ	EPA6010B
Beryllium, mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	02/25/02	LFJ	EPA6010B
[illegible]mium, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	03/08/02	MLH	EPA7131
[illegible]alt, mg/l	<0.010	0.012	<0.010	<0.010	<0.010	02/25/02	LFJ	EPA6010B
Copper, mg/l	<0.200					02/26/02	MLH	EPA7210
		<0.200	<0.200	<0.200	<0.200	03/04/02	MLH	EPA7210
Total Chromium, mg/l	<0.010	0.012	<0.010	<0.010	<0.010	02/25/02	LFJ	EPA6010B
Lead, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	03/12/02	MLH	EPA7421
Nickel, mg/l	<0.050	<0.050	<0.050	<0.050	<0.050	02/26/02	LFJ	EPA6010B
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	03/06/02	MLH	EPA7740
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	02/26/02	LFJ	EPA6010B
Thallium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	03/11/02	MLH	EPA7841
Vanadium, mg/l	0.067	<0.040	<0.040	<0.040	<0.040	02/25/02	LFJ	EPA6010B
Zinc, mg/l	<0.000	<0.050	<0.050	<0.050	<0.050	02/25/02	LFJ	EPA6010B
Sulfate, mg/l	143.9	160.3	163.7	101.2	125.6	02/22/02	TRB	EPA375.4
Conductivity (at 25c), uMhos	2100	260	930	670	740	02/19/02	RJH	SM2510B
Temperature, °C	14	15	16	18	18	02/19/02	RJH	SM2550B
Static Water Level, Feet		4.48	9.53	7.96	9.50	02/19/02	RJH	
Well Depth, feet		13.96	15.36	16.23	26.43	02/19/02	RJH	

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Environment 1, Incorporated

Drinking Water ID: 3771
Wastewater ID: 10

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 6017

ANALYST: CMT
DATE COLLECTED: 02/19/02
DATE ANALYZED: 02/26/02
DATE REPORTED: 03/13/02

REVIEWED BY: _____

PURGABLE HALOCARBONS
EPA METHOD 601

PARAMETERS, ug/l	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
2. Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00
3. Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00
4. Carbon Tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00
5. Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
6. Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
7. 2-Chloroethylvinyl Ether	<1.00	<1.00	<1.00	<1.00	<1.00
8. Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00
9. Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
10. Dibromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
11. 1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
12. 1,3-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
13. 1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
14. Dichlorodifluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
15. 1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
16. 1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
17. 1,1-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
18. trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
19. 1,2-Dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00
20. Cis-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
21. trans-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
22. Methylene Chloride	<1.00	<1.00	<1.00	<1.00	<1.00
23. 1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
24. Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
25. 1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
26. 1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
27. Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
28. Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
29. Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00

2/4/11

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 02/24/03
DATE REPORTED : 03/28/03

REVIEWED BY:

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units	7.9	6.4	6.8	6.4	6.7	02/24/03	RJH	EPA150.1
Antimony, mg/l	<0.030	<0.030	<0.030	<0.030	<0.030	03/05/03	MLH	EPA7041
Arsenic, mg/l	<0.010	0.019	<0.010	<0.010	0.015	03/26/03	MLH	EPA7060
Barium, mg/l	<0.500	<0.500	<0.500	<0.500	<0.500	03/17/03	LFJ	EPA6010B
Beryllium, mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	03/17/03	LFJ	EPA6010B
Cadmium, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	03/19/03	MLH	EPA7131
Cobalt, mg/l	<0.010	0.067	<0.010	<0.010	0.031	03/17/03	LFJ	EPA6010B
Copper, mg/l	<0.200					03/27/03	LFJ	EPA6010B
		<0.200	<0.200	0.049		03/21/03	LFJ	EPA6010B
					<0.200	03/17/03	LFJ	EPA6010B
Total Chromium, mg/l	<0.010	0.096	<0.010	<0.010	<0.010	03/17/03	LFJ	EPA6010B
Lead, mg/l	<0.005	0.066	<0.005	<0.005	<0.005	03/27/03	MLH	EPA7421
Nickel, mg/l	<0.050	<0.050	<0.050	<0.050	<0.050	03/17/03	LFJ	EPA6010B
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	03/17/03	MLH	EPA7740
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	03/17/03	LFJ	EPA6010B
Thallium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	03/07/03	MLH	EPA7841
Vanadium, mg/l	0.053	0.177	<0.040	<0.040	<0.040	03/17/03	LFJ	EPA6010B
Zinc, mg/l	<0.050	0.227	<0.050	<0.050	<0.050	03/17/03	LFJ	EPA6010B
Sulfate, mg/l	179.8	<5.0	45.8	32.2	26.0	02/28/03	TRB	EPA375.4
Conductivity (at 25c), uMhos	3150	282	1113	907	767	02/24/03	RJH	SM2510B
Temperature, °C	13	11	14	17	17	02/24/03	RJH	SM2550B
Static Water Level, Feet		4.10	9.20	7.57	9.22	02/24/03	RJH	
Well Depth, feet		13.96	15.36	16.23	26.43	02/24/03	RJH	

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 6017

ANALYST: CMT
DATE COLLECTED: 02/24/03
DATE ANALYZED: 03/06/03
DATE REPORTED: 03/28/03

REVIEWED BY:

PURGABLE HALOCARBONS
EPA METHOD 601

PARAMETERS, ug/l	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
2. Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00
3. Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00
4. Carbon Tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00
5. Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
6. Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
7. 2-Chloroethylvinyl Ether	<1.00	<1.00	<1.00	<1.00	<1.00
8. Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00
9. Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
10. Dibromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
11. 1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
12. 1,3-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
13. 1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
14. Dichlorodifluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
15. 1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
16. 1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
17. 1,1-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
18. trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
19. 1,2-Dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00
20. Cis-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
21. trans-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
22. Methylene Chloride	<1.00	<1.00	<1.00	<1.00	<1.00
23. 1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
24. Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
25. 1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
26. 1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
27. Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
28. Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
29. Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00

2/5/11

Environment 1, Incorporated

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 08/26/03
DATE REPORTED : 10/28/03

REVIEWED BY:

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units	6.8	6.2	6.4	6.3	6.6	08/26/03	RJH	EPA150.1
Antimony, mg/l	<0.030	<0.030	<0.030	<0.030	<0.030	09/23/03	WNG	EPA7041
Arsenic, mg/l	0.014	<0.010	<0.010	<0.010	0.010	09/19/03	WNG	EPA7060
Barium, mg/l	<0.500	<0.500	<0.500	<0.500	<0.500	09/17/03	LFJ	EPA200.7
Beryllium, mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	09/17/03	LFJ	EPA200.7
[illegible]ium, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	09/24/03	WNG	EPA7131
[illegible]lt, mg/l	<0.010	0.018	<0.010	<0.010	0.033	09/17/03	LFJ	EPA200.7
Copper, mg/l	<0.200	<0.200	<0.200	<0.200	<0.200	09/17/03	LFJ	EPA200.7
Total Chromium, mg/l	<0.010	0.039	<0.010	<0.010	<0.010	09/17/03	LFJ	EPA200.7
Lead, mg/l	0.016	<0.010	<0.010	<0.010	<0.010	09/23/03	WNG	EPA7421
Nickel, mg/l	<0.050	<0.050	<0.050	<0.050	<0.050	09/17/03	LFJ	EPA200.7
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	09/24/03	WNG	EPA7740
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	09/17/03	LFJ	EPA200.7
Thallium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	09/17/03	WNG	EPA7841
Vanadium, mg/l	<0.040	0.526	<0.040	<0.040	<0.040	09/17/03	LFJ	EPA200.7
Zinc, mg/l	<0.050	0.069	<0.050	<0.050	<0.050	09/17/03	LFJ	EPA200.7
Sulfate, mg/l	26.2	30.5	<5.0	<5.0	30.3	09/15/03	TRB	EPA375.4
Conductivity (at 25c), uMhos	1110	268	971	598	743	08/26/03	RJH	SM2510B
Temperature, °C	23	23	22	25	19	08/26/03	RJH	SM2550B
Static Water Level, Feet		4.24	9.05	6.98	9.02	08/26/03	RJH	
Well Depth, feet		13.96	15.36	16.23	26.43	08/26/03	RJH	

Environment 1, Incorporated

Drinking Water ID: 377
Wastewater ID: 10

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 6017

ANALYST: MKB
DATE COLLECTED: 08/26/03
DATE ANALYZED: 09/09/03
DATE REPORTED: 10/28/03

REVIEWED BY:

PURGABLE HALOCARBONS
EPA METHOD 601

PARAMETERS, ug/l	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
2. Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00
3. Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00
4. Carbon Tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00
5. Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
6. Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
7. 2-Chloroethylvinyl Ether	<1.00	<1.00	<1.00	<1.00	<1.00
8. Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00
9. Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
10. Dibromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
11. 1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
12. 1,3-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
13. 1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
14. Dichlorodifluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
15. 1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
16. 1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
17. 1,1-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
18. trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
19. 1,2-Dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00
20. Cis-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
21. trans-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
22. Methylene Chloride	<1.00	<1.00	<1.00	<1.00	<1.00
23. 1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
24. Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
25. 1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
26. 1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
27. Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
28. Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
29. Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00

2/5/11

Environment 1, Incorporated

BOX 7085, 116 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 02/02/04
DATE REPORTED : 02/25/04

REVIEWED BY:

PARAMETERS	Leac. Canal	ows1	ows2	ows3	owd1	Analysis Date	Analyst	Method Code
PH (field measurement), Units	8.0	6.5	6.8	6.5	6.7	02/02/04	RJH	EPA150.1
Antimony, mg/l	<0.030	<0.030	<0.030	<0.030	<0.030	02/10/04	CMF	EPA7041
Arsenic, mg/l	<0.010	<0.010	<0.010	<0.010	0.014	02/06/04	CMF	EPA7060
Barium, mg/l	<0.500	<0.500	<0.500	<0.500	<0.500	02/09/04	WNG	EPA200.7
Beryllium, mg/l	<0.002					02/20/04	WNG	EPA200.7
[illegible]		<0.002	<0.002	<0.002	<0.002	02/16/04	WNG	EPA200.7
[illegible]ium, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	02/16/04	CMF	EPA7131
Cobalt, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	02/16/04	WNG	EPA200.7
Copper, mg/l	<0.200	<0.200	<0.200	<0.200	<0.200	02/04/04	AEL	EPA7210
Total Chromium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	02/09/04	WNG	EPA200.7
Lead, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	02/09/04	CMF	EPA7421
Nickel, mg/l	<0.050	<0.050	<0.050	<0.050	<0.050	02/09/04	WNG	EPA200.7
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	02/11/04	CMF	EPA7740
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	02/09/04	WNG	EPA200.7
Thallium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	02/23/04	CMF	EPA7841
Vanadium, mg/l	<0.040	<0.040	<0.040	<0.040	<0.040	02/09/04	WNG	EPA200.7
Zinc, mg/l	<0.050	<0.050	<0.050	<0.050	<0.050	02/09/04	WNG	EPA200.7
Sulfate, mg/l	<5.0	5.2	23.6	<5.0	21.0	02/06/04	TRB	EPA375.4
Conductivity (at 25c), uMhos	3660	303	858	743	730	02/02/04	RJH	SM2510B
Temperature, °C	2	11	15	18	17	02/02/04	RJH	SM2550B
Static Water Level, Feet		4.20	9.58	7.94	9.55	02/02/04	RJH	
Well Depth, feet		13.96	15.36	16.23	26.43	02/02/04	RJH	

Drinking Water ID: 37715
Wastewater ID: 10

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 6017

ANALYST: MKB
DATE COLLECTED: 02/02/04
DATE ANALYZED: 02/04/04
DATE REPORTED: 02/25/04

REVIEWED BY:

PURGABLE HALOCARBONS
EPA METHOD 601

PARAMETERS, ug/l	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
2. Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00
3. Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00
4. Carbon Tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00
5. Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
6. Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
7. 2-Chloroethylvinyl Ether	<1.00	<1.00	<1.00	<1.00	<1.00
8. Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00
9. Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
10. Dibromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
11. 1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
12. 1,3-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
13. 1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
14. Dichlorodifluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
15. 1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
16. 1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
17. 1,1-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
18. trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
19. 1,2-Dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00
20. Cis-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
21. trans-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
22. Methylene Chloride	<1.00	<1.00	<1.00	<1.00	<1.00
23. 1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
24. Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
25. 1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
26. 1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
27. Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
28. Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
29. Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00

2/5/11

Environment 1, Incorporated

P.O. BOX 1174 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-8206
FAX (252) 756-0033

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

RECEIVED
SEP 13 2004
BY:

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 08/19/04
DATE REPORTED : 09/07/04

REVIEWED BY:

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units	7.5	6.3	6.6	6.4	6.7	08/19/04	RJH	EPA150.1
Antimony, mg/l	<0.030	<0.030	<0.030	<0.030	<0.030	08/26/04	CMF	EPA204.2
Arsenic, mg/l	<0.010	<0.010	<0.010	<0.010	0.015	08/31/04	CMF	EPA206.2
Barium, mg/l	<0.500	<0.500	<0.500	<0.500	<0.500	08/25/04	LFJ	EPA200.7
Beryllium, mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	08/25/04	LFJ	EPA200.7
[illegible]ium, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	09/01/04	CMF	EPA213.2
[illegible]t, mg/l	<0.010	0.018	<0.010	<0.010	0.033	08/25/04	LFJ	EPA200.7
Copper, mg/l	<0.200	<0.200	<0.200	<0.200	<0.200	08/26/04	ADD	EPA220.1
Total Chromium, mg/l	0.012	0.037	<0.010	<0.010	0.012	08/25/04	LFJ	EPA200.7
Lead, mg/l	<0.010	0.035	<0.010	<0.010	<0.010	08/30/04	CMF	EPA239.2
Nickel, mg/l	<0.050	<0.050	<0.050	<0.050	<0.050	08/25/04	LFJ	EPA200.7
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	09/02/04	CMF	EPA270.2
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	08/25/04	LFJ	EPA200.7
Thallium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	09/03/04	CMF	EPA279.2
Vanadium, mg/l	<0.040	0.057	<0.040	<0.040	<0.040	08/25/04	LFJ	EPA200.7
Zinc, mg/l	0.018	0.082	<0.050	<0.050	<0.050	08/25/04	ADD	EPA7950
Sulfate, mg/l	96.4	<5.0	67.1	12.0	22.7	08/23/04	TRB	EPA375.4
Conductivity (at 25c), uMhos	1022	238	1082	639	753	08/19/04	RJH	SM2510B
Temperature, °C	35	23	22	25	19	08/19/04	RJH	SM2550B
Static Water Level, Feet		3.80	8.72	7.17	8.72	08/19/04	RJH	
Well Depth, feet		13.96	15.36	16.23	26.43	08/19/04	RJH	

