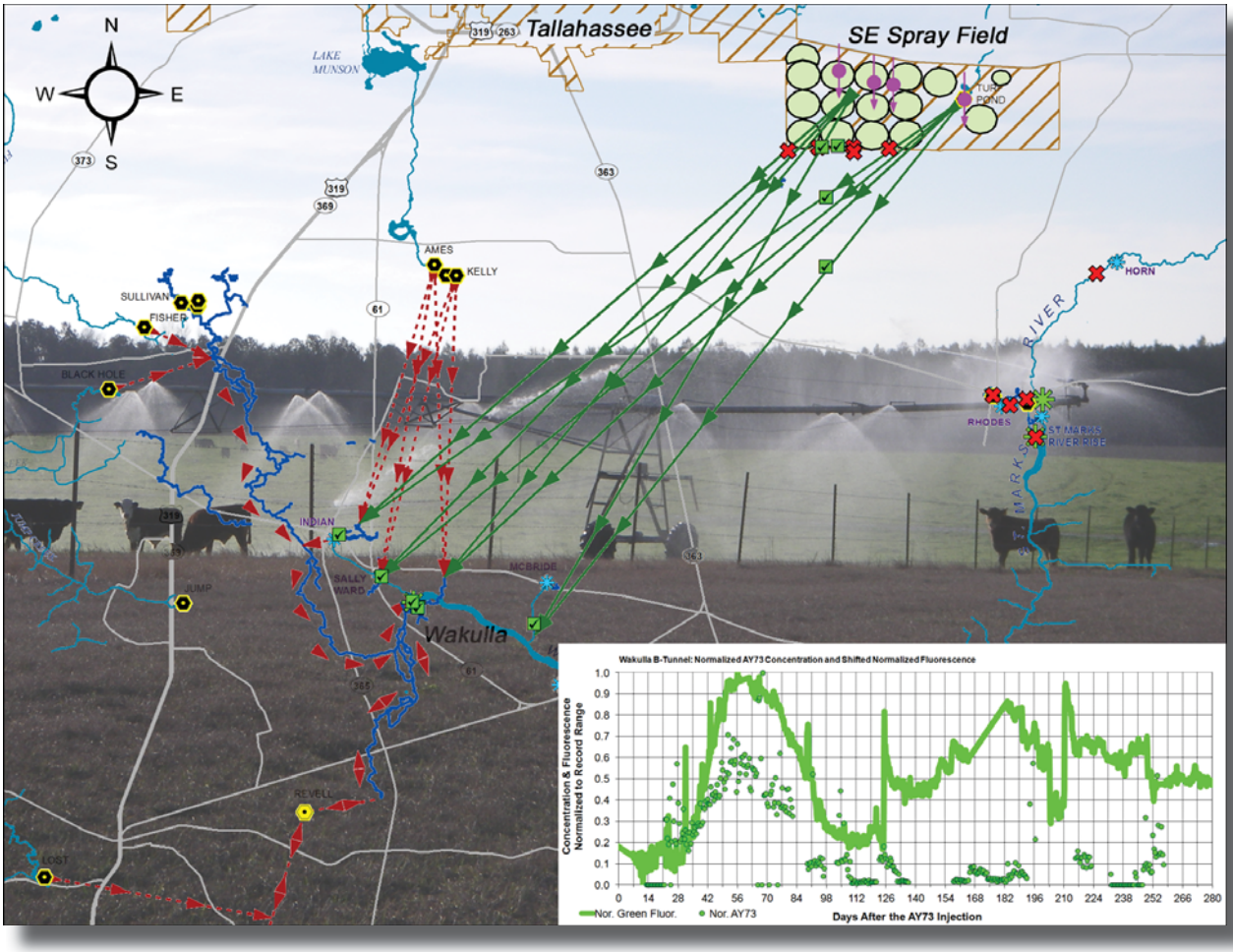
Demonstrating interconnection between a wastewater application facility and a first magnitude spring in a karstic watershed: Tracer study of the Southeast Farm Wastewater Reuse Facility, Tallahassee, Florida



Florida Department of Environmental Protection
Florida Geological Survey

Report of Investigation No. 111

CONVERSION FACTORS

This conversion table is for the convenience of readers who may prefer to use units other than those provided in the text of this report.

MULTIPLY	BY	TO OBTAIN
inch (in)	25.4	millimeter (mm)
foot (ft)	0.3048	meter (m)
mile (mi)	1 .609	kilometer (km)
gallons (gal)	3.785	liter (L)
gallons (gal)	0.003785	cubic meter (m^3)
gallons per minute (gal/min)	0.06308	liter per second (L/s)
gallons per minute (gpm)	0.0022	cubic feet per second (ft^3/s)
cubic feet per second (ft^3/s)	449	gallons per minute (gpm)
pound avoirdupois (lb)	0.4536	kilogram (kg)
millimeter (mm)	0.03937	inch (in)
meter (m)	3.281	foot (ft)
kilometer (km)	0.6214	mile (mi)
liter (L)	0.2642	gallon (gal)
cubic meter (m^3)	264.172	gallons (gal)
liters per second (L/s)	15.8503	gallons per minute (gal/min)
liters per second (L/s)	0.03531	cubic feet per second (ft^3/s)
cubic meters per second (m^3/s)	15,850.3231	gallons per minute (gal/min)
gram(g)	0.03527	ounce (oz)
kilogram (kg)	2.2046	pound (lb)

Chemical concentrations and water temperatures are given in SI units. Chemical concentration is given in milligrams per liter (mg/L) or micrograms per liter (ug/L). Milligrams per liter is a unit expressing the concentration of chemical constituents in solution as weight (milligrams) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter. For concentrations less than 7,000 mg/L, the numerical value is the same as for concentrations in parts per million (ppm). Parts per billion (ppb) is used for extremely dilute concentrations, where one ppb would equal one-one thousandth of a ppm.

Fluorescence and turbidity are herein recorded in millivolts (mV) representing raw data from the recording instruments. Fluorescent wave length, λ, is expressed in nannometers (nm). One nm is equivalent to one-millonth of a millimeter.

Water temperature is given in degrees Celsius (°C), which can be converted to degrees Fahrenheit (°F) by the following equation:

$$°F = 1.8(°C) + 32$$

Sea level: In this report, "sea level" refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929) - a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called "Mean Sea Level of 1929."

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Herschel T. Vinyard Jr., *Secretary*

REGULATORY PROGRAMS
Jeff Littlejohn, *Deputy Secretary*

FLORIDA GEOLOGICAL SURVEY
Jonathan Arthur, *State Geologist and Director*

Report of Investigation No. 111

Demonstrating interconnection between a wastewater application facility and a first magnitude spring in a karstic watershed: Tracer study of the Southeast Farm Wastewater Reuse Facility, Tallahassee, Florida

By

Todd Kincaid, Gareth Davies, Christopher Werner,
and Rodney DeHan

Published for the
FLORIDA GEOLOGICAL SURVEY
Tallahassee, Florida
2012

Florida Geological Survey
Tallahassee, FL
2012
ISSN 0160-0931

CONTENTS

Page
Abstract vi
Acknowledgements vii
Introduction 1
General Overview 1
Objectives 2
Fluorescent Tracer Test Design 2
Tracers 4
Near-Field Test 4
Intermediate-Field Test 5
Far-Field Test 7
Results: Tracer Recovery & Fluorescence Measurement 9
Analytically Measured Tracer Recovery 9
Fluorescence Curves 24
Mass Recoveries 32
Discussion 34
Flow Paths and Velocities 34
Aquifer/Matrix Interactions 35
Mass Recovery Calculations 38
Conclusions 41
References 42
Appendices - Tracer test spectrofluorophotometer data 44
Appendix 1. IS spectrofluorophotometer data 45
Appendix 2. MBE spectrofluorophotometer data 56
Appendix 3. 2006 SESF tracer test: SE10 spectrofluorophotometer data 75
Appendix 4. SJ1 spectrofluorophotometer data 94
Appendix 5. SJ2 spectrofluorophotometer data 117
Appendix 6: 2006 SESF tracer test: SWS spectrofluorophotometer data 137
Appendix 7: SWS spectrofluorophotometer data 149
Appendix 8: WKB spectrofluorophotometer data 161
Appendix 9: WKV spectrofluorophotometer data 180

FIGURES

Figure 1. Map showing the location of injections and sampling points used in the SESF tracer study relative to spring discharges, swallets, previously traced groundwater flow pathways, mapped underwater caves, and an approximation of the potentiometric surface of the Floridan aquifer system 3
Figure 2. Pictures of injection system and sampling station setup for the January 26, 2006 AR92 injections and near-field tracer study 6
Figure 3. Pictures of the AR87 and AY73 injections at Turf Pond Swallet and well SE06 on March 9, 2006 8
Figure 4. Map showing the location of positive and negative detections and the resulting tracer-defined connections from the 2006 SESF tracer study 11

Figure 5. Tracer recovery curves at well SJ1 shown by sample date (top) and by days after the respective injections (bottom) 13
Figure 6. Tracer recovery curves at well SJ2 shown by sample date (top) and by days after the respective injections (bottom) 14
Figure 7. Tracer recovery curves at well SE10 shown by sample date (top) and by days after the respective injections (bottom). 15
Figure 8. Tracer recovery curves at Wakulla B-Tunnel shown by sample date (top) and by days after the respective injections (bottom) 16
Figure 9. Tracer recovery curves at Wakulla vent shown by sample date (top) and by days after the respective injections (bottom) 17
Figure 10. Tracer recovery curves at Indian Spring shown by sample date (top) and by days after the respective injections (bottom) 18
Figure 11. Tracer recovery curves at Sally Ward Spring shown by sample date (top) and by days after the respective injections (bottom) 19
Figure 12. Tracer recovery curves at McBride's Slough shown by sample date (top) and by days after the respective injections (bottom) 20
Figure 13. Composite of normalized AY73 recovery curves for Wakulla B-Tunnel and wells SJ1, SJ2, and SE10 (top); Wakulla Vent and Sally Ward Spring (middle), and Indian Spring and McBride's Slough (bottom) 21
Figure 14. Composite of normalized AR87 recovery curves for Wakulla B-Tunnel and wells SJ1, SJ2, and SE10 (top); Wakulla Vent and Sally Ward Spring (middle), and Indian Spring and McBride's Slough (bottom) 22
Figure 15. Composite of normalized AR92 recovery curves for Wakulla B-Tunnel and wells SJ1, SJ2, and SE10 (top); Wakulla Vent and Sally Ward Spring (middle), and Indian Spring and McBride's Slough (bottom) 23
Figure 16. Fluorescence and turbidity curves measured by an IFF deployed in the middle of the open-hole interval at well SJ2 showing the raw measurements (top) and the measurements normalized to the respective record ranges relative to water level measured in the well by the USGS during part of the record period normalized in the same manner (bottom) . . . 26
Figure 17. Fluorescence and turbidity curves measured by an IFF deployed at Wakulla B-Tunnel showing the raw measurements (top) and the measurements normalized to the respective record ranges relative to flow measured in B-Tunnel measured by the FGS during part of the record period normalized in the same manner (bottom) 28
Figure 18. Fluorescence and turbidity curves measured by an IFF deployed in the middle of the open-hole interval in well SE10 showing the raw measure ments (top) and the measurements normalized to the respective record ranges (bottom) 29
Figure 19. Normalized fluorescence with AY73 and AR92 concentrations in well SE10 (top), AY73 concentrations at well SJ2 (middle), and AY73 concentrations at Wakulla B-Tunnel (bottom) 30

Figure 20. Normalized Green and Red Fluorescence and AY73, AR87, and AR92 concentrations in well SE10 relative to normalized flow in the St. Marks River measured by the USGS downstream of the River Rise during the record period. Solid lines other than flow are 5-per moving average lines, which equate to the average daily value measured at the sampling station. 31
Figure 21. Cumulative AY73 (top) and AR87 (bottom) tracer mass recovery curves for all spring sampling stations where the tracers were detected 33
Figure 22. Probable conduit flow zones as estimated from tracer defined groundwater flow pathways from the SESF to Wakulla, Indian, Sally Ward Springs, and McBride's Slough 36
Figure 23. Comparative travel times determined from the AR92 and AY73 tracer recovery curves for well SJ2 (top) and Wakulla B-Tunnel (middle) relative to the timing of the respective injections and water levels and flow measured in well SJ2 and the St. Marks River during the study period (bottom). 37
Figure 24. Tracer recovery curves measured for a tracer test through the Wakulla-Leon Sinks Cave System in the Woodville Karst Plain, performed in 2005 showing an apparent 80 percent reduction in mass recovery along a mapped conduit flow path leading to Wakulla Spring 39

TABLES

Table 1. Wells used for injections and sampling. 4
Table 2. SESF tracer test injection times. 5
Table 3. Natural discharge sampling locations. 8
Table 4. Estimated linear distance between injection and sampling locations for the near- and far-field tracer tests (miles). 9
Table 5. Tracer detection wavelengths (λ - nm) 10
Table 6. Summary of sampling results for all sampling stations used in the 2006 SESF tracer study. 12
Table 7. Statistics for *in situ* fluorescence measurements. 25
Table 8. Estimated tracer mass recoveries 32
Table 9. Peak tracer travel times and associated minimum groundwater velocities 34

ABSTRACT

The Florida Department of Environmental Protection Springs Initiative Program and the Florida Geological Survey initiated collaborative groundwater tracing study in 2005 in order to delineate the direction and rate of groundwater flow passing beneath the City of Tallahassee's wastewater spray field (Southeast Farm Wastewater Reuse Facility) and to identify any springs at which that groundwater discharged in the St. Marks and Wakulla watersheds. The study was carried out by Hazlett-Kincaid, Inc. (HKI), Cambrian Ground Water (CGW), and Florida State University Geophysical Fluid Dynamics Institute (FSU-GFDI) in cooperation with the City of Tallahassee and the U.S. Geological Survey.

Three tracer injections were performed in January and March of 2006 into three wells located on the northern side of the spray field and one swallet (sinking stream) located on the southeastern part of the property using the fluorescent dyes phloxine-b, uranine, and eosin. Sampling was conducted at nine wells located at and beyond the southern boundary of the property, four springs in the St. Marks River watershed, two points in the St. Marks River above Natural Bridge, and five springs in the Wakulla River watershed for a period of between two and fourteen months after the March 2006 injection. The water samples were analyzed in a laboratory for the presence and relative amount of the injected tracers.

One or more of the fluorescent dyes was detected at five of the wells and five of the springs. The springs at which the fluorescent dyes were detected include: Wakulla Spring, Sally Ward Spring, Indian Spring, and one or more of the small springs contributing to flow in McBride Slough. The fastest travel times to those springs established by fluorescent tracer breakthrough curves ranged from approximately 60-65 days after the injections with subsequent smaller pulses of tracer-laden water arriving at Wakulla Spring and McBride Slough as late as approximately one year after the injections. None of the fluorescent tracers were recovered from any of the spring and river sampling locations in the St. Marks River watershed.

The primary conclusion derived from this study was that groundwater from the City of Tallahassee's Southeast Farm Wastewater Reuse Facility primarily flows southwest to Wakulla Spring at a rate of between 671 and 977 feet per day. The additional tracer detections at Indian, Sally Ward and McBride Slough Springs are believed to be overflow from the primary conduit flow path driven by local hydraulic variations such as conduit constrictions or infilling. The traced flow paths followed the previously mapped potentiometric surface nearly directly down-gradient. More generally, the results of this study demonstrate the efficacy of dye tracing over long distances in the Floridan aquifer system.

ACKNOWLEDGEMENTS

Our ongoing work in the Woodville Karst Plain of north Florida, including this tracer study, has been funded by the Florida Department of Environmental Protection's Springs Initiative and the Florida Geological Survey. The City of Tallahassee and the U.S. Geological Survey collaborated and provided instrumental assistance with the spray field tracer test. Managers Sandy Cook and Brian Fugate of Ed Ball Wakulla Springs State Park have consistently provided the necessary access to collect data at the springs as well as accommodations and a base of operations for our researchers and assistants. Special thanks are also extended to the following people for their personal help with the work: Randy Bond, Eric Chicken, Hal Davis, Jarrod Jablonski, Cal Jamison, David Loper, Casey McKinlay, Brent Meyer and Jamie Shakar. A number of organizations assisted with property access, equipment and volunteer labor and we express our appreciation to Extreme Exposure, Inc., Friends of Wakulla Springs, Geo-Hydros, LLC, Global Underwater Explorers, Halcyon Manufacturing, St. Joe Company, U.S. Forest Service, and YMCA CIS. Florida Geological Survey staff completed the final publication formatting and review, and our thanks are extended to Jon Arthur, Doug Calman, Rick Copeland, Rick Green, Jackie Lloyd, Harley Means, Frank Rupert and Tom Scott.

Demonstrating interconnection between a wastewater application facility and a first magnitude spring in a karstic watershed: Tracer study of the Southeast Farm Wastewater Reuse Facility, Tallahassee, Florida

By
Todd Kincaid, Gareth Davies, Christopher Werner, PG #2366, and Rodney DeHan

INTRODUCTION

General Overview

The City of Tallahassee's Southeast Farm Wastewater Reuse Facility (SEF) receives secondarily treated wastewater and disperses it onto the land surface via center-pivot irrigators at an average rate of approximately 17 million gallons per day (City of Tallahassee, 2007). The system is intended to provide removal of nutrients and other contaminants through oxidation on the land surface and plant uptake from the infiltrating water. It became operational in 1981, encompassing 1,000 acres. The SEF was expanded in 1982 to 1,500 acres, in 1986 to 1,896 acres, and in 1999 to 2,159 acres (Chelette et al, 2002). Nitrate levels in groundwater monitoring wells installed in the upper Floridan aquifer system (FAS) beneath the SEF increased precipitously after the SEF became operational, rising from ~0.5 mg/L in 1980 to as much as 10 mg/L in the 1990's and stabilizing at ~6 mg/L by 2000 (Chelette et al, 2002).

During the same period, nitrate levels measured at Wakulla Spring rose from ~0.2-0.3 mg/L between 1971 and 1976, to >1.0 mg/L in the late 1980's, and then back to ~0.7-0.8 mg/L between 1998 and 2000 (Chelette et al, 2002). The increased nitrate levels are thought to be the primary cause of algae growth and enhanced *Hydrilla* growth that have resulted in significant harm to the ecosystems supported by Wakulla Spring and the Wakulla River (Hand, 2005).

Given the apparent correlation between nitrate increases in Wakulla Spring and in FAS groundwater beneath the SEF, considerable attention became focused on the SEF as a significant source of nitrate contamination to the spring by 2000. Further attention was directed toward the SEF when Chelette et al. (2002) reported nutrient budget calculations for the St. Marks and Wakulla River watersheds that attributed 40 percent of the nitrate loading in the Wakulla Springs contributory area to the SEF. The balance of the increase is thought to be from septic system operations, the application of fertilizers on lawns, and from atmospheric deposition.

In response to growing concerns about the fate of nitrate released to the FAS from the SEF, the City of Tallahassee approved a three-year study with the United States Geological Survey (USGS) to, in part, develop a model of nitrate transport through the upper FAS. In concert with that effort, the Florida Department of Environmental Protection Springs Initiative Program (FDEP-SI) and the Florida Geological Survey (FGS) initiated a collaborative groundwater tracing study that was carried out by Hazlett-Kincaid, Inc. (HKI), Cambrian Ground Water (CGW), the Florida State University Geophysical Fluid Dynamics Institute (FSU-GFDI), the USGS, and the City of Tallahassee. The purpose of the study was to identify potential groundwater flow paths between the SEF and down-gradient springs using injected artificial tracers.

The study was broken out into two separate components, each using different types of artificial tracers and conducted in parallel. HKI, CGW, and FSU-GFDI conducted two sets of tracer tests using fluorescent dyes. The USGS also conducted two sets of tests but used a bacteriophage as the tracer. This report summarizes the results of the fluorescent dye tracer tests. The bacteriophage tests were not successful (Hal Davis, USGS Tallahassee, 2006, personal communication).

Objectives

The primary objective of this study was to identify the springs in St. Marks and/or Wakulla River watersheds to which groundwater flowing from the SEF discharges and record the travel-times as defined by the lag between tracer injection and recoveries. Subordinate objectives focused on using the tracer recovery curves to evaluate hydraulic properties of the Floridan aquifer system associated with karstic conduit flow to springs. These included:

- delineation of complete or nearly-complete tracer recovery curves at the primary spring discharge(s)
- description of the probable hydraulic mechanisms responsible for the shape of those curves
- estimation of mass recoveries at all springs where the tracer(s) were recovered
- evaluation of the effectiveness of *in situ* tracer detection devices for long term groundwater tracing studies

FLOURESCENT TRACER TEST DESIGN

Groundwater tracing with artificial tracers, such as fluorescent dyes, involves adding a label to the groundwater that can be identified if that same water is sampled at a different location. The SEF traces were designed as quantitative tracer tests, which involved the injection of known quantities of tracer and the subsequent measurement of tracer breakthrough curves (the trend in fluorescence or tracer concentration from background levels to peak concentration and back to background levels) at down-gradient sampling points.

When properly designed and executed, quantitative artificial tracer tests provide the most reliable data on groundwater flow patterns and velocities that can be obtained. Breakthrough curve analysis provides for:

- increased confidence in the identification of the injected tracer
- accurate measurement of groundwater velocities using the approximate time-to-peak concentrations
- an estimate of other pertinent hydraulic properties including longitudinal dispersivity, Reynolds Number and Peclet Number
- an assessment of hydraulic conditions in conduits, interconnected pathways fractures and the rock matrix

This study involved well-to-well, well-to-spring, and swallet-to-spring types of artificial tracer experiments. Injections were performed in three wells located along the northern boundary of the SEF and in Turf Pond swallet located on the east-southeast boundary of the property (Figure 1). Complexities in the design and execution of the testing stemmed from the

large distances between the injection and the sampled spring discharges and by the lack of data describing the hydraulic conductivity of the FAS in the SEF and Woodville regions.

In order to address the complexities most effectively, tracer tests were planned for three progressively larger scales of investigation. A near-field test was designed to identify flow paths and velocities across the SEF. This test used well-to-well traces between the three injection wells located on the northern side of the SEF and nine monitoring wells distributed across the southern side of the SEF and within the property that borders the SEF immediately to the south. An intermediate scale of investigation was planned in which sinkhole-to-spring tracer tests would be performed from the Woodville region to the Wakulla-area and St. Marks area springs. Finally, a far-field test was planned to follow the two smaller scale investigations. This test design consisted of well-to-well, well-to-spring, and swallet-to-spring traces wherein the travel time data collected from the two previous studies would be used to calculate the quantity of dye and time required to successfully detect tracers injected into SEF monitoring wells and the Turf Pond swallet at the down-gradient springs.

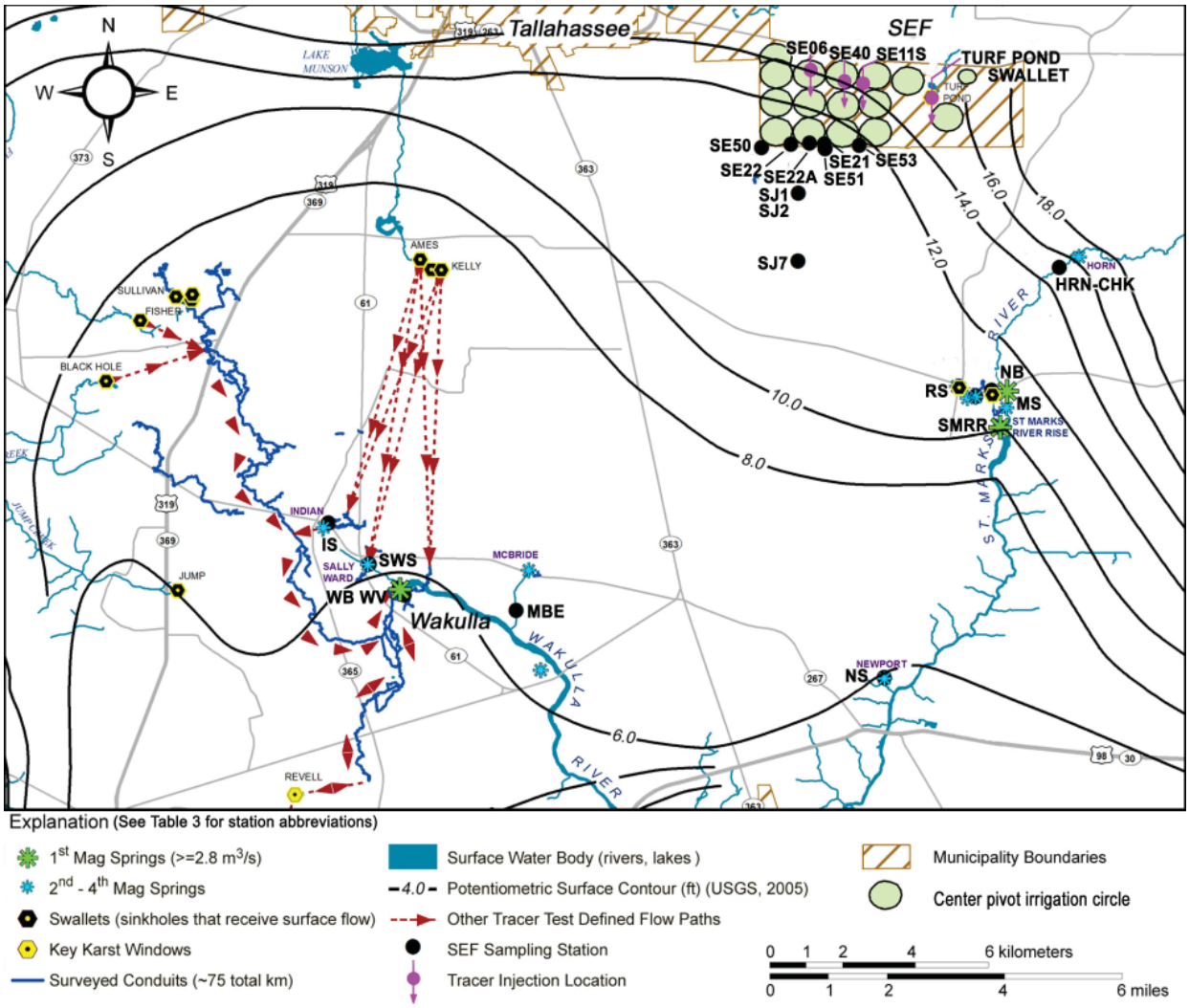


Figure 1. Map showing the location of injections and sampling points used in the SEF tracer study relative to spring discharges, swallets, previously traced groundwater flow pathways, mapped underwater caves, and an approximation of the potentiometric surface of the Floridan aquifer system.

Tracers

Three U.S. Food and Drug Administration approved fluorescent dyes were used as tracers for the SEF study: phloxine-B, or color index (C.I.) Acid Red 92 (AR92), uranine, or C.I. Acid Yellow 73 (AY73), and eosin, or C.I. Acid Red 87, (AR87). These tracers were chosen because they are environmentally harmless, are not known to adsorb to rocks and sediments, can be detected at very low concentrations (~0.01 ppb), and can be readily distinguished from one another. Three dyes were used such that the results of the near-field (well-to-well) and far-field (well-to-well, well-to-spring, and swallet-to-spring) tracer studies could be described separately for sampling stations at which all three dyes were detected.

Near-Field Test

The purpose of the near-field test was primarily to define groundwater flow pathways and velocities across the SEF by injecting a fluorescent tracer into three wells located along the northern side of the SEF and sampling for the tracer in down-gradient wells along the southern boundary and two wells located in the St. Joe Company property approximately one mile south of the boundary (Figure 1). The injection and sampling wells were chosen based on the recorded trend in nitrate concentration and the depth of the open-hole intervals in the wells. Preference was given primarily to wells showing higher nitrate concentrations and a more rapid response to documented changes in the spray field practices that would likely have had an impact on nitrate levels. Wells with the same or similar open-hole completion intervals were also considered. Table 1 provides a list of the injection and sampled wells and shows the depth of the open interval and the nitrate concentration evaluated in the selection. The older sample dates reflect a Northwest Florida Water Management District meter with earlier records.

Three injections were performed nearly simultaneously in wells SE06, SE40, and SE11S on January 26, 2006, wherein 5 kg of phloxine-B (AR92) were injected into each well (Figure 2). The

Table 1. Wells used for injections and sampling.

Well ID	Sampling Method	Open Interval (feet below land surface)	Nitrate (mg/L)	Sample Year
SE06	INJ	101 - 102	0.65	1989
SE40	INJ	164 - 194	NR	NR
SE11S	INJ	NR - 88	14.8	1989
SE50	AS, GRAB	125 - 129	0.4	1989
SE22	AS, GRAB	102 - 127	10.7	1989
SE22A	AS, GRAB	NR - 121	~4	1989
SE10	AS, IFF	124 - 133	6.19	1989
SE21	AS, GRAB	125 - 139	6.18	1989
SE51	AS, GRAB	146 - 170	NR	NR
SE53	GRAB	93 - 100	8.43	1989
SJ1	AS	190 - 240	~2	2005
SJ2	AS, IFF	75 - 137	~2	2005
SJ7	GRAB, IFF	NR	NR	NR

INJ: injection; AS: auto sample; IFF: in situ filter flourometer; GRAB: grab sampled; NR: no record.

injections were performed by mixing powdered dye with tap water into a 35-gallon container at each well and then using a siphon tube to deliver the dye/water mixture to approximately the middle of the open-hole interval. After the 35 gallons of dye/water mixture was injected, approximately 210 gallons of additional water was injected as a slug-chaser through the same tube. This was done by refilling the dye container with water and letting the siphon continue until all 210 gallons were injected. All water injected was pumped from the respective wells prior to the injection and stored in the 35-gallon containers beside the well. Injection times are provided in Table 2.

Table 2. SEF tracer test injection times.

Injection	Date	Start Time	End Time
SE06-AR92	1/26/06	14:07	15:50
SE40-AR92	1/26/06	14:40	16:30
SE11S-AR92	1/26/06	15:10	16:45
Turf Pond Sink AR87	3/9/06	10:15	10:22
SE06-AY73	3/9/06	12:00	14:00
SE40-AY73	3/9/06	13:30	15:00

Automatic water samplers were originally set up at SE22, SE22A, SE21, SE10, SE50, SE51, SJ1 and SJ2. Sample intervals were set to 2-hour intervals for approximately the first two weeks of the test. Afterwards, they were progressively adjusted to 4-hour, then 6-hour, and finally 12-hour intervals as the tracer test progressed. Equipment problems and water level declines forced the samplers at SE22, SE22A, SE21, and SE51 to be dismantled. Afterward those wells along with well SE53 and eventually SJ7 were grab-sampled at an initial interval of approximately 2-3 times per week and subsequently once per week. Automatic sampling was conducted by pumping water through a tube from approximately the middle of the open-hole interval with a small peristaltic or self-priming diaphragm pump into a bucket from which the automatic water sampler withdrew the water samples. Pumping was activated by a timer such that approximately 5-10 gallons of water were pumped into the bucket before the samples were collected. This ensured that both the tube and the bucket were sufficiently purged prior to sampling. Grab samples were taken with a weighted bailer and line such that the bailer was allowed to drop to approximately the middle of the open-hole interval before being lifted out of the well. Figure 2 provides representative pictures of the injection and sampling station setups.

Intermediate Field Test

The purpose of the intermediate-field test was to characterize groundwater flow paths and velocities in the Woodville region such that those patterns could be incorporated into the planning and design of the far-field test. FSU-GFDI and the FGS/FDEP performed a field reconnaissance in the region to identify sinkholes that could be used as potential tracer injection sites as defined by access to measurably flowing groundwater. No features could be identified that could be judged suitable for performing the intermediate-field test and the intermediate scale test was therefore abandoned. Instead, the results of the near-field test were used to facilitate an effective design of the far-field test.

Figure 2. Pictures of injection system and sampling station setup for the January 26, 2006 AR92 injections and near-field tracer study.

Far-Field Test

The purpose of the far-field test was to inject sufficient quantities of tracer into points within the SEF and detect the tracer at one or more of the down-gradient springs (Figure 1). Four injections were performed on March 9, 2006. The first injection was performed at Turf Pond swallet (Figure 1) at 10:15 AM. Sixty kilograms of eosin (AR87) were injected into the creek immediately upstream of the swallet by pouring the dye in concentrated liquid form from five-gallon containers into the creek.

The next three injections were performed consecutively in the same wells that were used for the near-field test and at the same open-hole intervals. Twenty kilograms of uranine (AY73) were injected into each well for a total of 60 kg of injected tracer. As before, the uranine dye (in concentrated liquid form) was mixed with water into a 35-gallon container beside the well and gravity-fed into the open-hole interval of the well with a siphon tube. Once the container with the dye mixture was emptied, it was refilled with clean water that had been pumped from the injection well prior to the test and siphoned into the well as a slug-chaser. That process was repeated five more times for a total chaser injection of 210 gallons. Figure 3 provides pictures of the AR87 and AY73 injection setups. Injection times are listed in Table 2.

Sampling was conducted at the same wells as were sampled for the near-field test and at ten down-gradient natural discharge points. Regular sampling was conducted at all stations for at least one month after the March 9 injections. Sampling at the most probable detection points was continued for between 9 and 13 months after the injections.

Automatic water sampling provided the primary method of sample collection. Grab samples were collected periodically from lower probability potential detection points because we did not have a sufficient number of automatic water samplers to cover all stations. Grab sampling was also used to fill in the gaps when automatic samplers failed and required servicing. Table 3 lists the sampled natural discharge points and shows how the location was sampled and the approximate elevation at the sampling point. Table 4 lists all of the sampled locations and the distance between that point and the injections locations.

In addition to the auto-samplers, in situ filter flourometers (IFF) were installed at wells SJ-2, SE10, NB, and WB. They were set up to read fluorescence in the red (AR92), green (AY73), and blue (natural fluorescence) wavelengths at 15-minute intervals. The IFF at SJ2, NB, and WB were installed immediately following the March 9 injections providing for a measure of background fluorescence at all three wavelength ranges. The IFF at SE10 was added after the completion of the initial sampling period to replace the auto-sampler. The latter could not be used due to falling water table elevations which left inadequate volumes of water available to be pumped for sampling. The IFFs at wells SJ2 and SE10 were installed directly into the well below at approximately the middle of the open-hole interval. The IFF at NB was installed in a darkened perforated pipe oriented perpendicular to the natural flow of the St. Marks River upstream of Natural Bridge such that flow was directed into the pipe at one end, past the IFF, and out the other end. The IFF at WB was installed in a darkened container next to the WB sampling station where water was pumped continuously from the well into the container.

Table 3. Natural discharge sampling locations.

Sampling Station	Station Abbrev.	Sampling Method	Surf. Elev.[1] (ft)
Horn Spring/Chicken Branch	HRN-CHK	GRAB	13
Natural Bridge	NB	IFF, GRAB	9
Rhodes Spring	RS	GRAB	14
Monroe Spring	MS	GRAB	16
St. Marks River Rise	SMRR	AS	9
Newport Spring	NS	GRAB	10
McBride Slough	MBE	AS	7
Wakulla B-Tunnel	WB	AS, IFF	17
Wakulla Vent	WV	AS	5
Sally Ward Spring	SWS	GRAB, AS	5
Indian Spring	IS	AS, IFF	5

[1]estimated feet above mean sea level from USGS 7.5 minute quadrangle

Eosin (AR87) dye headed for Turf Pond Sink.

Transporting the AR87 to Turf Pond Sink.

AR87 injection in Turf Pond Sink.

AY73 siphon injection at well SE06.

Figure 3. Pictures of the AR87 and AY73 injections at Turf Pond swallet and well SE06 on March 9, 2006.

Table 4. Estimated linear distance between injection and sampling locations for the near- and far-field tracer tests (miles).

Station ID	SE06	SE40	SE11S	Turf Pond
SE06	0.00	0.55	0.83	1.91
SE40	0.55	0.00	0.29	1.36
SE11S	0.83	0.29	0.00	1.08
SE50	1.55	1.72	1.91	2.74
SE22	1.34	1.37	1.53	2.29
SE22A	1.33	1.34	1.49	2.24
SE10	1.29	1.20	1.32	2.02
SE21	1.32	1.14	1.21	1.82
SE51	1.41	1.22	1.29	1.85
SE53	1.53	1.15	1.10	1.39
SJ1	2.17	2.08	2.16	2.63
SJ2	2.17	2.08	2.16	2.63
SJ7	3.35	3.22	3.26	3.51
HRN-CHK	5.15	4.63	4.41	3.55
NB	6.24	5.84	5.71	5.19
RS	5.98	5.61	5.50	5.06
MS	6.24	5.86	5.73	5.26
SMRR	6.89	6.50	6.37	5.85
NS	10.65	10.41	10.36	10.13
MBE	11.06	11.20	11.34	11.84
WB	10.44	10.50	10.61	10.96
WV	11.02	11.16	11.31	11.81
SWS	10.95	11.12	11.28	11.84
IS	10.81	11.03	11.21	11.84

Calculated with DeLorme *Topo US*®, version 6, mapping software.

RESULTS: TRACER RECOVERY & FLUORESCENCE MEASUREMENT

Analytically Measured Tracer Recovery

Water samples collected at each of the sampling stations were transferred to sealed five ml glass test tubes, stored in coolers and shipped to Oak Ridge, Tennessee for laboratory analysis using a scanning spectrofluorophotometer. The instrument evaluates the fluorescence of a water sample by synchronously scanning the sample with light over the spectrum of excitation wavelengths for the tracers and then measuring the wavelength spectrum that is emitted from the sample due to the fluorescence of the specific compounds (Willard et al., 1988). Each analysis scans the spectrum from 458 nm to 618 nm, which captures the entire emission wavelengths of the injected tracers and

part of the emission range generated by some of the natural fluorescent compounds present. If one or more of the dyes is present in the sample, specific peaks will be present in the emission spectrum that correspond to the respective dyes (Table 5). If none of the dyes are present, no peaks will be present at those specific locations on the emission spectrum. It will instead only document background fluorescence produced by natural compounds such as tannins and potentially other anthropomorphic compounds that produce their own fluorescence signature.

Table 5. Tracer detection wavelengths (λ - nm)

Tracer	Min	Max	Ideal
AR92	555	565	562
AR87	533	550	537
AY73	512	525	514

At higher tracer concentrations, the emission peak for the respective dyes more closely approximates, or is slightly higher than, the ideal emission peak for that compound. At lower tracer concentrations, particularly in waters with high natural fluorescence such as most waters in the Woodville Karst Plain (WKP), the variance in the emission peak wavelength increases due to the presence of other fluorescent compounds with similar emission peak wavelengths. Thus, "recovery" of the tracers is not only predicated on the detection of the tracer compound in any specific water sample but more precisely on the detection and measurement of the tracer in many sequential samples wherein the measured concentrations plot in the form of a breakthrough curve that marks the passage of the tracer at the sampling station.

The AY73 and AR87 tracers from the far-field test were detected at relatively high concentrations at both Wakulla B-Tunnel and Wakulla vent. Smaller quantities were also detected at Indian and Sally Ward Springs, and McBride Slough. Very low levels of the AR92 tracer from the near-field test were also detected at all of those stations. All three tracers were detected at relatively high levels at wells SJ1, SJ2, and SE10. Lesser levels of the tracers were sporadically detected at well SE22A and SJ7 but those data were not plotted as recovery curves. Observations of water clarity and color made by SEF personnel periodically at the injection wells indicated that the tracers move fairly rapidly away from wells SE06 and SE11S but persisted for several months at SE40.

The travel times from the injection locations to Wakulla B-Tunnel, as determined by the arrival of the peak concentration on the tracer recovery curves, were approximately 65 days based on the near-field test and approximately 60 days based on both of the far-field injections. Periodic lower level detections persisted at all of the stations described above for several months and nearly a year at Wakulla B-Tunnel and Wakulla vent. None of the injected tracers were recovered at the St. Marks River upstream of Natural Bridge, Rhodes Spring, or Newport Spring. Minor fluorescence peaks within the spectral ranges for AY73 and AR92 detections were recorded at Monroe Spring and the St. Marks River Rise; however the presence of the injected tracers was not confirmed by laboratory analyses, nor were a sufficient number of detections in the form of a break-through curve recorded to indicate the presence of the injected tracers. Figure 4 shows the locations of positive and negative detections and the tracer-defined connections between the injection wells and Turf Pond swallet, and the springs where the tracers were recovered.

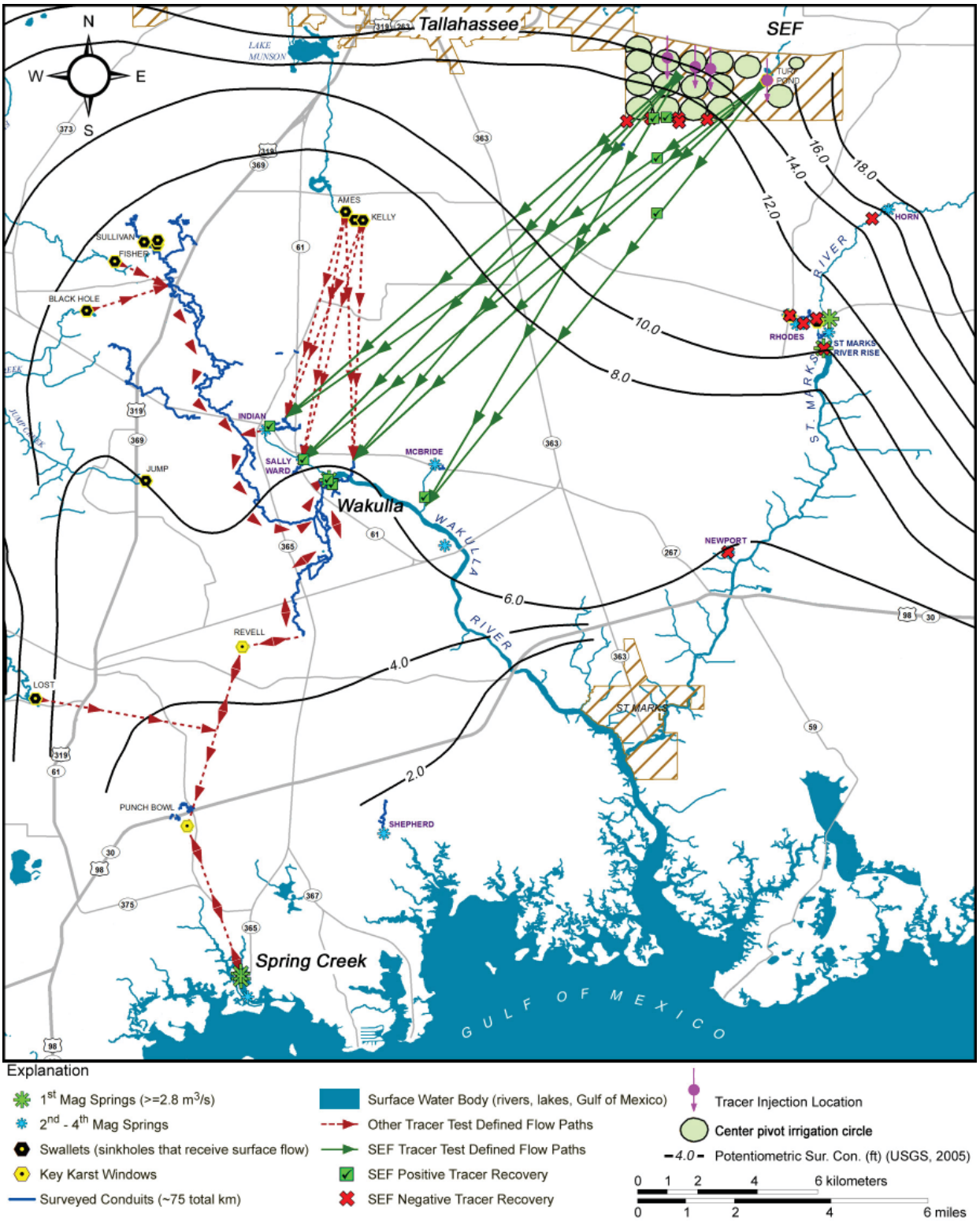


Figure 4. Map showing the location of positive and negative detections and the resulting tracer-defined connections from the 2006 SEF tracer study.

Table 6 shows the number of samples collected at each station and the number of positive detections for each of the three tracers. A full record of the positive detection data is provided in Appendix I. The tracers were considered to be "recovered" only when a sufficient number of positive detections enabled the construction of a breakthrough curve. Figures 5-12 provide breakthrough curves showing all positive detections for each of the sampling stations where one or more of the dyes were recovered. Three discrete anomalously high points, possibly due to instrument failure or "drift", were removed from the recovery curve for AR87 at the McBride Slough (MBE) sampling station (Figure 12). Those points are highlighted in Appendix I. Figures 13 - 15 provide composites of the measured breakthrough curves relative to time after the respective injections.

Table 6. Summary of sampling results for all sampling stations used in the 2006 SEF tracer study.

Station	No. Samples	First Sample	Last Sample	No. AR92	No. AR87	No. AY73	First Detect	Last Detect
SE50	192	1/26/06	11/16/06	0	4	7	4/7/06	8/30/06
SE22	149	2/3/06	4/18/06	0	0	7	NA	NA
SE22A	62	2/1/06	8/21/06	5	2	10	4/7/06	8/21/06
SE10	588	1/26/06	9/18/06	441	101	406	2/14/06	9/18/06
SE21	121	1/26/06	11/16/06	1	4	13	4/4/06	8/30/06
SE51	106	1/26/06	6/30/06	1	3	5	5/23/06	6/30/06
SE53	41	2/4/06	7/18/06	1	1	1	4/7/06	8/30/06
SJ1	613	1/26/06	11/21/06	200	452	452	2/5/06	11/21/06
SJ2	681	1/26/06	9/18/06	144	492	507	2/4/06	9/18/06
SJ7	4	4/13/06	5/3/06	0	4	0	4/13/06	5/3/06
HRN-CHK	42	2/6/06	11/16/06	0	0	0	NA	NA
NB	14	2/1/06	4/4/06	0	0	0	NA	NA
RS	50	2/1/06	11/16/06	0	0	0	NA	NA
MS	67	2/2/06	11/16/06	0	1	3	6/03/06	8/01/06
SMRR	406	1/30/06	4/27/07	0	12	12	6/14/06	3/9/07
NS	47	2/1/06	11/16/06	0	0	0	NA	NA
MBE	517	2/1/06	4/27/07	1	329	241	4/5/06	3/30/07
WB	413	2/1/06	4/12/07	27	340	341	3/23/06	4/12/07
WV	478	2/1/06	11/21/06	13	386	394	3/29/06	11/21/06
SWS	332	2/1/06	11/21/06	20	277	280	3/31/06	11/21/06
IS	339	2/2/06	9/20/06	10	240	299	3/10/06	9/20/06

NA - not applicable, no tracer detected
Total number of samples collected and analyzed: 5,262
Total number of positive tracer detections: 6,485 - note that one sample can contain 3 dyes and therefore three positive detections

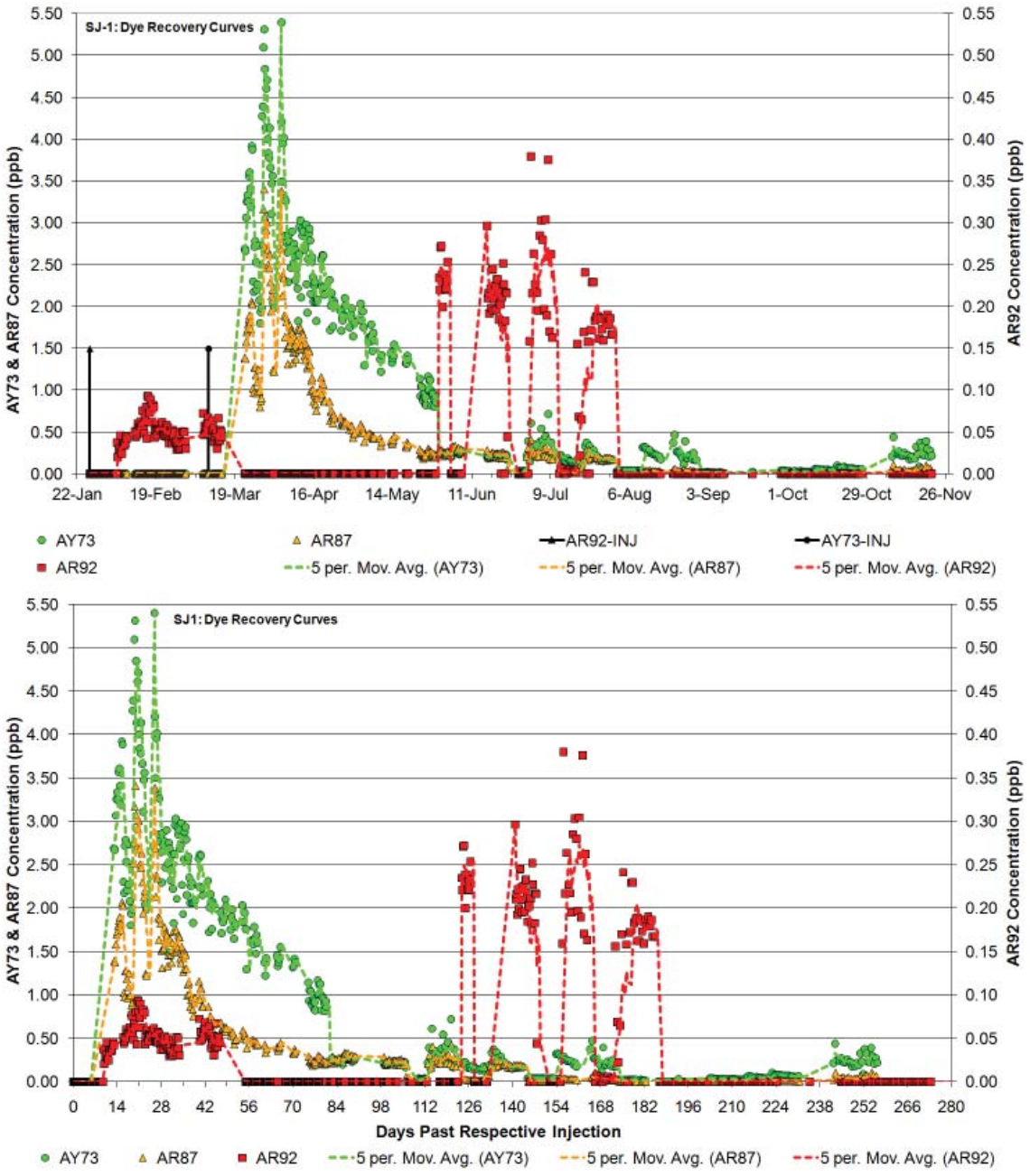


Figure 5. Tracer recovery curves at well SJ1 shown by sample date (top) and by days after the respective injections (bottom).

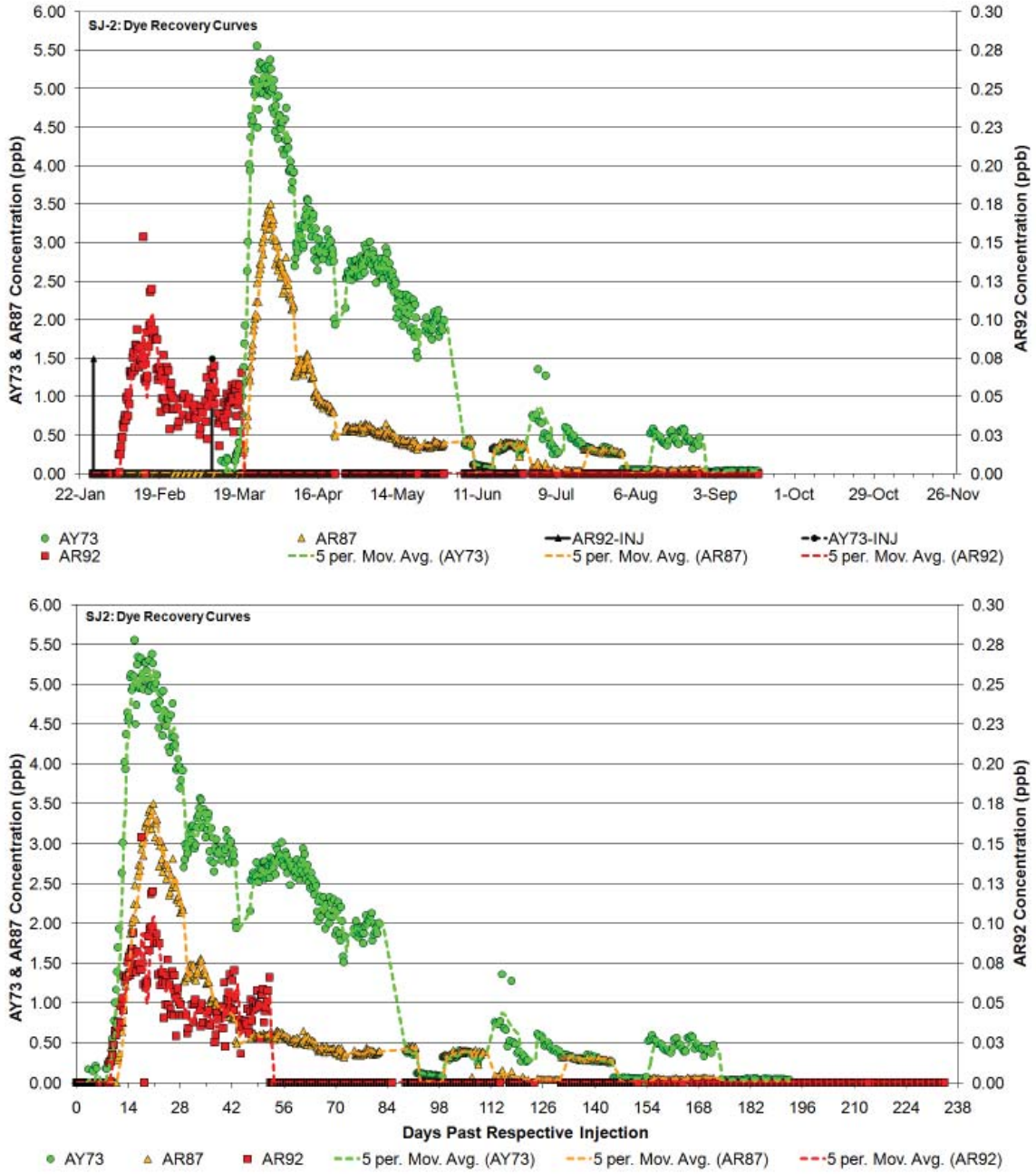


Figure 6. Tracer recovery curves at well SJ2 shown by sample date (top) and by days after the respective injections (bottom).

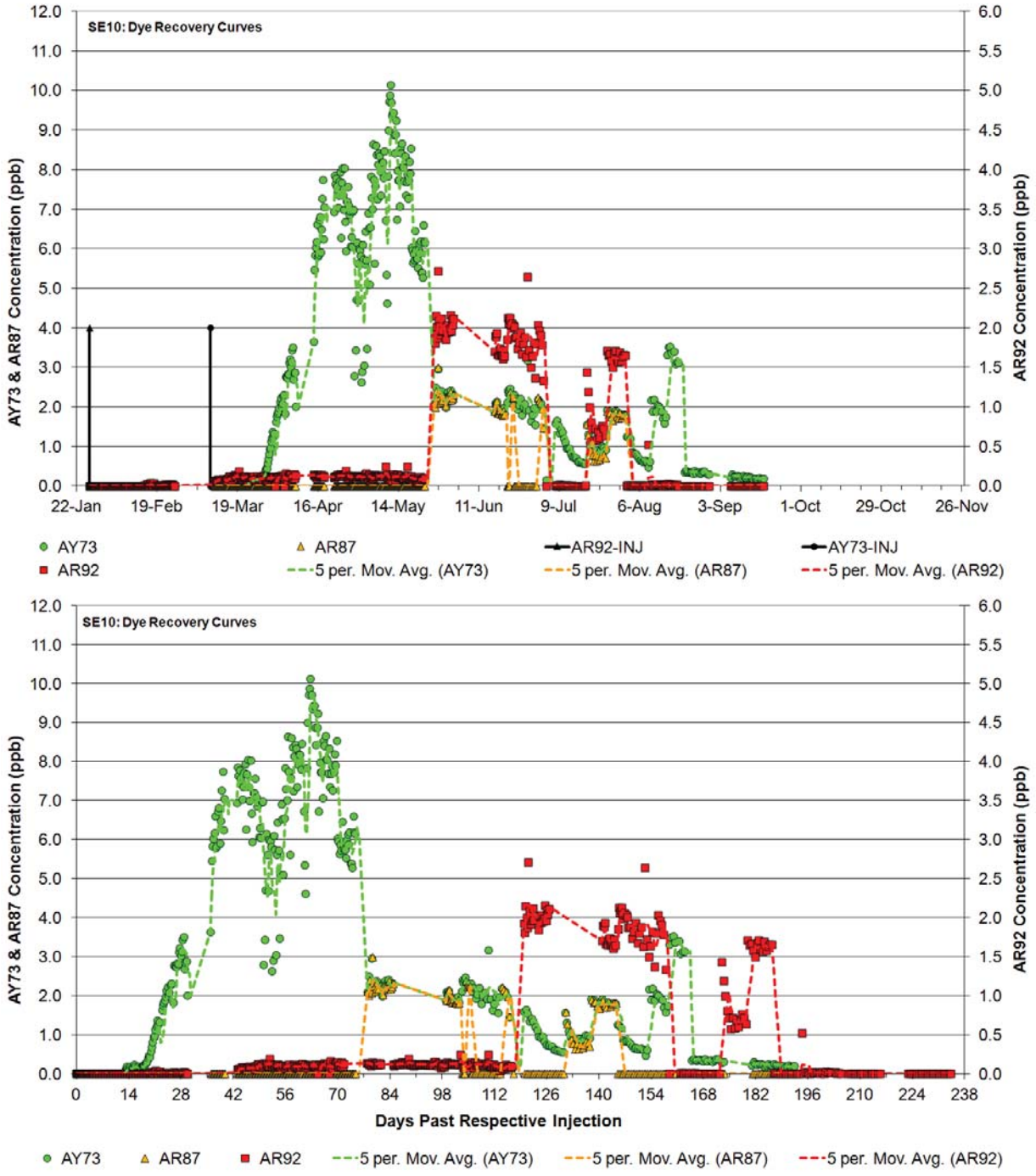


Figure 7. Tracer recovery curves at well SE10 shown by sample date (top) and by days after the respective injections (bottom).

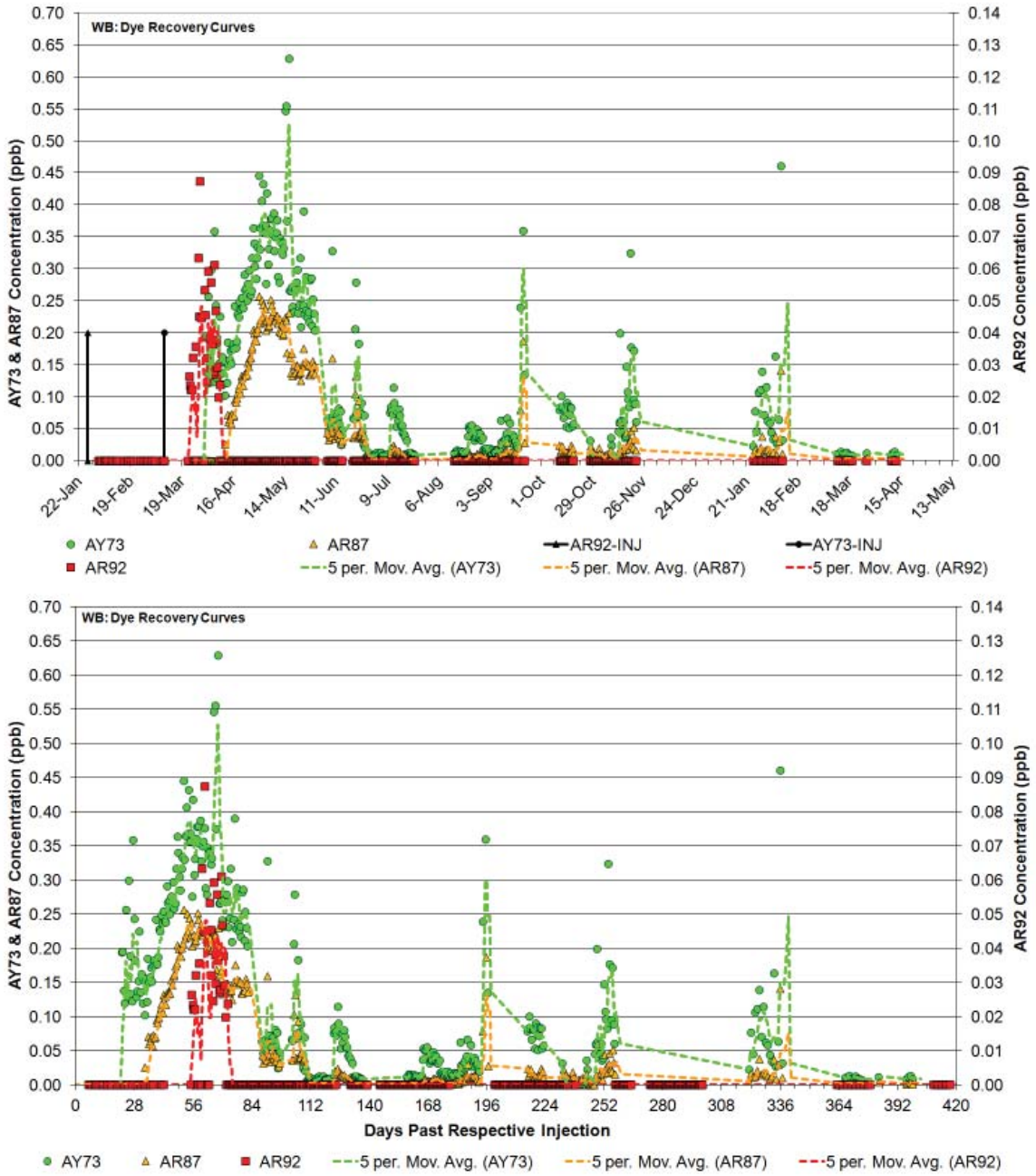


Figure 8. Tracer recovery curves at Wakulla B-Tunnel shown by sample date (top) and by days after the respective injections (bottom).

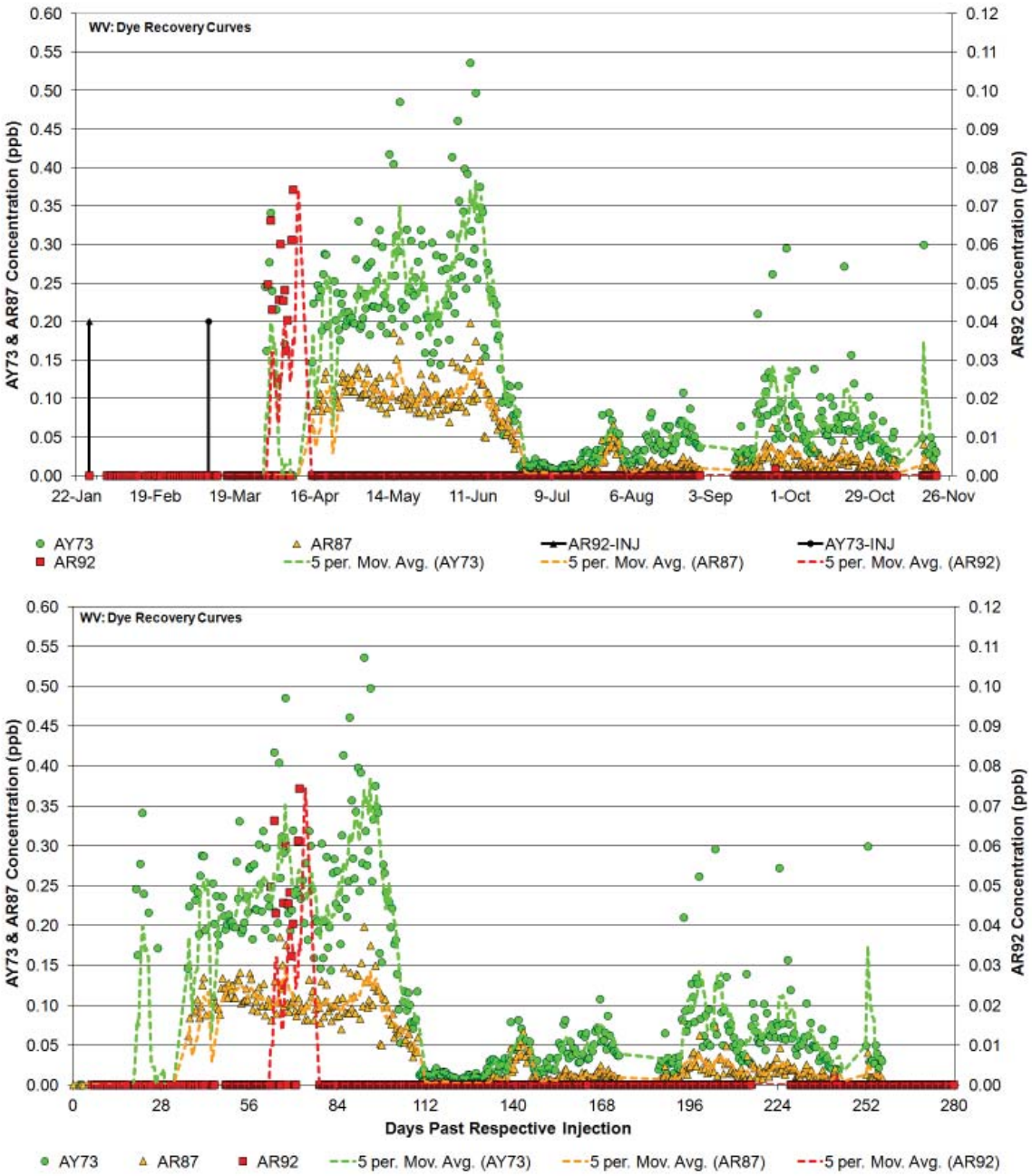


Figure 9. Tracer recovery curves at Wakulla vent shown by sample date (top) and by days after the respective injections (bottom).

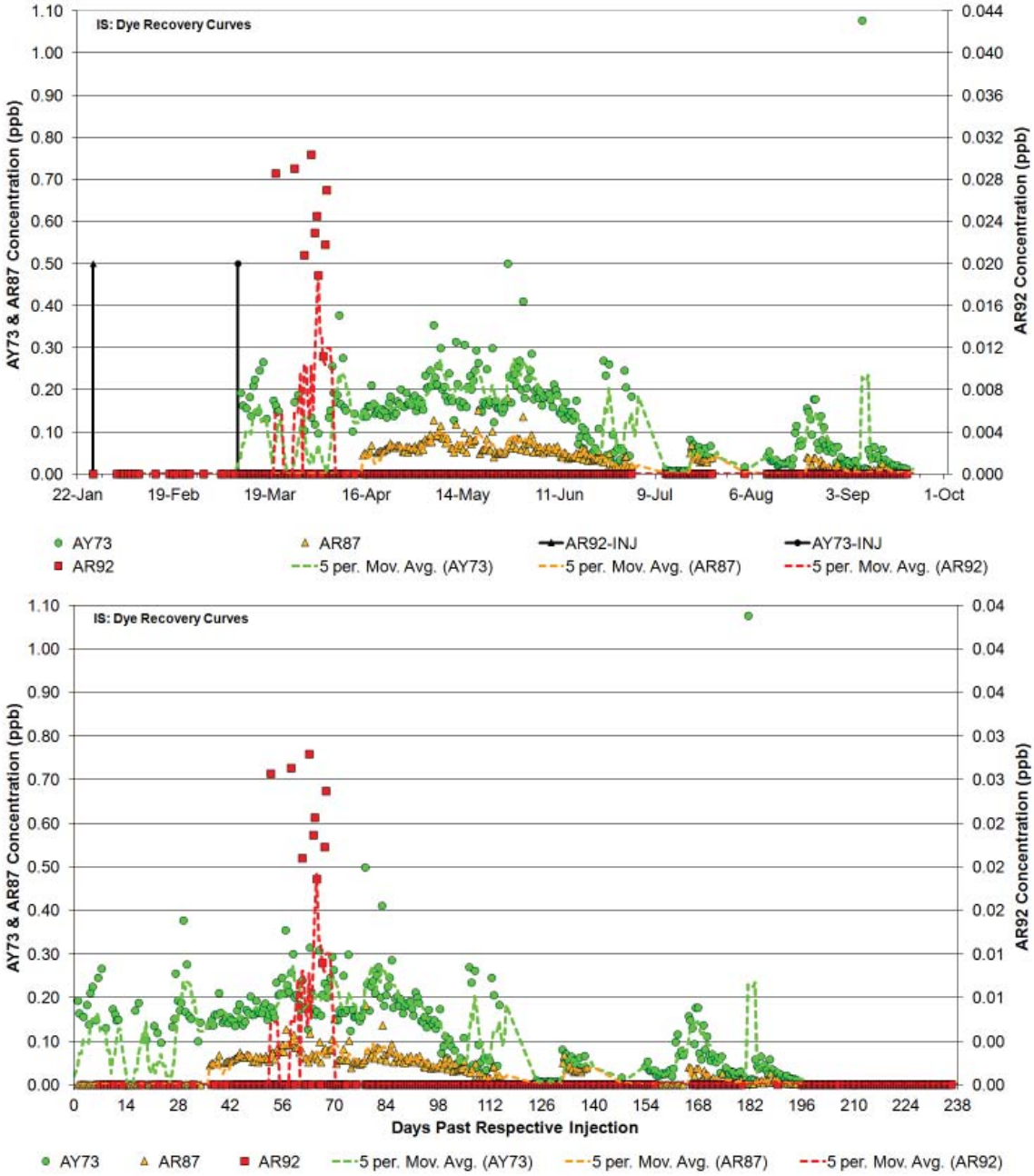


Figure 10. Tracer recovery curves at Indian Spring shown by sample date (top) and by days after the respective injections (bottom).

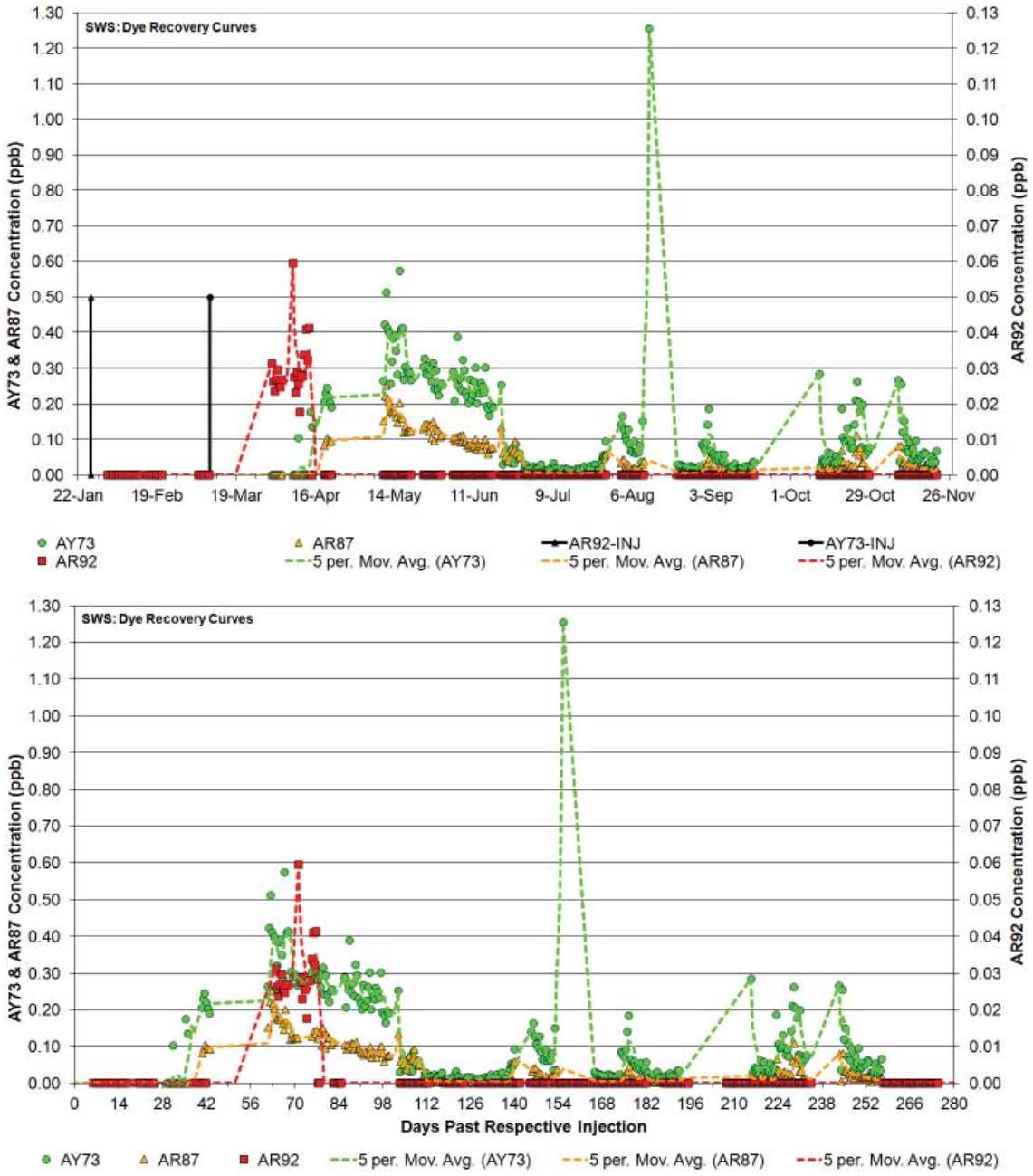


Figure 11. Tracer recovery curves at Sally Ward Spring shown by sample date (top) and by days after the respective injections (bottom).

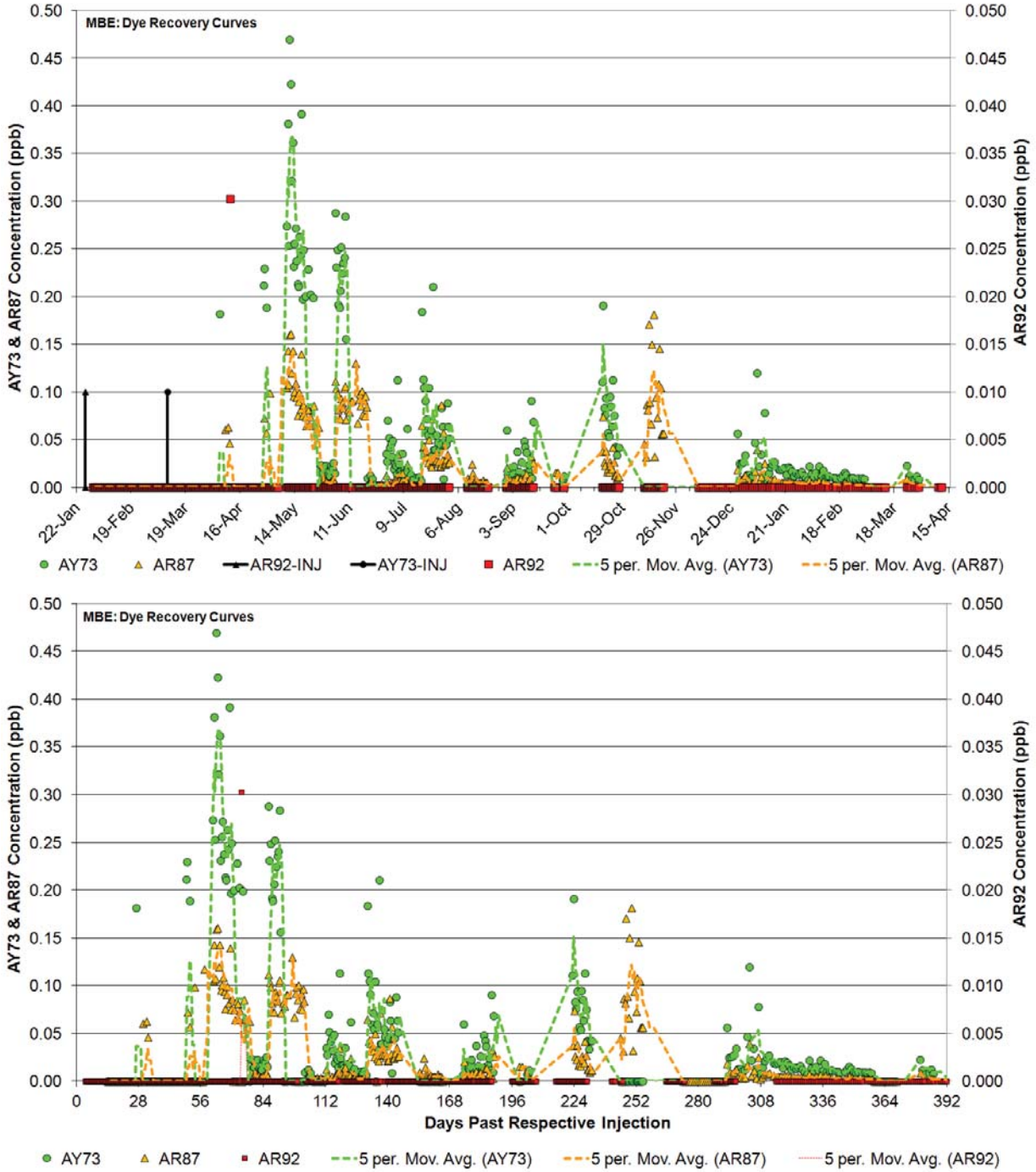


Figure 12. Tracer recovery curves at McBride Slough shown by sample date (top) and by days after the respective injections (bottom).

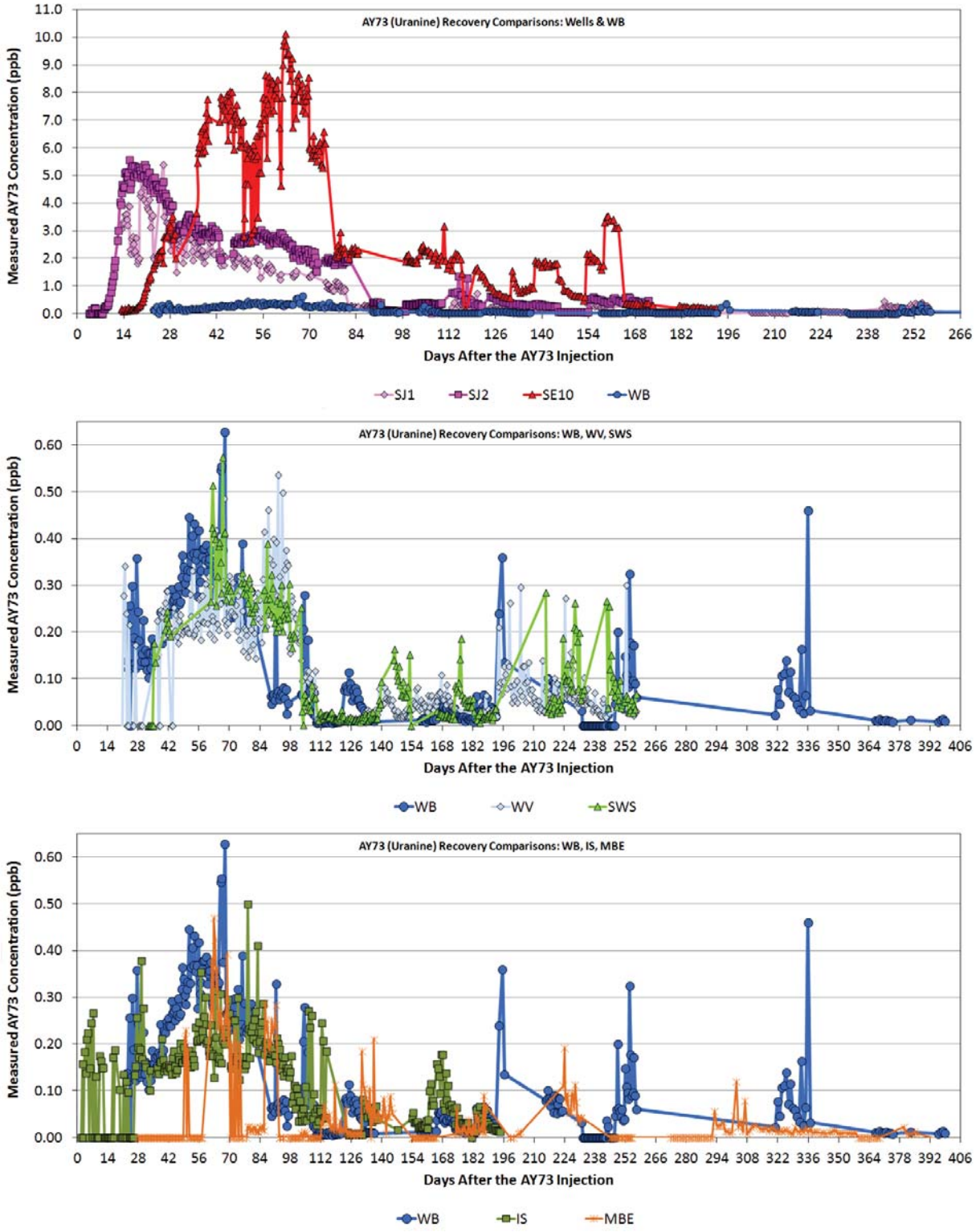


Figure 13. Composite of normalized AY73 recovery curves for Wakulla B-Tunnel and wells SJ1, SJ2, and SE10 (top); Wakulla vent and Sally Ward Spring (middle), and Indian Spring and McBride Slough (bottom).

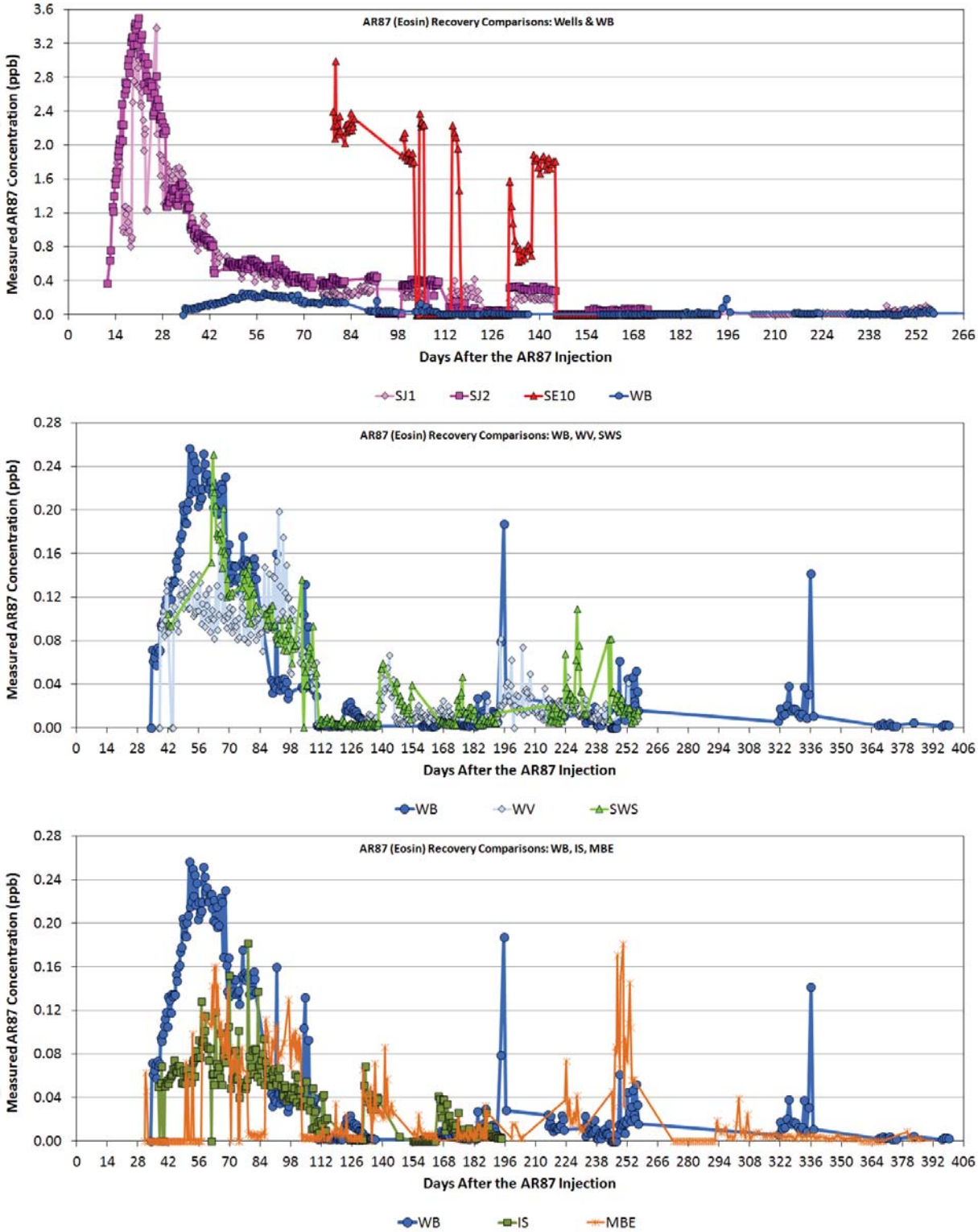


Figure 14. Composite of normalized AR87 recovery curves for Wakulla B-Tunnel and wells SJ1, SJ2, and SE10 (top); Wakulla vent and Sally Ward Spring (middle), and Indian Spring and McBride Slough (bottom).

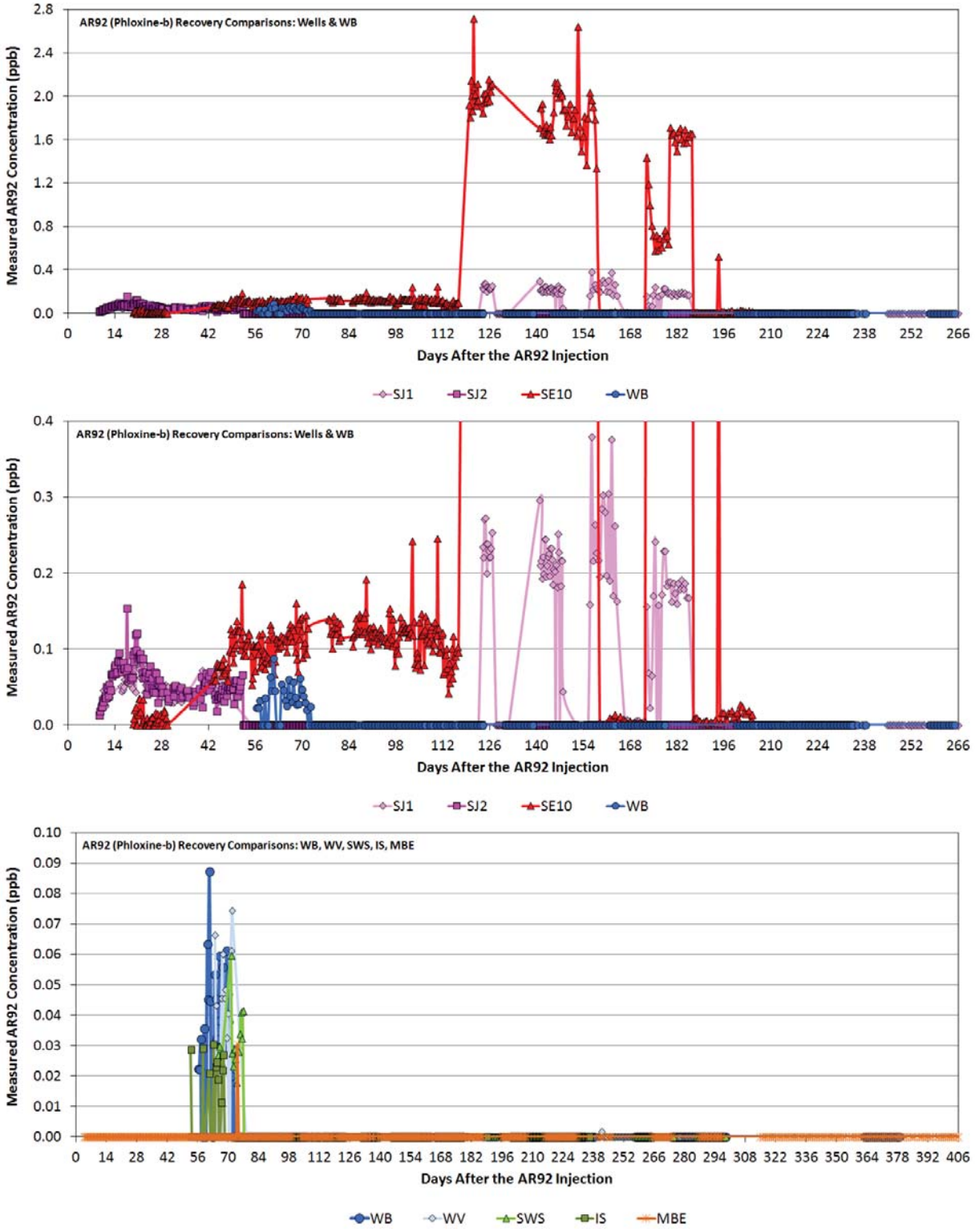


Figure 15. Composite of normalized AR92 recovery curves for Wakulla B-Tunnel and wells SJ1, SJ2, and SE10 (top); Wakulla vent and Sally Ward Spring (middle), and Indian Spring and McBride Slough (bottom).

Fluorescence Curves

Fluorescence in the emission range of the three injected tracers was measured with IFFs (Schnegg and Costa, 2002). This was done to 1) provide an independent confirmation of the breakthrough curves generated from the water samples analyzed with the spectrofluorophotometer; 2) to produce higher resolution delineations of key breakthrough curves; 3) augment sampling capacity; and 4) evaluate the potential for using IFFs as the primary sampling and analytical tools for future tracer studies. IFFs were deployed at SJ2, SE10, WB, and NB for the duration of the SEF study. The IFFs were deployed in conjunction with automatic water samplers at SJ2 and WB. Grab samples were regularly collected from NB to verify fluorescence curves and peaks recorded at the NB IFF. An IFF was deployed at SE10 but only for the late part of the study after the automatic water sampler at that location was dismantled.

The IFFs provide different information than the laboratory analysis in that they record total fluorescence in the respective emission ranges rather than only the intensity of a synchronous emission peak occurring in that range. The IFFs measure fluorescence in three narrow wavebands, as well as turbidity and temperature. The three wavebands (channels) are set up for: 1) the AY73 emission range (green channel); 2) Rhodamine WT (RWT) that we did not use but which covers the majority of the AR92 emission range (red channel); and 3) an optical brightener dye that we did not use but which also spans the same range as organic compounds including the tannins common to WKP waters (blue channel). The emission wavelength for AR87 is not measured by any of the built-in IFF fluorescence channels but the AR87 spectrum tail overlaps both the adjacent AY73 and RWT wavebands. AR87 intensity can therefore be calculated from the total fluorescence measured by the AY73 and RWT wavebands and a measure of the cross-fluorescence areas, assuming all the peaks are Gaussian (Smart and Smart, 1992). Those calculations were not, however, performed as part of this test because a sufficient number of samples were analyzed on the spectrofluorophotometer to identify the presence of AR87 if it occurred at the sampled stations.

If either AY73 or AR92 are present in the water at the time of measurement, the IFF will record the intensity of fluorescence due to those compounds plus any fluorescence in that range from other fluorescent natural compounds such as tannins, humic and fulvic acids, chlorophyll, AR87, or other anthropogenic fluorescent compounds. The IFFs are therefore significantly less precise than the spectrofluorophotometer and, because of this, water sampling and analysis was used to verify or refute any fluorescence response that could be interpreted as one of the injected tracers. The value of the IFF data is the density of measurements that can reveal significantly more detailed structure on the recovery curves. In addition, the temperature and turbidity channels provide an ability to account for natural fluorescence changes in the calculation of tracer response.

Table 7 records the deployment duration, total number of measurements recorded, and some basic statistics for each of the fluorescence bands, turbidity, and temperature for each of the four IFFs deployed during the SEF study. The raw measurements can be provided upon request. Figures 16 - 22 present the fluorescence plots from the four stations. Figure 19 provides a comparison of fluorescence measured by the IFFs and tracer concentration measured by the spectrofluorophotmeter at SJ2, WB, and SE10. All plots show the six-hour average of the original 15-minute data. For convenience, all measurements presented in the figures have been normalized to the range of records as follows:

$$Fluor_{norm} = Fluor/(Fluor_{max}-Fluor_{min});$$

where $Fluor_{norm}$ = the normalized fluorescence (mV),

Fluor = the fluorescence reading (mV),

and $Fluor_{max}$ = maximum fluorescence recorded at the sampling station (mV),

$Fluor_{min}$ = minimum fluorescence recorded at the sampling station (mV).

The green channel curve on Figure 16 marks the passage of a green fluorescent substance at well SJ-2, which was confirmed as the injected AY73 tracer by spectrofluorophotmeter analysis. The protracted tail is indicative of dispersion and possibly multiple flow paths conveying groundwater, and thus the tracer down-gradient toward the spring discharges at different velocities. Multiple flow paths were also qualitatively indicated by significant variation in the time required for the dyes to leave the injection wells. The red channel curve on Figure 16 marks the passage of a red fluorescent substance that tracked with turbidity, which is common when no dye is present in the water. AR-92 (red dye) was not confirmed through spectrofluorophotmeter analysis, though it was detected in numerous samples from SJ-2 prior to installing the IFF (see Figure 6). The blue fluorescence curve on Figure 16 marks values from the blue channel and was likely tracking natural fluorescence which appears to be related to groundwater levels measured in well SJ-2 (see bottom plot on Figure 16).

Table 7. Statistics for *in situ* fluorescence measurements.

	SJ2	SE10	WB	NB
Deployment Date:	3/10/06	8/8/06	2/8/06	3/8/06
Retrieval Date:	4/20/07	3/6/07	8/28/07	3/7/07
No. of measurements	21,148	17,277	43,130	29,018
Max Green Fluor. (mV)	5.26	3.98	8.36	9.54
Min Green Fluor. (mV)	0.64	3.52	-4.92	0.21
Max Red Fluor. (mV)	5.98	2.10	6.52	15.45
Min Red Fluor. (mV)	0.86	1.74	1.48	0.24
Max Blue Fluor. (mV)	1.47	3.14	2.80	17.40
Min Blue Fluor. (mV)	0.66	2.94	-0.92	0.15
Max Turbidity (mV):	535	521	1,386	2,486
Min Turbidity (mV):	126	415	338	85
Max Baseline (mV):	14.49	13.93	49.26	23.57
Min Baseline (mV):	13.71	13.82	13.60	13.78
Baseline STDEV (mV):	0.07	0.01	0.54	2.08
Max Temp (^{o}C):	21.46	24.11	32.59	23.77
Min Temp (^{o}C):	20.75	21.47	17.57	11.26
Temp STDEV (^{o}C):	0.05	0.02	1.05	0.12

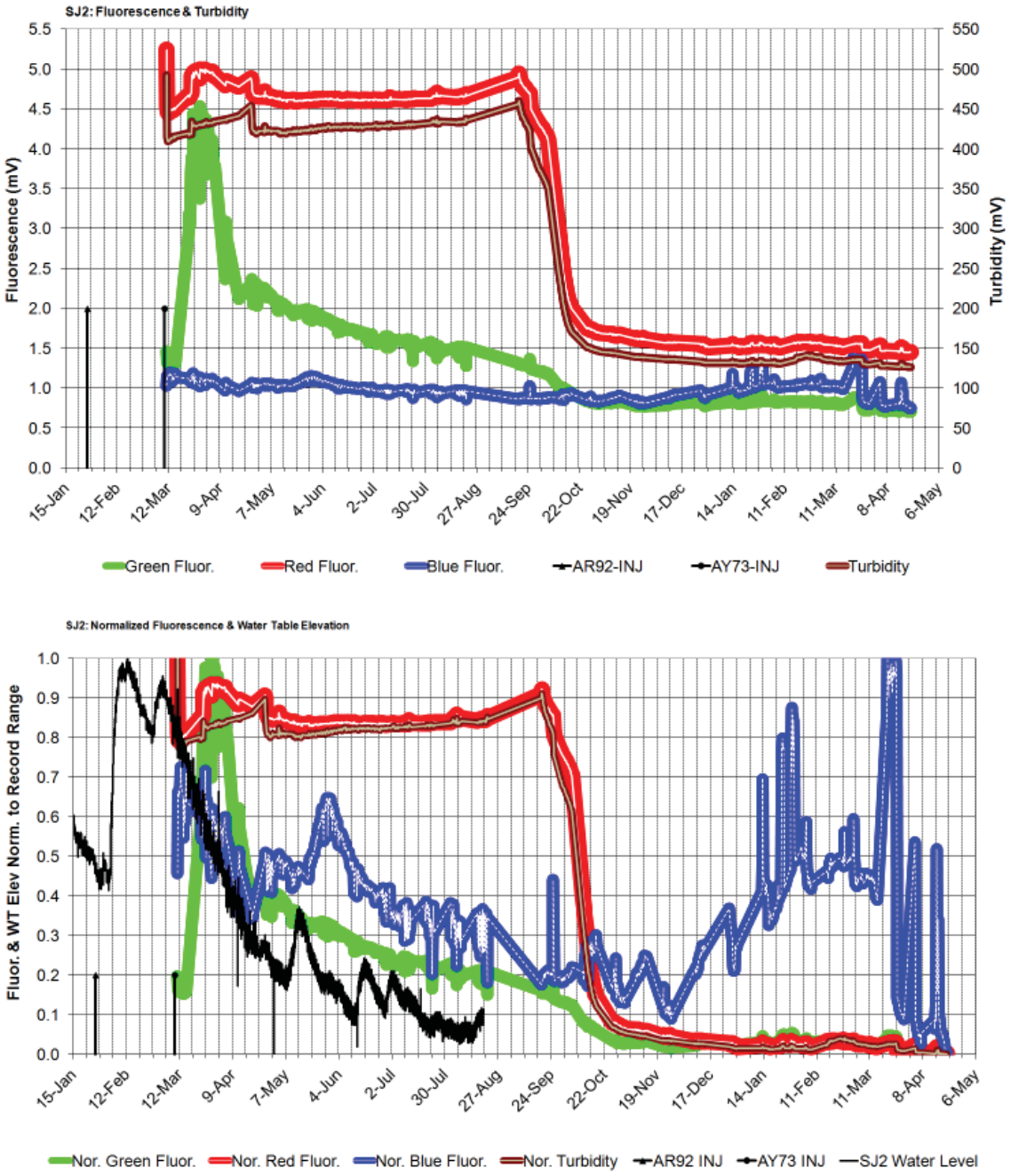


Figure 16. Fluorescence and turbidity curves measured by an IFF deployed in the middle of the open-hole interval at well SJ2 showing the raw measurements (top) and the measurements normalized to the respective record ranges relative to water level measured in the well by the USGS during part of the record period normalized in the same manner (bottom).

The green channel curve on Figure 17 marks the passage of a green fluorescent substance at Wakulla B-Tunnel between April and June 2006, which was confirmed as the injected AY73 tracer by spectrofluorophotmeter analysis. The curve is relatively Gaussian, indicating that the tracer had converged into one flow path by the time it reached B-Tunnel. The broad subsequent rise in green fluorescence is likely related to the increase in turbidity that occurred over the same time-period but several of the small peaks on the curve correspond to sporadic positive AY73 detections determined from the spectrofluorophometer analyses (Figure 13).

The red channel curve on Figure 17 marks a rise in red fluorescence in which AR92 was confirmed through spectrofluorophotmeter analyses in samples collected prior to March 2006 but not in samples collected after that time. The subsequent rises in red fluorescence that occurred after March 2006 generally tracked turbidity, though two of the rises deviate from the turbidity curve (April-May and July-August) and likely mark pulses of another fluorescent compound passing the Wakulla B-Tunnel station.

The green and red channel curves on Figure 18 respectively mark declining levels of green and red fluorescent substances in well SE10. The IFF from which these data were obtained was installed late at this location. When comparing the shape and timing of these curves with the AY73 and AR92 data obtained from the well, it appears that these curves mark the declining limbs of recovery curves for the respective tracers and are shown as such on Figure 19.

The channel curves on Figure 19 for SJ2 and WB clearly mark the passage of a green fluorescent substance, which corresponds nearly identically with the AY73 breakthrough curves measured for those stations with the spectrofluorophotometer. In SJ2, the long tailing edge in the green fluorescence curve approximates the decline in AY73 marked by periodic progressively lower concentrations measured by the spectrofluorophotometer. In B-Tunnel, the green channel recorded a near-Gaussian fluorescence curve that corresponds identically with the AY73 recovery curve. The secondary late-time curves marked in the AY73 data appear to correspond to bumps in the fluorescence curve though those become progressively harder to resolve probably due to an increase in background fluorescence associated with the fluctuations in flow recorded in B-Tunnel. The fluorescence curves for well SE10 were shifted on Figure 19 such that the magnitude of the first value equals the respective normalized dye concentrations recorded on the corresponding date. The shifted curves appear to track the tailing edge of breakthrough curves evident for AY73 and AR92 in the spectrofluorophotometer data.

Figure 20 shows sporadic peaks in the green and red channel fluorescence curves measured in the St. Marks River at Natural Bridge relative to flow measured in the St. Marks River at the USGS gauging station 02326900, located near Newport, Florida. The peaks are significantly more variable than those recorded at SJ2, WB or SE10 and were not confirmed as AR92 or AY73 by spectrofluorophotometer analysis of water samples collected from the St. Marks River Rise, which was proven to be physically connected to the St Marks Sink by underwater cave exploration (Hazlett-Kincaid, 2007). The fluorescence spikes appear to correlate to fluctuations in flow suggesting that the fluorescence spikes may be derived from contaminants in runoff entering the river during storms.

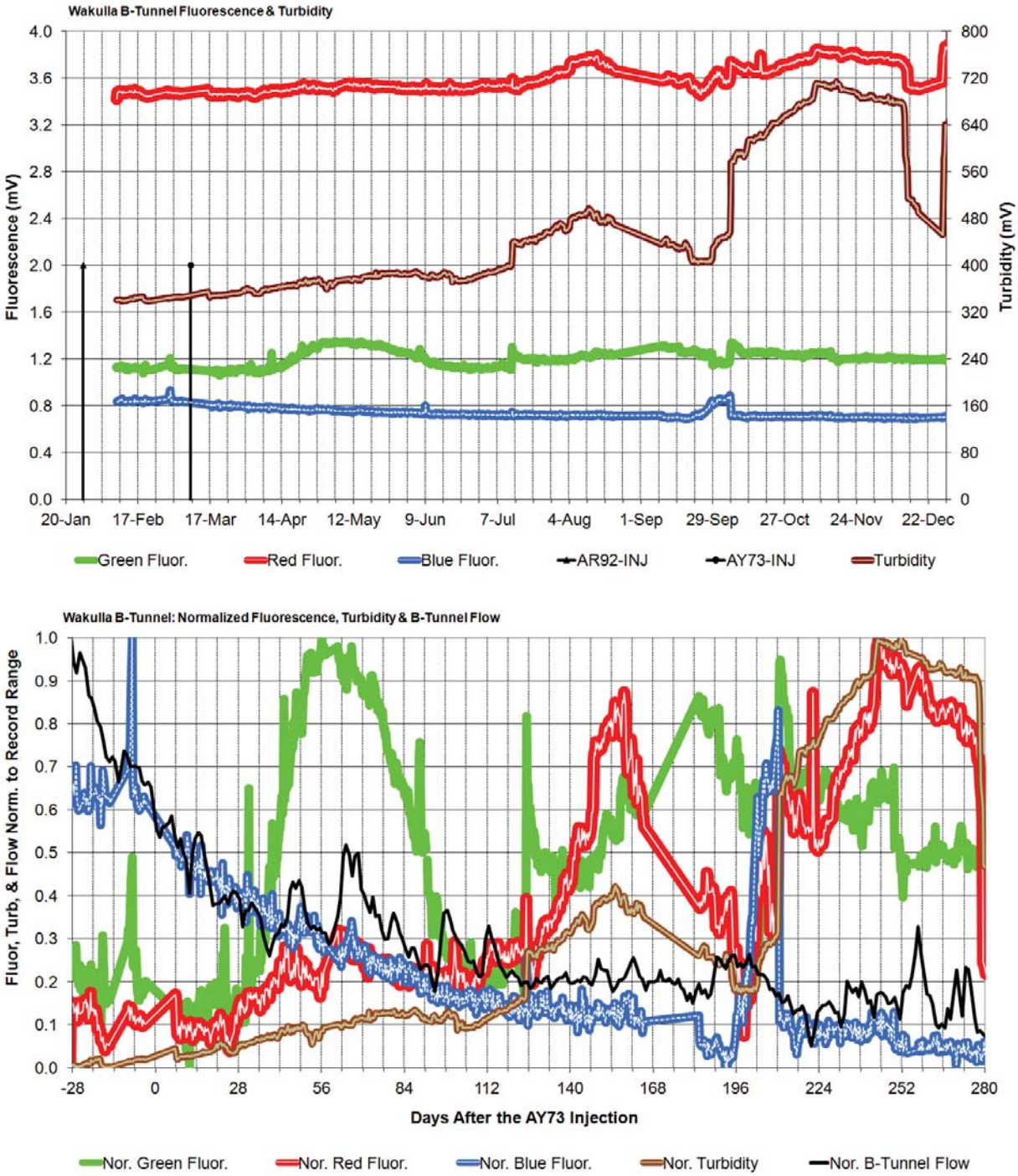


Figure 17. Fluorescence and turbidity curves measured by an IFF deployed at Wakulla B-Tunnel showing the raw measurements (top) and the measurements normalized to the respective record ranges relative to flow measured in B-Tunnel measured by the FGS during part of the record period normalized in the same manner (bottom).

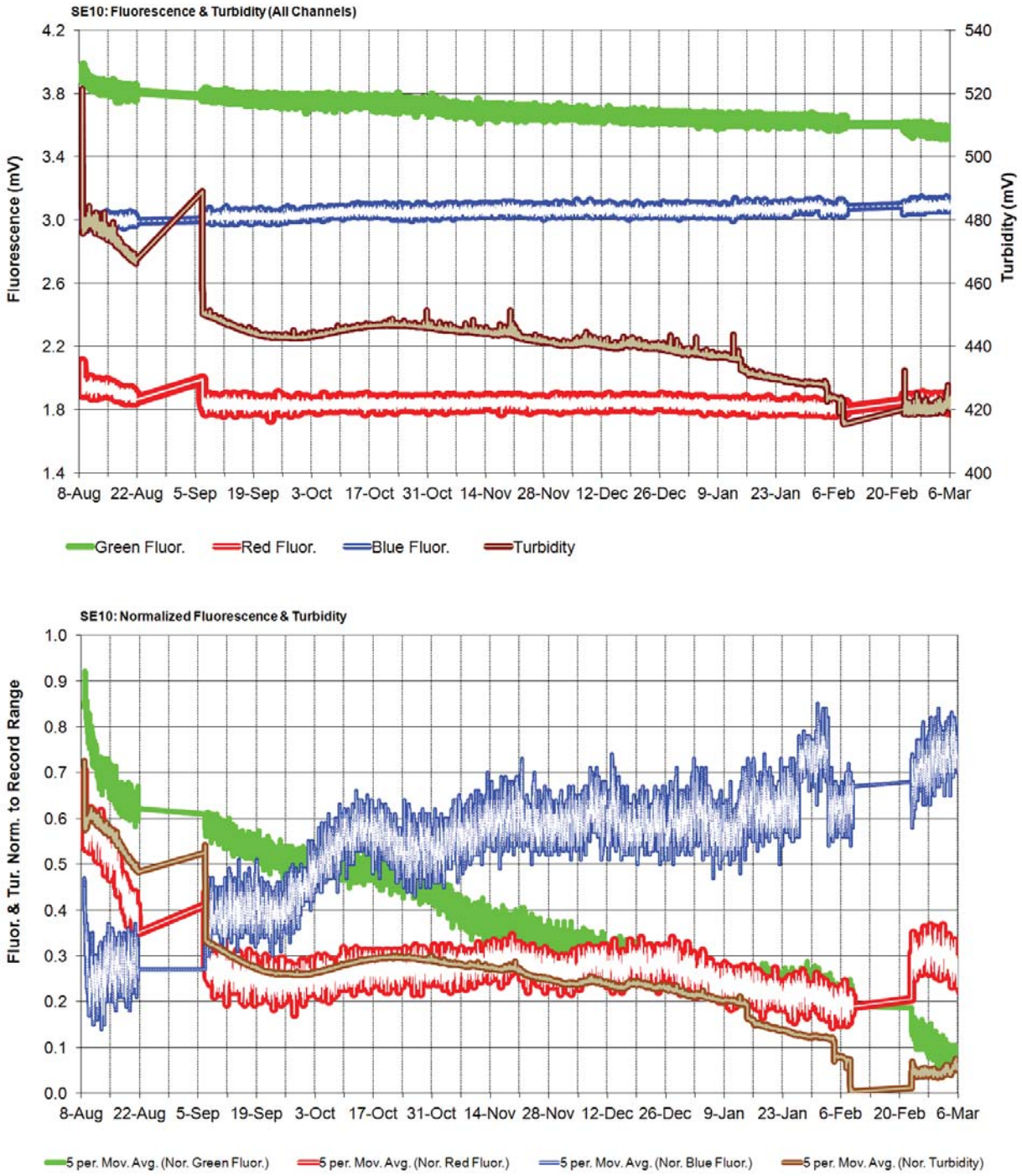


Figure 18. Fluorescence and turbidity curves measured by an IFF deployed in the middle of the open-hole interval in well SE10 showing the raw measurements (top) and the measurements normalized to the respective record ranges (bottom).

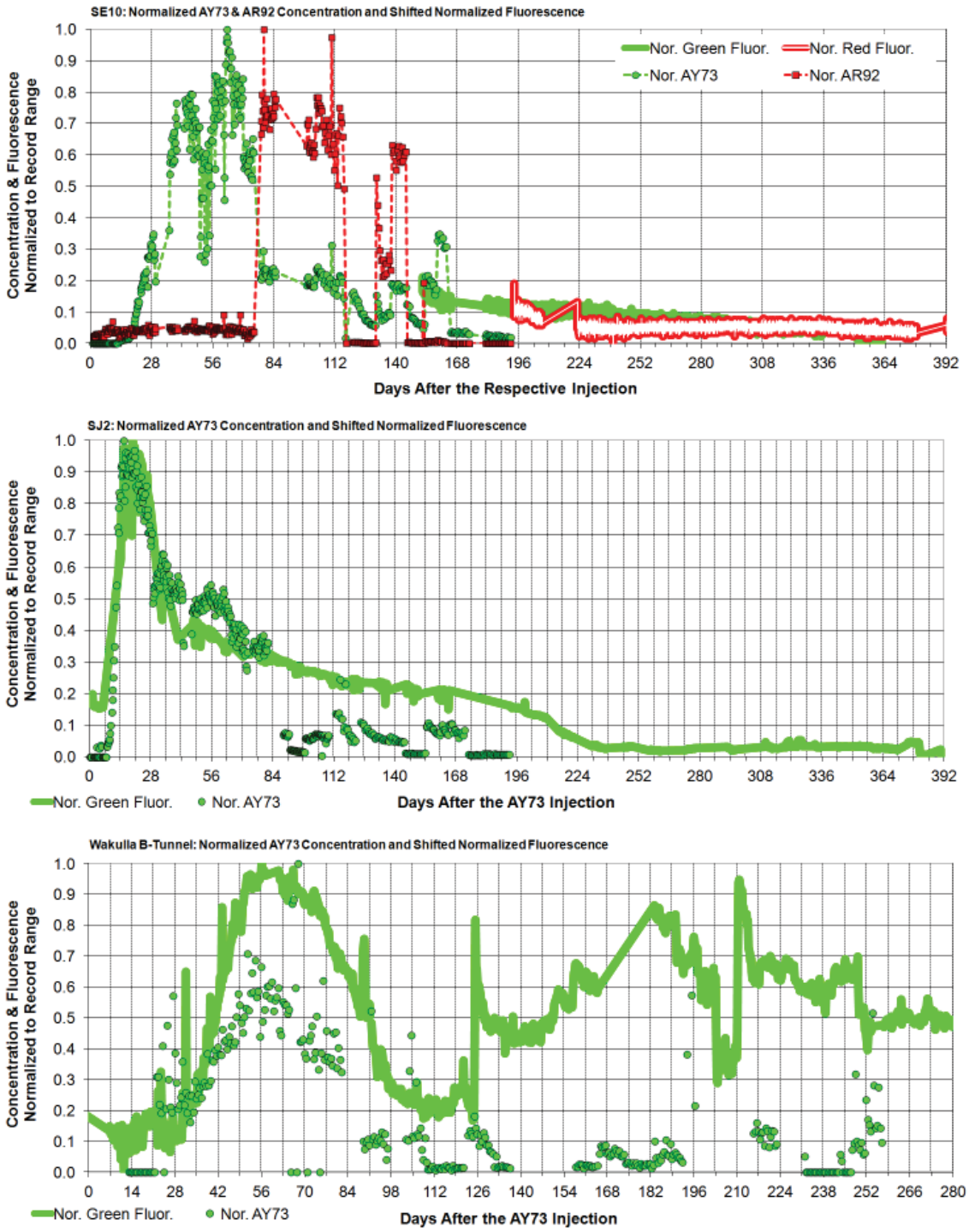


Figure 19. Normalized fluorescence with AY73 and AR92 concentrations in well SE10 (top), AY73 concentrations at well SJ2 (middle), and AY73 concentrations at Wakulla B-Tunnel (bottom).

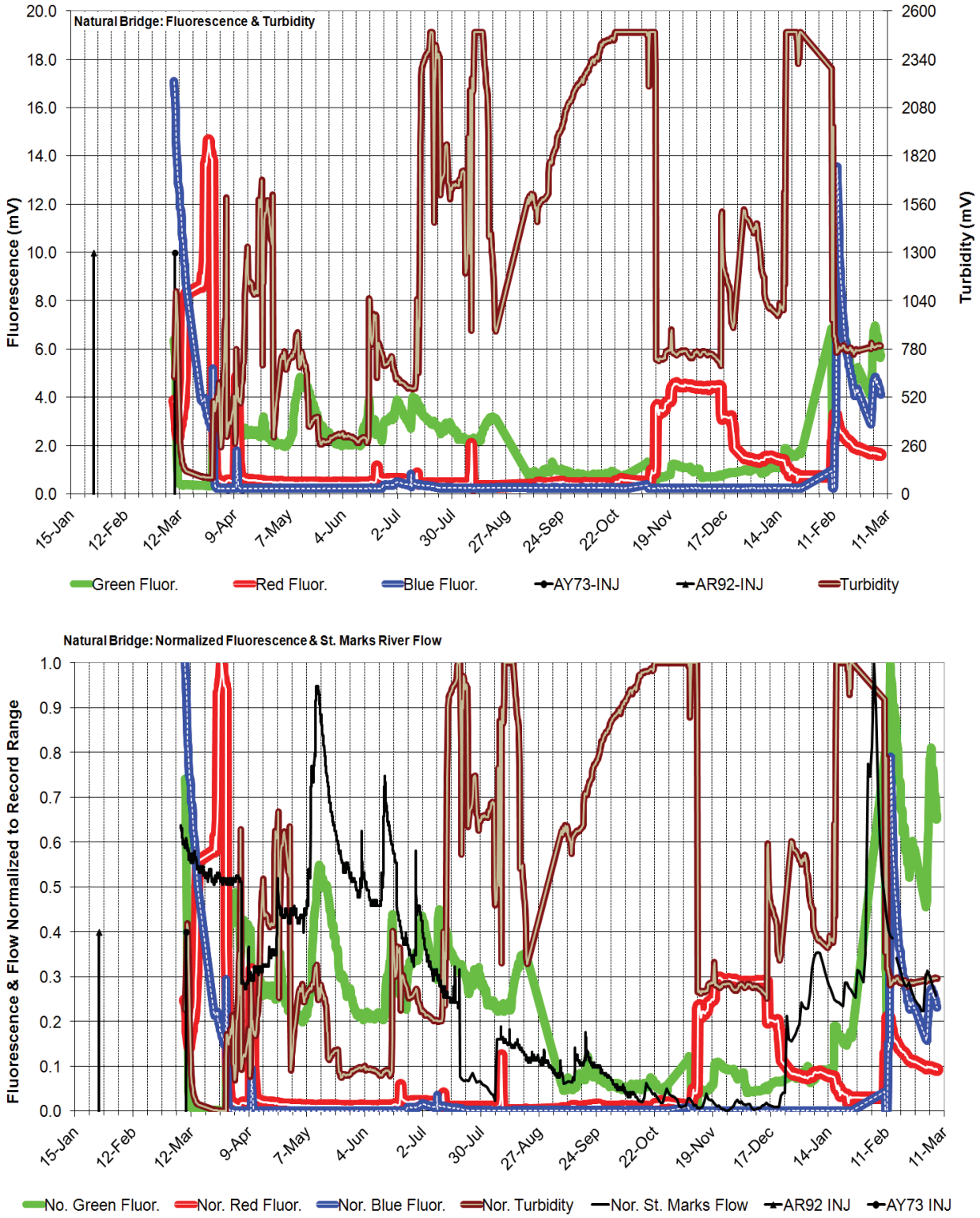


Figure 20. Normalized green and red fluorescence and AY73, AR87, and AR92 concentrations in well SE10 relative to normalized flow in the St. Marks River measured by the USGS downstream of the River Rise during the record period. Solid lines other than flow are 5-per moving average lines, which equate to the average daily value measured at the sampling station.

MASS RECOVERIES

Mass recoveries for AY73 and AR87 were estimated for all of the spring discharges where the two dyes were recovered. In each case, tracer mass was calculated as follows.

$$T_{mass} = \sum (S_{int} \times Q \times T_{conc} / 1{,}000{,}000);$$

where: T_{mass} = total tracer mass (g),
n = the total number of samples collected,
S_{int} = sample interval (days),
Q = flow at sampling station (L/day),
T_{conc} = concentration of tracer in sample (µg/L), and
1,000,000 = conversion factor from µg to g.

Table 8 shows the calculated mass of AY73 and AR87 recovered at each of the five spring discharges. Estimated low and average discharges at the respective stations were used to calculate a potential range in the total tracer mass recovered. Those estimates were calculated from data collected by the FGS for the stations at the Wakulla vent and Wakulla B-Tunnel. Flow at Indian Spring was estimated from a series of measurements conducted at the tracer sampling station between June and October 2005. Flow at Sally Ward Spring and McBride Slough was not measured but was assumed, based on the authors' experience and familiarity with the local flow system, to be in the same range as B-Tunnel flow.

Table 8. Estimated tracer mass recoveries.

Station	Flow Range (m^3/sec)	Mass Range AY73 (g)	Percent Recovery	Mass Range AR87 (g)	Percent Recovery
WV	12.0 3.1	24,526 6,263	41 10	9,257 2,364	15 4
WB	1.2 0.9	2,349 1,741	4 3	1,031 764	2 1
IS	1.4 0.6	2,012 805	3 1	635 254	1 <1
SWS	1.2 0.9	2,194 1,627	4 3	915 678	2 1
MBE	1.2 0.9	1,000 742	2 1	660 489	1 1
(WB+IS+ SWS)	3.8 2.4	6,555 4,173	11 7	2,581 1,696	4 3

Based on estimated average (top) and low (bottom) flow. Flow at SWS and MBE assumed to be equal to WB.

The calculations indicate that more AY73 was recovered than AR87 even though the AR87 was directly injected into a conduit flow path. Previous tracer testing has shown that part of the flow from the IS, and SWS stations is directed to the Wakulla Spring vent. As

such, at least part of the mass of tracer recovered at those stations is a component of the total tracer mass recovered at the Wakulla vent. Still, the sum of the recovered tracers from those stations and WB (separated from WV by less than 300 m along a large conduit) does not equal the mass recovered from the vent; however the values are closer for the low-flow estimates. The discrepancies between the sum of WB, IS, and SWS and the mass recovered at WV could be due to inaccurate estimates of flow, particularly high flow. If, however, the flow estimates are reasonably accurate, the discrepancies indicate that the tracers converged into pathways connecting to the Wakulla Spring vent that were not sampled and that more of those pathways exist at higher spring flows.

The total mass of tracer recovered ranged from 12 to 50 percent for AY73 and from 5 to 19 percent for AR87. The range in values arises from uncertainty in the magnitude of the spring flows during the tracer test and therefore the use of low-flow or average-flow values.

Figure 21 compares the cumulative recovery plots for AY73 and AR87 at all the spring stations where the denotation of 100 percent recovery represents the total mass recovered

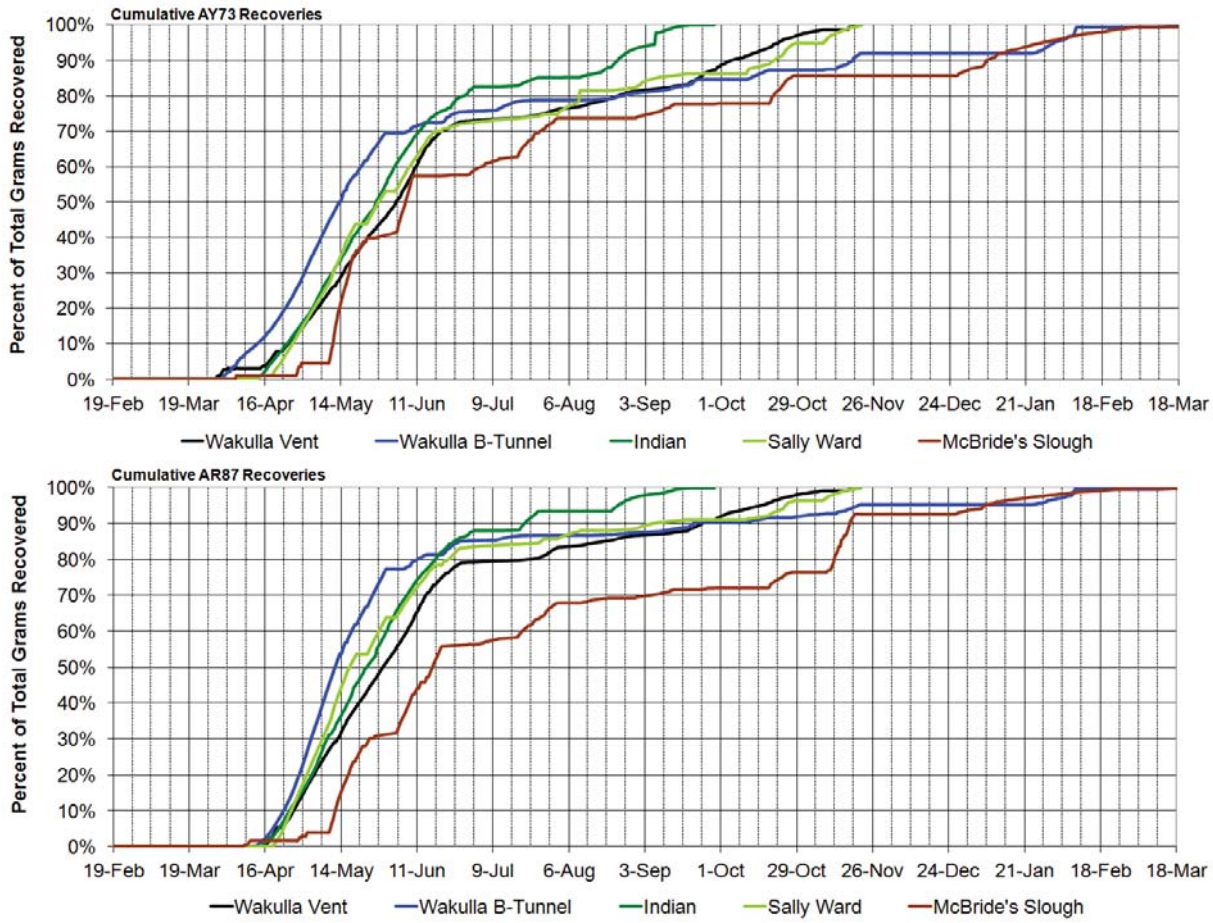


Figure 21. Cumulative AY73 (top) and AR87 (bottom) tracer mass recovery curves for all spring sampling stations where the tracers were detected.

at the respective stations. The shape of the plots is indicative of when and how rapidly the tracers reached each of the stations. In all cases, the bulk of the AR87 tracer (swallet injection) appears to have reached the stations faster than the AY73 (well injections). The WB, WV, IS, and SWS stations all appear to have received both tracers in about the same time-frames, as marked by the timing and length of the steepest part of the plots. The MBE station, however, appears to have received both the AY73 and AR87 tracers over a broader period and in a pulsed pattern as marked by the step-like shape of the MBE cumulative recovery curves.

These plots and the mass recovery calculations suggest that the primary flow path from the SEF to the spring discharges where the tracers were detected is to Wakulla Spring. IS, SWS, and MBE appear to be overflow (secondary) pathways. The MBE recovery response indicates that its pathway is episodically activated perhaps due to water table fluctuations associated with rainfall.

DISCUSSION

Flow Paths and Velocities

Minimum groundwater velocities can be calculated from quantitative tracer tests by dividing the distance between injection and positive detection sampling stations by the measured tracer travel times. The most rigorous estimate is derived from the travel time for the centroid of the recovery curve, however, that method is laborious and made complicated by multiple peaks. An easier method that closely approximates the centroid of the curve uses the peak concentration contained within the highest part of the recovery curve. The estimates must be regarded as minimum velocities because they assume a straight-line flow path. Table 9 lists the average distance between the major tracer receptors and the three injection wells and the distance to Turf Pond swallet along with the peak travel times for AY73 (well injections) and AR87 (swallet injection).

Table 9. Peak tracer travel times and associated minimum groundwater velocities.

Station	Dist. To Wells (miles)	Dist. To Turf Pond (miles)	Peak AY73 Travel Time (days)	Peak AR87 Travel Time (days)	AY73 Velocity (ft/day)	AR87 Velocity (ft/day)
SE10	1.27	2.02	63	104	106	103
SJ1	2.14	2.63	25	23	452	604
SJ2	2.14	2.63	20	21	565	661
WV	11.16	11.81	92	93	640	671
WB	10.52	10.96	66	58	842	998
IS	11.02	11.84	74	79	786	791
SWS	11.12	11.84	67	63	876	992
MBE	11.20	11.84	63	64	938	977

minimum recorded flow rate: 103 ft/day; maximum recorded flow rate: 998 ft/day; average recorded flow rate: 688 ft/day.

Measured velocities ranged from 103 ft/day for the AR87 flow path to well SE10, to 998 ft/day for the AR87 flow path to B-Tunnel. In general, the swallet injection is associated with slightly faster groundwater velocities and the slowest velocities were along the pathways to the wells. The difference between the velocities along the swallet and well flow paths indicates that the permeability framework of the aquifer is dominated by a convergent pattern of conduits.

Figure 22 presents a map of the groundwater flow pathways that reflects both the tracer connections presented in Figure 4 and the apparent degree of connection based on mass recoveries. Projected conduit-dominated pathways are marked by the darker green shaded area. The probable extent to which the water is flowing though the matrix component of the aquifer, associated with slower velocities, is marked by the lighter green shaded area. Tracer detections and the lack of significant detections in most of the wells across the southern boundary of the SEF demonstrate that groundwater flow is conduit-dominated in the SEF region and that those conduit-dominated pathways converge south of the spray field somewhere in the vicinity of SJ1 and SJ2 but west of SJ7. Conduits in this upper region of the basin are likely numerous and very small and can be regarded as a highly heterogeneous distribution of high conductivity zones. The distribution of the tracers from injection point to the five spring discharge locations indicates that somewhere southwest of that region, those conduit pathways diverge such that a mixture of the tracers can flow to the various springs. The primary pathway is to the Wakulla Spring vent based on relative tracer mass recoveries and probably via Wakulla B-Tunnel. The remaining pathways can be described as overflow paths wherein the timing and quantity of flow along those pathways is most likely driven by hydraulic fluctuations in the aquifer such as water levels, the distribution of recharge, and the flux into swallets connecting to either the flow paths directly or to other conduit flow paths leading to the same springs.

An alternative pathway could be in a more westerly direction toward Ames Sink (Figure 22). Previous tracer tests confirmed one or more conduit flow paths between Ames and Kelly Sinks and Indian, Sally Ward, and Wakulla Springs (Hazlett-Kincaid, 2007; Kincaid and Werner, 2008). In that case, the tracers would likely have converged into the Ames-to-Indian conduit(s), passed the Indian Spring (IS) sampling station, and then traveled to Wakulla Spring via conduits in the Wakulla-Leon Sinks cave system. Such a pathway would not follow the apparent potentiometric surface in as directly a down-gradient direction but it would support the recovery of the tracers at Indian Spring.

Aquifer/Matrix Interactions

Figure 23 provides a closer analysis of the AY73 and AR92 recovery curves obtained from stations SJ2 and WB relative to the days past the respective tracer injections. At both stations, the approximate peak in the AR92 recovery curve arrived later than the approximate peak in the AY73 curve, indicating that the AR92 traveled faster: approximately 1 day faster to SJ2 and 5 days faster to WB. Figure 23-plot 3 shows water levels measured at SJ2 and flow measured in the St. Marks River during a period including the two tracer injections dates. Those data reveal that the first set of well injections was performed a few days prior to the rising limb of an increase in groundwater levels and river flow, and that the second set of injections occurred during the prolonged falling limb of that event.

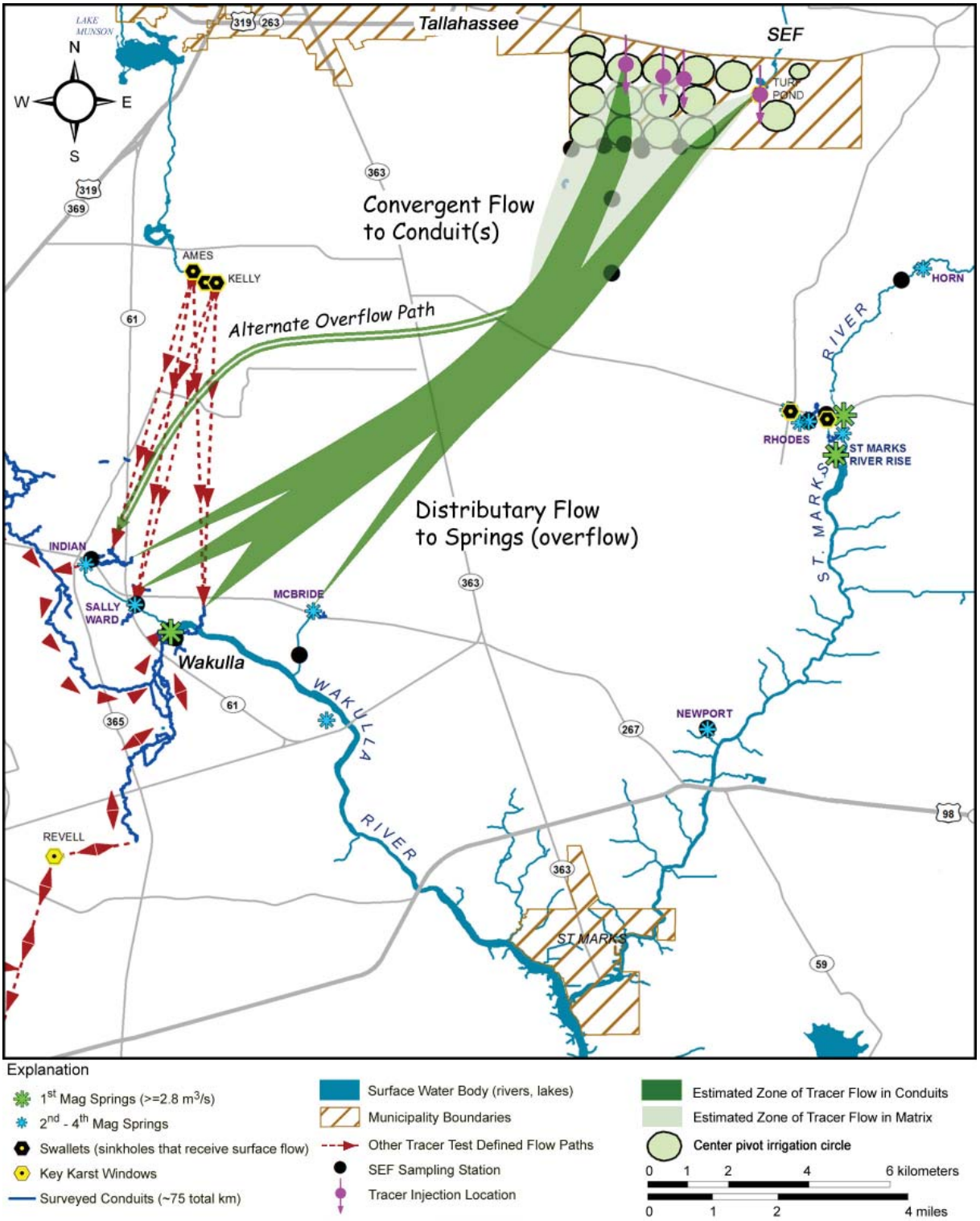


Figure 22. Probable conduit flow zones as estimated from tracer defined groundwater flow pathways from the SEF to Wakulla, Indian, Sally Ward Springs, and McBride Slough.

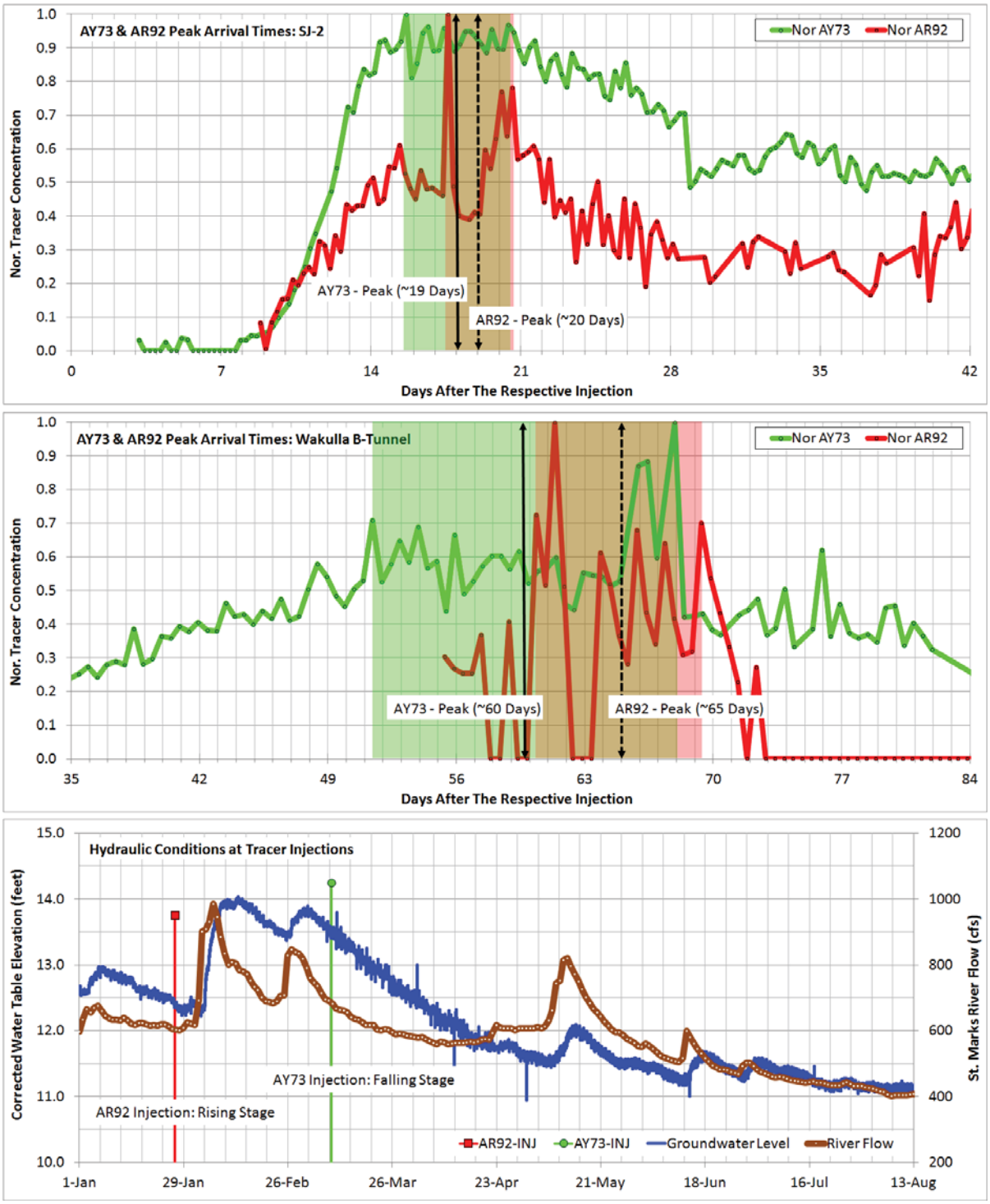


Figure 23. Comparative travel times determined from the AR92 and AY73 tracer recovery curves for well SJ2 (top) and Wakulla B-Tunnel (middle) relative to the timing of the respective injections and water levels and flow measured in well SJ2 and the St. Marks River during the study period (bottom).

Water levels in the area swallets track aquifer water levels and river flows because all are responsive to local rainfall. Flow into Turf Pond swallet was in fact declining at the time of the March 2006 injection and completely stopped shortly afterward according to observations made by SEF staff.

The timing of tracer recoveries at SJ2 and WB can therefore be interpreted to result from hydraulic interactions between conduits and the aquifer matrix controlled by different recharge driven hydraulic gradients active after the two tracer injections. Swallet inflow creates a point-source of recharge that will likely create a water table mound in the vicinity of the swallet and raise the head in the conduits to which they are connected relative to the head in the surrounding aquifer matrix. Accordingly, the gradient from the aquifer matrix into the conduits will likely become reduced or even temporarily reversed. Under such conditions, tracers injected into wells not directly connected to the conduit network and outside of the mounding area will travel more slowly. When inflow to the swallet subsides or stops, head in the conduits will likely fall with respect to the surrounding aquifer matrix. Local gradients between the matrix and the conduit would thereby increase and tracers injected into the same wells would travel faster.

Mass Recovery Calculations

The calculation of tracer mass recovery requires three basic assumptions.

- The tracer is chemically and biologically conservative meaning that it will not react with the water or compounds in the water, will not adsorb to the aquifer substrate, and will not decay due to microbiological processes
- The flow past the sampling station can be, and has been, accurately measured
- The tracer concentration in the water has been accurately measured on a regular enough basis to plot the shape of the recovery curve

Unfortunately, quantitative tracing is currently burdened by problems with all three of those assumptions. First, though it has been commonly accepted that the fluorescent tracers AY73, AR87, and AR92 are chemically conservative, meaning that they do not react with water or commonly occurring compounds in natural waters, there has been little work to determine how tracers, as large organic compounds, might be affected by microbiological decay, particularly in the organic rich waters of the WKP.

Second, groundwater flow at the sampling stations, each of which is located inside of an underwater cave system, is difficult to measure. The FGS has deployed and maintains hydraulic meters at both Wakulla B-Tunnel and the Wakulla Spring vent that measure water velocity from a single fixed point in the respective conduit systems every 15 minutes. Those measurements are converted to flow by multiplying them by the cross-sectional area of the conduits that was measured by the Woodville Karst Plain Project divers. It is therefore not an integrated measure of flow through the conduit but rather an approximation based on an assumption that the velocity across the conduit cross-sectional area is constant. Flow at the other spring stations (Indian, Sally Ward, and McBride Slough) was not regularly measured during the test and therefore had to be estimated from previous measurements or a qualitative assessment of comparative flows.

The measurement of tracer concentrations (those presented in this report) is also itself problematic primarily because both the identification and quantification of the dye in a water sample are affected by the amount of dye in the sample relative to the background fluorescence level. Simply stated, background fluorescence can at least partially mask the tracer signature on the emission spectrum. Since the background fluorescence can fluctuate significantly in natural waters, the degree of masking is also variable resulting in possible underestimations of tracer concentrations or false negatives. The result is an apparent decrease in "recoverability" of the tracer at lower concentrations.

Finally, very dark, tannic waters may not transmit enough light to adequately excite fluorphores (tracer molecules) to produce sufficient emission intensity for the accurate measurement of tracer concentration. The result could therefore be measurements indicating lower tracer concentrations than are actually present.

Figure 24 shows a series of tracer recovery curves plotted for several sampling stations along the mapped Wakulla-Leon Sinks cave system showing a decline in mass recovery with distance along the flow path. This particular pathway is chosen for reference because extensive cave exploration and mapping by the Woodville Karst Plain Project divers has revealed it to be relatively uncomplicated with no known diversions or outlets along the upper reach between Upper River Sink and Turner Sink. However, although this pathway

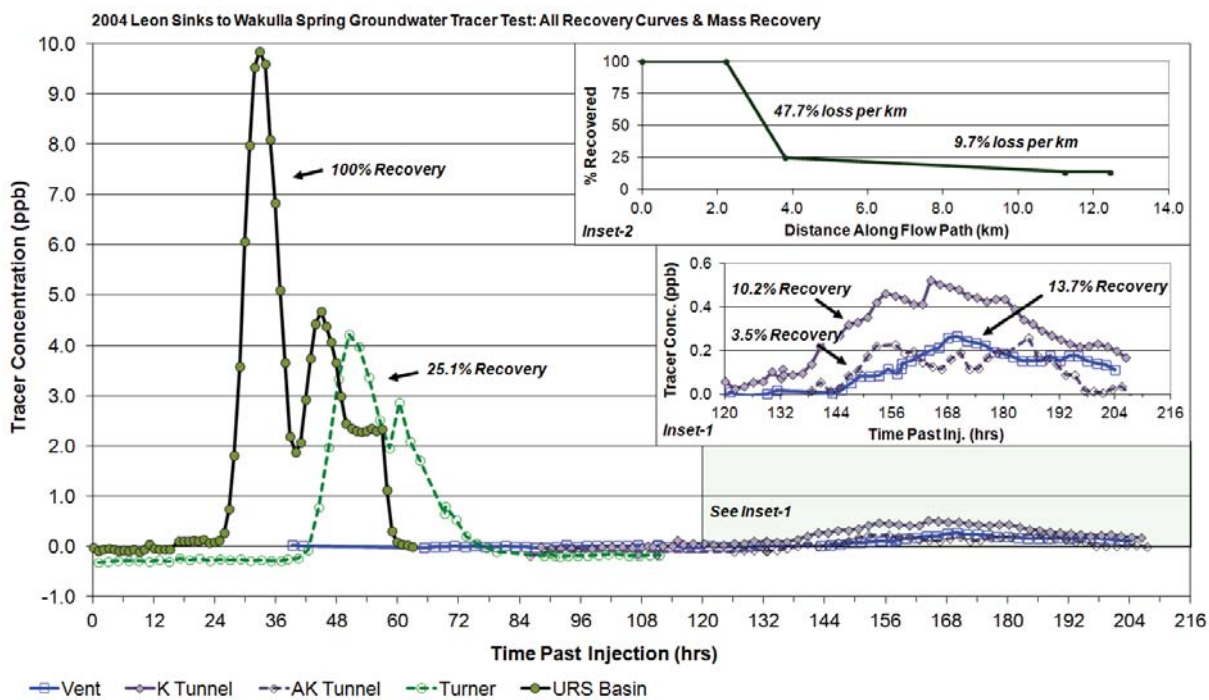


Figure 24. Tracer recovery curves measured for a tracer test through the Wakulla-Leon Sinks Cave System in the Woodville Karst Plain, performed in 2005, showing an apparent 80+percent reduction in mass recovery along a mapped conduit flow path leading to Wakulla Spring.

seems relatively uncomplicated, there was an apparent 75 percent reduction in mass recovery along it that, at this time, cannot be explained.

The significant implication is that the absence of a full recovery of the injected tracers does not necessarily indicate that the sampling strategy did not account for all discharges. Another significant implication is that additional research is needed to: 1) constrain the expectations for mass recoveries; 2) develop methods for improving recoverability; and 3) understand how mass recoveries are related to residence times and how both are impacted by variability in hydraulic conditions. Until then, we can only interpret the mass recoveries in the context of the problems that we know exist in order to answer some basic questions that arise from the results.

Why did we get relatively low tracer recoveries? Given the potential problems associated with the calculation of tracer mass recoveries described above, there are three potential reasons that we did not recover close to 100 percent of the injected tracers:

1) The tracers went to discharges that were not sampled. Though this is always a possibility in groundwater tracing, we feel strongly that all probable spring discharges were adequately sampled. Still, it is possible that some of the water flowing into conduits that connect to the Wakulla-Leon Sinks Cave System could bypass Wakulla Spring and continue flowing south toward the Gulf coast (presumably to the Spring Creek Springs Group). The largest conduits in that cave system are trending south and appear to be continuing in that direction. An apparent groundwater divide has been described (Kincaid, 1999) crossing the conduits based on observations by divers of a reversal in flow direction: north toward Wakulla Spring in the northern part of the system and south toward the Gulf Coast in the southern part of the cave system. A tracer study was conducted from Turner Sink (intersects the southern part of the cave system) in 2007, in which the bulk of the injected tracer traveled to Wakulla Spring and was not detected at any of the five major discharge points comprising the Spring Creek Springs Group (Kincaid, 2010). Given our knowledge and experience in the WKP, we can only conclude that all of the major discharges likely to have received flow from the SEF were sampled during the tracer test.

2) The tracer travel times were longer than the sampling period. We are reasonably certain that at least part of the AY73 persisted in the aquifer matrix in the vicinity of injection well SE40 for a considerable period of time after the injection. As late as several months after the injections, SEF staff continued to report the presence of visibly colored water in the well during sampling and pumping operations whereas the water in the other injections wells, SE06 and SE11S, became clear relatively soon after the injections. Because of this, it is possible that at least one-third of the injected AY73 remained in aquifer storage in the vicinity of the SEF and had not traveled to the down-gradient discharge points by the end of the sampling period. This does not however explain the relatively lower amount of AR87 recovered because it was injected into an active swallet rather than wells.

3) The tracers traveled to the discharge points at concentrations less than the detection limit. Tracer concentrations are reduced along a flow path due to dilution and mixing by waters from other sources that do not contain the tracer and dispersion along the flow path both of which are expected to be significant processes active between the SEF and the spring discharges. As described above, tracer detection at very low concentrations is further hindered in waters with high natural fluorescence due to masking of the tracer emission spectra. We believe the problems associated with low concentration detection to be the

largest factor resulting in the relatively low mass recoveries. The problem is greater for AR87 than for AY73 because AY73 is approximately six times more fluorescent than AR87, which is why it was used for the well injections, and we feel is the most probable explanation for the consistently lower AR87 recoveries.

Given the problems with mass recovery and low concentration detection is it possible that some of the tracer traveled to the St. Marks River Rise without being detected? Negative detections during any groundwater tracer study cannot be used to rule out potential groundwater flow pathways and we cannot therefore dismiss the possibility that some of the tracers traveled to the St. Marks River. However, the preponderance of hydraulic evidence indicates that the primary flow direction from the SEF is to the southwest and that a significant component of the flow is traveling very rapidly to Wakulla Spring.

1) Potentiometric surface mapping indicates that the gradient is southwest toward Wakulla Spring.

2) The strongest tracer recoveries occurred at the Wakulla sampling stations.

3) If an active and significant flow path connected the SEF with the St. Marks River, the travel time should have been considerably faster because the distance is significantly less. A faster travel-time should have resulted in a higher concentration tracer recovery curve than was detected at Wakulla Spring, which would have been well within the range of detectability despite the higher and more variable natural fluorescence.

4) Only 12 of the 406 samples (three percent) collected from the St. Marks River Rise contained any fluorescent compounds that could be attributed to the injected tracers compared to 64 percent or more of samples collected from each of the Wakulla area discharges.

CONCLUSIONS

The primary conclusion derived from this study was that groundwater from the SEF flows predominantly southwestward to Wakulla Spring at a rate of between 671 and 977 feet per day. None of the injected tracers were recovered during the 14 month sampling period from any of the sampled locations in the St. Marks River watershed. Both of these results are consistent with what was expected based on the established potentiometric surface of the FAS in the WKP, which shows a southwestern direction of groundwater flow from the SEF toward Wakulla Spring (U.S. Geological Survey, 2005). We interpret the additional tracer detections at Indian, Sally Ward and McBride Slough springs as overflow from the primary conduit flow path driven by local hydraulic variations such as conduit constrictions or infilling.

Complete or nearly complete tracer recovery curves were recorded at the wells SJ2 and SE10 as well as at the five spring sampling locations where the tracers were recovered: Wakulla vent, Wakulla B-Tunnel, Indian Spring, Sally Ward Spring, and McBride Slough. In all cases, the recovery curves revealed a single primary pulse of tracer flow and then subsequent shorter and lower concentration pulses. We interpret this pattern of recovery as a consequence of multiple small conduit flow paths, constrictions in those pathways, rain events during the tracer tests, and a response to varying water levels in the aquifer that likely drove water and the tracers in and out of the conduits and surrounding aquifer matrix.

The timing of the AY73 and AR92 tracer recovery curves at Wakulla B-Tunnel indicates that local gradients between the conduits and the surrounding aquifer matrix are sensitive to water levels in swallets. When the swallets are full and in-flowing, groundwater flow from the matrix into the conduits is reduced and this likely reduces the overall rate of groundwater flow through sections of the aquifer up-gradient of the conduits. These are the conditions we interpret to be responsible for the slower AR92 travel-time.

No more than 43 percent of the injected tracers were recovered from a combination of Wakulla Spring and McBride Slough. We do not believe the lack of full recovery to be indicative of unsampled flow paths but rather a function of one or more variables impacting our ability to adequately measure the recovered mass or the conservativeness of the tracers. The primary variables that need further constraint in order to improve future mass recovery efforts include: 1) continuous measurement of flow at the sampling locations; 2) a determination of potential microbiological decay of the tracers in organic-rich waters; and 3) improved calibration methods for tracer concentrations measured in dark tea-colored water.

The IFFs provided an effective means of collecting high-density data as the primary tracer pulses passed the instrumented sampling locations. They were, however, difficult to maintain in the field and produced numerous fluorescence peaks in the range of the injected tracers that were not confirmed by laboratory analysis. Based on our results, it does not appear that these devices can be relied upon as a sole means of tracer detections and that they would likely produce false positives over prolonged periods.

Finally, we consider the results of this tracing study to clearly demonstrate the efficacy and benefit of conducting quantitative tracer tests over long distances in the FAS. Tracers that were introduced in large and small quantities into wells and in large quantity to a swallet traveled for nearly 12 kilometers and were successfully detected at one of the largest magnitude springs in Florida. Doing so answered a pressing practical question regarding the source of nitrate contamination to the spring and provided significant new insight into the dynamics of groundwater flow through the FAS to large and small springs in the western portion of the WKP.

REFERENCES

Chelette, A., Pratt, T. R., and Katz, B. G., 2002, Nitrate loading as an indicator of nonpoint source pollution in the lower St. Marks-Wakulla Rivers watershed: Northwest Florida Water Management District Water Resources Special Report 02-1, 138 p.

City of Tallahassee, 2007. The Southeast Farm Wastewater Reuse Facility: *http://www.talgov.com/you/learn/utilities/wastewater/sefarm.cfm*

Hand, J. 2005, Nitrate and *Hydrilla* at Wakulla Spring, untitled presentation, Solving Water Pollution Problems in the Wakulla Springshed of North Florida: 4th Hydrogeology Consortium Workshop: Florida Geological Survey Special Publication 58: *http://www.h2hmodeling.com/FGS/HC_Workshops/2005_WS_Workshop/*

Hazlett-Kincaid, Inc., 2007, Hydrogeologic characterization and modeling of the Woodville Karst Plain, north Florida: Report of Investigations: 2005 – 2006: contract deliverable submitted to the Florida Geological Survey, February 2007.

Kincaid, T. R., 1999, Morphologic and fractal characterization of saturated karstic caves [Ph.D. thesis]: Laramie, University of Wyoming, 174 p.

Kincaid, T.R. and Werner, C.L., 2008, Conduit flow paths and conduit/matrix interaction defined by quantitative groundwater tracing in the Floridan aquifer, *in* Yuhr, L.B., Alexander, E.C., and Beck, B.F. eds., Sinkholes and the Engineering and Environmental Impacts of Karst: Reston, American Society of Civil Engineers, Geotechnical Special Publication No. 33, p. 288-302.

Kincaid, T.R., 2010, Spring Creek tracer testing update: *http://www.geohydros.com/images/Pubs/geohydros_spring_creek_update_FGS_Oct-2010.pdf* [August 2012]

Schnegg, P. and Costa, R., 2002, Tracer tests made easier with field fluorometers: Centre d'Hydrogeologie, Universite' de Neuchatel, Bulletin d'Hydrogeologie n. 20, p. 1 - 2.

Smart, C.C., and Smart, P.L., 1992, Correction of background interference and cross-fluorescence in filter fluorometric analysis of water-tracer dyes, *in* Hydrology, Ecology, Monitoring and Management of Ground Water in Karst Terrains Conference (3rd Nashville, Tennessee) Proceedings. National Ground Water Association, Dublin, Ohio. p. 475 - 494.

U.S. Geological Survey, 2005. Unpublished composite potentiometric surface map for the upper Floridan aquifer in the Woodville Karst Plain: Tallahassee, U.S. Geological Survey.