Environment 1, Incorporated

Drinking Water ID: 37
Wastewater ID: 1

BOX 7085 114 CANMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6203
FAX (252) 756-0653

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 6017

ANALYST: MKB
DATE COLLECTED: 08/19/04
DATE ANALYZED: 08/25/04
DATE REPORTED: 09/07/04

REVIEWED BY:

PURGABLE HALOCARBONS
EPA METHOD 601

PARAMETERS, ug/l	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
2. Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00
3. Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00
4. Carbon Tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00
5. Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
6. Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
7. 2-Chloroethylvinyl Ether	<1.00	<1.00	<1.00	<1.00	<1.00
8. Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00
9. Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
10. Dibromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
11. 1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
12. 1,3-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
13. 1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
14. Dichlorodifluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
15. 1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
16. 1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
17. 1,1-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
18. trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
19. 1,2-Dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00
20. Cis-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
21. trans-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
22. Methylene Chloride	<1.00	<1.00	<1.00	<1.00	<1.00
23. 1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
24. Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
25. 1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
26. 1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
27. Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
28. Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
29. Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00

2/5/11

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 6017

ANALYST: MKB
DATE COLLECTED: 02/09/05
DATE ANALYZED: 02/21/05
DATE REPORTED: 02/24/05

REVIEWED BY:

PURGABLE HALOCARBONS
EPA METHOD 601

PARAMETERS, ug/l	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
2. Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00
3. Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00
4. Carbon Tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00
5. Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
6. Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
7. 2-Chloroethylvinyl Ether	<1.00	<1.00	<1.00	<1.00	<1.00
8. Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00
9. Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
10. Dibromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
11. 1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
12. 1,3-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
13. 1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
14. Dichlorodifluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
15. 1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
16. 1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
17. 1,1-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
18. trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
19. 1,2-Dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00
20. Cis-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
21. trans-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
22. Methylene Chloride	<1.00	<1.00	<1.00	<1.00	<1.00
23. 1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
24. Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
25. 1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
26. 1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
27. Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
28. Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
29. Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00

2/5/11

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 6017

ANALYST: MKB
DATE COLLECTED: 08/26/05
DATE ANALYZED: 09/09/05
DATE REPORTED: 09/14/05

REVIEWED BY:

PURGABLE HALOCARBONS
EPA METHOD 601

PARAMETERS, ug/l	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
2. Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00
3. Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00
4. Carbon Tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00
5. Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
6. Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
7. 2-Chloroethylvinyl Ether	<1.00	<1.00	<1.00	<1.00	<1.00
8. Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00
9. Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
10. Dibromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
11. 1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
12. 1,3-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
13. 1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
14. Dichlorodifluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
15. 1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
16. 1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
17. 1,1-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
18. trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
19. 1,2-Dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00
20. Cis-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
21. trans-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
22. Methylene Chloride	<1.00	<1.00	<1.00	<1.00	<1.00
23. 1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
24. Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
25. 1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
26. 1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
27. Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
28. Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
29. Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00

2/5/11

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

RECEIVED
MAR 14 2005
BY:

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 02/09/05
DATE REPORTED : 02/24/05

REVIEWED BY: _____

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units	8.2	6.4	6.9	6.3	6.7	02/09/05	RJH	EPA150.1
Antimony, mg/l	<0.030	<0.030	<0.030	<0.030	<0.030	02/17/05	CMF	EPA204.2
Arsenic, mg/l	<0.010	<0.010	<0.010	<0.010	0.016	02/15/05	CMF	EPA206.2
Barium, mg/l	<0.500	<0.500	<0.500	<0.500	<0.500	02/15/05	LFJ	EPA200.7
[illegible]um, mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	02/15/05	LFJ	EPA200.7
C[illegible]m, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	02/16/05	CMF	EPA213.2
Cobalt, mg/l	<0.010	0.028	<0.010	<0.010	0.027	02/15/05	LFJ	EPA200.7
Copper, mg/l	<0.200	<0.200	<0.200	<0.200	<0.200	02/17/05	ADD	EPA220.1
Total Chromium, mg/l	0.015	0.053	<0.010	<0.010	<0.010	02/15/05	LFJ	EPA200.7
Lead, mg/l	<0.010	0.023	<0.010	<0.010	<0.010	02/21/05	CMF	EPA239.2
Nickel, mg/l	<0.050	<0.050	<0.050	<0.050	<0.050	02/15/05	LFJ	EPA200.7
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	02/18/05	CMF	EPA270.2
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	02/15/05	LFJ	EPA200.7
Thallium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	02/22/05	CMF	EPA279.2
Vanadium, mg/l	<0.040	0.084	<0.040	<0.040	<0.040	02/15/05	LFJ	EPA200.7
Zinc, mg/l	<0.050	0.102	<0.050	<0.050	<0.050	02/14/05	ADD	EPA289.1
Sulfate, mg/l	217.6	25.5	46.7	<5.0	20.2	02/14/05	TRB	EPA375.4
Conductivity (at 25c), uMhos	1875	976	269	889	704	02/09/05	RJH	SM2510B
Temperature, °C	11	13	15	19	18	02/09/05	RJH	SM2550B
Static Water Level, Feet		4.05	9.32	7.78	9.27	02/09/05	RJH	
Well Depth, feet		13.96	15.36	16.23	26.43	02/09/05	RJH	

THIS IS A CORRECTED COPY OF PREVIOUSLY REPORTED DATA

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 6017

ANALYST: CHS
DATE COLLECTED: 02/02/06
DATE ANALYZED: 02/13/06
DATE REPORTED: 02/20/06

REVIEWED BY:

PURGABLE HALOCARBONS
EPA METHOD 601

PARAMETERS, ug/l	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
2. Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00
3. Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00
4. Carbon Tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00
5. Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
6. Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
7. 2-Chloroethylvinyl Ether	<1.00	<1.00	<1.00	<1.00	<1.00
8. Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00
9. Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
10. Dibromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
11. 1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
12. 1,3-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
13. 1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
14. Dichlorodifluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
15. 1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
16. 1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
17. 1,1-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
18. trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
19. 1,2-Dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00
20. Cis-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
21. trans-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
22. Methylene Chloride	<1.00	<1.00	<1.00	<1.00	<1.00
23. 1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
24. Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
25. 1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
26. 1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
27. Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
28. Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
29. Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 08/26/05
DATE REPORTED : 09/14/05

REVIEWED BY:

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units	8.1	6.3	6.7	6.3	6.8	08/26/05	RJH	EPA150.1
Antimony, mg/l	<0.030	<0.030	<0.030	<0.030	<0.030	09/06/05	LFJ	EPA200.8
Arsenic, mg/l	<0.010	<0.010	<0.010	0.011	0.012	09/06/05	LFJ	EPA200.8
Barium, mg/l	<0.500	<0.500				09/06/05	LFJ	EPA200.8
			<0.500			09/07/05	LFJ	EPA200.8
				<0.500	<0.500	09/06/05	LFJ	EPA200.8
Beryllium, mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	09/06/05	LFJ	EPA200.8
Cadmium, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	09/06/05	LFJ	EPA200.8
Cobalt, mg/l	<0.010	<0.010	<0.010	<0.010	0.024	09/06/05	LFJ	EPA200.8
Copper, mg/l	<0.200	<0.200	<0.200	<0.200	<0.200	09/06/05	LFJ	EPA200.8
Total Chromium, mg/l	<0.010	0.013	<0.010	<0.010	<0.010	09/06/05	LFJ	EPA200.8
Lead, mg/l	<0.010	0.021	<0.010	<0.010	<0.010	09/06/05	LFJ	EPA200.8
Nickel, mg/l	<0.050	<0.050	<0.050	<0.050	<0.050	09/06/05	LFJ	EPA200.8
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	09/06/05	LFJ	EPA200.8
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	09/06/05	LFJ	EPA200.8
Thallium, mg/l	<0.010					09/07/05	LFJ	EPA200.8
		<0.010	<0.010	<0.010	<0.010	09/06/05	LFJ	EPA200.8
Vanadium, mg/l	<0.040	<0.040	<0.040	<0.040	<0.040	09/06/05	LFJ	EPA200.8
Zinc, mg/l	<0.050	0.055	<0.050	<0.050	<0.050	09/06/05	LFJ	EPA200.8
Sulfate, mg/l	<5.0	<5.0	13.4	7.7	20.3	08/29/05	TRB	EPA375.4
Conductivity (at 25c), uMhos	3770	220	701	902	722	08/26/05	RJH	SM2510B
Temperature, °C	23	22	21	26	20	08/26/05	RJH	SM2550B
Static Water Level, feet		4.68	9.30	7.65	9.25	08/26/05	RJH	
Well Depth, feet		13.96	15.36	16.23	26.43	08/26/05	RJH	

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P. O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 6017

ANALYST: MRJ
DATE COLLECTED: 08/01/06
DATE ANALYZED: 08/14/06
DATE REPORTED: 08/16/06

REVIEWED BY:

PURGABLE HALOCARBONS
EPA METHOD 601

PARAMETERS, ug/l	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
2. Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00
3. Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00
4. Carbon Tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00
5. Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
6. Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
7. 2-Chloroethylvinyl Ether	<1.00	<1.00	<1.00	<1.00	<1.00
8. Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00
9. Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
10. Dibromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
11. 1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
12. 1,3-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
13. 1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
14. Dichlorodifluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
15. 1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
16. 1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
17. 1,1-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
18. trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
19. 1,2-Dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00
20. Cis-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
21. trans-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
22. Methylene Chloride	<1.00	<1.00	<1.00	<1.00	<1.00
23. 1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
24. Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
25. 1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
26. 1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
27. Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
28. Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
29. Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 02/02/06
DATE REPORTED : 02/20/06

REVIEWED BY:

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units	8.0	6.5	6.9	6.3	6.9	02/02/06	RJH	EPA150.1
Antimony, mg/l	<0.030	<0.030	<0.030	<0.030	<0.030	02/13/06	CMF	EPA200.8
Arsenic, mg/l	<0.010	<0.010	0.025	<0.010	0.013	02/13/06	CMF	EPA200.8
Barium, mg/l	<0.500	<0.500	<0.500	<0.500	<0.500	02/13/06	CMF	EPA200.8
B[illegible]lium, mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	02/13/06	CMF	EPA200.8
[illegible]um, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	02/13/06	CMF	EPA200.8
Cobalt, mg/l	<0.010	<0.010	<0.010	<0.010	0.022	02/13/06	CMF	EPA200.8
Copper, mg/l	<0.200	<0.200	<0.200	<0.200	<0.200	02/13/06	CMF	EPA200.8
Total Chromium, mg/l	<0.010	0.014	<0.010	<0.010	<0.010	02/13/06	CMF	EPA200.8
Lead, mg/l	<0.010	0.016	<0.010	<0.010	<0.010	02/13/06	CMF	EPA200.8
Nickel, mg/l	<0.050	<0.050	<0.050	<0.050	<0.050	02/13/06	CMF	EPA200.8
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	02/13/06	CMF	EPA200.8
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	02/13/06	CMF	EPA200.8
Thallium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	02/13/06	CMF	EPA200.8
Vanadium, mg/l	<0.040	<0.040	0.113	<0.040	<0.040	02/13/06	CMF	EPA200.8
Zinc, mg/l	<0.050	0.051	<0.050	<0.050	<0.050	02/13/06	CMF	EPA200.8
Sulfate, mg/l	38.2	14.2	21.0	<5.0	35.4	02/03/06	TRB	EPA375.4
Conductivity (at 25c), uMhos	1459	286	1001	937	740	02/02/06	RJH	SM2510B
Temperature, °C	10	13	16	19	18	02/02/06	RJH	SM2550B
Static Water Level, feet		3.75	8.92	7.42	8.84	02/02/06	RJH	
Well Depth, feet		13.96	15.36	16.23	26.43	02/02/06	RJH	

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

BOX 7085, 114 OAKMONT DRIVE
ENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 6017

ANALYST: MRJ
DATE COLLECTED: 02/22/07
DATE ANALYZED: 03/08/07
DATE REPORTED: 04/05/07

REVIEWED BY:

PURGABLE HALOCARBONS
EPA METHOD 601

PARAMETERS, ug/l	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Bromodichloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
2. Bromoform	<1.00	<1.00	<1.00	<1.00	<1.00
3. Bromomethane	<1.00	<1.00	<1.00	<1.00	<1.00
4. Carbon Tetrachloride	<1.00	<1.00	<1.00	<1.00	<1.00
5. Chlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
6. Chloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
7. 2-Chloroethylvinyl Ether	<1.00	<1.00	<1.00	<1.00	<1.00
8. Chloroform	<1.00	<1.00	<1.00	<1.00	<1.00
9. Chloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
10. Dibromochloromethane	<1.00	<1.00	<1.00	<1.00	<1.00
11. 1,2-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
12. 1,3-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
13. 1,4-Dichlorobenzene	<1.00	<1.00	<1.00	<1.00	<1.00
14. Dichlorodifluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
15. 1,1-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
16. 1,2-Dichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
17. 1,1-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
18. trans-1,2-Dichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
19. 1,2-Dichloropropane	<1.00	<1.00	<1.00	<1.00	<1.00
20. Cis-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
21. trans-1,3-Dichloropropene	<1.00	<1.00	<1.00	<1.00	<1.00
22. Methylene Chloride	<1.00	<1.00	<1.00	<1.00	<1.00
23. 1,1,2,2-Tetrachloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
24. Tetrachloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
25. 1,1,1-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
26. 1,1,2-Trichloroethane	<1.00	<1.00	<1.00	<1.00	<1.00
27. Trichloroethene	<1.00	<1.00	<1.00	<1.00	<1.00
28. Trichlorofluoromethane	<1.00	<1.00	<1.00	<1.00	<1.00
29. Vinyl Chloride	<1.00	<1.00	<1.00	<1.00	<1.00

2/5/11

Environment 1, Incorporated

REC'D AUG 21 2006

Weyerhaeuser

P. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 08/01/06
DATE REPORTED : 08/16/06