Willard, H.H., Merritt Jr., L.L., Dean, J.A., and Settle Jr., F.A., 1988, Fluorescence and phosphorescence spectrophotometry, *in* Wadsworth, W. ed., Instrumental methods of analysis: New York, Wadsworth Publishing Company, p. 197 - 223.

APPENDICES

Tracer test spectrofluorophotometer data

Abbreviations used in tables:

CALC - calculated
grab-grab - grab sampled
Intens - intensity
IS - Indian Spring
MEAS - measured
ND - not detected
NR - not recorded
NSC - no sample collected
N/A - not applicable
PPB - parts per billion
SNA - sample not analyzed
SWS - Sally Ward Spring
Wavelen - wavelength
WKV - Wakulla vent
WKB - Wakulla B-Tunnel

Appendix 1. IS spectrofluorophotometer data.

			m3/sec	*cfs*						*Estimated Mass Recovered (g)*		
	Highest Probable Flow		*2.83*	*100.0*						*4024*	*1270*	*N/A*
	Lowest Probable Flow		*0.57*	*20.0*						*805*	*254*	*N/A*
	Probable Average Flow		*1.42*	*50.0*						*2012*	*635*	*N/A*
	Max		*3.918*	*524.800*	*36.123*	*549.600*	*14.939*	*562.400*	*3.082*	*1.077*	*0.182*	*0.030*
	Min		*0.000*	*510.40*	*0.269*	*535.200*	*0.108*	*555.200*	*1.772*	*0.000*	*0.000*	*0.000*
	Count		*330*	*303*	*303*	*240*	*240*	*10*	*10*	*349*	*349*	*349*
Date Time	**Field Sample Number**	**Lab Sample Number**	**Meas. Baseline (MEAS)**	**AY73 Wavelen (MEAS)**	**AY73 Intens (MEAS)**	**AR87 Wavelen (MEAS)**	**AR87 Intens (MEAS)**	**AR92 Wavelen (MEAS)**	**AR92 Intens (MEAS)**	**AY73 PPB (CALC)**	**AR87 PPB (CALC)**	**AR92 PPB (CALC)**
2/2/06 10:45	grab-grab	11674	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/3/06 18:45	grab-grab	11675	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/4/06 13:00	grab-grab	11680	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/5/06 17:05	grab-grab	11681	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/6/06 11:13	grab-grab	11682	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/7/06 16:50	grab-grab	11683	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/8/06 17:00	grab-grab	11684	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/13/06 16:00	grab-grab	11685	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/17/06 14:40	grab-grab	11686	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/18/06 15:30	grab-grab	11687	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/19/06 18:00	grab-grab	11688	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/21/06 13:23	grab-grab	11689	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/22/06 13:30	grab-grab	11762	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/23/06 14:00	grab-grab	13495	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/27/06 16:28	grab-grab	13496	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/4/06 15:30	grab-grab	13497	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/5/06 14:11	grab-grab	13498	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/7/06 16:00	grab-grab	13507	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/8/06 16:30	grab-grab	13508	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/10/06 12:00	1-1	12690	0.960	510.400	7.380	ND	ND	ND	ND	0.193	0.000	0.000
3/11/06 0:00	1-2	12691	0.780	511.200	6.229	ND	ND	ND	ND	0.163	0.000	0.000
3/11/06 12:00	1-3	12692	0.867	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/12/06 0:00	1-4	12693	0.955	510.400	6.187	ND	ND	ND	ND	0.157	0.000	0.000
3/12/06 12:00	1-5	12694	1.026	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/13/06 0:00	1-6	12695	2.509	510.400	8.610	ND	ND	ND	ND	0.183	0.000	0.000
3/13/06 12:00	1-7	12696	0.909	510.400	5.516	ND	ND	ND	ND	0.138	0.000	0.000
3/14/06 0:00	1-8	12697	1.046	510.400	8.056	ND	ND	ND	ND	0.210	0.000	0.000
3/14/06 12:00	1-9	12698	3.514	510.400	11.001	ND	ND	ND	ND	0.225	0.000	0.000

Appendix 1. IS spectroflourophotometric data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
3/15/06 0:00	1-10	12699	1.038	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/15/06 12:00	1-11	12700	0.977	510.400	5.923	ND	ND	ND	ND	0.148	0.000	0.000
3/16/06 0:00	1-12	12701	3.918	510.400	12.098	ND	ND	ND	ND	0.245	0.000	0.000
3/16/06 12:00	1-13	12702	1.239	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/17/06 0:00	1-14	12703	1.086	510.400	9.966	ND	ND	ND	ND	0.266	0.000	0.000
3/17/06 12:00	1-15	12704	1.089	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/18/06 0:00	1-16	12705	0.921	511.200	5.293	ND	ND	ND	ND	0.131	0.000	0.000
3/18/06 12:00	1-17	12706	0.746	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/19/06 0:00	1-18	12707	0.914	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/19/06 12:00	1-19	12708	1.101	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/20/06 0:00	2-1	12758	0.819	513.600	6.621	ND	ND	ND	ND	0.174	0.000	0.000
3/20/06 12:00	2-2	12759	0.770	510.400	6.197	ND	ND	556.800	2.812	0.163	0.000	0.029
3/21/06 0:00	2-3	12760	0.872	512.000	5.811	ND	ND	ND	ND	0.148	0.000	0.000
3/21/06 12:00	2-4	12761	0.914	510.400	5.907	ND	ND	ND	ND	0.150	0.000	0.000
3/22/06 0:00	2-5	12762	0.776	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/22/06 12:00	2-6	12763	0.855	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/23/06 0:00	2-7	12764	1.043	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/23/06 12:00	2-8	12765	0.976	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/24/06 0:00	2-9	12766	0.848	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/24/06 12:00	2-10	12767	0.836	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/25/06 0:00	2-11	12768	0.923	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/25/06 12:00	2-12	12769	0.969	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/26/06 0:00	2-13	12770	0.977	511.200	6.688	ND	ND	555.200	3.052	0.171	0.000	0.029
3/26/06 12:00	2-14	12771	0.874	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/27/06 0:00	2-15	12772	0.929	510.400	7.182	ND	ND	ND	ND	0.188	0.000	0.000
3/27/06 12:00	2-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/28/06 0:00	2-17	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/28/06 12:00	2-18	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/29/06 0:00	3-1	12777	0.930	512.800	4.358	ND	ND	555.200	2.417	0.103	0.000	0.021
3/29/06 12:00	3-2	12778	0.986	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/30/06 0:00	3-3	12779	0.779	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/30/06 12:00	3-4	12780	0.971	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/31/06 0:00	3-5	12781	0.913	510.400	5.420	ND	ND	555.200	3.082	0.135	0.000	0.030
3/31/06 12:00	3-6	12782	0.963	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/1/06 0:00	3-7	12783	0.849	510.400	4.821	ND	ND	558.400	2.488	0.119	0.000	0.023
4/1/06 12:00	3-8	12784	0.874	ND	ND	ND	ND	555.200	2.624	0.000	0.000	0.025
4/2/06 0:00	3-9	12785	0.902	510.400	4.146	ND	ND	555.200	2.249	0.097	0.000	0.019
4/2/06 12:00	3-10	12786	0.938	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/3/06 0:00	3-11	12787	0.989	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/3/06 12:00	3-12	12788	0.972	ND	ND	ND	ND	562.400	1.772	0.000	0.000	0.011
4/4/06 0:00	3-13	12789	0.892	ND	ND	ND	ND	555.200	2.450	0.000	0.000	0.022

Appendix 1. IS spectroflourophotometric data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
4/4/06 12:00	3-14	12790	1.113	ND	ND	ND	ND	556.800	3.038	0.000	0.000	0.027
4/5/06 0:00	4-1	13158	1.180	516.000	5.652	ND	ND	ND	ND	0.134	0.000	0.000
4/5/06 12:00	4-2	13159	1.192	510.400	6.259	ND	ND	ND	ND	0.152	0.000	0.000
4/6/06 0:00	4-3	13160	1.315	510.400	9.847	ND	ND	ND	ND	0.256	0.000	0.000
4/6/06 12:00	4-4	13161	1.197	511.200	7.616	ND	ND	ND	ND	0.193	0.000	0.000
4/7/06 0:00	4-5	13162	1.131	510.400	6.832	ND	ND	ND	ND	0.171	0.000	0.000
4/7/06 12:00	4-6	13163	0.974	510.400	7.241	ND	ND	ND	ND	0.188	0.000	0.000
4/8/06 0:00	4-7	13164	1.224	516.000	13.811	ND	ND	ND	ND	0.378	0.000	0.000
4/8/06 12:00	4-8	13165	0.993	510.400	6.569	ND	ND	ND	ND	0.167	0.000	0.000
4/9/06 0:00	4-9	13166	1.459	510.400	10.673	ND	ND	ND	ND	0.276	0.000	0.000
4/9/06 12:00	4-10	13167	1.047	515.200	6.299	ND	ND	ND	ND	0.158	0.000	0.000
4/10/06 0:00	4-11	13168	1.274	510.400	6.311	ND	ND	ND	ND	0.151	0.000	0.000
4/10/06 12:00	4-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/11/06 0:00	4-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/11/06 12:00	4-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/12/06 0:00	5-1	13173	1.419	512.000	4.784	ND	ND	ND	ND	0.101	0.000	0.000
4/12/06 12:00	5-2	13174	1.113	510.400	5.885	ND	ND	ND	ND	0.143	0.000	0.000
4/13/06 0:00	5-3	13175	1.199	510.400	6.174	ND	ND	ND	ND	0.149	0.000	0.000
4/13/06 12:00	5-4	13176	1.204	510.400	6.341	ND	ND	ND	ND	0.154	0.000	0.000
4/14/06 0:00	5-5	13177	1.084	510.400	7.152	ND	ND	ND	ND	0.182	0.000	0.000
4/14/06 12:00	5-6	13178	1.094	512.000	5.783	ND	ND	ND	ND	0.141	0.000	0.000
4/15/06 0:00	5-7	13179	0.969	512.800	5.550	536.800	4.230	ND	ND	0.137	0.046	0.000
4/15/06 12:00	5-8	13180	0.920	511.200	5.835	536.000	4.490	ND	ND	0.147	0.050	0.000
4/16/06 0:00	5-9	13181	1.096	510.400	5.657	537.600	4.623	ND	ND	0.137	0.049	0.000
4/16/06 12:00	5-10	13182	0.999	516.800	6.383	ND	ND	ND	ND	0.162	0.000	0.000
4/17/06 0:00	5-11	13183	1.085	511.200	6.472	538.400	4.912	ND	ND	0.162	0.054	0.000
4/17/06 12:00	5-12	13184	1.133	511.200	8.167	539.200	6.019	ND	ND	0.211	0.068	0.000
4/18/06 0:00	5-13	13185	1.044	514.400	6.592	ND	ND	ND	ND	0.166	0.000	0.000
4/18/06 12:00	5-14	13186	0.918	517.600	5.674	ND	ND	ND	ND	0.143	0.000	0.000
4/19/06 0:00	6-1	13140	0.826	516.800	5.783	542.400	4.400	ND	ND	0.149	0.050	0.000
4/19/06 12:00	6-2	13141	0.926	517.600	6.029	535.200	4.777	ND	ND	0.153	0.054	0.000
4/20/06 0:00	6-3	13142	0.783	517.600	5.514	537.600	4.759	ND	ND	0.142	0.056	0.000
4/20/06 12:00	6-4	13143	0.914	514.400	6.088	537.600	4.692	ND	ND	0.155	0.053	0.000
4/21/06 0:00	6-5	13144	0.761	516.800	5.760	538.400	4.859	ND	ND	0.150	0.057	0.000
4/21/06 12:00	6-6	13145	0.816	517.600	5.722	541.600	5.118	ND	ND	0.147	0.060	0.000
4/22/06 0:00	6-7	13146	0.763	518.400	5.256	540.000	5.122	ND	ND	0.135	0.061	0.000
4/22/06 12:00	6-8	13147	0.750	514.400	6.436	538.400	5.470	ND	ND	0.171	0.066	0.000
4/23/06 0:00	6-9	13148	1.028	514.400	7.192	536.800	6.315	ND	ND	0.185	0.074	0.000
4/23/06 12:00	6-10	13149	0.733	516.800	5.780	541.600	5.469	ND	ND	0.151	0.066	0.000
4/24/06 0:00	6-11	13150	0.798	514.400	5.386	539.200	5.320	ND	ND	0.138	0.063	0.000
4/24/06 12:00	6-12	13151	0.894	516.800	5.738	540.800	5.472	ND	ND	0.145	0.064	0.000

Appendix 1. IS spectroflourophotometric data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
4/25/06 0:00	6-13	13152	0.780	517.600	6.549	535.200	5.719	ND	ND	0.173	0.069	0.000
4/25/06 12:00	6-14	13153	0.786	518.400	6.336	540.800	5.701	ND	ND	0.167	0.069	0.000
4/26/06 0:00	7-1	13816	1.224	512.000	7.960	535.200	5.741	ND	ND	0.202	0.063	0.000
4/26/06 12:00	7-2	13817	1.361	514.400	6.724	535.200	5.160	ND	ND	0.161	0.053	0.000
4/27/06 0:00	7-3	13818	1.200	516.000	6.547	536.000	5.065	ND	ND	0.160	0.054	0.000
4/27/06 12:00	7-4	13819	1.091	516.800	7.539	535.200	5.741	ND	ND	0.193	0.065	0.000
4/28/06 0:00	7-5	13820	1.071	514.400	6.607	539.200	4.837	ND	ND	0.166	0.053	0.000
4/28/06 12:00	7-6	13821	1.118	516.000	6.671	535.200	5.734	ND	ND	0.167	0.065	0.000
4/29/06 0:00	7-7	13822	1.218	515.200	6.716	537.600	5.404	ND	ND	0.165	0.059	0.000
4/29/06 12:00	7-8	13823	1.085	514.400	7.053	536.800	5.358	ND	ND	0.179	0.060	0.000
4/30/06 0:00	7-9	13824	1.028	518.400	7.235	535.200	5.809	ND	ND	0.186	0.067	0.000
4/30/06 12:00	7-10	13825	1.120	516.800	6.132	538.400	5.402	ND	ND	0.150	0.060	0.000
5/1/06 0:00	7-11	13826	1.275	513.600	6.631	537.600	5.127	ND	ND	0.161	0.054	0.000
5/1/06 12:00	7-12	13827	1.175	515.200	7.055	540.800	6.320	ND	ND	0.176	0.072	0.000
5/2/06 0:00	7-13	13828	1.076	521.600	6.611	539.200	6.360	ND	ND	0.166	0.074	0.000
5/2/06 12:00	7-14	13829	1.279	514.400	6.409	536.800	5.499	ND	ND	0.154	0.059	0.000
5/3/06 0:00	8-1	13888	0.811	520.000	8.655	536.000	6.722	ND	ND	0.235	0.083	0.000
5/3/06 12:00	8-2	13889	0.751	515.200	7.594	540.800	6.228	ND	ND	0.205	0.077	0.000
5/4/06 0:00	8-3	13890	0.859	516.800	7.804	539.200	6.326	ND	ND	0.208	0.077	0.000
5/4/06 12:00	8-4	13891	1.086	517.600	9.308	538.400	7.708	ND	ND	0.247	0.093	0.000
5/5/06 0:00	8-5	13892	1.082	518.400	8.075	541.600	6.565	ND	ND	0.210	0.077	0.000
5/5/06 12:00	8-6	13893	1.130	516.000	12.939	539.200	10.275	ND	ND	0.354	0.128	0.000
5/6/06 0:00	8-7	13894	1.464	515.200	9.090	540.000	7.943	ND	ND	0.229	0.091	0.000
5/6/06 12:00	8-8	13895	1.076	516.800	8.182	540.000	7.620	ND	ND	0.213	0.092	0.000
5/7/06 0:00	8-9	13896	1.249	511.200	9.848	535.200	8.501	ND	ND	0.258	0.102	0.000
5/7/06 12:00	8-10	13897	1.167	511.200	11.169	536.000	9.354	ND	ND	0.300	0.115	0.000
5/8/06 0:00	8-11	13898	1.140	516.800	7.856	537.600	7.316	ND	ND	0.201	0.086	0.000
5/8/06 12:00	8-12	13899	1.325	511.200	8.237	543.200	7.393	ND	ND	0.207	0.085	0.000
5/9/06 0:00	8-13	13900	1.170	522.400	7.349	536.000	6.459	ND	ND	0.185	0.074	0.000
5/9/06 12:00	8-14	13901	1.107	516.000	6.902	538.400	7.168	ND	ND	0.174	0.085	0.000
5/10/06 0:00	9-1	14214	1.356	518.400	9.366	ND	ND	ND	ND	0.240	0.000	0.000
5/10/06 12:00	9-2	14215	1.280	510.400	7.251	537.600	5.658	ND	ND	0.179	0.061	0.000
5/11/06 0:00	9-3	14216	0.977	515.200	6.774	536.800	5.394	ND	ND	0.174	0.062	0.000
5/11/06 12:00	9-4	14217	1.111	515.200	5.369	539.200	4.793	ND	ND	0.128	0.052	0.000
5/12/06 0:00	9-5	14218	1.364	511.200	11.850	536.000	9.799	ND	ND	0.315	0.118	0.000
5/12/06 12:00	9-6	14219	1.064	511.200	8.193	535.200	6.110	ND	ND	0.214	0.071	0.000
5/13/06 0:00	9-7	14220	1.283	517.600	7.060	536.000	5.707	ND	ND	0.173	0.062	0.000
5/13/06 12:00	9-8	14221	1.160	516.000	6.507	535.200	6.006	ND	ND	0.160	0.068	0.000
5/14/06 0:00	9-9	14222	1.199	518.400	6.844	537.600	5.367	ND	ND	0.169	0.058	0.000
5/14/06 12:00	9-10	14223	1.446	512.800	11.709	537.600	8.525	ND	ND	0.308	0.099	0.000
5/15/06 0:00	9-11	14224	1.136	513.600	6.453	541.600	4.810	ND	ND	0.160	0.051	0.000

Appendix 1. IS spectroflourophotometric data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
5/15/06 12:00	9-12	14225	1.371	516.000	8.299	535.200	6.867	ND	ND	0.208	0.077	0.000
5/16/06 0:00	9-13	14226	1.315	510.400	9.085	535.200	7.355	ND	ND	0.233	0.085	0.000
5/16/06 12:00	9-14	14227	1.411	516.000	8.098	541.600	6.548	ND	ND	0.201	0.072	0.000
5/17/06 0:00	9-15	14228	1.325	516.000	8.767	537.600	6.944	ND	ND	0.223	0.079	0.000
5/17/06 12:00	9-16	14229	1.634	515.200	9.855	539.200	7.476	ND	ND	0.247	0.082	0.000
5/18/06 0:00	9-17	14230	1.398	516.000	11.211	536.000	8.902	ND	ND	0.294	0.105	0.000
5/18/06 12:00	9-18	14231	1.230	517.600	10.039	541.600	12.076	ND	ND	0.264	0.152	0.000
5/19/06 0:00	10-1	14052	1.360	516.000	6.475	535.200	4.828	ND	ND	0.153	0.049	0.000
5/19/06 12:00	10-2	14053	1.050	521.600	5.990	535.200	5.127	ND	ND	0.148	0.057	0.000
5/20/06 0:00	10-3	14054	1.202	513.600	6.913	536.800	5.394	ND	ND	0.171	0.059	0.000
5/20/06 12:00	10-4	14055	1.231	513.600	6.764	542.400	5.410	ND	ND	0.166	0.059	0.000
5/21/06 0:00	10-5	14056	1.456	510.400	9.794	535.200	7.373	ND	ND	0.250	0.083	0.000
5/21/06 12:00	10-6	14057	0.895	513.600	6.409	540.000	4.939	ND	ND	0.165	0.057	0.000
5/22/06 0:00	10-7	14058	1.652	518.400	7.387	535.200	5.772	ND	ND	0.172	0.058	0.000
5/22/06 12:00	10-8	14059	1.672	512.800	11.634	536.000	8.919	ND	ND	0.299	0.101	0.000
5/23/06 0:00	10-9	14060	2.335	516.800	6.454	543.200	5.164	ND	ND	0.124	0.040	0.000
5/23/06 12:00	10-10	14061	1.021	516.000	6.771	540.000	4.833	ND	ND	0.173	0.053	0.000
5/24/06 0:00	10-11	14062	1.328	515.200	6.538	537.600	4.793	ND	ND	0.156	0.049	0.000
5/24/06 12:00	10-12	14063	1.309	516.800	6.527	535.200	4.938	ND	ND	0.157	0.051	0.000
5/25/06 0:00	10-13	14064	1.206	515.200	6.452	536.800	5.076	ND	ND	0.157	0.054	0.000
5/25/06 12:00	10-14	14065	1.203	513.600	6.100	539.200	4.631	ND	ND	0.147	0.048	0.000
5/26/06 0:00	10-15	14066	1.212	513.600	6.440	536.000	4.803	ND	ND	0.157	0.050	0.000
5/26/06 12:00	10-16	14067	1.451	512.000	7.234	535.200	5.486	ND	ND	0.173	0.056	0.000
5/27/06 0:00	11-1	14665	1.952	510.400	18.611	536.800	14.939	ND	ND	0.500	0.182	0.000
5/27/06 12:00	11-2	14666	1.499	511.200	9.236	535.200	7.051	ND	ND	0.232	0.078	0.000
5/28/06 0:00	11-3	14667	1.464	516.000	7.147	536.800	5.855	ND	ND	0.170	0.061	0.000
5/28/06 12:00	11-4	14668	1.335	514.400	8.898	535.200	6.193	ND	ND	0.227	0.068	0.000
5/29/06 0:00	11-5	14669	1.454	510.400	9.397	535.200	7.370	ND	ND	0.238	0.083	0.000
5/29/06 12:00	11-6	14670	1.415	512.000	8.450	535.200	5.822	ND	ND	0.211	0.062	0.000
5/30/06 0:00	11-7	14671	1.613	516.800	10.018	536.000	7.680	ND	ND	0.252	0.085	0.000
5/30/06 12:00	11-8	14672	1.551	516.800	10.532	535.200	7.551	ND	ND	0.269	0.084	0.000
5/31/06 0:00	11-9	14673	1.494	510.400	8.199	535.200	5.670	ND	ND	0.201	0.058	0.000
5/31/06 12:00	11-10	14674	1.717	510.400	15.414	536.000	11.524	ND	ND	0.411	0.137	0.000
6/1/06 0:00	11-11	14675	1.524	517.600	7.567	535.200	6.525	ND	ND	0.181	0.070	0.000
6/1/06 12:00	11-12	14676	1.698	513.600	8.545	535.200	5.607	ND	ND	0.205	0.055	0.000
6/2/06 0:00	11-13	14677	1.660	514.400	9.187	535.200	6.951	ND	ND	0.226	0.074	0.000
6/2/06 12:00	11-14	14678	1.624	515.200	9.842	535.200	7.355	ND	ND	0.247	0.080	0.000
6/3/06 0:00	11-15	14679	1.608	512.000	11.127	536.000	8.322	ND	ND	0.286	0.094	0.000
6/3/06 12:00	12-1	14680	1.538	515.200	7.461	535.200	5.214	ND	ND	0.178	0.051	0.000
6/4/06 0:00	12-2	14681	1.471	514.400	8.094	535.200	6.650	ND	ND	0.199	0.073	0.000
6/4/06 12:00	12-3	14682	1.627	510.400	8.390	536.800	6.137	ND	ND	0.203	0.063	0.000

Appendix 1. IS spectroflourophotometric data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
6/5/06 0:00	12-4	14683	1.491	515.200	7.539	535.200	5.456	ND	ND	0.181	0.056	0.000
6/5/06 12:00	12-5	14684	1.711	510.400	8.262	535.200	6.383	ND	ND	0.197	0.065	0.000
6/6/06 0:00	12-6	14685	1.547	510.400	7.011	536.800	5.217	ND	ND	0.164	0.051	0.000
6/6/06 12:00	12-7	14686	1.484	515.200	7.511	536.800	5.077	ND	ND	0.181	0.050	0.000
6/7/06 0:00	12-8	14687	1.589	515.200	7.837	535.200	6.075	ND	ND	0.187	0.063	0.000
6/7/06 12:00	12-9	14688	1.335	514.400	7.471	537.600	5.429	ND	ND	0.184	0.057	0.000
6/8/06 0:00	12-10	14689	1.564	516.800	7.963	535.200	6.262	ND	ND	0.192	0.066	0.000
6/8/06 12:00	12-11	14690	1.473	511.200	7.341	535.200	5.332	ND	ND	0.176	0.054	0.000
6/9/06 0:00	12-12	14691	1.649	511.200	6.973	535.200	5.379	ND	ND	0.160	0.052	0.000
6/9/06 12:00	13-1	14692	1.492	514.400	8.566	535.200	6.047	ND	ND	0.212	0.064	0.000
6/10/06 0:00	13-2	14693	1.166	510.400	7.846	535.200	5.311	ND	ND	0.200	0.058	0.000
6/10/06 12:00	13-3	14694	1.158	514.400	7.446	535.200	5.911	ND	ND	0.189	0.067	0.000
6/11/06 0:00	13-4	14695	1.025	512.800	5.920	535.200	4.611	ND	ND	0.147	0.050	0.000
6/11/06 12:00	13-5	14696	1.052	516.000	5.816	535.200	4.063	ND	ND	0.143	0.042	0.000
6/12/06 0:00	13-6	14697	1.062	514.400	6.275	535.200	3.995	ND	ND	0.156	0.041	0.000
6/12/06 12:00	13-7	14698	0.921	510.400	5.334	535.200	4.590	ND	ND	0.132	0.051	0.000
6/13/06 0:00	13-8	14699	0.947	510.400	6.676	535.200	4.433	ND	ND	0.172	0.049	0.000
6/13/06 12:00	13-9	14700	1.102	514.400	6.030	535.200	3.743	ND	ND	0.148	0.037	0.000
6/14/06 0:00	13-10	14701	1.092	512.800	5.770	537.600	4.094	ND	ND	0.140	0.042	0.000
6/14/06 12:00	13-11	14702	0.971	510.400	5.891	537.600	3.729	ND	ND	0.148	0.039	0.000
6/15/06 0:00	13-12	14703	0.982	516.000	5.279	535.200	3.819	ND	ND	0.129	0.040	0.000
6/15/06 12:00	13-13	14704	1.146	515.200	5.819	535.200	4.169	ND	ND	0.140	0.042	0.000
6/16/06 0:00	13-14	14705	1.173	513.600	6.979	537.600	4.724	ND	ND	0.174	0.050	0.000
6/16/06 12:00	14-1	15018	1.816	524.800	4.236	539.200	4.626	ND	ND	0.073	0.039	0.000
6/17/06 0:00	14-2	15019	2.141	524.800	5.106	540.800	5.611	ND	ND	0.089	0.049	0.000
6/17/06 12:00	14-3	15020	1.795	524.800	5.505	544.000	6.180	ND	ND	0.111	0.061	0.000
6/18/06 0:00	14-4	15021	1.582	524.800	3.645	544.000	4.124	ND	ND	0.062	0.036	0.000
6/18/06 12:00	14-5	15022	1.478	524.800	4.970	549.600	5.659	ND	ND	0.105	0.059	0.000
6/19/06 0:00	14-6	15023	1.786	524.800	4.750	539.200	5.103	ND	ND	0.089	0.046	0.000
6/19/06 12:00	14-7	15024	1.689	524.800	2.828	549.600	3.972	ND	ND	0.034	0.032	0.000
6/20/06 0:00	14-8	15025	1.779	524.800	4.419	549.600	5.146	ND	ND	0.079	0.047	0.000
6/20/06 12:00	14-9	15026	2.038	524.800	3.693	549.600	4.366	ND	ND	0.050	0.033	0.000
6/21/06 0:00	14-10	15027	1.623	524.800	2.772	549.600	4.133	ND	ND	0.034	0.035	0.000
6/21/06 12:00	14-11	15028	1.668	524.800	3.716	547.200	4.301	ND	ND	0.061	0.037	0.000
6/22/06 0:00	14-12	15029	1.591	524.800	2.824	549.600	4.268	ND	ND	0.037	0.037	0.000
6/22/06 12:00	14-13	15030	2.230	524.800	5.842	535.200	6.140	ND	ND	0.108	0.055	0.000
6/23/06 0:00	14-14	15031	1.196	524.800	2.400	549.600	3.483	ND	ND	0.036	0.032	0.000
6/23/06 12:00	15-1	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
6/24/06 0:00	15-2	17255	1.973	510.400	10.974	535.200	4.018	ND	ND	0.270	0.029	0.000
6/24/06 12:00	15-3	17256	1.398	510.400	9.219	535.200	4.032	ND	ND	0.235	0.037	0.000
6/25/06 0:00	15-4	17257	0.865	512.800	2.396	536.000	1.647	ND	ND	0.046	0.011	0.000

Appendix 1. IS spectroflourophotometric data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
6/25/06 12:00	15-5	17258	3.597	510.400	12.305	535.200	7.059	ND	ND	0.261	0.048	0.000
6/26/06 0:00	15-6	17259	0.410	516.000	1.763	535.200	1.281	ND	ND	0.041	0.012	0.000
6/26/06 12:00	15-7	17260	1.363	510.400	4.457	536.000	3.312	ND	ND	0.093	0.027	0.000
6/27/06 0:00	15-8	17262	0.978	520.000	2.736	535.200	1.929	ND	ND	0.053	0.013	0.000
6/27/06 12:00	15-9	17261	0.385	512.800	1.254	535.200	0.748	ND	ND	0.026	0.005	0.000
6/28/06 0:00	15-10	17263	0.479	520.800	2.516	535.200	1.742	ND	ND	0.061	0.018	0.000
6/28/06 12:00	15-11	17264	0.429	511.200	1.567	535.200	0.997	ND	ND	0.034	0.008	0.000
6/29/06 0:00	15-12	17265	1.748	511.200	3.813	535.200	3.070	ND	ND	0.062	0.019	0.000
6/29/06 12:00	15-13	17266	0.600	520.800	2.464	535.200	1.731	ND	ND	0.056	0.016	0.000
6/30/06 0:00	15-14	17267	1.718	510.400	9.907	535.200	4.601	ND	ND	0.246	0.040	0.000
6/30/06 12:00	16-1	17268	1.347	514.400	8.232	535.200	4.388	ND	ND	0.207	0.043	0.000
7/1/06 0:00	16-2	17269	0.519	524.800	1.915	535.200	1.878	ND	ND	0.042	0.019	0.000
7/1/06 12:00	16-3	17270	0.412	510.400	1.874	535.200	1.070	ND	ND	0.044	0.009	0.000
7/2/06 0:00	16-4	17271	1.226	510.400	7.361	535.200	2.717	ND	ND	0.184	0.021	0.000
7/2/06 12:00	16-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/3/06 0:00	16-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/3/06 12:00	16-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/4/06 0:00	16-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/4/06 12:00	16-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/5/06 0:00	16-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/5/06 12:00	16-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/6/06 0:00	16-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/6/06 12:00	16-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/7/06 0:00	16-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/7/06 12:00	16-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/8/06 0:00	16-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/8/06 12:00	16-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/9/06 0:00	16-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/9/06 12:00	16-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/10/06 0:00	16-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/10/06 12:00	16-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/11/06 0:00	16-22	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/11/06 12:00	16-23	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/12/06 0:00	16a-1	17675	0.112	512.000	0.481	535.200	0.286	ND	ND	0.011	0.002	0.000
7/12/06 12:00	16a-2	17676	0.100	512.800	0.269	536.000	0.155	ND	ND	0.005	0.001	0.000
7/13/06 0:00	16a-3	17677	0.077	513.600	0.345	536.000	0.153	ND	ND	0.008	0.001	0.000
7/13/06 12:00	16a-4	17678	0.160	516.800	0.421	535.200	0.301	ND	ND	0.008	0.002	0.000
7/14/06 0:00	16a-5	17679	0.059	511.200	0.310	535.200	0.157	ND	ND	0.008	0.001	0.000
7/14/06 12:00	16a-6	17680	0.048	510.400	0.313	535.200	0.110	ND	ND	0.008	0.001	0.000
7/15/06 0:00	16a-7	17681	0.076	510.400	0.346	539.200	0.146	ND	ND	0.008	0.001	0.000
7/15/06 12:00	16a-8	17682	0.046	511.200	0.294	535.200	0.116	ND	ND	0.007	0.001	0.000

Appendix 1. IS spectroflourophotometric data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
7/16/06 0:00	16a-9	17683	0.136	516.000	0.448	535.200	0.270	ND	ND	0.009	0.002	0.000
7/16/06 12:00	16a-10	17684	0.095	510.400	0.296	535.200	0.145	ND	ND	0.006	0.001	0.000
7/17/06 0:00	16a-11	17685	0.065	512.800	0.280	535.200	0.108	ND	ND	0.006	0.001	0.000
7/17/06 12:00	16a-12	17686	0.132	516.800	0.419	535.200	0.331	ND	ND	0.009	0.003	0.000
7/18/06 0:00	16a-13	17687	0.094	514.400	0.295	535.200	0.154	ND	ND	0.006	0.001	0.000
7/18/06 12:00	16a-14	17688	0.130	517.600	0.366	535.200	0.203	ND	ND	0.007	0.001	0.000
7/19/06 0:00	17-1	15123	1.498	524.800	4.203	549.600	5.143	ND	ND	0.081	0.051	0.000
7/19/06 12:00	17-2	15124	1.805	524.800	3.727	549.600	6.711	ND	ND	0.058	0.069	0.000
7/20/06 0:00	17-3	15125	1.085	524.800	3.455	536.800	3.717	ND	ND	0.071	0.037	0.000
7/20/06 12:00	17-4	15126	1.670	524.800	3.695	549.600	4.508	ND	ND	0.061	0.040	0.000
7/21/06 0:00	17-5	15127	1.189	524.800	2.610	549.600	4.271	ND	ND	0.043	0.043	0.000
7/21/06 12:00	17-6	15128	1.213	524.800	3.373	548.000	3.777	ND	ND	0.065	0.036	0.000
7/22/06 0:00	17-7	15129	1.425	524.800	3.266	547.200	3.516	ND	ND	0.055	0.029	0.000
7/22/06 12:00	17-8	15130	1.750	524.800	3.221	549.600	4.052	ND	ND	0.044	0.032	0.000
7/23/06 0:00	17-9	15131	1.109	524.800	2.204	549.600	3.420	ND	ND	0.033	0.032	0.000
7/23/06 12:00	17-10	15132	1.616	524.800	3.663	541.600	3.898	ND	ND	0.061	0.032	0.000
7/24/06 0:00	17-11	15133	1.651	524.800	3.035	549.600	3.739	ND	ND	0.042	0.029	0.000
7/24/06 12:00	17-12	15134	1.179	524.800	2.430	549.600	3.780	ND	ND	0.038	0.036	0.000
7/25/06 0:00	17-13	15135	3.051	524.800	5.275	549.600	5.911	ND	ND	0.067	0.040	0.000
7/25/06 12:00	17-14	15136	1.444	524.800	2.732	549.600	4.203	ND	ND	0.039	0.039	0.000
7/26/06 0:00	18-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/26/06 12:00	18-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/27/06 0:00	18-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/27/06 12:00	18-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/28/06 0:00	18-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/28/06 12:00	18-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/29/06 0:00	18-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/29/06 12:00	18-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/30/06 0:00	18-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/30/06 12:00	18-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/31/06 0:00	18-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/31/06 12:00	18-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/1/06 0:00	18-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/1/06 12:00	18-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/2/06 0:00	19-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/2/06 12:00	19-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/3/06 0:00	19-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/3/06 12:00	19-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/4/06 0:00	19-5	17640	0.112	524.000	0.679	535.200	0.402	ND	ND	0.017	0.004	0.000
8/4/06 12:00	19-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/5/06 0:00	19-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 1. IS spectroflourophotometric data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
8/5/06 12:00	19-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/6/06 0:00	19-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/6/06 12:00	19-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/7/06 0:00	19-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/7/06 12:00	19-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/8/06 0:00	19-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/8/06 12:00	19-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/9/06 0:00	19-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/9/06 12:00	19-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/10/06 0:00	19-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/10/06 12:00	20-1	16224	0.609	517.600	2.001	ND	ND	ND	ND	0.042	0.000	0.000
8/11/06 0:00	20-2	16225	0.536	521.600	2.303	ND	ND	ND	ND	0.053	0.000	0.000
8/11/06 12:00	20-3	16226	0.398	518.400	1.474	ND	ND	ND	ND	0.032	0.000	0.000
8/12/06 0:00	20-4	16227	0.607	519.200	1.691	ND	ND	ND	ND	0.033	0.000	0.000
8/12/06 12:00	20-5	16228	0.372	521.600	1.452	ND	ND	ND	ND	0.032	0.000	0.000
8/13/06 0:00	20-6	16229	0.395	520.000	1.494	ND	ND	ND	ND	0.033	0.000	0.000
8/13/06 12:00	20-7	16230	0.304	519.200	1.012	ND	ND	ND	ND	0.021	0.000	0.000
8/14/06 0:00	20-8	16231	0.302	519.200	1.028	ND	ND	ND	ND	0.022	0.000	0.000
8/14/06 12:00	20-9	16232	0.342	514.400	1.111	ND	ND	ND	ND	0.023	0.000	0.000
8/15/06 0:00	20-10	16233	0.270	518.400	1.125	ND	ND	ND	ND	0.026	0.000	0.000
8/15/06 12:00	20-11	16234	0.244	522.400	1.048	ND	ND	ND	ND	0.024	0.000	0.000
8/16/06 0:00	20-12	16235	0.370	520.000	1.284	ND	ND	ND	ND	0.027	0.000	0.000
8/16/06 12:00	20-13	16236	0.248	522.400	1.131	ND	ND	ND	ND	0.026	0.000	0.000
8/17/06 0:00	20-14	16237	0.230	520.000	1.379	ND	ND	ND	ND	0.034	0.000	0.000
8/17/06 12:00	20-15	16238	0.248	521.600	0.903	ND	ND	ND	ND	0.020	0.000	0.000
8/18/06 0:00	20-16	16239	0.000	523.200	1.247	ND	ND	ND	ND	0.037	0.000	0.000
8/18/06 12:00	20-17	16240	0.000	518.400	3.307	ND	ND	ND	ND	0.099	0.000	0.000
8/19/06 0:00	20-18	16241	0.000	520.800	3.860	ND	ND	ND	ND	0.116	0.000	0.000
8/19/06 12:00	20-19	16242	0.900	518.400	3.196	ND	ND	ND	ND	0.069	0.000	0.000
8/20/06 0:00	20-20	16243	1.615	522.400	4.228	ND	ND	ND	ND	0.078	0.000	0.000
8/20/06 12:00	20-21	16244	1.238	519.200	3.529	ND	ND	ND	ND	0.069	0.000	0.000
8/21/06 0:00	20-22	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/21/06 12:00	20-23	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/22/06 0:00	21-1	16598	0.770	523.200	6.010	535.200	3.691	ND	ND	0.157	0.041	0.000
8/22/06 12:00	21-2	16599	0.742	523.200	5.662	535.200	3.524	ND	ND	0.148	0.039	0.000
8/23/06 0:00	21-3	16600	1.395	523.200	5.748	535.200	3.551	ND	ND	0.131	0.030	0.000
8/23/06 12:00	21-4	16601	0.879	519.200	4.012	535.200	2.445	ND	ND	0.094	0.022	0.000
8/24/06 0:00	21-5	16602	1.066	522.400	6.987	535.200	3.773	ND	ND	0.178	0.038	0.000
8/24/06 12:00	21-6	16602	1.066	522.400	6.987	535.200	3.773	ND	ND	0.178	0.038	0.000
8/25/06 0:00	21-7	16603	0.877	510.400	3.317	535.200	1.510	ND	ND	0.073	0.009	0.000
8/25/06 12:00	21-8	16604	0.743	516.800	2.713	535.200	1.732	ND	ND	0.059	0.014	0.000

Appendix 1. IS spectroflourophotometric data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
8/26/06 0:00	21-9	16605	1.222	522.400	5.812	535.200	3.624	ND	ND	0.138	0.034	0.000
8/26/06 12:00	21-10	16606	1.013	523.200	3.690	535.200	2.620	ND	ND	0.080	0.022	0.000
8/27/06 0:00	21-11	16607	0.936	520.800	4.658	535.200	2.593	ND	ND	0.112	0.023	0.000
8/27/06 12:00	21-12	16608	0.877	518.400	3.171	535.200	1.899	ND	ND	0.069	0.014	0.000
8/28/06 0:00	21-13	16609	0.947	519.200	2.812	535.200	1.841	ND	ND	0.056	0.013	0.000
8/28/06 12:00	21-14	16610	1.058	520.800	3.391	535.200	2.274	ND	ND	0.070	0.017	0.000
8/29/06 0:00	21-15	16611	0.816	521.600	2.810	535.200	1.779	ND	ND	0.060	0.013	0.000
8/29/06 12:00	21-16	16612	0.681	520.000	2.407	535.200	1.471	ND	ND	0.052	0.011	0.000
8/30/06 0:00	21-17	16613	0.724	523.200	2.827	535.200	1.745	ND	ND	0.063	0.014	0.000
8/30/06 12:00	22-1	17465	0.458	512.800	1.380	535.200	0.788	ND	ND	0.028	0.005	0.000
8/31/06 0:00	22-2	17466	0.553	524.800	2.711	535.200	2.395	ND	ND	0.065	0.026	0.000
8/31/06 12:00	22-3	17467	0.320	520.000	1.083	535.200	0.735	ND	ND	0.023	0.006	0.000
9/1/06 0:00	22-4	17468	0.274	521.600	1.599	535.200	0.875	ND	ND	0.040	0.008	0.000
9/1/06 12:00	22-5	17469	0.338	518.400	1.093	535.200	0.678	ND	ND	0.023	0.005	0.000
9/2/06 0:00	22-6	17470	0.446	512.800	1.321	535.200	0.749	ND	ND	0.026	0.004	0.000
9/2/06 12:00	22-7	17471	0.345	524.000	1.399	535.200	1.110	ND	ND	0.032	0.011	0.000
9/3/06 0:00	22-8	17472	0.265	522.400	1.261	535.200	0.729	ND	ND	0.030	0.006	0.000
9/3/06 12:00	22-9	17473	0.284	520.000	0.999	535.200	0.636	ND	ND	0.021	0.005	0.000
9/4/06 0:00	22-10	17474	0.338	522.400	1.285	535.200	0.782	ND	ND	0.028	0.006	0.000
9/4/06 12:00	22-11	17475	0.231	521.600	1.142	535.200	0.658	ND	ND	0.027	0.006	0.000
9/5/06 0:00	22-12	17476	0.305	523.200	1.360	535.200	1.113	ND	ND	0.032	0.011	0.000
9/5/06 12:00	22-13	17477	0.228	523.200	0.700	535.200	0.428	ND	ND	0.014	0.003	0.000
9/6/06 0:00	22-14	17478	0.200	521.600	0.676	535.200	0.417	ND	ND	0.014	0.003	0.000
9/6/06 12:00	22-15	17479	0.221	519.200	0.650	535.200	0.423	ND	ND	0.013	0.003	0.000
9/7/06 0:00	22-16	17480	0.230	523.200	36.123	535.200	0.426	ND	ND	1.077	0.003	0.000
9/7/06 12:00	22-17	17481	0.218	520.800	0.595	535.200	0.398	ND	ND	0.011	0.003	0.000
9/8/06 0:00	22-18	17482	0.203	516.000	0.661	535.200	0.361	ND	ND	0.014	0.002	0.000
9/8/06 12:00	22-19	17483	0.248	517.600	0.650	535.200	0.444	ND	ND	0.012	0.003	0.000
9/9/06 0:00	23-1	16998	0.833	515.200	2.774	535.200	1.569	ND	ND	0.058	0.010	0.000
9/9/06 12:00	23-2	16999	1.239	518.400	2.672	535.200	1.957	ND	ND	0.043	0.010	0.000
9/10/06 0:00	23-3	17000	0.730	516.000	1.989	535.200	1.176	ND	ND	0.038	0.006	0.000
9/10/06 12:00	23-4	17001	0.576	514.400	2.762	535.200	1.368	ND	ND	0.066	0.011	0.000
9/11/06 0:00	23-5	17002	0.516	510.400	1.818	535.200	0.848	ND	ND	0.039	0.005	0.000
9/11/06 12:00	23-6	17003	0.661	520.000	2.162	535.200	1.488	ND	ND	0.045	0.012	0.000
9/12/06 0:00	23-7	17004	1.142	518.400	2.309	535.200	1.843	ND	ND	0.035	0.010	0.000
9/12/06 12:00	23-8	17005	0.543	511.200	1.354	536.000	0.889	ND	ND	0.024	0.005	0.000
9/13/06 0:00	23-9	17006	0.964	524.800	2.927	535.200	2.810	ND	ND	0.059	0.026	0.000
9/13/06 12:00	23-10	17007	0.438	511.200	1.614	535.200	0.933	ND	ND	0.035	0.007	0.000
9/14/06 0:00	23-11	17008	0.496	524.800	1.587	535.200	1.452	ND	ND	0.033	0.013	0.000
9/14/06 12:00	23-12	17009	0.478	519.200	1.307	535.200	0.855	ND	ND	0.025	0.005	0.000
9/15/06 0:00	23-13	17010	0.527	523.200	1.441	535.200	0.966	ND	ND	0.027	0.006	0.000

Appendix 1. IS spectroflourophotometric data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
9/15/06 12:00	23-14	17011	0.427	520.000	1.032	535.200	0.756	ND	ND	0.018	0.005	0.000
9/16/06 0:00	23-15	17012	0.325	513.600	1.076	535.200	0.663	ND	ND	0.023	0.005	0.000
9/16/06 12:00	23-16	17013	0.520	516.000	1.159	535.200	0.842	ND	ND	0.019	0.005	0.000
9/17/06 0:00	23-17	17014	0.246	518.400	0.771	535.200	0.479	ND	ND	0.016	0.003	0.000
9/17/06 12:00	23-18	17015	0.336	520.800	1.033	535.200	0.651	ND	ND	0.021	0.004	0.000
9/18/06 0:00	23-19	17016	0.350	517.600	0.858	535.200	0.563	ND	ND	0.015	0.003	0.000
9/18/06 12:00	24-1	17890	0.204	516.000	0.708	535.200	0.420	ND	ND	0.015	0.003	0.000
9/19/06 0:00	24-2	17891	0.363	519.200	0.795	536.000	0.588	ND	ND	0.013	0.003	0.000
9/19/06 12:00	24-3	17892	0.122	519.200	0.575	535.200	0.312	ND	ND	0.014	0.003	0.000
9/20/06 0:00	24-4	17893	0.102	517.600	0.484	535.200	0.278	ND	ND	0.011	0.002	0.000
9/20/06 12:00	24-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/21/06 0:00	24-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/21/06 12:00	24-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/22/06 0:00	24-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/22/06 12:00	24-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/23/06 0:00	24-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/23/06 12:00	24-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/24/06 0:00	24-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/24/06 12:00	24-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/25/06 0:00	24-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/25/06 12:00	24-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/26/06 0:00	24-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/26/06 12:00	24-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/27/06 0:00	24-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/27/06 12:00	24-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/28/06 0:00	24-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/28/06 12:00	24-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 2. MBE spectrofluorophotometer data.

			m3/sec	*cfs*						*Estimated Mass Recovered (g)*		
	Highest Probable Flow		*1.82*	*64.2*						*1499*	*989*	*N/A*
	Lowest Probable Flow		*0.90*	*31.8*						*742*	*489*	*N/A*
	Probable Average Flow		*1.21*	*42.8*						*1000*	*660*	*N/A*
	Max		*38.138*	*524.800*	*79.517*	*549.600*	*139.372*	*556.000*	*3.504*	*1.811*	*1.417*	*0.030*
	Min		*0.000*	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*	*-0.005*	*-0.007*	*0.000*
	Count		*366*	*276*	*276*	*360*	*360*	*34*	*32*	*549*	*549*	*549*
Date Time	**Field Sample Number**	**Lab Sample Number**	**Meas. Baseline (MEAS)**	**AY73 Wavelen (MEAS)**	**AY73 Intens (MEAS)**	**AR87 Wavelen (MEAS)**	**AR87 Intens (MEAS)**	**AR92 Wavelen (MEAS)**	**AR92 Intens (MEAS)**	**AY73 PPB (CALC)**	**AR87 PPB (CALC)**	**AR92 PPB (CALC)**
1/30/06 12:00	1-1	11086	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 0:00	1-2	11087	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 12:00	1-3	11088	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/1/06 0:00	1-4	11089	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/1/06 12:00	1-5	11090	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/2/06 0:00	1-6	11091	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/2/06 12:00	1-7	11092	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/3/06 0:00	1-8	11093	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/3/06 12:00	1-9	11094	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/4/06 0:00	1-10	11095	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/4/06 12:00	1-11	11096	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/5/06 0:00	2-1	11624	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/5/06 12:00	2-2	11625	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/6/06 0:00	2-3	11626	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/6/06 12:00	2-4	11627	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/7/06 0:00	2-5	11628	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/7/06 12:00	2-6	11629	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/8/06 0:00	2-7	11630	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/8/06 12:00	2-8	11631	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/9/06 0:00	2-9	11632	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/9/06 12:00	2-10	11633	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/10/06 0:00	2-11	11634	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/10/06 12:00	2-12	11635	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/11/06 0:00	2-13	11636	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/11/06 12:00	2-14	11637	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/12/06 0:00	3-1	12070	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/12/06 12:00	3-2	12071	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/13/06 0:00	3-3	12072	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000

Appendix 2. MBE spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
2/13/06 12:00	3-4	12073	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/14/06 0:00	3-5	12074	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/14/06 12:00	3-6	12075	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/15/06 0:00	3-7	12076	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/15/06 12:00	3-8	12077	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/16/06 0:00	3-9	12078	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/16/06 12:00	3-10	12079	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/17/06 0:00	3-11	12080	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/17/06 12:00	3-12	12081	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/18/06 0:00	3-13	12082	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/18/06 12:00	3-14	12083	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/19/06 0:00	4-1	12320	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/19/06 12:00	4-2	12321	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/20/06 0:00	4-3	12322	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/20/06 12:00	4-4	12323	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/21/06 0:00	4-5	12324	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/21/06 12:00	4-6	12325	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/22/06 0:00	4-7	12326	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/22/06 12:00	4-8	12327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/23/06 0:00	4-9	12328	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/23/06 12:00	4-10	12329	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/24/06 0:00	4-11	12330	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/24/06 12:00	4-12	12331	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/25/06 0:00	4-13	12332	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/25/06 12:00	5-1	12203	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/26/06 0:00	5-2	12204	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/26/06 12:00	5-3	12205	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/27/06 0:00	5-4	12206	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/27/06 12:00	5-5	12207	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/28/06 0:00	5-6	12208	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/28/06 12:00	5-7	12209	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/1/06 0:00	5-8	12210	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/1/06 12:00	5-9	12211	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/2/06 0:00	5-10	12212	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/2/06 12:00	5-11	12213	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/3/06 0:00	5-12	12214	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/3/06 12:00	5-13	12215	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/4/06 0:00	5-14	12216	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/4/06 12:00	5-15	12217	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/5/06 0:00	6-1	12560	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/5/06 12:00	6-2	12561	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000

Appendix 2. MBE spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
3/6/06 0:00	6-3	12562	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/6/06 12:00	6-4	12563	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/7/06 0:00	6-5	12564	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/7/06 12:00	6-6	12565	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/8/06 0:00	6-7	12566	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/8/06 12:00	6-8	12567	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/9/06 0:00	6-9	12568	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/9/06 12:00	6-10	12569	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/10/06 0:00	6-11	12570	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/10/06 12:00	6-12	12571	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/11/06 0:00	6-13	12572	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/11/06 12:00	6-14	12573	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/12/06 0:00	7-1	12674	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/12/06 12:00	7-2	12675	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/13/06 0:00	7-3	12676	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/13/06 12:00	7-4	12677	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/14/06 0:00	7-5	12678	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/14/06 12:00	7-6	12679	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/15/06 0:00	7-7	12680	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/15/06 12:00	7-8	12681	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/16/06 0:00	7-9	12682	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/16/06 12:00	7-10	12683	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/17/06 0:00	7-11	12684	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/17/06 12:00	7-12	12685	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/18/06 0:00	7-13	12686	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/18/06 12:00	7-14	12687	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/19/06 0:00	7-15	12688	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/19/06 12:00	7-16	12689	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/20/06 0:00	8-1	12879	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/20/06 12:00	8-2	12880	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/21/06 0:00	8-3	12881	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/21/06 12:00	8-4	12882	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/22/06 0:00	8-5	12883	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/22/06 12:00	8-6	12884	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/23/06 0:00	8-7	12885	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/23/06 12:00	8-8	12886	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/24/06 0:00	8-9	12887	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/24/06 0:00	8-9	12888	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/24/06 12:00	8-10	12889	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/25/06 0:00	8-11	12890	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/25/06 12:00	8-12	12891	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000

Appendix 2. MBE spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
3/26/06 0:00	9-1	12830	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/26/06 12:00	9-2	12831	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/27/06 0:00	9-3	12832	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/27/06 12:00	9-4	12833	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/28/06 0:00	9-5	12834	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/28/06 12:00	9-6	12835	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/29/06 0:00	9-7	12836	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/29/06 12:00	9-8	12837	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/30/06 0:00	9-9	12838	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/30/06 12:00	9-10	12839	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/31/06 0:00	9-11	12840	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/31/06 12:00	9-12	12841	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/1/06 0:00	9-13	12842	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/1/06 12:00	9-14	12843	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/2/06 0:00	9-15	12844	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/2/06 12:00	9-16	12845	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/3/06 0:00	9-17	12846	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/3/06 12:00	9-18	12847	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/4/06 0:00	9-19	12848	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/4/06 12:00	9-20	12849	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/5/06 0:00	10-1	13663	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/5/06 12:00	10-2	13664	1.342	510.400	7.396	ND	ND	ND	ND	0.182	0.000	0.000
4/6/06 0:00	10-3	13665	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/6/06 12:00	10-4	13666	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/7/06 0:00	10-5	13667	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/7/06 12:00	10-6	13668	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/8/06 0:00	10-7	13669	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/8/06 12:00	10-8	13670	1.045	ND	ND	535.200	5.389	ND	ND	0.000	0.061	0.000
4/9/06 0:00	10-9	13671	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/9/06 12:00	10-10	13672	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/10/06 0:00	10-11	13673	1.339	ND	ND	536.000	5.837	ND	ND	0.000	0.063	0.000
4/10/06 12:00	10-12	13674	1.203	ND	ND	535.200	4.492	ND	ND	0.000	0.046	0.000
4/11/06 0:00	10-13	13675	1.344	ND	ND	ND	ND	556.000	3.504	0.000	0.000	0.030
4/11/06 12:00	10-14	13676	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/12/06 0:00	11-1	13480	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/12/06 12:00	11-2	13481	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/13/06 0:00	11-3	13482	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/13/06 12:00	11-4	13483	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/14/06 0:00	11-5	13484	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/14/06 12:00	11-6	13485	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/15/06 0:00	11-7	13486	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000

Appendix 2. MBE spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
4/15/06 12:00	11-8	13487	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/16/06 0:00	11-9	13488	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/16/06 12:00	11-10	13489	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/17/06 0:00	11-11	13490	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/17/06 12:00	11-12	13491	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/18/06 0:00	11-13	13492	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/18/06 12:00	11-14	13493	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/19/06 0:00	12-1	13326	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/19/06 12:00	12-2	13327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/20/06 0:00	12-3	13328	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/20/06 12:00	12-4	13329	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/21/06 0:00	12-5	13330	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/21/06 12:00	12-6	13331	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/22/06 0:00	12-7	13332	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/22/06 12:00	12-8	13333	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/23/06 0:00	12-9	13334	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/23/06 12:00	12-10	13335	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/24/06 0:00	12-11	13336	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/24/06 12:00	12-12	13337	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/25/06 0:00	12-13	13338	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/25/06 12:00	12-14	13339	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/26/06 0:00	13-1	13746	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/26/06 12:00	13-2	13747	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/27/06 0:00	13-3	13748	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/27/06 12:00	13-4	13749	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/28/06 0:00	13-5	13750	0.970	513.600	8.023	ND	ND	ND	ND	0.212	0.000	0.000
4/28/06 12:00	13-6	13751	1.359	510.400	9.013	538.400	6.526	ND	ND	0.230	0.072	0.000
4/29/06 0:00	13-7	13752	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/29/06 12:00	13-8	13753	1.055	512.000	7.339	535.200	5.121	0.000	ND	0.189	0.057	0.000
4/30/06 0:00	13-9	13754	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/30/06 12:00	13-10	13755	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/1/06 0:00	13-11	13756	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/1/06 12:00	13-12	13757	1.332	ND	ND	535.200	8.360	0.000	ND	0.000	0.098	0.000
5/2/06 0:00	13-13	13758	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/2/06 12:00	13-14	13759	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/3/06 0:00	14-1	13991	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/3/06 12:00	14-2	13992	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/4/06 0:00	14-3	13993	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/4/06 12:00	14-4	13994	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/5/06 0:00	14-5	no sample	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/5/06 12:00	14-6	13995	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000

Appendix 2. MBE spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/1/04 0:00	14-grab	13996	1.314	ND	ND	536.000	9.673	ND	ND	0.000	0.117	0.000
5/6/06 0:00	14-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/6/06 12:00	14-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/7/06 0:00	14-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/7/06 12:00	14-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/8/06 0:00	14-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/8/06 12:00	14-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/9/06 0:00	14-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/9/06 12:00	14-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/10/06 0:00	15-1	14196	1.735	514.400	10.855	536.000	9.214	ND	ND	0.274	0.105	0.000
5/10/06 12:00	15-2	14197	1.404	510.400	14.105	535.200	11.614	ND	ND	0.381	0.143	0.000
5/11/06 0:00	15-3	14198	1.402	510.400	9.840	535.200	9.059	ND	ND	0.253	0.107	0.000
5/11/06 12:00	15-4	14199	1.405	510.400	17.054	536.000	12.776	ND	ND	0.469	0.159	0.000
5/12/06 0:00	15-5	14200	1.282	510.400	15.371	535.200	12.754	ND	ND	0.423	0.161	0.000
5/12/06 12:00	15-6	14201	1.123	510.400	11.834	540.000	9.681	ND	ND	0.321	0.120	0.000
5/13/06 0:00	15-7	14202	1.387	511.200	13.438	540.800	11.596	ND	ND	0.362	0.143	0.000
5/13/06 12:00	15-8	14203	1.148	510.400	8.859	541.600	7.980	ND	ND	0.231	0.096	0.000
5/14/06 0:00	15-9	14204	1.418	510.400	9.952	540.000	8.590	ND	ND	0.256	0.100	0.000
5/14/06 12:00	15-10	14205	1.328	510.400	10.391	535.200	9.104	ND	ND	0.272	0.109	0.000
5/15/06 0:00	15-11	14206	1.243	511.200	9.155	536.000	7.984	ND	ND	0.237	0.094	0.000
5/15/06 12:00	15-12	14207	1.283	511.200	8.392	536.000	6.683	ND	ND	0.213	0.076	0.000
5/16/06 0:00	15-13	14208	1.417	510.400	8.431	542.400	7.854	ND	ND	0.210	0.090	0.000
5/16/06 12:00	15-14	14209	1.144	510.400	9.917	535.200	8.225	ND	ND	0.263	0.099	0.000
5/17/06 0:00	15-15	14210	1.201	510.400	9.301	536.800	7.052	ND	ND	0.243	0.082	0.000
5/17/06 12:00	15-16	14211	1.479	510.400	14.533	535.200	11.439	ND	ND	0.392	0.139	0.000
5/18/06 0:00	15-17	14212	1.123	510.400	7.695	537.600	6.483	ND	ND	0.197	0.075	0.000
5/18/06 12:00	15-18	14213	1.537	511.200	9.847	535.200	7.684	ND	ND	0.249	0.086	0.000
5/19/06 0:00	16-1	14068	1.853	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/19/06 12:00	16-2	14069	1.426	510.400	8.089	535.200	6.723	ND	ND	0.200	0.074	0.000
5/20/06 0:00	16-3	14070	1.372	ND	ND	537.600	5.957	ND	ND	0.000	0.064	0.000
5/20/06 12:00	16-4	14071	1.262	ND	ND	536.000	7.258	ND	ND	0.000	0.084	0.000
5/21/06 0:00	16-5	14072	1.528	510.400	9.144	536.000	7.309	ND	ND	0.228	0.081	0.000
5/21/06 12:00	16-6	14073	1.207	ND	ND	536.000	5.860	ND	ND	0.000	0.065	0.000
5/22/06 0:00	16-7	14074	1.558	512.800	8.315	538.400	6.804	ND	ND	0.203	0.073	0.000
5/22/06 12:00	16-8	14075	1.397	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/23/06 0:00	16-9	14076	3.436	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/23/06 12:00	16-10	14077	1.429	510.400	8.065	538.400	6.018	ND	ND	0.199	0.064	0.000
5/24/06 0:00	16-11	14078	1.418	ND	ND	539.200	7.507	ND	ND	0.000	0.085	0.000
5/24/06 12:00	16-12	14079	1.511	ND	ND	535.200	6.217	ND	ND	0.000	0.066	0.000
5/25/06 0:00	16-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/25/06 12:00	16-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A

Appendix 2. MBE spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
5/26/06 0:00	16-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/26/06 12:00	16-16	14080	1.452	ND	ND	535.200	5.926	ND	ND	0.000	0.063	0.000
5/27/06 0:00	17-1	17503	0.258	519.200	1.007	535.200	0.729	ND	ND	0.022	0.007	0.000
5/27/06 12:00	17-2	17504	0.240	524.800	1.017	535.200	0.788	ND	ND	0.023	0.008	0.000
5/28/06 0:00	17-3	17505	0.205	518.400	0.675	535.200	0.575	ND	ND	0.014	0.005	0.000
5/28/06 12:00	17-4	17506	0.183	524.800	0.702	535.200	0.632	ND	ND	0.016	0.006	0.000
5/29/06 0:00	17-5	17507	0.305	514.400	0.901	536.000	0.656	ND	ND	0.018	0.005	0.000
5/29/06 12:00	17-6	17508	0.385	524.800	0.987	535.200	0.836	ND	ND	0.018	0.006	0.000
5/30/06 0:00	17-7	17509	0.224	510.400	0.969	535.200	0.592	ND	ND	0.022	0.005	0.000
5/30/06 12:00	17-8	17510	0.219	523.200	0.721	535.200	0.650	ND	ND	0.015	0.006	0.000
5/31/06 0:00	17-9	17511	0.196	519.200	0.661	535.200	0.482	ND	ND	0.014	0.004	0.000
5/31/06 12:00	17-10	17512	0.264	518.400	0.685	536.000	0.559	ND	ND	0.013	0.004	0.000
6/1/06 0:00	17-11	17513	0.275	524.800	0.660	536.000	0.562	ND	ND	0.012	0.004	0.000
6/1/06 12:00	17-12	17514	0.255	511.200	0.993	535.200	0.675	ND	ND	0.022	0.006	0.000
6/2/06 0:00	17-13	17515	0.369	510.400	1.028	536.000	0.785	ND	ND	0.020	0.006	0.000
6/2/06 12:00	17-14	17516	0.210	521.600	0.850	535.200	0.665	ND	ND	0.019	0.006	0.000
6/3/06 0:00	17-15	17517	0.444	516.800	1.290	535.200	1.060	ND	ND	0.025	0.009	0.000
6/3/06 12:00	17-16	17518	0.228	519.200	0.727	535.200	0.577	ND	ND	0.015	0.005	0.000
6/4/06 0:00	18-1	14654	2.049	510.400	11.653	539.200	10.007	ND	ND	0.288	0.111	0.000
6/4/06 12:00	18-2	14655	1.770	510.400	9.471	535.200	9.184	ND	ND	0.231	0.104	0.000
6/5/06 0:00	18-3	14656	1.772	510.400	10.069	537.600	8.781	ND	ND	0.249	0.098	0.000
6/5/06 12:00	18-4	14657	1.694	510.400	8.078	536.000	7.499	ND	ND	0.192	0.081	0.000
6/6/06 0:00	18-5	14658	1.621	511.200	7.915	537.600	6.794	ND	ND	0.189	0.072	0.000
6/6/06 12:00	18-6	14659	1.848	510.400	8.718	536.000	6.976	ND	ND	0.206	0.072	0.000
6/7/06 0:00	18-7	14660	1.850	510.400	10.251	536.000	8.490	ND	ND	0.252	0.093	0.000
6/7/06 12:00	18-8	14661	1.469	511.200	8.945	536.000	7.801	ND	ND	0.224	0.089	0.000
6/8/06 0:00	18-9	14662	1.607	510.400	9.453	535.200	7.570	ND	ND	0.235	0.083	0.000
6/8/06 12:00	18-10	14663	1.701	510.400	9.728	537.600	9.109	ND	ND	0.241	0.104	0.000
6/9/06 0:00	18-11	14664	1.938	510.400	11.402	536.800	9.503	ND	ND	0.284	0.106	0.000
6/9/06 12:00	19-1	14724	1.029	510.400	6.217	537.600	6.112	ND	ND	0.156	0.071	0.000
6/10/06 0:00	19-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/10/06 12:00	19-3	14726	1.342	ND	ND	541.600	7.154	ND	ND	0.000	0.081	0.000
6/11/06 0:00	19-4	14727	1.340	ND	ND	535.200	6.987	ND	ND	0.000	0.079	0.000
6/11/06 12:00	19-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/12/06 0:00	19-6	14729	1.605	ND	ND	535.200	8.035	ND	ND	0.000	0.090	0.000
6/12/06 12:00	19-7	14730	1.228	ND	ND	540.800	7.677	ND	ND	0.000	0.090	0.000
6/13/06 0:00	19-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/13/06 12:00	19-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/14/06 0:00	19-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/14/06 12:00	19-11	14734	1.432	ND	ND	535.200	10.705	ND	ND	0.000	0.130	0.000
6/15/06 0:00	19-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 2. MBE spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
6/15/06 12:00	19-13	14736	3.065	ND	ND	541.600	7.862	ND	ND	0.000	0.067	0.000
6/16/06 0:00	19-14	14737	1.174	ND	ND	535.200	7.748	ND	ND	0.000	0.092	0.000
6/16/06 12:00	19-15	14738	1.456	ND	ND	539.200	8.470	ND	ND	0.000	0.098	0.000
6/17/06 0:00	19-16	14739	1.249	ND	ND	536.800	7.365	ND	ND	0.000	0.086	0.000
6/17/06 12:00	19-17	14740	0.956	ND	ND	535.200	8.153	ND	ND	0.000	0.101	0.000
6/18/06 0:00	19-18	14741	1.440	ND	ND	538.400	6.858	ND	ND	0.000	0.076	0.000
6/18/06 12:00	19-19	14742	1.508	ND	ND	536.800	8.046	ND	ND	0.000	0.092	0.000
6/19/06 0:00	19-20	14743	1.435	ND	ND	543.200	6.782	ND	ND	0.000	0.075	0.000
6/19/06 12:00	19-21	14744	1.259	ND	ND	536.000	8.105	ND	ND	0.000	0.096	0.000
6/20/06 0:00	19-22	14745	1.233	ND	ND	538.400	7.243	ND	ND	0.000	0.084	0.000
6/20/06 12:00	20-1	17371	0.048	510.400	0.360	538.400	0.221	ND	ND	0.009	0.002	0.000
6/21/06 0:00	20-2	17372	0.052	ND	ND	535.200	0.274	ND	ND	0.000	0.003	0.000
6/21/06 12:00	20-3	17373	0.103	ND	ND	535.200	0.372	ND	ND	0.000	0.004	0.000
6/22/06 0:00	20-4	17374	0.073	524.000	0.492	535.200	0.348	ND	ND	0.013	0.004	0.000
6/22/06 12:00	20-5	17375	0.058	521.600	0.274	535.200	0.229	ND	ND	0.006	0.002	0.000
6/23/06 0:00	20-6	17376	0.071	520.800	0.366	535.200	0.296	ND	ND	0.009	0.003	0.000
6/23/06 12:00	20-7	17377	0.053	ND	ND	535.200	0.246	ND	ND	0.000	0.003	0.000
6/24/06 0:00	20-8	17378	0.067	ND	ND	535.200	0.249	ND	ND	0.000	0.003	0.000
6/24/06 12:00	20-9	17380	0.047	ND	ND	535.200	0.270	ND	ND	0.000	0.003	0.000
6/25/06 0:00	20-10	17381	0.071	ND	ND	536.000	0.234	ND	ND	0.000	0.002	0.000
6/25/06 12:00	20-11	17382	0.071	ND	ND	539.200	0.254	ND	ND	0.000	0.003	0.000
6/26/06 0:00	20-12	17383	0.078	ND	ND	535.200	0.312	ND	ND	0.000	0.003	0.000
6/26/06 12:00	20-13	17384	0.062	ND	ND	535.200	0.217	ND	ND	0.000	0.002	0.000
6/27/06 0:00	20-14	17385	0.039	ND	ND	535.200	0.217	ND	ND	0.000	0.002	0.000
6/27/06 12:00	20-15	17386	0.139	ND	ND	535.200	0.390	ND	ND	0.000	0.004	0.000
6/28/06 0:00	20-16	17387	0.058	ND	ND	535.200	0.215	ND	ND	0.000	0.002	0.000
6/28/06 12:00	20-17	17388	0.054	ND	ND	535.200	0.228	ND	ND	0.000	0.002	0.000
6/29/06 0:00	20-18	17389	0.036	ND	ND	540.800	0.179	ND	ND	0.000	0.002	0.000
6/29/06 12:00	20-19	17390	0.064	ND	ND	535.200	0.251	ND	ND	0.000	0.003	0.000
6/30/06 0:00	20-20	17272	0.533	524.800	1.707	535.200	1.439	ND	ND	0.035	0.013	0.000
6/30/06 12:00	21-1	17273	0.614	510.400	1.526	535.200	1.042	ND	ND	0.027	0.006	0.000
7/1/06 0:00	21-2	17274	1.200	518.400	3.542	535.200	0.752	ND	ND	0.070	-0.006	0.000
7/1/06 12:00	21-3	17275	1.215	510.400	2.936	535.200	0.747	ND	ND	0.052	-0.007	0.000
7/2/06 0:00	21-4	17276	0.612	523.200	2.002	535.200	0.767	ND	ND	0.042	0.002	0.000
7/2/06 12:00	21-5	17277	0.419	524.800	1.924	535.200	0.776	ND	ND	0.045	0.005	0.000
7/3/06 0:00	21-6	17278	0.481	510.400	1.546	535.200	0.585	ND	ND	0.032	0.001	0.000
7/3/06 12:00	21-7	17279	0.397	524.800	2.026	535.200	0.533	ND	ND	0.049	0.002	0.000
7/4/06 0:00	21-8	17280	0.317	524.000	0.949	536.000	0.772	ND	ND	0.019	0.006	0.000
7/4/06 12:00	21-9	17281	0.177	510.400	0.970	535.200	0.728	ND	ND	0.024	0.008	0.000
7/5/06 0:00	21-10	17282	0.192	510.400	0.937	535.200	0.764	ND	ND	0.022	0.008	0.000
7/5/06 12:00	21-11	17283	0.310	510.400	0.783	535.200	0.760	ND	ND	0.014	0.006	0.000

Appendix 2. MBE spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
7/6/06 0:00	21-12	17284	0.986	518.400	4.741	535.200	3.436	ND	ND	0.113	0.034	0.000
7/6/06 12:00	21-13	17285	0.543	511.200	1.338	536.800	1.132	ND	ND	0.024	0.008	0.000
7/7/06 0:00	21-14	17286	0.321	524.800	0.879	535.200	0.829	ND	ND	0.017	0.007	0.000
7/7/06 12:00	21-15	17287	0.254	523.200	0.820	536.000	0.685	ND	ND	0.017	0.006	0.000
7/8/06 0:00	21-16	17288	0.234	524.000	0.706	535.200	0.641	ND	ND	0.014	0.006	0.000
7/8/06 12:00	21-17	17289	0.497	524.800	1.662	535.200	1.538	ND	ND	0.035	0.015	0.000
7/9/06 0:00	21-18	17290	0.244	518.400	0.634	535.200	0.603	ND	ND	0.012	0.005	0.000
7/9/06 12:00	21-19	17291	0.250	516.000	0.862	537.600	0.742	ND	ND	0.018	0.007	0.000
7/10/06 0:00	21-20	17292	0.140	520.800	0.684	535.200	0.599	ND	ND	0.016	0.006	0.000
7/10/06 12:00	21-21	17293	0.270	520.800	0.794	536.000	0.675	ND	ND	0.016	0.006	0.000
7/11/06 0:00	21-22	17294	0.765	524.800	2.820	535.200	2.506	ND	ND	0.062	0.024	0.000
7/11/06 12:00	21-23	17705	0.104	511.200	0.427	535.200	0.296	ND	ND	0.010	0.003	0.000
7/12/06 0:00	22-1	17706	0.082	516.800	0.323	535.200	0.233	ND	ND	0.007	0.002	0.000
7/12/06 12:00	22-2	17707	0.106	520.000	0.541	535.200	0.385	ND	ND	0.013	0.004	0.000
7/13/06 0:00	22-3	17708	0.054	518.400	0.297	535.200	0.201	ND	ND	0.007	0.002	0.000
7/13/06 12:00	22-4	17709	0.095	520.800	0.333	536.000	0.269	ND	ND	0.007	0.002	0.000
7/14/06 0:00	22-5	17710	0.085	510.400	0.327	535.200	0.224	ND	ND	0.007	0.002	0.000
7/14/06 12:00	22-6	17711	0.072	524.000	0.264	535.200	0.236	ND	ND	0.006	0.002	0.000
7/15/06 0:00	22-7	17712	0.077	524.000	0.343	535.200	0.284	ND	ND	0.008	0.003	0.000
7/15/06 12:00	22-8	17713	0.091	524.000	0.427	535.200	0.316	ND	ND	0.010	0.003	0.000
7/16/06 0:00	22-9	17714	0.087	510.400	0.356	536.000	0.237	ND	ND	0.008	0.002	0.000
7/16/06 12:00	22-10	17715	0.064	518.400	0.270	535.200	0.229	ND	ND	0.006	0.002	0.000
7/17/06 0:00	22-11	17716	0.086	520.800	0.444	535.200	0.380	ND	ND	0.011	0.004	0.000
7/17/06 12:00	22-12	17717	0.108	516.000	0.331	535.200	0.272	ND	ND	0.007	0.002	0.000
7/18/06 0:00	22-13	17718	0.131	518.400	0.351	536.800	0.301	ND	ND	0.007	0.002	0.000
7/18/06 12:00	22-14	15193	5.505	510.400	11.637	535.200	10.162	ND	ND	0.184	0.065	0.000
7/19/06 0:00	23-1	15194	4.128	510.400	7.903	549.600	7.109	ND	ND	0.113	0.042	0.000
7/19/06 12:00	23-2	15195	6.324	512.800	9.819	549.600	9.394	ND	ND	0.105	0.043	0.000
7/20/06 0:00	23-3	15196	5.038	512.800	8.066	535.200	7.839	ND	ND	0.091	0.039	0.000
7/20/06 12:00	23-4	15197	4.006	510.400	6.002	549.600	6.462	ND	ND	0.060	0.034	0.000
7/21/06 0:00	23-5	15198	4.235	516.800	6.614	535.200	6.491	ND	ND	0.071	0.032	0.000
7/21/06 12:00	23-6	15199	3.281	510.400	5.106	549.600	5.120	ND	ND	0.055	0.026	0.000
7/22/06 0:00	23-7	15200	4.796	524.800	8.278	535.200	8.335	ND	ND	0.104	0.050	0.000
7/22/06 12:00	23-8	15201	19.137	512.800	79.517	535.200	69.478	ND	ND	1.811	0.705	0.000
7/23/06 0:00	23-9	15202	3.631	510.400	5.633	549.600	5.319	ND	ND	0.060	0.024	0.000
7/23/06 12:00	23-10	15203	3.599	510.400	4.694	549.600	5.116	ND	ND	0.033	0.021	0.000
7/24/06 0:00	23-11	15204	8.814	511.200	15.829	535.200	13.939	ND	ND	0.210	0.072	0.000
7/24/06 12:00	23-12	15205	5.450	511.200	6.772	549.600	7.417	ND	ND	0.040	0.028	0.000
7/25/06 0:00	23-13	15205	5.450	511.200	6.772	549.600	7.417	ND	ND	0.040	0.028	0.000
7/25/06 12:00	23-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/26/06 0:00	24-1	15137	3.713	510.400	5.533	549.600	5.699	ND	ND	0.055	0.028	0.000

Appendix 2. MBE spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
7/26/06 12:00	24-2	15138	2.975	510.400	4.526	549.600	4.766	ND	ND	0.047	0.025	0.000
7/27/06 0:00	24-3	15139	3.091	510.400	4.312	549.600	5.000	ND	ND	0.037	0.027	0.000
7/27/06 12:00	24-4	15140	2.505	510.400	3.842	549.600	4.027	ND	ND	0.040	0.021	0.000
7/28/06 0:00	24-5	15141	2.867	510.400	4.359	549.600	4.444	ND	ND	0.045	0.022	0.000
7/28/06 12:00	24-6	15142	5.770	512.800	8.550	549.600	11.940	ND	ND	0.083	0.086	0.000
7/29/06 0:00	24-7	15143	2.644	512.800	4.765	535.200	4.690	ND	ND	0.064	0.029	0.000
7/29/06 12:00	24-8	15144	5.477	513.600	5.766	549.600	9.557	ND	ND	0.009	0.057	0.000
7/30/06 0:00	24-9	15145	2.733	510.400	4.205	549.600	4.448	ND	ND	0.044	0.024	0.000
7/30/06 12:00	24-10	15145	2.733	510.400	4.205	549.600	4.448	ND	ND	0.044	0.024	0.000
7/31/06 0:00	24-11	15146	3.142	512.800	4.648	549.600	5.221	ND	ND	0.045	0.029	0.000
7/31/06 12:00	24-12	15147	3.880	510.400	6.817	549.600	6.352	ND	ND	0.088	0.035	0.000
8/1/06 0:00	24-13	15148	4.177	510.400	6.295	549.600	6.008	ND	ND	0.064	0.026	0.000
8/1/06 12:00	24-14	15149	2.566	510.400	4.266	549.600	4.420	ND	ND	0.051	0.026	0.000
8/2/06 0:00	25-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/2/06 12:00	25-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/3/06 0:00	25-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/3/06 12:00	25-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/4/06 0:00	25-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/4/06 12:00	25-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/5/06 0:00	25-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/5/06 12:00	25-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/6/06 0:00	25-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/6/06 12:00	25-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/7/06 0:00	25-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/7/06 12:00	25-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/8/06 0:00	25-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/8/06 12:00	25-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/9/06 0:00	25-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/9/06 12:00	25-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/10/06 0:00	25-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/10/06 12:00	26-1	16269	0.300	ND	ND	535.200	0.632	ND	ND	0.000	0.005	0.000
8/11/06 0:00	26-2	16270	0.303	ND	ND	535.200	0.976	ND	ND	0.000	0.009	0.000
8/11/06 12:00	26-3	16271	0.324	ND	ND	535.200	0.743	ND	ND	0.000	0.006	0.000
8/12/06 0:00	26-4	16272	0.253	ND	ND	535.200	0.603	ND	ND	0.000	0.005	0.000
8/12/06 12:00	26-5	16273	0.246	ND	ND	536.000	0.537	ND	ND	0.000	0.004	0.000
8/13/06 0:00	26-6	16274	0.495	ND	ND	535.200	2.215	ND	ND	0.000	0.024	0.000
8/13/06 12:00	26-7	16275	0.396	ND	ND	535.200	1.439	ND	ND	0.000	0.015	0.000
8/14/06 0:00	26-8	16276	0.422	ND	ND	535.200	1.042	ND	ND	0.000	0.009	0.000
8/14/06 12:00	26-9	16277	0.297	ND	ND	535.200	0.752	ND	ND	0.000	0.006	0.000
8/15/06 0:00	26-10	16278	0.324	ND	ND	535.200	0.747	ND	ND	0.000	0.006	0.000
8/15/06 12:00	26-11	16279	0.385	ND	ND	535.200	0.767	ND	ND	0.000	0.005	0.000

Appendix 2. MBE spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
8/16/06 0:00	26-12	16280	0.360	ND	ND	535.200	0.776	ND	ND	0.000	0.006	0.000
8/16/06 12:00	26-13	16281	0.260	ND	ND	535.200	0.585	ND	ND	0.000	0.005	0.000
8/17/06 0:00	26-14	16282	0.210	ND	ND	535.200	0.533	ND	ND	0.000	0.005	0.000
8/17/06 12:00	26-15	16283	0.233	ND	ND	535.200	0.614	ND	ND	0.000	0.005	0.000
8/18/06 0:00	26-16	16284	0.243	ND	ND	535.200	0.566	ND	ND	0.000	0.005	0.000
8/18/06 12:00	26-17	16285	0.222	ND	ND	535.200	0.512	ND	ND	0.000	0.004	0.000
8/19/06 0:00	26-18	16286	0.205	ND	ND	535.200	0.717	ND	ND	0.000	0.007	0.000
8/19/06 12:00	26-19	16287	0.208	ND	ND	535.200	0.573	ND	ND	0.000	0.005	0.000
8/20/06 0:00	26-20	16288	0.275	ND	ND	535.200	0.587	ND	ND	0.000	0.004	0.000
8/20/06 12:00	26-21	16289	0.243	ND	ND	535.200	0.626	ND	ND	0.000	0.005	0.000
8/21/06 0:00	26-22	16290	0.182	ND	ND	535.200	0.449	ND	ND	0.000	0.004	0.000
8/21/06 12:00	26-23	16291	38.138	ND	ND	548.800	139.372	ND	ND	0.000	1.417	0.000
8/22/06 0:00	27-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/22/06 12:00	27-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/23/06 0:00	27-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/23/06 12:00	27-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/24/06 0:00	27-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/24/06 12:00	27-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/25/06 0:00	27-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/25/06 12:00	27-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/26/06 0:00	27-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/26/06 12:00	27-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/27/06 0:00	27-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/27/06 12:00	27-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/28/06 0:00	27-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/28/06 12:00	27-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/29/06 0:00	27-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/29/06 12:00	27-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/30/06 0:00	27-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/30/06 12:00	28-1	17154	0.142	510.400	0.369	536.000	0.271	ND	ND	0.007	0.002	0.000
8/31/06 0:00	28-2	17155	0.221	524.800	2.215	535.200	1.700	ND	ND	0.060	0.021	0.000
8/31/06 12:00	28-3	17156	0.104	512.000	0.540	535.200	0.366	ND	ND	0.013	0.004	0.000
9/1/06 0:00	28-4	17157	0.354	519.200	0.966	535.200	0.817	ND	ND	0.018	0.006	0.000
9/1/06 12:00	28-5	17158	0.121	523.200	0.496	535.200	0.373	ND	ND	0.011	0.004	0.000
9/2/06 0:00	28-6	17159	0.144	522.400	0.600	535.200	0.525	ND	ND	0.014	0.005	0.000
9/2/06 12:00	28-7	17160	0.129	518.400	0.493	535.200	0.424	ND	ND	0.011	0.004	0.000
9/3/06 0:00	28-8	17161	0.141	524.800	0.812	535.200	0.671	ND	ND	0.020	0.007	0.000
9/3/06 12:00	28-9	17162	0.099	524.800	0.841	535.200	0.645	ND	ND	0.022	0.008	0.000
9/4/06 0:00	28-10	17163	0.171	515.200	0.571	535.200	0.432	ND	ND	0.012	0.004	0.000
9/4/06 12:00	28-11	17164	0.099	520.000	0.379	535.200	0.278	ND	ND	0.008	0.003	0.000
9/5/06 0:00	28-12	17171	0.085	516.800	0.306	535.200	0.219	ND	ND	0.007	0.002	0.000

Appendix 2. MBE spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
9/5/06 12:00	28-13	17165	0.413	510.400	1.646	535.200	1.138	ND	ND	0.037	0.010	0.000
9/6/06 0:00	28-14	17166	0.190	524.000	0.645	535.200	0.553	ND	ND	0.014	0.005	0.000
9/6/06 12:00	28-15	17167	0.148	524.800	0.693	535.200	0.625	ND	ND	0.016	0.007	0.000
9/7/06 0:00	28-16	17168	0.058	520.000	0.208	535.200	0.190	ND	ND	0.005	0.002	0.000
9/7/06 12:00	28-17	17169	0.136	524.800	1.017	535.200	0.845	ND	ND	0.026	0.010	0.000
9/8/06 0:00	28-18	17170	0.257	518.400	0.696	536.000	0.575	ND	ND	0.013	0.004	0.000
9/8/06 12:00	29-1	17072	0.228	524.800	0.655	535.200	0.590	ND	ND	0.013	0.005	0.000
9/9/06 0:00	29-2	17073	0.267	510.400	1.867	535.200	1.354	ND	ND	0.048	0.015	0.000
9/9/06 12:00	29-3	17074	0.288	510.400	1.698	535.200	1.226	ND	ND	0.042	0.013	0.000
9/10/06 0:00	29-4	17075	0.395	524.800	1.616	535.200	1.405	ND	ND	0.037	0.014	0.000
9/10/06 12:00	29-5	17076	0.295	522.400	0.708	535.200	0.589	ND	ND	0.012	0.004	0.000
9/11/06 0:00	29-6	17077	0.257	510.400	0.806	535.200	0.526	ND	ND	0.016	0.004	0.000
9/11/06 12:00	29-7	17078	0.234	510.400	1.025	535.200	0.792	ND	ND	0.024	0.008	0.000
9/12/06 0:00	29-8	17079	0.189	520.800	0.584	535.200	0.449	ND	ND	0.012	0.004	0.000
9/12/06 12:00	29-9	17080	0.237	524.800	3.246	535.200	2.555	ND	ND	0.090	0.032	0.000
9/13/06 0:00	29-10	17081	0.222	518.400	0.544	535.200	0.409	ND	ND	0.010	0.003	0.000
9/13/06 12:00	29-11	17082	0.312	524.800	2.605	535.200	2.165	ND	ND	0.069	0.026	0.000
9/14/06 0:00	29-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/14/06 12:00	29-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/15/06 0:00	29-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/15/06 12:00	29-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/16/06 0:00	29-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/16/06 12:00	29-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/17/06 0:00	29-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/17/06 12:00	29-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/18/06 0:00	29-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/18/06 12:00	30-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/19/06 0:00	30-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/19/06 12:00	30-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/20/06 0:00	30-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/20/06 12:00	30-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/21/06 0:00	30-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/21/06 12:00	30-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/22/06 0:00	30-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/22/06 12:00	30-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/23/06 0:00	30-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/23/06 12:00	30-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/24/06 0:00	30-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/24/06 12:00	30-13	16687	0.133	ND	ND	535.200	0.319	ND	ND	0.000	0.003	0.000
9/25/06 0:00	30-14	16688	0.443	ND	ND	535.200	1.530	ND	ND	0.000	0.015	0.000
9/25/06 12:00	30-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 2. MBE spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
9/26/06 0:00	30-16	16688	0.443	ND	ND	535.200	1.530	ND	ND	0.000	0.015	0.000
9/26/06 12:00	30-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/27/06 0:00	30-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/27/06 12:00	30-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/28/06 0:00	30-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/28/06 12:00	31-1	17916	0.104	524.000	0.349	535.200	0.315	ND	ND	0.007	0.003	0.000
9/29/06 0:00	31-2	17917	0.110	520.000	0.367	535.200	0.273	ND	ND	0.008	0.002	0.000
9/29/06 12:00	31-3	17918	0.117	512.000	0.506	535.200	0.339	ND	ND	0.012	0.003	0.000
9/30/06 0:00	31-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/30/06 12:00	31-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/1/06 0:00	31-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/1/06 12:00	31-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/2/06 0:00	31-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/2/06 12:00	31-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/3/06 0:00	31-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/3/06 12:00	31-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/4/06 0:00	31-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/4/06 12:00	31-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/5/06 0:00	31-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/5/06 12:00	31-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/6/06 0:00	31-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/6/06 12:00	31-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/7/06 0:00	31-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/7/06 12:00	31-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/8/06 0:00	31-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/8/06 12:00	31-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/9/06 0:00	31-22	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/9/06 12:00	31-23	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/10/06 0:00	31-24	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/11/06 0:00	32-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/11/06 12:00	32-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/12/06 0:00	32-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/12/06 12:00	32-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/13/06 0:00	32-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/13/06 12:00	32-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/14/06 0:00	32-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/14/06 12:00	32-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/15/06 0:00	32-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/15/06 12:00	32-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/16/06 0:00	32-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/16/06 12:00	32-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 2. MBE spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
10/17/06 0:00	32-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/17/06 12:00	32-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/18/06 0:00	32-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/18/06 12:00	32-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/19/06 0:00	33-1	16805	1.559	521.600	5.245	535.200	4.228	ND	ND	0.111	0.037	0.000
10/19/06 12:00	33-2	16806	2.592	518.400	8.956	536.000	7.846	ND	ND	0.191	0.074	0.000
10/20/06 0:00	33-3	16807	1.653	518.400	4.428	535.200	3.518	ND	ND	0.083	0.026	0.000
10/20/06 12:00	33-4	16808	1.994	516.000	4.530	535.200	3.625	ND	ND	0.076	0.023	0.000
10/21/06 0:00	33-5	16809	2.062	521.600	5.184	535.200	4.754	ND	ND	0.094	0.038	0.000
10/21/06 12:00	33-6	16810	1.104	520.000	2.874	535.200	2.278	ND	ND	0.053	0.016	0.000
10/22/06 0:00	33-7	16811	1.336	521.600	3.235	535.200	2.684	ND	ND	0.057	0.019	0.000
10/22/06 12:00	33-8	16812	1.740	510.400	3.527	535.200	2.890	ND	ND	0.054	0.016	0.000
10/23/06 0:00	33-9	16813	1.608	510.400	4.778	535.200	3.464	ND	ND	0.095	0.026	0.000
10/23/06 12:00	33-10	16814	1.210	518.400	4.041	535.200	2.846	ND	ND	0.085	0.023	0.000
10/24/06 0:00	33-11	16815	1.079	521.600	3.199	535.200	2.421	ND	ND	0.064	0.019	0.000
10/24/06 12:00	33-12	16816	0.976	524.800	4.731	535.200	3.956	ND	ND	0.113	0.042	0.000
10/25/06 0:00	33-13	16817	1.996	523.200	4.500	535.200	3.898	ND	ND	0.075	0.027	0.000
10/25/06 12:00	33-14	16818	0.888	518.400	2.286	535.200	1.762	ND	ND	0.042	0.012	0.000
10/26/06 0:00	33-15	16819	1.350	517.600	2.768	535.200	2.229	ND	ND	0.043	0.012	0.000
10/26/06 12:00	33-16	16820	0.682	520.000	1.806	535.200	1.359	ND	ND	0.034	0.009	0.000
10/27/06 0:00	33-17	16821	0.829	518.400	2.228	535.200	1.634	ND	ND	0.042	0.011	0.000
10/27/06 12:00	33-18	16821	0.829	518.400	2.228	535.200	1.634	ND	ND	0.042	0.011	0.000
10/28/06 0:00	34-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/28/06 12:00	34-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/29/06 0:00	34-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/29/06 12:00	34-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/30/06 0:00	34-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/30/06 12:00	34-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/31/06 0:00	34-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/31/06 12:00	34-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/1/06 0:00	34-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/1/06 12:00	34-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/2/06 0:00	34-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/2/06 12:00	34-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/3/06 0:00	34-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/3/06 12:00	34-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/4/06 0:00	34-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/4/06 12:00	34-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/5/06 0:00	34-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/5/06 12:00	34-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/6/06 0:00	34-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 2. MBE spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
11/6/06 12:00	34-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/7/06 0:00	34-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/7/06 12:00	34-22	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/8/06 0:00	35-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/8/06 12:00	35-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/9/06 0:00	35-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/9/06 12:00	35-4	16756	2.754	ND	ND	535.200	5.989	ND	ND	0.000	0.045	0.000
11/10/06 0:00	35-5	16757	7.259	ND	ND	535.200	35.444	ND	ND	0.000	0.395	0.000
11/10/06 12:00	35-6	16758	1.709	ND	ND	535.200	3.949	ND	ND	0.000	0.031	0.000
11/11/06 0:00	35-7	16759	2.514	ND	ND	535.200	8.700	ND	ND	0.000	0.087	0.000
11/11/06 12:00	35-8	16760	2.237	ND	ND	535.200	8.045	ND	ND	0.000	0.081	0.000
11/12/06 0:00	35-9	16761	3.781	ND	ND	535.200	15.968	ND	ND	0.000	0.171	0.000
11/12/06 12:00	35-10	16762	2.636	ND	ND	535.200	8.993	ND	ND	0.000	0.089	0.000
11/13/06 0:00	35-11	16763	1.985	ND	ND	535.200	6.745	ND	ND	0.000	0.067	0.000
11/13/06 12:00	35-12	16764	5.624	ND	ND	535.200	16.324	ND	ND	0.000	0.150	0.000
11/14/06 0:00	35-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/14/06 12:00	35-14	16766	9.657	ND	ND	535.200	22.599	ND	ND	0.000	0.181	0.000
11/15/06 0:00	35-15	16767	2.020	ND	ND	535.200	4.297	ND	ND	0.000	0.032	0.000
11/15/06 12:00	35-16	16776	3.890	ND	ND	535.200	10.603	ND	ND	0.000	0.094	0.000
11/16/06 0:00	35-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/16/06 12:00	35-18	16769	2.409	ND	ND	535.200	7.625	ND	ND	0.000	0.073	0.000
11/17/06 0:00	35-19	16770	4.867	ND	ND	535.200	12.585	ND	ND	0.000	0.108	0.000
11/17/06 12:00	35-20	16771	5.147	ND	ND	535.200	15.536	ND	ND	0.000	0.145	0.000
11/18/06 0:00	35-21	16772	3.839	ND	ND	535.200	11.314	ND	ND	0.000	0.105	0.000
11/18/06 12:00	35-22	16773	2.695	ND	ND	535.200	6.684	ND	ND	0.000	0.056	0.000
11/19/06 0:00	35-23	16774	2.127	ND	ND	535.200	6.168	ND	ND	0.000	0.057	0.000
11/19/06 12:00	35-24	16775	2.317	ND	ND	535.200	6.347	ND	ND	0.000	0.056	0.000
11/21/06 13:50	36-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/22/06 12:00	36-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/23/06 12:00	36-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/24/06 12:00	36-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/25/06 12:00	36-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/26/06 12:00	36-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/27/06 12:00	36-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/28/06 12:00	36-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/29/06 12:00	36-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/30/06 12:00	36-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/1/06 12:00	36-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/2/06 12:00	36-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/3/06 12:00	36-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/4/06 12:00	36-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 2. MBE spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
12/5/06 12:00	36-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/6/06 12:00	36-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/7/06 12:00	37-1	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/8/06 12:00	37-2	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/9/06 12:00	37-3	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/10/06 12:00	37-4	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/11/06 12:00	37-5	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/12/06 12:00	37-6	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/13/06 12:00	37-7	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/14/06 12:00	37-8	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/15/06 12:00	37-9	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/16/06 12:00	37-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/17/06 12:00	37-11	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/18/06 12:00	37-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/19/06 12:00	37-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/20/06 12:00	37-14	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/21/06 12:00	37-15	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/22/06 12:00	37-16	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/23/06 12:00	37-17	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/24/06 12:00	37-18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/25/06 12:00	37-19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/26/06 12:00	37-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12/27/06 12:00	38-1	17944	0.611	510.400	2.485	535.200	1.936	ND	ND	0.056	0.019	0.000
12/28/06 12:00	38-2	17945	0.230	519.200	1.064	535.200	0.908	ND	ND	0.025	0.009	0.000
12/29/06 12:00	38-3	17946	0.355	511.200	1.194	535.200	0.910	ND	ND	0.025	0.008	0.000
12/30/06 12:00	38-4	17947	0.198	524.800	1.085	535.200	0.883	ND	ND	0.027	0.010	0.000
12/31/06 12:00	38-5	17948	0.289	523.200	1.419	535.200	1.163	ND	ND	0.034	0.012	0.000
1/1/07 12:00	38-6	17949	0.151	510.400	0.593	535.200	0.385	ND	ND	0.013	0.003	0.000
1/2/07 12:00	38-7	17950	0.133	518.400	0.579	535.200	0.428	ND	ND	0.013	0.004	0.000
1/3/07 12:00	38-8	17951	0.099	518.400	0.456	535.200	0.303	ND	ND	0.011	0.003	0.000
1/4/07 12:00	38-9	17952	0.125	519.200	0.511	535.200	0.377	ND	ND	0.012	0.004	0.000
1/5/07 12:00	38-10	17953	0.277	524.800	1.828	535.200	1.454	ND	ND	0.047	0.016	0.000
1/6/07 12:00	38-11	17954	0.491	524.800	4.487	535.200	3.312	ND	ND	0.120	0.039	0.000
1/7/07 12:00	38-12	17955	0.209	510.400	0.936	535.200	0.645	ND	ND	0.022	0.006	0.000
1/8/07 12:00	38-13	17956	0.418	510.400	1.567	535.200	1.212	ND	ND	0.034	0.011	0.000
1/9/07 12:00	38-14	17957	0.106	510.400	0.543	535.200	0.333	ND	ND	0.013	0.003	0.000
1/10/07 12:00	38-15	17958	0.306	524.800	2.908	535.200	2.077	ND	ND	0.078	0.025	0.000
1/11/07 12:00	38-16	17959	0.091	512.000	0.352	535.200	0.237	ND	ND	0.008	0.002	0.000
1/12/07 12:00	38-17	17960	0.208	514.400	0.684	535.200	0.512	ND	ND	0.014	0.004	0.000
1/13/07 12:00	39-1	18029	0.211	517.600	0.923	535.200	0.689	ND	ND	0.021	0.007	0.000
1/14/07 12:00	39-2	18030	0.338	510.400	1.151	535.200	0.864	ND	ND	0.024	0.007	0.000

Appendix 2. MBE spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/15/07 12:00	39-3	18031	0.404	516.800	1.292	535.200	1.013	ND	ND	0.027	0.009	0.000
1/16/07 12:00	39-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/17/07 12:00	39-5	18033	0.257	524.000	0.890	535.200	0.646	ND	ND	0.019	0.005	0.000
1/18/07 12:00	39-6	18034	0.294	510.400	0.901	535.200	0.613	ND	ND	0.018	0.004	0.000
1/19/07 12:00	39-7	18035	0.229	510.400	0.855	535.200	0.584	ND	ND	0.019	0.005	0.000
1/20/07 12:00	39-8	18036	0.230	511.200	0.905	535.200	0.599	ND	ND	0.020	0.005	0.000
1/21/07 12:00	39-9	18037	0.313	510.400	0.763	535.200	0.619	ND	ND	0.014	0.004	0.000
1/22/07 12:00	39-10	18038	0.276	510.400	0.974	535.200	0.684	ND	ND	0.021	0.006	0.000
1/23/07 12:00	39-11	18039	0.215	510.400	0.879	535.200	0.649	ND	ND	0.020	0.006	0.000
1/24/07 12:00	39-12	18040	0.269	510.400	0.822	535.200	0.620	ND	ND	0.017	0.005	0.000
1/25/07 12:00	39-13	18041	0.151	516.000	0.552	535.200	0.404	ND	ND	0.012	0.004	0.000
1/26/07 12:00	39-14	18042	0.229	510.400	0.723	536.000	0.519	ND	ND	0.015	0.004	0.000
1/27/07 12:00	39-15	18043	0.282	520.000	0.728	535.200	0.558	ND	ND	0.013	0.004	0.000
1/28/07 12:00	39-16	18044	0.142	516.000	0.619	535.200	0.443	ND	ND	0.014	0.004	0.000
1/29/07 12:00	39-17	18045	0.208	510.400	0.737	535.200	0.521	ND	ND	0.016	0.004	0.000
1/30/07 12:00	39-18	18046	0.196	518.400	0.619	535.200	0.476	ND	ND	0.013	0.004	0.000
1/31/07 12:00	40-1	17920	0.118	516.000	0.438	536.000	0.331	ND	ND	0.010	0.003	0.000
2/1/07 12:00	40-2	17921	0.236	518.400	0.478	536.000	0.377	ND	ND	0.007	0.002	0.000
2/2/07 12:00	40-3	17922	0.447	518.400	1.167	535.200	0.963	ND	ND	0.022	0.007	0.000
2/3/07 12:00	40-4	17923	0.188	518.400	0.657	535.200	0.523	ND	ND	0.014	0.005	0.000
2/4/07 12:00	40-5	17924	0.157	513.600	0.527	535.200	0.369	ND	ND	0.011	0.003	0.000
2/5/07 12:00	40-6	17925	0.194	516.000	0.704	535.200	0.539	ND	ND	0.015	0.005	0.000
2/6/07 12:00	40-7	17926	0.141	520.800	0.537	536.000	0.360	ND	ND	0.012	0.003	0.000
2/7/07 12:00	40-8	17927	0.421	512.000	1.152	535.200	0.881	ND	ND	0.022	0.006	0.000
2/8/07 12:00	40-9	17928	0.225	517.600	0.585	535.200	0.437	ND	ND	0.011	0.003	0.000
2/9/07 12:00	40-10	17929	0.242	516.000	0.838	535.200	0.644	ND	ND	0.018	0.006	0.000
2/10/07 12:00	40-11	17930	0.119	517.600	0.465	536.000	0.304	ND	ND	0.010	0.003	0.000
2/11/07 12:00	40-12	17931	0.229	511.200	0.620	535.200	0.485	ND	ND	0.012	0.004	0.000
2/12/07 12:00	40-13	17931	0.229	511.200	0.620	535.200	0.485	ND	ND	0.012	0.004	0.000
2/13/07 12:00	40-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
2/14/07 12:00	41-1	18146	0.115	512.000	0.445	535.200	0.333	ND	ND	0.010	0.003	0.000
2/15/07 12:00	41-2	18147	0.111	520.800	0.451	535.200	0.319	ND	ND	0.010	0.003	0.000
2/16/07 12:00	41-3	18148	0.096	518.400	0.383	535.200	0.228	ND	ND	0.009	0.002	0.000
2/17/07 12:00	41-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
2/18/07 12:00	41-5	18149	0.125	510.400	0.466	535.200	0.305	ND	ND	0.010	0.003	0.000
2/19/07 12:00	41-6	18150	0.156	510.400	0.566	535.200	0.352	ND	ND	0.012	0.003	0.000
2/20/07 12:00	41-7	18151	0.157	524.800	0.663	535.200	0.527	ND	ND	0.015	0.005	0.000
2/21/07 12:00	41-8	18152	0.142	519.200	0.577	535.200	0.421	ND	ND	0.013	0.004	0.000
2/22/07 12:00	41-9	18153	0.132	520.800	0.442	535.200	0.330	ND	ND	0.009	0.003	0.000
2/23/07 12:00	41-10	18154	0.153	516.800	0.448	535.200	0.312	ND	ND	0.009	0.002	0.000
2/24/07 12:00	41-11	18155	0.119	519.200	0.451	535.200	0.270	ND	ND	0.010	0.002	0.000

Appendix 2. MBE spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
2/25/07 12:00	41-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
2/26/07 12:00	41-13	18156	0.090	520.000	0.395	535.200	0.278	ND	ND	0.009	0.003	0.000
2/27/07 12:00	41-14	18157	0.098	519.200	0.422	535.200	0.265	ND	ND	0.010	0.002	0.000
2/28/07 12:00	41-15	18158	0.097	520.000	0.374	535.200	0.261	ND	ND	0.008	0.002	0.000
3/1/07 12:00	41-16	18159	0.169	516.000	0.479	537.600	0.332	ND	ND	0.009	0.002	0.000
3/2/07 12:00	41-17	18160	0.139	518.400	0.434	535.200	0.306	ND	ND	0.009	0.002	0.000
3/3/07 12:00	42-1	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3/4/07 12:00	42-2	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3/5/07 12:00	42-3	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3/6/07 12:00	42-4	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3/7/07 12:00	42-5	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3/8/07 12:00	42-6	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3/9/07 12:00	42-7	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3/10/07 12:00	42-8	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3/11/07 12:00	42-9	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3/12/07 12:00	42-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3/13/07 12:00	42-11	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3/14/07 12:00	42-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/15/07 12:00	42-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/16/07 12:00	42-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/17/07 12:00	42-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/18/07 12:00	42-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/19/07 12:00	42-17	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/20/07 12:00	42-18	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/21/07 12:00	42-19	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/22/07 12:00	42-20	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/23/07 12:00	42-21	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/24/07 12:00	43-1	18181	0.161	524.800	0.907	535.200	0.790	ND	ND	0.022	0.009	0.000
3/25/07 12:00	43-2	18182	0.128	523.200	0.523	535.200	0.359	ND	ND	0.012	0.003	0.000
3/26/07 12:00	43-3	18183	0.117	520.800	0.356	536.000	0.240	ND	ND	0.007	0.002	0.000
3/27/07 12:00	43-4	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/28/07 12:00	43-5	18184	0.128	513.600	0.408	535.200	0.289	ND	ND	0.008	0.002	0.000
3/29/07 12:00	43-6	18185	0.146	524.800	0.546	535.200	0.337	ND	ND	0.012	0.003	0.000
3/30/07 12:00	43-7	18186	0.125	522.400	0.389	535.200	0.254	ND	ND	0.008	0.002	0.000
3/31/07 12:00	43-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/1/07 12:00	43-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/2/07 12:00	43-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/3/07 12:00	43-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/4/07 12:00	43-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/5/07 12:00	43-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/6/07 12:00	43-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A

Appendix 2. MBE spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
4/7/07 12:00	43-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/8/07 12:00	43-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/9/07 12:00	44-1	18187	0.117	511.200	0.000	535.200	0.000	ND	ND	-0.004	-0.002	0.000
4/10/07 12:00	44-2	18188	0.092	517.600	0.000	535.200	0.000	ND	ND	-0.003	-0.001	0.000
4/11/07 12:00	44-3	18189	0.104	521.600	0.000	535.200	0.000	ND	ND	-0.003	-0.001	0.000
4/12/07 12:00	44-4	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/13/07 12:00	44-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/14/07 12:00	44-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/15/07 12:00	44-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/16/07 12:00	44-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/17/07 12:00	44-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/18/07 12:00	44-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/19/07 12:00	44-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/20/07 12:00	44-12	18190	0.154	518.400	0.000	535.200	0.000	ND	ND	-0.005	-0.002	0.000
4/21/07 12:00	45-1	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/22/07 12:00	45-2	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/23/07 12:00	45-3	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/24/07 12:00	45-4	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/25/07 12:00	45-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/26/07 12:00	45-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/27/07 12:00	45-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A

Appendix 3. 2006 SESF Tracer Test: SE10 Spectrofluorophotometer Data

Max			*11.449*	*524.800*	*344.631*	*548.000*	*220.001*	*564.800*	*200.319*	*10.133*	*2.990*	*2.714*
Min			*0.098*	*510.400*	*4.728*	*535.200*	*0.638*	*555.200*	*0.304*	*0.000*	*0.000*	*0.000*
Count			*481*	*406*	*406*	*102*	*102*	*366*	*441*	*581*	*587*	*585*
Date Time	**Field Sample Number**	**Lab Sample Number**	**Meas. Baseline (MEAS)**	**AY73 Wavelen (MEAS)**	**AY73 Intens (MEAS)**	**AR87 Wavelen (MEAS)**	**AR87 Intens (MEAS)**	**AR92 Wavelen (MEAS)**	**AR92 Intens (MEAS)**	**AY73 PPB (CALC)**	**AR87 PPB (CALC)**	**AR92 PPB (CALC)**
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/26/06 16:00	1-2	11328	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/26/06 18:00	1-3	11329	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/26/06 20:00	1-4	11330	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/26/06 22:00	1-5	11331	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 0:00	1-6	11332	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 2:00	1-7	11333	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 4:00	1-8	11334	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 6:00	1-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/27/06 8:00	1-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/27/06 10:00	1-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/27/06 12:00	1-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/27/06 14:00	1-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/27/06 16:00	1-14	11335	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 18:00	1-15	11336	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 20:00	1-16	11337	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 22:00	1-17	11338	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/28/06 0:00	1-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/28/06 2:00	1-19	11339	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/28/06 4:00	1-20	11340	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/28/06 6:00	1-21	11341	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/28/06 8:00	1-22	11342	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/28/06 10:00	1-23	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/28/06 12:00	1-24	11343	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/28/06 16:00	2-1	11260	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/28/06 20:00	2-2	11261	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/29/06 0:00	2-3	11262	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/29/06 4:00	2-4	11263	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/29/06 8:00	2-5	11264	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/29/06 12:00	2-6	11265	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/29/06 16:00	2-7	11266	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/29/06 20:00	2-8	11267	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/30/06 0:00	2-9	11268	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/30/06 4:00	2-10	11269	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000

Appendix 3. 2006 SESF tracer test SE10 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/30/06 8:00	2-11	11270	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/30/06 12:00	2-12	11271	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/30/06 16:00	2-13	11272	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/30/06 20:00	2-14	11273	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 0:00	2-15	11274	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 4:00	2-16	11275	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 8:00	2-17	11276	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 12:00	3-1	11176	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 18:00	3-2	11177	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/1/06 0:00	3-3	11178	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/1/06 6:00	3-4	11179	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/1/06 12:00	3-5	11180	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/1/06 18:00	3-6	11181	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/2/06 0:00	3-7	11182	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/2/06 6:00	3-8	11183	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/2/06 12:00	3-9	11184	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/2/06 18:00	3-10	11185	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/3/06 0:00	3-11	11186	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/3/06 6:00	3-12	11187	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/3/06 12:00	3-13	11188	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/3/06 18:00	3-14	11189	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/4/06 0:00	3-15	11190	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/4/06 6:00	3-16	11191	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/4/06 12:00	4-1	11525	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/4/06 18:00	4-2	11526	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/5/06 0:00	4-3	11527	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/5/06 6:00	4-4	11528	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/5/06 12:00	4-5	11529	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/5/06 18:00	4-6	11530	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/6/06 0:00	4-7	11531	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/6/06 6:00	4-8	11532	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/6/06 12:00	4-9	11533	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/6/06 18:00	4-10	11534	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/7/06 0:00	4-11	11535	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/7/06 6:00	4-12	11536	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/7/06 12:00	4-13	11537	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/7/06 18:00	4-14	11538	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/8/06 0:00	4-15	11539	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/8/06 6:00	4-16	11540	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/8/06 12:00	4-17	11541	NR	ND	ND	ND	ND	NR	NR	0.000	0.000	N/A

Appendix 3. 2006 SESF tracer test SE10 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/8/06 18:00	5-1	11570	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/9/06 0:00	5-2	11571	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/9/06 6:00	5-3	11572	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/9/06 12:00	5-4	11573	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/9/06 18:00	5-5	11574	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/10/06 0:00	5-6	11575	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/10/06 6:00	5-7	11576	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/10/06 12:00	5-8	11577	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/10/06 18:00	5-9	11578	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/11/06 0:00	5-10	11579	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/11/06 6:00	5-11	11580	NR	ND	ND	ND	ND	NR	NR	0.000	0.000	N/A
2/11/06 12:00	6-1	11955	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/11/06 18:00	6-2	11956	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/12/06 0:00	6-3	11957	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/12/06 6:00	6-4	11958	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/12/06 12:00	6-5	11959	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/12/06 18:00	6-6	11960	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/13/06 0:00	6-7	11961	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/13/06 6:00	6-8	11962	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/13/06 12:00	6-9	11963	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/13/06 18:00	6-10	11964	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/14/06 0:00	6-11	11965	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/14/06 6:00	6-12	11966	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/14/06 12:00	6-13	11967	0.999	ND	ND	ND	ND	NR	1.370	0.000	0.000	0.005
2/14/06 18:00	6-14	11968	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/15/06 0:00	6-15	11969	0.999	ND	ND	ND	ND	NR	1.090	0.000	0.000	0.001
2/15/06 6:00	6-16	11970	0.999	ND	ND	ND	ND	NR	1.570	0.000	0.000	0.008
2/15/06 12:00	7-1	11826	0.999	ND	ND	ND	ND	ND	2.420	0.000	0.000	0.020
2/15/06 18:00	7-2	11827	0.999	ND	ND	ND	ND	ND	2.670	0.000	0.000	0.023
2/16/06 0:00	7-3	11828	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/16/06 6:00	7-4	11829	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/16/06 12:00	7-5	11830	0.999	ND	ND	ND	ND	NR	1.940	0.000	0.000	0.013
2/16/06 18:00	7-6	11831	0.999	ND	ND	ND	ND	NR	3.430	0.000	0.000	0.034
2/17/06 0:00	7-7	11832	0.999	ND	ND	ND	ND	NR	3.480	0.000	0.000	0.035
2/17/06 6:00	7-8	11833	0.999	ND	ND	ND	ND	NR	2.210	0.000	0.000	0.017
2/17/06 12:00	7-9	11834	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/17/06 18:00	7-10	11835	0.999	ND	ND	ND	ND	NR	1.310	0.000	0.000	0.004
2/18/06 0:00	7-11	11836	0.999	ND	ND	ND	ND	NR	3.390	0.000	0.000	0.033
2/18/06 6:00	7-12	11837	0.999	ND	ND	ND	ND	NR	1.450	0.000	0.000	0.006
2/18/06 12:00	8-1	11971	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000

Appendix 3. 2006 SESF tracer test SE10 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/18/06 18:00	8-2	11972	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/19/06 0:00	8-3	11973	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/19/06 6:00	8-4	11974	0.999	ND	ND	ND	ND	NR	1.670	0.000	0.000	0.009
2/19/06 12:00	8-5	11975	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/19/06 18:00	8-6	11976	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/20/06 0:00	8-7	11977	0.999	ND	ND	ND	ND	NR	1.460	0.000	0.000	0.006
2/20/06 6:00	8-8	11978	0.999	ND	ND	ND	ND	NR	1.280	0.000	0.000	0.004
2/20/06 12:00	8-9	11979	0.999	ND	ND	ND	ND	NR	1.750	0.000	0.000	0.011
2/20/06 18:00	8-10	11980	0.999	ND	ND	ND	ND	NR	1.700	0.000	0.000	0.010
2/21/06 0:00	8-11	11981	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/21/06 6:00	8-12	11982	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/21/06 12:00	8-13	11983	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/21/06 18:00	8-14	11984	0.999	ND	ND	ND	ND	NR	2.130	0.000	0.000	0.016
2/22/06 0:00	8-15	11985	0.999	ND	ND	ND	ND	NR	1.270	0.000	0.000	0.004
2/22/06 6:00	8-16	11986	0.999	ND	ND	ND	ND	NR	2.020	0.000	0.000	0.014
2/22/06 12:00	9-1	12296	0.999	ND	ND	ND	ND	NR	1.250	0.000	0.000	0.004
2/22/06 18:00	9-2	12297	0.999	ND	ND	ND	ND	NR	1.540	0.000	0.000	0.008
2/23/06 0:00	9-3	12298	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/23/06 6:00	9-4	12299	0.999	ND	ND	ND	ND	NR	2.020	0.000	0.000	0.014
2/23/06 12:00	9-5	12300	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/23/06 18:00	9-6	12301	0.999	ND	ND	ND	ND	NR	1.250	0.000	0.000	0.004
2/24/06 0:00	9-7	12302	0.999	ND	ND	ND	ND	NR	1.910	0.000	0.000	0.013
2/24/06 6:00	9-8	12303	0.999	ND	ND	ND	ND	NR	2.420	0.000	0.000	0.020
2/24/06 12:00	9-9	12304	0.999	ND	ND	ND	ND	NR	2.210	0.000	0.000	0.017
2/24/06 18:00	9-10	12305	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/25/06 0:00	9-11	12306	0.999	ND	ND	ND	ND	NR	1.630	0.000	0.000	0.009
2/25/06 6:00	9-12	12307	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/25/06 12:00	9-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/10/06 18:00	10-1	12471	0.999	ND	ND	ND	ND	NR	5.090	0.000	0.000	0.057
3/11/06 0:00	10-2	12472	0.999	ND	ND	ND	ND	NR	5.270	0.000	0.000	0.060
3/11/06 6:00	10-3	12473	0.999	ND	ND	ND	ND	NR	5.770	0.000	0.000	0.067
3/11/06 12:00	10-4	12474	0.999	ND	ND	ND	ND	NR	5.230	0.000	0.000	0.059
3/11/06 18:00	10-5	12475	0.999	ND	ND	ND	ND	NR	5.210	0.000	0.000	0.059
3/12/06 0:00	10-6	12476	0.999	ND	ND	ND	ND	NR	6.780	0.000	0.000	0.081
3/12/06 6:00	10-7	12477	0.999	ND	ND	ND	ND	NR	6.450	0.000	0.000	0.076
3/12/06 12:00	10-8	12478	0.999	ND	ND	ND	ND	NR	6.570	0.000	0.000	0.078
3/12/06 18:00	10-9	12479	0.999	ND	ND	ND	ND	NR	6.710	0.000	0.000	0.080
3/13/06 0:00	10-10	12480	0.999	ND	ND	ND	ND	NR	6.490	0.000	0.000	0.077
3/13/06 6:00	10-11	12481	0.999	ND	ND	ND	ND	NR	6.530	0.000	0.000	0.077
3/13/06 12:00	10-12	12482	0.999	ND	ND	ND	ND	NR	5.610	0.000	0.000	0.065

Appendix 3. 2006 SESF tracer test SE10 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/13/06 18:00	10-13	12483	0.999	ND	ND	ND	ND	NR	6.680	0.000	0.000	0.080
3/14/06 0:00	10-14	12484	0.999	ND	ND	ND	ND	NR	7.240	0.000	0.000	0.087
3/14/06 6:00	10-15	12485	0.999	ND	ND	ND	ND	NR	6.070	0.000	0.000	0.071
3/14/06 12:00	10-16	12486	0.999	ND	ND	ND	ND	NR	5.900	0.000	0.000	0.069
3/14/06 18:00	10-17	12487	0.999	ND	ND	ND	ND	NR	6.270	0.000	0.000	0.074
3/15/06 0:00	10-18	12488	0.999	ND	ND	ND	ND	NR	5.200	0.000	0.000	0.059
3/15/06 6:00	10-19	12489	0.999	ND	ND	ND	ND	NR	6.450	0.000	0.000	0.076
3/15/06 12:00	10-20	12490	0.999	ND	ND	ND	ND	NR	5.150	0.000	0.000	0.058
3/15/06 18:00	11-1	12721	0.999	ND	ND	ND	ND	NR	7.950	0.000	0.000	0.097
3/16/06 0:00	11-2	12722	0.999	ND	ND	ND	ND	NR	8.090	0.000	0.000	0.099
3/16/06 6:00	11-3	12723	0.999	ND	ND	ND	ND	NR	10.030	0.000	0.000	0.126
3/16/06 12:00	11-4	12724	0.999	ND	ND	ND	ND	NR	9.530	0.000	0.000	0.119
3/16/06 18:00	11-5	12725	0.999	ND	ND	ND	ND	NR	7.820	0.000	0.000	0.095
3/17/06 0:00	11-6	12726	0.999	ND	ND	ND	ND	NR	6.850	0.000	0.000	0.082
3/17/06 6:00	11-7	12727	0.999	ND	ND	ND	ND	NR	8.250	0.000	0.000	0.102
3/17/06 12:00	11-8	12728	0.999	ND	ND	ND	ND	NR	9.860	0.000	0.000	0.124
3/17/06 18:00	11-9	12729	0.999	ND	ND	ND	ND	NR	8.520	0.000	0.000	0.105
3/18/06 0:00	11-10	12730	0.999	NR	NR	ND	ND	NR	10.790	N/A	0.000	0.137
3/18/06 6:00	11-11	12731	0.999	ND	ND	ND	ND	NR	9.880	0.000	0.000	0.124
3/18/06 12:00	11-12	12732	0.999	NR	NR	ND	ND	NR	9.970	N/A	0.000	0.126
3/18/06 18:00	11-13	12733	0.999	ND	ND	ND	ND	NR	9.880	0.000	0.000	0.124
3/19/06 0:00	11-14	12734	0.999	NR	NR	ND	ND	NR	9.080	N/A	0.000	0.113
3/19/06 6:00	11-15	12735	0.999	NR	NR	ND	ND	NR	8.070	N/A	0.000	0.099
3/19/06 12:00	12-1	12709	0.999	ND	ND	ND	ND	NR	14.270	0.000	0.000	0.186
3/19/06 18:00	12-2	12710	0.999	ND	ND	ND	ND	NR	9.780	0.000	0.000	0.123
3/20/06 0:00	12-3	12711	0.999	ND	ND	ND	ND	NR	7.470	0.000	0.000	0.091
3/20/06 6:00	12-4	12712	0.999	ND	ND	ND	ND	NR	7.650	0.000	0.000	0.093
3/20/06 12:00	12-5	12713	0.999	ND	ND	ND	ND	NR	8.500	0.000	0.000	0.105
3/20/06 18:00	12-6	12714	0.999	ND	ND	ND	ND	NR	7.470	0.000	0.000	0.091
3/21/06 0:00	12-7	12715	0.999	ND	ND	ND	ND	NR	8.510	0.000	0.000	0.105
3/21/06 6:00	12-8	12716	0.999	ND	ND	ND	ND	NR	9.100	0.000	0.000	0.113
3/21/06 12:00	12-9	12717	0.999	ND	ND	ND	ND	NR	9.660	0.000	0.000	0.121
3/21/06 18:00	12-10	12718	0.999	ND	ND	ND	ND	NR	9.480	0.000	0.000	0.119
3/22/06 0: 00	12-11	12719	0.999	N R	N R	N D	N D	N R	8.440	N/A	0.000	0.104
3/22/06 6:00	12-12	12720	0.999	NR	NR	ND	ND	NR	7.500	N/A	0.000	0.091
3/22/06 12:00	13-1	12978	5.735	516.800	7.691	ND	ND	561.600	9.507	0.059	0.000	0.053
3/22/06 18:00	13-2	12979	6.288	511.200	10.215	ND	ND	560.000	10.694	0.118	0.000	0.062
3/23/06 0:00	13-3	12980	5.332	515.200	11.693	ND	ND	558.400	12.885	0.191	0.000	0.106
3/23/06 6:00	13-4	12981	0.933	518.400	5.015	ND	ND	560.000	8.267	0.122	0.000	0.103
3/23/06 12:00	13-5	12982	5.960	516.800	8.953	ND	ND	561.600	11.056	0.090	0.000	0.071

Appendix 3. 2006 SESF tracer test SE10 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/23/06 18:00	13-6	12983	0.948	513.600	5.349	ND	ND	560.000	8.403	0.132	0.000	0.104
3/24/06 0:00	13-7	12984	5.931	510.400	11.846	ND	ND	560.000	13.384	0.177	0.000	0.104
3/24/06 6:00	13-8	12985	0.829	515.200	5.518	ND	ND	560.000	8.349	0.141	0.000	0.105
3/24/06 12:00	13-9	12986	0.897	512.800	4.728	ND	ND	563.200	7.548	0.115	0.000	0.093
3/24/06 18:00	13-10	12987	1.010	513.600	6.083	ND	ND	559.200	9.468	0.152	0.000	0.118
3/25/06 0:00	13-11	12988	6.190	511.200	14.014	ND	ND	560.800	11.577	0.235	0.000	0.075
3/25/06 6:00	13-12	12989	1.117	512.800	7.137	ND	ND	560.800	7.088	0.181	0.000	0.084
3/25/06 12:00	14-1	13051	1.186	516.000	5.594	ND	ND	560.000	6.751	0.132	0.000	0.078
3/25/06 18:00	14-2	13052	1.150	516.000	5.358	ND	ND	560.800	9.752	0.126	0.000	0.120
3/26/06 0:00	14-3	13053	1.317	514.400	6.251	ND	ND	561.600	8.294	0.148	0.000	0.098
3/26/06 6:00	14-4	13054	1.313	514.400	7.294	ND	ND	560.000	8.062	0.179	0.000	0.094
3/26/06 12:00	14-5	13055	1.385	512.800	6.143	ND	ND	559.200	6.650	0.143	0.000	0.074
3/26/06 18:00	14-6	13056	1.251	515.200	6.032	ND	ND	561.600	7.239	0.143	0.000	0.084
3/27/06 0:00	14-7	13057	1.353	516.800	6.518	ND	ND	560.800	7.772	0.155	0.000	0.090
3/27/06 6:00	14-8	13058	1.143	514.400	7.661	ND	ND	560.800	9.160	0.196	0.000	0.112
3/27/06 12:00	14-9	13059	1.493	514.400	8.979	ND	ND	561.600	7.776	0.225	0.000	0.088
3/27/06 18:00	14-10	13060	1.232	516.000	8.511	ND	ND	560.800	7.040	0.218	0.000	0.081
3/28/06 0:00	14-11	13061	1.412	514.400	10.702	ND	ND	560.000	10.805	0.279	0.000	0.132
3/28/06 6:00	14-12	13062	1.292	515.200	10.453	ND	ND	561.600	10.257	0.275	0.000	0.126
3/28/06 12:00	15-1	12939	0.796	516.000	11.293	ND	ND	561.600	6.925	0.315	0.000	0.086
3/28/06 18:00	15-2	12940	0.785	516.800	14.049	ND	ND	560.000	6.738	0.398	0.000	0.083
3/29/06 0:00	15-3	12941	0.737	516.000	16.126	ND	ND	560.800	9.050	0.462	0.000	0.116
3/29/06 6:00	15-4	12942	5.456	516.800	19.986	ND	ND	560.800	10.182	0.436	0.000	0.066
3/29/06 12:00	15-5	12943	5.578	516.800	24.720	ND	ND	560.000	11.553	0.574	0.000	0.084
3/29/06 18:00	15-6	12944	0.868	516.800	23.734	ND	ND	559.200	8.955	0.686	0.000	0.113
3/30/06 0:00	15-7	12945	1.013	516.000	28.040	ND	ND	560.800	9.080	0.811	0.000	0.113
3/30/06 6:00	15-8	12946	0.731	516.800	31.821	ND	ND	560.800	8.462	0.933	0.000	0.108
3/30/06 12:00	15-9	12947	4.538	516.800	36.962	ND	ND	560.000	11.710	0.973	0.000	0.100
3/30/06 18:00	15-10	12948	2.393	517.600	40.086	ND	ND	560.000	9.732	1.131	0.000	0.103
3/31/06 0:00	15-11	12949	2.142	516.800	42.615	ND	ND	559.200	9.980	1.214	0.000	0.110
3/31/06 6:00	15-12	12950	4.997	516.000	50.556	ND	ND	560.800	13.410	1.367	0.000	0.118
3/31/06 12:00	15-13	12951	3.480	517.600	45.354	ND	ND	560.000	10.926	1.256	0.000	0.104
3/31/06 18:00	16-1	12965	1.100	516.800	45.391	ND	ND	559.200	9.318	1.329	0.000	0.115
4/1/06 0:00	16-2	12966a	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
4/1/06 6:00	16-3	12967a	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
4/1/06 12:00	16-4	12966	1.053	516.000	55.321	ND	ND	558.400	9.154	1.628	0.000	0.113
4/1/06 18:00	16-5	12967	0.799	516.800	59.583	ND	ND	560.000	8.639	1.764	0.000	0.110
4/2/06 0:00	16-6	12968	1.093	516.800	61.885	ND	ND	562.400	7.934	1.824	0.000	0.096
4/2/06 6:00	16-7	12969	0.957	517.600	63.897	ND	ND	560.000	9.600	1.888	0.000	0.121
4/2/06 12:00	16-8	12970	1.230	516.800	66.990	ND	ND	562.400	9.078	1.973	0.000	0.110

Appendix 3. 2006 SESF tracer test SE10 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/2/06 18:00	16-9	12971	1.041	516.000	72.163	ND	ND	560.800	9.714	2.134	0.000	0.121
4/3/06 0:00	16-10	12972	0.965	516.800	75.073	ND	ND	561.600	10.442	2.223	0.000	0.133
4/3/06 6:00	16-11	12973	1.020	516.800	68.011	ND	ND	560.800	9.382	2.010	0.000	0.117
4/3/06 12:00	16-12	12974	0.951	517.600	70.229	ND	ND	561.600	8.821	2.078	0.000	0.110
4/3/06 18:00	16-13	12975	0.889	516.800	76.825	ND	ND	560.800	10.075	2.278	0.000	0.129
4/4/06 0:00	16-14	12976	0.945	516.800	78.005	ND	ND	560.800	9.867	2.312	0.000	0.125
4/4/06 6:00	16-15	12977	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
4/4/06 12:00	17-1	13252	6.976	517.600	68.145	ND	ND	559.200	13.843	1.835	0.000	0.096
4/4/06 18:00	17-2	13253	2.808	517.600	95.297	ND	ND	561.600	14.291	2.775	0.000	0.161
4/5/06 0:00	17-3	13254	4.821	516.800	96.708	ND	ND	560.000	10.994	2.757	0.000	0.086
4/5/06 6:00	17-4	13255	7.561	516.800	98.809	ND	ND	561.600	12.566	2.737	0.000	0.070
4/5/06 12:00	17-5	13256	2.137	516.800	96.567	ND	ND	560.800	11.687	2.833	0.000	0.134
4/5/06 18:00	17-6	13257	1.369	518.400	95.165	ND	ND	559.200	9.401	2.814	0.000	0.112
4/6/06 0:00	17-7	13258	1.380	517.600	105.283	ND	ND	561.600	11.376	3.117	0.000	0.140
4/6/06 6:00	17-8	13259	1.186	516.800	108.342	ND	ND	560.800	10.049	3.215	0.000	0.124
4/6/06 12:00	17-9	13260	1.286	516.800	101.882	ND	ND	560.000	11.445	3.018	0.000	0.142
4/6/06 18:00	17-10	13261	4.315	518.400	108.992	ND	ND	561.600	10.627	3.140	0.000	0.088
4/7/06 0:00	17-11	13262	1.270	517.600	115.630	ND	ND	560.000	8.781	3.431	0.000	0.105
4/7/06 6:00	17-12	13263	1.137	517.600	118.333	ND	ND	560.800	8.881	3.516	0.000	0.108
4/7/06 12:00	18-1	13348	1.021	517.600	90.667	ND	ND	562.400	7.770	2.689	0.000	0.094
4/7/06 18:00	18-2	13349	0.999	518.400	95.940	ND	ND	560.800	11.320	2.848	0.000	0.144
4/8/06 0:00	18-3	13350	1.089	516.800	97.056	ND	ND	560.800	7.795	2.879	0.000	0.094
4/8/06 6:00	18-4	13351	1.151	516.000	67.900	ND	ND	560.800	10.267	2.002	0.000	0.128
4/8/06 12:00	18-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/8/06 18:00	18-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/9/06 0:00	18-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/9/06 6:00	18-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/9/06 12:00	18-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/9/06 18:00	18-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/10/06 0:00	18-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/10/06 6:00	18-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/10/06 12:00	18-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/10/06 18:00	18-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/11/06 0:00	18-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/11/06 6:00	18-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/14/06 12:00	19-1	13264	1.302	516.800	122.728	ND	ND	560.000	11.264	3.643	0.000	0.139
4/14/06 18:00	19-2	13265	1.334	518.400	183.446	ND	ND	560.800	11.160	5.463	0.000	0.138
4/15/06 0:00	19-3	13266	1.201	518.400	195.599	ND	ND	562.400	9.789	5.832	0.000	0.120
4/15/06 6:00	19-4	13267	1.411	517.600	202.626	ND	ND	560.800	10.270	6.036	0.000	0.124
4/15/06 12:00	19-5	13268	1.200	517.600	206.701	ND	ND	560.000	8.403	6.165	0.000	0.101

Appendix 3. 2006 SESF tracer test SE10 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/15/06 18:00	19-6	13269	1.238	518.400	221.571	ND	ND	560.000	9.782	6.610	0.000	0.120
4/16/06 0:00	19-7	13270	1.030	517.600	194.520	ND	ND	561.600	11.223	5.805	0.000	0.143
4/16/06 6:00	19-8	13271	1.127	517.600	196.078	ND	ND	559.200	10.290	5.849	0.000	0.128
4/16/06 12:00	19-9	13272	1.306	517.600	225.805	ND	ND	561.600	9.904	6.735	0.000	0.120
4/16/06 18:00	19-10	13273	1.109	518.400	228.085	ND	ND	560.000	9.658	6.809	0.000	0.120
4/17/06 0:00	19-11	13274	1.277	518.400	197.989	ND	ND	561.600	10.471	5.901	0.000	0.129
4/17/06 6:00	19-12	13275	1.161	517.600	217.204	ND	ND	560.000	10.877	6.481	0.000	0.136
4/17/06 12:00	19-13	13276	1.254	517.600	243.629	ND	ND	560.000	9.159	7.271	0.000	0.111
4/17/06 18:00	19-14	13277	1.751	518.400	259.944	ND	ND	558.400	9.976	7.746	0.000	0.115
4/18/06 0:00	19-15	13278	1.131	518.400	209.265	ND	ND	560.800	10.695	6.244	0.000	0.134
4/18/06 6:00	19-16	13279	1.175	518.400	236.229	ND	ND	560.800	9.429	7.052	0.000	0.116
4/18/06 18:00	20-1	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/19/06 0:00	20-2	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/19/06 6:00	20-3	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/19/06 12:00	20-4	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/19/06 18:00	20-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/20/06 0:00	20-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/20/06 6:00	20-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/20/06 12:00	20-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/20/06 18:00	20-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/21/06 0:00	20-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/21/06 6:00	20-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/21/06 12:00	21-1	13352	1.138	517.600	232.264	ND	ND	556.800	9.378	6.934	0.000	0.115
4/21/06 18:00	21-2	13353	1.004	516.800	262.763	ND	ND	560.800	8.337	7.853	0.000	0.103
4/22/06 0:00	21-3	13354	0.975	517.600	255.327	ND	ND	560.000	9.420	7.631	0.000	0.118
4/22/06 6:00	21-4	13355	1.023	517.600	260.227	ND	ND	560.800	9.637	7.776	0.000	0.121
4/22/06 12:00	21-5	13356	1.011	517.600	253.032	ND	ND	560.800	10.221	7.561	0.000	0.129
4/22/06 18:00	21-6	13357	0.937	517.600	248.257	ND	ND	560.800	10.985	7.420	0.000	0.141
4/23/06 0:00	21-7	13358	0.960	517.600	235.421	ND	ND	560.000	9.802	7.034	0.000	0.124
4/23/06 6:00	21-8	13359	0.911	517.600	245.863	ND	ND	561.600	9.513	7.349	0.000	0.120
4/23/06 12:00	21-9	13360	1.135	518.400	258.226	ND	ND	561.600	9.906	7.713	0.000	0.123
4/23/06 18:00	21-10	13361	1.038	518.400	265.618	ND	ND	560.000	11.470	7.937	0.000	0.146
4/24/06 0:00	21-11	13362	1.161	517.600	210.135	ND	ND	560.800	11.331	6.269	0.000	0.142
4/24/06 6:00	21-12	13363	1.034	516.800	256.863	ND	ND	560.000	9.893	7.675	0.000	0.124
4/24/06 12:00	21-13	13364	1.218	517.600	269.529	ND	ND	561.600	9.742	8.049	0.000	0.119
4/24/06 18:00	21-14	13365	1.056	517.600	246.147	ND	ND	560.800	11.124	7.353	0.000	0.141
4/25/06 0:00	21-15	13366	1.154	517.600	234.154	ND	ND	560.800	11.222	6.990	0.000	0.141
4/25/06 6:00	21-16	13367	1.110	517.600	268.851	ND	ND	562.400	9.910	8.032	0.000	0.123
4/25/06 12:00	22-1	13733	1.324	518.400	223.978	ND	ND	559.200	11.896	6.680	0.000	0.148
4/25/06 18:00	22-2	13734	1.405	518.400	199.617	ND	ND	560.000	15.113	5.946	0.000	0.192

Appendix 3. 2006 SESF tracer test SE10 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/26/06 0:00	22-3	13735	1.411	518.400	241.361	ND	ND	563.200	9.711	7.199	0.000	0.116
4/26/06 6:00	22-4	13736	1.123	518.400	241.060	ND	ND	558.400	8.842	7.198	0.000	0.108
4/26/06 12:00	22-5	13737	1.050	518.400	253.432	ND	ND	560.000	10.100	7.571	0.000	0.127
4/26/06 18:00	22-6	13738	1.314	517.600	237.759	ND	ND	560.800	10.467	7.093	0.000	0.128
4/27/06 0:00	22-7	13739	1.003	518.400	229.514	ND	ND	560.000	8.094	6.855	0.000	0.099
4/27/06 6:00	22-8	13740	1.266	518.400	233.128	ND	ND	558.400	9.959	6.956	0.000	0.122
4/27/06 12:00	22-9	13741	1.287	517.600	203.707	ND	ND	558.400	9.743	6.073	0.000	0.118
4/27/06 18:00	22-10	13742	1.390	517.600	211.104	ND	ND	560.000	10.685	6.291	0.000	0.130
4/28/06 0:00	22-11	13743	1.290	518.400	202.756	ND	ND	561.600	9.142	6.044	0.000	0.110
4/28/06 6:00	22-12	13744	1.019	518.400	232.880	ND	ND	558.400	9.312	6.956	0.000	0.116
4/28/06 12:00	22-13	13745	1.254	518.400	234.131	ND	ND	560.800	9.970	6.986	0.000	0.122
4/28/06 18:00	23-1	13773	0.859	517.600	93.971	ND	ND	560.800	9.213	2.793	0.000	0.117
4/29/06 0:00	23-2	13774	0.756	518.400	115.613	ND	ND	562.400	9.006	3.446	0.000	0.116
4/29/06 6:00	23-3	13775	0.743	518.400	157.426	ND	ND	560.000	8.370	4.700	0.000	0.107
4/29/06 12:00	23-4	13776	0.810	518.400	205.727	ND	ND	560.800	9.615	6.148	0.000	0.123
4/29/06 18:00	23-5	13777	0.715	517.600	188.003	ND	ND	561.600	9.167	5.619	0.000	0.118
4/30/06 0:00	23-6	13778	0.932	518.400	157.102	ND	ND	559.200	10.028	4.685	0.000	0.127
4/30/06 6:00	23-7	13779	0.676	518.400	200.622	ND	ND	560.800	9.124	5.998	0.000	0.118
4/30/06 12:00	23-8	13780	0.790	518.400	199.439	ND	ND	560.000	9.161	5.959	0.000	0.117
4/30/06 18:00	23-9	13781	0.878	518.400	194.572	ND	ND	560.000	9.001	5.811	0.000	0.114
5/1/06 0:00	23-10	13782	0.938	516.800	88.458	ND	ND	559.200	8.790	2.626	0.000	0.110
5/1/06 6:00	23-11	13783	0.774	517.600	97.250	ND	ND	560.000	8.721	2.894	0.000	0.111
5/1/06 12:00	23-12	13784	0.900	518.400	204.542	ND	ND	557.600	9.150	6.109	0.000	0.116
5/1/06 18:00	23-13	13785	0.822	518.400	191.993	ND	ND	560.000	8.629	5.735	0.000	0.109
5/2/06 0:00	23-14	13786	0.822	517.600	102.502	ND	ND	561.600	8.374	3.050	0.000	0.106
5/2/06 6:00	23-15	13787	0.937	518.400	187.957	ND	ND	559.200	8.764	5.611	0.000	0.110
5/2/06 12:00	24-1	13858	0.830	518.400	215.271	ND	ND	560.800	11.375	6.433	0.000	0.148
5/2/06 18:00	24-2	13859	1.157	517.600	191.818	ND	ND	560.800	12.117	5.720	0.000	0.153
5/3/06 0:00	24-3	13860	0.823	518.400	116.755	ND	ND	561.600	9.029	3.478	0.000	0.115
5/3/06 6:00	24-4	13861	1.015	518.400	170.810	ND	ND	560.000	9.056	5.094	0.000	0.113
5/3/06 12:00	24-5	13862	4.889	517.600	234.922	ND	ND	557.600	12.320	6.901	0.000	0.104
5/3/06 18:00	24-6	13863	0.921	517.600	218.541	ND	ND	560.000	10.894	6.529	0.000	0.140
5/4/06 0:00	24-7	13864	1.145	517.600	171.220	ND	ND	559.200	10.029	5.102	0.000	0.124
5/4/06 6:00	24-8	13865	7.140	518.400	225.192	ND	ND	556.800	12.688	6.542	0.000	0.078
5/4/06 12:00	24-9	13866	2.947	517.600	264.103	ND	ND	558.400	10.635	7.835	0.000	0.108
5/4/06 18:00	24-10	13867	6.751	517.600	249.786	ND	ND	560.000	13.488	7.291	0.000	0.094
5/5/06 0:00	24-11	13868	5.354	516.800	238.892	ND	ND	556.800	12.319	7.006	0.000	0.098
5/5/06 6:00	24-12	13869	5.365	517.600	293.265	ND	ND	558.400	12.087	8.637	0.000	0.094
5/5/06 12:00	25-1	13923	1.229	518.400	259.541	ND	ND	560.800	9.535	7.749	0.000	0.116
5/5/06 18:00	25-2	13924	1.406	519.200	188.818	ND	ND	560.000	10.233	5.622	0.000	0.124

Appendix 3. 2006 SESF tracer test SE10 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/6/06 0:00	25-3	13925	1.214	517.600	254.047	ND	ND	560.800	11.382	7.585	0.000	0.142
5/6/06 6:00	25-4	13926	1.106	517.600	287.703	ND	ND	560.800	10.271	8.598	0.000	0.128
5/6/06 12:00	25-5	13927	1.252	517.600	280.469	ND	ND	560.000	9.895	8.377	0.000	0.121
5/6/06 18:00	25-6	13928	1.125	518.400	242.787	ND	ND	556.800	9.918	7.250	0.000	0.123
5/7/06 0:00	25-7	13929	1.120	518.400	272.220	ND	ND	562.400	10.649	8.133	0.000	0.133
5/7/06 6:00	25-8	13930	1.351	517.600	282.020	ND	ND	560.000	10.436	8.420	0.000	0.127
5/7/06 12:00	25-9	13931	1.255	516.800	279.078	ND	ND	557.600	10.264	8.335	0.000	0.126
5/7/06 18:00	25-10	13932	1.109	517.600	246.126	ND	ND	559.200	9.983	7.351	0.000	0.124
5/8/06 0:00	25-11	13933	1.241	518.400	265.520	ND	ND	560.000	9.481	7.928	0.000	0.115
5/8/06 6:00	25-12	13934	1.260	518.400	274.160	ND	ND	560.800	10.352	8.187	0.000	0.127
5/8/06 12:00	25-13	13935	1.306	517.600	273.899	ND	ND	560.800	10.488	8.178	0.000	0.129
5/8/06 18:00	25-14	13936	1.335	517.600	261.187	ND	ND	560.800	9.942	7.796	0.000	0.120
5/9/06 0:00	25-15	13937	1.126	517.600	283.422	ND	ND	560.000	9.868	8.469	0.000	0.122
5/9/06 6:00	25-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/9/06 12:00	26-1	14289	8.266	519.200	232.221	ND	ND	555.200	25.540	6.719	0.000	0.242
5/9/06 18:00	26-2	14290	6.222	518.400	184.311	ND	ND	560.000	14.650	5.343	0.000	0.118
5/10/06 0:00	26-3	14291	1.897	519.200	155.875	ND	ND	559.200	11.622	4.619	0.000	0.136
5/10/06 6:00	26-4	14292	6.482	519.200	267.640	ND	ND	555.200	12.240	7.835	0.000	0.081
5/10/06 12:00	26-5	14293	6.012	519.200	305.948	ND	ND	560.800	11.409	8.998	0.000	0.076
5/10/06 18:00	26-6	14294	8.628	519.200	332.485	ND	ND	555.200	15.439	9.716	0.000	0.095
5/11/06 0:00	26-7	14295	5.933	518.400	335.286	ND	ND	557.600	12.281	9.881	0.000	0.089
5/11/06 6:00	26-8	14296	6.879	519.200	344.631	ND	ND	555.200	12.553	10.133	0.000	0.079
5/11/06 12:00	26-9	14297	2.491	519.200	326.002	ND	ND	560.000	12.138	9.705	0.000	0.135
5/11/06 18:00	26-10	14298	7.120	519.200	319.023	ND	ND	556.000	12.298	9.357	0.000	0.072
5/12/06 0:00	26-11	14299	3.277	518.400	317.741	ND	ND	555.200	11.717	9.434	0.000	0.118
5/12/06 6:00	26-12	14300	1.526	518.400	315.862	ND	ND	559.200	11.965	9.430	0.000	0.146
5/12/06 12:00	26-13	14301	1.481	518.400	297.429	ND	ND	559.200	10.037	8.878	0.000	0.120
5/12/06 18:00	26-14	14302	1.461	519.200	282.095	ND	ND	561.600	10.238	8.419	0.000	0.123
5/13/06 0:00	26-15	14303	7.215	519.200	303.179	ND	ND	555.200	12.845	8.879	0.000	0.079
5/13/06 6:00	26-16	14304	1.594	519.200	309.406	ND	ND	555.200	10.571	9.234	0.000	0.126
5/13/06 12:00	27-1	14305	1.995	518.400	226.485	ND	ND	555.200	12.202	6.735	0.000	0.143
5/13/06 18:00	27-2	14306	1.432	517.600	267.331	ND	ND	561.600	9.504	7.977	0.000	0.113
5/14/06 0:00	27-3	14307	1.417	518.400	259.100	ND	ND	558.400	11.224	7.730	0.000	0.137
5/14/06 6:00	27-4	14308	1.234	518.400	259.094	ND	ND	560.800	8.875	7.736	0.000	0.107
5/14/06 12:00	27-5	14309	1.373	517.600	237.240	ND	ND	561.600	9.184	7.076	0.000	0.109
5/14/06 18:00	27-6	14310	1.497	517.600	285.732	ND	ND	555.200	10.059	8.527	0.000	0.120
5/15/06 0:00	27-7	14311	1.494	517.600	281.833	ND	ND	556.800	10.484	8.410	0.000	0.126
5/15/06 6:00	27-8	14312	1.659	518.400	290.181	ND	ND	558.400	10.930	8.656	0.000	0.130
5/15/06 12:00	27-9	14313	1.333	518.400	270.532	ND	ND	555.200	8.280	8.076	0.000	0.097
5/15/06 18:00	27-10	14314	1.449	517.600	269.792	ND	ND	556.800	9.217	8.050	0.000	0.109

Appendix 3. 2006 SESF tracer test SE10 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/16/06 0:00	27-11	14315	1.345	517.600	257.977	ND	ND	558.400	8.934	7.699	0.000	0.106
5/16/06 6:00	27-12	14316	1.732	517.600	279.788	ND	ND	560.800	11.372	8.342	0.000	0.135
5/16/06 12:00	27-13	14317	1.470	518.400	246.553	ND	ND	560.800	10.439	7.352	0.000	0.126
5/16/06 18:00	27-14	14318	1.520	517.600	258.026	ND	ND	560.800	9.942	7.695	0.000	0.118
5/17/06 0:00	27-15	14319	1.504	517.600	264.301	ND	ND	556.800	19.055	7.884	0.000	0.246
5/17/06 6:00	27-16	14320	1.479	517.600	243.550	ND	ND	560.000	10.603	7.262	0.000	0.128
5/17/06 12:00	27-17	14321	1.350	517.600	258.922	ND	ND	555.200	8.329	7.727	0.000	0.098
5/17/06 18:00	27-18	14322	1.858	518.400	275.076	ND	ND	555.200	8.670	8.197	0.000	0.095
5/18/06 0:00	27-19	14323	1.528	517.600	265.109	ND	ND	560.000	8.998	7.907	0.000	0.105
5/18/06 6:00	27-20	14324	1.555	517.600	286.233	ND	ND	556.000	10.042	8.540	0.000	0.119
5/18/06 12:00	28-1	14269	1.885	518.400	203.110	ND	ND	557.600	10.564	6.037	0.000	0.122
5/18/06 18:00	28-2	14270	3.569	517.600	202.271	ND	ND	558.400	8.299	5.961	0.000	0.066
5/19/06 0:00	28-3	14271	2.885	518.400	190.749	ND	ND	560.000	7.918	5.636	0.000	0.070
5/19/06 6:00	28-4	14272	1.305	518.400	196.938	ND	ND	555.200	7.942	5.869	0.000	0.093
5/19/06 12:00	28-5	14273	1.251	518.400	191.879	ND	ND	560.800	7.858	5.719	0.000	0.092
5/19/06 18:00	28-6	14274	1.326	518.400	216.391	ND	ND	560.000	8.483	6.452	0.000	0.100
5/20/06 0:00	28-7	14275	4.033	518.400	202.533	ND	ND	555.200	9.343	5.955	0.000	0.074
5/20/06 6:00	28-8	14276	5.682	517.600	197.485	ND	ND	560.800	8.654	5.754	0.000	0.042
5/20/06 12:00	28-9	14277	3.465	518.400	194.881	ND	ND	560.000	9.258	5.742	0.000	0.081
5/20/06 18:00	28-10	14278	3.486	518.400	187.577	ND	ND	556.800	7.456	5.523	0.000	0.056
5/21/06 0:00	28-11	14279	1.283	518.400	200.746	ND	ND	559.200	6.360	5.984	0.000	0.071
5/21/06 6:00	28-12	14280	1.227	518.400	205.850	ND	ND	560.000	8.398	6.139	0.000	0.100
5/21/06 12:00	28-13	14281	4.796	518.400	201.229	ND	ND	560.800	9.185	5.893	0.000	0.061
5/21/06 18:00	28-14	14282	1.734	518.400	208.297	ND	ND	555.200	10.114	6.197	0.000	0.117
5/22/06 0:00	28-15	14283	1.502	518.400	181.110	ND	ND	557.600	7.998	5.388	0.000	0.091
5/22/06 6:00	28-16	14284	1.345	518.400	181.001	ND	ND	558.400	6.915	5.390	0.000	0.078
5/22/06 12:00	28-17	14285	1.556	518.400	177.507	ND	ND	560.800	7.969	5.279	0.000	0.090
5/22/06 18:00	28-18	14286	1.372	518.400	221.235	ND	ND	558.400	8.273	6.596	0.000	0.097
5/23/06 0:00	28-19	14287	1.599	518.400	207.926	ND	ND	555.200	8.903	6.190	0.000	0.102
5/23/06 6:00	28-20	14288	1.395	518.400	206.760	ND	ND	555.200	8.229	6.161	0.000	0.096
5/23/06 12:00	29-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/23/06 18:00	29-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/24/06 0:00	29-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/24/06 6:00	29-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/24/06 12:00	29-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/24/06 18:00	29-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/25/06 0:00	29-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/25/06 6:00	29-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/25/06 12:00	29-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/25/06 18:00	29-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 3. 2006 SESF tracer test SE10 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/26/06 0:00	29-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/26/06 6:00	29-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/26/06 12:00	30-1	15385	4.947	524.800	75.028	547.200	156.041	555.200	142.279	2.102	2.115	1.923
5/26/06 18:00	30-2	15386	3.663	524.800	72.549	547.200	146.504	555.200	132.645	2.067	2.000	1.806
5/27/06 0:00	30-3	15387	3.635	524.800	86.479	547.200	174.664	555.200	157.062	2.485	2.394	2.148
5/27/06 6:00	30-4	15388	4.249	524.800	80.758	547.200	162.977	555.200	147.648	2.295	2.222	2.008
5/27/06 12:00	30-5	15389	4.055	524.800	75.766	547.200	152.504	555.200	137.445	2.151	2.078	1.867
5/27/06 18:00	30-6	15390	6.453	524.800	105.227	547.200	220.001	555.200	200.319	2.963	2.990	2.714
5/28/06 0:00	30-7	15391	3.519	524.800	82.518	547.200	169.512	555.200	152.758	2.370	2.324	2.089
5/28/06 6:00	30-8	15392	3.709	524.800	82.585	547.200	163.758	555.200	147.891	2.366	2.241	2.019
5/28/06 12:00	30-9	15393	3.735	524.800	78.062	547.200	155.337	555.200	140.231	2.230	2.122	1.911
5/28/06 18:00	30-10	15394	3.638	524.800	80.072	547.200	158.847	555.200	143.381	2.293	2.173	1.956
5/29/06 0:00	30-11	15395	3.653	524.800	83.354	547.200	170.853	555.200	154.885	2.391	2.341	2.117
5/29/06 6:00	30-12	15396	4.804	524.800	77.508	547.200	160.137	555.200	145.169	2.181	2.175	1.965
5/29/06 12:00	30-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/29/06 18:00	30-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/30/06 0:00	30-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/30/06 6:00	30-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/30/06 12:00	31-1	15357	3.804	524.800	70.123	547.200	148.525	555.200	135.797	1.990	2.026	1.848
5/30/06 18:00	31-2	15358	3.894	524.800	79.015	547.200	163.818	555.200	148.576	2.254	2.239	2.026
5/31/06 0:00	31-3	15359	3.509	524.800	75.907	547.200	157.511	555.200	141.906	2.172	2.156	1.938
5/31/06 6:00	31-4	15360	3.181	524.800	82.516	546.400	164.642	555.200	148.325	2.380	2.260	2.032
5/31/06 12:00	31-5	15361	3.165	524.800	79.522	547.200	160.758	555.200	144.390	2.291	2.206	1.977
5/31/06 18:00	31-6	15362	3.080	524.800	79.102	547.200	158.173	555.200	142.510	2.281	2.171	1.952
6/1/06 0:00	31-7	15363	2.716	524.800	77.365	547.200	160.498	555.200	144.538	2.239	2.209	1.986
6/1/06 6:00	31-8	15364	2.798	524.800	83.293	547.200	172.996	555.200	156.893	2.415	2.383	2.157
6/1/06 12:00	31-9	15365	2.673	524.800	78.881	546.400	158.106	555.200	142.628	2.286	2.176	1.959
6/1/06 18:00	31-10	15366	3.051	524.800	75.613	548.000	164.599	555.200	152.820	2.177	2.262	2.097
6/2/06 0:00	31-11	15367	3.410	524.800	75.759	548.000	162.003	555.200	149.045	2.170	2.220	2.039
6/2/06 6:00	31-12	15368	2.748	524.800	79.556	548.000	167.639	555.200	153.570	2.304	2.308	2.112
6/2/06 12:00	31-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/2/06 18:00	31-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/3/06 0:00	31-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/3/06 6:00	31-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/3/06 12:00	32-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/3/06 18:00	32-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/4/06 0:00	32-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/4/06 6:00	32-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/4/06 12:00	32-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/4/06 18:00	32-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 3. 2006 SESF tracer test SE10 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
6/5/06 0:00	32-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/5/06 6:00	32-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/5/06 12:00	32-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/5/06 18:00	32-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/6/06 0:00	32-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/6/06 6:00	32-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/6/06 12:00	31a-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/6/06 18:00	31a-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/7/06 0:00	31a-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/7/06 6:00	31a-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/7/06 12:00	31a-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/7/06 18:00	31a-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/8/06 0:00	31a-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/8/06 6:00	31a-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/8/06 12:00	31a-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/8/06 18:00	31a-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/9/06 0:00	31a-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/9/06 12:00	32a-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/9/06 18:00	32a-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/10/06 0:00	32a-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/10/06 6:00	32a-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/10/06 12:00	32a-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/10/06 18:00	32a-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/11/06 0:00	32a-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/11/06 6:00	32a-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/11/06 12:00	32a-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/11/06 18:00	32a-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/12/06 0:00	32a-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/12/06 6:00	32a-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/12/06 12:00	32a-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/12/06 18:00	32a-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/13/06 0:00	32a-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/13/06 6:00	32a-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/13/06 12:00	32a-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/13/06 18:00	32a-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/14/06 0:00	32a-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/14/06 6:00	32a-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/14/06 12:00	32a-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/14/06 18:00	33-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/15/06 0:00	33-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 3. 2006 SESF tracer test SE10 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
6/15/06 6:00	33-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/15/06 12:00	33-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/15/06 18:00	33-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/16/06 0:00	33-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/16/06 6:00	33-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/16/06 12:00	34-1	15433	3.330	524.800	65.871	548.000	137.573	555.200	125.128	1.876	1.879	1.705
6/16/06 18:00	34-2	15434	4.089	524.800	73.957	547.200	153.971	555.200	139.562	2.096	2.098	1.897
6/17/06 0:00	34-3	15435	4.736	524.800	74.147	547.200	154.468	555.200	139.703	2.082	2.096	1.890
6/17/06 6:00	34-4	15436	3.479	524.800	74.636	547.200	156.835	555.200	141.413	2.135	2.147	1.931
6/17/06 12:00	34-5	15437	4.008	524.800	66.789	547.200	136.610	555.200	122.978	1.883	1.856	1.666
6/17/06 18:00	34-6	15438	4.209	524.800	67.603	547.200	138.377	555.200	125.016	1.902	1.878	1.691
6/18/06 0:00	34-7	15439	2.868	524.800	65.760	547.200	133.298	555.200	120.626	1.887	1.826	1.649
6/18/06 6:00	34-8	15440	2.870	524.800	65.433	547.200	138.879	555.200	125.616	1.877	1.904	1.718
6/18/06 12:00	34-9	15441	3.609	524.800	68.206	547.200	140.709	555.200	127.584	1.938	1.919	1.736
6/18/06 18:00	34-10	15442	3.348	524.800	65.671	548.000	133.426	555.200	121.162	1.870	1.821	1.649
6/19/06 0:00	34-11	15443	3.360	524.800	64.961	547.200	134.396	555.200	121.885	1.848	1.835	1.659
6/19/06 6:00	34-12	15444	3.094	524.800	63.982	547.200	132.771	555.200	120.849	1.827	1.815	1.649
6/19/06 12:00	34-13	15445	2.195	524.800	63.767	547.200	129.680	555.200	116.936	1.847	1.785	1.606
6/19/06 18:00	34-14	15446	2.663	524.800	68.326	547.200	138.848	555.200	125.412	1.970	1.907	1.718
6/20/06 0:00	34-15	15447	2.491	524.800	63.466	547.200	131.579	555.200	119.839	1.829	1.807	1.643
6/20/06 6:00	34-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/20/06 12:00	34-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/20/06 18:00	35-1	15085	3.346	524.800	73.653	ND	ND	555.200	135.811	2.109	0.000	1.855
6/21/06 0:00	35-2	15086	5.520	524.800	85.759	ND	ND	555.200	157.503	2.407	0.000	2.128
6/21/06 6:00	35-3	15087	3.411	524.800	81.070	ND	ND	555.200	150.330	2.330	0.000	2.057
6/21/06 12:00	35-4	15088	4.343	524.800	84.392	ND	ND	555.200	154.122	2.401	0.000	2.097
6/21/06 18:00	35-5	15090	3.972	524.800	86.358	546.400	173.719	555.200	155.848	2.472	2.376	2.126
6/22/06 0:00	35-6	15091	4.152	524.800	81.221	547.200	165.997	555.200	149.245	2.312	2.266	2.031
6/22/06 6:00	35-7	15092	3.563	524.800	78.609	547.200	162.201	555.200	145.682	2.251	2.221	1.990
6/22/06 12:00	35-8	15093	3.625	524.800	79.151	547.200	165.882	555.200	150.496	2.266	2.272	2.056
6/22/06 18:00	35-9	15094	3.830	524.800	79.251	547.200	163.952	555.200	148.934	2.263	2.242	2.031
6/23/06 0:00	35-10	15094	3.830	524.800	79.251	547.200	163.952	555.200	148.934	2.263	2.242	2.031
6/23/06 6:00	35-11	15095	3.241	524.800	80.211	ND	ND	555.200	146.488	2.309	0.000	2.005
6/23/06 12:00	36-1	14947	4.019	524.800	74.668	ND	ND	555.200	137.492	2.119	0.000	1.869
6/24/06 0:00	36-2	14948	5.758	524.800	79.364	ND	ND	555.200	140.244	2.208	0.000	1.883
6/24/06 12:00	36-3	14949	6.790	524.800	71.345	ND	ND	555.200	130.565	1.937	0.000	1.733
6/25/06 0:00	36-4	14950	3.931	524.800	71.957	ND	ND	555.200	133.767	2.041	0.000	1.818
6/25/06 12:00	36-5	14951	6.490	524.800	80.072	ND	ND	555.200	144.704	2.207	0.000	1.935
6/26/06 0:00	36-6	14952	5.802	524.800	65.457	ND	ND	555.200	125.090	1.790	0.000	1.670
6/26/06 12:00	36-7	14953	6.103	524.800	73.078	ND	ND	555.200	134.541	2.009	0.000	1.798