REVIEWED BY:

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units	8.2	6.7	6.5	6.3	6.6	08/01/06	RJH	EPA150.1
Antimony, mg/l	<0.030	<0.030	<0.030	<0.030	<0.030	08/03/06	LFJ	EPA200.8
Arsenic, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	08/03/06	LFJ	EPA200.8
Barium, mg/l	<0.500	<0.500	<0.500	<0.500	<0.500	08/03/06	LFJ	EPA200.8
Beryllium, mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	08/03/06	LFJ	EPA200.8
Cadmium, mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	08/03/06	LFJ	EPA200.8
[illegible]t, mg/l	<0.010	0.017	<0.010	<0.010	0.025	08/03/06	LFJ	EPA200.8
[illegible]er, mg/l	<0.200	<0.200	<0.200	<0.200	<0.200	08/03/06	LFJ	EPA200.8
Total Chromium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	08/03/06	LFJ	EPA200.8
Lead, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	08/03/06	LFJ	EPA200.8
Nickel, mg/l	<0.050	<0.050	<0.050	<0.050	<0.050	08/03/06	LFJ	EPA200.8
Selenium, mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	08/03/06	LFJ	EPA200.8
Silver, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	08/03/06	LFJ	EPA200.8
Thallium, mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	08/03/06	LFJ	EPA200.8
Vanadium, mg/l	<0.040	<0.040	<0.040	<0.040	<0.040	08/03/06	LFJ	EPA200.8
Zinc, mg/l	<0.050	<0.050	<0.050	<0.050	<0.050	08/03/06	LFJ	EPA200.8
Sulfate, mg/l	68.5	15.7	36.5	27.1	29.8	08/02/06	TRB	EPA375.4
Conductivity (at 25c), uMhos	1586	493	902	805	748	08/01/06	RJH	SM2510B
Temperature, °C	29	22	23	25	20	08/01/06	RJH	SM2550B
Static Water Level, feet		5.86	9.67	8.07	9.63	08/01/06	RJH	
Well Depth, feet		13.96	15.36	16.23	26.43	08/01/06	RJH	

OK

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 6017 A

ANALYST: MAO
DATE COLLECTED: 08/30/07
DATE REPORTED: 09/14/07

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	09/04/07 Leachate Canal	09/04/07 OWS1	09/10/07 OWS2	09/10/07 OWS3	09/10/07 OWD1
	Date Analyzed:						
1. Chloromethane	0.18	1.0	0.30 J	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	6.90 J	1.50 J	2.50 J	1.80 J	1.70 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U	--- U
trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	8.60 J	1.40 J	3.10 J	2.30 J	1.40 J
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	1.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	4.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	1.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
1,2-Dibromo-3-Chloropropane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

2/5/11

Environment 1, Incorporated

BOX 7085, 114 OAKMONT DRIVE
ENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

Drinking Water ID: 37715
Wastewater ID: 10

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 02/22/07
DATE REPORTED : 04/05/07

REVIEWED BY:

PARAMETERS	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units	8.1	6.5	6.8	6.2	6.7	02/22/07	RJH	SM4500HB
Sulfate, mg/l	59	<5.0	38	<5.0	30	03/02/07	TRB	EPA375.4
Antimony, ug/l	<6.0	<6.0	<6.0	<6.0	<6.0	03/01/07	LFJ	EPA200.8
Arsenic, ug/l	< 10	< 10	< 10	< 10	< 10	03/01/07	LFJ	EPA200.8
Barium, ug/l	< 100	< 100	< 100	< 100	< 100	03/01/07	LFJ	EPA200.8
Beryllium, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	03/01/07	LFJ	EPA200.8
[illegible]nium, ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	03/01/07	LFJ	EPA200.8
[illegible]alt, ug/l	< 10	< 10	< 10	< 10	< 10	03/01/07	LFJ	EPA200.8
Copper, ug/l	< 10	< 10	< 10	< 10	< 10	03/01/07	LFJ	EPA200.8
Total Chromium, ug/l	< 10	< 10	< 10	< 10	< 10	03/01/07	LFJ	EPA200.8
Lead, ug/l	< 10	< 10	< 10	< 10	< 10	03/01/07	LFJ	EPA200.8
Nickel, ug/l	< 50	< 50	< 50	< 50	< 50	03/01/07	LFJ	EPA200.8
Selenium, ug/l	< 10	< 10	< 10	< 10	< 10	03/01/07	LFJ	EPA200.8
Silver, ug/l	< 10	< 10	< 10	< 10	< 10	03/01/07	LFJ	EPA200.8
Thallium, ug/l	<5.0	<5.0	<5.0	<5.0	<5.0	03/01/07	LFJ	EPA200.8
Vanadium, ug/l	< 25	< 25	28	< 25	< 25	03/01/07	LFJ	EPA200.7
Zinc, ug/l	< 10	< 10	< 10	< 10	< 10	03/01/07	LFJ	EPA200.8
Conductivity (at 25c), uMhos	2320	383	1074	1049	766	02/22/07	RJH	SM2510B
Temperature, °C	14	13	15	17	16	02/22/07	RJH	SM2550B
Static Water Level, feet		4.03	9.29	7.12	9.25	02/22/07	RJH	
Well Depth, feet		13.96	14.36	16.23	26.43	02/22/07	RJH	

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 6017

ANALYST: MAO
DATE COLLECTED: 02/21/08
DATE ANALYZED: 02/29/08
DATE REPORTED: 03/14/08

Page: 1

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	2.90 J	3.40 J	2.60 J	5.70 J	3.50 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

2/5/4

Environment 1, Incorporated

REC'D SEP 25 2007

Drinking Water ID: 3777
Wastewater ID: 10

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 08/30/07
DATE REPORTED : 09/11/07

REVIEWED BY:

PARAMETERS	MDL	SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units			8.0	6.4	6.6	6.3	6.6	08/30/07	RJH	SM4500HB
Sulfate, mg/l	5.0	250.0	47.3 J	13.8 J	--- U	13.9 J	27.7 J	09/05/07	TRB	SM4500-SO4
Antimony, ug/l	0.05	6.0	0.2 J	--- U	--- U	--- U	--- U	09/07/07	CMF	EPA200.8
Arsenic, ug/l	0.47	10.0	1.7 J	2.2 J	2.2 J	2.0 J	4.6 J	09/07/07	CMF	EPA200.8
Barium, ug/l	0.04	100.0	22.4 J	136	44.9 J	80.1 J	108	09/07/07	CMF	EPA200.8
Beryllium, ug/l	0.08	1.0	--- U	--- U	--- U	--- U	--- U	09/07/07	CMF	EPA200.8
Cadmium, ug/l	0.06	1.0	--- U	0.2 J	0.1 J	0.1 J	0.1 J	09/07/07	CMF	EPA200.8
Cobalt, ug/l	0.41	10.0	0.8 J	1.0 J	7.6 J	--- U	26	09/07/07	CMF	EPA200.8
Copper, ug/l	0.20	10.0	5.0 J	0.8 J	2.3 J	--- U	--- U	09/07/07	CMF	EPA200.8
[illegible] Chromium, ug/l	0.24	10.0	1.7 J	0.9 J	1.4 J	--- U	--- U	09/07/07	CMF	EPA200[illegible]
[illegible] ug/l	0.07	10.0	0.3 J	0.4 J	0.2 J	--- U	--- U	09/07/07	CMF	EPA200[illegible]
[illegible]el, ug/l	0.66	50.0	6.9 J	3.1 J	1.5 J	2.1 J	6.5 J	09/07/07	CMF	EPA200.8
Selenium, ug/l	0.35	10.0	0.5 J	0.5 J	--- U	--- U	--- U	09/07/07	CMF	EPA200.8
Silver, ug/l	0.52	10.0	--- U	--- U	--- U	--- U	--- U	09/07/07	CMF	EPA200.8
Thallium, ug/l	0.07	5.0	--- U	--- U	--- U	--- U	0.8 J	09/07/07	CMF	EPA200.8
Vanadium, ug/l	0.42	25.0	12.8 J	10.3 J	4.9 J	1.7 J	--- U	09/07/07	CMF	EPA200.8
Zinc, ug/l	0.20	10.0	6.5 J	3.4 J	2.7 J	0.5 J	1.9 J	09/07/07	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	1184	294	752	785	824	08/30/07	RJH	SM2510B
Temperature, °C			26	22	22	24	20	08/30/07	RJH	SM2550B
Static Water Level, feet				5.62	9.90	8.71	9.87	08/30/07	RJH	
Well Depth, feet				13.96	15.36	16.23	26.43	08/30/07	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 6017

ANALYST: MAO
DATE COLLECTED: 08/05/08
DATE ANALYZED: 08/15/08
DATE REPORTED: 09/02/08

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Chloromethane	0.18	1.0	0.90 J	0.30 J	0.60 J	0.60 J	0.60 J
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	7.10 J	4.10 J	5.40 J	5.40 J	5.60 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	3.90 J	2.60 J	3.50 J	3.80 J	3.60 J
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

2/5/11

Environment 1, Incorporated

Drinking Water ID: 3771
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 02/21/08
DATE REPORTED : 03/14/08

REVIEWED BY:

PARAMETERS	MDL	SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units			7.9	6.3	6.8	6.1	6.8	02/21/08	RJH	SM4500HB
Sulfate, mg/l	5.0	250.0	72.4 J	--- U	190.6 J	30.8 J	37.7 J	02/25/08	TRB	SM4500-SO4
Antimony, ug/l	0.08	6.0	0.3 J	--- U	0.6 J	--- U	--- U	02/28/08	LFJ	EPA200.8
Arsenic, ug/l	0.07	10.0	0.6 J	3.6 J	0.3 J	8 J	3.5 J	02/28/08	LFJ	EPA200.8
Barium, ug/l	0.11	100.0	18.9 J	36.6 J	115	70.5 J	78.4 J	02/22/88	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	--- U	0.1 J	--- U	--- U	--- U	02/28/08	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	--- U	0.1 J	0.1 J	0.1 J	0.1 J	02/28/08	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	0.4 J	3.0 J	0.5 J	3.9 J	8.7 J	02/28/08	LFJ	EPA200.8
Copper, ug/l	0.05	10.0	1.7 J	1.0 J	1.9 J	4.1 J	0.4 J	02/28/08	LFJ	EPA200.8
Total Chromium, ug/l	0.11	10.0	--- U	1.8 J	0.2 J	--- U	--- U	02/28/08	LFJ	EPA200
Lead, ug/l	0.04	10.0	0.1 J	0.7 J	0.3 J	0.2 J	0.3 J	02/28/08	LFJ	EPA200
Nickel, ug/l	0.06	50.0	5.8 J	1.8 J	7.9 J	3.5 J	5.2 J	02/28/08	LFJ	EPA200.8
Selenium, ug/l	0.14	10.0	--- U	--- U	--- U	--- U	--- U	02/28/08	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	--- U	--- U	0.1 J	0.1 J	--- U	02/28/08	LFJ	EPA200.8
Thallium, ug/l	0.04	5.0	--- U	0.1 J	--- U	--- U	0.5 J	02/28/08	LFJ	EPA200.8
Vanadium, ug/l	0.07	25.0	8.4 J	7.9 J	23 J	3.2 J	1.1 J	02/28/08	LFJ	EPA200.8
Zinc, ug/l	0.04	10.0	3.7 J	3.7 J	3.6 J	3.4 J	3.4 J	02/28/08	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	1005	242	1379	693	727	02/21/08	RJH	SM2510B
Temperature, °C			6	9	11	14	14	02/21/08	RJH	SM2550B
Static Water Level, feet				3.83	9.00	7.40	9.10	02/21/08	RJH	
Well Depth, feet				13.96	14.36	16.23	26.43	02/21/08	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Scanned by	Date	Doc ID #
DCN	5/15/08	4521

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(i).
- In accordance with NC General Statutes Chapter 89C and 89E and NC Solid Waste Management Rules 15A NCAC 13B, be sure to affix a seal to the bottom of this page, when applicable.
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

WEYERHAEUSER CELLULOSE FIBERS FACILITY

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: DAVID F. GARDNER Phone: 252.633.7427

E-mail: dave.gardner@weyerhaeuser.com

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
WEYERHAEUSER CELLULOSE FIBERS	P.O. BOX 1391 NEW BERN, NC 28562	2502	NC 2L STD. NCGWP STD.	FEB. 21, 2008

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☒ Detection Monitoring ☐ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☐ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☐ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify)
☐ Other(specify)

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

DAVID F. GARDNER — Facility Representative Name (Print)
ENVIRONMENTAL MANAGER — Title
252.633.7427 — (Area Code) Telephone Number

David F. Gardner — Signature
March 19, 2008 — Date

Affix NC Licensed/ Professional Geologist/Engineer Seal here:

Revised 01/2007

Weyerhaeuser
The future is growing™

RECEIVED
MAR 20
SOLID WASTE

Weyerhaeuser Company
PO Box 1391
New Bern, NC 28562
David F. Gardner
Environmental and Security Manager
Office: (252) 633-7427
Cell: (252) 229-0982
FAX: (252) 633-7560
e-mail: dave.gardner@weyerhaeuser.com

March 19, 2008

Compliance Unit NCDENR-DWM
Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646
Attn: Irvin Lane

CERTIFIED MAIL
7005-2570-0001-8907-5549

Re; Groundwater Monitoring Data
Landfill # 2502
Craven County

To Whom It May Concern:

Please find enclosed a completed copy of the ***Environmental Monitoring Report Form*** and a completed ***Table of Values Which Exceed Established Standards and/or Exceed Reporting Levels*** for the Weyerhaeuser Cellulose Fiber Facility located in New Bern Craven County, NC.

Should you have any questions or comments concerning these data please feel free to contact me?