Appendix 3. 2006 SESF tracer test SE10 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
6/27/06 0:00	36-8	14954	5.570	524.800	75.077	ND	ND	555.200	139.626	2.085	0.000	1.877
6/27/06 12:00	37-1	14955	8.650	524.800	72.735	ND	ND	555.200	125.256	1.923	0.000	1.632
6/28/06 0:00	37-2	14956	11.199	524.800	116.704	ND	ND	555.200	199.942	3.165	0.000	2.642
6/28/06 12:00	37-3	14957	7.683	524.800	71.645	ND	ND	555.200	130.691	1.919	0.000	1.722
6/29/06 0:00	37-4	14958	6.342	524.800	60.968	ND	ND	555.200	113.151	1.639	0.000	1.495
6/29/06 12:00	37-5	14959	8.307	524.800	68.127	ND	ND	555.200	125.216	1.795	0.000	1.637
6/30/06 0:00	37-6	14960	7.639	524.800	73.339	ND	ND	555.200	137.253	1.971	0.000	1.815
6/30/06 12:00	37-7	14961	4.690	524.800	56.579	ND	ND	555.200	102.346	1.557	0.000	1.367
7/1/06 0:00	37-8	14962	5.930	524.800	71.846	ND	ND	555.200	134.319	1.977	0.000	1.797
7/1/06 12:00	37-9	15052	3.236	524.800	75.941	547.200	162.556	555.200	148.601	2.181	2.230	2.035
7/2/06 0:00	37-10	15053	6.464	524.800	77.767	547.200	160.102	555.200	146.573	2.139	2.151	1.962
7/2/06 12:00	37-11	15054	3.128	524.800	72.831	547.200	152.843	555.200	139.041	2.091	2.096	1.903
7/3/06 0:00	37-12	15055	3.430	524.800	69.116	547.200	143.611	555.200	130.819	1.971	1.963	1.783
7/3/06 12:00	37-13	15056	4.129	524.800	52.691	547.200	108.659	555.200	99.386	1.457	1.463	1.334
7/4/06 0:00	37-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/4/06 12:00	37-15	17446	0.103	512.800	5.615	ND	ND	556.000	0.304	0.165	0.000	0.003
7/5/06 0:00	37-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/5/06 12:00	37-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/6/06 0:00	37-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/6/06 12:00	37-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/7/06 0:00	37-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/7/06 12:00	38-1	17764	1.414	512.800	54.386	ND	ND	555.200	2.058	1.589	0.000	0.009
7/8/06 0:00	38-2	17765	1.000	512.800	56.136	ND	ND	564.800	1.537	1.654	0.000	0.008
7/8/06 12:00	38-3	17766	1.141	513.600	52.338	ND	ND	564.800	1.485	1.536	0.000	0.005
7/9/06 0:00	38-4	17767	0.844	512.800	45.465	ND	ND	556.000	1.830	1.339	0.000	0.014
7/9/06 12:00	38-5	17768	0.953	512.800	48.333	ND	ND	564.800	1.233	1.421	0.000	0.004
7/10/06 0:00	38-6	17769	0.908	512.800	45.862	ND	ND	564.800	1.307	1.349	0.000	0.006
7/10/06 12:00	38-7	17770	0.489	512.800	40.581	ND	ND	556.000	1.262	1.203	0.000	0.011
7/11/06 0:00	38-8	17771	0.776	512.800	37.974	ND	ND	564.800	1.024	1.116	0.000	0.003
7/11/06 12:00	38-9	17772	0.757	512.800	32.253	ND	ND	555.200	1.320	0.945	0.000	0.008
7/12/06 0:00	38-10	17773	0.410	512.800	31.817	ND	ND	564.800	0.825	0.942	0.000	0.006
7/12/06 12:00	38-11	17774	0.462	512.800	32.168	ND	ND	564.800	0.637	0.951	0.000	0.002
7/13/06 0:00	38-12	17775	0.451	512.800	28.094	ND	ND	556.800	0.640	0.829	0.000	0.003
7/13/06 12:00	38-13	17776	0.536	513.600	25.206	ND	ND	556.000	0.913	0.740	0.000	0.005
7/14/06 0:00	38-14	17777	0.396	513.600	24.329	ND	ND	564.800	0.544	0.718	0.000	0.002
7/14/06 12:00	38-15	17778	0.282	512.800	24.391	ND	ND	556.000	0.513	0.723	0.000	0.003
7/15/06 0:00	38-16	17779	0.379	513.600	23.946	ND	ND	564.800	0.558	0.707	0.000	0.003
7/15/06 12:00	38-17	17780	0.327	512.800	20.785	ND	ND	564.800	0.460	0.614	0.000	0.002
7/16/06 0:00	38-18	17781	0.462	513.600	20.826	ND	ND	564.800	0.603	0.611	0.000	0.002
7/16/06 12:00	38-19	17782	0.399	512.800	20.453	ND	ND	556.800	0.608	0.602	0.000	0.003

Appendix 3. 2006 SESF tracer test SE10 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
7/17/06 0:00	38-20	17783	0.301	512.800	19.589	ND	ND	556.800	0.463	0.579	0.000	0.002
7/17/06 12:00	38-21	17784	0.334	512.800	19.145	ND	ND	556.000	0.378	0.564	0.000	0.001
7/18/06 0:00	38-22	17785	0.417	512.800	19.259	ND	ND	555.200	0.673	0.565	0.000	0.004
7/18/06 12:00	39-1	15165	3.372	524.800	55.231	547.200	115.662	555.200	105.822	1.556	1.572	1.434
7/19/06 0:00	39-2	15166	8.961	524.800	52.456	548.000	100.362	555.200	94.080	1.305	1.280	1.192
7/19/06 12:00	39-3	15167	5.931	524.800	42.327	548.000	83.060	555.200	76.898	1.092	1.080	0.994
7/20/06 0:00	39-4	15168	7.389	524.800	38.575	547.200	69.872	555.200	64.812	0.936	0.875	0.804
7/20/06 12:00	39-5	15169	8.778	524.800	37.307	548.000	64.364	555.200	59.829	0.856	0.778	0.715
7/21/06 0:00	39-6	15170	7.675	524.800	32.672	547.200	52.367	555.200	48.599	0.750	0.626	0.573
7/21/06 12:00	39-7	15171	10.848	524.800	40.278	547.200	66.323	555.200	62.316	0.883	0.777	0.721
7/22/06 0:00	39-8	15172	11.005	524.800	37.399	547.200	56.419	555.200	52.713	0.792	0.636	0.584
7/22/06 12:00	39-9	15173	7.240	524.800	37.414	547.200	61.430	555.200	56.443	0.905	0.759	0.689
7/23/06 0:00	39-10	15174	10.439	524.800	38.725	547.200	57.841	555.200	53.688	0.849	0.664	0.605
7/23/06 12:00	39-11	15175	11.449	524.800	41.470	547.200	64.746	555.200	60.523	0.901	0.746	0.687
7/24/06 0:00	39-12	15176	10.089	524.800	43.279	547.200	69.112	555.200	64.458	0.996	0.826	0.761
7/24/06 12:00	39-13	15177	6.230	524.800	38.667	547.200	62.146	555.200	57.514	0.973	0.783	0.718
7/25/06 0:00	39-14	15178	9.189	524.800	39.882	546.400	58.816	555.200	54.464	0.921	0.695	0.634
7/25/06 12:00	40-1	15293	3.495	524.800	67.369	547.200	138.716	555.200	125.727	1.916	1.893	1.711
7/26/06 0:00	40-2	15294	4.496	524.800	65.749	547.200	134.602	555.200	122.276	1.838	1.821	1.649
7/26/06 12:00	40-3	15295	2.887	524.800	65.841	547.200	135.071	555.200	121.795	1.889	1.851	1.665
7/27/06 0:00	40-4	15296	4.424	524.800	63.895	547.200	129.021	555.200	117.026	1.784	1.744	1.576
7/27/06 12:00	40-5	15297	3.249	524.800	59.829	547.200	121.854	555.200	110.126	1.697	1.660	1.496
7/28/06 0:00	40-6	15298	4.150	524.800	65.783	547.200	135.196	555.200	123.951	1.849	1.835	1.677
7/28/06 12:00	40-7	15299	3.285	524.800	66.993	547.200	137.389	555.200	125.125	1.911	1.877	1.706
7/29/06 0:00	40-8	15300	4.165	524.800	63.061	547.200	129.802	555.200	118.678	1.767	1.759	1.603
7/29/06 12:00	40-9	15301	5.035	524.800	61.718	547.200	126.926	555.200	116.793	1.700	1.706	1.565
7/30/06 0:00	40-10	15302	6.991	524.800	68.073	547.200	139.260	555.200	128.123	1.832	1.852	1.696
7/30/06 12:00	40-11	15303	3.295	524.800	61.464	547.200	126.685	555.200	115.750	1.745	1.727	1.574
7/31/06 0:00	40-12	15304	3.513	524.800	63.165	548.000	130.390	555.200	119.842	1.790	1.776	1.629
7/31/06 12:00	40-13	15305	5.898	524.800	66.221	548.000	135.019	555.200	124.132	1.810	1.808	1.655
8/1/06 0:00	40-14	15306	3.808	524.800	63.741	548.000	132.934	555.200	121.823	1.798	1.808	1.652
8/1/06 12:00	41-1	17589	0.729	512.800	42.582	ND	ND	556.800	1.290	1.256	0.000	0.008
8/2/06 0:00	41-2	17590	0.420	512.800	41.719	ND	ND	556.800	1.094	1.239	0.000	0.009
8/2/06 12:00	41-3	17591	0.539	512.800	40.231	ND	ND	556.800	1.169	1.191	0.000	0.009
8/3/06 0:00	41-4	17592	0.368	512.800	29.136	ND	ND	557.600	0.769	0.863	0.000	0.006
8/3/06 12:00	41-5	17593	0.270	512.800	27.555	ND	ND	558.400	0.617	0.819	0.000	0.005
8/4/06 0:00	41-6	17594	0.483	512.800	28.082	ND	ND	556.800	0.657	0.828	0.000	0.002
8/4/06 12:00	41-7	17595	0.436	512.800	27.664	ND	ND	555.200	0.719	0.817	0.000	0.004
8/5/06 0:00	41-8	17596	0.297	512.800	25.798	ND	ND	556.800	0.623	0.765	0.000	0.005
8/5/06 12:00	41-9	17597	0.462	512.800	23.962	ND	ND	555.200	0.876	0.705	0.000	0.006

Appendix 3. 2006 SESF tracer test SE10 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
8/6/06 0:00	41-10	17598	0.404	513.600	21.824	ND	ND	557.600	0.527	0.643	0.000	0.002
8/6/06 12:00	41-11	17599	0.314	512.800	22.282	ND	ND	556.000	0.606	0.659	0.000	0.004
8/7/06 0:00	41-12	17600	0.299	512.800	21.039	ND	ND	555.200	0.494	0.622	0.000	0.003
8/7/06 12:00	41-13	17601	0.430	512.800	21.531	ND	ND	555.200	0.677	0.633	0.000	0.003
8/8/06 0:00	41-14	17602	0.484	512.800	22.073	ND	ND	556.800	0.931	0.648	0.000	0.006
8/8/06 12:00	41-15	17603	0.385	512.800	20.789	ND	ND	555.200	0.546	0.612	0.000	0.002
8/9/06 0:00	41-16	17604	0.461	524.800	16.099	ND	ND	555.200	37.658	0.469	0.000	0.521
8/9/06 12:00	41-17	17607	0.454	512.800	20.843	ND	ND	557.600	0.626	0.612	0.000	0.002
8/10/06 0:00	42-1	16503	0.906	512.800	73.345	ND	ND	555.200	2.084	2.173	0.000	0.016
8/10/06 12:00	42-2	16504	1.008	512.800	64.103	ND	ND	556.000	2.151	1.893	0.000	0.016
8/11/06 0:00	42-3	16505	1.558	512.800	74.132	ND	ND	555.200	1.955	2.177	0.000	0.006
8/11/06 12:00	42-4	16506	1.035	513.600	63.834	ND	ND	555.200	1.463	1.884	0.000	0.006
8/12/06 0:00	42-5	16507	0.770	512.800	68.716	ND	ND	556.800	1.905	2.038	0.000	0.016
8/12/06 12:00	42-6	16508	0.860	512.800	67.740	ND	ND	556.800	1.927	2.006	0.000	0.015
8/13/06 0:00	42-7	16509	0.865	512.800	66.099	ND	ND	556.800	2.225	1.957	0.000	0.019
8/13/06 12:00	42-8	16510	0.991	512.800	64.030	ND	ND	555.200	1.791	1.891	0.000	0.011
8/14/06 0:00	42-9	16511	2.054	512.800	58.887	ND	ND	557.600	2.276	1.705	0.000	0.003
8/14/06 12:00	42-10	16512	0.450	512.800	53.118	ND	ND	556.000	1.604	1.580	0.000	0.016
8/15/06 0:00	42-11	16513	1.041	512.800	59.177	ND	ND	555.200	1.437	1.744	0.000	0.006
8/15/06 12:00	42-12	16514	1.177	512.800	111.497	ND	ND	555.200	3.080	3.310	0.000	0.027
8/16/06 0:00	42-13	16515	1.660	512.800	118.540	ND	ND	556.800	3.366	3.506	0.000	0.024
8/16/06 12:00	42-14	16516	1.363	512.800	118.892	ND	ND	555.200	2.519	3.526	0.000	0.016
8/17/06 0:00	42-15	16517	1.834	512.800	113.805	ND	ND	564.800	2.878	3.359	0.000	0.015
8/17/06 12:00	42-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/18/06 0:00	42-17	16519	2.023	513.600	115.236	ND	ND	557.600	3.374	3.396	0.000	0.019
8/18/06 12:00	42-18	16520	2.502	512.800	105.450	ND	ND	564.800	2.806	3.088	0.000	0.004
8/19/06 0:00	42-19	16521	1.901	512.800	106.247	ND	ND	564.800	2.864	3.130	0.000	0.013
8/19/06 12:00	42-20	16522	2.173	512.800	106.387	ND	ND	564.800	2.363	3.126	0.000	0.003
8/20/06 0:00	42-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/20/06 12:00	42-22	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/21/06 0:00	42-23	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/21/06 12:00	43-1	16695	0.283	512.000	11.800	ND	ND	ND	ND	0.346	0.000	0.000
8/22/06 0:00	43-2	16696	0.335	512.800	13.084	ND	ND	ND	ND	0.382	0.000	0.000
8/22/06 12:00	43-3	16697	0.194	512.800	11.805	ND	ND	ND	ND	0.348	0.000	0.000
8/23/06 0:00	43-4	16698	0.214	512.800	11.844	ND	ND	ND	ND	0.349	0.000	0.000
8/23/06 12:00	43-5	16699	0.306	513.600	12.203	ND	ND	ND	ND	0.357	0.000	0.000
8/24/06 0:00	43-6	16700	0.104	512.800	11.811	ND	ND	ND	ND	0.351	0.000	0.000
8/24/06 12:00	43-7	16701	0.170	512.800	10.964	ND	ND	ND	ND	0.324	0.000	0.000
8/25/06 0:00	43-8	16702	0.419	513.600	13.358	ND	ND	ND	ND	0.388	0.000	0.000
8/25/06 12:00	43-9	16703	0.322	512.800	11.402	ND	ND	ND	ND	0.332	0.000	0.000

Appendix 3. 2006 SESF tracer test SE10 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
8/26/06 0:00	43-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/26/06 12:00	43-11	16704	0.243	512.800	11.883	ND	ND	ND	ND	0.349	0.000	0.000
8/27/06 0:00	43-12	16705	0.134	512.800	10.418	ND	ND	ND	ND	0.309	0.000	0.000
8/27/06 12:00	43-13	16706	0.269	512.800	11.655	ND	ND	ND	ND	0.342	0.000	0.000
8/28/06 0:00	43-14	16707	0.269	512.800	12.792	ND	ND	ND	ND	0.376	0.000	0.000
8/28/06 12:00	43-15	16708	0.303	512.800	12.748	ND	ND	ND	ND	0.373	0.000	0.000
8/29/06 0:00	43-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/29/06 12:00	43-17	16709	0.098	512.800	9.945	ND	ND	ND	ND	0.295	0.000	0.000
8/30/06 0:00	43-18	16710	0.184	512.800	10.377	ND	ND	ND	ND	0.306	0.000	0.000
8/30/06 12:00	44-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/31/06 0:00	44-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/31/06 12:00	44-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/1/06 0:00	44-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/1/06 12:00	44-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/2/06 0:00	44-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/2/06 12:00	44-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/3/06 0:00	44-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/3/06 12:00	44-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/4/06 0:00	44-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/4/06 12:00	44-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/5/06 0:00	44-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/5/06 12:00	44-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/6/06 0:00	44-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/6/06 12:00	45-1	17130	0.204	512.800	7.437	535.200	0.855	ND	ND	0.217	0.009	0.000
9/7/06 0:00	45-2	17131	0.229	513.600	10.260	535.200	1.006	ND	ND	0.301	0.011	0.000
9/7/06 12:00	45-3	17132	0.243	512.800	8.689	535.200	1.054	ND	ND	0.253	0.011	0.000
9/8/06 0:00	45-4	17133	0.248	512.800	8.403	535.200	0.987	ND	ND	0.245	0.010	0.000
9/8/06 12:00	45-5	17134	0.272	512.800	8.575	535.200	0.905	ND	ND	0.249	0.009	0.000
9/9/06 0:00	45-6	17135	0.479	512.800	9.062	535.200	1.651	ND	ND	0.257	0.016	0.000
9/9/06 12:00	45-7	17136	0.308	512.800	8.338	535.200	1.243	ND	ND	0.241	0.013	0.000
9/10/06 0:00	45-8	17137	0.289	512.800	6.033	535.200	0.760	ND	ND	0.172	0.007	0.000
9/10/06 12:00	45-9	17138	0.356	512.800	7.566	535.200	1.226	ND	ND	0.216	0.012	0.000
9/11/06 0:00	45-10	17139	0.246	512.800	8.827	535.200	0.889	ND	ND	0.257	0.009	0.000
9/11/06 12:00	45-11	17140	0.221	512.800	7.506	535.200	0.878	ND	ND	0.219	0.009	0.000
9/12/06 0:00	45-12	17141	0.462	512.800	7.468	535.200	1.834	ND	ND	0.210	0.019	0.000
9/12/06 12:00	45-13	17142	0.204	512.800	8.527	535.200	0.787	ND	ND	0.250	0.008	0.000
9/13/06 0:00	45-14	17143	0.246	512.800	7.346	535.200	0.956	ND	ND	0.213	0.010	0.000
9/13/06 12:00	45-15	17144	0.210	512.800	7.691	535.200	0.981	ND	ND	0.224	0.011	0.000
9/14/06 0:00	45-16	17145	0.182	512.800	7.431	535.200	0.847	ND	ND	0.217	0.009	0.000
9/14/06 12:00	45-17	17146	0.157	512.000	5.992	535.200	0.903	ND	ND	0.175	0.010	0.000

Appendix 3. 2006 SESF tracer test SE10 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 14:00	1-1	11327	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
9/15/06 0:00	45-18	17147	0.152	513.600	6.765	535.200	0.802	ND	ND	0.198	0.009	0.000
9/15/06 12:00	45-19	17148	0.255	513.600	5.480	535.200	1.060	ND	ND	0.157	0.011	0.000
9/16/06 0:00	45-20	17149	0.183	512.800	6.157	535.200	0.638	ND	ND	0.179	0.006	0.000
9/16/06 12:00	45-21	17150	0.176	512.800	7.247	535.200	0.743	ND	ND	0.212	0.008	0.000
9/17/06 0:00	45-22	17151	0.171	512.800	6.110	535.200	0.861	ND	ND	0.178	0.010	0.000
9/17/06 12:00	45-23	17152	0.181	513.600	6.281	535.200	0.679	ND	ND	0.183	0.007	0.000
9/18/06 0:00	45-24	17153	0.181	512.800	6.813	535.200	0.736	ND	ND	0.199	0.008	0.000

Appendix 4. SJ1 spectrofluorophotometer data.

Max			*17.446*	*524.800*	*181.220*	*549.600*	*244.520*	*564.800*	*43.416*	*5.399*	*3.403*	*0.380*
Min			*0.000*	*510.400*	*0.374*	*535.200*	*0.183*	*555.200*	*0.500*	*0.000*	*0.000*	*0.000*
Count			*562*	*452*	*452*	*452*	*452*	*90*	*200*	*612*	*612*	*612*
Date Time	**Field Sample Number**	**Lab Sample Number**	**Meas. Baseline (MEAS)**	**AY73 Wavelen (MEAS)**	**AY73 Intens (MEAS)**	**AR87 Wavelen (MEAS)**	**AR87 Intens (MEAS)**	**AR92 Wavelen (MEAS)**	**AR92 Intens (MEAS)**	**AY73 PPB (CALC)**	**AR87 PPB (CALC)**	**AR92 PPB (CALC)**
1/26/06 12:00	1-1	1137	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/26/06 16:00	1-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/26/06 20:00	1-3	1137	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 0:00	1-4	1137	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 4:00	1-5	1141	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 8:00	1-6	1141	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 12:00	1-7	1141	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 16:00	1-8	1141	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 20:00	1-9	1141	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/28/06 0:00	1-10	1142	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/28/06 4:00	1-11	1142	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/28/06 8:00	1-12	1142	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/28/06 12:00	1-13	1142	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/28/06 16:00	1-14	1142	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/28/06 20:00	2-1	1105	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/29/06 0:00	2-2	1105	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/29/06 4:00	2-3	1105	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/29/06 8:00	2-4	1105	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/29/06 12:00	2-5	1105	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/29/06 16:00	2-6	1105	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/29/06 20:00	2-7	1106	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/30/06 0:00	2-8	1106	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/30/06 4:00	2-9	1106	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/30/06 8:00	2-10	1106	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/30/06 12:00	2-11	1106	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/30/06 16:00	2-12	1106	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/30/06 20:00	2-13	1106	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 0:00	2-14	1106	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 4:00	2-15	1106	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 8:00	2-16	1106	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 12:00	2-17	1107	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 16:00	2-18	1107	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 20:00	2-19	1107	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/1/06 0:00	2-20	11073	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/1/06 4:00	2-21	11074	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/1/06 8:00	2-22	11075	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/1/06 12:00	2-23	11076	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/1/06 18:00	3-1	11151	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/2/06 0:00	3-2	11152	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/2/06 6:00	3-3	11153	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/2/06 12:00	3-4	11154	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/2/06 18:00	3-5	11155	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/3/06 0:00	3-6	11156	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/3/06 6:00	3-7	11157	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/3/06 12:00	3-8	11158	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/3/06 18:00	3-9	11159	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/4/06 0:00	3-10	11160	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/4/06 6:00	3-11	11161	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/4/06 12:00	4-1	11398	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/4/06 18:00	4-2	11399	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/5/06 0:00	4-3	11400	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/5/06 6:00	4-4	11401	0.000	NR	ND	NR	ND	NR	2.666	0.000	0.000	0.037
2/5/06 12:00	4-5	11402	0.000	NR	ND	NR	ND	NR	1.456	0.000	0.000	0.020
2/5/06 18:00	4-6	11403	0.000	NR	ND	NR	ND	NR	2.090	0.000	0.000	0.029
2/6/06 0:00	4-7	11404	0.000	NR	ND	NR	ND	NR	2.222	0.000	0.000	0.031
2/6/06 6:00	4-8	11405	0.000	NR	ND	NR	ND	NR	3.262	0.000	0.000	0.046
2/6/06 12:00	4-9	11406	0.000	NR	ND	NR	ND	NR	1.872	0.000	0.000	0.026
2/6/06 18:00	4-10	11407	0.000	NR	ND	NR	ND	NR	1.750	0.000	0.000	0.025
2/7/06 0:00	4-11	11408	0.000	NR	ND	NR	ND	NR	2.532	0.000	0.000	0.035
2/7/06 6:00	4-12	11409	0.000	NR	ND	NR	ND	NR	2.550	0.000	0.000	0.036
2/7/06 12:00	4-13	11410	0.000	NR	ND	NR	ND	NR	2.570	0.000	0.000	0.036
2/7/06 18:00	4-14	11411	0.000	NR	ND	NR	ND	NR	2.470	0.000	0.000	0.035
2/8/06 0:00	4-15	11412	0.000	NR	ND	NR	ND	NR	2.600	0.000	0.000	0.036
2/8/06 6:00	4-16	11413	0.000	NR	ND	NR	ND	NR	3.244	0.000	0.000	0.045
2/8/06 12:00	4-17	11414	0.000	NR	ND	NR	ND	NR	3.032	0.000	0.000	0.042
2/8/06 18:00	5-1	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/9/06 0:00	5-2	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/9/06 6:00	5-3	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/9/06 12:00	5-4	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/9/06 18:00	5-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/10/06 0:00	5-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/10/06 6:00	5-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/10/06 12:00	5-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/10/06 18:00	5-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/11/06 0:00	5-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/11/06 6:00	5-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/11/06 12:00	5-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/11/06 12:46	grab-	11696	0.000	NR	ND	NR	ND	NR	3.651	0.000	0.000	0.051
2/11/06 18:00	5-1	11885	0.000	NR	ND	NR	ND	NR	3.140	0.000	0.000	0.044
2/12/06 0:00	5-2	11886	0.000	NR	ND	NR	ND	NR	3.323	0.000	0.000	0.047
2/12/06 6:00	5-3	11887	0.000	NR	ND	NR	ND	NR	3.591	0.000	0.000	0.050
2/12/06 12:00	5-4	11888	0.000	NR	ND	NR	ND	NR	4.289	0.000	0.000	0.060
2/12/06 18:00	5-5	11889	NR	NR	NR	NR	NR	NR	NR	N/A	N/A	N/A
2/13/06 0:00	5-6	11890	0.000	NR	ND	NR	ND	NR	4.009	0.000	0.000	0.056
2/13/06 6:00	5-7	11891	0.000	NR	ND	NR	ND	NR	3.986	0.000	0.000	0.056
2/13/06 12:00	5-8	11892	0.000	NR	ND	NR	ND	NR	4.477	0.000	0.000	0.063
2/13/06 18:00	5-9	11893	0.000	NR	ND	NR	ND	NR	3.951	0.000	0.000	0.055
2/14/06 0:00	5-10	11894	0.000	NR	ND	NR	ND	NR	4.180	0.000	0.000	0.059
2/14/06 6:00	5-11	11895	0.000	NR	ND	NR	ND	NR	5.424	0.000	0.000	0.076
2/14/06 12:00	5-12	11896	0.000	NR	ND	NR	ND	NR	3.760	0.000	0.000	0.053
2/14/06 18:00	5-13	11897	0.000	NR	ND	NR	ND	NR	3.457	0.000	0.000	0.048
2/15/06 0:00	5-14	11898	0.000	NR	ND	NR	ND	NR	4.800	0.000	0.000	0.067
2/15/06 6:00	5-15	11899	0.000	NR	ND	NR	ND	NR	4.436	0.000	0.000	0.062
2/15/06 12:00	5-16	11900	0.000	NR	ND	NR	ND	NR	5.708	0.000	0.000	0.080
2/15/06 18:00	6-1	12115	0.000	NR	ND	NR	ND	NR	3.070	0.000	0.000	0.043
2/16/06 0:00	6-2	12116	0.000	NR	ND	NR	ND	NR	6.670	0.000	0.000	0.093
2/16/06 6:00	6-3	12117	0.000	NR	ND	NR	ND	NR	6.620	0.000	0.000	0.093
2/16/06 12:00	6-4	12118	0.000	NR	ND	NR	ND	NR	5.690	0.000	0.000	0.080
2/16/06 18:00	6-5	12119	0.000	NR	ND	NR	ND	NR	5.230	0.000	0.000	0.073
2/17/06 0:00	6-6	12120	0.000	NR	ND	NR	ND	NR	6.390	0.000	0.000	0.089
2/17/06 6:00	6-7	12121	0.000	NR	ND	NR	ND	NR	4.430	0.000	0.000	0.062
2/17/06 12:00	6-8	12122	0.000	NR	ND	NR	ND	NR	5.900	0.000	0.000	0.083
2/17/06 18:00	6-9	12123	0.000	NR	ND	NR	ND	NR	5.720	0.000	0.000	0.080
2/18/06 0:00	6-10	12124	0.000	NR	ND	NR	ND	NR	5.880	0.000	0.000	0.082
2/18/06 6:00	6-11	12125	0.000	NR	ND	NR	ND	NR	5.680	0.000	0.000	0.080
2/18/06 12:00	7-1	12053	0.000	NR	ND	NR	ND	NR	3.090	0.000	0.000	0.043
2/18/06 18:00	7-2	12054	0.000	NR	ND	NR	ND	NR	3.780	0.000	0.000	0.053
2/19/06 0:00	7-3	12055	0.000	NR	ND	NR	ND	NR	4.210	0.000	0.000	0.059
2/19/06 6:00	7-4	12056	0.000	NR	ND	NR	ND	NR	3.820	0.000	0.000	0.053
2/19/06 12:00	7-5	12057	0.000	NR	ND	NR	ND	NR	3.310	0.000	0.000	0.046
2/19/06 18:00	7-6	12058	0.000	NR	ND	NR	ND	NR	3.920	0.000	0.000	0.055
2/20/06 0:00	7-7	12059	0.000	NR	ND	NR	ND	NR	3.910	0.000	0.000	0.055
2/20/06 6:00	7-8	12060	0.000	NR	ND	NR	ND	NR	4.090	0.000	0.000	0.057
2/20/06 12:00	7-9	12061	0.000	NR	ND	NR	ND	NR	3.850	0.000	0.000	0.054

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/20/06 18:00	7-10	12062	0.000	NR	ND	NR	ND	NR	3.690	0.000	0.000	0.052
2/21/06 0:00	7-11	12063	0.000	NR	ND	NR	ND	NR	3.890	0.000	0.000	0.054
2/21/06 6:00	7-12	12064	0.000	NR	ND	NR	ND	NR	4.400	0.000	0.000	0.062
2/21/06 12:00	7-13	12065	0.000	NR	ND	NR	ND	NR	3.660	0.000	0.000	0.051
2/21/06 18:00	7-14	12066	0.000	NR	ND	NR	ND	NR	3.340	0.000	0.000	0.047
2/22/06 0:00	7-15	12067	0.000	NR	ND	NR	ND	NR	3.290	0.000	0.000	0.046
2/22/06 6:00	7-16	12068	0.000	NR	ND	NR	ND	NR	3.230	0.000	0.000	0.045
2/22/06 12:00	7-17	12069	0.000	NR	ND	NR	ND	NR	4.140	0.000	0.000	0.058
2/22/06 18:00	8-1	12251	0.000	NR	ND	NR	ND	NR	3.280	0.000	0.000	0.046
2/23/06 0:00	8-2	12252	0.000	NR	ND	NR	ND	NR	3.970	0.000	0.000	0.056
2/23/06 6:00	8-3	12253	0.000	NR	ND	NR	ND	NR	3.140	0.000	0.000	0.044
2/23/06 12:00	8-4	12254	0.000	NR	ND	NR	ND	NR	2.610	0.000	0.000	0.037
2/23/06 18:00	8-5	12255	0.000	NR	ND	NR	ND	NR	3.350	0.000	0.000	0.047
2/24/06 0:00	8-6	12256	0.000	NR	ND	NR	ND	NR	3.670	0.000	0.000	0.051
2/24/06 6:00	8-7	12257	0.000	NR	ND	NR	ND	NR	3.490	0.000	0.000	0.049
2/24/06 12:00	8-8	12258	0.000	NR	ND	NR	ND	NR	2.640	0.000	0.000	0.037
2/24/06 18:00	8-9	12259	0.000	NR	ND	NR	ND	NR	3.740	0.000	0.000	0.052
2/25/06 0:00	8-10	12260	0.000	NR	ND	NR	ND	NR	3.140	0.000	0.000	0.044
2/25/06 6:00	8-11	12261	0.000	NR	ND	NR	ND	NR	2.930	0.000	0.000	0.041
2/25/06 12:00	8-12	12262	0.000	NR	ND	NR	ND	NR	3.600	0.000	0.000	0.050
2/25/06 18:00	9-1	12219	0.000	NR	ND	NR	ND	NR	2.750	0.000	0.000	0.039
2/26/06 0:00	9-2	12220	0.000	NR	ND	NR	ND	NR	2.700	0.000	0.000	0.038
2/26/06 6:00	9-3	12221	0.000	NR	ND	NR	ND	NR	2.090	0.000	0.000	0.029
2/26/06 12:00	9-4	12222	0.000	NR	ND	NR	ND	NR	2.310	0.000	0.000	0.032
2/26/06 18:00	9-5	12223	0.000	NR	ND	NR	ND	NR	2.540	0.000	0.000	0.036
2/27/06 0:00	9-6	12224	0.000	NR	ND	NR	ND	NR	2.110	0.000	0.000	0.030
2/27/06 6:00	9-7	12225	0.000	NR	ND	NR	ND	NR	3.390	0.000	0.000	0.047
2/27/06 12:00	9-8	12226	0.000	NR	ND	NR	ND	NR	2.200	0.000	0.000	0.031
2/27/06 18:00	9-9	12227	0.000	NR	ND	NR	ND	NR	2.760	0.000	0.000	0.039
2/28/06 0:00	9-10	12228	0.000	NR	ND	NR	ND	NR	2.640	0.000	0.000	0.037
2/28/06 6:00	9-11	12229	0.000	NR	ND	NR	ND	NR	2.370	0.000	0.000	0.033
2/28/06 12:00	9-12	12230	0.000	NR	ND	NR	ND	NR	3.650	0.000	0.000	0.051
2/28/06 18:00	9-13	12231	0.000	NR	ND	NR	ND	NR	2.670	0.000	0.000	0.037
3/1/06 0:00	9-14	12232	0.000	NR	ND	NR	ND	NR	3.580	0.000	0.000	0.050
3/1/06 6:00	9-15	12233	0.000	NR	ND	NR	ND	NR	2.770	0.000	0.000	0.039
3/1/06 12:00	9-16	12234	0.000	NR	ND	NR	ND	NR	2.145	0.000	0.000	0.030
3/7/06 18:00	10-1	12516	0.000	NR	ND	NR	ND	NR	5.153	0.000	0.000	0.072
3/8/06 0:00	10-2	12517	0.000	NR	ND	NR	ND	NR	3.332	0.000	0.000	0.047
3/8/06 6:00	10-3	12518	0.000	NR	ND	NR	ND	NR	4.125	0.000	0.000	0.058
3/8/06 12:00	10-4	12519	0.000	NR	ND	NR	ND	NR	3.461	0.000	0.000	0.048

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/8/06 18:00	10-5	12520	0.000	NR	ND	NR	ND	NR	3.485	0.000	0.000	0.049
3/9/06 0:00	10-6	12521	0.000	NR	ND	NR	ND	NR	3.985	0.000	0.000	0.056
3/9/06 6:00	10-7	12522	0.000	NR	ND	NR	ND	NR	4.329	0.000	0.000	0.061
3/9/06 12:00	10-8	12523	0.000	NR	ND	NR	ND	NR	4.838	0.000	0.000	0.068
3/9/06 18:00	10-9	12524	0.000	NR	ND	NR	ND	NR	4.261	0.000	0.000	0.060
3/10/06 0:00	10-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/10/06 6:00	10-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/10/06 12:00	10-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/10/06 18:00	10-13	12525	0.000	NR	ND	NR	ND	NR	3.700	0.000	0.000	0.052
3/11/06 0:00	10-14	12526	0.000	NR	ND	NR	ND	NR	4.565	0.000	0.000	0.064
3/11/06 6:00	10-15	12527	0.000	NR	ND	NR	ND	NR	3.822	0.000	0.000	0.054
3/11/06 12:00	11-1	12499	0.000	NR	ND	NR	ND	NR	2.769	0.000	0.000	0.039
3/11/06 18:00	11-2	12500	0.000	NR	ND	NR	ND	NR	3.146	0.000	0.000	0.044
3/12/06 0:00	11-3	12501	0.000	NR	ND	NR	ND	NR	3.535	0.000	0.000	0.049
3/12/06 6:00	11-4	12502	0.000	NR	ND	NR	ND	NR	3.756	0.000	0.000	0.053
3/12/06 12:00	11-5	12503	0.000	NR	ND	NR	ND	NR	2.154	0.000	0.000	0.030
3/12/06 18:00	11-6	12504	0.000	NR	ND	NR	ND	NR	2.737	0.000	0.000	0.038
3/13/06 0:00	11-7	12505	0.000	NR	ND	NR	ND	NR	4.783	0.000	0.000	0.067
3/13/06 6:00	11-8	12506	0.000	NR	ND	NR	ND	NR	2.865	0.000	0.000	0.040
3/13/06 12:00	11-9	12507	0.000	NR	ND	NR	ND	NR	2.861	0.000	0.000	0.040
3/13/06 18:00	11-10	12508	0.000	NR	ND	NR	ND	NR	3.736	0.000	0.000	0.052
3/14/06 0:00	11-11	12509	0.000	NR	ND	NR	ND	NR	3.586	0.000	0.000	0.050
3/14/06 6:00	11-12	12510	0.000	NR	ND	NR	ND	NR	3.186	0.000	0.000	0.045
3/14/06 12:00	11-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/14/06 18:00	11-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/15/06 0:00	11-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/15/06 6:00	11-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/15/06 12:00	11-17	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/15/06 18:00	12-1	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/16/06 0:00	12-2	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/16/06 6:00	12-3	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/16/06 12:00	12-4	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/16/06 18:00	12-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/17/06 0:00	12-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/17/06 6:00	12-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/17/06 12:00	12-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/17/06 18:00	12-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/18/06 0:00	12-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/18/06 6:00	12-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/18/06 12:00	12-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/18/06 18:00	12-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/19/06 0:00	12-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/19/06 6:00	12-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/19/06 12:00	13-1	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/19/06 18:00	13-2	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/20/06 0:00	13-3	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/20/06 6:00	13-4	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/20/06 12:00	13-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/20/06 18:00	13-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/21/06 0:00	13-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/21/06 6:00	13-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/21/06 12:00	13-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/21/06 18:00	13-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/22/06 0:00	13-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/22/06 6:00	13-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/22/06 12:00	14-1	12990	0.984	520.800	90.658	541.600	100.394	ND	ND	2.690	1.392	0.000
3/22/06 18:00	14-2	12991	1.029	519.200	90.012	540.800	99.340	ND	ND	2.669	1.376	0.000
3/23/06 0:00	14-3	12992	1.133	519.200	103.378	540.800	114.145	ND	ND	3.067	1.582	0.000
3/23/06 6:00	14-4	12993	0.933	518.400	109.425	540.800	122.187	ND	ND	3.255	1.698	0.000
3/23/06 12:00	14-5	12994	2.882	519.200	113.942	540.000	126.316	ND	ND	3.332	1.728	0.000
3/23/06 18:00	14-6	12995	2.010	519.200	110.503	541.600	130.300	ND	ND	3.255	1.796	0.000
3/24/06 0:00	14-7	12996	1.229	520.000	120.109	540.800	133.669	ND	ND	3.566	1.854	0.000
3/24/06 6:00	14-8	12997	1.253	520.800	121.483	541.600	136.643	ND	ND	3.607	1.895	0.000
3/24/06 12:00	14-9	12998	1.147	520.000	114.799	541.600	131.066	ND	ND	3.410	1.819	0.000
3/24/06 18:00	14-10	12999	1.365	520.000	107.727	541.600	125.723	ND	ND	3.191	1.741	0.000
3/25/06 0:00	14-11	13000	1.459	518.400	132.028	540.800	148.877	ND	ND	3.917	2.064	0.000
3/25/06 6:00	14-12	13001	1.081	519.200	130.463	541.600	145.663	ND	ND	3.881	2.024	0.000
3/25/06 12:00	15-1	13006	1.357	520.800	78.121	540.800	74.368	ND	ND	2.303	1.022	0.000
3/25/06 18:00	15-2	13007	1.208	520.000	73.657	540.800	70.893	ND	ND	2.173	0.976	0.000
3/26/06 0:00	15-3	13008	1.422	517.600	92.066	540.800	92.395	ND	ND	2.719	1.274	0.000
3/26/06 6:00	15-4	13009	1.369	518.400	94.215	541.600	92.760	ND	ND	2.785	1.279	0.000
3/26/06 12:00	15-5	13010	1.018	517.600	85.426	540.800	85.650	ND	ND	2.532	1.185	0.000
3/26/06 18:00	15-6	13011	1.235	519.200	74.729	540.800	70.229	ND	ND	2.205	0.966	0.000
3/27/06 0:00	15-7	13012	1.223	519.200	76.852	541.600	79.369	ND	ND	2.269	1.094	0.000
3/27/06 6:00	15-8	13013	1.284	519.200	92.296	540.000	90.194	ND	ND	2.730	1.245	0.000
3/27/06 12:00	15-9	13014	0.990	517.600	70.228	540.000	71.865	ND	ND	2.077	0.992	0.000
3/27/06 18:00	15-10	13015	1.004	519.200	61.073	540.000	58.300	ND	ND	1.802	0.802	0.000
3/28/06 0:00	15-11	13016	1.229	518.400	65.728	541.600	63.895	ND	ND	1.935	0.877	0.000
3/28/06 6:00	15-12	13017	1.384	519.200	67.660	540.800	66.275	ND	ND	1.988	0.908	0.000
3/28/06 12:00	16-1	12921	1.498	520.000	143.926	540.800	180.746	ND	ND	4.273	2.509	0.000

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/28/06 18:00	16-2	12922	1.397	522.400	147.780	542.400	198.397	ND	ND	4.391	2.758	0.000
3/29/06 0:00	16-3	12923	1.285	521.600	171.108	541.600	227.410	ND	ND	5.095	3.166	0.000
3/29/06 6:00	16-4	12924	1.428	524.800	178.407	540.800	244.520	ND	ND	5.309	3.403	0.000
3/29/06 12:00	16-5	12925	1.678	520.800	163.140	540.800	220.984	ND	ND	4.844	3.070	0.000
3/29/06 18:00	16-6	12926	1.173	524.800	138.946	541.600	193.997	ND	ND	4.133	2.700	0.000
3/30/06 0:00	16-7	12927	1.510	524.800	155.187	541.600	209.549	ND	ND	4.610	2.913	0.000
3/30/06 6:00	16-8	12928	1.423	524.800	158.401	541.600	216.020	ND	ND	4.709	3.004	0.000
3/30/06 12:00	16-9	12929	1.605	524.800	135.003	542.400	192.895	ND	ND	4.002	2.678	0.000
3/30/06 18:00	16-10	12930	1.876	519.200	129.757	541.600	180.566	ND	ND	3.836	2.502	0.000
3/31/06 0:00	16-11	12931	6.107	524.800	132.016	540.800	182.000	ND	ND	3.777	2.463	0.000
3/31/06 6:00	16-12	12932	2.089	524.800	139.906	541.600	189.853	ND	ND	4.135	2.629	0.000
3/31/06 12:00	16-13	12933	1.425	524.800	123.520	542.400	165.463	ND	ND	3.663	2.297	0.000
3/31/06 18:00	17-1	13018	1.346	519.200	104.994	540.800	139.943	ND	ND	3.109	1.940	0.000
4/1/06 0:00	17-2	13019	1.588	521.600	117.371	541.600	153.696	ND	ND	3.473	2.130	0.000
4/1/06 6:00	17-3	13020	1.370	520.800	120.053	542.400	158.356	ND	ND	3.560	2.198	0.000
4/1/06 12:00	17-4	13021	1.357	520.000	69.442	541.600	90.239	ND	ND	2.043	1.244	0.000
4/1/06 18:00	17-5	13022	1.591	520.000	67.691	540.800	88.958	ND	ND	1.983	1.223	0.000
4/2/06 0:00	17-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/2/06 6:00	17-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/2/06 12:00	17-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/2/06 18:00	17-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/3/06 0:00	17-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/3/06 6:00	17-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/3/06 12:00	17-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/3/06 18:00	17-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/4/06 0:00	17-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/4/06 6:00	17-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/4/06 11:17	grab-	13023	1.248	520.800	181.220	541.600	242.740	ND	ND	5.399	3.381	0.000
4/4/06 12:00	18-1	13541	0.974	524.800	141.198	540.800	192.928	ND	ND	4.207	2.687	0.000
4/4/06 18:00	18-2	13542	1.195	520.000	117.805	540.800	153.318	ND	ND	3.498	2.130	0.000
4/5/06 0:00	18-3	13543	1.304	520.800	133.130	541.600	170.954	ND	ND	3.955	2.375	0.000
4/5/06 6:00	18-4	13544	1.016	521.600	134.846	541.600	168.250	ND	ND	4.015	2.341	0.000
4/5/06 12:00	18-5	13545	1.486	520.800	111.269	542.400	136.535	ND	ND	3.293	1.891	0.000
4/5/06 18:00	18-6	13546	1.484	519.200	96.420	540.800	118.346	ND	ND	2.848	1.636	0.000
4/6/06 0:00	18-7	13547	1.268	520.000	110.063	540.800	135.180	ND	ND	3.264	1.875	0.000
4/6/06 6:00	18-8	13548	1.103	524.800	93.390	541.600	131.334	ND	ND	2.769	1.823	0.000
4/6/06 12:00	18-9	13549	1.252	521.600	89.482	541.600	108.970	ND	ND	2.647	1.508	0.000
4/6/06 18:00	18-10	13550	1.121	520.000	77.671	541.600	94.740	ND	ND	2.297	1.311	0.000
4/7/06 0:00	18-11	13551	1.272	520.000	96.634	541.600	110.364	ND	ND	2.861	1.527	0.000
4/7/06 6:00	18-12	13552	1.154	518.400	92.164	540.800	110.777	ND	ND	2.730	1.535	0.000

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/7/06 12:00	19-1	13595	1.361	524.800	93.735	541.600	128.421	ND	ND	2.771	1.779	0.000
4/7/06 18:00	19-2	13596	1.216	521.600	83.391	541.600	116.032	ND	ND	2.465	1.607	0.000
4/8/06 0:00	19-3	13597	1.074	520.000	91.290	540.800	123.677	ND	ND	2.706	1.716	0.000
4/8/06 6:00	19-4	13598	1.103	520.000	97.667	540.000	121.612	ND	ND	2.897	1.687	0.000
4/8/06 12:00	19-5	13599	1.237	524.800	50.990	542.400	96.444	ND	ND	1.493	1.333	0.000
4/8/06 18:00	19-6	13600	1.258	520.800	85.020	541.600	105.042	ND	ND	2.513	1.453	0.000
4/9/06 0:00	19-7	13601	1.114	520.000	92.707	541.600	115.601	ND	ND	2.748	1.603	0.000
4/9/06 6:00	19-8	13602	0.986	518.400	90.550	540.000	118.000	ND	ND	2.687	1.638	0.000
4/9/06 12:00	19-9	13603	1.217	519.200	78.459	540.800	105.733	ND	ND	2.317	1.463	0.000
4/9/06 18:00	19-10	13604	1.169	522.400	82.725	541.600	99.023	ND	ND	2.447	1.370	0.000
4/10/06 0:00	19-11	13605	1.254	521.600	88.122	541.600	115.334	ND	ND	2.606	1.597	0.000
4/10/06 6:00	19-12	13606	1.142	524.800	75.135	541.600	124.321	ND	ND	2.220	1.725	0.000
4/10/06 12:00	19-13	13607	1.217	524.800	62.075	541.600	108.704	ND	ND	1.826	1.505	0.000
4/10/06 18:00	19-14	13608	1.375	520.000	88.748	540.800	107.903	ND	ND	2.621	1.491	0.000
4/11/06 0:00	19-15	13609	1.386	520.000	99.868	541.600	124.448	ND	ND	2.954	1.723	0.000
4/11/06 6:00	19-16	13610	1.173	522.400	102.149	542.400	125.759	ND	ND	3.029	1.744	0.000
4/11/06 12:00	20-1	13468	5.080	524.800	75.304	541.600	113.165	ND	ND	2.107	1.513	0.000
4/11/06 18:00	20-2	13469	4.536	518.400	102.070	540.800	114.182	ND	ND	2.926	1.535	0.000
4/12/06 0:00	20-3	13470	4.797	520.800	99.723	540.800	125.378	ND	ND	2.848	1.688	0.000
4/12/06 6:00	20-4	13471	6.335	524.800	103.008	541.600	125.062	ND	ND	2.900	1.662	0.000
4/12/06 12:00	20-5	13472	4.578	520.800	93.954	541.600	105.711	ND	ND	2.681	1.416	0.000
4/12/06 18:00	20-6	13473	4.549	519.200	95.287	540.000	102.199	ND	ND	2.722	1.367	0.000
4/13/06 0:00	20-7	13474	4.486	519.200	103.761	540.800	115.294	ND	ND	2.978	1.551	0.000
4/13/06 6:00	20-8	13475	4.964	521.600	80.476	541.600	110.540	ND	ND	2.265	1.478	0.000
4/13/06 12:00	20-9	13476	4.497	524.800	68.870	540.800	94.992	ND	ND	1.931	1.267	0.000
4/13/06 18:00	20-10	13477	4.309	519.200	89.738	541.600	96.715	ND	ND	2.563	1.294	0.000
4/14/06 0:00	20-11	13478	4.283	519.200	100.096	540.800	110.523	ND	ND	2.874	1.487	0.000
4/14/06 6:00	20-12	13479	4.199	520.000	102.020	541.600	108.618	ND	ND	2.935	1.462	0.000
4/14/06 12:00	21-1	13455	1.493	519.200	94.574	540.800	94.499	ND	ND	2.792	1.302	0.000
4/14/06 18:00	21-2	13456	1.479	519.200	73.142	540.000	72.492	ND	ND	2.150	0.994	0.000
4/15/06 0:00	21-3	13457	1.521	520.000	86.119	540.000	81.355	ND	ND	2.538	1.118	0.000
4/15/06 6:00	21-4	13458	1.427	518.400	87.817	541.600	83.370	ND	ND	2.592	1.147	0.000
4/15/06 12:00	21-5	13459	1.804	518.400	80.122	540.800	73.988	ND	ND	2.350	1.011	0.000
4/15/06 18:00	21-6	13460	1.563	518.400	70.134	541.600	63.453	ND	ND	2.057	0.866	0.000
4/16/06 0:00	21-7	13461	1.741	519.200	76.755	540.800	69.209	ND	ND	2.250	0.945	0.000
4/16/06 6:00	21-8	13462	1.857	519.200	78.370	540.800	71.334	ND	ND	2.295	0.973	0.000
4/16/06 12:00	21-9	13463	1.804	518.400	70.524	541.600	61.149	ND	ND	2.062	0.831	0.000
4/16/06 18:00	21-10	13464	1.865	518.400	62.818	541.600	55.880	ND	ND	1.829	0.756	0.000
4/17/06 0:00	21-11	13465	2.389	517.600	71.323	540.800	67.167	ND	ND	2.068	0.907	0.000
4/17/06 6:00	21-12	13466	1.687	518.400	71.249	540.800	70.962	ND	ND	2.087	0.970	0.000

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/17/06 12:00	21-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/17/06 18:00	21-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/18/06 0:00	21-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/18/06 6:00	21-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/18/06 12:00	22-1	13642	1.973	519.200	87.631	540.800	84.712	ND	ND	2.570	1.158	0.000
4/18/06 18:00	22-2	13643	4.729	519.200	79.616	540.800	72.606	ND	ND	2.247	0.950	0.000
4/19/06 0:00	22-3	13644	4.802	517.600	92.049	541.600	81.971	ND	ND	2.617	1.080	0.000
4/19/06 6:00	22-4	13645	2.769	517.600	89.686	540.000	79.144	ND	ND	2.608	1.069	0.000
4/19/06 12:00	22-5	13646	2.295	519.200	76.673	540.800	64.600	ND	ND	2.231	0.872	0.000
4/19/06 18:00	22-6	13647	1.858	519.200	73.438	540.000	63.803	ND	ND	2.147	0.867	0.000
4/20/06 0:00	22-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/20/06 6:00	22-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/20/06 12:00	22-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/20/06 18:00	22-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/21/06 0:00	22-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/21/06 6:00	22-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/21/06 12:00	23-1	13587	1.082	518.400	78.228	541.600	62.778	ND	ND	2.314	0.864	0.000
4/21/06 18:00	23-2	13588	0.920	517.600	58.369	539.200	46.745	ND	ND	1.723	0.642	0.000
4/22/06 0:00	23-3	13589	1.003	518.400	67.919	540.000	54.694	ND	ND	2.007	0.752	0.000
4/22/06 6:00	23-4	13590	1.132	517.600	73.064	540.800	54.823	ND	ND	2.158	0.752	0.000
4/22/06 12:00	23-5	13591	0.822	518.400	69.791	540.000	49.549	ND	ND	2.069	0.682	0.000
4/22/06 18:00	23-6	13592	1.138	516.800	59.780	538.400	44.322	ND	ND	1.759	0.605	0.000
4/23/06 0:00	23-7	13593	1.285	518.400	70.235	535.200	51.632	ND	ND	2.069	0.705	0.000
4/23/06 6:00	23-8	13594	1.047	518.400	68.975	535.200	48.612	ND	ND	2.038	0.666	0.000
4/23/06 12:00	23-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/23/06 18:00	23-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/24/06 0:00	23-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/24/06 6:00	23-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/24/06 12:00	23-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/24/06 18:00	23-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/25/06 0:00	23-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/25/06 6:00	23-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/25/06 12:00	24-1	13690	1.138	518.400	66.231	536.000	49.828	ND	ND	1.953	0.682	0.000
4/25/06 18:00	24-2	13691	1.067	516.800	58.097	535.200	42.506	ND	ND	1.711	0.580	0.000
4/26/06 0:00	24-3	13692	0.951	517.600	63.340	536.000	45.528	ND	ND	1.872	0.624	0.000
4/26/06 6:00	24-4	13693	0.971	518.400	62.173	539.200	45.066	ND	ND	1.836	0.617	0.000
4/26/06 12:00	24-5	13694	1.268	519.200	64.675	535.200	43.819	ND	ND	1.902	0.596	0.000
4/26/06 18:00	24-6	13695	1.062	518.400	64.019	535.200	42.556	ND	ND	1.889	0.581	0.000
4/27/06 0:00	24-7	13696	1.059	517.600	71.009	535.200	46.064	ND	ND	2.099	0.630	0.000
4/27/06 6:00	24-8	13697	1.218	517.600	68.580	535.200	45.001	ND	ND	2.021	0.613	0.000

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/27/06 12:00	24-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/27/06 18:00	24-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/28/06 0:00	24-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/28/06 6:00	24-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/28/06 12:00	24-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/28/06 18:00	25-1	13698	1.094	518.400	59.484	535.200	39.395	ND	ND	1.752	0.536	0.000
4/29/06 0:00	25-2	13699	0.993	518.400	64.389	535.200	41.845	ND	ND	1.902	0.572	0.000
4/29/06 6:00	25-3	13700	0.802	518.400	66.841	535.200	41.704	ND	ND	1.981	0.573	0.000
4/29/06 12:00	25-4	13701	1.034	517.600	62.524	535.200	38.395	ND	ND	1.845	0.523	0.000
4/29/06 18:00	25-5	13702	0.916	517.600	55.799	535.200	31.683	ND	ND	1.646	0.431	0.000
4/30/06 0:00	25-6	13703	1.056	517.600	60.754	535.200	35.494	ND	ND	1.791	0.482	0.000
4/30/06 6:00	25-7	13704	1.114	518.400	61.622	535.200	35.926	ND	ND	1.815	0.487	0.000
4/30/06 12:00	25-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/30/06 18:00	25-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/1/06 0:00	25-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/1/06 6:00	25-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/1/06 12:00	25-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/1/06 18:00	25-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/2/06 0:00	25-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/2/06 6:00	25-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/2/06 12:00	26-1	13916	1.387	518.400	69.153	535.200	43.575	ND	ND	2.033	0.591	0.000
5/2/06 18:00	26-2	13917	1.175	516.800	62.391	535.200	37.114	ND	ND	1.836	0.503	0.000
5/3/06 0:00	26-3	13918	1.325	517.600	66.253	535.200	41.045	ND	ND	1.948	0.556	0.000
5/3/06 6:00	26-4	13919	1.673	518.400	66.368	535.200	39.766	ND	ND	1.941	0.533	0.000
5/3/06 12:00	26-5	13920	1.759	517.600	60.325	535.200	36.751	ND	ND	1.757	0.490	0.000
5/3/06 18:00	26-6	13921	2.172	517.600	45.305	535.200	29.911	ND	ND	1.294	0.388	0.000
5/4/06 0:00	26-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/4/06 6:00	26-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/4/06 12:00	26-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/4/06 18:00	26-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/5/06 0:00	26-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/5/06 6:00	26-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/5/06 12:00	27-1	13938	1.237	517.600	55.538	535.200	35.796	ND	ND	1.629	0.484	0.000
5/5/06 18:00	27-2	13939	1.311	517.600	55.339	535.200	33.334	ND	ND	1.621	0.448	0.000
5/6/06 0:00	27-3	13940	1.314	518.400	54.094	535.200	35.172	ND	ND	1.583	0.474	0.000
5/6/06 6:00	27-4	13941	1.311	517.600	60.812	535.200	34.458	ND	ND	1.785	0.464	0.000
5/6/06 12:00	27-5	13942	1.383	517.600	56.396	535.200	33.668	ND	ND	1.650	0.452	0.000
5/6/06 18:00	27-6	13943	1.523	516.800	50.660	535.200	31.674	ND	ND	1.474	0.422	0.000
5/7/06 0:00	27-7	13944	1.726	517.600	58.077	535.200	33.787	ND	ND	1.691	0.449	0.000
5/7/06 6:00	27-8	13945	1.479	517.600	54.589	535.200	32.238	ND	ND	1.593	0.431	0.000

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/7/06 12:00	27-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/7/06 18:00	27-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/8/06 0:00	27-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/8/06 6:00	27-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/8/06 12:00	27-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/8/06 18:00	27-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/9/06 0:00	27-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/9/06 6:00	27-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/9/06 12:00	28-1	14368	1.172	519.200	46.970	535.200	31.609	ND	ND	1.374	0.426	0.000
5/9/06 18:00	28-2	14369	1.546	517.600	42.280	535.200	25.462	ND	ND	1.222	0.335	0.000
5/10/06 0:00	28-3	14370	1.198	517.600	48.605	535.200	28.396	ND	ND	1.422	0.381	0.000
5/10/06 6:00	28-4	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/10/06 12:00	28-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/10/06 18:00	28-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/11/06 0:00	28-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/11/06 6:00	28-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/11/06 12:00	28-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/11/06 18:00	28-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/12/06 0:00	28-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/12/06 6:00	28-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/12/06 12:00	28-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/12/06 18:00	28-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/13/06 0:00	28-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/13/06 6:00	28-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/13/06 10:55	29-1	14371	1.266	517.600	49.048	535.200	29.895	ND	ND	1.433	0.401	0.000
5/13/06 12:00	29-2	14372	1.402	516.800	49.875	535.200	29.665	ND	ND	1.454	0.396	0.000
5/13/06 18:00	29-3	14373	1.614	517.600	45.992	535.200	27.337	ND	ND	1.331	0.360	0.000
5/14/06 0:00	29-4	14374	1.653	518.400	47.523	535.200	28.884	ND	ND	1.376	0.381	0.000
5/14/06 6:00	29-5	14375	2.166	517.600	49.397	535.200	31.321	ND	ND	1.417	0.408	0.000
5/14/06 12:00	29-6	14376	1.424	517.600	53.030	535.200	33.450	ND	ND	1.548	0.448	0.000
5/14/06 18:00	29-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/15/06 0:00	29-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/15/06 6:00	29-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/15/06 12:00	29-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/15/06 18:00	29-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/16/06 0:00	29-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/16/06 6:00	29-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/16/06 12:00	29-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/16/06 18:00	29-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/17/06 0:00	29-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/17/06 6:00	29-17	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/17/06 12:00	29-18	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/17/06 18:00	29-19	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/18/06 0:00	29-20	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/18/06 6:00	29-21	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/18/06 12:00	30-1	14238	1.096	516.800	45.031	535.200	25.077	ND	ND	1.318	0.336	0.000
5/18/06 18:00	30-2	14239	1.481	517.600	45.525	535.200	24.425	ND	ND	1.321	0.321	0.000
5/19/06 0:00	30-3	14240	1.680	518.400	48.779	535.200	28.275	ND	ND	1.413	0.372	0.000
5/19/06 6:00	30-4	14241	1.303	518.400	47.094	535.200	26.199	ND	ND	1.374	0.349	0.000
5/19/06 12:00	30-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/19/06 18:00	30-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/20/06 0:00	30-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/20/06 6:00	30-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/20/06 12:00	30-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/20/06 18:00	30-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/21/06 0:00	30-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/21/06 6:00	30-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/21/06 12:00	30-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/21/06 18:00	30-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/22/06 0:00	30-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/22/06 6:00	30-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/22/06 12:00	30-17	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/22/06 18:00	30-18	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/23/06 0:00	30-19	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/23/06 6:00	30-20	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/23/06 12:00	31-1	14377	1.258	516.000	39.324	535.200	22.020	ND	ND	1.142	0.291	0.000
5/23/06 18:00	31-2	14378	1.293	516.800	32.344	535.200	18.073	ND	ND	0.932	0.235	0.000
5/24/06 0:00	31-3	14379	1.342	517.600	36.408	535.200	19.012	ND	ND	1.052	0.247	0.000
5/24/06 6:00	31-4	14380	1.396	517.600	36.186	535.200	19.812	ND	ND	1.044	0.258	0.000
5/24/06 12:00	31-5	14381	1.450	516.800	31.493	535.200	16.829	ND	ND	0.901	0.215	0.000
5/24/06 18:00	31-6	14382	1.514	516.800	30.708	535.200	15.015	ND	ND	0.876	0.189	0.000
5/25/06 0:00	31-7	14383	1.468	517.600	33.316	535.200	17.780	ND	ND	0.955	0.228	0.000
5/25/06 6:00	31-8	14384	1.519	519.200	32.478	535.200	18.858	ND	ND	0.929	0.243	0.000
5/25/06 12:00	31-9	14385	1.513	516.800	29.374	535.200	16.399	ND	ND	0.836	0.208	0.000
5/25/06 18:00	31-10	14386	1.770	516.000	29.242	535.200	16.308	ND	ND	0.824	0.204	0.000
5/25/06 6:00	31-11	14387	1.613	516.800	32.057	535.200	17.782	ND	ND	0.913	0.226	0.000
5/25/06 12:00	31-12	14388	1.801	517.600	32.317	535.200	17.629	ND	ND	0.915	0.222	0.000
5/25/06 18:00	31-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/26/06 0:00	31-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/26/06 6:00	31-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/26/06 12:00	32-1	14453	1.664	517.600	40.609	535.200	23.190	ND	ND	1.168	0.301	0.000
5/26/06 18:00	32-2	14454	1.494	517.600	35.076	535.200	21.045	ND	ND	1.007	0.274	0.000
5/27/06 0:00	32-3	14455	1.715	518.400	38.868	535.200	22.323	ND	ND	1.115	0.289	0.000
5/27/06 6:00	32-4	14456	1.897	516.800	39.416	535.200	21.197	ND	ND	1.126	0.270	0.000
5/27/06 12:00	32-5	14457	1.447	516.800	34.677	535.200	20.300	ND	ND	0.997	0.264	0.000
5/27/06 18:00	32-6	14458	1.448	516.800	28.752	535.200	16.927	ND	ND	0.819	0.217	0.000
5/28/06 0:00	32-7	14459	1.474	518.400	34.008	535.200	19.508	ND	ND	0.976	0.252	0.000
5/28/06 6:00	32-8	14460	1.421	516.800	33.366	535.200	18.263	ND	ND	0.958	0.236	0.000
5/28/06 12:00	32-9	14461	1.758	516.800	31.814	535.200	16.436	ND	ND	0.902	0.205	0.000
5/28/06 18:00	32-10	14462	2.330	517.600	29.326	535.200	16.994	ND	ND	0.810	0.205	0.000
5/29/06 0:00	32-11	14463	1.959	517.600	32.848	535.200	18.771	ND	ND	0.927	0.235	0.000
5/29/06 6:00	32-12	14464	1.728	518.400	30.331	535.200	17.275	ND	ND	0.858	0.218	0.000
5/29/06 12:00	32-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/29/06 18:00	32-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/30/06 0:00	32-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/30/06 6:00	32-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/30/06 12:00	33-1	15486	3.937	524.800	11.448	549.600	21.400	555.200	20.691	0.225	0.244	0.235
5/30/06 18:00	33-2	15487	5.053	524.800	12.250	549.600	21.554	555.200	20.793	0.216	0.231	0.220
5/31/06 0:00	33-3	15488	3.668	524.800	12.727	548.800	24.246	555.200	22.994	0.272	0.288	0.271
5/31/06 6:00	33-4	15489	3.369	524.800	12.295	549.600	23.766	555.200	22.817	0.268	0.286	0.272
5/31/06 12:00	33-5	15490	4.015	524.800	11.729	548.800	21.995	555.200	21.051	0.231	0.252	0.239
5/31/06 18:00	33-6	15491	6.582	524.800	13.889	546.400	22.071	555.200	20.853	0.219	0.217	0.200
6/1/06 0:00	33-7	15492	4.804	524.800	12.638	548.000	22.798	555.200	21.857	0.235	0.252	0.239
6/1/06 6:00	33-8	15493	4.636	524.800	12.713	547.200	22.143	555.200	21.028	0.242	0.245	0.229
6/1/06 12:00	33-9	15494	8.761	524.800	16.029	549.600	25.342	555.200	24.488	0.218	0.232	0.220
6/1/06 18:00	33-10	15495	7.698	524.800	15.430	549.600	24.315	555.200	23.532	0.232	0.233	0.222
6/2/06 0:00	33-11	15496	3.626	524.800	11.594	548.000	21.303	555.200	20.230	0.239	0.247	0.232
6/2/06 6:00	33-12	15497	4.040	524.800	12.745	547.200	23.433	555.200	22.149	0.261	0.272	0.254
6/2/06 12:00	33-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
6/2/06 18:00	33-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
6/3/06 0:00	33-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
6/3/06 6:00	33-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
6/3/06 12:00	32a-1	15369	4.412	524.800	11.057	548.800	20.769	ND	ND	0.199	0.229	0.000
6/3/06 18:00	32a-2	15370	5.024	524.800	13.098	549.600	25.980	ND	ND	0.242	0.293	0.000
6/4/06 0:00	32a-3	15371	4.061	524.800	13.769	549.600	27.911	ND	ND	0.291	0.334	0.000
6/4/06 6:00	32a-4	15372	2.918	524.800	12.995	549.600	26.235	ND	ND	0.302	0.326	0.000
6/4/06 12:00	32a-5	15373	6.764	524.800	15.248	547.200	25.851	ND	ND	0.255	0.267	0.000
6/4/06 18:00	32a-6	15374	3.839	524.800	12.176	549.600	23.477	ND	ND	0.250	0.275	0.000
6/5/06 0:00	32a-7	15375	3.316	524.800	12.935	549.600	26.964	ND	ND	0.289	0.331	0.000
6/5/06 6:00	32a-8	15376	5.851	524.800	14.481	547.200	25.269	ND	ND	0.259	0.272	0.000

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
6/5/06 12:00	32a-9	15377	3.480	524.800	12.159	548.800	23.791	ND	ND	0.260	0.284	0.000
6/5/06 18:00	32a-10	15378	4.162	524.800	12.718	549.600	23.867	ND	ND	0.257	0.276	0.000
6/6/06 0:00	32a-11	15379	6.121	524.800	15.037	549.600	26.385	ND	ND	0.267	0.284	0.000
6/6/06 6:00	32a-12	15380	4.636	524.800	13.897	549.600	26.635	ND	ND	0.278	0.308	0.000
6/6/06 12:00	33a-1	15381	3.967	524.800	11.724	549.600	22.352	ND	ND	0.233	0.257	0.000
6/6/06 18:00	33a-2	15382	3.556	524.800	11.533	549.600	22.081	ND	ND	0.239	0.259	0.000
6/7/06 0:00	33a-3	15383	4.747	524.800	13.356	549.600	24.240	ND	ND	0.258	0.273	0.000
6/7/06 6:00	33a-4	15384	3.899	524.800	13.240	548.800	25.095	ND	ND	0.280	0.297	0.000
6/7/06 12:00	33a-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/7/06 18:00	33a-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/8/06 0:00	33a-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/8/06 6:00	33a-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/8/06 12:00	33a-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/8/06 18:00	33a-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/9/06 0:00	33a-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/9/06 6:00	33a-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/9/06 12:00	34a-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/9/06 18:00	34a-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/10/06 0:00	34a-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/10/06 6:00	34a-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/10/06 12:00	34a-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/10/06 18:00	34a-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/11/06 0:00	34a-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/11/06 6:00	34a-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/11/06 12:00	34a-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/11/06 18:00	34a-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/12/06 0:00	34a-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/12/06 6:00	34a-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/12/06 12:00	34a-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/12/06 18:00	34a-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/13/06 0:00	34a-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/13/06 6:00	34a-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/13/06 12:00	34a-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/13/06 18:00	34a-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/14/06 0:00	34a-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/14/06 6:00	34a-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/14/06 12:00	34a-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/14/06 18:00	35-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/15/06 0:00	35-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/15/06 6:00	35-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
6/15/06 12:00	35-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/15/06 18:00	35-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/16/06 0:00	35-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/16/06 6:00	35-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/16/06 12:00	36-1	15414	3.742	524.800	10.788	549.600	24.138	556.000	24.899	0.211	0.286	0.296
6/16/06 18:00	36-2	15415	3.216	524.800	9.439	549.600	18.856	555.200	18.229	0.187	0.219	0.210
6/17/06 0:00	36-3	15416	9.119	524.800	16.207	549.600	25.145	555.200	24.535	0.213	0.224	0.216
6/17/06 6:00	36-4	15417	4.263	524.800	10.588	549.600	18.686	555.200	17.999	0.190	0.202	0.192
6/17/06 12:00	36-5	15418	3.516	524.800	10.294	549.600	19.782	555.200	19.337	0.203	0.228	0.221
6/17/06 18:00	36-6	15419	4.145	524.800	10.550	549.600	19.082	555.200	18.350	0.192	0.209	0.199
6/18/06 0:00	36-7	15420	8.406	524.800	15.915	549.600	26.155	555.200	25.855	0.225	0.248	0.244
6/18/06 6:00	36-8	15421	4.346	524.800	11.687	549.600	22.413	555.200	21.840	0.220	0.253	0.245
6/18/06 12:00	36-9	15422	4.310	524.800	10.998	548.000	19.287	555.200	18.237	0.201	0.210	0.195
6/18/06 18:00	36-10	15423	4.008	524.800	10.859	549.600	19.762	555.200	18.980	0.206	0.221	0.210
6/19/06 0:00	36-11	15424	5.420	524.800	12.919	548.000	22.191	555.200	21.210	0.225	0.235	0.221
6/19/06 6:00	36-12	15425	3.645	524.800	11.479	548.000	20.973	555.200	19.742	0.235	0.243	0.225
6/19/06 12:00	36-13	15426	5.207	524.800	11.835	548.800	20.074	555.200	19.192	0.199	0.208	0.196
6/19/06 18:00	36-14	15427	3.019	524.800	10.553	548.800	20.631	555.200	19.633	0.226	0.247	0.233
6/20/06 0:00	36-15	15427	3.019	524.800	10.553	548.800	20.631	555.200	19.633	0.226	0.247	0.233
6/20/06 6:00	36-16	15428	5.847	524.800	13.682	548.000	22.486	555.200	21.385	0.235	0.233	0.218
6/20/06 12:00	36-17	15429	4.939	524.800	11.200	547.200	19.010	555.200	18.105	0.188	0.197	0.184
6/20/06 18:00	37-1	15097	4.204	524.800	11.297	548.000	20.004	555.200	18.823	0.213	0.221	0.205
6/21/06 0:00	37-2	15098	5.005	524.800	11.947	547.200	20.576	555.200	19.463	0.208	0.218	0.202
6/21/06 6:00	37-3	15099	3.107	524.800	11.023	548.000	21.129	ND	ND	0.237	0.252	0.000
6/21/06 12:00	37-4	15100	4.884	524.800	12.354	547.200	21.176	555.200	19.946	0.224	0.228	0.211
6/21/06 18:00	37-5	15101	4.232	524.800	10.692	547.200	18.236	555.200	17.193	0.194	0.196	0.181
6/22/06 0:00	37-6	15102	2.902	524.800	10.407	549.600	21.408	555.200	20.877	0.225	0.259	0.252
6/22/06 6:00	37-7	15103	3.853	524.800	11.252	548.000	20.989	555.200	20.064	0.222	0.240	0.227
6/22/06 12:00	37-8	15104	4.200	524.800	11.437	548.000	20.262	ND	ND	0.217	0.225	0.000
6/22/06 18:00	37-9	15105	3.007	524.800	9.275	548.000	16.946	555.200	16.055	0.188	0.195	0.183
6/23/06 0:00	37-10	15106	4.330	524.800	11.892	548.000	21.098	555.200	19.841	0.227	0.235	0.217
6/23/06 6:00	37-11	15107	3.951	524.800	11.426	547.200	20.687	555.200	19.404	0.224	0.234	0.216
6/23/06 12:00	37-12	15108	10.575	510.400	16.119	535.200	14.474	555.200	13.707	0.166	0.055	0.044
6/23/06 18:00	38-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/24/06 0:00	38-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/24/06 6:00	38-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/24/06 12:00	38-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/24/06 18:00	38-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/25/06 0:00	38-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/25/06 6:00	38-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
6/25/06 12:00	38-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/25/06 18:00	38-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/26/06 0:00	38-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/26/06 6:00	38-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/26/06 12:00	38-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/26/06 18:00	38-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/27/06 0:00	38-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/27/06 6:00	38-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/27/06 12:00	39-1	17391	0.064	511.200	0.374	535.200	0.251	ND	ND	0.009	0.003	0.000
6/27/06 18:00	39-2	17392	0.093	514.400	1.308	535.200	0.745	ND	ND	0.036	0.009	0.000
6/28/06 0:00	39-3	17393	0.051	516.800	1.252	535.200	0.496	ND	ND	0.036	0.006	0.000
6/28/06 6:00	39-4	17394	0.061	512.800	0.884	535.200	0.349	ND	ND	0.025	0.004	0.000
6/28/06 12:00	39-5	17395	0.054	512.800	1.042	535.200	0.414	ND	ND	0.030	0.005	0.000
6/28/06 18:00	39-6	17396	0.088	516.800	1.216	535.200	0.534	ND	ND	0.034	0.006	0.000
6/29/06 0:00	39-7	17397	0.052	515.200	1.154	535.200	0.451	ND	ND	0.033	0.006	0.000
6/29/06 6:00	39-8	17398	0.073	516.000	1.111	535.200	0.434	ND	ND	0.031	0.005	0.000
6/29/06 12:00	39-9	17399	0.085	513.600	1.294	535.200	0.535	ND	ND	0.036	0.006	0.000
6/29/06 18:00	39-10	17400	0.061	516.000	1.202	535.200	0.486	ND	ND	0.034	0.006	0.000
6/30/06 0:00	39-11	17401	0.067	515.200	1.160	535.200	0.455	ND	ND	0.033	0.005	0.000
6/30/06 6:00	39-12	17402	0.045	512.800	1.010	535.200	0.348	ND	ND	0.029	0.004	0.000
6/30/06 12:00	40-1	14923	7.174	524.800	14.468	549.600	22.054	ND	ND	0.219	0.208	0.000
7/1/06 0:00	40-2	14924	17.446	524.800	30.525	549.600	39.284	ND	ND	0.392	0.306	0.000
7/1/06 12:00	40-3	14925	3.622	524.800	8.718	549.600	15.579	555.200	14.969	0.153	0.167	0.159
7/2/06 0:00	40-4	14926	16.294	524.800	36.640	547.200	45.352	555.200	43.416	0.610	0.407	0.380
7/2/06 12:00	40-5	14927	9.040	524.800	18.940	547.200	25.256	555.200	24.496	0.297	0.227	0.216
7/3/06 0:00	40-6	14928	8.770	524.800	20.483	547.200	28.910	555.200	27.585	0.351	0.282	0.263
7/3/06 12:00	40-7	14929	8.071	524.800	18.843	548.800	25.358	555.200	24.266	0.323	0.242	0.227
7/4/06 0:00	40-8	14930	6.665	524.800	13.502	549.600	22.106	555.200	22.164	0.205	0.216	0.217
7/4/06 12:00	40-9	14931	3.970	524.800	11.606	547.200	19.091	555.200	17.900	0.229	0.212	0.195
7/5/06 0:00	40-10	14932	10.442	524.800	23.285	549.600	31.634	555.200	30.800	0.385	0.297	0.285
7/5/06 12:00	40-11	14933	10.806	524.800	28.968	544.800	34.880	555.200	32.442	0.545	0.337	0.303
7/6/06 0:00	40-12	14934	13.395	524.800	26.789	549.600	34.147	555.200	33.392	0.402	0.291	0.280
7/6/06 12:00	40-13	14935	4.170	524.800	12.109	546.400	19.532	555.200	18.229	0.238	0.215	0.197
7/7/06 0:00	40-14	14936	12.803	524.800	27.881	549.600	35.269	555.200	34.537	0.452	0.315	0.304
7/7/06 12:00	40-15	14937	4.080	524.800	11.324	547.200	18.969	555.200	17.627	0.217	0.208	0.190
7/8/06 0:00	40-16	14938	13.157	524.800	37.149	544.000	43.238	555.200	39.982	0.720	0.421	0.376
7/8/06 12:00	40-17	14939	3.453	524.800	8.980	549.600	16.395	555.200	15.607	0.166	0.181	0.170
7/9/06 0:00	40-18	14940	8.607	524.800	21.163	547.200	28.257	555.200	27.337	0.377	0.275	0.262
7/9/06 12:00	40-19	14941	5.521	524.800	11.929	546.400	18.010	555.200	17.183	0.192	0.175	0.163
7/10/06 0:00	40-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
7/10/06 12:00	40-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/11/06 0:00	40-22	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/11/06 12:00	40-23	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/12/06 0:00	41-1	17808	1.084	512.800	8.521	535.200	2.911	ND	ND	0.223	0.026	0.000
7/12/06 12:00	41-2	17809	1.106	514.400	8.570	535.200	3.123	564.800	1.593	0.224	0.028	0.007
7/13/06 0:00	41-3	17810	0.979	512.800	7.393	535.200	2.730	564.800	1.393	0.192	0.025	0.006
7/13/06 12:00	41-4	17811	0.685	512.800	5.952	535.200	1.894	564.800	0.850	0.158	0.017	0.002
7/14/06 0:00	41-5	17812	0.548	512.800	5.764	535.200	1.956	ND	ND	0.156	0.020	0.000
7/14/06 12:00	41-6	17814	0.491	512.800	5.574	535.200	1.782	ND	ND	0.152	0.018	0.000
7/15/06 0:00	41-7	17813	0.629	513.600	6.894	535.200	2.297	564.800	0.898	0.188	0.023	0.004
7/15/06 12:00	41-8	17815	0.580	512.800	5.959	535.200	1.916	564.800	0.964	0.161	0.019	0.005
7/16/06 0:00	41-9	17816	0.659	513.600	5.696	535.200	1.930	564.800	1.041	0.151	0.018	0.005
7/16/06 12:00	41-10	17817	0.373	512.800	5.165	535.200	1.472	564.800	0.500	0.144	0.015	0.002
7/17/06 0:00	41-11	17818	0.455	514.400	5.009	535.200	1.562	564.800	0.704	0.137	0.015	0.003
7/17/06 12:00	41-12	17819	0.543	514.400	5.446	535.200	1.859	564.800	0.812	0.147	0.018	0.004
7/18/06 0:00	41-13	17820	0.530	514.400	4.936	535.200	1.944	564.800	0.693	0.132	0.020	0.002
7/18/06 12:00	42-1	15179	4.566	524.800	10.519	548.800	16.451	555.200	15.692	0.179	0.166	0.156
7/19/06 0:00	42-2	15180	3.072	524.800	7.175	546.400	8.370	555.200	7.978	0.123	0.074	0.069
7/19/06 12:00	42-3	15181	5.805	512.800	7.121	549.600	7.010	558.400	7.394	0.039	0.017	0.022
7/20/06 0:00	42-4	15182	2.895	524.800	5.952	549.600	7.587	555.200	7.509	0.092	0.066	0.065
7/20/06 12:00	42-5	15183	3.510	524.800	10.175	547.200	16.876	555.200	15.641	0.200	0.187	0.170
7/21/06 0:00	42-6	15184	9.229	524.800	20.339	547.200	27.709	555.200	26.451	0.333	0.259	0.241
7/21/06 12:00	42-7	15185	8.552	524.800	21.097	547.200	28.795	ND	ND	0.376	0.283	0.000
7/22/06 0:00	42-8	15186	3.286	524.800	8.934	548.800	15.330	555.200	14.559	0.169	0.169	0.158
7/22/06 12:00	42-9	15187	6.858	524.800	18.137	547.200	26.958	ND	ND	0.338	0.281	0.000
7/23/06 0:00	42-10	15188	2.728	524.800	8.603	548.800	15.710	555.200	14.990	0.176	0.182	0.172
7/23/06 12:00	42-11	15189	6.628	524.800	15.284	548.800	24.009	555.200	22.986	0.260	0.243	0.229
7/24/06 0:00	42-12	15190	7.356	524.800	16.942	548.000	24.576	555.200	23.735	0.288	0.241	0.229
7/24/06 12:00	42-13	15191	2.954	524.800	9.578	547.200	16.920	555.200	16.045	0.199	0.196	0.183
7/25/06 0:00	42-14	15192	3.860	524.800	11.395	548.000	18.332	555.200	17.277	0.226	0.203	0.188
7/25/06 12:00	43-1	15238	3.189	524.800	9.292	549.600	17.113	555.200	16.644	0.183	0.195	0.188
7/26/06 0:00	43-2	15239	3.743	524.800	9.094	549.600	15.687	555.200	15.343	0.161	0.167	0.162
7/26/06 12:00	43-3	15240	2.932	524.800	8.827	549.600	16.883	555.200	16.224	0.177	0.195	0.186
7/27/06 0:00	43-4	15241	2.808	524.800	8.519	548.800	15.687	555.200	15.177	0.171	0.180	0.173
7/27/06 12:00	43-5	15242	2.410	524.800	7.431	549.600	14.374	555.200	13.780	0.151	0.167	0.159
7/28/06 0:00	43-6	15243	2.677	524.800	8.200	549.600	16.455	555.200	15.978	0.166	0.193	0.186
7/28/06 12:00	43-7	15244	2.665	524.800	7.997	549.600	15.816	555.200	15.437	0.160	0.184	0.179
7/29/06 0:00	43-8	15245	3.635	524.800	9.249	549.600	17.551	555.200	17.240	0.168	0.195	0.190
7/29/06 12:00	43-9	15246	2.734	524.800	8.085	549.600	15.901	555.200	15.512	0.161	0.184	0.179
7/30/06 0:00	43-10	15247	3.457	524.800	9.285	549.600	17.293	555.200	16.759	0.175	0.194	0.186

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
7/30/06 12:00	43-11	15248	3.148	524.800	8.737	549.600	15.698	555.200	15.096	0.168	0.176	0.167
7/31/06 0:00	43-12	15249	3.042	524.800	8.574	548.800	15.673	555.200	14.997	0.166	0.177	0.167
7/31/06 12:00	43-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/1/06 0:00	43-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/1/06 12:00	44-1	17537	0.167	513.600	1.427	535.200	0.536	ND	ND	0.038	0.005	0.000
8/2/06 0:00	44-2	17538	0.136	514.400	1.645	535.200	0.670	ND	ND	0.045	0.007	0.000
8/2/06 12:00	44-3	17539	0.104	513.600	1.472	535.200	0.475	ND	ND	0.041	0.005	0.000
8/3/06 0:00	44-4	17540	0.243	515.200	1.595	535.200	0.710	ND	ND	0.041	0.007	0.000
8/3/06 12:00	44-5	17541	0.116	512.800	1.453	535.200	0.405	ND	ND	0.040	0.004	0.000
8/4/06 0:00	44-6	17542	0.267	515.200	1.562	536.000	0.668	ND	ND	0.039	0.006	0.000
8/4/06 12:00	44-7	17543	0.441	514.400	1.873	535.200	1.041	ND	ND	0.043	0.008	0.000
8/5/06 0:00	44-8	17544	0.207	512.000	1.656	535.200	0.586	ND	ND	0.043	0.005	0.000
8/5/06 12:00	44-9	17545	0.244	512.800	1.551	535.200	0.650	ND	ND	0.039	0.006	0.000
8/6/06 0:00	44-10	17546	0.144	515.200	1.528	535.200	0.547	ND	ND	0.042	0.006	0.000
8/6/06 12:00	44-11	17547	0.133	514.400	1.494	535.200	0.551	ND	ND	0.041	0.006	0.000
8/7/06 0:00	44-12	17548	0.168	513.600	1.440	535.200	0.550	ND	ND	0.038	0.005	0.000
8/7/06 12:00	44-13	17549	0.120	513.600	1.474	535.200	0.562	ND	ND	0.041	0.006	0.000
8/8/06 0:00	44-14	17550	0.184	513.600	1.088	535.200	0.465	ND	ND	0.027	0.004	0.000
8/8/06 12:00	44-15	17551	0.149	513.600	1.490	535.200	0.621	ND	ND	0.040	0.007	0.000
8/9/06 0:00	44-16	17552	0.204	513.600	1.455	535.200	0.585	ND	ND	0.038	0.005	0.000
8/9/06 12:00	44-17	17553	0.145	515.200	1.436	535.200	0.541	ND	ND	0.039	0.006	0.000
8/10/06 0:00	44-18	17554	0.181	514.400	1.426	535.200	0.585	ND	ND	0.037	0.006	0.000
8/10/06 12:00	45-1	16523	1.788	513.600	12.407	535.200	4.464	ND	ND	0.319	0.037	0.000
8/11/06 0:00	45-2	16524	1.600	513.600	12.457	535.200	4.385	ND	ND	0.326	0.039	0.000
8/11/06 12:00	45-3	16525	1.394	512.800	11.914	535.200	4.085	ND	ND	0.316	0.038	0.000
8/12/06 0:00	45-4	16528	1.426	513.600	11.120	535.200	3.763	ND	ND	0.291	0.033	0.000
8/12/06 12:00	45-5	16526	1.120	513.600	9.665	535.200	3.247	ND	ND	0.256	0.030	0.000
8/13/06 0:00	45-6	16527	1.560	514.400	11.151	535.200	4.506	ND	ND	0.288	0.041	0.000
8/13/06 12:00	45-7	16529	1.196	513.600	9.739	535.200	3.446	ND	ND	0.256	0.032	0.000
8/14/06 0:00	45-8	16530	1.479	514.400	9.517	535.200	3.791	ND	ND	0.241	0.032	0.000
8/14/06 12:00	45-9	16531	1.075	513.600	9.040	535.200	2.992	ND	ND	0.239	0.027	0.000
8/15/06 0:00	45-10	16532	1.569	514.400	9.377	535.200	3.932	ND	ND	0.234	0.033	0.000
8/15/06 12:00	45-11	16533	1.587	513.600	9.223	535.200	3.762	ND	ND	0.229	0.030	0.000
8/16/06 0:00	45-12	16534	1.046	514.400	7.597	535.200	2.917	ND	ND	0.197	0.026	0.000
8/16/06 12:00	45-13	16535	1.383	514.400	8.496	535.200	3.707	ND	ND	0.213	0.033	0.000
8/17/06 0:00	45-14	16536	1.051	513.600	6.836	535.200	2.614	ND	ND	0.174	0.022	0.000
8/17/06 12:00	45-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/18/06 0:00	45-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/18/06 12:00	45-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/19/06 0:00	45-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
8/19/06 12:00	45-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/20/06 0:00	45-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/20/06 12:00	45-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/21/06 0:00	45-22	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/21/06 12:00	46-1	16728	2.256	512.800	14.799	535.200	5.571	ND	ND	0.376	0.046	0.000
8/22/06 0:00	46-2	16729	1.846	511.200	17.519	535.200	6.121	ND	ND	0.470	0.060	0.000
8/22/06 12:00	46-3	16730	0.841	512.800	9.797	535.200	3.348	ND	ND	0.269	0.035	0.000
8/23/06 0:00	46-4	16731	0.821	512.800	9.554	535.200	3.396	ND	ND	0.262	0.036	0.000
8/23/06 12:00	46-5	16732	1.252	513.600	9.590	535.200	4.023	ND	ND	0.250	0.039	0.000
8/24/06 0:00	46-6	16733	1.318	513.600	8.594	535.200	3.180	ND	ND	0.218	0.026	0.000
8/24/06 12:00	46-7	16734	0.964	512.800	7.460	535.200	2.436	ND	ND	0.195	0.021	0.000
8/25/06 0:00	46-8	16735	1.753	516.800	5.770	536.000	5.585	ND	ND	0.121	0.054	0.000
8/25/06 12:00	46-9	16736	0.899	511.200	14.020	535.200	3.726	ND	ND	0.394	0.040	0.000
8/26/06 0:00	46-10	16737	1.526	512.800	7.961	535.200	3.116	ND	ND	0.193	0.022	0.000
8/26/06 12:00	46-11	16738	1.805	512.800	8.349	535.200	3.534	ND	ND	0.196	0.024	0.000
8/27/06 0:00	46-12	16739	0.991	512.000	8.674	535.200	3.023	ND	ND	0.230	0.028	0.000
8/27/06 12:00	46-13	16740	1.306	514.400	8.256	535.200	4.422	ND	ND	0.209	0.044	0.000
8/28/06 0:00	46-14	16741	0.990	512.800	7.002	535.200	2.410	ND	ND	0.180	0.020	0.000
8/28/06 12:00	46-15	16742	1.003	512.800	9.260	535.200	3.427	ND	ND	0.248	0.034	0.000
8/29/06 0:00	46-16	16743	0.924	512.800	6.646	535.200	2.972	ND	ND	0.172	0.029	0.000
8/29/06 12:00	46-17	16744	0.688	514.400	6.347	535.200	2.263	ND	ND	0.170	0.022	0.000
8/30/06 0:00	46-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/30/06 12:00	47-1	17198	0.052	514.400	0.743	535.200	0.222	ND	ND	0.021	0.002	0.000
8/31/06 0:00	47-2	17199	0.079	514.400	0.716	535.200	0.245	ND	ND	0.019	0.002	0.000
8/31/06 12:00	47-3	17200	0.042	512.000	0.740	535.200	0.183	ND	ND	0.021	0.002	0.000
9/1/06 0:00	47-4	17201	0.050	512.000	0.670	535.200	0.187	ND	ND	0.019	0.002	0.000
9/1/06 12:00	47-5	17202	0.093	515.200	0.808	535.200	0.266	ND	ND	0.021	0.002	0.000
9/2/06 0:00	47-6	17203	0.057	513.600	0.699	535.200	0.330	ND	ND	0.019	0.004	0.000
9/2/06 12:00	47-7	17204	0.063	512.000	0.917	535.200	0.334	ND	ND	0.026	0.004	0.000
9/3/06 0:00	47-8	17205	0.081	514.400	0.781	535.200	0.362	ND	ND	0.021	0.004	0.000
9/3/06 12:00	47-9	17206	0.042	513.600	0.816	535.200	0.199	ND	ND	0.023	0.002	0.000
9/4/06 0:00	47-10	17207	0.043	514.400	0.783	535.200	0.249	ND	ND	0.022	0.003	0.000
9/4/06 12:00	47-11	17208	0.059	514.400	0.767	535.200	0.239	ND	ND	0.021	0.003	0.000
9/5/06 0:00	47-12	17209	0.021	515.200	0.768	535.200	0.239	ND	ND	0.022	0.003	0.000
9/5/06 12:00	47-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/6/06 0:00	47-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/6/06 12:00	48-1	17210	0.050	514.400	0.745	535.200	0.261	ND	ND	0.021	0.003	0.000
9/7/06 0:00	48-2	17211	0.080	513.600	0.749	535.200	0.305	ND	ND	0.020	0.003	0.000
9/7/06 12:00	48-3	17212	0.101	511.200	0.725	535.200	0.245	ND	ND	0.019	0.002	0.000
9/8/06 0:00	48-4	17213	0.104	515.200	0.543	535.200	0.281	ND	ND	0.013	0.002	0.000

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
9/8/06 12:00	48-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/9/06 0:00	48-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/9/06 12:00	48-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/10/06 0:00	48-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/10/06 12:00	48-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/11/06 0:00	48-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/11/06 12:00	48-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/12/06 0:00	48-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/12/06 12:00	48-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/13/06 0:00	48-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/13/06 12:00	48-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/14/06 0:00	48-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/14/06 12:00	48-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/15/06 0:00	48-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/15/06 12:00	48-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/16/06 0:00	48-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/16/06 12:00	48-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/17/06 0:00	48-22	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/17/06 12:00	48-23	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/18/06 0:00	48-24	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/18/06 12:00	49-1	17919	0.092	514.400	1.040	535.200	0.378	ND	ND	0.028	0.004	0.000
9/19/06 0:00	49-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/19/06 12:00	49-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/20/06 0:00	49-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/20/06 12:00	49-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/21/06 0:00	49-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/21/06 12:00	49-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/22/06 0:00	49-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/22/06 12:00	49-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/23/06 0:00	49-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/23/06 12:00	49-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/24/06 0:00	49-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/24/06 12:00	49-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/25/06 0:00	49-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/25/06 12:00	49-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/26/06 0:00	49-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/26/06 12:00	49-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/27/06 0:00	49-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/27/06 12:00	49-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/28/06 0:00	49-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
9/28/06 12:00	50-2	17894	0.360	512.800	1.743	535.200	0.895	ND	ND	0.041	0.007	0.000
9/29/06 0:00	50-3	17895	0.203	512.800	1.447	535.200	0.571	ND	ND	0.037	0.005	0.000
9/29/06 12:00	50-4	17896	0.358	512.000	1.798	535.200	0.947	ND	ND	0.043	0.008	0.000
9/30/06 0:00	50-5	17897	0.307	513.600	1.486	535.200	0.730	ND	ND	0.035	0.006	0.000
9/30/06 12:00	50-6	17898	0.236	514.400	1.338	535.200	0.631	ND	ND	0.033	0.006	0.000
10/1/06 0:00	50-7	17899	0.097	513.600	1.088	535.200	0.376	ND	ND	0.030	0.004	0.000
10/1/06 12:00	50-8	17900	0.114	513.600	1.255	535.200	0.397	ND	ND	0.034	0.004	0.000
10/2/06 0:00	50-9	17901	0.140	514.400	1.076	535.200	0.417	ND	ND	0.028	0.004	0.000
10/2/06 12:00	50-10	17902	0.128	513.600	1.175	535.200	0.456	ND	ND	0.031	0.005	0.000
10/3/06 0:00	50-11	17903	0.138	514.400	1.157	535.200	0.438	ND	ND	0.031	0.004	0.000
10/3/06 12:00	50-12	17904	0.112	513.600	1.257	535.200	0.438	ND	ND	0.034	0.005	0.000
10/4/06 0:00	50-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/4/06 12:00	50-14	17905	0.123	514.400	1.102	535.200	0.415	ND	ND	0.029	0.004	0.000
10/5/06 0:00	50-15	17906	0.125	514.400	1.061	535.200	0.379	ND	ND	0.028	0.004	0.000
10/5/06 12:00	50-16	17907	0.164	513.600	1.238	535.200	0.490	ND	ND	0.032	0.005	0.000
10/6/06 0:00	50-17	17908	0.145	513.600	1.097	535.200	0.481	ND	ND	0.029	0.005	0.000
10/6/06 12:00	50-18	17909	0.204	512.800	1.223	535.200	0.578	ND	ND	0.031	0.005	0.000
10/7/06 0:00	50-19	17910	0.115	515.200	1.010	535.200	0.357	ND	ND	0.027	0.003	0.000
10/7/06 12:00	50-20	17911	0.137	512.800	1.033	535.200	0.453	ND	ND	0.027	0.004	0.000
10/8/06 0:00	50-21	17912	0.126	512.000	0.922	535.200	0.384	ND	ND	0.024	0.004	0.000
10/8/06 12:00	50-22	17913	0.128	514.400	1.027	535.200	0.389	ND	ND	0.027	0.004	0.000
10/9/06 0:00	50-23	17914	0.142	514.400	1.012	535.200	0.407	ND	ND	0.026	0.004	0.000
10/9/06 12:00	50-24	17915	0.183	512.800	1.024	535.200	0.473	ND	ND	0.025	0.004	0.000
10/10/06 12:00	51-1	16869	0.384	513.600	2.372	535.200	0.984	ND	ND	0.060	0.008	0.000
10/11/06 0:00	51-2	16870	0.492	513.600	2.553	535.200	1.131	ND	ND	0.062	0.009	0.000
10/11/06 12:00	51-3	16871	0.321	516.800	2.427	535.200	1.136	ND	ND	0.063	0.011	0.000
10/12/06 0:00	51-4	16872	0.463	513.600	2.369	535.200	1.149	ND	ND	0.057	0.010	0.000
10/12/06 12:00	51-5	16873	0.375	515.200	1.838	535.200	0.868	ND	ND	0.044	0.007	0.000
10/13/06 0:00	51-6	16874	0.258	513.600	1.858	535.200	0.738	ND	ND	0.048	0.007	0.000
10/13/06 12:00	51-7	16875	0.420	512.800	2.295	535.200	1.353	ND	ND	0.056	0.013	0.000
10/14/06 0:00	51-8	16876	0.275	515.200	1.840	535.200	0.872	ND	ND	0.047	0.008	0.000
10/14/06 12:00	51-9	16877	0.278	514.400	1.751	535.200	0.786	ND	ND	0.044	0.007	0.000
10/15/06 0:00	51-10	16878	0.318	511.200	1.972	535.200	0.832	ND	ND	0.050	0.007	0.000
10/15/06 12:00	51-11	16879	0.281	513.600	1.638	535.200	0.714	ND	ND	0.041	0.006	0.000
10/16/06 0:00	51-12	16880	0.291	515.200	1.677	535.200	0.728	ND	ND	0.042	0.006	0.000
10/16/06 12:00	51-13	16881	0.278	513.600	1.672	535.200	0.708	ND	ND	0.042	0.006	0.000
10/17/06 0:00	51-14	16882	0.243	514.400	1.618	535.200	0.704	ND	ND	0.041	0.006	0.000
10/17/06 12:00	51-15	16883	0.531	513.600	2.147	535.200	1.285	ND	ND	0.048	0.011	0.000
10/18/06 0:00	51-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/18/06 12:00	52-1	16851	0.556	512.800	3.898	535.200	2.257	ND	ND	0.100	0.024	0.000

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
10/19/06 0:00	52-2	16852	0.567	514.400	3.233	535.200	1.399	ND	ND	0.080	0.012	0.000
10/19/06 12:00	52-3	16853	0.966	514.400	3.679	535.200	2.239	ND	ND	0.081	0.018	0.000
10/20/06 0:00	52-4	16854	0.603	514.400	3.166	535.200	1.485	ND	ND	0.077	0.012	0.000
10/20/06 12:00	52-5	16855	0.770	513.600	3.366	535.200	1.767	ND	ND	0.078	0.014	0.000
10/21/06 0:00	52-6	16856	0.661	514.400	3.406	535.200	2.034	ND	ND	0.082	0.019	0.000
10/21/06 12:00	52-7	16857	0.677	514.400	3.060	535.200	1.585	ND	ND	0.071	0.013	0.000
10/22/06 0:00	52-8	16858	0.384	514.400	2.557	535.200	1.100	ND	ND	0.065	0.010	0.000
10/22/06 12:00	52-9	16859	0.649	513.600	2.931	535.200	1.433	ND	ND	0.068	0.011	0.000
10/23/06 0:00	52-10	16860	0.459	514.400	2.474	535.200	1.266	ND	ND	0.060	0.011	0.000
10/23/06 12:00	52-11	16861	0.425	513.600	2.725	535.200	1.058	ND	ND	0.069	0.009	0.000
10/24/06 0:00	52-12	16862	0.395	515.200	2.609	535.200	1.329	ND	ND	0.066	0.013	0.000
10/24/06 12:00	52-13	16863	0.390	512.800	2.380	535.200	1.033	ND	ND	0.060	0.009	0.000
10/25/06 0:00	52-14	16864	0.367	513.600	2.394	535.200	1.011	ND	ND	0.061	0.009	0.000
10/25/06 12:00	52-15	16865	0.426	516.000	2.034	535.200	0.933	ND	ND	0.048	0.007	0.000
10/26/06 0:00	52-16	16866	0.368	516.000	2.323	535.200	1.088	ND	ND	0.059	0.010	0.000
10/26/06 12:00	52-17	16867	0.415	512.800	2.225	535.200	0.980	ND	ND	0.054	0.008	0.000
10/27/06 0:00	52-18	16868	0.480	512.800	2.525	535.200	1.069	ND	ND	0.061	0.008	0.000
10/27/06 12:00	53-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/28/06 0:00	53-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/28/06 12:00	53-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/29/06 0:00	53-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/29/06 12:00	53-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/30/06 0:00	53-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/30/06 12:00	53-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/31/06 0:00	53-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/31/06 12:00	53-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/1/06 0:00	53-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/1/06 12:00	53-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/2/06 0:00	53-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/2/06 12:00	53-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/3/06 0:00	53-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/3/06 12:00	53-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/4/06 0:00	53-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/4/06 12:00	53-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/5/06 0:00	53-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/5/06 12:00	53-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/6/06 0:00	53-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/6/06 12:00	53-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/7/06 0:00	54-1	15999	0.902	512.800	8.022	535.200	2.753	ND	ND	0.214	0.026	0.000
11/7/06 12:00	54-2	16000	2.234	512.000	16.852	535.200	9.832	ND	ND	0.439	0.106	0.000

Appendix 4. SJ1 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11376	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
11/8/06 0:00	54-3	16001	1.110	514.400	9.428	535.200	4.289	ND	ND	0.250	0.045	0.000
11/8/06 12:00	54-4	16002	1.173	512.800	9.445	535.200	3.933	ND	ND	0.248	0.039	0.000
11/9/06 0:00	54-5	16002	1.173	512.800	9.445	535.200	3.933	ND	ND	0.248	0.039	0.000
11/9/06 12:00	54-6	16004	1.339	513.600	10.366	535.200	4.644	ND	ND	0.271	0.046	0.000
11/10/06 0:00	54-7	16005	1.359	514.400	8.939	535.200	5.165	ND	ND	0.227	0.053	0.000
11/10/06 12:00	54-8	16006	1.223	513.600	8.503	535.200	3.326	ND	ND	0.218	0.029	0.000
11/11/06 0:00	54-9	16007	1.081	513.600	8.764	535.200	3.682	ND	ND	0.230	0.036	0.000
11/11/06 12:00	54-10	16008	2.206	513.600	10.678	535.200	6.007	ND	ND	0.254	0.053	0.000
11/12/06 0:00	54-11	16009	1.084	512.800	8.658	535.200	3.309	ND	ND	0.227	0.031	0.000
11/12/06 12:00	54-12	16010	1.428	513.600	8.992	535.200	3.716	ND	ND	0.227	0.032	0.000
11/13/06 0:00	54-13	16012	0.862	514.400	6.744	535.200	2.550	ND	ND	0.176	0.024	0.000
11/13/06 12:00	54-14	16011	1.169	514.400	7.854	535.200	3.804	ND	ND	0.201	0.037	0.000
11/14/06 0:00	54-15	16013	0.922	512.800	7.065	535.200	3.332	ND	ND	0.184	0.034	0.000
11/14/06 12:00	54-16	16014	1.668	512.000	8.764	535.200	4.763	ND	ND	0.213	0.043	0.000
11/15/06 0:00	54-17	16015	0.956	512.800	7.189	535.200	3.353	ND	ND	0.187	0.034	0.000
11/15/06 12:00	54-18	16016	1.574	511.200	12.386	535.200	6.516	ND	ND	0.324	0.069	0.000
11/16/06 0:00	54-19	16017	1.182	512.000	8.953	535.200	4.179	ND	ND	0.233	0.042	0.000
11/16/06 12:00	55-1	15989	0.495	515.200	3.429	535.200	2.255	ND	ND	0.088	0.025	0.000
11/17/06 0:00	55-2	15990	2.232	512.000	14.809	535.200	7.697	ND	ND	0.377	0.077	0.000
11/17/06 12:00	55-3	15991	1.752	511.200	12.562	535.200	6.938	ND	ND	0.324	0.073	0.000
11/18/06 0:00	55-4	15992	1.111	513.600	8.628	535.200	4.531	ND	ND	0.226	0.048	0.000
11/18/06 12:00	55-5	15993	0.905	513.600	8.429	535.200	3.235	ND	ND	0.226	0.033	0.000
11/19/06 0:00	55-6	15994	2.300	513.600	15.330	535.200	9.807	ND	ND	0.391	0.105	0.000
11/19/06 12:00	55-7	15995	2.120	512.800	12.079	535.200	7.728	ND	ND	0.299	0.079	0.000
11/20/06 0:00	55-8	15996	0.975	513.600	7.931	535.200	3.042	ND	ND	0.209	0.029	0.000
11/20/06 12:00	55-9	15997	2.010	512.800	11.209	535.200	6.758	ND	ND	0.276	0.066	0.000
11/21/06 0:00	55-10	15998	1.677	512.800	8.972	535.200	4.384	ND	ND	0.219	0.038	0.000

Appendix 5. SJ2 spectrofluorophotometer data.

Max			*10.640*	*524.800*	*188.766*	*549.600*	*256.668*	*561.600*	*11.990*	*5.557*	*3.504*	*0.154*
Min			*0.041*	*510.400*	*1.086*	*535.200*	*0.260*	*555.200*	*1.070*	*0.000*	*0.000*	*0.000*
Count			*639*	*507*	*507*	*492*	*492*	*45*	*145*	*678*	*678*	*678*
Date Time	**Field Sampl Number**	**Lab Sample Number**	**Meas. Baseline (MEAS)**	**AY73 Wavelen (MEAS)**	**AY73 Intens (MEAS)**	**AR87 Wavelen (MEAS)**	**AR87 Intens (MEAS)**	**AR92 Wavelen (MEAS)**	**AR92 Intens (MEAS)**	**AY73 PPB (CALC)**	**AR87 PPB (CALC)**	**AR92 PPB (CALC)**
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/26/06 16:00	1-2	11427	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/26/06 20:00	1-3	11428	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 0:00	1-4	11429	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 4:00	1-5	11430	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 8:00	1-6	11431	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 12:00	1-7	11432	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 16:00	1-8	11433	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/27/06 20:00	1-9	11434	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/28/06 0:00	1-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
1/28/06 4:00	1-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
1/28/06 8:00	1-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
1/28/06 12:00	1-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
1/28/06 16:00	1-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
1/28/06 20:00	2-1	11302	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/29/06 0:00	2-2	11303	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/29/06 4:00	2-3	11304	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/29/06 8:00	2-4	11305	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/29/06 12:00	2-5	11306	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/29/06 16:00	2-6	11307	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/29/06 20:00	2-7	11308	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/30/06 0:00	2-8	11309	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/30/06 4:00	2-9	11310	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/30/06 8:00	2-10	11311	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/30/06 12:00	2-11	11312	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/30/06 16:00	2-12	11313	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/30/06 20:00	2-13	11314	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 0:00	2-14	11315	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 4:00	2-15	11316	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 8:00	2-16	11317	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 12:00	2-17	11318	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 16:00	2-18	11319	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
1/31/06 20:00	2-19	11320	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/1/06 0:00	2-20	11321	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/1/06 4:00	2-21	11322	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/1/06 8:00	2-22	11323	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/1/06 12:00	2-23	11324	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/1/06 18:00	3-1	11079	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/2/06 0:00	3-2	11080	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/2/06 6:00	3-3	11081	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/2/06 12:00	3-4	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/2/06 18:00	3-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/3/06 0:00	3-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/3/06 6:00	3-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/3/06 12:00	3-8	11082	ND	ND	ND	ND	ND	NR	ND	0.000	0.000	0.000
2/3/06 18:00	3-9	11083	ND	ND	ND	ND	ND	NR	ND	0.000	0.000	0.000
2/4/06 0:00	3-10	11084	ND	ND	ND	ND	ND	NR	ND	0.000	0.000	0.000
2/4/06 6:00	3-11	11085	ND	ND	ND	ND	ND	NR	ND	0.000	0.000	0.000
2/4/06 12:00	4-1	11379	0.999	ND	ND	ND	ND	NR	1.910	0.000	0.000	0.013
2/4/06 18:00	4-2	11380	0.999	ND	ND	ND	ND	NR	1.070	0.000	0.000	0.001
2/5/06 0:00	4-3	11381	0.999	ND	ND	ND	ND	NR	1.920	0.000	0.000	0.013
2/5/06 6:00	4-4	11382	0.999	ND	ND	ND	ND	NR	2.267	0.000	0.000	0.018
2/5/06 12:00	4-5	11383	0.999	ND	ND	ND	ND	NR	2.681	0.000	0.000	0.024
2/5/06 18:00	4-6	11384	0.999	ND	ND	ND	ND	NR	2.698	0.000	0.000	0.024
2/6/06 0:00	4-7	11385	0.999	ND	ND	ND	ND	NR	3.305	0.000	0.000	0.032
2/6/06 6:00	4-8	11386	0.999	ND	ND	ND	ND	NR	3.130	0.000	0.000	0.030
2/6/06 12:00	4-9	11387	0.999	ND	ND	ND	ND	NR	3.539	0.000	0.000	0.036
2/6/06 18:00	4-10	11388	0.999	ND	ND	ND	ND	NR	3.728	0.000	0.000	0.038
2/7/06 0:00	4-11	11389	0.999	ND	ND	ND	ND	NR	3.498	0.000	0.000	0.035
2/7/06 6:00	4-12	11390	0.999	ND	ND	ND	ND	NR	4.567	0.000	0.000	0.050
2/7/06 12:00	4-13	11391	0.999	ND	ND	ND	ND	NR	4.430	0.000	0.000	0.048
2/7/06 18:00	4-14	11392	0.999	ND	ND	ND	ND	NR	3.680	0.000	0.000	0.038
2/8/06 0:00	4-15	11393	0.999	ND	ND	ND	ND	NR	4.770	0.000	0.000	0.053
2/8/06 6:00	4-16	11394	0.999	ND	ND	ND	ND	NR	4.237	0.000	0.000	0.045
2/8/06 12:00	4-17	11395	0.999	ND	ND	ND	ND	NR	5.770	0.000	0.000	0.067
2/8/06 18:00	5-1	11650	0.999	ND	ND	ND	ND	NR	5.580	0.000	0.000	0.064
2/9/06 0:00	5-2	11651	0.999	ND	ND	ND	ND	NR	5.730	0.000	0.000	0.066
2/9/06 6:00	5-3	11652	0.999	ND	ND	ND	ND	NR	5.740	0.000	0.000	0.066
2/9/06 12:00	5-4	11653	0.999	ND	ND	ND	ND	NR	6.410	0.000	0.000	0.076
2/9/06 18:00	5-5	11654	0.999	ND	ND	ND	ND	NR	6.640	0.000	0.000	0.079
2/10/06 0:00	5-6	11655	0.999	ND	ND	ND	ND	NR	5.810	0.000	0.000	0.067
2/10/06 6:00	5-7	11656	0.999	ND	ND	ND	ND	NR	5.940	0.000	0.000	0.069
2/10/06 12:00	5-8	11657	0.999	ND	ND	ND	ND	NR	7.000	0.000	0.000	0.084
2/10/06 18:00	5-9	11658	0.999	ND	ND	ND	ND	NR	6.959	0.000	0.000	0.083

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/11/06 0:00	5-10	11659	0.999	ND	ND	ND	ND	NR	7.710	0.000	0.000	0.094
2/11/06 6:00	5-11	11660	0.999	ND	ND	ND	ND	NR	6.790	0.000	0.000	0.081
2/11/06 12:00	5-12	11661	0.999	ND	ND	ND	ND	NR	6.295	0.000	0.000	0.074
2/11/06 18:00	6-1	11901	0.999	ND	ND	ND	ND	NR	5.960	0.000	0.000	0.069
2/12/06 0:00	6-2	11902	0.999	ND	ND	ND	ND	NR	6.890	0.000	0.000	0.082
2/12/06 6:00	6-3	11903	0.999	ND	ND	ND	ND	NR	6.270	0.000	0.000	0.074
2/12/06 12:00	6-4	11904	0.999	ND	ND	ND	ND	NR	6.310	0.000	0.000	0.074
2/12/06 18:00	6-5	11905	0.999	ND	ND	ND	ND	NR	6.250	0.000	0.000	0.074
2/13/06 0:00	6-6	11906	0.999	ND	ND	ND	ND	NR	6.060	0.000	0.000	0.071
2/13/06 6:00	6-7	11907	0.999	ND	ND	ND	ND	NR	11.990	0.000	0.000	0.154
2/13/06 12:00	6-8	11908	0.999	ND	ND	ND	ND	NR	6.360	0.000	0.000	0.075
2/13/06 18:00	6-9	11909	0.999	ND	ND	ND	ND	NR	5.400	0.000	0.000	0.062
2/14/06 0:00	6-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
2/14/06 6:00	6-11	11910	0.999	ND	ND	ND	ND	NR	5.280	0.000	0.000	0.060
2/14/06 12:00	6-12	11911	0.999	ND	ND	ND	ND	NR	5.520	0.000	0.000	0.063
2/14/06 18:00	6-13	11912	0.999	ND	ND	ND	ND	NR	5.460	0.000	0.000	0.062
2/15/06 0:00	6-14	11913	0.999	ND	ND	ND	ND	NR	7.560	0.000	0.000	0.092
2/15/06 6:00	6-15	11914	0.999	ND	ND	ND	ND	NR	6.940	0.000	0.000	0.083
2/15/06 12:00	6-16	11915	0.999	ND	ND	ND	ND	NR	7.910	0.000	0.000	0.097
2/15/06 18:00	7-1	12104	0.999	ND	ND	ND	ND	NR	9.460	0.000	0.000	0.118
2/16/06 0:00	7-2	12105	0.999	ND	ND	ND	ND	NR	8.000	0.000	0.000	0.098
2/16/06 6:00	7-3	12106	0.999	ND	ND	ND	ND	NR	9.580	0.000	0.000	0.120
2/16/06 12:00	7-4	12107	0.999	ND	ND	ND	ND	NR	7.240	0.000	0.000	0.087
2/16/06 18:00	7-5	12108	0.999	ND	ND	ND	ND	NR	7.380	0.000	0.000	0.089
2/17/06 0:00	7-6	12109	0.999	ND	ND	ND	ND	NR	7.480	0.000	0.000	0.091
2/17/06 6:00	7-7	12110	0.999	ND	ND	ND	ND	NR	7.670	0.000	0.000	0.093
2/17/06 12:00	7-8	12111	0.999	ND	ND	ND	ND	NR	7.250	0.000	0.000	0.088
2/17/06 18:00	7-9	12112	0.999	ND	ND	ND	ND	NR	5.850	0.000	0.000	0.068
2/18/06 0:00	7-10	12113	0.999	ND	ND	ND	ND	NR	7.240	0.000	0.000	0.087
2/18/06 6:00	7-11	12114	0.999	ND	ND	ND	ND	NR	5.360	0.000	0.000	0.061
2/18/06 12:00	8-1	12036	0.999	ND	ND	ND	ND	NR	5.910	0.000	0.000	0.069
2/18/06 18:00	8-2	12037	0.999	ND	ND	ND	ND	NR	5.520	0.000	0.000	0.063
2/19/06 0:00	8-3	12038	0.999	ND	ND	ND	ND	NR	5.940	0.000	0.000	0.069
2/19/06 6:00	8-4	12039	0.999	ND	ND	ND	ND	NR	3.900	0.000	0.000	0.041
2/19/06 12:00	8-5	12040	0.999	ND	ND	ND	ND	NR	5.570	0.000	0.000	0.064
2/19/06 18:00	8-6	12041	0.999	ND	ND	ND	ND	NR	4.490	0.000	0.000	0.049
2/20/06 0:00	8-7	12042	0.999	ND	ND	ND	ND	NR	5.810	0.000	0.000	0.067
2/20/06 6:00	8-8	12043	0.999	ND	ND	ND	ND	NR	6.510	0.000	0.000	0.077
2/20/06 12:00	8-9	12044	0.999	ND	ND	ND	ND	NR	4.460	0.000	0.000	0.048
2/20/06 18:00	8-10	12045	0.999	ND	ND	ND	ND	NR	5.400	0.000	0.000	0.062

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/21/06 0:00	8-11	12046	0.999	ND	ND	ND	ND	NR	4.290	0.000	0.000	0.046
2/21/06 6:00	8-12	12047	0.999	ND	ND	ND	ND	NR	4.050	0.000	0.000	0.043
2/21/06 12:00	8-13	12048	0.999	ND	ND	ND	ND	NR	5.960	0.000	0.000	0.069
2/21/06 18:00	8-14	12049	0.999	ND	ND	ND	ND	NR	4.020	0.000	0.000	0.042
2/22/06 0:00	8-15	12050	0.999	ND	ND	ND	ND	NR	5.810	0.000	0.000	0.067
2/22/06 6:00	8-16	12051	0.999	ND	ND	ND	ND	NR	5.020	0.000	0.000	0.056
2/22/06 12:00	8-17	12052	0.999	ND	ND	ND	ND	NR	3.090	0.000	0.000	0.029
2/22/06 18:00	9-1	12235	0.999	ND	ND	ND	ND	NR	4.810	0.000	0.000	0.053
2/23/06 0:00	9-2	12236	0.999	ND	ND	ND	ND	NR	5.220	0.000	0.000	0.059
2/23/06 6:00	9-3	12237	0.999	ND	ND	ND	ND	NR	4.630	0.000	0.000	0.051
2/23/06 12:00	9-4	12238	0.999	ND	ND	ND	ND	NR	4.030	0.000	0.000	0.042
2/23/06 18:00	9-5	12239	0.999	ND	ND	ND	ND	NR	4.490	0.000	0.000	0.049
2/24/06 0:00	9-6	12240	0.999	ND	ND	ND	ND	NR	4.010	0.000	0.000	0.042
2/25/06 6:00	9-7	12241	0.999	ND	ND	ND	ND	NR	4.040	0.000	0.000	0.043
2/25/06 12:00	9-8	12242	0.999	ND	ND	ND	ND	NR	3.220	0.000	0.000	0.031
2/25/06 18:00	9-9	12243	0.999	ND	ND	ND	ND	NR	3.430	0.000	0.000	0.034
2/27/06 0:00	9-10	12244	0.999	ND	ND	ND	ND	NR	4.500	0.000	0.000	0.049
2/27/06 6:00	9-11	12245	0.999	ND	ND	ND	ND	NR	3.720	0.000	0.000	0.038
2/27/06 12:00	9-12	12246	0.999	ND	ND	ND	ND	NR	4.550	0.000	0.000	0.050
2/27/06 18:00	10-1	12263	0.999	ND	ND	ND	ND	NR	4.710	0.000	0.000	0.052
3/1/06 0:00	10-2	12264	0.999	ND	ND	ND	ND	NR	4.250	0.000	0.000	0.046
3/1/06 6:00	10-3	12265	0.999	ND	ND	ND	ND	NR	3.530	0.000	0.000	0.035
3/1/06 12:00	10-4	12266	0.999	ND	ND	ND	ND	NR	4.530	0.000	0.000	0.049
3/1/06 18:00	10-5	12267	0.999	ND	ND	ND	ND	NR	3.680	0.000	0.000	0.038
3/3/06 0:00	10-6	12268	0.999	ND	ND	ND	ND	NR	4.080	0.000	0.000	0.043
3/3/06 6:00	10-7	12269	0.999	ND	ND	ND	ND	NR	4.210	0.000	0.000	0.045
3/3/06 12:00	10-8	12270	0.999	ND	ND	ND	ND	NR	3.640	0.000	0.000	0.037
3/3/06 18:00	10-9	12271	0.999	ND	ND	ND	ND	NR	3.570	0.000	0.000	0.036
3/5/06 0:00	10-10	12272	0.999	ND	ND	ND	ND	NR	2.820	0.000	0.000	0.025
3/5/06 6:00	10-11	12273	0.999	ND	ND	ND	ND	NR	3.150	0.000	0.000	0.030
3/5/06 12:00	10-12	12274	0.999	ND	ND	ND	ND	NR	4.140	0.000	0.000	0.044
3/5/06 18:00	10-13	12275	0.999	ND	ND	ND	ND	NR	3.850	0.000	0.000	0.040
3/7/06 0:00	10-14	12276	0.999	ND	ND	ND	ND	NR	4.370	0.000	0.000	0.047
3/7/06 6:00	10-15	12277	0.999	ND	ND	ND	ND	NR	3.440	0.000	0.000	0.034
3/7/06 12:00	10-16	12278	0.999	ND	ND	ND	ND	NR	5.480	0.000	0.000	0.063
3/7/06 18:00	11-1	12419	0.938	ND	ND	ND	ND	555.200	2.574	0.000	0.000	0.023
3/8/06 0:00	11-2	12420	0.853	ND	ND	ND	ND	556.000	3.997	0.000	0.000	0.044
3/8/06 6:00	11-3	12421	1.075	ND	ND	ND	ND	560.000	4.826	0.000	0.000	0.053
3/8/06 12:00	11-4	12422	0.826	ND	ND	ND	ND	556.000	4.509	0.000	0.000	0.052
3/8/06 18:00	11-5	12423	1.104	ND	ND	ND	ND	560.000	5.141	0.000	0.000	0.057

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/9/06 0:00	11-6	12424	0.993	ND	ND	ND	ND	558.400	5.831	0.000	0.000	0.068
3/9/06 6:00	11-7	12425	0.964	ND	ND	ND	ND	558.400	4.296	0.000	0.000	0.047
3/9/06 12:00	11-8	12426	1.053	ND	ND	ND	ND	559.200	4.761	0.000	0.000	0.052
3/9/06 18:00	11-9	12427	1.276	ND	ND	ND	ND	558.400	5.862	0.000	0.000	0.064
3/10/06 0:00	11-10	12428	1.074	ND	ND	ND	ND	558.400	4.314	0.000	0.000	0.045
3/10/06 6:00	11-11	12429	1.156	ND	ND	ND	ND	556.800	6.187	0.000	0.000	0.070
3/10/06 12:00	11-12	12430	0.860	ND	ND	ND	ND	560.000	4.662	0.000	0.000	0.053
3/10/06 18:00	11-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/11/06 0:00	11-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/11/06 6:00	11-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/11/06 12:00	12-1	12528	0.922	ND	ND	ND	ND	557.600	3.743	0.000	0.000	0.039
3/11/06 18:00	12-2	12529	0.904	ND	ND	ND	ND	561.600	3.278	0.000	0.000	0.033
3/12/06 0:00	12-3	12530	2.845	ND	ND	ND	ND	556.000	4.145	0.000	0.000	0.018
3/12/06 6:00	12-4	12531	0.939	ND	ND	ND	ND	555.200	3.427	0.000	0.000	0.035
3/12/06 12:00	12-5	12532	1.184	ND	ND	ND	ND	560.800	3.804	0.000	0.000	0.037
3/12/06 18:00	12-6	12533	1.008	510.400	6.729	ND	ND	560.800	3.783	0.172	0.000	0.039
3/13/06 0:00	12-7	12534	1.096	ND	ND	ND	ND	560.800	3.835	0.000	0.000	0.038
3/13/06 6:00	12-8	12535	0.975	ND	ND	ND	ND	561.600	3.584	0.000	0.000	0.037
3/13/06 12:00	12-9	12536	0.970	ND	ND	ND	ND	558.400	3.562	0.000	0.000	0.036
3/13/06 18:00	12-10	12537	1.073	ND	ND	ND	ND	559.200	4.385	0.000	0.000	0.046
3/14/06 0:00	12-11	12538	0.894	511.200	5.675	ND	ND	560.800	3.394	0.143	0.000	0.035
3/14/06 6:00	12-12	12539	1.047	ND	ND	ND	ND	555.200	3.261	0.000	0.000	0.031
3/14/06 12:00	12-13	12540	0.924	ND	ND	ND	ND	555.200	4.110	0.000	0.000	0.045
3/14/06 18:00	12-14	12541	1.056	510.400	7.995	ND	ND	556.000	4.768	0.208	0.000	0.052
3/15/06 0:00	12-15	12542	1.320	510.400	7.350	ND	ND	557.600	4.095	0.181	0.000	0.039
3/15/06 6:00	12-16	12543	1.349	ND	ND	ND	ND	557.600	4.607	0.000	0.000	0.046
3/15/06 12:00	12-17	12544	1.308	ND	ND	ND	ND	557.600	4.906	0.000	0.000	0.050
3/15/06 18:00	13-1	12545	1.497	ND	ND	ND	ND	557.600	4.838	0.000	0.000	0.047
3/16/06 0:00	13-2	12546	1.402	ND	ND	ND	ND	560.000	4.745	0.000	0.000	0.047
3/16/06 6:00	13-3	12547	0.897	ND	ND	ND	ND	558.400	4.442	0.000	0.000	0.050
3/16/06 12:00	13-4	12548	1.255	ND	ND	ND	ND	556.000	5.371	0.000	0.000	0.058
3/16/06 18:00	13-5	12549	0.880	ND	ND	ND	ND	560.800	4.401	0.000	0.000	0.049
3/17/06 0:00	13-6	12550	1.140	ND	ND	ND	ND	557.600	4.553	0.000	0.000	0.048
3/17/06 6:00	13-7	12551	2.804	ND	ND	ND	ND	555.200	4.767	0.000	0.000	0.027
3/17/06 12:00	13-8	12552	1.125	510.400	7.087	ND	ND	558.400	5.071	0.179	0.000	0.055
3/17/06 18:00	13-9	12553	1.237	511.200	7.123	ND	ND	556.000	5.193	0.177	0.000	0.055
3/18/06 0:00	13-10	12554	1.078	512.000	9.569	ND	ND	557.600	5.262	0.255	0.000	0.059
3/18/06 6:00	13-11	12555	1.114	512.000	9.323	ND	ND	556.000	3.816	0.246	0.000	0.038
3/18/06 12:00	13-12	12556	0.957	513.600	10.308	ND	ND	560.000	4.161	0.281	0.000	0.045
3/18/06 18:00	13-13	12557	1.112	514.400	11.409	ND	ND	559.200	4.469	0.309	0.000	0.047

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/19/06 0:00	13-14	12558	1.019	515.200	14.622	ND	ND	556.000	4.658	0.408	0.000	0.051
3/19/06 6:00	13-15	12559	1.334	517.600	19.738	ND	ND	557.600	5.461	0.552	0.000	0.058
3/19/06 12:00	14-1	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/19/06 18:00	14-2	12491	0.831	516.800	26.873	ND	ND	558.400	5.545	0.781	0.000	0.066
3/20/06 0:00	14-3	12492	0.912	516.000	34.365	ND	ND	ND	ND	1.004	0.000	0.000
3/20/06 6:00	14-4	12493	0.841	517.600	39.818	ND	ND	ND	ND	1.169	0.000	0.000
3/20/06 12:00	14-5	12494	0.934	517.600	47.213	535.200	21.166	ND	ND	1.388	0.283	0.000
3/20/06 18:00	14-6	12495	0.991	516.800	57.565	535.200	24.393	ND	ND	1.697	0.328	0.000
3/21/06 0:00	14-7	12496	0.964	516.800	65.414	535.200	27.229	ND	ND	1.934	0.368	0.000
3/21/06 6:00	14-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/21/06 12:00	14-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/21/06 18:00	14-10	12497	0.979	516.800	88.821	535.200	46.633	ND	ND	2.635	0.639	0.000
3/22/06 0:00	14-11	12498	0.946	518.400	101.383	535.200	54.687	ND	ND	3.013	0.752	0.000
3/22/06 6:00	14-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/22/06 12:00	15-1	12953	4.870	519.200	139.036	535.200	95.605	ND	ND	4.025	1.270	0.000
3/22/06 18:00	15-2	12954	4.857	517.600	136.120	535.200	91.695	ND	ND	3.938	1.216	0.000
3/23/06 0:00	15-3	12955	4.480	517.600	150.268	535.200	103.999	ND	ND	4.374	1.393	0.000
3/23/06 6:00	15-4	12956	5.470	518.400	160.216	535.200	115.159	ND	ND	4.642	1.536	0.000
3/23/06 12:00	15-5	12957	5.036	519.200	156.725	535.200	120.070	ND	ND	4.551	1.610	0.000
3/23/06 18:00	15-6	12958	5.399	519.200	158.335	535.200	126.089	ND	ND	4.588	1.690	0.000
3/24/06 0:00	15-7	12959	5.179	519.200	174.808	538.400	138.824	ND	ND	5.089	1.871	0.000
3/24/06 6:00	15-8	12960	4.956	518.400	175.859	540.000	143.286	ND	ND	5.127	1.937	0.000
3/24/06 12:00	15-9	12961	6.380	519.200	170.661	540.000	150.532	ND	ND	4.928	2.018	0.000
3/24/06 18:00	15-10	12962	5.630	520.000	171.268	540.000	153.647	ND	ND	4.969	2.072	0.000
3/25/06 0:00	15-11	12963	5.633	520.000	175.777	540.000	165.819	ND	ND	5.104	2.243	0.000
3/25/06 6:00	15-12	12964	3.524	518.400	188.766	540.800	180.893	ND	ND	5.557	2.483	0.000
3/25/06 12:00	16-1	13024	1.430	520.000	151.469	540.800	147.997	ND	ND	4.501	2.052	0.000
3/25/06 18:00	16-2	13025	1.592	519.200	159.570	540.800	161.708	ND	ND	4.739	2.242	0.000
3/26/06 0:00	16-3	13026	1.529	518.400	176.555	540.800	187.402	ND	ND	5.251	2.602	0.000
3/26/06 6:00	16-4	13027	1.354	520.800	179.537	540.000	196.986	ND	ND	5.345	2.739	0.000
3/26/06 12:00	16-5	13028	1.463	521.600	166.462	541.600	191.789	ND	ND	4.950	2.665	0.000
3/26/06 18:00	16-6	13029	1.437	520.800	166.987	541.600	196.395	ND	ND	4.967	2.729	0.000
3/27/06 0:00	16-7	13030	1.654	520.000	179.226	540.800	211.313	ND	ND	5.327	2.935	0.000
3/27/06 6:00	16-8	13031	1.541	520.000	171.923	541.600	217.023	ND	ND	5.111	3.017	0.000
3/27/06 12:00	16-9	13032	1.399	520.000	166.130	541.600	205.017	ND	ND	4.942	2.851	0.000
3/27/06 18:00	16-10	13033	1.319	520.800	170.073	540.800	221.533	ND	ND	5.063	3.083	0.000
3/28/06 0:00	16-11	13034	1.563	521.600	177.299	542.400	231.395	ND	ND	5.272	3.218	0.000
3/28/06 6:00	16-12	13035	1.605	521.600	177.270	540.800	234.957	ND	ND	5.270	3.267	0.000
3/28/06 12:00	17-1	12908	6.117	520.000	178.594	540.800	240.437	ND	ND	5.174	3.280	0.000
3/28/06 18:00	17-2	12909	1.210	521.600	169.790	541.600	228.445	ND	ND	5.057	3.181	0.000

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/29/06 0:00	17-3	12910	1.288	524.800	165.166	541.600	244.285	ND	ND	4.916	3.402	0.000
3/29/06 6:00	17-4	12911	5.684	520.800	182.326	541.600	251.301	ND	ND	5.299	3.439	0.000
3/29/06 12:00	17-5	12912	5.335	524.800	171.531	541.600	245.791	ND	ND	4.986	3.366	0.000
3/29/06 18:00	17-6	12913	3.855	524.800	169.791	541.600	231.431	ND	ND	4.978	3.186	0.000
3/30/06 0:00	17-7	12914	1.447	524.800	180.848	542.400	245.722	ND	ND	5.382	3.420	0.000
3/30/06 6:00	17-8	12915	6.406	524.800	181.760	541.600	256.668	ND	ND	5.261	3.504	0.000
3/30/06 12:00	17-9	12916	2.582	520.800	167.977	540.800	235.641	ND	ND	4.962	3.263	0.000
3/30/06 18:00	17-10	12917	7.211	524.800	165.508	540.800	227.265	ND	ND	4.749	3.081	0.000
3/31/06 0:00	17-11	12918	6.612	524.800	173.600	541.600	238.974	ND	ND	5.010	3.253	0.000
3/31/06 6:00	17-12	12919	1.333	524.800	171.887	541.600	237.342	ND	ND	5.117	3.304	0.000
3/31/06 12:00	17-13	12920	1.301	522.400	157.544	541.600	217.988	ND	ND	4.687	3.034	0.000
3/31/06 18:00	18-1	13036	1.390	519.200	149.736	540.800	195.363	ND	ND	4.450	2.716	0.000
4/1/06 0:00	18-2	13037	1.343	521.600	160.887	541.600	213.792	ND	ND	4.786	2.974	0.000
4/1/06 6:00	18-3	13038	1.296	524.000	164.339	541.600	218.374	ND	ND	4.891	3.039	0.000
4/1/06 12:00	18-4	13039	1.276	524.000	153.712	541.600	202.007	ND	ND	4.573	2.810	0.000
4/1/06 18:00	18-5	13040	1.427	520.000	146.606	540.800	190.417	ND	ND	4.355	2.646	0.000
4/2/06 0:00	18-6	13041	1.512	519.200	165.303	540.800	212.824	ND	ND	4.914	2.958	0.000
4/2/06 6:00	18-7	13042	1.291	520.800	156.909	541.600	197.389	ND	ND	4.669	2.745	0.000
4/2/06 12:00	18-8	13043	1.386	522.400	156.337	541.600	197.146	ND	ND	4.649	2.741	0.000
4/2/06 18:00	18-9	13044	1.229	520.800	150.546	541.600	184.334	ND	ND	4.480	2.563	0.000
4/3/06 0:00	18-10	13045	1.355	519.200	153.447	541.600	196.678	ND	ND	4.563	2.735	0.000
4/3/06 6:00	18-11	13046	1.295	519.200	153.588	541.600	193.631	ND	ND	4.569	2.693	0.000
4/3/06 12:00	18-12	13047	1.198	520.800	141.495	540.800	169.083	ND	ND	4.209	2.350	0.000
4/3/06 18:00	18-13	13048	1.534	520.800	139.701	541.600	172.404	ND	ND	4.145	2.392	0.000
4/4/06 0:00	18-14	13049	1.348	520.800	155.139	540.800	187.821	ND	ND	4.614	2.611	0.000
4/4/06 6:00	18-15	13050	1.353	518.400	145.865	540.800	176.814	ND	ND	4.335	2.456	0.000
4/4/06 12:00	19-1	13565	2.378	520.000	161.036	540.800	203.420	ND	ND	4.760	2.815	0.000
4/4/06 18:00	19-2	13566	1.018	520.000	141.821	541.600	178.982	ND	ND	4.224	2.491	0.000
4/5/06 0:00	19-3	13567	1.366	521.600	146.057	541.600	182.959	ND	ND	4.341	2.542	0.000
4/5/06 6:00	19-4	13568	1.602	523.200	142.996	541.600	177.028	ND	ND	4.242	2.456	0.000
4/5/06 12:00	19-5	13569	1.130	519.200	132.154	541.600	165.777	ND	ND	3.931	2.305	0.000
4/5/06 18:00	19-6	13570	1.064	519.200	132.689	540.800	165.440	ND	ND	3.949	2.301	0.000
4/6/06 0:00	19-7	13571	1.088	520.000	136.504	541.600	167.862	ND	ND	4.062	2.335	0.000
4/6/06 6:00	19-8	13572	1.353	522.400	133.641	541.600	162.991	ND	ND	3.969	2.263	0.000
4/6/06 12:00	19-9	13573	1.062	520.800	124.391	541.600	153.739	ND	ND	3.700	2.137	0.000
4/6/06 18:00	19-10	13574	1.135	520.000	127.700	541.600	153.697	ND	ND	3.797	2.136	0.000
4/7/06 0:00	19-11	13575	1.342	519.200	131.810	540.800	159.429	ND	ND	3.914	2.213	0.000
4/7/06 6:00	19-12	13576	1.191	520.000	131.812	540.800	156.546	ND	ND	3.919	2.175	0.000
4/7/06 12:00	20-1	13439	1.361	520.000	91.505	540.800	92.871	ND	ND	2.704	1.281	0.000
4/7/06 18:00	20-2	13440	1.397	518.400	94.801	540.800	92.408	ND	ND	2.802	1.274	0.000

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/8/06 0:00	20-3	13441	1.496	520.000	101.321	540.000	97.077	ND	ND	2.995	1.338	0.000
4/8/06 6:00	20-4	13442	1.385	520.000	99.282	540.800	98.079	ND	ND	2.937	1.354	0.000
4/8/06 12:00	20-5	13443	1.285	518.400	97.208	540.800	95.769	ND	ND	2.878	1.323	0.000
4/8/06 18:00	20-6	13444	1.274	517.600	101.510	540.000	101.152	ND	ND	3.007	1.398	0.000
4/9/06 0:00	20-7	13445	1.750	518.400	106.587	540.800	107.119	ND	ND	3.145	1.475	0.000
4/9/06 6:00	20-8	13446	1.479	520.800	104.902	540.000	107.730	ND	ND	3.103	1.488	0.000
4/9/06 12:00	20-9	13447	1.292	520.000	102.879	540.800	99.190	ND	ND	3.048	1.371	0.000
4/9/06 18:00	20-10	13448	1.477	518.400	108.857	540.000	106.305	ND	ND	3.221	1.468	0.000
4/10/06 0:00	20-11	13449	1.170	518.400	108.686	540.000	107.251	ND	ND	3.225	1.485	0.000
4/10/06 6:00	20-12	13450	1.495	520.000	101.875	540.000	96.770	ND	ND	3.011	1.334	0.000
4/10/06 12:00	20-13	13451	1.617	520.000	99.570	540.000	94.614	ND	ND	2.939	1.302	0.000
4/10/06 18:00	20-14	13452	1.325	520.000	100.674	540.800	93.367	ND	ND	2.980	1.289	0.000
4/11/06 0:00	20-15	13453	1.384	519.200	108.277	540.800	99.286	ND	ND	3.207	1.371	0.000
4/11/06 6:00	20-16	13454	1.442	517.600	112.208	540.800	102.254	ND	ND	3.323	1.411	0.000
4/11/06 12:00	21-1	13611	1.445	519.200	113.437	540.000	109.962	ND	ND	3.360	1.519	0.000
4/11/06 18:00	21-2	13612	1.331	519.200	116.174	540.800	110.680	ND	ND	3.445	1.531	0.000
4/12/06 0:00	21-3	13613	1.603	519.200	120.655	540.800	113.035	ND	ND	3.572	1.560	0.000
4/12/06 6:00	21-4	13614	1.564	520.000	119.994	540.800	111.610	ND	ND	3.553	1.541	0.000
4/12/06 12:00	21-5	13615	1.524	517.600	110.187	540.800	99.977	ND	ND	3.260	1.378	0.000
4/12/06 18:00	21-6	13616	1.864	517.600	108.438	540.000	98.170	ND	ND	3.197	1.348	0.000
4/13/06 0:00	21-7	13617	1.480	518.400	115.770	540.800	102.279	ND	ND	3.429	1.411	0.000
4/13/06 6:00	21-8	13618	1.603	519.200	114.162	540.000	99.636	ND	ND	3.377	1.372	0.000
4/13/06 12:00	21-9	13619	1.728	519.200	104.422	540.000	90.478	ND	ND	3.081	1.243	0.000
4/13/06 18:00	21-10	13620	1.437	519.200	107.155	539.200	91.113	ND	ND	3.172	1.255	0.000
4/14/06 0:00	21-11	13621	1.757	518.400	112.416	540.800	93.978	ND	ND	3.320	1.291	0.000
4/14/06 6:00	21-12	13622	1.807	518.400	114.295	540.800	92.014	ND	ND	3.375	1.263	0.000
4/14/06 12:00	22-1	13623	1.192	519.200	97.920	535.200	74.999	ND	ND	2.902	1.033	0.000
4/14/06 18:00	22-2	13624	1.375	518.400	94.432	537.600	73.026	ND	ND	2.792	1.003	0.000
4/15/06 0:00	22-3	13625	1.305	518.400	107.743	535.200	77.172	ND	ND	3.193	1.062	0.000
4/15/06 6:00	22-4	13626	1.508	517.600	104.031	537.600	77.783	ND	ND	3.076	1.068	0.000
4/15/06 12:00	22-5	13627	1.236	517.600	93.222	535.200	69.339	ND	ND	2.760	0.953	0.000
4/15/06 18:00	22-6	13628	1.217	519.200	89.512	535.200	68.201	ND	ND	2.649	0.938	0.000
4/16/06 0:00	22-7	13629	1.550	520.000	99.857	535.200	74.168	ND	ND	2.949	1.017	0.000
4/16/06 6:00	22-8	13630	1.634	518.400	103.501	535.200	74.014	ND	ND	3.056	1.013	0.000
4/16/06 12:00	22-9	13631	1.490	517.600	97.268	535.200	66.281	ND	ND	2.873	0.907	0.000
4/16/06 18:00	22-10	13632	1.480	518.400	97.378	535.200	66.395	ND	ND	2.877	0.909	0.000
4/17/06 0:00	22-11	13633	1.483	518.400	98.976	535.200	70.029	ND	ND	2.925	0.960	0.000
4/17/06 6:00	22-12	13634	1.274	519.200	98.213	535.200	68.845	ND	ND	2.908	0.946	0.000
4/17/06 12:00	22-13	13635	1.437	517.600	96.800	535.200	65.253	ND	ND	2.861	0.893	0.000
4/17/06 18:00	22-14	13636	1.554	517.600	94.572	535.200	62.702	ND	ND	2.791	0.856	0.000

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/18/06 0:00	22-15	13637	1.830	517.600	100.488	535.200	67.940	ND	ND	2.960	0.926	0.000
4/18/06 6:00	22-16	13368	1.299	519.200	98.023	535.200	66.307	ND	ND	2.902	0.910	0.000
4/18/06 12:00	23-1	13553	0.851	518.400	96.674	535.200	66.666	ND	ND	2.875	0.921	0.000
4/18/06 18:00	23-2	13554	0.898	519.200	98.392	535.200	64.620	ND	ND	2.925	0.892	0.000
4/19/06 0:00	23-3	13555	0.979	517.600	106.666	535.200	65.734	ND	ND	3.171	0.907	0.000
4/19/06 6:00	23-4	13556	1.002	517.600	103.379	535.200	65.483	ND	ND	3.071	0.903	0.000
4/19/06 12:00	23-5	13557	0.853	517.600	99.249	535.200	62.940	ND	ND	2.952	0.869	0.000
4/19/06 18:00	23-6	13558	0.923	518.400	92.753	535.200	59.770	ND	ND	2.755	0.824	0.000
4/20/06 0:00	23-7	13559	1.027	518.400	100.043	535.200	64.073	ND	ND	2.970	0.883	0.000
4/20/06 6:00	23-8	13560	0.931	518.400	101.897	535.200	63.366	ND	ND	3.029	0.874	0.000
4/20/06 12:00	23-9	13561	0.998	517.600	95.030	535.200	58.086	ND	ND	2.821	0.799	0.000
4/20/06 18:00	23-10	13562	0.863	517.600	98.204	535.200	59.134	ND	ND	2.920	0.816	0.000
4/21/06 0:00	23-11	13563	1.262	518.400	96.258	535.200	60.191	ND	ND	2.850	0.825	0.000
4/21/06 6:00	23-12	13564	0.958	518.400	92.978	535.200	58.825	ND	ND	2.761	0.810	0.000
4/21/06 12:00	24-1	13639	1.270	518.400	68.326	535.200	39.061	ND	ND	2.012	0.529	0.000
4/21/06 18:00	24-2	13640	1.092	517.600	65.900	535.200	36.044	ND	ND	1.944	0.489	0.000
4/22/06 0:00	24-3	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/22/06 6:00	24-4	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/22/06 12:00	24-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/22/06 18:00	24-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/23/06 0:00	24-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/23/06 6:00	24-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/23/06 12:00	24-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/23/06 18:00	24-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/24/06 0:00	24-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/24/06 6:00	24-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/24/06 12:00	24-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/24/06 18:00	24-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/25/06 0:00	24-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/25/06 6:00	24-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/25/06 12:00	25-1	13788	0.903	518.400	72.759	535.200	40.883	ND	ND	2.156	0.560	0.000
4/25/06 18:00	25-2	13789	0.823	517.600	85.649	535.200	45.019	ND	ND	2.545	0.619	0.000
4/26/06 0:00	25-3	13790	0.843	518.400	85.407	535.200	44.582	ND	ND	2.537	0.612	0.000
4/26/06 6:00	25-4	13791	0.940	517.600	88.666	535.200	45.025	ND	ND	2.632	0.617	0.000
4/26/06 12:00	25-5	13792	0.975	517.600	87.675	535.200	45.683	ND	ND	2.601	0.626	0.000
4/26/06 18:00	25-6	13793	0.988	518.400	85.836	535.200	43.835	ND	ND	2.545	0.600	0.000
4/27/06 0:00	25-7	13794	1.201	517.600	87.286	535.200	43.089	ND	ND	2.583	0.586	0.000
4/27/06 6:00	25-8	13795	0.944	517.600	93.010	535.200	42.385	ND	ND	2.762	0.580	0.000
4/27/06 12:00	25-9	13796	0.957	517.600	85.396	535.200	41.322	ND	ND	2.533	0.565	0.000
4/27/06 18:00	25-10	13797	0.929	517.600	84.946	535.200	40.943	ND	ND	2.521	0.560	0.000