Sincerely,
David F. Gardner
David F. Gardner
Environmental Manager

J. Ashley
R. Brinson

Table of Values Which Exceed Established Standards
And/Or Exceed Reporting Levels

Facility Name: WEYERHAEUSER, NEW BERN (LANDFILL) Permit #: 2502 Lab ID# 6017

Location	Collection Date	Exceeds Std	Parameter	CAS #	Result, ug/l	NC 2L STD **	NC GWP STD **	NC 2B SWS **
OWS2	02/21/2008		Barium	7440-39-3	115	2000		

** Note: NC 2L STD = NC 2L Ground Water Standard
NC GWP STD = NC Solid Waste Groundwater Protection Standard
NC 2B SWS = NC 2B Surface Water Standard

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6200
FAX (252) 756-0633

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 02/21/08
DATE REPORTED : 03/14/08

REVIEWED BY:

PARAMETERS	MDL	SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units			7.9	6.3	6.8	6.1	6.8	02/21/08	RJH	SM4500HB
Sulfate, mg/l	5.0	250.0	72.4 J	--- U	190.6 J	30.8 J	37.7 J	02/25/08	TRB	SM4500-SO4
Antimony, ug/l	0.08	6.0	0.3 J	--- U	0.6 J	--- U	--- U	02/28/08	LFJ	EPA200.8
Arsenic, ug/l	0.07	10.0	0.6 J	3.6 J	0.8 J	8 J	3.5 J	02/28/08	LFJ	EPA200.8
Barium, ug/l	0.11	100.0	18.9 J	36.6 J	115	70.5 J	78.4 J	02/22/08	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	--- U	0.1 J	--- U	--- U	--- U	02/28/08	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	--- U	0.1 J	0.1 J	0.1 J	0.1 J	02/28/08	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	0.4 J	3.0 J	0.5 J	3.9 J	8.7 J	02/28/08	LFJ	EPA200.8
Copper, ug/l	0.05	10.0	1.7 J	1.0 J	1.9 J	4.1 J	0.4 J	02/28/08	LFJ	EPA200.8
Total Chromium, ug/l	0.11	10.0	--- U	1.8 J	0.2 J	--- U	--- U	02/28/08	LFJ	EPA200.8
Lead, ug/l	0.04	10.0	0.1 J	0.7 J	0.3 J	0.2 J	0.3 J	02/28/08	LFJ	EPA200.8
Nickel, ug/l	0.06	50.0	5.8 J	1.8 J	7.9 J	3.5 J	5.2 J	02/28/08	LFJ	EPA200.8
Selenium, ug/l	0.14	10.0	--- U	--- U	--- U	--- U	--- U	02/28/08	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	--- U	--- U	0.1 J	0.1 J	--- U	02/28/08	LFJ	EPA200.8
Thallium, ug/l	0.04	5.0	--- U	0.1 J	--- U	--- U	0.5 J	02/28/08	LFJ	EPA200.8
Vanadium, ug/l	0.07	25.0	8.4 J	7.9 J	23 J	3.2 J	1.1 J	02/28/08	LFJ	EPA200.8
Zinc, ug/l	0.04	10.0	3.7 J	3.7 J	3.6 J	3.4 J	3.4 J	02/28/08	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	1005	242	1379	693	727	02/21/08	RJH	SM2510B
Temperature, °C			6	9	11	14	14	02/21/08	RJH	SM2550B
Static Water Level, feet				3.83	9.00	7.40	9.10	02/21/08	RJH	
Well Depth, feet				13.96	14.36	16.23	26.43	02/21/08	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 6017

ANALYST: MAO
DATE COLLECTED: 02/21/08
DATE ANALYZED: 02/29/08
DATE REPORTED: 03/14/08

Page: 1

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Chloromethane	0.18	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	2.90 J	3.40 J	2.60 J	5.70 J	3.50 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	5.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environmen[illegible] Inc.
P.O. Box 708[illegible] 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF C[illegible]TODY RECORD

Page 1 of 1

CLIENT: 6017 **Week:** 6

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN NC 28560

(252) 633-7427

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Sulfate	Metals	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
								L2				L2	L2	L2
						P	P	P	P	P		G	G	G
						A	A	A	A	A		E	E	E
Leachate Canal 02	2/1/08	0931		6	6	G	G	G	G	G		G	G	G
OWS1 02	2/1/08	1006		9	6	G	G	G	G	G	G	G	G	G
OWS2 02	2/1/08	0921		11	6	G	G	G	G	G	G	G	G	G
OWS3 02	2/1/08	0951		14	6	G	G	G	G	G	G	G	G	G
OWD1 02	2/1/08	0904		14	6	G	G	G	G	G	G	G	G	G

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

PARAMETERS

A - NONE
B - HNO_3
C - H_2SO_4
D - NAOH
E - HCL
F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY: (Please Print)
N Hope for

SAMPLES RECEIVED IN LAB AT 2.6

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob Hope 02	2/1/08	[illegible]	2/1/08 2:32
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

Instructions for completing this form are on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

FORM #5

No 150140

Environment 1, Inc.

Sampled By ☑ Bob Hilgoe ☑ Bobby Fox Other:	Facility NEW BERN N.C.	Site ID 6017
	Project No.	Date (m/d/y) FEB 21 08

Site Description X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 38 ☐ °C ☑ °F Weather: CLEAR

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed:

x TOC Description:

TOC Stickup: 2.44 ft. above/below ground Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data

Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 13.96

x E-Tape, # 2 ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	0955	0955	0956	1003	1004	1006	
Depth to Water	3.83	3.83	3.83	3.91	3.94	3.95	
Tape Correction							
Water Level (WL)	3.83	3.83	3.83	3.91	3.94	3.95	
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data

Purge Depth: 3.83 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [13.96 (TD) - _____ (WL)] • [_____ (Well ID)]^2 • [_____ (Conversion Factor)] = 1.65 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	1.65	3.30	4.95					
Time (hh:mm; 24-hr clock)	1000	1003	1004					
pH (Temperature Corrected? ☐)	6.49	6.36	6.3				OAKTON	4.0/7.0/10.0 Buffers
Temperature, °C	9	8	9					
Dissolved Oxygen mg/L								
S Conductivity µS/cm	240	239	242				OAKTON	1413 498
Turbidity ☐ NTU								
Color/Tint	YES	YES	YES					
Odor	NO	NO	NO					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data

Sample Depth: 3.95 ☐ Grab ☐ Bailer X Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
GWS 1		022108	1006	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) H. Lnoe / Fox | Signature Bob H Lane

Environment 1, Inc.

Sampled By ☒ Bob Hilgoe ☒ Bobby Fox	Facility NEW BERN N.C.	Site ID 6017
Other:	Project No.	Date (m/d/y) FEB 21 08

Site Description X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 36 ☐ °C ☒ °F Weather: CLEAR

Well Locked? ☒ yes ☐ no Damaged/Repairs Needed:

x TOC Description:

TOC Stickup: 2.17 ft. above/below ground Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 14.36

x E-Tape, # 2 ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	0849	0849	0908	0915	0916	0921	
Depth to Water	9.00	9.00	9.00	9.49	9.51	9.52	
Tape Correction							
Water Level (WL)	9.00	9.00	9.00	9.49	9.51	9.52	
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 9.00 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [14.36 (TD) - _____ (WL)] • [_____ (Well ID)]^2 • [_____ (Conversion Factor)] = 0.87 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	0.87	1.74	2.61			(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	0912	0914	0915					
pH (Temperature Corrected? ☐)	6.85	6.85	6.8				OAKTON	4.0/7.0/10.0 Buffers
Temperature, °C	11	11	11					
Dissolved Oxygen mg/L								
S Conductivity µS/cm	1364	1371	1379				OAKTON	1413 498
Turbidity ☐ NTU								
Color/Tint	NC	NC	NC					
Odor	NO	NO	NO					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 9.52 ☐ Grab ☐ Bailer X Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
OWS 2		022108	0921	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) N. Lane / Fox | Signature Robert N Lane

Environment 1, Inc.

Sampled By ☑ Bob Hilgoe ☑ Bobby Fox Other:	Facility NEW BERN N.C. Project No.	Site ID 6017 Date (m/d/y) FEB 21 08

Site Description X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 38 ☐ °C ☑ °F Weather: CLEAR

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed:

x TOC Description:

TOC Stickup: 2.29 ft. above/below ground Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 16.23

x E-Tape, # 2 ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	0940	0940	0942	0946	0948	0951	
Depth to Water	7.40	7.40	7.40	9.69	9.93	9.95	
Tape Correction							
Water Level (WL)	7.40	7.40	7.40	9.69	9.93	9.95	
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 7.40 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [16.23 (TD) - _____ (WL)] • [_____ (Well ID)]^2 • [_____ (Conversion Factor)] = 1.44 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	1.44	2.88	4.32			(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	0944	0946	0948					
pH (Temperature Corrected? ☐)	6.19	6.14	6.1				OAKTON	4.0/7.0/10.0 Buffers
Temperature, °C	15	14	14					
Dissolved Oxygen mg/L								
S Conductivity µS/cm	675	692	693				OAKTON	1413 498
Turbidity ☐ NTU								
Color/Tint	NO	NO	NO					
Odor	NO	NO	NO					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 9.95 ☐ Grab ☐ Bailer X Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
OW53		022108	0951	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Environment 1, Inc.

Sampled By ☑ Bob Hligoe ☑ Bobby Fox Other:	Facility NEW BERN N.C. Project No.	Site ID 6017 Date (m/d/y) FEB 21 08

Site Description X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 36 ☐ °C ☑ °F Weather: CLEAR

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed:

x TOC Description:

TOC Stickup: 2.12 ft. above/below ground Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 26.43

x E-Tape, # 2 ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	0845	0845	0850	0859	0900	0904	
Depth to Water	9.10	9.10	9.10	10.04	10.21	10.22	
Tape Correction							
Water Level (WL)	9.10	9.10	9.10	10.04	10.21	10.22	
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 9.10 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [26.43 (TD) - _____ (WL)] • [_____ (Well ID)]^2 • [_____ (Conversion Factor)] = 2.53 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	2.53	5.66	8.49			(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	0855	0857	0900					
pH (Temperature Corrected? ☐)	6.89	6.86	6.8				OAKTON	4.0/7.0/10.0 Buffers
Temperature, °C	14	14	14					
Dissolved Oxygen mg/L								
S Conductivity µS/cm	729	735	727				OAKTON	1413 498
Turbidity ☐ NTU								
Color/Tint	NC	NC	NC					
Odor	NC	NC	NC					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 imperial gallon

Sample Data Sample Depth: 10.22 ☐ Grab ☐ Bailer X Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
OW01		02 21 08	0904	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Table of Values Which Exceed Established Standards And/Or Exceed Reporting Levels

Facility Name: WEYERHAEUSER, NEW BERN (LANDFILL) Permit #: 2502 Lab ID# 6017

Location	Collection Date	Exceeds Std	Parameter	CAS #	Result, ug/l	NC 2L STD **	NC GWP STD **	NC 2B SWS **
OWS2	02/21/2008		Barium	7440-39-3	115	2000		

** Note: NC 2L STD = NC 2L Ground Water Standard
NC GWP STD = NC Solid Waste Groundwater Protection Standard
NC 2B SWS = NC 2B Surface Water Standard

Environment 1, Incorporated

Drinking Water ID: 37910
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN, NC 28560

CLIENT ID: 6017

ANALYST: MAO
DATE COLLECTED: 02/20/09
DATE ANALYZED: 03/04/09
DATE REPORTED: 03/17/09

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Chloromethane	0.18	1.0	0.20 J	0.30 J	--- U	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	5.00 J	2.20 J	2.30 J	2.20 J	1.60 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	4.00 J	2.30 J	2.40 J	2.50 J	1.60 J
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

2/5/11

Environment 1, Incorporated

Drinking Water ID: 3771
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 08/05/08
DATE REPORTED : 09/02/08

REVIEWED BY:

PARAMETERS	MDL	Leachate SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units			7.8	6.3	6.7	6.3	6.7	08/05/08	RJH	SM4500HB
Sulfate, mg/l	5.0	250.0	--- U	9.5 J	137.3 J	36.0 J	36.4 J	08/11/08	TRB	SM4500-SO4
Antimony, ug/l	0.44	6.0	0.3 J	0.1 J	0.4 J	--- U	0.2 J	08/19/08	CMF	EPA200.8
Arsenic, ug/l	0.57	10.0	2.1 J	2.5 J	1.0 J	6.3 J	5.8 J	08/19/08	CMF	EPA200.8
Barium, ug/l	0.11	100.0	31.0 J	39.8 J	132	90.0 J	102	08/19/08	CMF	EPA200.8
Beryllium, ug/l	0.06	1.0	--- U	--- U	--- U	--- U	--- U	08/19/08	CMF	EPA200.8
Cadmium, ug/l	0.05	1.0	--- U	0.1 J	0.2 J	0.1 J	0.1 J	08/19/08	CMF	EPA200.8
Cobalt, ug/l	0.03	10.0	0.4 J	3.3 J	0.4 J	1.3 J	19	08/19/08	CMF	EPA200.8
Copper, ug/l	0.05	10.0	1.9 J	0.8 J	1.1 J	0.6 J	0.6 J	08/19/08	CMF	EPA200.8
Total Chromium, ug/l	0.11	10.0	0.6 J	1.3 J	0.3 J	0.4 J	--- U	08/19/08	CMF	EPA200
Lead, ug/l	0.32	10.0	0.1 J	0.3 J	0.2 J	0.1 J	0.1 J	08/19/08	CMF	EPA200
Nickel, ug/l	0.06	50.0	5.6 J	1.5 J	5.1 J	2.7 J	6.6 J	08/19/08	CMF	EPA200.8
Selenium, ug/l	0.51	10.0	0.3 J	--- U	0.3 J	--- U	0.2 J	08/19/08	CMF	EPA200.8
Silver, ug/l	0.04	10.0	--- U	--- U	--- U	--- U	0.2 J	08/19/08	CMF	EPA200.8
Thallium, ug/l	0.63	5.0	--- U	0.1 J	--- U	--- U	0.7 J	08/19/08	CMF	EPA200.8
Vanadium, ug/l	0.07	25.0	4.5 J	4.8 J	8.4 J	2.1 J	0.6 J	08/19/08	CMF	EPA200.8
Zinc, ug/l	0.04	10.0	7.8 J	5.6 J	5.3 J	5.6 J	7.3 J	08/19/08	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	871	278	1113	712	738	08/05/08	RJH	SM2510B
Temperature, °C			28	20	22	23	20	08/05/08	RJH	SM2550B
Static Water Level, feet				4.35	9.23	7.58	9.18	08/05/08	RJH	
Well Depth, feet				13.96	14.36	16.26	26.43	08/05/08	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER RD.
VANCEBORO, NC 28586