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/28/06 0:00	25-11	13798	2.269	518.400	91.890	535.200	45.785	ND	ND	2.689	0.609	0.000
4/28/06 6:00	25-12	13799	0.945	517.600	87.447	535.200	42.498	ND	ND	2.595	0.582	0.000
4/28/06 12:00	25-13	13800	1.002	518.400	90.073	535.200	40.943	ND	ND	2.672	0.559	0.000
4/28/06 18:00	26-1	13801	1.075	517.600	87.605	535.200	42.798	ND	ND	2.596	0.584	0.000
4/29/06 0:00	26-2	13802	1.133	518.400	93.479	535.200	45.317	ND	ND	2.770	0.619	0.000
4/29/06 6:00	26-3	13803	1.154	516.800	93.781	535.200	44.214	ND	ND	2.779	0.603	0.000
4/29/06 12:00	26-4	13804	1.159	518.400	86.582	535.200	43.698	ND	ND	2.563	0.596	0.000
4/29/06 18:00	26-5	13805	1.056	518.400	87.067	535.200	43.261	ND	ND	2.580	0.591	0.000
4/30/06 0:00	26-6	13806	1.076	517.600	88.206	535.200	43.904	ND	ND	2.614	0.600	0.000
4/30/06 6:00	26-7	13807	1.173	518.400	91.862	535.200	43.971	ND	ND	2.721	0.599	0.000
4/30/06 12:00	26-8	13808	1.226	517.600	92.156	535.200	40.632	ND	ND	2.728	0.552	0.000
4/30/06 18:00	26-9	13809	1.165	516.800	86.855	535.200	40.384	ND	ND	2.571	0.549	0.000
5/1/06 0:00	26-10	13810	1.176	518.400	95.479	535.200	47.549	ND	ND	2.829	0.649	0.000
5/1/06 6:00	26-11	13811	1.145	518.400	92.562	535.200	43.213	ND	ND	2.743	0.589	0.000
5/1/06 12:00	26-12	13812	1.233	517.600	91.930	535.200	41.976	ND	ND	2.721	0.570	0.000
5/1/06 18:00	26-13	13813	1.065	516.800	90.861	535.200	39.558	ND	ND	2.694	0.539	0.000
5/2/06 0:00	26-14	13814	1.395	517.600	94.730	535.200	43.114	ND	ND	2.800	0.584	0.000
5/2/06 6:00	26-15	13815	1.058	518.400	88.274	535.200	41.665	ND	ND	2.616	0.568	0.000
5/2/06 12:00	27-1	13950	1.283	518.400	100.288	535.200	47.483	ND	ND	2.970	0.647	0.000
5/2/06 18:00	27-2	13951	1.663	518.400	99.228	535.200	48.255	ND	ND	2.927	0.652	0.000
5/3/06 0:00	27-3	13952	1.658	518.400	95.971	535.200	47.152	ND	ND	2.829	0.637	0.000
5/3/06 6:00	27-4	13953	1.322	518.400	95.422	535.200	46.375	ND	ND	2.823	0.631	0.000
5/3/06 12:00	27-5	13954	1.073	517.600	96.503	535.200	43.558	ND	ND	2.863	0.595	0.000
5/3/06 18:00	27-6	13955	1.124	516.800	92.944	535.200	40.548	ND	ND	2.755	0.552	0.000
5/4/06 0:00	27-7	13956	1.487	517.600	102.172	535.200	46.652	ND	ND	3.021	0.632	0.000
5/4/06 6:00	27-8	13957	1.590	518.400	94.558	535.200	44.443	ND	ND	2.789	0.600	0.000
5/4/06 12:00	27-9	13958	1.349	516.800	92.035	535.200	44.442	ND	ND	2.721	0.603	0.000
5/4/06 18:00	27-10	13959	1.286	516.800	95.888	535.200	42.001	ND	ND	2.838	0.570	0.000
5/5/06 0:00	27-11	13960	1.143	516.800	97.753	535.200	41.891	ND	ND	2.898	0.570	0.000
5/5/06 6:00	27-12	13961	1.192	517.600	96.268	535.200	42.689	ND	ND	2.852	0.581	0.000
5/5/06 12:00	28-1	13962	0.757	519.200	88.516	535.200	41.390	ND	ND	2.633	0.569	0.000
5/5/06 18:00	28-2	13963	0.764	518.400	92.989	535.200	39.387	ND	ND	2.767	0.541	0.000
5/6/06 0:00	28-3	13964	0.817	518.400	93.703	535.200	40.749	ND	ND	2.787	0.559	0.000
5/6/06 6:00	28-4	13965	0.715	516.800	83.342	535.200	38.187	ND	ND	2.479	0.525	0.000
5/6/06 12:00	28-5	13966	0.799	517.600	91.111	535.200	37.726	ND	ND	2.709	0.517	0.000
5/6/06 18:00	28-6	13967	0.741	516.800	90.253	535.200	37.244	ND	ND	2.685	0.511	0.000
5/7/06 0:00	28-7	13968	0.723	517.600	91.880	535.200	40.164	ND	ND	2.735	0.552	0.000
5/7/06 6:00	28-8	13969	0.711	517.600	88.742	535.200	39.717	ND	ND	2.641	0.546	0.000
5/7/06 12:00	28-9	13970	0.961	516.800	89.584	535.200	37.980	ND	ND	2.659	0.518	0.000
5/7/06 18:00	28-10	13971	0.776	516.800	86.678	535.200	35.746	ND	ND	2.577	0.490	0.000

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/8/06 0:00	28-11	13972	1.120	517.600	94.411	535.200	41.584	ND	ND	2.799	0.566	0.000
5/8/06 6:00	28-12	13973	0.744	517.600	91.308	535.200	38.071	ND	ND	2.717	0.523	0.000
5/8/06 12:00	28-13	13974	0.882	517.600	88.643	535.200	40.185	ND	ND	2.633	0.550	0.000
5/8/06 18:00	28-14	13975	0.985	517.600	85.687	535.200	36.098	ND	ND	2.541	0.492	0.000
5/9/06 0:00	28-15	13976	0.815	516.800	92.337	535.200	35.764	ND	ND	2.746	0.489	0.000
5/9/06 6:00	28-16	13977	0.766	516.800	89.308	535.200	37.026	ND	ND	2.656	0.508	0.000
5/9/06 12:00	29-1	14120	7.094	517.600	100.393	535.200	44.447	ND	ND	2.799	0.523	0.000
5/9/06 18:00	29-2	14121	3.978	517.600	101.960	535.200	50.428	ND	ND	2.939	0.650	0.000
5/10/06 0:00	29-3	14122	6.746	517.600	94.210	535.200	42.356	ND	ND	2.624	0.499	0.000
5/10/06 6:00	29-4	14123	5.032	517.600	100.718	535.200	46.240	ND	ND	2.871	0.577	0.000
5/10/06 12:00	29-5	14124	5.182	516.800	90.412	535.200	39.677	ND	ND	2.557	0.483	0.000
5/10/06 18:00	29-6	14125	3.165	516.800	91.853	535.200	37.011	ND	ND	2.661	0.474	0.000
5/11/06 0:00	29-7	14126	6.058	517.600	97.187	535.200	47.863	ND	ND	2.734	0.585	0.000
5/11/06 6:00	29-8	14127	3.481	517.600	87.358	535.200	39.812	ND	ND	2.516	0.509	0.000
5/11/06 12:00	29-9	14128	1.504	517.600	87.982	535.200	40.187	ND	ND	2.594	0.542	0.000
5/11/06 18:00	29-10	14129	4.738	517.600	86.105	535.200	38.221	ND	ND	2.441	0.469	0.000
5/12/06 0:00	29-11	14130	2.788	516.800	90.509	535.200	39.925	ND	ND	2.632	0.520	0.000
5/12/06 6:00	29-12	14131	1.566	516.800	86.869	535.200	39.448	ND	ND	2.559	0.530	0.000
5/12/06 12:00	29-13	14132	1.767	517.600	83.776	535.200	37.720	ND	ND	2.460	0.503	0.000
5/12/06 18:00	29-14	14133	2.003	518.400	80.811	535.200	38.355	ND	ND	2.364	0.509	0.000
5/13/06 0:00	29-15	14134	1.539	517.600	85.163	535.200	36.701	ND	ND	2.509	0.492	0.000
5/13/06 6:00	29-16	14135	1.565	516.800	83.994	535.200	34.409	ND	ND	2.473	0.460	0.000
5/13/06 12:00	30-1	14389	1.327	518.400	72.835	535.200	32.432	ND	ND	2.145	0.435	0.000
5/13/06 18:00	30-2	14390	1.445	517.600	69.033	535.200	29.878	ND	ND	2.028	0.398	0.000
5/14/06 0:00	30-3	14391	1.350	516.800	77.119	535.200	31.120	ND	ND	2.273	0.417	0.000
5/14/06 6:00	30-4	14392	1.502	517.600	79.421	535.200	31.183	ND	ND	2.338	0.416	0.000
5/14/06 12:00	30-5	14393	1.156	516.800	70.654	535.200	30.272	ND	ND	2.085	0.408	0.000
5/14/06 18:00	30-6	14394	1.721	518.400	77.735	535.200	34.885	ND	ND	2.280	0.464	0.000
5/15/06 0:00	30-7	14395	1.259	518.400	76.712	535.200	33.460	ND	ND	2.264	0.451	0.000
5/15/06 6:00	30-8	14396	1.480	517.600	79.154	535.200	31.556	ND	ND	2.330	0.421	0.000
5/15/06 12:00	30-9	14397	1.529	517.600	73.639	535.200	28.928	ND	ND	2.163	0.384	0.000
5/15/06 18:00	30-10	14398	1.247	516.800	65.671	535.200	28.623	ND	ND	1.933	0.383	0.000
5/16/06 0:00	30-11	14399	1.230	516.800	75.967	535.200	33.737	ND	ND	2.242	0.455	0.000
5/16/06 6:00	30-12	14400	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/16/06 12:00	30-13	14401	1.394	517.600	71.590	535.200	31.983	ND	ND	2.106	0.428	0.000
5/16/06 18:00	30-14	14402	2.671	517.600	69.524	535.200	30.415	ND	ND	2.006	0.388	0.000
5/17/06 0:00	30-15	14403	1.787	516.800	79.437	535.200	31.779	ND	ND	2.330	0.420	0.000
5/17/06 6:00	30-16	14404	1.249	517.600	76.648	535.200	31.790	ND	ND	2.262	0.428	0.000
5/17/06 12:00	30-17	14405	1.743	518.400	71.149	535.200	31.685	ND	ND	2.082	0.419	0.000
5/17/06 18:00	30-18	14406	1.496	517.600	70.763	535.200	32.202	ND	ND	2.078	0.430	0.000

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/18/06 0:00	30-19	14407	1.546	517.600	78.282	535.200	32.792	ND	ND	2.302	0.437	0.000
5/18/06 6:00	30-20	14408	1.530	517.600	73.940	535.200	29.077	ND	ND	2.172	0.386	0.000
5/18/06 12:00	31-1	14409	2.624	517.600	64.572	535.200	28.634	ND	ND	1.858	0.364	0.000
5/18/06 18:00	31-2	14410	1.679	517.600	65.244	535.200	28.753	ND	ND	1.907	0.379	0.000
5/19/06 0:00	31-3	14411	1.482	517.600	73.468	535.200	31.873	ND	ND	2.160	0.425	0.000
5/19/06 6:00	31-4	14412	5.009	516.800	80.535	535.200	36.111	ND	ND	2.266	0.435	0.000
5/19/06 12:00	31-5	14413	1.755	517.600	64.168	535.200	26.099	ND	ND	1.872	0.341	0.000
5/19/06 18:00	31-6	14414	5.621	516.800	65.145	535.200	31.090	ND	ND	1.786	0.357	0.000
5/20/06 0:00	31-7	14415	1.615	518.400	75.070	535.200	32.878	ND	ND	2.204	0.438	0.000
5/20/06 6:00	31-8	14416	5.364	517.600	73.012	535.200	33.078	ND	ND	2.029	0.388	0.000
5/20/06 12:00	31-9	14417	6.334	516.800	59.169	535.200	30.889	ND	ND	1.585	0.344	0.000
5/20/06 18:00	31-10	14418	5.512	516.000	56.061	535.200	28.181	ND	ND	1.516	0.317	0.000
5/21/06 0:00	31-11	14419	5.368	516.800	66.616	535.200	31.322	ND	ND	1.837	0.363	0.000
5/21/06 6:00	31-12	14420	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/21/06 12:00	31-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/21/06 18:00	31-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/22/06 0:00	31-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N0.A	N/A
5/22/06 6:00	31-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/22/06 12:00	31-17	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/22/06 18:00	31-18	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/23/06 0:00	31-19	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/23/06 6:00	31-20	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/23/06 12:00	32-1	14421	1.966	519.200	66.490	535.200	30.922	ND	ND	1.936	0.405	0.000
5/23/06 18:00	32-2	14422	1.182	517.600	63.252	535.200	26.781	ND	ND	1.862	0.358	0.000
5/24/06 0:00	32-3	14423	1.464	517.600	69.117	535.200	26.041	ND	ND	2.030	0.344	0.000
5/24/06 6:00	32-4	14424	1.549	518.400	64.996	535.200	26.862	ND	ND	1.903	0.354	0.000
5/24/06 12:00	32-5	14425	1.354	517.600	66.086	535.200	27.775	ND	ND	1.942	0.370	0.000
5/24/06 18:00	32-6	14426	1.389	517.600	62.151	535.200	27.929	ND	ND	1.823	0.372	0.000
5/25/06 0:00	32-7	14427	2.094	517.600	64.729	535.200	28.171	ND	ND	1.879	0.365	0.000
5/25/06 6:00	32-8	14428	1.321	516.800	66.043	535.200	25.714	ND	ND	1.942	0.342	0.000
5/25/06 12:00	32-9	14429	1.465	517.600	65.340	535.200	27.511	ND	ND	1.916	0.365	0.000
5/25/06 18:00	32-10	14430	1.640	517.600	63.976	535.200	27.705	ND	ND	1.870	0.365	0.000
5/26/06 0:00	32-11	14431	3.591	518.400	61.968	535.200	28.818	ND	ND	1.751	0.353	0.000
5/26/06 6:00	32-12	14432	1.636	516.800	64.131	535.200	28.282	ND	ND	1.875	0.373	0.000
5/26/06 12:00	33-1	14433	1.603	516.800	67.119	535.200	29.370	ND	ND	1.965	0.389	0.000
5/26/06 18:00	33-2	14434	3.448	517.600	73.500	535.200	34.840	ND	ND	2.102	0.439	0.000
5/27/06 0:00	33-3	14435	3.991	517.600	70.446	535.200	33.904	ND	ND	1.994	0.419	0.000
5/27/06 6:00	33-4	14436	1.338	518.400	69.083	535.200	31.203	ND	ND	2.032	0.418	0.000
5/27/06 12:00	33-5	14437	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/27/06 18:00	33-6	14438	3.338	517.600	70.785	535.200	32.211	ND	ND	2.023	0.404	0.000

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
5/28/06 0:00	33-7	14439	1.567	517.600	71.184	535.200	27.917	ND	ND	2.089	0.369	0.000
5/28/06 6:00	33-8	14440	3.229	517.600	74.213	535.200	32.038	ND	ND	2.130	0.403	0.000
5/28/06 12:00	33-9	14441	3.642	518.400	63.062	535.200	28.901	ND	ND	1.783	0.354	0.000
5/28/06 18:00	33-10	14442	2.568	518.400	64.394	535.200	30.855	ND	ND	1.855	0.396	0.000
5/29/06 0:00	33-11	14443	3.030	516.800	69.528	535.200	30.078	ND	ND	1.995	0.379	0.000
5/29/06 6:00	33-12	14444	2.280	516.800	65.125	535.200	27.935	ND	ND	1.885	0.359	0.000
5/29/06 12:00	33-13	14445	1.486	517.600	66.595	535.200	27.764	ND	ND	1.953	0.368	0.000
5/29/06 18:00	33-14	14446	2.319	517.600	64.695	535.200	28.750	ND	ND	1.871	0.370	0.000
5/30/06 0:00	33-15	14447	1.452	517.600	67.211	535.200	29.070	ND	ND	1.973	0.387	0.000
5/30/06 6:00	33-16	14448	1.807	517.600	68.672	535.200	30.156	ND	ND	2.006	0.397	0.000
5/30/06 12:00	34-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/30/06 18:00	34-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/31/06 0:00	34-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/31/06 6:00	34-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/31/06 12:00	34-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/31/06 18:00	34-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/1/06 0:00	34-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/1/06 6:00	34-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/1/06 12:00	34-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/1/06 18:00	34-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/2/06 0:00	34-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/2/06 6:00	34-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/2/06 12:00	34-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/2/06 18:00	34-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/3/06 0:00	34-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/3/06 6:00	34-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/3/06 12:00	35-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/3/06 18:00	35-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/4/06 0:00	35-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/4/06 6:00	35-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/4/06 12:00	35-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/4/06 18:00	35-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/5/06 0:00	35-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/5/06 6:00	35-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/5/06 12:00	35-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/5/06 18:00	35-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/6/06 0:00	35-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/6/06 6:00	35-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/6/06 12:00	34a-1	15474	3.785	524.800	17.068	548.000	34.000	ND	ND	0.398	0.423	0.000
6/6/06 18:00	34a-2	15475	4.142	524.800	16.677	548.800	33.580	ND	ND	0.376	0.412	0.000

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
6/7/06 0:00	34a-3	15476	4.830	524.800	17.886	549.600	36.222	ND	ND	0.392	0.439	0.000
6/7/06 6:00	34a-4	15477	3.191	524.800	17.146	548.800	35.605	ND	ND	0.419	0.454	0.000
6/7/06 12:00	34a-5	15478	3.961	524.800	17.060	548.800	35.130	ND	ND	0.393	0.436	0.000
6/7/06 18:00	34a-6	15479	4.994	524.800	17.411	548.800	34.384	ND	ND	0.373	0.411	0.000
6/8/06 0:00	34a-7	15480	4.184	524.800	17.107	549.600	36.135	ND	ND	0.388	0.447	0.000
6/8/06 6:00	34a-8	15481	3.395	524.800	17.025	549.600	36.330	ND	ND	0.409	0.461	0.000
6/8/06 12:00	34a-9	15482	3.356	524.800	15.094	548.800	31.720	ND	ND	0.352	0.397	0.000
6/8/06 18:00	34a-10	15483	3.418	524.800	15.977	549.600	34.369	ND	ND	0.377	0.433	0.000
6/9/06 0:00	34a-11	15484	4.105	524.800	17.395	548.800	35.949	ND	ND	0.399	0.446	0.000
6/9/06 6:00	34a-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/9/06 12:00	35a-1	18118	0.202	513.600	4.192	535.200	1.142	ND	ND	0.120	0.013	0.000
6/9/06 18:00	35a-2	18119	0.232	512.800	4.239	535.200	1.323	ND	ND	0.120	0.015	0.000
6/10/06 0:00	35a-3	18120	0.211	512.800	4.232	535.200	1.229	ND	ND	0.121	0.014	0.000
6/10/06 6:00	35a-4	18121	0.265	512.800	4.446	535.200	1.468	ND	ND	0.125	0.017	0.000
6/10/06 12:00	35a-5	18122	0.198	513.600	3.978	535.200	1.120	ND	ND	0.113	0.013	0.000
6/10/06 18:00	35a-6	18123	0.294	513.600	3.964	535.200	1.521	ND	ND	0.110	0.017	0.000
6/11/06 0:00	35a-7	18124	0.205	514.400	3.923	535.200	1.558	ND	ND	0.112	0.019	0.000
6/11/06 6:00	35a-8	18125	0.258	513.600	4.038	535.200	1.291	ND	ND	0.113	0.014	0.000
6/11/06 12:00	35a-9	18126	0.260	514.400	3.911	535.200	1.412	ND	ND	0.110	0.016	0.000
6/11/06 18:00	35a-10	18127	0.184	513.600	3.359	535.200	1.047	ND	ND	0.095	0.012	0.000
6/12/06 0:00	35a-11	18128	0.154	514.400	3.728	535.200	1.058	ND	ND	0.107	0.013	0.000
6/12/06 6:00	35a-12	18129	0.278	512.800	3.690	535.200	1.211	ND	ND	0.102	0.013	0.000
6/12/06 12:00	35a-13	18130	0.158	514.400	3.538	535.200	1.091	ND	ND	0.101	0.013	0.000
6/12/06 18:00	35a-14	18131	0.278	514.400	3.419	535.200	1.405	ND	ND	0.094	0.016	0.000
6/13/06 0:00	35a-15	18132	0.188	513.600	3.627	535.200	1.151	ND	ND	0.103	0.013	0.000
6/13/06 6:00	35a-16	18133	0.162	513.600	3.201	535.200	0.962	ND	ND	0.091	0.011	0.000
6/13/06 12:00	35a-17	18134	0.204	513.600	3.408	535.200	1.012	ND	ND	0.096	0.011	0.000
6/13/06 18:00	35a-18	18135	0.171	514.400	3.226	535.200	0.975	ND	ND	0.092	0.011	0.000
6/14/06 0:00	35a-19	18136	0.191	512.800	3.281	535.200	1.011	ND	ND	0.093	0.011	0.000
6/14/06 6:00	35a-20	18137	0.199	512.800	3.188	535.200	1.009	ND	ND	0.090	0.011	0.000
6/14/06 12:00	35a-21	18138	0.251	514.400	3.398	535.200	1.258	ND	ND	0.094	0.014	0.000
6/14/06 18:00	36-1	18139	0.187	514.400	3.094	535.200	0.914	ND	ND	0.087	0.010	0.000
6/15/06 0:00	36-2	18140	0.218	513.600	3.058	535.200	0.966	ND	ND	0.085	0.010	0.000
6/15/06 6:00	36-3	18141	0.183	513.600	3.050	535.200	0.933	ND	ND	0.086	0.011	0.000
6/15/06 12:00	36-4	18142	0.253	514.400	2.926	535.200	0.996	ND	ND	0.080	0.010	0.000
6/15/06 18:00	36-5	18143	0.179	515.200	2.989	535.200	0.965	ND	ND	0.084	0.011	0.000
6/16/06 0:00	36-6	18144	0.212	513.600	2.971	535.200	0.901	ND	ND	0.083	0.010	0.000
6/16/06 6:00	36-7	18145	0.172	514.400	2.810	535.200	0.816	ND	ND	0.079	0.009	0.000
6/16/06 12:00	37-1	15397	4.255	524.800	15.069	548.000	28.419	ND	ND	0.324	0.338	0.000
6/16/06 18:00	37-2	15398	4.610	524.800	15.524	548.800	29.414	ND	ND	0.327	0.347	0.000

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
6/17/06 0:00	37-3	15399	3.687	524.800	14.310	549.600	28.731	ND	ND	0.319	0.351	0.000
6/17/06 6:00	37-4	15400	4.092	524.800	15.132	548.000	28.703	ND	ND	0.331	0.345	0.000
6/17/06 12:00	37-5	15401	4.826	524.800	15.354	548.800	29.589	ND	ND	0.316	0.347	0.000
6/17/06 18:00	37-6	15402	3.631	524.800	13.769	549.600	27.593	ND	ND	0.304	0.335	0.000
6/18/06 0:00	37-7	15403	4.735	524.800	15.192	549.600	29.627	ND	ND	0.314	0.348	0.000
6/18/06 6:00	37-8	15404	3.425	524.800	13.029	548.800	26.285	ND	ND	0.288	0.320	0.000
6/18/06 12:00	37-9	15405	4.244	524.800	14.753	548.800	29.068	ND	ND	0.315	0.348	0.000
6/18/06 18:00	37-10	15406	4.331	524.800	14.711	549.600	29.222	ND	ND	0.311	0.348	0.000
6/19/06 0:00	37-11	15407	4.422	524.800	15.397	548.800	30.044	ND	ND	0.329	0.359	0.000
6/19/06 6:00	37-12	15408	7.754	524.800	19.995	549.600	36.915	ND	ND	0.367	0.408	0.000
6/19/06 12:00	37-13	15409	3.244	524.800	13.905	548.800	28.503	ND	ND	0.320	0.354	0.000
6/19/06 18:00	37-14	15410	3.357	524.800	13.869	548.800	28.274	ND	ND	0.315	0.349	0.000
6/20/06 0:00	37-15	15411	3.680	524.800	14.846	548.000	30.211	ND	ND	0.335	0.371	0.000
6/20/06 6:00	37-16	15412	3.402	524.800	14.246	548.800	29.174	ND	ND	0.325	0.361	0.000
6/20/06 12:00	37-17	15413	3.922	524.800	15.307	549.600	30.183	ND	ND	0.342	0.368	0.000
6/20/06 18:00	38-1	15074	3.738	524.800	16.145	548.000	29.970	ND	ND	0.372	0.367	0.000
6/21/06 0:00	38-2	15075	3.324	524.800	16.682	548.000	32.678	ND	ND	0.401	0.411	0.000
6/21/06 6:00	38-3	15076	3.180	524.800	16.145	548.800	31.454	ND	ND	0.389	0.396	0.000
6/21/06 12:00	38-4	15077	3.510	524.800	16.178	548.000	31.645	ND	ND	0.380	0.394	0.000
6/21/06 18:00	38-5	15078	3.614	524.800	15.756	548.000	30.414	ND	ND	0.364	0.375	0.000
6/22/06 0:00	38-6	15079	3.306	524.800	16.444	548.000	32.030	ND	ND	0.394	0.402	0.000
6/22/06 6:00	38-7	15080	3.857	524.800	17.082	547.200	32.418	ND	ND	0.397	0.400	0.000
6/22/06 12:00	38-8	15081	3.375	524.800	16.533	547.200	31.501	ND	ND	0.395	0.394	0.000
6/22/06 18:00	38-9	15082	3.400	524.800	15.633	548.800	30.994	ND	ND	0.367	0.386	0.000
6/23/06 0:00	38-10	15083	3.138	524.800	15.982	548.800	31.818	ND	ND	0.385	0.402	0.000
6/23/06 6:00	38-11	15084	3.146	524.800	15.998	548.000	31.140	ND	ND	0.386	0.392	0.000
6/23/06 12:00	39-1	15003	3.975	524.800	16.949	548.000	32.342	ND	ND	0.389	0.397	0.000
6/23/06 18:00	39-2	15004	3.659	524.800	16.391	547.200	31.402	ND	ND	0.382	0.388	0.000
6/24/06 0:00	39-3	15004	3.659	524.800	16.391	547.200	31.402	ND	ND	0.382	0.388	0.000
6/24/06 6:00	39-4	15005	1.660	524.800	2.205	549.600	6.781	ND	ND	0.016	0.072	0.000
6/24/06 12:00	39-5	15006	3.441	524.800	15.260	548.000	30.589	ND	ND	0.355	0.380	0.000
6/24/06 18:00	39-6	15007	3.751	524.800	14.705	548.800	29.407	ND	ND	0.329	0.359	0.000
6/25/06 0:00	39-7	15008	3.359	524.800	15.253	548.800	31.391	ND	ND	0.357	0.392	0.000
6/25/06 6:00	39-8	15009	3.433	524.800	16.091	548.000	32.731	ND	ND	0.380	0.410	0.000
6/25/06 12:00	39-9	15010	4.726	524.800	15.926	548.000	30.213	ND	ND	0.336	0.357	0.000
6/25/06 18:00	39-10	15011	4.072	524.800	14.639	548.000	28.372	ND	ND	0.317	0.340	0.000
6/26/06 0:00	39-11	15012	5.087	524.800	13.019	548.000	21.259	ND	ND	0.238	0.226	0.000
6/26/06 6:00	39-12	15013	4.509	524.800	16.068	549.600	32.826	ND	ND	0.347	0.396	0.000
6/26/06 12:00	39-13	15014	3.515	524.800	14.052	549.600	28.521	ND	ND	0.316	0.350	0.000
6/26/06 18:00	39-14	15015	4.223	524.800	15.627	548.000	29.595	ND	ND	0.342	0.355	0.000

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
6/27/06 0:00	39-15	15016	5.161	524.800	17.470	548.800	32.765	ND	ND	0.369	0.386	0.000
6/27/06 6:00	39-16	15017	3.610	524.800	16.038	548.800	31.442	ND	ND	0.373	0.390	0.000
6/27/06 12:00	40-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/27/06 18:00	40-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/28/06 0:00	40-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/28/06 6:00	40-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/28/06 12:00	40-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/28/06 18:00	40-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/29/06 0:00	40-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/29/06 6:00	40-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/29/06 12:00	40-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/29/06 18:00	40-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/30/06 0:00	40-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/30/06 6:00	40-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/30/06 12:00	41-1	17235	2.293	512.800	27.762	535.200	8.661	ND	ND	0.764	0.089	0.000
7/1/06 0:00	41-2	17236	2.220	513.600	27.116	535.200	8.046	ND	ND	0.747	0.082	0.000
7/1/06 12:00	41-3	17237	2.251	513.600	26.601	535.200	7.796	ND	ND	0.731	0.078	0.000
7/2/06 0:00	41-4	17238	1.698	514.400	27.536	535.200	10.407	ND	ND	0.775	0.122	0.000
7/2/06 12:00	41-5	17239	4.570	512.000	49.939	535.200	15.701	ND	ND	1.361	0.156	0.000
7/3/06 0:00	41-6	17240	2.183	513.600	24.844	535.200	8.134	ND	ND	0.680	0.083	0.000
7/3/06 12:00	41-7	17241	1.495	513.600	23.541	535.200	6.291	ND	ND	0.661	0.067	0.000
7/4/06 0:00	41-8	17242	1.043	513.600	16.151	535.200	3.904	ND	ND	0.453	0.040	0.000
7/4/06 12:00	41-9	17243	0.811	512.800	18.348	535.200	4.269	ND	ND	0.526	0.048	0.000
7/5/06 0:00	41-10	17244	4.275	512.800	46.882	535.200	14.328	ND	ND	1.278	0.141	0.000
7/5/06 12:00	41-11	17245	1.520	512.800	18.461	535.200	5.282	ND	ND	0.508	0.053	0.000
7/6/06 0:00	41-12	17246	1.108	513.600	17.344	535.200	4.776	ND	ND	0.487	0.051	0.000
7/6/06 12:00	41-13	17247	1.257	513.600	13.684	535.200	4.090	ND	ND	0.373	0.040	0.000
7/7/06 0:00	41-14	17248	0.992	513.600	14.040	535.200	3.949	ND	ND	0.391	0.041	0.000
7/7/06 12:00	41-15	17249	0.819	512.800	9.762	535.200	2.778	ND	ND	0.268	0.027	0.000
7/8/06 0:00	41-16	17250	4.430	514.400	16.093	536.000	9.683	ND	ND	0.350	0.074	0.000
7/8/06 12:00	41-17	17251	0.856	513.600	11.659	535.200	3.627	ND	ND	0.324	0.039	0.000
7/9/06 0:00	41-18	17252	0.554	513.600	9.249	535.200	2.418	ND	ND	0.261	0.026	0.000
7/9/06 12:00	41-19	17253	1.247	514.400	10.562	535.200	3.751	ND	ND	0.279	0.035	0.000
7/10/06 0:00	41-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/10/06 12:00	41-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/11/06 0:00	41-22	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/11/06 12:00	41-23	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/12/06 0:00	42-1	17795	1.916	513.600	22.261	535.200	5.829	ND	ND	0.610	0.055	0.000
7/12/06 12:00	42-2	17796	1.424	512.800	20.916	535.200	4.513	ND	ND	0.585	0.043	0.000
7/13/06 0:00	42-3	17797	1.328	513.600	20.988	535.200	4.542	ND	ND	0.590	0.045	0.000

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
7/13/06 12:00	42-4	17798	2.042	512.800	20.374	535.200	5.407	ND	ND	0.550	0.047	0.000
7/14/06 0:00	42-5	17800	1.139	512.800	16.650	535.200	3.853	ND	ND	0.465	0.038	0.000
7/14/06 12:00	42-6	17799	0.991	512.800	16.911	535.200	3.783	ND	ND	0.478	0.039	0.000
7/15/06 0:00	42-7	17801	1.305	514.400	18.051	535.200	4.778	ND	ND	0.502	0.049	0.000
7/15/06 12:00	42-8	17802	1.392	513.600	16.304	535.200	4.388	ND	ND	0.447	0.042	0.000
7/16/06 0:00	42-9	17803	1.244	512.800	15.021	535.200	3.783	ND	ND	0.413	0.036	0.000
7/16/06 12:00	42-10	17804	1.361	513.600	14.898	535.200	4.169	ND	ND	0.406	0.039	0.000
7/17/06 0:00	42-11	17805	1.300	512.800	15.429	535.200	4.430	ND	ND	0.424	0.044	0.000
7/17/06 12:00	42-12	17806	1.189	513.600	13.734	535.200	3.805	ND	ND	0.376	0.037	0.000
7/18/06 0:00	42-13	17807	1.510	514.400	14.584	535.200	4.386	ND	ND	0.392	0.040	0.000
7/18/06 12:00	43-1	15151	4.237	524.800	15.030	547.200	27.121	ND	ND	0.324	0.320	0.000
7/19/06 0:00	43-2	15152	3.609	524.800	14.606	547.200	26.722	ND	ND	0.330	0.324	0.000
7/19/06 12:00	43-3	15153	2.855	524.800	14.584	546.400	26.076	ND	ND	0.352	0.325	0.000
7/20/06 0:00	43-4	15154	4.260	524.800	15.917	547.200	27.681	ND	ND	0.350	0.328	0.000
7/20/06 12:00	43-5	15155	6.976	524.800	17.920	549.600	30.543	ND	ND	0.328	0.330	0.000
7/21/06 0:00	43-6	15156	3.349	524.800	14.627	547.200	27.228	ND	ND	0.338	0.334	0.000
7/21/06 12:00	43-7	15157	3.725	524.800	13.893	548.800	27.728	ND	ND	0.305	0.336	0.000
7/22/06 0:00	43-8	15158	2.924	524.800	12.751	548.000	25.004	ND	ND	0.295	0.309	0.000
7/22/06 12:00	43-9	15159	4.530	524.800	14.706	548.800	25.969	ND	ND	0.305	0.300	0.000
7/23/06 0:00	43-10	15160	4.988	524.800	14.413	548.800	26.349	ND	ND	0.283	0.299	0.000
7/23/06 12:00	43-11	15161	5.794	524.800	15.918	548.000	27.627	ND	ND	0.304	0.306	0.000
7/24/06 0:00	43-12	15162	10.640	524.800	20.525	549.600	31.415	ND	ND	0.297	0.291	0.000
7/24/06 12:00	43-13	15163	5.597	524.800	15.283	548.800	26.657	ND	ND	0.291	0.295	0.000
7/25/06 0:00	43-14	15164	4.668	524.800	13.862	548.800	24.577	ND	ND	0.276	0.279	0.000
7/25/06 12:00	44-1	15275	4.034	524.800	15.854	546.400	27.853	ND	ND	0.355	0.333	0.000
7/26/06 0:00	44-2	15276	3.025	524.800	13.749	547.200	23.964	ND	ND	0.322	0.293	0.000
7/26/06 12:00	44-3	15277	2.856	524.800	14.377	546.400	26.179	ND	ND	0.346	0.327	0.000
7/27/06 0:00	44-4	15278	2.978	524.800	11.971	549.600	23.904	ND	ND	0.270	0.293	0.000
7/27/06 12:00	44-5	15279	4.186	524.800	15.031	547.200	25.892	ND	ND	0.325	0.304	0.000
7/28/06 0:00	44-6	15280	3.217	524.800	12.203	548.800	24.474	ND	ND	0.270	0.298	0.000
7/28/06 12:00	44-7	15281	3.011	524.800	12.975	548.800	26.263	ND	ND	0.299	0.326	0.000
7/29/06 0:00	44-8	15282	3.080	524.800	11.894	548.800	23.293	ND	ND	0.264	0.283	0.000
7/29/06 12:00	44-9	15283	3.376	524.800	12.540	549.600	24.177	ND	ND	0.275	0.291	0.000
7/30/06 0:00	44-10	15284	2.793	524.800	11.930	548.800	23.587	ND	ND	0.274	0.291	0.000
7/30/06 12:00	44-11	15285	2.957	524.800	11.914	548.800	23.791	ND	ND	0.269	0.292	0.000
7/31/06 0:00	44-12	15286	2.644	524.800	11.098	548.800	21.728	ND	ND	0.254	0.267	0.000
7/31/06 12:00	44-13	15287	3.670	524.800	12.226	548.800	24.011	ND	ND	0.257	0.285	0.000
8/1/06 0:00	44-14	15288	4.444	524.800	13.126	549.600	24.430	ND	ND	0.260	0.280	0.000
8/1/06 12:00	45-1	17555	0.177	512.800	2.385	535.200	0.570	ND	ND	0.066	0.006	0.000
8/2/06 0:00	45-2	17556	0.061	513.600	2.026	535.200	0.381	ND	ND	0.059	0.004	0.000

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
8/2/06 12:00	45-3	17557	0.145	512.000	2.057	535.200	0.603	ND	ND	0.057	0.006	0.000
8/3/06 0:00	45-4	17558	0.143	514.400	2.064	535.200	0.544	ND	ND	0.058	0.006	0.000
8/3/06 12:00	45-5	17559	0.118	512.000	2.042	535.200	0.497	ND	ND	0.058	0.005	0.000
8/4/06 0:00	45-6	17560	0.107	512.800	2.075	535.200	0.460	ND	ND	0.059	0.005	0.000
8/4/06 12:00	45-7	17561	0.133	513.600	2.159	535.200	0.536	ND	ND	0.061	0.006	0.000
8/5/06 0:00	45-8	17562	0.176	512.000	2.050	535.200	0.591	ND	ND	0.056	0.006	0.000
8/5/06 12:00	45-9	17563	0.131	513.600	2.102	535.200	0.526	ND	ND	0.059	0.006	0.000
8/6/06 0:00	45-10	17564	0.119	513.600	1.997	535.200	0.526	ND	ND	0.056	0.006	0.000
8/6/06 12:00	45-11	17565	0.133	513.600	2.041	535.200	0.548	ND	ND	0.057	0.006	0.000
8/7/06 0:00	45-12	17566	0.080	514.400	1.841	535.200	0.439	ND	ND	0.053	0.005	0.000
8/7/06 12:00	45-13	17567	0.176	513.600	2.060	535.200	0.571	ND	ND	0.057	0.006	0.000
8/8/06 0:00	45-14	17568	0.128	512.800	1.888	535.200	0.450	ND	ND	0.053	0.005	0.000
8/8/06 12:00	45-15	17569	0.144	513.600	1.958	535.200	0.531	ND	ND	0.054	0.005	0.000
8/9/06 0:00	45-16	17570	0.146	512.800	1.770	535.200	0.517	ND	ND	0.049	0.005	0.000
8/9/06 12:00	45-17	17571	0.160	514.400	1.852	535.200	0.534	ND	ND	0.051	0.005	0.000
8/10/06 0:00	45-18	17572	0.094	512.800	1.717	535.200	0.447	ND	ND	0.049	0.005	0.000
8/10/06 12:00	46-1	16481	0.161	512.800	2.497	535.200	0.573	ND	ND	0.070	0.006	0.000
8/11/06 0:00	46-2	16483	2.064	513.600	19.663	535.200	5.657	ND	ND	0.528	0.050	0.000
8/11/06 12:00	46-3	16482	1.443	513.600	19.606	535.200	4.870	ND	ND	0.545	0.048	0.000
8/12/06 0:00	46-4	16484	1.520	512.800	21.317	535.200	5.292	ND	ND	0.594	0.053	0.000
8/12/06 12:00	46-5	16485	2.504	512.800	20.683	535.200	7.048	ND	ND	0.545	0.064	0.000
8/13/06 0:00	46-6	16486	1.530	512.800	19.013	535.200	5.336	ND	ND	0.524	0.053	0.000
8/13/06 12:00	46-7	16487	1.706	513.600	18.008	535.200	5.766	ND	ND	0.489	0.057	0.000
8/14/06 0:00	46-8	16488	1.701	513.600	18.137	535.200	5.105	ND	ND	0.493	0.048	0.000
8/14/06 12:00	46-9	16489	1.369	513.600	17.408	535.200	4.615	ND	ND	0.481	0.045	0.000
8/15/06 0:00	46-10	16490	1.468	513.600	16.116	535.200	4.832	ND	ND	0.439	0.047	0.000
8/15/06 12:00	46-11	16491	1.348	512.800	15.011	535.200	3.894	ND	ND	0.410	0.036	0.000
8/16/06 0:00	46-12	16492	1.360	513.600	15.015	535.200	4.432	ND	ND	0.410	0.043	0.000
8/16/06 12:00	46-13	16493	1.273	513.600	14.466	535.200	4.024	ND	ND	0.396	0.039	0.000
8/17/06 0:00	46-14	16494	1.224	513.600	13.747	535.200	3.749	ND	ND	0.376	0.035	0.000
8/17/06 12:00	46-15	16495	1.822	513.600	16.504	535.200	5.451	ND	ND	0.440	0.051	0.000
8/18/06 0:00	46-16	16496	1.850	513.600	20.048	535.200	5.427	ND	ND	0.546	0.050	0.000
8/18/06 12:00	46-17	16497	1.642	514.400	20.458	535.200	5.809	ND	ND	0.564	0.058	0.000
8/19/06 0:00	46-18	16498	1.890	512.800	17.920	535.200	4.906	ND	ND	0.481	0.042	0.000
8/19/06 12:00	46-19	16499	1.525	513.600	17.525	535.200	4.594	ND	ND	0.480	0.043	0.000
8/20/06 0:00	46-20	16500	2.065	513.600	16.553	535.200	5.128	ND	ND	0.435	0.043	0.000
8/20/06 12:00	46-21	16501	1.115	513.600	14.338	535.200	3.893	ND	ND	0.397	0.039	0.000
8/21/06 0:00	46-22	16502	1.282	513.600	14.320	535.200	3.857	ND	ND	0.391	0.036	0.000
8/21/06 12:00	47-1	16715	1.794	512.800	20.587	535.200	6.414	ND	ND	0.564	0.065	0.000
8/22/06 0:00	47-2	16716	2.052	513.600	20.818	535.200	5.732	ND	ND	0.563	0.052	0.000

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
8/22/06 12:00	47-3	16717	1.951	513.600	21.516	535.200	5.427	ND	ND	0.587	0.049	0.000
8/23/06 0:00	47-4	16718	2.011	513.600	21.122	535.200	5.549	ND	ND	0.573	0.050	0.000
8/23/06 12:00	47-5	16719	2.277	512.800	16.406	535.200	6.844	ND	ND	0.424	0.064	0.000
8/24/06 0:00	47-6	16720	2.494	512.800	18.412	535.200	5.919	ND	ND	0.478	0.048	0.000
8/24/06 12:00	47-7	16721	2.108	512.000	17.641	535.200	5.746	ND	ND	0.466	0.051	0.000
8/25/06 0:00	47-8	16722	2.806	513.600	17.037	535.200	6.366	ND	ND	0.427	0.050	0.000
8/25/06 12:00	47-9	16723	3.580	512.800	17.822	535.200	7.951	ND	ND	0.427	0.061	0.000
8/26/06 0:00	47-10	16724	1.708	512.000	12.814	535.200	6.268	ND	ND	0.333	0.064	0.000
8/26/06 12:00	47-11	16725	2.502	512.800	16.621	535.200	7.039	ND	ND	0.424	0.064	0.000
8/27/06 0:00	47-12	16726	3.040	512.800	16.441	535.200	6.567	ND	ND	0.402	0.049	0.000
8/27/06 12:00	47-13	16727	2.890	512.000	16.895	535.200	6.449	ND	ND	0.420	0.050	0.000
8/28/06 0:00	47-14	16728	2.256	512.800	14.799	535.200	5.571	ND	ND	0.376	0.046	0.000
8/28/06 12:00	47-15	16729	1.846	511.200	17.519	535.200	6.121	ND	ND	0.470	0.060	0.000
8/29/06 0:00	47-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/29/06 12:00	47-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/30/06 0:00	47-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/30/06 12:00	48-1	17184	0.077	512.800	1.430	535.200	0.301	ND	ND	0.041	0.003	0.000
8/31/06 0:00	48-2	17185	0.160	512.800	1.344	535.200	0.409	ND	ND	0.036	0.003	0.000
8/31/06 12:00	48-3	17186	0.084	512.800	1.174	535.200	0.301	ND	ND	0.033	0.003	0.000
9/1/06 0:00	48-4	17187	0.113	513.600	1.180	535.200	0.335	ND	ND	0.032	0.003	0.000
9/1/06 12:00	48-5	17188	0.087	512.800	1.086	535.200	0.315	ND	ND	0.030	0.003	0.000
9/2/06 0:00	48-6	17189	0.123	514.400	1.243	535.200	0.434	ND	ND	0.034	0.004	0.000
9/2/06 12:00	48-7	17190	0.161	514.400	1.293	535.200	0.488	ND	ND	0.034	0.005	0.000
9/3/06 0:00	48-8	17191	0.096	512.800	1.354	535.200	0.300	ND	ND	0.038	0.003	0.000
9/3/06 12:00	48-9	17192	0.070	513.600	1.278	535.200	0.353	ND	ND	0.036	0.004	0.000
9/4/06 0:00	48-10	17193	0.097	514.400	1.297	535.200	0.335	ND	ND	0.036	0.003	0.000
9/4/06 12:00	48-11	17194	0.087	514.400	1.169	535.200	0.442	ND	ND	0.032	0.005	0.000
9/5/06 0:00	48-12	17195	0.063	513.600	1.173	535.200	0.309	ND	ND	0.033	0.003	0.000
9/5/06 12:00	48-13	17196	0.041	513.600	1.204	535.200	0.260	ND	ND	0.035	0.003	0.000
9/6/06 0:00	48-14	17197	0.070	513.600	1.248	535.200	0.357	ND	ND	0.035	0.004	0.000
9/6/06 12:00	49-1	17106	0.165	512.800	1.851	535.200	0.672	ND	ND	0.051	0.007	0.000
9/7/06 0:00	49-2	17107	0.429	512.800	1.968	535.200	0.930	ND	ND	0.046	0.007	0.000
9/7/06 12:00	49-3	17108	0.263	513.600	1.920	535.200	0.801	ND	ND	0.050	0.008	0.000
9/8/06 0:00	49-4	17109	0.124	513.600	1.393	535.200	0.478	ND	ND	0.038	0.005	0.000
9/8/06 12:00	49-5	17110	0.146	513.600	1.830	535.200	0.868	ND	ND	0.051	0.010	0.000
9/9/06 0:00	49-6	17111	0.264	510.400	1.970	535.200	0.811	ND	ND	0.051	0.008	0.000
9/9/06 12:00	49-7	17112	0.126	513.600	1.657	535.200	0.673	ND	ND	0.046	0.008	0.000
9/10/06 0:00	49-8	17113	0.159	513.600	1.427	535.200	0.451	ND	ND	0.038	0.004	0.000
9/10/06 12:00	49-9	17114	0.229	512.800	1.430	535.200	0.544	ND	ND	0.036	0.004	0.000
9/11/06 0:00	49-10	17115	0.108	513.600	1.532	535.200	0.323	ND	ND	0.043	0.003	0.000

Appendix 5. SJ2 spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/26/06 12:00	1-1	11426	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
9/11/06 12:00	49-11	17116	0.205	512.000	1.896	535.200	0.727	ND	ND	0.051	0.007	0.000
9/12/06 0:00	49-12	17117	0.091	513.600	1.592	535.200	0.531	ND	ND	0.045	0.006	0.000
9/12/06 12:00	49-13	17118	0.160	512.800	1.681	535.200	0.452	ND	ND	0.046	0.004	0.000
9/13/06 0:00	49-14	17119	0.185	515.200	1.626	535.200	0.844	ND	ND	0.043	0.009	0.000
9/13/06 12:00	49-15	17120	0.147	512.800	1.437	535.200	0.485	ND	ND	0.039	0.005	0.000
9/14/06 0:00	49-16	17121	0.138	514.400	1.540	535.200	0.599	ND	ND	0.042	0.006	0.000
9/14/06 12:00	49-17	17122	0.278	512.800	1.793	535.200	0.783	ND	ND	0.045	0.007	0.000
9/15/06 0:00	49-18	17123	0.309	514.400	1.893	535.200	0.880	ND	ND	0.048	0.008	0.000
9/15/06 12:00	49-19	17124	0.336	515.200	1.888	535.200	1.167	ND	ND	0.047	0.012	0.000
9/16/06 0:00	49-20	17125	0.254	511.200	1.731	535.200	0.810	ND	ND	0.044	0.008	0.000
9/16/06 12:00	49-21	17126	0.100	513.600	1.482	535.200	0.454	ND	ND	0.041	0.005	0.000
9/17/06 0:00	49-22	17127	0.095	514.400	1.404	535.200	0.603	ND	ND	0.039	0.007	0.000
9/17/06 12:00	49-23	17128	0.217	512.800	1.447	535.200	0.528	ND	ND	0.037	0.004	0.000
9/18/06 0:00	49-24	17129	0.235	512.000	1.531	535.200	0.647	ND	ND	0.039	0.006	0.000

Appendix 6: 2006 SESF Tracer Test: SWS Spectrofluorophotometer Data

		m3/sec	*cfs*						*Estimated Mass Recovered (g)*		
	Highest Probable Flow	*1.82*	*64.2*						*3288*	*1371*	*N/A*
	Lowest Probable Flow	*0.90*	*31.8*						*1627*	*678*	*N/A*
	Probable Average Flow	*1.21*	*42.8*						*2194*	*915*	*N/A*
	Max	*5.845*	*524.800*	*42.582*	*549.600*	*20.266*	*564.000*	*8.105*	*1.256*	*0.251*	*0.060*
	Min	*0.049*	*510.400*	*0.178*	*535.200*	*0.148*	*555.200*	*2.625*	*0.000*	*0.000*	*0.000*
	Count	*299*	*280*	*280*	*277*	*277*	*20*	*20*	*332*	*332*	*332*

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
2/1/06 12:01	grab-grab	11097	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/2/06 15:38	grab-grab	11098	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/3/06 11:15	grab-grab	11099	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/4/06 14:15	grab-grab	11100	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/5/06 10:12	grab-grab	11101	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/6/06 10:56	grab-grab	11102	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/7/06 13:24	grab-grab	11561	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/8/06 14:44	grab-grab	11682	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/9/06 11:44	grab-grab	11686	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/10/06 13:48	grab-grab	11690	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/11/06 14:15	grab-grab	11700	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/12/06 15:10	grab-grab	11708	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/15/06 11:07	grab-grab	11770	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/16/06 10:37	grab-grab	11776	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/17/06 12:44	grab-grab	11778	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/18/06 16:50	grab-grab	11781	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/19/06 10:57	grab-grab	11787	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/20/06 14:44	grab-grab	11790	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/5/06 10:34	grab-grab	12152	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/6/06 10:41	grab-grab	12155	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/7/06 10:45	grab-grab	12434	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/8/06 13:55	grab-grab	12435	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/9/06 10:10	grab-grab	12444	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/11/06 13:26	grab-grab	13421	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/14/06 16:12	grab-grab	13384	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/16/06 11:03	grab-grab	13397	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/18/06 17:05	grab-grab	13416	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/19/06 19:12	grab-grab	13400	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000

Appendix 6: 2006 SESF Tracer Test: SWS Spectrofluorophotometer Data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
3/20/06 15:48	grab-grab	13390	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/22/06 14:28	grab-grab	13396	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/26/06 16:06	grab-grab	13374	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/28/06 16:17	grab-grab	13382	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/29/06 17:50	grab-grab	13395	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/31/06 12:00	1-1	13112	1.043	ND	ND	ND	ND	555.200	3.286	0.000	0.000	0.031
4/1/06 0:00	1-2	13113	0.831	ND	ND	ND	ND	560.000	2.706	0.000	0.000	0.026
4/1/06 12:00	1-3	13114	0.941	ND	ND	ND	ND	558.400	2.625	0.000	0.000	0.024
4/2/06 0:00	1-4	13115	1.001	ND	ND	ND	ND	555.200	2.913	0.000	0.000	0.027
4/2/06 12:00	1-5	13116	1.026	ND	ND	ND	ND	558.400	3.143	0.000	0.000	0.030
4/3/06 0:00	1-6	13117	0.983	ND	ND	ND	ND	556.800	2.801	0.000	0.000	0.025
4/3/06 12:00	1-7	13118	0.908	ND	ND	ND	ND	564.000	2.673	0.000	0.000	0.025
4/4/06 0:00	1-8	13119	1.170	ND	ND	ND	ND	559.200	3.095	0.000	0.000	0.027
4/4/06 12:00	1-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/5/06 0:00	1-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/5/06 12:00	1-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/6/06 0:00	1-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/6/06 12:00	1-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/7/06 0:00	1-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/7/06 12:00	1-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/8/06 0:00	2-1	13120	3.845	ND	ND	ND	ND	555.200	8.105	0.000	0.000	0.060
4/8/06 12:00	2-2	13121	1.146	ND	ND	ND	ND	556.800	3.112	0.000	0.000	0.028
4/9/06 0:00	2-3	13122	1.181	ND	ND	ND	ND	555.200	2.828	0.000	0.000	0.023
4/9/06 12:00	2-4	13123	0.971	ND	ND	ND	ND	557.600	3.033	0.000	0.000	0.029
4/10/06 0:00	2-5	13124	1.239	511.200	4.688	ND	ND	557.600	3.062	0.103	0.000	0.026
4/10/06 12:00	2-6	13125	2.799	ND	ND	ND	ND	555.200	4.058	0.000	0.000	0.018
4/11/06 0:00	2-7	13126	1.089	ND	ND	ND	ND	558.400	3.104	0.000	0.000	0.028
4/11/06 12:00	2-8	13127	0.947	ND	ND	ND	ND	556.000	2.939	0.000	0.000	0.028
4/12/06 0:00	2-9	13128	1.157	ND	ND	ND	ND	556.800	3.570	0.000	0.000	0.034
4/12/06 12:00	2-10	13129	1.545	ND	ND	ND	ND	555.200	4.477	0.000	0.000	0.041
4/13/06 0:00	2-11	13130	1.290	ND	ND	ND	ND	558.400	3.594	0.000	0.000	0.032
4/13/06 12:00	2-12	13131	1.192	ND	ND	ND	ND	555.200	4.143	0.000	0.000	0.041
4/14/06 0:00	2-13	13132	1.941	512.800	7.800	ND	ND	ND	ND	0.176	0.000	0.000
4/14/06 12:00	2-14	13133	1.033	511.200	5.530	ND	ND	ND	ND	0.135	0.000	0.000
4/15/06 0:00	3-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
4/15/06 12:00	3-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
4/16/06 0:00	3-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
4/16/06 12:00	3-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
4/17/06 0:00	3-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
4/17/06 12:00	3-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
4/18/06 0:00	3-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 6: 2006 SESF Tracer Test: SWS Spectrofluorophotometer Data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
4/18/06 12:00	3-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
4/19/06 0:00	4-1	13134	0.675	516.800	7.520	539.200	6.607	ND	ND	0.205	0.083	0.000
4/19/06 12:00	4-2	13135	0.817	514.400	8.485	540.800	7.602	ND	ND	0.230	0.095	0.000
4/20/06 0:00	4-3	13136	0.675	519.200	8.827	535.200	8.152	ND	ND	0.245	0.105	0.000
4/20/06 12:00	4-4	13137	0.676	516.000	7.991	539.200	7.539	ND	ND	0.219	0.096	0.000
4/21/06 0:00	4-5	13138	0.717	518.400	7.496	540.800	7.440	ND	ND	0.203	0.094	0.000
4/21/06 12:00	4-6	13139	0.895	513.600	7.267	540.000	7.590	ND	ND	0.191	0.094	0.000
5/10/06 0:00	5-1	14231	1.230	517.600	10.039	541.600	12.076	ND	ND	0.264	0.152	0.000
5/10/06 12:00	5-2	14232	1.443	518.400	15.544	541.600	17.283	ND	ND	0.423	0.222	0.000
5/11/06 0:00	5-3	14233	1.515	513.600	18.618	540.800	19.461	ND	ND	0.513	0.251	0.000
5/11/06 12:00	5-4	14234	1.541	514.400	15.286	536.800	16.989	ND	ND	0.412	0.216	0.000
5/12/06 0:00	5-5	14235	1.357	515.200	14.665	540.000	15.926	ND	ND	0.399	0.204	0.000
5/12/06 12:00	5-6	14236	0.928	524.800	9.463	543.200	13.694	ND	ND	0.256	0.179	0.000
5/13/06 0:00	5-7	14237	1.288	514.400	11.963	540.000	13.867	ND	ND	0.320	0.176	0.000
5/13/06 12:00	6-1	14081	4.514	516.800	17.298	538.400	16.900	ND	ND	0.384	0.173	0.000
5/14/06 0:00	6-2	14082	1.432	516.800	14.493	540.800	14.247	ND	ND	0.392	0.179	0.000
5/14/06 12:00	6-3	14083	4.410	515.200	16.057	539.200	16.021	ND	ND	0.349	0.163	0.000
5/15/06 0:00	6-4	14084	3.764	513.600	13.206	538.400	14.265	ND	ND	0.283	0.147	0.000
5/15/06 12:00	6-5	14085	5.845	512.800	24.995	538.400	20.266	ND	ND	0.575	0.202	0.000
5/16/06 0:00	6-6	14086	5.137	513.600	18.809	539.200	16.744	ND	ND	0.410	0.162	0.000
5/16/06 12:00	6-7	14087	5.044	515.200	18.809	537.600	16.461	ND	ND	0.413	0.160	0.000
5/17/06 0:00	6-8	14088	3.648	516.800	12.608	540.000	12.231	ND	ND	0.269	0.120	0.000
5/17/06 12:00	6-9	14097	1.686	516.000	11.811	538.400	11.454	ND	ND	0.304	0.137	0.000
5/18/06 0:00	6-10	14098	1.263	516.000	10.915	541.600	9.997	ND	ND	0.290	0.122	0.000
5/18/06 12:00	6-11	14099	2.983	514.400	12.850	540.000	11.835	ND	ND	0.296	0.124	0.000
5/19/06 0:00	6-12	14100	1.785	516.800	11.403	539.200	10.472	ND	ND	0.289	0.122	0.000
5/19/06 12:00	6-13	14101	1.506	516.800	10.374	540.800	10.395	ND	ND	0.266	0.124	0.000
5/20/06 0:00	6-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/20/06 12:00	6-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/21/06 0:00	6-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/21/06 12:00	6-17	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/22/06 0:00	6-18	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/22/06 12:00	6-19	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/23/06 0:00	6-20	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/23/06 12:00	6-21	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/24/06 0:00	7-1	14600	1.538	516.800	11.675	539.200	10.736	ND	ND	0.304	0.129	0.000
5/24/06 12:00	7-2	14601	1.675	516.000	12.593	540.000	11.933	ND	ND	0.328	0.144	0.000
5/25/06 0:00	7-3	14602	1.653	519.200	11.115	540.800	11.387	ND	ND	0.284	0.136	0.000
5/25/06 12:00	7-4	14603	1.460	516.800	11.638	542.400	11.747	ND	ND	0.305	0.144	0.000
5/26/06 0:00	7-5	14604	1.923	516.800	11.270	540.000	10.589	ND	ND	0.280	0.121	0.000
5/26/06 12:00	7-6	14605	1.620	516.800	11.545	542.400	11.734	ND	ND	0.298	0.142	0.000

Appendix 6: 2006 SESF Tracer Test: SWS Spectrofluorophotometer Data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
5/27/06 0:00	7-7	14606	1.713	514.400	10.473	537.600	9.115	ND	ND	0.263	0.104	0.000
5/27/06 12:00	7-8	14607	1.678	517.600	12.208	543.200	12.389	ND	ND	0.316	0.150	0.000
5/28/06 0:00	7-9	14608	1.502	514.400	9.561	535.200	8.395	ND	ND	0.242	0.097	0.000
5/28/06 12:00	7-10	14609	1.500	515.200	11.300	540.000	10.982	ND	ND	0.294	0.133	0.000
5/29/06 0:00	7-11	14610	1.435	515.200	9.507	541.600	10.210	ND	ND	0.242	0.123	0.000
5/29/06 12:00	7-12	14611	1.546	516.000	8.986	540.000	10.422	ND	ND	0.223	0.124	0.000
5/30/06 0:00	7-13	14612	1.432	517.600	9.776	540.000	8.972	ND	ND	0.250	0.106	0.000
5/30/06 12:00	7-14	14613	1.547	515.200	10.118	539.200	9.566	ND	ND	0.257	0.112	0.000
5/31/06 0:00	7-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/31/06 12:00	7-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/1/06 0:00	7-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/1/06 12:00	7-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/2/06 0:00	7-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/2/06 12:00	7-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/3/06 0:00	7-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/3/06 12:00	8-1	14614	2.311	514.400	11.968	540.800	9.773	ND	ND	0.290	0.104	0.000
6/4/06 0:00	8-2	14615	1.436	512.000	8.369	540.000	8.151	ND	ND	0.208	0.094	0.000
6/4/06 12:00	8-3	14616	2.925	518.400	11.937	535.200	10.489	ND	ND	0.270	0.106	0.000
6/5/06 0:00	8-4	14617	5.549	514.400	18.508	535.200	12.645	ND	ND	0.389	0.099	0.000
6/5/06 12:00	8-5	14618	1.201	516.000	9.479	540.000	8.942	ND	ND	0.248	0.108	0.000
6/6/06 0:00	8-6	14619	1.625	514.400	10.690	541.600	9.433	ND	ND	0.272	0.109	0.000
6/6/06 12:00	8-7	14620	1.294	516.000	9.235	537.600	7.943	ND	ND	0.238	0.093	0.000
6/7/06 0:00	8-8	14621	2.260	515.200	13.011	537.600	10.298	ND	ND	0.323	0.113	0.000
6/7/06 12:00	8-9	14622	4.884	512.800	14.706	538.400	11.544	ND	ND	0.295	0.093	0.000
6/8/06 0:00	8-10	14623	1.539	512.800	9.276	536.800	8.315	ND	ND	0.232	0.095	0.000
6/8/06 12:00	8-11	14624	1.846	515.200	9.166	543.200	7.861	ND	ND	0.220	0.084	0.000
6/9/06 0:00	8-12	14625	2.176	516.000	8.906	536.000	8.007	ND	ND	0.202	0.082	0.000
6/9/06 12:00	8-13	14626	4.873	516.800	13.814	536.000	10.403	ND	ND	0.268	0.077	0.000
6/10/06 0:00	8-14	14627	1.318	514.400	8.363	541.600	7.516	ND	ND	0.211	0.087	0.000
6/10/06 12:00	8-15	14628	1.657	513.600	9.194	535.200	7.549	ND	ND	0.226	0.082	0.000
6/11/06 0:00	8-16	14629	3.055	510.400	11.806	535.200	8.864	ND	ND	0.263	0.081	0.000
6/11/06 12:00	8-17	14630	4.944	510.400	15.022	535.200	12.032	ND	ND	0.302	0.099	0.000
6/12/06 0:00	8-18	14631	1.313	512.000	8.031	539.200	6.443	ND	ND	0.202	0.072	0.000
6/12/06 12:00	8-19	14632	2.285	514.400	10.185	538.400	8.445	ND	ND	0.237	0.086	0.000
6/13/06 0:00	8-20	14633	2.492	513.600	10.112	540.000	8.224	ND	ND	0.229	0.080	0.000
6/13/06 12:00	8-21	14634	4.594	510.400	13.244	535.200	9.671	ND	ND	0.260	0.071	0.000
6/14/06 0:00	8-22	14635	1.398	515.200	9.701	540.800	7.611	ND	ND	0.249	0.087	0.000
6/14/06 12:00	8-23	14636	1.576	510.400	9.288	540.000	8.353	ND	ND	0.231	0.095	0.000
6/15/06 0:00	9-1	14594	1.493	512.800	11.583	538.400	8.687	ND	ND	0.303	0.101	0.000
6/15/06 12:00	9-2	14595	1.293	515.200	7.783	542.400	7.138	ND	ND	0.195	0.082	0.000
6/16/06 0:00	9-3	14596	2.523	515.200	8.759	536.000	6.754	ND	ND	0.187	0.059	0.000

Appendix 6: 2006 SESF Tracer Test: SWS Spectrofluorophotometer Data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
6/16/06 12:00	9-4	14597	1.268	515.200	6.798	539.200	6.449	ND	ND	0.166	0.073	0.000
6/17/06 0:00	9-5	14598	1.404	514.400	7.937	540.800	6.808	ND	ND	0.196	0.076	0.000
6/17/06 12:00	9-6	14599	1.534	512.000	7.881	539.200	6.967	ND	ND	0.190	0.076	0.000
6/18/06 0:00	9-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/18/06 12:00	9-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/19/06 0:00	9-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/19/06 12:00	9-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/20/06 0:00	9-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/20/06 12:00	10-1	14963	2.492	524.800	10.899	549.600	12.200	ND	ND	0.252	0.136	0.000
6/21/06 0:00	10-2	14964	3.383	524.800	4.401	549.600	7.641	ND	ND	0.031	0.060	0.000
6/21/06 12:00	10-3	14965	0.132	516.000	0.178	536.000	0.148	ND	ND	0.001	0.000	0.000
6/22/06 0:00	10-4	14966	2.704	524.800	4.953	549.600	6.384	ND	ND	0.067	0.052	0.000
6/22/06 12:00	10-5	14967	2.403	524.800	4.083	549.600	5.178	ND	ND	0.050	0.039	0.000
6/23/06 0:00	10-6	14968	2.399	524.800	4.145	549.600	5.190	ND	ND	0.052	0.039	0.000
6/23/06 12:00	10-7	14969	3.349	524.800	4.745	549.600	8.408	ND	ND	0.042	0.071	0.000
6/24/06 0:00	10-8	14970	4.310	524.800	5.436	549.600	9.650	ND	ND	0.034	0.075	0.000
6/24/06 12:00	10-9	14971	3.169	524.800	4.504	549.600	7.735	ND	ND	0.040	0.064	0.000
6/25/06 0:00	10-10	14972	2.950	524.800	4.026	549.600	7.431	ND	ND	0.032	0.063	0.000
6/25/06 12:00	10-11	14973	2.823	524.800	5.712	549.600	9.500	ND	ND	0.087	0.093	0.000
6/26/06 0:00	10-12	14974	2.391	524.800	4.480	549.600	6.597	ND	ND	0.063	0.059	0.000
6/26/06 12:00	10-13	14975	2.364	524.800	4.291	549.600	5.783	ND	ND	0.058	0.048	0.000
6/27/06 0:00	10-14	14976	2.179	524.800	4.205	549.600	5.833	ND	ND	0.061	0.051	0.000
6/27/06 12:00	10-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/28/06 0:00	10-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/28/06 12:00	10-17	17295	0.184	516.000	0.562	535.200	0.428	ND	ND	0.011	0.003	0.000
6/29/06 0:00	10-18	17296	0.187	523.200	1.042	535.200	0.721	ND	ND	0.026	0.007	0.000
6/29/06 12:00	10-19	17297	0.121	522.400	1.073	535.200	0.685	ND	ND	0.029	0.008	0.000
6/30/06 0:00	10-20	17298	0.102	520.800	0.672	535.200	0.430	ND	ND	0.017	0.005	0.000
6/30/06 12:00	11-1	17299	0.168	510.400	0.677	535.200	0.448	ND	ND	0.015	0.004	0.000
7/1/06 0:00	11-2	17300	0.139	524.800	0.830	535.200	0.699	ND	ND	0.021	0.008	0.000
7/1/06 12:00	11-3	17301	0.168	521.600	0.889	535.200	0.586	ND	ND	0.022	0.006	0.000
7/2/06 0:00	11-4	17302	0.283	524.000	1.084	535.200	0.961	ND	ND	0.024	0.009	0.000
7/2/06 12:00	11-5	17303	0.135	515.200	0.680	535.200	0.403	ND	ND	0.016	0.004	0.000
7/3/06 0:00	11-6	17304	0.152	519.200	0.797	535.200	0.562	ND	ND	0.019	0.006	0.000
7/3/06 12:00	11-7	17305	0.148	516.800	0.784	535.200	0.525	ND	ND	0.019	0.005	0.000
7/4/06 0:00	11-8	17306	0.111	524.800	0.986	535.200	0.682	ND	ND	0.026	0.008	0.000
7/4/06 12:00	11-9	17307	0.175	523.200	1.156	535.200	0.705	ND	ND	0.029	0.007	0.000
7/5/06 0:00	11-10	17308	0.312	519.200	0.791	535.200	0.612	ND	ND	0.014	0.004	0.000
7/5/06 12:00	11-11	17309	0.119	512.000	0.465	535.200	0.262	ND	ND	0.010	0.002	0.000
7/6/06 0:00	11-12	17310	0.261	510.400	0.659	535.200	0.500	ND	ND	0.012	0.003	0.000
7/6/06 12:00	11-13	17311	0.155	517.600	0.572	535.200	0.448	ND	ND	0.013	0.004	0.000

Appendix 6: 2006 SESF Tracer Test: SWS Spectrofluorophotometer Data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
7/7/06 0:00	11-14	17312	0.262	511.200	0.733	535.200	0.454	ND	ND	0.014	0.003	0.000
7/7/06 12:00	11-15	17313	0.084	518.400	0.442	535.200	0.336	ND	ND	0.011	0.004	0.000
7/8/06 0:00	11-16	17314	0.201	520.000	0.875	535.200	0.545	ND	ND	0.020	0.005	0.000
7/8/06 12:00	11-17	17315	0.192	515.200	0.684	535.200	0.409	ND	ND	0.015	0.003	0.000
7/9/06 0:00	11-18	17316	0.199	523.200	1.303	535.200	0.789	ND	ND	0.033	0.008	0.000
7/9/06 12:00	11-19	17317	0.211	521.600	0.883	535.200	0.590	ND	ND	0.020	0.005	0.000
7/10/06 0:00	11-20	17318	0.304	521.600	0.925	535.200	0.708	ND	ND	0.019	0.006	0.000
7/10/06 12:00	11-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/11/06 0:00	12-1	17689	0.085	520.800	0.412	535.200	0.217	ND	ND	0.010	0.002	0.000
7/11/06 12:00	12-2	17690	0.077	511.200	0.418	535.200	0.227	ND	ND	0.010	0.002	0.000
7/12/06 0:00	12-3	17691	0.080	520.800	0.592	535.200	0.332	ND	ND	0.015	0.004	0.000
7/12/06 12:00	12-4	17692	0.069	520.800	0.533	535.200	0.286	ND	ND	0.014	0.003	0.000
7/13/06 0:00	12-5	17693	0.088	519.200	0.700	535.200	0.398	ND	ND	0.018	0.004	0.000
7/13/06 12:00	12-6	17694	0.049	511.200	0.342	535.200	0.180	ND	ND	0.009	0.002	0.000
7/14/06 0:00	12-7	17695	0.076	519.200	0.598	535.200	0.320	ND	ND	0.016	0.003	0.000
7/14/06 12:00	12-8	17696	0.126	520.800	0.447	535.200	0.272	ND	ND	0.010	0.002	0.000
7/15/06 0:00	12-9	17697	0.073	519.200	0.444	535.200	0.213	ND	ND	0.011	0.002	0.000
7/15/06 12:00	12-10	17698	0.077	521.600	0.499	535.200	0.225	ND	ND	0.013	0.002	0.000
7/16/06 0:00	12-11	17699	0.065	512.800	0.360	535.200	0.170	ND	ND	0.009	0.001	0.000
7/16/06 12:00	12-12	17700	0.090	521.600	0.512	535.200	0.272	ND	ND	0.013	0.003	0.000
7/17/06 0:00	12-13	17701	0.107	521.600	0.608	535.200	0.308	ND	ND	0.015	0.003	0.000
7/17/06 12:00	12-14	17702	0.055	519.200	0.323	535.200	0.166	ND	ND	0.008	0.002	0.000
7/18/06 0:00	12-15	17703	0.125	518.400	0.648	535.200	0.348	ND	ND	0.016	0.003	0.000
7/18/06 12:00	12-16	17704	0.114	523.200	0.730	535.200	0.401	ND	ND	0.018	0.004	0.000
7/19/06 0:00	13-1	17661	0.242	517.600	0.645	535.200	0.441	ND	ND	0.012	0.003	0.000
7/19/06 12:00	13-2	17662	0.143	518.400	0.718	535.200	0.443	ND	ND	0.017	0.004	0.000
7/20/06 0:00	13-3	17663	0.465	510.400	1.281	535.200	0.836	ND	ND	0.024	0.005	0.000
7/20/06 12:00	13-4	17664	0.138	524.800	0.682	535.200	0.464	ND	ND	0.016	0.005	0.000
7/21/06 0:00	13-5	17665	0.131	510.400	0.462	535.200	0.258	ND	ND	0.010	0.002	0.000
7/21/06 12:00	13-6	17666	0.293	510.400	0.713	535.200	0.514	ND	ND	0.013	0.003	0.000
7/22/06 0:00	13-7	17667	0.395	510.400	1.236	535.200	0.825	ND	ND	0.025	0.006	0.000
7/22/06 12:00	13-8	17668	0.296	510.400	0.824	535.200	0.615	ND	ND	0.016	0.004	0.000
7/23/06 0:00	13-9	17669	0.161	516.000	0.596	535.200	0.381	ND	ND	0.013	0.003	0.000
7/23/06 12:00	13-10	17670	0.333	511.200	1.309	536.000	0.610	ND	ND	0.029	0.004	0.000
7/24/06 0:00	13-11	17671	0.141	510.400	0.623	535.200	0.314	ND	ND	0.014	0.002	0.000
7/24/06 12:00	13-12	17672	0.224	518.400	0.657	536.800	0.411	ND	ND	0.013	0.003	0.000
7/25/06 0:00	13-13	17673	0.245	512.800	0.702	536.000	0.410	ND	ND	0.014	0.002	0.000
7/25/06 12:00	13-14	17674	0.195	521.600	0.686	535.200	0.546	ND	ND	0.015	0.005	0.000
7/26/06 0:00	14-1	15322	3.632	512.800	4.922	549.600	5.474	ND	ND	0.039	0.026	0.000
7/26/06 12:00	14-2	15323	2.211	524.800	4.024	549.600	6.111	ND	ND	0.054	0.055	0.000
7/27/06 0:00	14-3	15324	3.158	524.800	4.686	549.600	7.062	ND	ND	0.046	0.055	0.000