CLIENT ID: 6017

ANALYST: MAO
DATE COLLECTED: 08/11/09
DATE ANALYZED: 08/18/09
DATE REPORTED: 09/14/09

Page: 1

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Chloromethane	0.18	1.0	0.30 J	0.20 J	0.30 J	--- U	--- U
2. Vinyl Chloride	0.34	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.29	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	1.21	100.0	4.80 J	30.20 J	2.00 J	1.40 J	1.80 J
8. Iodomethane	0.12	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.14	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.14	1.0	--- U	--- U	--- U	--- U	--- U
rans-1,2-Dichloroethene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
,1-Dichloroethane	0.16	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.14	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	0.85	100.0	2.00 J	--- U	1.10 J	--- U	1.10 J
16. Bromochloromethane	0.11	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.13	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.11	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.13	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.12	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.17	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	0.68	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.13	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.14	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.20	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.00	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.14	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.13	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.13	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.14	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.48	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.17	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.16	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.11	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.16	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.06	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.13	5.0	--- U	--- U	--- U	--- U	--- U
,2-Dibromo-3-Chloropropane	0.26	13.0	--- U	--- U	--- U	--- U	--- U
crylonitrile	1.49	200.0	--- U	--- U	--- U	--- U	--- U
4. trans-1,4-Dichloro-2-Butene	0.14	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

2/5/11

Environment 1, Incorporated

Drinking Water ID: 3771
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. DAVE GARDNER
P.O. BOX 1391
NEW BERN ,NC 28560

DATE COLLECTED: 02/20/09
DATE REPORTED : 03/17/09

REVIEWED BY:

PARAMETERS	MDL	SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units			8.1	6.5	7.0	6.3	6.9	02/20/09	RJH	SM4500HB
Sulfate, mg/l	5.0	250.0	40.6 J	--- U	24.4 J	--- U	29.9 J	02/23/09	TRB	SM4500-SO4
Antimony, ug/l	0.08	6.0	0.7 J	--- U	0.3 J	--- U	--- U	02/26/09	LFJ	EPA200.8
Arsenic, ug/l	0.07	10.0	1.3 J	1.4 J	1.5 J	1.7 J	3.1 J	02/26/09	LFJ	EPA200.8
Barium, ug/l	0.11	100.0	38 J	39.7 J	93.3 J	72.3 J	79.1 J	02/26/09	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	--- U	--- U	--- U	--- U	--- U	02/26/09	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	--- U	0.1 J	0.1 J	0.1 J	--- U	02/26/09	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	1.2 J	4 J	0.7 J	0.8 J	9.7 J	02/26/09	LFJ	EPA200.8
Copper, ug/l	0.05	10.0	4.6 J	0.4 J	1.9 J	0.8 J	0.6 J	02/26/09	LFJ	EPA200.8
Total Chromium, ug/l	0.11	10.0	1.3 J	1 J	2.7 J	0.4 J	--- U	02/26/09	LFJ	EPA200
Lead, ug/l	0.04	10.0	0.4 J	0.2 J	1.6 J	0.2 J	0.1 J	02/26/09	LFJ	EPA200.
Nickel, ug/l	0.06	50.0	11.2 J	1.4 J	5.4 J	3.1 J	4.6 J	02/26/09	LFJ	EPA200.8
Selenium, ug/l	0.14	10.0	0.3 J	0.2 J	0.3 J	--- U	--- U	02/26/09	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	0.1 J	0.1 J	0.1 J	--- U	0.1 J	02/26/09	LFJ	EPA200.8
Thallium, ug/l	0.04	5.0	--- U	--- U	--- U	--- U	0.5 J	02/26/09	LFJ	EPA200.8
Vanadium, ug/l	0.07	25.0	17.3 J	4.6 J	34	2.4 J	0.3 J	02/26/09	LFJ	EPA200.8
Zinc, ug/l	0.04	10.0	7.4 J	3 J	8.3 J	3.5 J	2.5 J	02/26/09	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	1697	303	720	723	720	02/20/09	RJH	SM2510B
Temperature, °C			6	11	15	17	17	02/20/09	RJH	SM2550B
Static Water Level, feet				4.45	9.62	7.70	9.60	02/20/09	RJH	
Well Depth, feet				13.96	14.36	16.23	26.43	02/20/09	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Initial:

Drinking Water ID: 37715
Wastewater ID: 10

OCT 01 2009

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

RECEIVED

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER RD.
VANCEBORO ,NC 28586

DATE COLLECTED: 08/11/09
DATE REPORTED : 09/14/09

REVIEWED BY:

PARAMETERS	MDL	SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units			8.0	6.2	6.6	6.3	6.6	08/11/09	RJH	SM4500HB
Sulfate, mg/l	5.0	250.0	11.2 J	11.0 J	12.7 J	10.9 J	35.8 J	08/14/09	TRB	SM4500-SO4
Antimony, ug/l	0.06	6.0	0.3 J	--- U	0.1 J	--- U	0.1 J	08/13/09	LFJ	EPA200.8
Arsenic, ug/l	0.17	10.0	2.5 J	4.3 J	1.5 J	1.8 J	7 J	08/13/09	LFJ	EPA200.8
Barium, ug/l	0.04	100.0	46.6 J	50.9 J	135	68.1 J	104	08/13/09	LFJ	EPA200.8
Beryllium, ug/l	0.06	1.0	--- U	--- U	--- U	--- U	--- U	08/13/09	LFJ	EPA200.8
Cadmium, ug/l	0.04	1.0	--- U	0.1 J	0.2 J	0.1 J	0.1 J	08/13/09	LFJ	EPA200.8
Cobalt, ug/l	0.02	10.0	0.9 J	5.3 J	0.7 J	0.3 J	20	08/13/09	LFJ	EPA200.8
Copper, ug/l	0.04	10.0	3.5 J	0.7 J	1.1 J	0.5 J	0.6 J	08/13/09	LFJ	EPA200.8
Chromium, ug/l	0.10	10.0	1.5 J	1.5 J	0.8 J	0.1 J	--- U	08/13/09	LFJ	EPA200.8
ug/l	0.04	10.0	0.4 J	0.2 J	0.5 J	0.1 J	0.1 J	08/13/09	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0	14.5 J	4.3 J	4.8 J	4.6 J	8.4 J	08/13/09	LFJ	EPA200.8
Selenium, ug/l	0.12	10.0	0.4 J	0.2 J	0.3 J	--- U	0.2 J	08/13/09	LFJ	EPA200.8
Silver, ug/l	0.04	10.0	--- U	--- U	--- U	--- U	0.1 J	08/13/09	LFJ	EPA200.8
Thallium, ug/l	0.03	5.0	--- U	--- U	--- U	--- U	0.8 J	08/13/09	LFJ	EPA200.8
Vanadium, ug/l	0.28	25.0	8 J	5.5 J	14.1 J	1.4 J	--- U	08/13/09	LFJ	EPA200.8
Zinc, ug/l	0.14	10.0	3.3 J	3.1 J	4.5 J	1.1 J	2.4 J	08/13/09	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	1361	293	660	667	780	08/11/09	RJH	SM2510B
Temperature, °C			28	22	22	24	20	08/11/09	RJH	SM2550B
Static Water Level, feet				4.96	9.51	8.04	9.46	08/11/09	RJH	
Well Depth, feet				13.96	14.36	16.23	26.43	08/11/09	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER RD.
VANCEBORO, NC 28586

CLIENT ID: 6017

ANALYST: MAO
DATE COLLECTED: 02/19/10
DATE ANALYZED: 03/01/10
DATE REPORTED: 03/10/10

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
[illegible]. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
[illegible]. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
[illegible]. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
[illegible]. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

2/5/11

Environment 1, Incorporated

Drinking Water ID: 3771
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER RD.
VANCEBORO ,NC 28586

DATE COLLECTED: 02/19/10
DATE REPORTED : 03/10/10

REVIEWED BY:

PARAMETERS	MDL	SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units			7.6	6.1	6.8	6.4	6.6	02/19/10	RJH	SM4500HB
Sulfate, mg/l	5.0	250.0	21.3 J	--- U	42.0 J	10.0 J	14.1 J	02/22/10	TRB	SM426C
Antimony, ug/l	0.06	6.0	--- U	--- U	0.2 J	--- U	--- U	02/25/10	CMF	EPA200.8
Arsenic, ug/l	0.17	10.0	0.6 J	3.3 J	0.6 J	5.5 J	3.0 J	02/25/10	CMF	EPA200.8
Barium, ug/l	0.04	100.0	28.7 J	43.2 J	68.2 J	92.2 J	58.8 J	02/25/10	CMF	EPA200.8
Beryllium, ug/l	0.06	1.0	--- U	--- U	--- U	--- U	--- U	02/22/50	CMF	EPA200.8
Cadmium, ug/l	0.04	1.0	--- U	--- U	--- U	0.1 J	--- U	02/25/10	CMF	EPA200.8
Cobalt, ug/l	0.02	10.0	0.7 J	6.0 J	0.3 J	1.3 J	7.8 J	02/25/10	CMF	EPA200.8
Copper, ug/l	0.04	10.0	2.1 J	0.3 J	0.8 J	1.6 J	0.4 J	02/25/10	CMF	EPA200.8
Total Chromium, ug/l	0.10	10.0	0.6 J	0.7 J	0.8 J	0.5 J	--- U	02/25/10	CMF	EPA200
Lead, ug/l	0.04	10.0	0.1 J	0.2 J	0.4 J	0.3 J	0.1 J	02/25/10	CMF	EPA200
Nickel, ug/l	0.04	50.0	5.9 J	1.3 J	3.9 J	2.8 J	3.7 J	02/25/10	CMF	EPA200.8
Selenium, ug/l	0.12	10.0	--- U	--- U	--- U	--- U	--- U	02/25/10	CMF	EPA200.8
Silver, ug/l	0.04	10.0	--- U	0.1 J	0.1 J	0.1 J	0.2 J	02/25/10	CMF	EPA200.8
Thallium, ug/l	0.03	5.0	--- U	--- U	--- U	--- U	0.3 J	02/25/10	CMF	EPA200.8
Vanadium, ug/l	0.28	25.0	5.1 J	4.0 J	15.5 J	3.2 J	0.5 J	02/25/10	CMF	EPA200.8
Zinc, ug/l	0.14	10.0	2.1 J	2.4 J	2.5 J	2.1 J	1.8 J	02/25/10	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	1643	833	842	355	692	02/19/10	RJH	SM2510B
Temperature, °C			5	16	12	11	16	02/19/10	RJH	SM2550B
Static Water Level, feet				7.03	8.49	3.82	8.51	02/19/10	RJH	
Well Depth, feet				13.96	14.36	16.23	26.43	02/19/10	RJH	

transposed

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER RD.
VANCEBORO ,NC 28586

DATE COLLECTED: 08/18/10
DATE REPORTED : 09/08/10

REVIEWED BY:

PARAMETERS	MDL	Leachate SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units			7.8	6.3	6.5	6.2	6.7	08/18/10	RJH	SM4500HB
Sulfate, mg/l	5.0	250.0	--- U	5.3 J	49.7 J	--- U	15.7 J	08/23/10	TRB	SM426C
Antimony, ug/l	0.22	6.0	--- U	--- U	0.3 J	--- U	--- U	08/27/10	CMF	EPA200.8
Arsenic, ug/l	0.04	10.0	3.8 J	3.9 J	1.2 J	0.7 J	4.7 J	08/27/10	CMF	EPA200.8
Barium, ug/l	0.03	100.0	84.3 J	42.7 J	179	100	87.5 J	08/27/10	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	0.1 J	0.1 J	0.1 J	--- U	--- U	08/27/10	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	--- U	0.2 J	0.5 J	0.1 J	--- U	08/27/10	CMF	EPA200.8
Cobalt, ug/l	0.10	10.0	1.2 J	4.7 J	3.2 J	0.4 J	17	08/27/10	CMF	EPA200.8
Copper, ug/l	0.03	10.0	5.7 J	0.3 J	0.5 J	0.3 J	0.2 J	08/27/10	CMF	EPA200.8
Chromium, ug/l	0.03	10.0	3.2 J	1.3 J	1.7 J	0.5 J	--- U	08/27/10	CMF	EPA200.8
ug/l	0.01	10.0	1.6 J	0.2 J	0.6 J	0.2 J	0.1 J	08/27/10	CMF	EPA200.8
Nickel, ug/l	0.05	50.0	13.1 J	1.6 J	11.5 J	3.8 J	6.1 J	08/27/10	CMF	EPA200.8
Selenium, ug/l	0.32	10.0	0.5 J	--- U	0.3 J	0.6 J	--- U	08/27/10	CMF	EPA200.8
Silver, ug/l	0.03	10.0	0.1 J	0.1 J	0.1 J	--- U	--- U	08/27/10	CMF	EPA200.8
Thallium, ug/l	0.05	5.5	--- U	0.3 J	0.1 J	--- U	0.6 J	08/27/10	CMF	EPA200.8
Vanadium, ug/l	0.03	25.0	12.6 J	5.3 J	4.6 J	2.0 J	0.6 J	08/27/10	CMF	EPA200.8
Zinc, ug/l	0.08	10.0	15	2.6 J	5.7 J	1.4 J	1.6 J	08/27/10	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	2075	308	848	903	741	08/18/10	RJH	SM2510B
Temperature, °C			30	23	22	24	20	08/18/10	RJH	SM2550B
Static Water Level, feet				5.23	9.49	8.48	9.46	08/18/10	RJH	
Well Depth, feet				13.96	14.36	16.23	26.43	08/18/10	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 377
Wastewater ID: 10

BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER RD.
VANCEBORO, NC 28586

CLIENT ID: 6017

ANALYST: MAO
DATE COLLECTED: 08/18/10
DATE ANALYZED: 08/31/10
DATE REPORTED: 09/08/10

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	9.80 J	--- U	--- U	--- U	9.40 J
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

~15/4

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER RD.
VANCEBORO ,NC 28586

DATE COLLECTED: 02/03/11
DATE REPORTED : 02/15/11

REVIEWED BY:

PARAMETERS	MDL	SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units			7.8	6.4	6.8	6.4	6.9	02/03/11	RJH	SM4500HB
Sulfate, mg/l	5.0	250.0	61.8 J	--- U	116 J	--- U	31.1 J	02/10/11	SEJ	SM426C
Antimony, ug/l	0.22	6.0	0.3 J	--- U	0.3 J	--- U	--- U	02/10/11	CMF	EPA200.8
Arsenic, ug/l	0.04	10.0	1.6 J	2.0 J	0.8 J	0.9 J	2.6 J	02/10/11	CMF	EPA200.8
Barium, ug/l	0.03	100.0	35.5 J	36.4 J	77.8 J	79.3 J	54.5 J	02/10/11	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	--- U	0.1 J	0.1 J	--- U	--- U	02/10/11	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	--- U	0.1 J	0.1 J	0.1 J	--- U	02/10/11	CMF	EPA200.8
Cobalt, ug/l	0.10	10.0	0.8 J	4.1 J	0.4 J	0.4 J	6.2 J	02/10/11	CMF	EPA200.8
Copper, ug/l	0.03	10.0	2.9 J	0.5 J	1.5 J	0.7 J	0.8 J	02/10/11	CMF	EPA200.8
Total Chromium, ug/l	0.03	10.0	0.9 J	1.0 J	0.8 J	0.2 J	--- U	02/10/11	CMF	EPA200.8
Lead, ug/l	0.01	10.0	0.1 J	0.1 J	0.5 J	0.1 J	--- U	02/10/11	CMF	EPA200.8
Nickel, ug/l	0.05	50.0	7.8 J	1.2 J	4.5 J	2.3 J	3.3 J	02/10/11	CMF	EPA200.8
Selenium, ug/l	0.32	10.0	--- U	--- U	--- U	0.4 J	--- U	02/10/11	CMF	EPA200.8
Silver, ug/l	0.03	10.0	--- U	--- U	--- U	1.0 J	--- U	02/10/11	CMF	EPA200.8
Thallium, ug/l	0.05	5.5	--- U	--- U	--- U	--- U	0.4 J	02/10/11	CMF	EPA200.8
Vanadium, ug/l	0.03	25.0	8.3 J	5.2 J	14.2 J	1.4 J	0.6 J	02/10/11	CMF	EPA200.8
Zinc, ug/l	0.08	10.0	3.4 J	5.9 J	3.0 J	0.5 J	1.3 J	02/10/11	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	1935	272	1114	889	668	02/03/11	RJH	SM2510B
Temperature, °C			10	13	15	18	19	02/03/11	RJH	SM2550B
Static Water Level, feet				4.35	9.39	6.76	9.39	02/03/11	RJH	
Well Depth, feet				13.96	14.36	16.23	26.43	02/03/11	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 3771
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER RD.
VANCEBORO, NC 28586

CLIENT ID: 6017

ANALYST: AO
DATE COLLECTED: 02/03/11
DATE ANALYZED: 02/07/11
DATE REPORTED: 02/15/11

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Inc.

Sampled By ☑ Bob Hilgoe ☐ Bobby Fox	Facility NEWBERN N.C.	Site ID 6017
Other:	Project No.	Date (m/d/y) 02-03-11

Site Description X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 39 ☐ °C ☑ °F Weather: 39 CLOUDY

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed:

x TOC Description:

TOC Stickup: 2.44 ft. above/below ground Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data

Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 13.96

x E-Tape, # 2 ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1045	1045	1046	1056	1059	1103	
Depth to Water	4.35	4.35	4.35	4.45	4.46	4.46	
Tape Correction							
Water Level (WL)	4.35	4.35	4.35	4.45	4.46	4.46	
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data

Purge Depth: 4.35 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [13.96 (TD) - _____ (WL)] • [_____ (Well ID)]^2 • [_____ (Conversion Factor)] = 1.56 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	1.56	3.12	4.68					
Time (hh:mm; 24-hr clock)	1054	1056	1059					
pH (Temperature Corrected? ☐)	6.40	6.39	6.4				OAKTON	4.0/7.0/10.0 Buffers
Temperature, °C	13	13	13					
Dissolved Oxygen mg/L								
S Conductivity µS/cm	277	272	272				OAKTON	1413 498
Turbidity ☐ NTU								
Color/Tint	No	No	No					
Odor	No	No	No					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 imperial gallon

Sample Data

Sample Depth: 4.46 ☐ Grab ☐ Bailer X Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
OWS 1		02-03-11	1103	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) BOB HILGOE	Signature Bob Hilgoe

Environment 1, Inc.

Sampled By ☒ Bob Hilgoe ☐ Bobby Fox Other:	Facility NEW BERN N.C.	Site ID 6017
	Project No.	Date (m/d/y) 02·03·11

Site Description X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 39 ☐ °C ☒ °F	Weather: CLOUDY
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
x TOC Description:	
TOC Stickup: 2.17 ft. ~~above~~/below ground	Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 14.36

x E-Tape, # 2 ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	0935	0935	0935	0945	0947	0950	
Depth to Water	9.39	9.39	9.39	9.76	9.75	9.75	
Tape Correction							
Water Level (WL)	9.39	9.39	9.39	9.76	9.75	9.75	
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 9.39 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [14.36 (TD) - 9.39 (WL)] • [(Well ID)]^2 • [(Conversion Factor)] = 0.81 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	0.81	1.62	2.43			(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	0942	0945	0947					
pH (Temperature Corrected? ☐)	6.76	6.78	6.8				OAKTON	4.0/7.0/10.0 Buffers
Temperature, °C	15	16	15					
Dissolved Oxygen mg/L								
S Conductivity µS/cm	1115	1114	1114				OAKTON	1413 498
Turbidity ☐ NTU								
Color/Tint	NO	NO	NO					
Odor	NO	NO	NO					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 imperial gallon

Sample Data Sample Depth: 9.75 ☐ Grab ☐ Bailer X Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
OWS 2		020311	0950	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) BOB HILGOE	Signature [illegible]

Environment 1, Inc.

Sampled By ☑ Bob Hilgoe ☐ Bobby Fox	Facility NEW BERN NC	Site ID 6017
Other:	Project No.	Date (m/d/y) 02 03 11

Site Description X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 39 ☐ °C ☑ °F Weather: CLOUDY

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed:

x TOC Description:

TOC Stickup: 2.09 ft. ~~above~~/below ground Well Inside Diameter (ID): x 2-Inch ☐ 4-Inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 16.23

x E-Tape, # 2 ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1023	1023	1024	1030	1034	1038	
Depth to Water	6.76	6.76	6.76	10.80	10.80	10.80	
Tape Correction							
Water Level (WL)	6.76	6.76	6.76	10.80	10.80	10.80	
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 6.76 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [16.23 (TD) - _____ (WL)] • [_____ (Well ID)]^2 • [_____ (Conversion Factor)] = 1.54 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	1.54	3.08	4.62			(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1028	1030	1034					
pH (Temperature Corrected? ☐)	6.39	6.43	6.4				OAKTON	4.0/7.0/10.0 Buffers
Temperature, °C	18	18	18					
Dissolved Oxygen mg/L								
S Conductivity µS/cm	889	886	889				OAKTON	1413 498
Turbidity ☐ NTU								
Color/Tint	NO	NO	NO					
Odor	NO	NO	NO					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 10.80 ☐ Grab ☐ Bailer X Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
OWS 3		020311	1038	2					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) H. LGOE | FOX Signature BOB H [illegible]

Date Entered into Database By:

Environment 1, Inc.

Sampled By ☒ Bob Hilgoe ☐ Bobby Fox Other:	Facility NEW BERN N.C.	Site ID 6017
	Project No.	Date (m/d/y) 02·03·11

Site Description X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 39 ☐ °C ☒ °F	Weather: CLOUDY
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
x TOC Description:	
TOC Stickup: 2.17 ft. above/below ground	Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 26.43

x E-Tape, # 2 ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	0935	0935	0954	0958	1002	1007	
Depth to Water	9.39	9.39	9.39	10.36	10.35	10.49	
Tape Correction							
Water Level (WL)	9.39	9.39	9.39	10.36	10.35	10.49	
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 9.39 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [26.43 (TD) - _____ (WL)] • [_____ (Well ID)]^2 • [_____ (Conversion Factor)] = 2.78 gals
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in Inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	2.78	5.56	8.34					
Time (hh:mm; 24-hr clock)	0956	0958	1002					
pH (Temperature Corrected? ☐)	6.91	6.90	6.9				OAKTON	4.0/7.0/10.0 Buffers
Temperature, °C	18	18	19					
Dissolved Oxygen mg/L								
S Conductivity µS/cm	663	665	668				OAKTON	1413 / 498
Turbidity ☐ NTU								
Color/Tint	NO	NO	NO					
Odor	NO	NO	NO					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 imperial gallon

Sample Data Sample Depth: 10.49 ☐ Grab ☐ Bailer X Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
DWD 1		020311	1007	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Bob Hilgoe	Signature Bob Hilgoe

Environmental Inc.
P.O. Box 7085, 634 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6017 **Week: 6**

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER RD.
VANCEBORO NC 28586

(252) 633-7633

DISINFECTION
- [ ] CHLORINE
- [ ] UV
- [ ] NONE
- [ ] _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE °C AT COLLECTION	# OF CONTAINERS	Field pH	Sulfate	Metals	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
CHLORINE NEUTRALIZED AT COLLECTION														
pH CHECK (LAB)								12				12	12	12
CONTAINER TYPE, P/G						P	P	P	P	P		G	G	G
CHEMICAL PRESERVATION (PARAMETERS)						A	A	A	A	A		E	E	E
Leachate Canal 02	03 11	1015		10	6	G	G	G	G	G		G	G	G
OWS1 02	03 11	1103		13	6	G	G	G	G	G	G	G	G	G
OWS2 02	03 11	1050		15	6	G	G	G	G	G	G	G	G	G
OWS3 02	03 11	1038		18	6	G	G	G	G	G	G	G	G	G
OWD1 02	03 11	1007		19	6	G	G	G	G	G	G	G	G	G

CHEMICAL PRESERVATION:
A - NONE
B - HNO_3
C - H_2SO_4
D - NAOH
E - HCL
F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- [ ] WASTEWATER (NPDES)
- [ ] DRINKING WATER
- [ ] DWQ/GW
- [x] SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY: (Y) N

SAMPLES COLLECTED BY: (Please Print) H Lagoe / Fat

SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Lagoe	02 03 11	B	2/3 1140
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested.

№ 213811

FORM #5

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER RD.
VANCEBORO ,NC 28586

DATE COLLECTED: 02/03/11
DATE REPORTED : 02/15/11

REVIEWED BY:

PARAMETERS	MDL	Leachate SWSL	Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units			7.8	6.4	6.8	6.4	6.9	02/03/11	RJH	SM4500HB
Sulfate, mg/l	5.0	250.0	61.8 J	--- U	116 J	--- U	31.1 J	02/10/11	SEJ	SM426C
Antimony, ug/l	0.22	6.0	0.3 J	--- U	0.3 J	--- U	--- U	02/10/11	CMF	EPA200.8
Arsenic, ug/l	0.04	10.0	1.6 J	2.0 J	0.8 J	0.9 J	2.6 J	02/10/11	CMF	EPA200.8
Barium, ug/l	0.03	100.0	35.5 J	36.4 J	77.8 J	79.3 J	54.5 J	02/10/11	CMF	EPA200.8
Beryllium, ug/l	0.02	1.0	--- U	0.1 J	0.1 J	--- U	--- U	02/10/11	CMF	EPA200.8
Cadmium, ug/l	0.02	1.0	--- U	0.1 J	0.1 J	0.1 J	--- U	02/10/11	CMF	EPA200.8
Cobalt, ug/l	0.10	10.0	0.8 J	4.1 J	0.4 J	0.4 J	6.2 J	02/10/11	CMF	EPA200.8
Copper, ug/l	0.03	10.0	2.9 J	0.5 J	1.5 J	0.7 J	0.8 J	02/10/11	CMF	EPA200.8
Total Chromium, ug/l	0.03	10.0	0.9 J	1.0 J	0.8 J	0.2 J	--- U	02/10/11	CMF	EPA200.8
Lead, ug/l	0.01	10.0	0.1 J	0.1 J	0.5 J	0.1 J	--- U	02/10/11	CMF	EPA200.8
Nickel, ug/l	0.05	50.0	7.8 J	1.2 J	4.5 J	2.3 J	3.3 J	02/10/11	CMF	EPA200.8
Selenium, ug/l	0.32	10.0	--- U	--- U	--- U	0.4 J	--- U	02/10/11	CMF	EPA200.8
Silver, ug/l	0.03	10.0	--- U	--- U	--- U	1.0 J	--- U	02/10/11	CMF	EPA200.8
Thallium, ug/l	0.05	5.5	--- U	--- U	--- U	--- U	0.4 J	02/10/11	CMF	EPA200.8
Vanadium, ug/l	0.03	25.0	8.3 J	5.2 J	14.2 J	1.4 J	0.6 J	02/10/11	CMF	EPA200.8
Zinc, ug/l	0.08	10.0	3.4 J	5.9 J	3.0 J	0.5 J	1.3 J	02/10/11	CMF	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	1935	272	1114	889	668	02/03/11	RJH	SM2510B
Temperature, °C			10	13	15	18	19	02/03/11	RJH	SM2550B
Static Water Level, feet				4.35	9.39	6.76	9.39	02/03/11	RJH	
Well Depth, feet				13.96	14.36	16.23	26.43	02/03/11	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER RD.
VANCEBORO, NC 28586

CLIENT ID: 6017

ANALYST: AO
DATE COLLECTED: 02/03/11
DATE ANALYZED: 02/07/11
DATE REPORTED: 02/15/11

REVIEWED BY: _____

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	--- U	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Inc.

Sampled By ☑ Bob Hilgoe ☐ Bobby Fox Other:	Facility NEW BERN N.C.	Site ID C017
	Project No.	Date (m/d/y) 02-03-11

Site Description X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 39 ☐ °C ☑ °F Weather: 39 CLOUDY

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed:

x TOC Description:

TOC Stickup: 2.44 ft. above/below ground Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 13.96

x E-Tape, # 2 ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1045	1045	1046	1056	1059	1103	
Depth to Water	4.35	4.35	4.35	4.45	4.46	4.46	
Tape Correction							
Water Level (WL)	4.35	4.35	4.35	4.45	4.46	4.46	
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 4.35 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [13.96 (TD) - ____ (WL)] • [____ (Well ID)]^2 • [____ (Conversion Factor)] = 1.56 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	1.56	3.12	4.68			(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1054	1056	1059					
pH (Temperature Corrected? ☐)	6.40	6.39	6.4				OAKTON	4.0/7.0/10.0 Buffers
Temperature, °C	13	13	13					
Dissolved Oxygen mg/L								
S Conductivity µS/cm	277	272	272				OAKTON	1413 498
Turbidity ☐ NTU								
Color/Tint	NC	NC	NC					
Odor	NO	NO	NO					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 4.46 ☐ Grab ☐ Bailer X Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
OWS 1		02-03-11	1103	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) BOB HILGOE	Signature Bob Hilgoe

Environment 1, Inc.

Sampled By ☒ Bob Hilgoe ☐ Bobby Fox	Facility NEW BERN N.C.	Site ID 6017
Other:	Project No.	Date (m/d/y) 02·03·11

Site Description

X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 39 ☐ °C ☒ °F	Weather: CLOUDY
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
x TOC Description:	
TOC Stickup: 2.17 ft. above/below ground	Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data

Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 14.36

x E-Tape, # 2 ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	0935	0935	0935	0945	0947	0950	
Depth to Water	9.39	9.39	9.39	9.76	9.75	9.75	
Tape Correction							
Water Level (WL)	9.39	9.39	9.39	9.76	9.75	9.75	
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data

Purge Depth: 9.39 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [14.36 (TD) - 9.39 (WL)] • [____ (Well ID)]^2 • [____ (Conversion Factor)] = 0.81 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	0.81	1.62	2.43					
Time (hh:mm; 24-hr clock)	0942	0945	0947					
pH (Temperature Corrected? ☐)	6.76	6.78	6.8				OAKTON	4.0/7.0/10.0 Buffers
Temperature, °C	15	16	15					
Dissolved Oxygen mg/L								
S Conductivity µS/cm	1115	1114	1114				OAKTON	1413 498
Turbidity ☐ NTU								
Color/Tint	NO	NO	NO					
Odor	NO	NO	NO					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data

Sample Depth: 9.75 ☐ Grab ☐ Bailer X Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
OWS 2		020311	0950	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) B.B. HILGOE	Signature Bob Hilgoe

Environment 1, Inc.

Sampled By ☑ Bob Hilgoe ☐ Bobby Fox	Facility NEW BERN NC	Site ID 6017
Other:	Project No.	Date (m/d/y) 02 03 11

Site Description X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 39 ☐ °C ☑ °F Weather: CLOUDY

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed:

x TOC Description:

TOC Stickup: 2.09 ft. above/below ground Well Inside Diameter (ID): x 2-inch ☐ 4-Inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 16.23

x E-Tape, # 2 ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1023	1023	1024	1030	1034	1038	
Depth to Water	6.76	6.76	6.76	10.80	10.80	10.80	
Tape Correction							
Water Level (WL)	6.76	6.76	6.76	10.80	10.80	10.80	
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well), R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 6.76 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [16.23 (TD) - _____ (WL)] • [_____ (Well ID)]^2 • [_____ (Conversion Factor)] = 1.54 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate	1.54	3.08	4.62			(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1028	1030	1034					
pH (Temperature Corrected? ☐)	6.39	6.43	6.4				OAKTON	4.0/7.0/10.0 Buffers
Temperature, °C	18	18	18					
Dissolved Oxygen mg/L								
S Conductivity µS/cm	889	886	889				OAKTON	1413 498
Turbidity ☐ NTU								
Color/Tint	NO	NO	NO					
Odor	NO	NO	NO					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 imperial gallon

Sample Data Sample Depth: 10.80 ☐ Grab ☐ Bailer X Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
OWS 3		020311	1038	2					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) H. LGOE / FOX	Signature BOB H Hlgoe

Date Entered into Database By:

Environment 1, Inc.

Sampled By ☒ Bob Hilgoe ☐ Bobby Fox Other:	Facility NEW BERN N.C.	Site ID 6017
	Project No.	Date (m/d/y) 02·03·11

Site Description X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 39 ☐ °C ☒ °F	Weather: CLOUDY
Well Locked? ☒ yes ☐ no	Damaged/Repairs Needed:
x TOC Description:	
TOC Stickup: 2.17 ft. above/below ground	Well Inside Diameter (ID): x 2-Inch ☐ 4-inch Other:
Site Remarks (nearby wells pumping, tide, stream stage, etc.)	

Water Level Data Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 26.43

x E-Tape, # 2 ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	0935	0935	0954	0958	1002	1007	
Depth to Water	9.39	9.39	9.39	10.36	10.35	10.49	
Tape Correction							
Water Level (WL)	9.39	9.39	9.39	10.36	10.35	10.49	
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 9.39 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: 26.43 (TD) - _____ (WL) • [_____ (Well ID)]^2 • [_____ (Conversion Factor)] = 2.78 gals
Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	0956	0958	1002					
pH (Temperature Corrected? ☐)	6.91	6.90	6.9				OAKTON	4.0/7.0/10.0 Buffers
Temperature, °C	18	18	19					
Dissolved Oxygen mg/L								
S Conductivity µS/cm	663	665	668				OAKTON	1413 498
Turbidity ☐ NTU								
Color/Tint	NO	NO	NO					
Odor	NO	NO	NO					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 Imperial gallon

Sample Data Sample Depth: 10.49 ☐ Grab ☐ Bailer X Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
OWD 1		020311	1007	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Bob Hilgoe	Signature Bob Hilgoe

Environmen[illegible]ic.
P.O. Box 7085, 714 Oakmont Dr
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756 0633

CHAIN OF CUS[illegible]DY RECORD

CLIENT: 6017 **Week: 6**

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER RD.
VANCEBORO NC 28586

(252) 633-7633

DISINFECTION: ☐ CHLORINE ☐ UV ☐ NONE ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Sulfate	Metals	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
								12				12		12
CONTAINER TYPE, P/G						P	P	P	P	P		G	G	G
CHEMICAL PRESERVATION						A	A	A	A	A		E	E	E
Leachate Canal 02	03 11	1015		10	6	G	G	G	G	G		G	G	G
OWS1 02	03 11	1103		13	6	G	G	G	G	G	G	G	G	G
OWS2 02	03 11	1050		15	6	G	G	G	G	G	G	G	G	G
OWS3 02	03 11	1038		18	6	G	G	G	G	G	G	G	G	G
OWD1 02	03 11	1007		19	6	G	G	G	G	G	G	G	G	G

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

PARAMETERS

A - NONE D - NAOH
B - HNO_3 E - HCL
C - H_2SO_4 F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION

☐ WASTEWATER (NPDES)
☐ DRINKING WATER
☐ DWQ/GW
☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
(Y) N

SAMPLES COLLECTED BY. (Please Print)
H Hogge / fot

SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
Bob H Hogge 02	03 11	B	2/3 1140
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side

Sampler must place a "C" for composite sample or a "G" for Grab sample in the blocks above for each parameter requested

FORM #5

№ 213811

Environment 1, Incorporated

Drinking Water ID: 37715
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

ID#: 6017

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER RD.
VANCEBORO ,NC 28586

DATE COLLECTED: 08/30/11
DATE REPORTED : 09/20/11

REVIEWED BY:

PARAMETERS	MDL	Leachate SWSL	Leachate Canal	OWS1	OWS2	OWS3	OWD1	Analysis Date	Analyst	Method Code
PH (field measurement), Units			7.1	6.3	6.6	6.0	6.6	08/30/11	RJH	SM4500HB
Sulfate, mg/l	5.0	250.0	38.8 J	6.2 J	70.1 J	91.8 J	15.0 J	09/09/11	TRB	SM426C
Antimony, ug/l	0.14	6.0	0.32 J	0.27 J	0.72 J	0.26 J	--- U	09/01/11	LFJ	EPA200.8
Arsenic, ug/l	0.10	10.0	0.66 J	2.0 J	0.47 J	2.8 J	7 J	09/01/11	LFJ	EPA200.8
Barium, ug/l	0.02	100.0	23.9 J	49.1 J	108	91.1 J	88.9 J	09/01/11	LFJ	EPA200.8
Beryllium, ug/l	0.02	1.0	--- U	0.08 J	--- U	--- U	--- U	09/01/11	LFJ	EPA200.8
Cadmium, ug/l	0.02	1.0	--- U	0.09 J	0.27 J	0.11 J	--- U	09/01/11	LFJ	EPA200.8
Cobalt, ug/l	0.03	10.0	0.29 J	8.5 J	0.36 J	0.68 J	16	09/01/11	LFJ	EPA200.8
Copper, ug/l	0.02	10.0	2.3 J	0.92 J	2.1 J	2.1 J	0.20 J	09/01/11	LFJ	EPA200.8
Total Chromium, ug/l	0.04	10.0	0.34 J	1.6 J	0.52 J	0.25 J	--- U	09/01/11	LFJ	EPA200.8
Lead, ug/l	0.02	10.0	0.11 J	0.30 J	0.15 J	0.07 J	--- U	09/01/11	LFJ	EPA200.8
Nickel, ug/l	0.04	50.0	2.3 J	1.4 J	3.6 J	1.3 J	5.3 J	09/01/11	LFJ	EPA200.8
Selenium, ug/l	0.20	10.0	0.27 J	--- U	0.47 J	--- U	--- U	09/01/11	LFJ	EPA200.8
Silver, ug/l	0.02	10.0	--- U	0.04 J	0.04 J	--- U	--- U	09/01/11	LFJ	EPA200.8
Thallium, ug/l	0.02	5.5	--- U	0.09 J	0.07 J	0.08 J	0.64 J	09/01/11	LFJ	EPA200.8
Vanadium, ug/l	0.14	25.0	2.7 J	5.9 J	19.2 J	1.8 J	0.38 J	09/01/11	LFJ	EPA200.8
Zinc, ug/l	0.24	10.0	19	2.7 J	3.1 J	1.5 J	1.3 J	09/01/11	LFJ	EPA200.8
Conductivity (at 25c), uMhos	1.0	1.0	411	290	812	487	632	08/30/11	RJH	SM2510B
Temperature, °C			24	24	25	27	21	08/30/11	RJH	SM2550B
Static Water Level, feet				3.29	7.84	6.98	8.00	08/30/11	RJH	
Well Depth, feet				13.96	14.36	16.23	26.43	08/30/11	RJH	

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Incorporated

Drinking Water ID: 37
Wastewater ID: 10

P.O. BOX 7085, 114 OAKMONT DRIVE
GREENVILLE, N.C. 27835-7085

PHONE (252) 756-6208
FAX (252) 756-0633

CLIENT: WEYERHAEUSER, NEW BERN (LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER RD.
VANCEBORO, NC 28586

CLIENT ID: 6017

ANALYST: MAO
DATE COLLECTED: 08/30/11
DATE REPORTED: 09/20/11

REVIEWED BY:

VOLATILE ORGANICS
EPA METHOD 8260B

PARAMETERS, ug/l	MDL	SWSL	Date Analyzed: 09/07/11 Leachate Canal	09/08/11 OWS1	09/08/11 OWS2	09/08/11 OWS3	09/08/11 OWD1
1. Chloromethane	0.77	1.0	--- U	--- U	--- U	--- U	--- U
2. Vinyl Chloride	0.63	1.0	--- U	--- U	--- U	--- U	--- U
3. Bromomethane	0.67	10.0	--- U	--- U	--- U	--- U	--- U
4. Chloroethane	0.48	10.0	--- U	--- U	--- U	--- U	--- U
5. Trichlorofluoromethane	0.24	1.0	--- U	--- U	--- U	--- U	--- U
6. 1,1-Dichloroethene	0.17	5.0	--- U	--- U	--- U	--- U	--- U
7. Acetone	9.06	100.0	15.90 J	--- U	--- U	--- U	--- U
8. Iodomethane	0.26	10.0	--- U	--- U	--- U	--- U	--- U
9. Carbon Disulfide	0.23	100.0	--- U	--- U	--- U	--- U	--- U
10. Methylene Chloride	0.64	1.0	--- U	--- U	--- U	--- U	--- U
11. trans-1,2-Dichloroethene	0.23	5.0	--- U	--- U	--- U	--- U	--- U
12. 1,1-Dichloroethane	0.20	5.0	--- U	--- U	--- U	--- U	--- U
13. Vinyl Acetate	0.20	50.0	--- U	--- U	--- U	--- U	--- U
14. Cis-1,2-Dichloroethene	0.25	5.0	--- U	--- U	--- U	--- U	--- U
15. 2-Butanone	2.21	100.0	--- U	--- U	--- U	--- U	--- U
16. Bromochloromethane	0.27	3.0	--- U	--- U	--- U	--- U	--- U
17. Chloroform	0.25	5.0	--- U	--- U	--- U	--- U	--- U
18. 1,1,1-Trichloroethane	0.19	1.0	--- U	--- U	--- U	--- U	--- U
19. Carbon Tetrachloride	0.22	1.0	--- U	--- U	--- U	--- U	--- U
20. Benzene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
21. 1,2-Dichloroethane	0.27	1.0	--- U	--- U	--- U	--- U	--- U
22. Trichloroethene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
23. 1,2-Dichloropropane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
24. Bromodichloromethane	0.21	1.0	--- U	--- U	--- U	--- U	--- U
25. Cis-1,3-Dichloropropene	0.24	1.0	--- U	--- U	--- U	--- U	--- U
26. 4-Methyl-2-Pentanone	1.19	100.0	--- U	--- U	--- U	--- U	--- U
27. Toluene	0.23	1.0	--- U	--- U	--- U	--- U	--- U
28. trans-1,3-Dichloropropene	0.28	1.0	--- U	--- U	--- U	--- U	--- U
29. 1,1,2-Trichloroethane	0.25	1.0	--- U	--- U	--- U	--- U	--- U
30. Tetrachloroethene	0.17	1.0	--- U	--- U	--- U	--- U	--- U
31. 2-Hexanone	1.57	50.0	--- U	--- U	--- U	--- U	--- U
32. Dibromochloromethane	0.24	3.0	--- U	--- U	--- U	--- U	--- U
33. 1,2-Dibromoethane	0.26	1.0	--- U	--- U	--- U	--- U	--- U
34. Chlorobenzene	0.30	3.0	--- U	--- U	--- U	--- U	--- U
35. 1,1,1,2-Tetrachloroethane	0.22	5.0	--- U	--- U	--- U	--- U	--- U
36. Ethylbenzene	0.21	1.0	--- U	--- U	--- U	--- U	--- U
37. Xylenes	0.68	5.0	--- U	--- U	--- U	--- U	--- U
38. Dibromomethane	0.28	10.0	--- U	--- U	--- U	--- U	--- U
39. Styrene	0.19	1.0	--- U	--- U	--- U	--- U	--- U
40. Bromoform	0.20	3.0	--- U	--- U	--- U	--- U	--- U
41. 1,1,2,2-Tetrachloroethane	0.26	3.0	--- U	--- U	--- U	--- U	--- U
42. 1,2,3-Trichloropropane	0.43	1.0	--- U	--- U	--- U	--- U	--- U
43. 1,4-Dichlorobenzene	0.39	1.0	--- U	--- U	--- U	--- U	--- U
44. 1,2-Dichlorobenzene	0.32	5.0	--- U	--- U	--- U	--- U	--- U
45. 1,2-Dibromo-3-Chloropropane	0.34	13.0	--- U	--- U	--- U	--- U	--- U
46. Acrylonitrile	2.72	200.0	--- U	--- U	--- U	--- U	--- U
47. trans-1,4-Dichloro-2-Butene	0.42	100.0	--- U	--- U	--- U	--- U	--- U

J = Between MDL and SWSL, U = Below ALL Quanititation Limits.

Environment 1, Inc.
P.O. Box 7085, 114 Oakmont Dr.
Greenville, NC 27858

Phone (252) 756-6208 • Fax (252) 756-0633

CHAIN OF CUSTODY RECORD

CLIENT: 6017 **Week:** 32

WEYERHAEUSER, NEW BERN (LANDFILL)
MR. STEVE DIPIERO
1785 WEYERHAEUSER RD.
VANCEBORO NC 28586

(252) 633-7633

DISINFECTION
- ☐ CHLORINE
- ☐ UV
- ☐ NONE
- ☐ _____

SAMPLE LOCATION	COLLECTION DATE	COLLECTION TIME	TOTAL CHLORINE, mg/l OR ug/l AT COLLECTION	TEMPERATURE, °C AT COLLECTION	# OF CONTAINERS	Field pH	Sulfate	Metals	Conductivity	Temperature	Field Parameter	EPA 8260B	8260 Dup. 1	8260 Dup. 2
								<2				<2	<2	<2
						P	P	P	P	P		G	G	G
						A	A	A	A	A		E	E	E
Leachate Canal 08	30 11	1008		24	6	G	G	G	G	G		G	G	G
OWS1 08	30 11	1128		24	6	G	G	G	G	G	G	G	G	G
OWS2 08	30 11	0938		25	6	G	G	G	G	G	G	G	G	G
OWS3 08	30 11	1059		27	6	G	G	G	G	G	G	G	G	G
OWD1 08	30 11	0958		21	6	G	G	G	G	G	G	G	G	G

CHLORINE NEUTRALIZED AT COLLECTION

pH CHECK (LAB)

CONTAINER TYPE, P/G

CHEMICAL PRESERVATION

PARAMETERS

A - NONE
B - HNO_3
C - H_2SO_4
D - NAOH
E - HCL
F - ZINC ACETATE
G - NA THIOSULFATE

CLASSIFICATION:
- ☐ WASTEWATER (NPDES)
- ☐ DRINKING WATER
- ☐ DWQ/GW
- ☒ SOLID WASTE SECTION

CHAIN OF CUSTODY MAINTAINED DURING SHIPMENT/DELIVERY
Y N

SAMPLES COLLECTED BY:
(Please Print)
[illegible]

SAMPLES RECEIVED IN LAB AT 02 °C

RELINQUISHED BY (SIG.) (SAMPLER)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
[illegible]	083011	[illegible]	8/30 220
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME
RELINQUISHED BY (SIG.)	DATE/TIME	RECEIVED BY (SIG.)	DATE/TIME

COMMENTS:

PLEASE READ Instructions for completing this form on the reverse side.

Sampler must place a "C" for composite sample or a "G" for

No 225911

Sampled By ☐ Bob Hilgoe ☑ Bobby Fox	Facility NEW BERN NC	Site ID 6017
Other:	Project No.	Date (m/d/y) 08-30-11

Site Description X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp. 74 ☐ °C ☑ °F Weather: CLOUDY

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed:

x TOC Description:

TOC Stickup: 2.17 ft. above/below ground Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 26.43

x E-Tape, # 2 ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	0939	0939	0940	0948	0954	0958	
Depth to Water	8.00	8.00	8.00	9.08	9.09	9.09	
Tape Correction							
Water Level (WL)	8.00	8.00	8.00	9.08	9.09	9.09	
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 8.00 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [26.43 (TD) - _____ (WL)] • [_____ (Well ID)]^2 • [_____ (Conversion Factor)] = 3.01 gals Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in Inches

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	0944	0948	0954					
pH (Temperature Corrected? ☐)	6.70	6.65	6.6				OAKTON	4.0/7.0/10.0 Buffers
Temperature, °C	22	22	21					
Dissolved Oxygen mg/L								
S Conductivity µS/cm	614	645	632				OAKTON	1413 498
Turbidity ☐ NTU								
Color/Tint	NO	NO	NO					
Odor	NO	NO	NO					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 imperial gallon

Sample Data Sample Depth: 9.09 ☐ Grab ☐ Bailer X Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
OWD1		08-30-11	0958	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Spill Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, spill, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) HILGOE / FOX Signature Bob Hilgoe

Sampled By ☑ Bob Hilgoe ☑ Bobby Fox	Facility NEW BERN N.C.	Site ID 6017
Other:	Project No.	Date (m/d/y) 08/30/11

Site Description X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 74 ☐ °C ☐ °F Weather: ~~CLEAR~~ CLOUDY

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed:

x TOC Description:

TOC Stickup: 2.17 ft. above/below ground Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 14.36

x E-Tape, # 2 ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	0922	0922	0923	0930	0934	0938	
Depth to Water	7.84	7.84	7.84	8.38	8.37	8.37	
Tape Correction							
Water Level (WL)	7.84	7.84	7.84	8.38	8.37	8.37	
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 7.84 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [14.36 (TD) - _____ (WL)] • [_____ (Well ID)]^2 • [_____ (Conversion Factor)] = 1.04 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1.04	2.08	3.12					
pH (Temperature Corrected? ☐)	0926	0930	0934					
Temperature, °C	6.6	6.5	6.6				OAKTON	4.0/7.0/10.0 Buffers
Dissolved Oxygen mg/L	26	25	25					
S Conductivity µS/cm								
Turbidity ☐ NTU	828	824	812				OAKTON	1413 498
Color/Tint								
Odor	NO	NO	NO					
	NO	NO	NO					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 imperial gallon

Sample Data Sample Depth: 8.37 ☐ Grab ☐ Bailer X Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
OWS2		08/30/11	0938	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) H. Lgoe / Fox	Signature Bob H Lgoe

Date Entered Into Database _____ By _____

Sampled By ☑ Bob Hilgoe ☑ Bobby Fox Other:	Facility NEW BERN N.C. Project No.	Site ID 6017 Date (m/d/y) 08/30/11

Site Description X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 74 ☐ °C ☑ °F Weather: CLOUDY

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed:

x TOC Description:

TOC Stickup: 2.29 ft. above/below ground Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 16.23

x E-Tape, # 2 ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1017	1017	1018	1025	1029	1034	
Depth to Water	6.98	6.98	6.98	10.49	10.66	10.66	
Tape Correction							
Water Level (WL)	6.98	6.98	6.98	10.49	10.66	10.66	
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 6.98 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [16.23 (TD) - _____ (WL)] • [_____ (Well ID)]^2 • [_____ (Conversion Factor)] = 0.30 gals

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

Well Goes Dry While Purging ☐

☐ Cum. Vol. Purged ☐ Pumping Rate						(Final)	Meter Type	Remarks
	0.30	0.60	0.90					
Time (hh:mm; 24-hr clock)	1020	1025	1029					
pH (Temperature Corrected? ☐)	6.07	6.03	6.0				OAKTON	4.0/7.0/10.0 Buffers
Temperature, °C	27	27	27					
Dissolved Oxygen mg/L								
S Conductivity µS/cm	469	469	487				OAKTON	1413 498
Turbidity ☐ NTU								
Color/Tint	NO	NO	NO					
Odor	NO	NO	NO					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 imperial gallon

Sample Data Sample Depth: 10.66 ☐ Grab ☐ Bailer X Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
OW53		083011	1034	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: PO, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) H. Lgoe / Fox	Signature Bob H Lgoe

Sampled By ☑ Bob Hilgoe ☑ Bobby Fox	Facility NEW BERN N.C.	Site ID 6017
Other:	Project No.	Date (m/d/y) 08/30/11

Site Description X Monitoring Well ☐ Extraction Well ☐ Irrigation Well ☐ Spring ☐ Borehole ☐ Probe Other:

Air Temp: 77 ☐ °C ☑ °F Weather: CLOUDY

Well Locked? ☑ yes ☐ no Damaged/Repairs Needed:

x TOC Description:

TOC Stickup: ft. above/below ground Well Inside Diameter (ID): x 2-inch ☐ 4-inch Other:

Site Remarks (nearby wells pumping, tide, stream stage, etc.)

Water Level Data Measurement Units: ft. Well or Borehole Total Depth (TD) from TOC: 13.96

x E-Tape, # 2 ☐ Steel Tape ☐ Other	Pre-Purge Initial	Pre-Purge Confirmation	Purging Start	During Purging	Purging End	After Sampling	Remarks
Time (hh:mm; 24-hr clock)	1112	1112	1113	1120	1124	1128	
Depth to Water	3.29	3.29	3.29	3.37	3.35	3.37	
Tape Correction							
Water Level (WL)	3.29	3.29	3.29	3.37	3.35	3.37	
Product Thickness							
Product Recovery ☐ gallons ☐ liters							

Measure water level from fixed measuring point (MP) or top of well casing (TOC). Record water depth to nearest 0.01 ft or 0.002 m, with minus (-) sign if level is above MP or TOC. If no mark on MP or TOC, measure water level from north side of casing. Measure static or pre-purging water level twice; record initial and confirmation measurements and measurement times (in 24-hour clock format). MP/TOC Stickup measurement is from ground surface to nearest 0.1 ft or 0.01 m. Depth to Water codes: N - not measured; D - dry; O - obstructed; P - pumping; F - flowing (artesian well); R - recently pumped; C - cascading. Water Level (WL) = Depth to Water - Tape Correction factor. Record free product presence at time of water level measurement; use "S" for free product thickness if sheen observed. If free product removed from well, record volume removed in gallons or liters, list product type in "Remarks" column.

Field WQ Data Purge Depth: 3.29 ☐ Grab ☐ Bailer X Pump Description:

Casing Volume: [13.96 (TD) - _____ (WL)] • [_____ (Well ID)]^2 • [_____ (Conversion Factor)] = 1.74 gals Well Goes Dry While Purging ☐

Conversion Factor = 0.0408 for feet and gallons; 0.1544 for feet and liters; 0.5066 for meters and liters; Well ID in inches

☐ Cum. Vol. Purged ☐ Pumping Rate	1.74	3.48	5.22			(Final)	Meter Type	Remarks
Time (hh:mm; 24-hr clock)	1116	1120	1124					
pH (Temperature Corrected? ☐)	6.57	6.38	6.3				OAKTON	4.0/7.0/10.0 Buffers
Temperature, °C	24	24	24					
Dissolved Oxygen mg/L								
S Conductivity µS/cm	416	319	290				OAKTON	1413 498
Turbidity ☐ NTU								
Color/Tint	NO	NO	NO					
Odor	NO	NO	NO					

Record time purging starts and ends in "Purging Start" and "Purging End" columns in Water Level Data section. Cum. Vol. Purged: cumulative volume removed before sampling, in gallons or liters. Pumping Rate is gpm or Lpm, depending on box checked in casing volume calculation. Use "Final" column above for recording sample field measurements, total volume purged before sampling or average pumping rate during purging. Record equipment calibration methods, decontamination procedures, equipment failures, purge water disposal method, etc. in daily field notes. SC: Specific Conductance corrected for temperature (µS/cm at 25°C); EC: Electrical Conductivity not corrected for temperature (µS/cm). µS/cm = µmho/cm. 1 gallon (US) = 3.785 L = 0.833 imperial gallon

Sample Data Sample Depth: 3.37 ☐ Grab ☐ Bailer X Pump Description:

Field Sample ID (unique ID on bottles)	Result Code	Date (m/d/y)	Time (hh:mm)	Bottles (total to lab)	Filtered (0.45 µm)	Lab ID	Case ID	SDG ID	Remarks
MW51		08/30/11	1128	6					

Sample ID may be up to 15 characters. Sample Result Code, Date, and Time must be entered. Result Codes: P0, Primary Sample; D#, Duplicate Sample; S#, Split Sample (sent to second lab); BF#, Field Blank; BR#, Equipment Rinsate; BT#, Trip Blank; SF#, Field Spike (# = 1 to 9). Lab ID (up to 5 characters) is name of laboratory that will analyze the sample. Case ID (up to 5 characters) and SDG ID (sample delivery group, up to 15 characters) are required for blanks. Case ID may be the lab service request number or yy-mm. SDG may be lab's SDG, a cooler ID number, or mmddyy. Enter sample preservation and handling data on chain-of-custody form. Also record detailed information about duplicate, split, rinsate, spike, and/or blank sample collection/handling in daily field notes.

Sampler's Name (print) Hilgoe / Fox Signature Bob Hilgoe

Date Entered Into Database _____ By _____

Table of Values Which Exceed Established Standards And/Or Exceed Reporting Levels

Facility Name: WEYERHAEUSER, NEW BERN (LANDFILL) Permit #: 2502 Lab ID# 6017

Location	Collection Date	Exceeds Std	Parameter	CAS #	Result, ug/l	NC 2L STD **	NC GWP STD **	NC 2B SWS **
OWD1	08/30/2011	Y	Cobalt	7440-48-4	16		1	
OWS2	08/30/2011		Barium	7440-39-3	108	700		

** Note: NC 2L STD = NC 2L Ground Water Standard
NC GWP STD = NC Solid Waste Groundwater Protection Standard
NC 2B SWS = NC 2B Surface Water Standard

DISTRIBUTION

EVALUATION OF MONITORING DATA FROM THE CLOSED INDUSTRIAL LANDFILL AND RESIDUALS SURFACE DISPOSAL SYSTEM, WEYERHAEUSER NEW BERN, NC CELLULOSE FIBERS MILL

April 26, 2012

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