Appendix 6: 2006 SESF Tracer Test: SWS Spectrofluorophotometer Data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
7/27/06 12:00	14-4	15325	5.458	512.800	8.578	549.600	9.714	ND	ND	0.094	0.060	0.000
7/28/06 0:00	14-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/28/06 12:00	14-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/29/06 0:00	14-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/29/06 12:00	14-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/30/06 0:00	14-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/30/06 12:00	14-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/31/06 0:00	14-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/31/06 12:00	14-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/1/06 0:00	14-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/1/06 12:00	14-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/2/06 0:00	15-1	17573	1.539	520.800	6.240	535.200	3.902	ND	ND	0.141	0.033	0.000
8/2/06 12:00	15-2	17574	2.593	523.200	8.058	535.200	5.544	ND	ND	0.164	0.041	0.000
8/3/06 0:00	15-3	17575	1.460	524.800	5.703	535.200	4.502	ND	ND	0.127	0.043	0.000
8/3/06 12:00	15-4	17576	1.596	520.000	5.177	535.200	3.402	ND	ND	0.107	0.025	0.000
8/4/06 0:00	15-5	17577	1.603	518.400	4.843	535.200	3.140	ND	ND	0.097	0.022	0.000
8/4/06 12:00	15-6	17578	1.440	520.800	5.681	535.200	3.542	ND	ND	0.127	0.029	0.000
8/5/06 0:00	15-7	17579	1.606	518.400	4.501	535.200	3.380	ND	ND	0.087	0.025	0.000
8/5/06 12:00	15-8	17580	1.020	520.000	3.221	535.200	2.213	ND	ND	0.066	0.017	0.000
8/6/06 0:00	15-9	17581	0.765	519.200	2.894	535.200	1.859	ND	ND	0.064	0.015	0.000
8/6/06 12:00	15-10	17582	1.388	516.800	4.535	535.200	2.836	ND	ND	0.094	0.020	0.000
8/7/06 0:00	15-11	17583	1.173	516.800	3.205	535.200	2.341	ND	ND	0.061	0.016	0.000
8/7/06 12:00	15-12	17584	0.868	520.800	3.088	535.200	1.851	ND	ND	0.067	0.014	0.000
8/8/06 0:00	15-13	17585	1.206	511.200	3.307	536.000	2.410	ND	ND	0.063	0.017	0.000
8/8/06 12:00	15-14	17586	1.063	522.400	3.827	535.200	2.419	ND	ND	0.083	0.019	0.000
8/9/06 0:00	15-15	17587	0.693	520.000	1.902	535.200	1.235	ND	ND	0.036	0.008	0.000
8/9/06 12:00	15-16	17588	1.438	514.400	6.487	535.200	3.498	ND	ND	0.151	0.029	0.000
8/10/06 0:00	15-17	17589	0.729	512.800	42.582	535.200	3.520	ND	ND	1.256	0.039	0.000
8/10/06 12:00	16-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/11/06 0:00	16-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/11/06 12:00	16-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/12/06 0:00	16-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/12/06 12:00	16-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/13/06 0:00	16-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/13/06 12:00	16-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/14/06 0:00	16-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/14/06 12:00	16-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/15/06 0:00	16-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/15/06 12:00	16-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/16/06 0:00	16-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/16/06 12:00	16-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 6: 2006 SESF Tracer Test: SWS Spectrofluorophotometer Data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
8/17/06 0:00	16-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/17/06 12:00	16-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/18/06 0:00	16-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/18/06 12:00	16-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/19/06 0:00	16-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/19/06 12:00	16-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/20/06 0:00	16-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/20/06 12:00	16-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/21/06 0:00	16-22	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/21/06 12:00	16-23	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/22/06 0:00	17-1	16650	0.403	521.600	1.413	535.200	0.958	ND	ND	0.030	0.008	0.000
8/22/06 12:00	17-2	16651	0.337	517.600	0.973	535.200	0.643	ND	ND	0.019	0.004	0.000
8/23/06 0:00	17-3	16652	0.360	516.800	1.252	535.200	0.713	ND	ND	0.027	0.005	0.000
8/23/06 12:00	17-4	16653	0.320	520.800	1.172	535.200	0.770	ND	ND	0.026	0.006	0.000
8/24/06 0:00	17-5	16654	0.259	521.600	1.072	535.200	0.641	ND	ND	0.024	0.005	0.000
8/24/06 12:00	17-6	16655	0.303	514.400	0.897	535.200	0.536	ND	ND	0.018	0.003	0.000
8/25/06 0:00	17-7	16656	0.214	522.400	0.946	535.200	0.556	ND	ND	0.022	0.005	0.000
8/25/06 12:00	17-8	16657	0.267	521.600	0.806	535.200	0.491	ND	ND	0.016	0.003	0.000
8/26/06 0:00	17-9	16658	0.278	513.600	0.901	535.200	0.510	ND	ND	0.019	0.003	0.000
8/26/06 12:00	17-10	16659	0.249	521.600	1.082	535.200	0.647	ND	ND	0.025	0.006	0.000
8/27/06 0:00	17-11	16660	0.257	510.400	0.868	536.000	0.445	ND	ND	0.018	0.003	0.000
8/27/06 12:00	17-12	16661	0.197	516.800	0.907	535.200	0.571	ND	ND	0.021	0.005	0.000
8/28/06 0:00	17-13	16662	0.311	510.400	0.914	535.200	0.545	ND	ND	0.018	0.003	0.000
8/28/06 12:00	17-14	16663	0.247	518.400	0.766	535.200	0.529	ND	ND	0.016	0.004	0.000
8/29/06 0:00	17-15	16664	0.286	510.400	0.725	535.200	0.446	ND	ND	0.013	0.002	0.000
8/29/06 12:00	17-16	16665	0.277	518.400	1.044	535.200	0.638	ND	ND	0.023	0.005	0.000
8/30/06 0:00	17-17	16666	0.205	510.400	0.670	535.200	0.392	ND	ND	0.014	0.003	0.000
8/30/06 12:00	18-1	17447	1.291	521.600	4.149	535.200	3.126	ND	ND	0.086	0.026	0.000
8/31/06 0:00	18-2	17448	1.632	518.400	4.298	535.200	3.029	ND	ND	0.080	0.020	0.000
8/31/06 12:00	18-3	17449	1.336	512.000	3.708	535.200	2.294	ND	ND	0.071	0.013	0.000
9/1/06 0:00	18-4	17450	1.515	521.600	4.555	535.200	3.611	ND	ND	0.091	0.029	0.000
9/1/06 12:00	18-5	17451	1.525	523.200	6.243	535.200	3.867	ND	ND	0.142	0.033	0.000
9/2/06 0:00	18-6	17452	1.355	523.200	7.540	535.200	4.673	ND	ND	0.186	0.046	0.000
9/2/06 12:00	18-7	17453	1.668	516.800	3.877	535.200	2.828	ND	ND	0.066	0.016	0.000
9/3/06 0:00	18-8	17454	0.975	519.200	2.786	535.200	1.928	ND	ND	0.054	0.013	0.000
9/3/06 12:00	18-9	17455	1.367	518.400	3.323	535.200	2.385	ND	ND	0.059	0.014	0.000
9/4/06 0:00	18-10	17456	0.781	518.400	2.399	535.200	1.423	ND	ND	0.049	0.009	0.000
9/4/06 12:00	18-11	17457	1.397	516.800	2.751	535.200	2.052	ND	ND	0.041	0.009	0.000
9/5/06 0:00	18-12	17458	0.776	524.800	2.587	535.200	2.169	ND	ND	0.054	0.020	0.000
9/5/06 12:00	18-13	17459	0.688	524.000	2.093	535.200	1.561	ND	ND	0.042	0.012	0.000
9/6/06 0:00	18-14	17460	1.542	522.400	3.417	535.200	2.902	ND	ND	0.056	0.019	0.000

Appendix 6: 2006 SESF Tracer Test: SWS Spectrofluorophotometer Data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
9/6/06 12:00	18-15	17461	0.987	517.600	2.290	535.200	1.860	ND	ND	0.039	0.012	0.000
9/7/06 0:00	18-16	17462	1.350	519.200	2.716	535.200	2.095	ND	ND	0.041	0.010	0.000
9/7/06 12:00	18-17	17463	0.841	520.800	2.753	535.200	2.052	ND	ND	0.057	0.017	0.000
9/8/06 0:00	18-18	17464	0.654	518.400	1.608	535.200	1.147	ND	ND	0.029	0.007	0.000
9/8/06 12:00	19-1	17052	0.301	515.200	0.810	535.200	0.603	ND	ND	0.015	0.004	0.000
9/9/06 0:00	19-2	17052	0.301	515.200	0.810	535.200	0.603	ND	ND	0.015	0.004	0.000
9/9/06 12:00	19-3	17053	0.252	518.400	0.643	535.200	0.452	ND	ND	0.012	0.003	0.000
9/10/06 0:00	19-4	17054	0.278	516.000	1.038	535.200	0.795	ND	ND	0.023	0.007	0.000
9/10/06 12:00	19-5	17055	0.123	515.200	0.363	535.200	0.272	ND	ND	0.007	0.002	0.000
9/11/06 0:00	19-6	17056	0.404	520.000	1.473	535.200	1.144	ND	ND	0.032	0.010	0.000
9/11/06 12:00	19-7	17057	0.163	512.800	0.612	535.200	0.363	ND	ND	0.013	0.003	0.000
9/12/06 0:00	19-8	17058	0.341	524.800	0.914	535.200	0.837	ND	ND	0.017	0.007	0.000
9/12/06 12:00	19-9	17059	0.310	516.800	0.924	535.200	0.582	ND	ND	0.018	0.004	0.000
9/13/06 0:00	19-10	17060	0.518	510.400	1.063	535.200	0.914	ND	ND	0.016	0.006	0.000
9/13/06 12:00	19-11	17061	0.208	524.800	0.874	535.200	0.682	ND	ND	0.020	0.007	0.000
9/14/06 0:00	19-12	17062	0.201	510.400	0.710	535.200	0.544	ND	ND	0.015	0.005	0.000
9/14/06 12:00	19-13	17063	0.555	517.600	1.194	535.200	0.959	ND	ND	0.019	0.006	0.000
9/15/06 0:00	19-14	17064	0.629	518.400	1.515	535.200	1.399	ND	ND	0.027	0.011	0.000
9/15/06 12:00	19-15	17065	0.524	517.600	1.146	535.200	0.973	ND	ND	0.019	0.006	0.000
9/16/06 0:00	19-16	17066	0.403	516.800	1.104	535.200	0.969	ND	ND	0.021	0.008	0.000
9/16/06 12:00	19-17	17067	0.206	521.600	0.602	535.200	0.495	ND	ND	0.012	0.004	0.000
9/17/06 0:00	19-18	17068	0.217	518.400	0.870	535.200	0.564	ND	ND	0.020	0.005	0.000
9/17/06 12:00	19-19	17069	0.489	523.200	1.679	535.200	1.451	ND	ND	0.036	0.013	0.000
9/18/06 0:00	19-20	17069	0.489	523.200	1.679	535.200	1.451	ND	ND	0.036	0.013	0.000
9/18/06 12:00	20-1	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/19/06 0:00	20-2	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/19/06 12:00	20-3	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/20/06 0:00	20-4	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/20/06 12:00	20-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/21/06 0:00	20-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/21/06 12:00	20-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/22/06 0:00	20-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/22/06 12:00	20-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/23/06 0:00	20-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/23/06 12:00	20-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/24/06 0:00	20-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/24/06 12:00	20-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/25/06 0:00	20-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/25/06 12:00	20-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/26/06 0:00	20-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/26/06 12:00	20-17	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A

Appendix 6: 2006 SESF Tracer Test: SWS Spectrofluorophotometer Data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
9/27/06 0:00	20-18	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/27/06 12:00	20-19	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/28/06 0:00	20-20	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/28/06 12:00	21-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/29/06 0:00	21-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/29/06 12:00	21-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/30/06 0:00	21-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/30/06 12:00	21-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/1/06 0:00	21-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/1/06 12:00	21-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/2/06 0:00	21-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/2/06 12:00	21-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/3/06 0:00	21-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/3/06 12:00	21-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/4/06 0:00	21-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/4/06 12:00	21-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/5/06 0:00	21-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/5/06 12:00	21-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/6/06 0:00	21-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/6/06 12:00	21-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/7/06 0:00	21-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/7/06 12:00	21-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/8/06 0:00	21-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/8/06 12:00	21-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/9/06 0:00	21-22	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/9/06 12:00	21-23	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/10/06 0:00	21-24	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/11/06 0:00	22-1	16934	1.036	510.400	10.522	535.200	2.431	ND	ND	0.285	0.020	0.000
10/11/06 12:00	22-2	16935	0.462	516.000	1.455	535.200	0.830	ND	ND	0.030	0.005	0.000
10/12/06 0:00	22-3	16936	1.099	513.600	2.543	535.200	1.953	ND	ND	0.043	0.012	0.000
10/12/06 12:00	22-4	16937	0.908	518.400	2.127	535.200	1.427	ND	ND	0.037	0.007	0.000
10/13/06 0:00	22-5	16938	0.661	520.000	2.000	535.200	1.605	ND	ND	0.040	0.013	0.000
10/13/06 12:00	22-6	16939	0.556	516.000	1.399	535.200	0.920	ND	ND	0.025	0.005	0.000
10/14/06 0:00	22-7	16940	1.990	518.400	4.060	535.200	3.481	ND	ND	0.062	0.021	0.000
10/14/06 12:00	22-8	16941	0.511	511.200	1.800	535.200	0.940	ND	ND	0.039	0.006	0.000
10/15/06 0:00	22-9	16942	0.675	524.800	2.610	535.200	1.981	ND	ND	0.058	0.018	0.000
10/15/06 12:00	22-10	16943	0.595	516.800	1.554	535.200	0.969	ND	ND	0.029	0.005	0.000
10/16/06 0:00	22-11	16944	0.544	510.400	1.460	535.200	0.890	ND	ND	0.027	0.005	0.000
10/16/06 12:00	22-12	16945	0.600	524.800	1.693	535.200	1.532	ND	ND	0.033	0.013	0.000
10/17/06 0:00	22-13	16946	0.696	523.200	2.495	535.200	1.680	ND	ND	0.054	0.014	0.000
10/17/06 12:00	22-14	16947	0.668	519.200	1.588	535.200	1.128	ND	ND	0.028	0.006	0.000

Appendix 6: 2006 SESF Tracer Test: SWS Spectrofluorophotometer Data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
10/18/06 0:00	22-15	16948	0.728	518.400	2.166	535.200	1.653	ND	ND	0.043	0.013	0.000
10/18/06 12:00	22-16	16949	0.500	524.000	1.654	535.200	1.342	ND	ND	0.035	0.012	0.000
10/19/06 0:00	23-1	16788	1.895	524.800	8.115	535.200	6.743	ND	ND	0.187	0.068	0.000
10/19/06 12:00	23-2	16789	2.055	524.800	5.612	535.200	4.713	ND	ND	0.107	0.037	0.000
10/20/06 0:00	23-3	16790	1.332	518.400	4.548	535.200	3.238	ND	ND	0.096	0.027	0.000
10/20/06 12:00	23-4	16791	1.696	511.200	4.861	535.200	3.539	ND	ND	0.095	0.026	0.000
10/21/06 0:00	23-5	16792	1.409	521.600	5.808	535.200	3.626	ND	ND	0.132	0.031	0.000
10/21/06 12:00	23-6	16793	2.266	516.000	5.540	535.200	4.490	ND	ND	0.098	0.031	0.000
10/22/06 0:00	23-7	16794	1.383	518.400	3.922	535.200	2.953	ND	ND	0.076	0.022	0.000
10/22/06 12:00	23-8	16795	1.346	511.200	4.401	535.200	3.285	ND	ND	0.092	0.027	0.000
10/23/06 0:00	23-9	16796	1.134	518.400	3.594	535.200	2.279	ND	ND	0.074	0.016	0.000
10/23/06 12:00	23-10	16797	1.417	510.400	6.157	535.200	3.270	ND	ND	0.142	0.026	0.000
10/24/06 0:00	23-11	16798	2.323	510.400	9.337	535.200	6.778	ND	ND	0.210	0.062	0.000
10/24/06 12:00	23-12	16799	1.981	524.800	10.728	535.200	9.802	ND	ND	0.262	0.109	0.000
10/25/06 0:00	23-13	16800	2.151	510.400	9.024	535.200	6.156	ND	ND	0.206	0.056	0.000
10/25/06 12:00	23-14	16801	2.584	517.600	8.579	535.200	7.992	ND	ND	0.180	0.076	0.000
10/26/06 0:00	23-15	16802	1.595	524.000	4.220	535.200	4.017	ND	ND	0.079	0.034	0.000
10/26/06 12:00	23-16	16803	1.502	510.400	8.138	535.200	3.873	ND	ND	0.199	0.033	0.000
10/27/06 0:00	23-17	16804	0.870	515.200	2.690	535.200	1.738	ND	ND	0.055	0.012	0.000
10/27/06 12:00	24-1	16117	1.874	516.000	4.293	535.200	2.829	ND	ND	0.073	0.013	0.000
10/28/06 0:00	24-2	16118	1.281	511.200	3.508	535.200	2.142	ND	ND	0.067	0.012	0.000
10/28/06 12:00	24-3	16119	1.492	515.200	4.062	535.200	2.417	ND	ND	0.077	0.013	0.000
10/29/06 0:00	24-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/29/06 12:00	24-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/30/06 0:00	24-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/30/06 12:00	24-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/31/06 0:00	24-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/31/06 12:00	24-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/1/06 0:00	24-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/1/06 12:00	24-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/2/06 0:00	24-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/2/06 12:00	24-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/3/06 0:00	24-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/3/06 12:00	24-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/4/06 0:00	24-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/4/06 12:00	24-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/5/06 0:00	24-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/5/06 12:00	24-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/6/06 0:00	24-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/6/06 12:00	24-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/7/06 0:00	24-22	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 6: 2006 SESF Tracer Test: SWS Spectrofluorophotometer Data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
11/7/06 12:00	24-23	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/8/06 0:00	25-1	15925	4.695	510.400	13.571	536.000	10.511	ND	ND	0.266	0.081	0.000
11/8/06 12:00	25-2	15926	1.260	510.400	2.520	536.000	1.791	ND	ND	0.038	0.007	0.000
11/9/06 0:00	25-3	15927	5.397	510.400	13.892	535.200	11.262	ND	ND	0.255	0.082	0.000
11/9/06 12:00	25-4	15928	2.697	510.400	6.711	535.200	5.016	ND	ND	0.120	0.032	0.000
11/10/06 0:00	25-5	15929	1.624	510.400	6.665	535.200	4.008	ND	ND	0.151	0.033	0.000
11/10/06 12:00	25-6	15930	1.759	510.400	4.184	535.200	3.452	ND	ND	0.073	0.024	0.000
11/11/06 0:00	25-7	15931	1.773	511.200	5.256	535.200	3.715	ND	ND	0.104	0.027	0.000
11/11/06 12:00	25-8	15932	1.163	515.200	3.271	535.200	2.504	ND	ND	0.063	0.019	0.000
11/12/06 0:00	25-9	15933	1.705	510.400	4.811	535.200	3.948	ND	ND	0.093	0.031	0.000
11/12/06 12:00	25-10	15934	1.065	518.400	2.434	535.200	2.122	ND	ND	0.041	0.015	0.000
11/13/06 0:00	25-11	15935	1.749	510.400	4.270	535.200	3.521	ND	ND	0.076	0.025	0.000
11/13/06 12:00	25-12	15936	1.195	518.400	3.033	535.200	2.753	ND	ND	0.055	0.022	0.000
11/14/06 0:00	25-13	15937	1.544	510.400	4.754	535.200	3.464	ND	ND	0.096	0.027	0.000
11/14/06 12:00	25-14	15938	0.575	510.400	1.846	535.200	1.484	ND	ND	0.038	0.013	0.000
11/15/06 0:00	25-15	15939	0.961	511.200	2.439	535.200	2.051	ND	ND	0.044	0.015	0.000
11/15/06 12:00	25-16	15940	1.136	510.400	2.972	535.200	2.324	ND	ND	0.055	0.017	0.000
11/16/06 0:00	25-17	15941	1.723	516.800	3.420	536.000	3.055	ND	ND	0.051	0.019	0.000
11/16/06 12:00	26-1	16840	0.577	518.400	2.473	535.200	1.737	ND	ND	0.057	0.016	0.000
11/17/06 0:00	26-2	16841	1.205	518.400	3.335	535.200	2.500	ND	ND	0.064	0.018	0.000
11/17/06 12:00	26-3	16942	0.675	524.800	2.610	535.200	1.981	ND	ND	0.058	0.018	0.000
11/18/06 0:00	26-4	16943	0.595	516.800	1.554	535.200	0.969	ND	ND	0.029	0.005	0.000
11/18/06 12:00	26-5	16944	0.544	510.400	1.460	535.200	0.890	ND	ND	0.027	0.005	0.000
11/19/06 0:00	26-6	16945	0.600	524.800	1.693	535.200	1.532	ND	ND	0.033	0.013	0.000
11/19/06 12:00	26-7	16946	0.696	523.200	2.495	535.200	1.680	ND	ND	0.054	0.014	0.000
11/20/06 0:00	26-8	16947	0.668	519.200	1.588	535.200	1.128	ND	ND	0.028	0.006	0.000
11/20/06 12:00	26-9	16948	0.728	518.400	2.166	535.200	1.653	ND	ND	0.043	0.013	0.000
11/21/06 0:00	26-10	16949	0.500	524.000	1.654	535.200	1.342	ND	ND	0.035	0.012	0.000
11/21/06 12:00	26-11	16950	0.731	512.800	2.953	535.200	1.875	ND	ND	0.067	0.016	0.000

FLORIDA GEOLOGICAL SURVEY

Appendix 7: SWS spectrofluorophotometer data.

			m3/sec	*cfs*						*Estimated Mass Recovered (g)*		
	Highest Probable Flow		*1.82*	*64.2*						*3288*	*1371*	*N/A*
	Lowest Probable Flow		*0.90*	*31.8*						*1627*	*678*	*N/A*
	Probable Average Flow		*1.21*	*42.8*						*2194*	*915*	*N/A*
	Max		*5.845*	*524.800*	*42.582*	*549.600*	*20.266*	*564.000*	*8.105*	*1.256*	*0.251*	*0.060*
	Min		*0.049*	*510.400*	*0.178*	*535.200*	*0.148*	*555.200*	*2.625*	*0.000*	*0.000*	*0.000*
	Count		*299*	*280*	*280*	*277*	*277*	*20*	*20*	*332*	*332*	*332*
Date Time	**Field Sample Number**	**Lab Sample Number**	**Meas. Baseline (MEAS)**	**AY73 Wavelen (MEAS)**	**AY73 Intens (MEAS)**	**AR87 Wavelen (MEAS)**	**AR87 Intens (MEAS)**	**AR92 Wavelen (MEAS)**	**AR92 Intens (MEAS)**	**AY73 PPB (CALC)**	**AR87 PPB (CALC)**	**AR92 PPB (CALC)**
2/1/06 12:01	grab-grab	11097	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/2/06 15:38	grab-grab	11098	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/3/06 11:15	grab-grab	11099	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/4/06 14:15	grab-grab	11100	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/5/06 10:12	grab-grab	11101	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/6/06 10:56	grab-grab	11102	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/7/06 13:24	grab-grab	11561	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/8/06 14:44	grab-grab	11682	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/9/06 11:44	grab-grab	11686	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/10/06 13:48	grab-grab	11690	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/11/06 14:15	grab-grab	11700	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/12/06 15:10	grab-grab	11708	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/15/06 11:07	grab-grab	11770	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/16/06 10:37	grab-grab	11776	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/17/06 12:44	grab-grab	11778	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/18/06 16:50	grab-grab	11781	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/19/06 10:57	grab-grab	11787	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/20/06 14:44	grab-grab	11790	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/5/06 10:34	grab-grab	12152	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/6/06 10:41	grab-grab	12155	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/7/06 10:45	grab-grab	12434	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/8/06 13:55	grab-grab	12435	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/9/06 10:10	grab-grab	12444	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/11/06 13:26	grab-grab	13421	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/14/06 16:12	grab-grab	13384	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/16/06 11:03	grab-grab	13397	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/18/06 17:05	grab-grab	13416	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/19/06 19:12	grab-grab	13400	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000

Appendix 7: SWS spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
3/20/06 15:48	grab-	13390	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/22/06 14:28	grab-	13396	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/26/06 16:06	grab-	13374	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/28/06 16:17	grab-	13382	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/29/06 17:50	grab-	13395	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/31/06 12:00	1-1	13112	1.043	ND	ND	ND	ND	555.200	3.286	0.000	0.000	0.031
4/1/06 0:00	1-2	13113	0.831	ND	ND	ND	ND	560.000	2.706	0.000	0.000	0.026
4/1/06 12:00	1-3	13114	0.941	ND	ND	ND	ND	558.400	2.625	0.000	0.000	0.024
4/2/06 0:00	1-4	13115	1.001	ND	ND	ND	ND	555.200	2.913	0.000	0.000	0.027
4/2/06 12:00	1-5	13116	1.026	ND	ND	ND	ND	558.400	3.143	0.000	0.000	0.030
4/3/06 0:00	1-6	13117	0.983	ND	ND	ND	ND	556.800	2.801	0.000	0.000	0.025
4/3/06 12:00	1-7	13118	0.908	ND	ND	ND	ND	564.000	2.673	0.000	0.000	0.025
4/4/06 0:00	1-8	13119	1.170	ND	ND	ND	ND	559.200	3.095	0.000	0.000	0.027
4/4/06 12:00	1-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/5/06 0:00	1-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/5/06 12:00	1-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/6/06 0:00	1-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/6/06 12:00	1-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/7/06 0:00	1-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/7/06 12:00	1-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/8/06 0:00	2-1	13120	3.845	ND	ND	ND	ND	555.200	8.105	0.000	0.000	0.060
4/8/06 12:00	2-2	13121	1.146	ND	ND	ND	ND	556.800	3.112	0.000	0.000	0.028
4/9/06 0:00	2-3	13122	1.181	ND	ND	ND	ND	555.200	2.828	0.000	0.000	0.023
4/9/06 12:00	2-4	13123	0.971	ND	ND	ND	ND	557.600	3.033	0.000	0.000	0.029
4/10/06 0:00	2-5	13124	1.239	511.200	4.688	ND	ND	557.600	3.062	0.103	0.000	0.026
4/10/06 12:00	2-6	13125	2.799	ND	ND	ND	ND	555.200	4.058	0.000	0.000	0.018
4/11/06 0:00	2-7	13126	1.089	ND	ND	ND	ND	558.400	3.104	0.000	0.000	0.028
4/11/06 12:00	2-8	13127	0.947	ND	ND	ND	ND	556.000	2.939	0.000	0.000	0.028
4/12/06 0:00	2-9	13128	1.157	ND	ND	ND	ND	556.800	3.570	0.000	0.000	0.034
4/12/06 12:00	2-10	13129	1.545	ND	ND	ND	ND	555.200	4.477	0.000	0.000	0.041
4/13/06 0:00	2-11	13130	1.290	ND	ND	ND	ND	558.400	3.594	0.000	0.000	0.032
4/13/06 12:00	2-12	13131	1.192	ND	ND	ND	ND	555.200	4.143	0.000	0.000	0.041
4/14/06 0:00	2-13	13132	1.941	512.800	7.800	ND	ND	ND	ND	0.176	0.000	0.000
4/14/06 12:00	2-14	13133	1.033	511.200	5.530	ND	ND	ND	ND	0.135	0.000	0.000
4/15/06 0:00	3-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
4/15/06 12:00	3-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
4/16/06 0:00	3-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
4/16/06 12:00	3-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
4/17/06 0:00	3-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
4/17/06 12:00	3-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
4/18/06 0:00	3-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 7: SWS spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
4/18/06 12:00	3-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
4/19/06 0:00	4-1	13134	0.675	516.800	7.520	539.200	6.607	ND	ND	0.205	0.083	0.000
4/19/06 12:00	4-2	13135	0.817	514.400	8.485	540.800	7.602	ND	ND	0.230	0.095	0.000
4/20/06 0:00	4-3	13136	0.675	519.200	8.827	535.200	8.152	ND	ND	0.245	0.105	0.000
4/20/06 12:00	4-4	13137	0.676	516.000	7.991	539.200	7.539	ND	ND	0.219	0.096	0.000
4/21/06 0:00	4-5	13138	0.717	518.400	7.496	540.800	7.440	ND	ND	0.203	0.094	0.000
4/21/06 12:00	4-6	13139	0.895	513.600	7.267	540.000	7.590	ND	ND	0.191	0.094	0.000
5/10/06 0:00	5-1	14231	1.230	517.600	10.039	541.600	12.076	ND	ND	0.264	0.152	0.000
5/10/06 12:00	5-2	14232	1.443	518.400	15.544	541.600	17.283	ND	ND	0.423	0.222	0.000
5/11/06 0:00	5-3	14233	1.515	513.600	18.618	540.800	19.461	ND	ND	0.513	0.251	0.000
5/11/06 12:00	5-4	14234	1.541	514.400	15.286	536.800	16.989	ND	ND	0.412	0.216	0.000
5/12/06 0:00	5-5	14235	1.357	515.200	14.665	540.000	15.926	ND	ND	0.399	0.204	0.000
5/12/06 12:00	5-6	14236	0.928	524.800	9.463	543.200	13.694	ND	ND	0.256	0.179	0.000
5/13/06 0:00	5-7	14237	1.288	514.400	11.963	540.000	13.867	ND	ND	0.320	0.176	0.000
5/13/06 12:00	6-1	14081	4.514	516.800	17.298	538.400	16.900	ND	ND	0.384	0.173	0.000
5/14/06 0:00	6-2	14082	1.432	516.800	14.493	540.800	14.247	ND	ND	0.392	0.179	0.000
5/14/06 12:00	6-3	14083	4.410	515.200	16.057	539.200	16.021	ND	ND	0.349	0.163	0.000
5/15/06 0:00	6-4	14084	3.764	513.600	13.206	538.400	14.265	ND	ND	0.283	0.147	0.000
5/15/06 12:00	6-5	14085	5.845	512.800	24.995	538.400	20.266	ND	ND	0.575	0.202	0.000
5/16/06 0:00	6-6	14086	5.137	513.600	18.809	539.200	16.744	ND	ND	0.410	0.162	0.000
5/16/06 12:00	6-7	14087	5.044	515.200	18.809	537.600	16.461	ND	ND	0.413	0.160	0.000
5/17/06 0:00	6-8	14088	3.648	516.800	12.608	540.000	12.231	ND	ND	0.269	0.120	0.000
5/17/06 12:00	6-9	14097	1.686	516.000	11.811	538.400	11.454	ND	ND	0.304	0.137	0.000
5/18/06 0:00	6-10	14098	1.263	516.000	10.915	541.600	9.997	ND	ND	0.290	0.122	0.000
5/18/06 12:00	6-11	14099	2.983	514.400	12.850	540.000	11.835	ND	ND	0.296	0.124	0.000
5/19/06 0:00	6-12	14100	1.785	516.800	11.403	539.200	10.472	ND	ND	0.289	0.122	0.000
5/19/06 12:00	6-13	14101	1.506	516.800	10.374	540.800	10.395	ND	ND	0.266	0.124	0.000
5/20/06 0:00	6-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/20/06 12:00	6-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/21/06 0:00	6-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/21/06 12:00	6-17	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/22/06 0:00	6-18	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/22/06 12:00	6-19	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/23/06 0:00	6-20	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/23/06 12:00	6-21	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/24/06 0:00	7-1	14600	1.538	516.800	11.675	539.200	10.736	ND	ND	0.304	0.129	0.000
5/24/06 12:00	7-2	14601	1.675	516.000	12.593	540.000	11.933	ND	ND	0.328	0.144	0.000
5/25/06 0:00	7-3	14602	1.653	519.200	11.115	540.800	11.387	ND	ND	0.284	0.136	0.000
5/25/06 12:00	7-4	14603	1.460	516.800	11.638	542.400	11.747	ND	ND	0.305	0.144	0.000
5/26/06 0:00	7-5	14604	1.923	516.800	11.270	540.000	10.589	ND	ND	0.280	0.121	0.000
5/26/06 12:00	7-6	14605	1.620	516.800	11.545	542.400	11.734	ND	ND	0.298	0.142	0.000

Appendix 7: SWS spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
5/27/06 0:00	7-7	14606	1.713	514.400	10.473	537.600	9.115	ND	ND	0.263	0.104	0.000
5/27/06 12:00	7-8	14607	1.678	517.600	12.208	543.200	12.389	ND	ND	0.316	0.150	0.000
5/28/06 0:00	7-9	14608	1.502	514.400	9.561	535.200	8.395	ND	ND	0.242	0.097	0.000
5/28/06 12:00	7-10	14609	1.500	515.200	11.300	540.000	10.982	ND	ND	0.294	0.133	0.000
5/29/06 0:00	7-11	14610	1.435	515.200	9.507	541.600	10.210	ND	ND	0.242	0.123	0.000
5/29/06 12:00	7-12	14611	1.546	516.000	8.986	540.000	10.422	ND	ND	0.223	0.124	0.000
5/30/06 0:00	7-13	14612	1.432	517.600	9.776	540.000	8.972	ND	ND	0.250	0.106	0.000
5/30/06 12:00	7-14	14613	1.547	515.200	10.118	539.200	9.566	ND	ND	0.257	0.112	0.000
5/31/06 0:00	7-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/31/06 12:00	7-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/1/06 0:00	7-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/1/06 12:00	7-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/2/06 0:00	7-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/2/06 12:00	7-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/3/06 0:00	7-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/3/06 12:00	8-1	14614	2.311	514.400	11.968	540.800	9.773	ND	ND	0.290	0.104	0.000
6/4/06 0:00	8-2	14615	1.436	512.000	8.369	540.000	8.151	ND	ND	0.208	0.094	0.000
6/4/06 12:00	8-3	14616	2.925	518.400	11.937	535.200	10.489	ND	ND	0.270	0.106	0.000
6/5/06 0:00	8-4	14617	5.549	514.400	18.508	535.200	12.645	ND	ND	0.389	0.099	0.000
6/5/06 12:00	8-5	14618	1.201	516.000	9.479	540.000	8.942	ND	ND	0.248	0.108	0.000
6/6/06 0:00	8-6	14619	1.625	514.400	10.690	541.600	9.433	ND	ND	0.272	0.109	0.000
6/6/06 12:00	8-7	14620	1.294	516.000	9.235	537.600	7.943	ND	ND	0.238	0.093	0.000
6/7/06 0:00	8-8	14621	2.260	515.200	13.011	537.600	10.298	ND	ND	0.323	0.113	0.000
6/7/06 12:00	8-9	14622	4.884	512.800	14.706	538.400	11.544	ND	ND	0.295	0.093	0.000
6/8/06 0:00	8-10	14623	1.539	512.800	9.276	536.800	8.315	ND	ND	0.232	0.095	0.000
6/8/06 12:00	8-11	14624	1.846	515.200	9.166	543.200	7.861	ND	ND	0.220	0.084	0.000
6/9/06 0:00	8-12	14625	2.176	516.000	8.906	536.000	8.007	ND	ND	0.202	0.082	0.000
6/9/06 12:00	8-13	14626	4.873	516.800	13.814	536.000	10.403	ND	ND	0.268	0.077	0.000
6/10/06 0:00	8-14	14627	1.318	514.400	8.363	541.600	7.516	ND	ND	0.211	0.087	0.000
6/10/06 12:00	8-15	14628	1.657	513.600	9.194	535.200	7.549	ND	ND	0.226	0.082	0.000
6/11/06 0:00	8-16	14629	3.055	510.400	11.806	535.200	8.864	ND	ND	0.263	0.081	0.000
6/11/06 12:00	8-17	14630	4.944	510.400	15.022	535.200	12.032	ND	ND	0.302	0.099	0.000
6/12/06 0:00	8-18	14631	1.313	512.000	8.031	539.200	6.443	ND	ND	0.202	0.072	0.000
6/12/06 12:00	8-19	14632	2.285	514.400	10.185	538.400	8.445	ND	ND	0.237	0.086	0.000
6/13/06 0:00	8-20	14633	2.492	513.600	10.112	540.000	8.224	ND	ND	0.229	0.080	0.000
6/13/06 12:00	8-21	14634	4.594	510.400	13.244	535.200	9.671	ND	ND	0.260	0.071	0.000
6/14/06 0:00	8-22	14635	1.398	515.200	9.701	540.800	7.611	ND	ND	0.249	0.087	0.000
6/14/06 12:00	8-23	14636	1.576	510.400	9.288	540.000	8.353	ND	ND	0.231	0.095	0.000
6/15/06 0:00	9-1	14594	1.493	512.800	11.583	538.400	8.687	ND	ND	0.303	0.101	0.000
6/15/06 12:00	9-2	14595	1.293	515.200	7.783	542.400	7.138	ND	ND	0.195	0.082	0.000
6/16/06 0:00	9-3	14596	2.523	515.200	8.759	536.000	6.754	ND	ND	0.187	0.059	0.000

Appendix 7: SWS spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
6/16/06 12:00	9-4	14597	1.268	515.200	6.798	539.200	6.449	ND	ND	0.166	0.073	0.000
6/17/06 0:00	9-5	14598	1.404	514.400	7.937	540.800	6.808	ND	ND	0.196	0.076	0.000
6/17/06 12:00	9-6	14599	1.534	512.000	7.881	539.200	6.967	ND	ND	0.190	0.076	0.000
6/18/06 0:00	9-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/18/06 12:00	9-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/19/06 0:00	9-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/19/06 12:00	9-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/20/06 0:00	9-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/20/06 12:00	10-1	14963	2.492	524.800	10.899	549.600	12.200	ND	ND	0.252	0.136	0.000
6/21/06 0:00	10-2	14964	3.383	524.800	4.401	549.600	7.641	ND	ND	0.031	0.060	0.000
6/21/06 12:00	10-3	14965	0.132	516.000	0.178	536.000	0.148	ND	ND	0.001	0.000	0.000
6/22/06 0:00	10-4	14966	2.704	524.800	4.953	549.600	6.384	ND	ND	0.067	0.052	0.000
6/22/06 12:00	10-5	14967	2.403	524.800	4.083	549.600	5.178	ND	ND	0.050	0.039	0.000
6/23/06 0:00	10-6	14968	2.399	524.800	4.145	549.600	5.190	ND	ND	0.052	0.039	0.000
6/23/06 12:00	10-7	14969	3.349	524.800	4.745	549.600	8.408	ND	ND	0.042	0.071	0.000
6/24/06 0:00	10-8	14970	4.310	524.800	5.436	549.600	9.650	ND	ND	0.034	0.075	0.000
6/24/06 12:00	10-9	14971	3.169	524.800	4.504	549.600	7.735	ND	ND	0.040	0.064	0.000
6/25/06 0:00	10-10	14972	2.950	524.800	4.026	549.600	7.431	ND	ND	0.032	0.063	0.000
6/25/06 12:00	10-11	14973	2.823	524.800	5.712	549.600	9.500	ND	ND	0.087	0.093	0.000
6/26/06 0:00	10-12	14974	2.391	524.800	4.480	549.600	6.597	ND	ND	0.063	0.059	0.000
6/26/06 12:00	10-13	14975	2.364	524.800	4.291	549.600	5.783	ND	ND	0.058	0.048	0.000
6/27/06 0:00	10-14	14976	2.179	524.800	4.205	549.600	5.833	ND	ND	0.061	0.051	0.000
6/27/06 12:00	10-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/28/06 0:00	10-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/28/06 12:00	10-17	17295	0.184	516.000	0.562	535.200	0.428	ND	ND	0.011	0.003	0.000
6/29/06 0:00	10-18	17296	0.187	523.200	1.042	535.200	0.721	ND	ND	0.026	0.007	0.000
6/29/06 12:00	10-19	17297	0.121	522.400	1.073	535.200	0.685	ND	ND	0.029	0.008	0.000
6/30/06 0:00	10-20	17298	0.102	520.800	0.672	535.200	0.430	ND	ND	0.017	0.005	0.000
6/30/06 12:00	11-1	17299	0.168	510.400	0.677	535.200	0.448	ND	ND	0.015	0.004	0.000
7/1/06 0:00	11-2	17300	0.139	524.800	0.830	535.200	0.699	ND	ND	0.021	0.008	0.000
7/1/06 12:00	11-3	17301	0.168	521.600	0.889	535.200	0.586	ND	ND	0.022	0.006	0.000
7/2/06 0:00	11-4	17302	0.283	524.000	1.084	535.200	0.961	ND	ND	0.024	0.009	0.000
7/2/06 12:00	11-5	17303	0.135	515.200	0.680	535.200	0.403	ND	ND	0.016	0.004	0.000
7/3/06 0:00	11-6	17304	0.152	519.200	0.797	535.200	0.562	ND	ND	0.019	0.006	0.000
7/3/06 12:00	11-7	17305	0.148	516.800	0.784	535.200	0.525	ND	ND	0.019	0.005	0.000
7/4/06 0:00	11-8	17306	0.111	524.800	0.986	535.200	0.682	ND	ND	0.026	0.008	0.000
7/4/06 12:00	11-9	17307	0.175	523.200	1.156	535.200	0.705	ND	ND	0.029	0.007	0.000
7/5/06 0:00	11-10	17308	0.312	519.200	0.791	535.200	0.612	ND	ND	0.014	0.004	0.000
7/5/06 12:00	11-11	17309	0.119	512.000	0.465	535.200	0.262	ND	ND	0.010	0.002	0.000
7/6/06 0:00	11-12	17310	0.261	510.400	0.659	535.200	0.500	ND	ND	0.012	0.003	0.000
7/6/06 12:00	11-13	17311	0.155	517.600	0.572	535.200	0.448	ND	ND	0.013	0.004	0.000

Appendix 7: SWS spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
7/7/06 0:00	11-14	17312	0.262	511.200	0.733	535.200	0.454	ND	ND	0.014	0.003	0.000
7/7/06 12:00	11-15	17313	0.084	518.400	0.442	535.200	0.336	ND	ND	0.011	0.004	0.000
7/8/06 0:00	11-16	17314	0.201	520.000	0.875	535.200	0.545	ND	ND	0.020	0.005	0.000
7/8/06 12:00	11-17	17315	0.192	515.200	0.684	535.200	0.409	ND	ND	0.015	0.003	0.000
7/9/06 0:00	11-18	17316	0.199	523.200	1.303	535.200	0.789	ND	ND	0.033	0.008	0.000
7/9/06 12:00	11-19	17317	0.211	521.600	0.883	535.200	0.590	ND	ND	0.020	0.005	0.000
7/10/06 0:00	11-20	17318	0.304	521.600	0.925	535.200	0.708	ND	ND	0.019	0.006	0.000
7/10/06 12:00	11-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/11/06 0:00	12-1	17689	0.085	520.800	0.412	535.200	0.217	ND	ND	0.010	0.002	0.000
7/11/06 12:00	12-2	17690	0.077	511.200	0.418	535.200	0.227	ND	ND	0.010	0.002	0.000
7/12/06 0:00	12-3	17691	0.080	520.800	0.592	535.200	0.332	ND	ND	0.015	0.004	0.000
7/12/06 12:00	12-4	17692	0.069	520.800	0.533	535.200	0.286	ND	ND	0.014	0.003	0.000
7/13/06 0:00	12-5	17693	0.088	519.200	0.700	535.200	0.398	ND	ND	0.018	0.004	0.000
7/13/06 12:00	12-6	17694	0.049	511.200	0.342	535.200	0.180	ND	ND	0.009	0.002	0.000
7/14/06 0:00	12-7	17695	0.076	519.200	0.598	535.200	0.320	ND	ND	0.016	0.003	0.000
7/14/06 12:00	12-8	17696	0.126	520.800	0.447	535.200	0.272	ND	ND	0.010	0.002	0.000
7/15/06 0:00	12-9	17697	0.073	519.200	0.444	535.200	0.213	ND	ND	0.011	0.002	0.000
7/15/06 12:00	12-10	17698	0.077	521.600	0.499	535.200	0.225	ND	ND	0.013	0.002	0.000
7/16/06 0:00	12-11	17699	0.065	512.800	0.360	535.200	0.170	ND	ND	0.009	0.001	0.000
7/16/06 12:00	12-12	17700	0.090	521.600	0.512	535.200	0.272	ND	ND	0.013	0.003	0.000
7/17/06 0:00	12-13	17701	0.107	521.600	0.608	535.200	0.308	ND	ND	0.015	0.003	0.000
7/17/06 12:00	12-14	17702	0.055	519.200	0.323	535.200	0.166	ND	ND	0.008	0.002	0.000
7/18/06 0:00	12-15	17703	0.125	518.400	0.648	535.200	0.348	ND	ND	0.016	0.003	0.000
7/18/06 12:00	12-16	17704	0.114	523.200	0.730	535.200	0.401	ND	ND	0.018	0.004	0.000
7/19/06 0:00	13-1	17661	0.242	517.600	0.645	535.200	0.441	ND	ND	0.012	0.003	0.000
7/19/06 12:00	13-2	17662	0.143	518.400	0.718	535.200	0.443	ND	ND	0.017	0.004	0.000
7/20/06 0:00	13-3	17663	0.465	510.400	1.281	535.200	0.836	ND	ND	0.024	0.005	0.000
7/20/06 12:00	13-4	17664	0.138	524.800	0.682	535.200	0.464	ND	ND	0.016	0.005	0.000
7/21/06 0:00	13-5	17665	0.131	510.400	0.462	535.200	0.258	ND	ND	0.010	0.002	0.000
7/21/06 12:00	13-6	17666	0.293	510.400	0.713	535.200	0.514	ND	ND	0.013	0.003	0.000
7/22/06 0:00	13-7	17667	0.395	510.400	1.236	535.200	0.825	ND	ND	0.025	0.006	0.000
7/22/06 12:00	13-8	17668	0.296	510.400	0.824	535.200	0.615	ND	ND	0.016	0.004	0.000
7/23/06 0:00	13-9	17669	0.161	516.000	0.596	535.200	0.381	ND	ND	0.013	0.003	0.000
7/23/06 12:00	13-10	17670	0.333	511.200	1.309	536.000	0.610	ND	ND	0.029	0.004	0.000
7/24/06 0:00	13-11	17671	0.141	510.400	0.623	535.200	0.314	ND	ND	0.014	0.002	0.000
7/24/06 12:00	13-12	17672	0.224	518.400	0.657	536.800	0.411	ND	ND	0.013	0.003	0.000
7/25/06 0:00	13-13	17673	0.245	512.800	0.702	536.000	0.410	ND	ND	0.014	0.002	0.000
7/25/06 12:00	13-14	17674	0.195	521.600	0.686	535.200	0.546	ND	ND	0.015	0.005	0.000
7/26/06 0:00	14-1	15322	3.632	512.800	4.922	549.600	5.474	ND	ND	0.039	0.026	0.000
7/26/06 12:00	14-2	15323	2.211	524.800	4.024	549.600	6.111	ND	ND	0.054	0.055	0.000
7/27/06 0:00	14-3	15324	3.158	524.800	4.686	549.600	7.062	ND	ND	0.046	0.055	0.000

Appendix 7: SWS spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
7/27/06 12:00	14-4	15325	5.458	512.800	8.578	549.600	9.714	ND	ND	0.094	0.060	0.000
7/28/06 0:00	14-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/28/06 12:00	14-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/29/06 0:00	14-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/29/06 12:00	14-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/30/06 0:00	14-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/30/06 12:00	14-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/31/06 0:00	14-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/31/06 12:00	14-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/1/06 0:00	14-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/1/06 12:00	14-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/2/06 0:00	15-1	17573	1.539	520.800	6.240	535.200	3.902	ND	ND	0.141	0.033	0.000
8/2/06 12:00	15-2	17574	2.593	523.200	8.058	535.200	5.544	ND	ND	0.164	0.041	0.000
8/3/06 0:00	15-3	17575	1.460	524.800	5.703	535.200	4.502	ND	ND	0.127	0.043	0.000
8/3/06 12:00	15-4	17576	1.596	520.000	5.177	535.200	3.402	ND	ND	0.107	0.025	0.000
8/4/06 0:00	15-5	17577	1.603	518.400	4.843	535.200	3.140	ND	ND	0.097	0.022	0.000
8/4/06 12:00	15-6	17578	1.440	520.800	5.681	535.200	3.542	ND	ND	0.127	0.029	0.000
8/5/06 0:00	15-7	17579	1.606	518.400	4.501	535.200	3.380	ND	ND	0.087	0.025	0.000
8/5/06 12:00	15-8	17580	1.020	520.000	3.221	535.200	2.213	ND	ND	0.066	0.017	0.000
8/6/06 0:00	15-9	17581	0.765	519.200	2.894	535.200	1.859	ND	ND	0.064	0.015	0.000
8/6/06 12:00	15-10	17582	1.388	516.800	4.535	535.200	2.836	ND	ND	0.094	0.020	0.000
8/7/06 0:00	15-11	17583	1.173	516.800	3.205	535.200	2.341	ND	ND	0.061	0.016	0.000
8/7/06 12:00	15-12	17584	0.868	520.800	3.088	535.200	1.851	ND	ND	0.067	0.014	0.000
8/8/06 0:00	15-13	17585	1.206	511.200	3.307	536.000	2.410	ND	ND	0.063	0.017	0.000
8/8/06 12:00	15-14	17586	1.063	522.400	3.827	535.200	2.419	ND	ND	0.083	0.019	0.000
8/9/06 0:00	15-15	17587	0.693	520.000	1.902	535.200	1.235	ND	ND	0.036	0.008	0.000
8/9/06 12:00	15-16	17588	1.438	514.400	6.487	535.200	3.498	ND	ND	0.151	0.029	0.000
8/10/06 0:00	15-17	17589	0.729	512.800	42.582	535.200	3.520	ND	ND	1.256	0.039	0.000
8/10/06 12:00	16-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/11/06 0:00	16-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/11/06 12:00	16-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/12/06 0:00	16-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/12/06 12:00	16-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/13/06 0:00	16-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/13/06 12:00	16-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/14/06 0:00	16-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/14/06 12:00	16-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/15/06 0:00	16-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/15/06 12:00	16-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/16/06 0:00	16-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/16/06 12:00	16-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 7: SWS spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
8/17/06 0:00	16-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/17/06 12:00	16-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/18/06 0:00	16-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/18/06 12:00	16-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/19/06 0:00	16-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/19/06 12:00	16-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/20/06 0:00	16-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/20/06 12:00	16-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/21/06 0:00	16-22	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/21/06 12:00	16-23	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/22/06 0:00	17-1	16650	0.403	521.600	1.413	535.200	0.958	ND	ND	0.030	0.008	0.000
8/22/06 12:00	17-2	16651	0.337	517.600	0.973	535.200	0.643	ND	ND	0.019	0.004	0.000
8/23/06 0:00	17-3	16652	0.360	516.800	1.252	535.200	0.713	ND	ND	0.027	0.005	0.000
8/23/06 12:00	17-4	16653	0.320	520.800	1.172	535.200	0.770	ND	ND	0.026	0.006	0.000
8/24/06 0:00	17-5	16654	0.259	521.600	1.072	535.200	0.641	ND	ND	0.024	0.005	0.000
8/24/06 12:00	17-6	16655	0.303	514.400	0.897	535.200	0.536	ND	ND	0.018	0.003	0.000
8/25/06 0:00	17-7	16656	0.214	522.400	0.946	535.200	0.556	ND	ND	0.022	0.005	0.000
8/25/06 12:00	17-8	16657	0.267	521.600	0.806	535.200	0.491	ND	ND	0.016	0.003	0.000
8/26/06 0:00	17-9	16658	0.278	513.600	0.901	535.200	0.510	ND	ND	0.019	0.003	0.000
8/26/06 12:00	17-10	16659	0.249	521.600	1.082	535.200	0.647	ND	ND	0.025	0.006	0.000
8/27/06 0:00	17-11	16660	0.257	510.400	0.868	536.000	0.445	ND	ND	0.018	0.003	0.000
8/27/06 12:00	17-12	16661	0.197	516.800	0.907	535.200	0.571	ND	ND	0.021	0.005	0.000
8/28/06 0:00	17-13	16662	0.311	510.400	0.914	535.200	0.545	ND	ND	0.018	0.003	0.000
8/28/06 12:00	17-14	16663	0.247	518.400	0.766	535.200	0.529	ND	ND	0.016	0.004	0.000
8/29/06 0:00	17-15	16664	0.286	510.400	0.725	535.200	0.446	ND	ND	0.013	0.002	0.000
8/29/06 12:00	17-16	16665	0.277	518.400	1.044	535.200	0.638	ND	ND	0.023	0.005	0.000
8/30/06 0:00	17-17	16666	0.205	510.400	0.670	535.200	0.392	ND	ND	0.014	0.003	0.000
8/30/06 12:00	18-1	17447	1.291	521.600	4.149	535.200	3.126	ND	ND	0.086	0.026	0.000
8/31/06 0:00	18-2	17448	1.632	518.400	4.298	535.200	3.029	ND	ND	0.080	0.020	0.000
8/31/06 12:00	18-3	17449	1.336	512.000	3.708	535.200	2.294	ND	ND	0.071	0.013	0.000
9/1/06 0:00	18-4	17450	1.515	521.600	4.555	535.200	3.611	ND	ND	0.091	0.029	0.000
9/1/06 12:00	18-5	17451	1.525	523.200	6.243	535.200	3.867	ND	ND	0.142	0.033	0.000
9/2/06 0:00	18-6	17452	1.355	523.200	7.540	535.200	4.673	ND	ND	0.186	0.046	0.000
9/2/06 12:00	18-7	17453	1.668	516.800	3.877	535.200	2.828	ND	ND	0.066	0.016	0.000
9/3/06 0:00	18-8	17454	0.975	519.200	2.786	535.200	1.928	ND	ND	0.054	0.013	0.000
9/3/06 12:00	18-9	17455	1.367	518.400	3.323	535.200	2.385	ND	ND	0.059	0.014	0.000
9/4/06 0:00	18-10	17456	0.781	518.400	2.399	535.200	1.423	ND	ND	0.049	0.009	0.000
9/4/06 12:00	18-11	17457	1.397	516.800	2.751	535.200	2.052	ND	ND	0.041	0.009	0.000
9/5/06 0:00	18-12	17458	0.776	524.800	2.587	535.200	2.169	ND	ND	0.054	0.020	0.000
9/5/06 12:00	18-13	17459	0.688	524.000	2.093	535.200	1.561	ND	ND	0.042	0.012	0.000
9/6/06 0:00	18-14	17460	1.542	522.400	3.417	535.200	2.902	ND	ND	0.056	0.019	0.000

Appendix 7: SWS spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
9/6/06 12:00	18-15	17461	0.987	517.600	2.290	535.200	1.860	ND	ND	0.039	0.012	0.000
9/7/06 0:00	18-16	17462	1.350	519.200	2.716	535.200	2.095	ND	ND	0.041	0.010	0.000
9/7/06 12:00	18-17	17463	0.841	520.800	2.753	535.200	2.052	ND	ND	0.057	0.017	0.000
9/8/06 0:00	18-18	17464	0.654	518.400	1.608	535.200	1.147	ND	ND	0.029	0.007	0.000
9/8/06 12:00	19-1	17052	0.301	515.200	0.810	535.200	0.603	ND	ND	0.015	0.004	0.000
9/9/06 0:00	19-2	17052	0.301	515.200	0.810	535.200	0.603	ND	ND	0.015	0.004	0.000
9/9/06 12:00	19-3	17053	0.252	518.400	0.643	535.200	0.452	ND	ND	0.012	0.003	0.000
9/10/06 0:00	19-4	17054	0.278	516.000	1.038	535.200	0.795	ND	ND	0.023	0.007	0.000
9/10/06 12:00	19-5	17055	0.123	515.200	0.363	535.200	0.272	ND	ND	0.007	0.002	0.000
9/11/06 0:00	19-6	17056	0.404	520.000	1.473	535.200	1.144	ND	ND	0.032	0.010	0.000
9/11/06 12:00	19-7	17057	0.163	512.800	0.612	535.200	0.363	ND	ND	0.013	0.003	0.000
9/12/06 0:00	19-8	17058	0.341	524.800	0.914	535.200	0.837	ND	ND	0.017	0.007	0.000
9/12/06 12:00	19-9	17059	0.310	516.800	0.924	535.200	0.582	ND	ND	0.018	0.004	0.000
9/13/06 0:00	19-10	17060	0.518	510.400	1.063	535.200	0.914	ND	ND	0.016	0.006	0.000
9/13/06 12:00	19-11	17061	0.208	524.800	0.874	535.200	0.682	ND	ND	0.020	0.007	0.000
9/14/06 0:00	19-12	17062	0.201	510.400	0.710	535.200	0.544	ND	ND	0.015	0.005	0.000
9/14/06 12:00	19-13	17063	0.555	517.600	1.194	535.200	0.959	ND	ND	0.019	0.006	0.000
9/15/06 0:00	19-14	17064	0.629	518.400	1.515	535.200	1.399	ND	ND	0.027	0.011	0.000
9/15/06 12:00	19-15	17065	0.524	517.600	1.146	535.200	0.973	ND	ND	0.019	0.006	0.000
9/16/06 0:00	19-16	17066	0.403	516.800	1.104	535.200	0.969	ND	ND	0.021	0.008	0.000
9/16/06 12:00	19-17	17067	0.206	521.600	0.602	535.200	0.495	ND	ND	0.012	0.004	0.000
9/17/06 0:00	19-18	17068	0.217	518.400	0.870	535.200	0.564	ND	ND	0.020	0.005	0.000
9/17/06 12:00	19-19	17069	0.489	523.200	1.679	535.200	1.451	ND	ND	0.036	0.013	0.000
9/18/06 0:00	19-20	17069	0.489	523.200	1.679	535.200	1.451	ND	ND	0.036	0.013	0.000
9/18/06 12:00	20-1	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/19/06 0:00	20-2	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/19/06 12:00	20-3	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/20/06 0:00	20-4	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/20/06 12:00	20-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/21/06 0:00	20-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/21/06 12:00	20-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/22/06 0:00	20-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/22/06 12:00	20-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/23/06 0:00	20-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/23/06 12:00	20-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/24/06 0:00	20-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/24/06 12:00	20-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/25/06 0:00	20-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/25/06 12:00	20-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/26/06 0:00	20-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/26/06 12:00	20-17	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A

Appendix 7: SWS spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
9/27/06 0:00	20-18	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/27/06 12:00	20-19	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/28/06 0:00	20-20	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
9/28/06 12:00	21-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/29/06 0:00	21-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/29/06 12:00	21-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/30/06 0:00	21-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/30/06 12:00	21-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/1/06 0:00	21-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/1/06 12:00	21-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/2/06 0:00	21-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/2/06 12:00	21-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/3/06 0:00	21-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/3/06 12:00	21-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/4/06 0:00	21-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/4/06 12:00	21-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/5/06 0:00	21-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/5/06 12:00	21-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/6/06 0:00	21-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/6/06 12:00	21-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/7/06 0:00	21-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/7/06 12:00	21-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/8/06 0:00	21-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/8/06 12:00	21-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/9/06 0:00	21-22	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/9/06 12:00	21-23	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/10/06 0:00	21-24	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/11/06 0:00	22-1	16934	1.036	510.400	10.522	535.200	2.431	ND	ND	0.285	0.020	0.000
10/11/06 12:00	22-2	16935	0.462	516.000	1.455	535.200	0.830	ND	ND	0.030	0.005	0.000
10/12/06 0:00	22-3	16936	1.099	513.600	2.543	535.200	1.953	ND	ND	0.043	0.012	0.000
10/12/06 12:00	22-4	16937	0.908	518.400	2.127	535.200	1.427	ND	ND	0.037	0.007	0.000
10/13/06 0:00	22-5	16938	0.661	520.000	2.000	535.200	1.605	ND	ND	0.040	0.013	0.000
10/13/06 12:00	22-6	16939	0.556	516.000	1.399	535.200	0.920	ND	ND	0.025	0.005	0.000
10/14/06 0:00	22-7	16940	1.990	518.400	4.060	535.200	3.481	ND	ND	0.062	0.021	0.000
10/14/06 12:00	22-8	16941	0.511	511.200	1.800	535.200	0.940	ND	ND	0.039	0.006	0.000
10/15/06 0:00	22-9	16942	0.675	524.800	2.610	535.200	1.981	ND	ND	0.058	0.018	0.000
10/15/06 12:00	22-10	16943	0.595	516.800	1.554	535.200	0.969	ND	ND	0.029	0.005	0.000
10/16/06 0:00	22-11	16944	0.544	510.400	1.460	535.200	0.890	ND	ND	0.027	0.005	0.000
10/16/06 12:00	22-12	16945	0.600	524.800	1.693	535.200	1.532	ND	ND	0.033	0.013	0.000
10/17/06 0:00	22-13	16946	0.696	523.200	2.495	535.200	1.680	ND	ND	0.054	0.014	0.000
10/17/06 12:00	22-14	16947	0.668	519.200	1.588	535.200	1.128	ND	ND	0.028	0.006	0.000

Appendix 7: SWS spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
10/18/06 0:00	22-15	16948	0.728	518.400	2.166	535.200	1.653	ND	ND	0.043	0.013	0.000
10/18/06 12:00	22-16	16949	0.500	524.000	1.654	535.200	1.342	ND	ND	0.035	0.012	0.000
10/19/06 0:00	23-1	16788	1.895	524.800	8.115	535.200	6.743	ND	ND	0.187	0.068	0.000
10/19/06 12:00	23-2	16789	2.055	524.800	5.612	535.200	4.713	ND	ND	0.107	0.037	0.000
10/20/06 0:00	23-3	16790	1.332	518.400	4.548	535.200	3.238	ND	ND	0.096	0.027	0.000
10/20/06 12:00	23-4	16791	1.696	511.200	4.861	535.200	3.539	ND	ND	0.095	0.026	0.000
10/21/06 0:00	23-5	16792	1.409	521.600	5.808	535.200	3.626	ND	ND	0.132	0.031	0.000
10/21/06 12:00	23-6	16793	2.266	516.000	5.540	535.200	4.490	ND	ND	0.098	0.031	0.000
10/22/06 0:00	23-7	16794	1.383	518.400	3.922	535.200	2.953	ND	ND	0.076	0.022	0.000
10/22/06 12:00	23-8	16795	1.346	511.200	4.401	535.200	3.285	ND	ND	0.092	0.027	0.000
10/23/06 0:00	23-9	16796	1.134	518.400	3.594	535.200	2.279	ND	ND	0.074	0.016	0.000
10/23/06 12:00	23-10	16797	1.417	510.400	6.157	535.200	3.270	ND	ND	0.142	0.026	0.000
10/24/06 0:00	23-11	16798	2.323	510.400	9.337	535.200	6.778	ND	ND	0.210	0.062	0.000
10/24/06 12:00	23-12	16799	1.981	524.800	10.728	535.200	9.802	ND	ND	0.262	0.109	0.000
10/25/06 0:00	23-13	16800	2.151	510.400	9.024	535.200	6.156	ND	ND	0.206	0.056	0.000
10/25/06 12:00	23-14	16801	2.584	517.600	8.579	535.200	7.992	ND	ND	0.180	0.076	0.000
10/26/06 0:00	23-15	16802	1.595	524.000	4.220	535.200	4.017	ND	ND	0.079	0.034	0.000
10/26/06 12:00	23-16	16803	1.502	510.400	8.138	535.200	3.873	ND	ND	0.199	0.033	0.000
10/27/06 0:00	23-17	16804	0.870	515.200	2.690	535.200	1.738	ND	ND	0.055	0.012	0.000
10/27/06 12:00	24-1	16117	1.874	516.000	4.293	535.200	2.829	ND	ND	0.073	0.013	0.000
10/28/06 0:00	24-2	16118	1.281	511.200	3.508	535.200	2.142	ND	ND	0.067	0.012	0.000
10/28/06 12:00	24-3	16119	1.492	515.200	4.062	535.200	2.417	ND	ND	0.077	0.013	0.000
10/29/06 0:00	24-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/29/06 12:00	24-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/30/06 0:00	24-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/30/06 12:00	24-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/31/06 0:00	24-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/31/06 12:00	24-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/1/06 0:00	24-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/1/06 12:00	24-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/2/06 0:00	24-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/2/06 12:00	24-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/3/06 0:00	24-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/3/06 12:00	24-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/4/06 0:00	24-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/4/06 12:00	24-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/5/06 0:00	24-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/5/06 12:00	24-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/6/06 0:00	24-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/6/06 12:00	24-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/7/06 0:00	24-22	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 7: SWS spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
11/7/06 12:00	24-23	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/8/06 0:00	25-1	15925	4.695	510.400	13.571	536.000	10.511	ND	ND	0.266	0.081	0.000
11/8/06 12:00	25-2	15926	1.260	510.400	2.520	536.000	1.791	ND	ND	0.038	0.007	0.000
11/9/06 0:00	25-3	15927	5.397	510.400	13.892	535.200	11.262	ND	ND	0.255	0.082	0.000
11/9/06 12:00	25-4	15928	2.697	510.400	6.711	535.200	5.016	ND	ND	0.120	0.032	0.000
11/10/06 0:00	25-5	15929	1.624	510.400	6.665	535.200	4.008	ND	ND	0.151	0.033	0.000
11/10/06 12:00	25-6	15930	1.759	510.400	4.184	535.200	3.452	ND	ND	0.073	0.024	0.000
11/11/06 0:00	25-7	15931	1.773	511.200	5.256	535.200	3.715	ND	ND	0.104	0.027	0.000
11/11/06 12:00	25-8	15932	1.163	515.200	3.271	535.200	2.504	ND	ND	0.063	0.019	0.000
11/12/06 0:00	25-9	15933	1.705	510.400	4.811	535.200	3.948	ND	ND	0.093	0.031	0.000
11/12/06 12:00	25-10	15934	1.065	518.400	2.434	535.200	2.122	ND	ND	0.041	0.015	0.000
11/13/06 0:00	25-11	15935	1.749	510.400	4.270	535.200	3.521	ND	ND	0.076	0.025	0.000
11/13/06 12:00	25-12	15936	1.195	518.400	3.033	535.200	2.753	ND	ND	0.055	0.022	0.000
11/14/06 0:00	25-13	15937	1.544	510.400	4.754	535.200	3.464	ND	ND	0.096	0.027	0.000
11/14/06 12:00	25-14	15938	0.575	510.400	1.846	535.200	1.484	ND	ND	0.038	0.013	0.000
11/15/06 0:00	25-15	15939	0.961	511.200	2.439	535.200	2.051	ND	ND	0.044	0.015	0.000
11/15/06 12:00	25-16	15940	1.136	510.400	2.972	535.200	2.324	ND	ND	0.055	0.017	0.000
11/16/06 0:00	25-17	15941	1.723	516.800	3.420	536.000	3.055	ND	ND	0.051	0.019	0.000
11/16/06 12:00	26-1	16840	0.577	518.400	2.473	535.200	1.737	ND	ND	0.057	0.016	0.000
11/17/06 0:00	26-2	16841	1.205	518.400	3.335	535.200	2.500	ND	ND	0.064	0.018	0.000
11/17/06 12:00	26-3	16942	0.675	524.800	2.610	535.200	1.981	ND	ND	0.058	0.018	0.000
11/18/06 0:00	26-4	16943	0.595	516.800	1.554	535.200	0.969	ND	ND	0.029	0.005	0.000
11/18/06 12:00	26-5	16944	0.544	510.400	1.460	535.200	0.890	ND	ND	0.027	0.005	0.000
11/19/06 0:00	26-6	16945	0.600	524.800	1.693	535.200	1.532	ND	ND	0.033	0.013	0.000
11/19/06 12:00	26-7	16946	0.696	523.200	2.495	535.200	1.680	ND	ND	0.054	0.014	0.000
11/20/06 0:00	26-8	16947	0.668	519.200	1.588	535.200	1.128	ND	ND	0.028	0.006	0.000
11/20/06 12:00	26-9	16948	0.728	518.400	2.166	535.200	1.653	ND	ND	0.043	0.013	0.000
11/21/06 0:00	26-10	16949	0.500	524.000	1.654	535.200	1.342	ND	ND	0.035	0.012	0.000
11/21/06 12:00	26-11	16950	0.731	512.800	2.953	535.200	1.875	ND	ND	0.067	0.016	0.000

Appendix 8: WKB spectrofluorophotometer data.

			m3/sec	*cfs*						*Estimated Mass Recovered (g)*		
	Highest Probable Flow		*1.82*	*64.2*						*3520*	*1545*	*N/A*
	Lowest Probable Flow		*0.90*	*31.8*						*1741*	*764*	*N/A*
	Probable Average Flow		*1.21*	*42.8*						*2349*	*1031*	*N/A*
	Max		*9.320*	*524.800*	*27.036*	*549.600*	*22.542*	*563.200*	*7.224*	*0.629*	*0.257*	*0.087*
	Min		*0.000*	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*	*0.000*
	Count		*475*	*442*	*442*	*441*	*441*	*128*	*128*	*520*	*520*	*520*
Date Time	**Field Sample Number**	**Lab Sample Number**	**Meas. Baseline (MEAS)**	**AY73 Wavelen (MEAS)**	**AY73 Intens (MEAS)**	**AR87 Wavelen (MEAS)**	**AR87 Intens (MEAS)**	**AR92 Wavelen (MEAS)**	**AR92 Intens (MEAS)**	**AY73 PPB (CALC)**	**AR87 PPB (CALC)**	**AR92 PPB (CALC)**
2/1/06 13:15	grab-grab	11165	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/2/06 15:01	grab-grab	11164	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/3/06 10:34	grab-grab	11168	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/4/06 14:44	grab-grab	11169	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/5/06 10:45	grab-grab	11166	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/6/06 11:28	grab-grab	11167	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/7/06 13:40	grab-grab	11566	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/8/06 14:20	grab-grab	11681	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/9/06 12:05	grab-grab	11685	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/10/06 14:14	grab-grab	11691	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/11/06 14:29	grab-grab	11701	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/12/06 15:00	grab-grab	11709	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/15/06 10:55	grab-grab	11771	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/16/06 10:24	grab-grab	11774	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/17/06 13:21	grab-grab	11777	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/18/06 16:03	grab-grab	11783	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/19/06 11:26	grab-grab	11788	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/20/06 14:30	grab-grab	11789	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/22/06 17:45	grab-grab	12627	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/24/06 9:45	grab-grab	12628	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/25/06 16:08	grab-grab	12629	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/26/06 13:00	grab-grab	12630	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/27/06 14:05	grab-grab	12631	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/28/06 11:20	grab-grab	12632	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/1/06 10:45	grab-grab	12633	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/2/06 18:35	grab-grab	12634	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/3/06 16:44	grab-grab	12635	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/4/06 14:47	grab-grab	12636	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000

Appendix 8: WKB spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
3/7/06 10:53	grab-grab	12432	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/8/06 14:05	grab-grab	12438	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/9/06 10:15	grab-grab	12441	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/22/06 13:25	grab-grab	12463	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/23/06 0:00	1-1	12791	0.985	ND	ND	ND	ND	556.000	2.873	0.000	0.000	0.026
3/23/06 12:00	1-2	12792	0.985	ND	ND	ND	ND	559.200	2.659	0.000	0.000	0.023
3/24/06 0:00	1-3	12793	0.985	ND	ND	ND	ND	558.400	2.573	0.000	0.000	0.022
3/24/06 12:00	1-4	12794	0.985	ND	ND	ND	ND	559.200	2.566	0.000	0.000	0.022
3/25/06 0:00	1-5	12795	0.985	ND	ND	ND	ND	559.200	3.279	0.000	0.000	0.032
3/25/06 12:00	1-6	12796	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/26/06 0:00	1-7	12797	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/26/06 12:00	1-8	12798	0.985	ND	ND	ND	ND	555.200	3.531	0.000	0.000	0.036
3/27/06 0:00	1-9	12799	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/27/06 12:00	1-10	12800	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/28/06 0:00	1-11	12801	0.985	ND	ND	ND	ND	555.200	5.505	0.000	0.000	0.063
3/28/06 12:00	1-12	12802	0.985	ND	ND	ND	ND	555.200	4.205	0.000	0.000	0.045
3/29/06 0:00	1-13	12803	0.985	ND	ND	ND	ND	556.000	7.224	0.000	0.000	0.087
3/29/06 12:00	1-14	12804	0.985	ND	ND	ND	ND	556.800	4.176	0.000	0.000	0.045
3/30/06 0:00	1-15	12805	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/30/06 12:00	1-16	12806	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/31/06 0:00	1-17	12807	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/31/06 12:00	2-1	13201	0.985	513.600	7.461	ND	ND	555.200	4.800	0.194	0.000	0.053
4/1/06 0:00	2-2	13202	0.985	512.000	7.479	ND	ND	557.600	4.229	0.195	0.000	0.045
4/1/06 12:00	2-3	13203	0.985	510.400	5.589	ND	ND	556.000	3.273	0.138	0.000	0.032
4/2/06 0:00	2-4	13204	0.985	510.400	4.996	ND	ND	563.200	2.743	0.120	0.000	0.025
4/2/06 12:00	2-5	13205	0.985	511.200	9.540	ND	ND	556.000	5.224	0.257	0.000	0.059
4/3/06 0:00	2-6	13206	0.985	ND	ND	ND	ND	556.800	3.703	0.000	0.000	0.038
4/3/06 12:00	2-7	13207	0.985	511.200	5.280	ND	ND	557.600	3.104	0.129	0.000	0.030
4/4/06 0:00	2-8	13208	0.985	510.400	10.947	ND	ND	555.200	4.969	0.299	0.000	0.056
4/4/06 12:00	2-9	13209	0.985	510.400	7.293	ND	ND	556.800	3.582	0.189	0.000	0.036
4/5/06 0:00	2-10	13210	0.985	510.400	5.405	ND	ND	561.600	2.912	0.133	0.000	0.027
4/5/06 12:00	2-11	13211	0.985	512.000	5.068	ND	ND	559.200	2.970	0.122	0.000	0.028
4/6/06 0:00	2-12	13212	0.985	510.400	12.942	ND	ND	556.000	5.352	0.359	0.000	0.061
4/6/06 12:00	2-13	13213	0.985	510.400	9.092	ND	ND	555.200	4.330	0.243	0.000	0.047
4/7/06 0:00	2-14	13214	0.985	510.400	7.058	ND	ND	555.200	3.684	0.182	0.000	0.038
4/7/06 12:00	2-15	13215	0.985	516.800	5.276	ND	ND	556.800	3.062	0.129	0.000	0.029
4/8/06 0:00	3-1	13187	2.541	510.400	7.115	ND	ND	556.000	3.962	0.137	0.000	0.020
4/8/06 12:00	3-2	13188	3.182	512.000	8.272	ND	ND	ND	ND	0.153	0.000	0.000
4/9/06 0:00	3-3	13189	3.240	510.400	10.736	ND	ND	555.200	4.931	0.225	0.000	0.024
4/9/06 12:00	3-4	13190	2.756	511.200	7.302	ND	ND	ND	ND	0.136	0.000	0.000
4/10/06 0:00	3-5	13191	2.896	510.400	8.310	ND	ND	ND	ND	0.162	0.000	0.000

Appendix 8: WKB spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
4/10/06 12:00	3-6	13192	2.348	513.600	6.348	ND	ND	ND	ND	0.120	0.000	0.000
4/11/06 0:00	3-7	13193	1.073	510.400	6.238	ND	ND	ND	ND	0.155	0.000	0.000
4/11/06 12:00	3-8	13194	2.790	516.800	6.205	536.000	4.653	ND	ND	0.102	0.026	0.000
4/12/06 0:00	3-9	13195	2.919	512.000	8.100	ND	ND	ND	ND	0.155	0.000	0.000
4/12/06 12:00	3-10	13196	2.623	513.600	6.689	ND	ND	ND	ND	0.122	0.000	0.000
4/13/06 0:00	3-11	13197	1.302	514.400	7.484	538.400	6.394	ND	ND	0.185	0.071	0.000
4/13/06 12:00	3-12	13198	1.142	512.800	6.147	540.800	5.499	ND	ND	0.150	0.061	0.000
4/14/06 0:00	3-13	13199	1.303	510.400	6.566	536.000	5.945	ND	ND	0.158	0.065	0.000
4/14/06 12:00	3-14	13200	1.037	516.000	6.760	540.800	6.046	ND	ND	0.172	0.070	0.000
4/15/06 0:00	4-1	13298	2.642	518.400	7.699	541.600	6.752	ND	ND	0.152	0.058	0.000
4/15/06 12:00	4-2	13299	0.938	511.200	6.771	538.400	6.161	ND	ND	0.175	0.073	0.000
4/16/06 0:00	4-3	13300	2.462	514.400	8.516	536.000	7.413	ND	ND	0.182	0.069	0.000
4/16/06 12:00	4-4	13301	2.358	515.200	8.208	536.800	7.433	ND	ND	0.176	0.071	0.000
4/17/06 0:00	4-5	13302	2.847	514.400	10.909	537.600	9.628	ND	ND	0.242	0.095	0.000
4/17/06 12:00	4-6	13303	1.195	515.200	7.080	540.000	7.750	ND	ND	0.177	0.092	0.000
4/18/06 0:00	4-7	13304	0.969	518.400	7.192	538.400	7.995	ND	ND	0.187	0.098	0.000
4/18/06 12:00	4-8	13305	1.126	514.400	8.732	540.800	8.649	ND	ND	0.228	0.105	0.000
4/19/06 0:00	4-9	13306	1.105	520.000	8.594	540.800	9.147	ND	ND	0.225	0.113	0.000
4/19/06 12:00	4-10	13307	1.182	518.400	9.444	541.600	9.647	ND	ND	0.248	0.119	0.000
4/20/06 0:00	4-11	13308	2.537	516.000	10.452	542.400	10.041	ND	ND	0.237	0.105	0.000
4/20/06 12:00	4-12	13309	0.978	514.400	9.473	539.200	10.424	ND	ND	0.255	0.132	0.000
4/21/06 0:00	4-13	13310	1.310	517.600	9.303	542.400	10.543	ND	ND	0.240	0.129	0.000
4/21/06 12:00	4-14	13311	2.535	519.200	10.487	541.600	10.962	ND	ND	0.239	0.118	0.000
4/22/06 0:00	5-1	13719	3.276	517.600	12.981	540.800	12.908	ND	ND	0.291	0.135	0.000
4/22/06 12:00	5-2	13720	1.107	516.000	9.984	542.400	10.603	ND	ND	0.266	0.133	0.000
4/23/06 0:00	5-3	13721	1.105	514.400	10.082	539.200	10.728	ND	ND	0.269	0.135	0.000
4/23/06 12:00	5-4	13722	1.639	519.200	9.991	540.000	11.204	ND	ND	0.251	0.134	0.000
4/24/06 0:00	5-5	13723	1.093	516.000	10.301	541.600	12.033	ND	ND	0.276	0.153	0.000
4/24/06 12:00	5-6	13724	2.151	516.800	10.885	539.200	12.638	ND	ND	0.262	0.147	0.000
4/25/06 0:00	5-7	13725	1.458	520.000	11.380	540.000	12.857	ND	ND	0.298	0.160	0.000
4/25/06 12:00	5-8	13726	1.332	516.800	9.965	540.800	12.855	ND	ND	0.259	0.161	0.000
4/26/06 0:00	5-9	13727	1.159	517.600	10.005	542.400	13.581	ND	ND	0.265	0.174	0.000
4/26/06 12:00	5-10	13728	1.381	519.200	11.943	541.600	14.084	ND	ND	0.317	0.178	0.000
4/27/06 0:00	5-11	13729	1.302	516.000	13.427	540.800	15.901	ND	ND	0.364	0.204	0.000
4/27/06 12:00	5-12	13730	1.126	519.200	12.456	541.600	15.376	ND	ND	0.340	0.200	0.000
4/28/06 0:00	5-13	13731	1.200	519.200	11.334	542.400	14.712	ND	ND	0.304	0.189	0.000
4/28/06 12:00	5-14	13732	1.263	518.400	10.748	539.200	14.673	ND	ND	0.285	0.188	0.000
4/29/06 0:00	6-1	13902	0.966	520.000	11.522	540.800	15.305	ND	ND	0.317	0.201	0.000
4/29/06 12:00	6-2	13903	1.277	520.800	12.383	540.000	16.080	ND	ND	0.333	0.207	0.000
4/30/06 0:00	6-3	13904	2.395	516.800	17.246	541.600	20.732	ND	ND	0.446	0.257	0.000
4/30/06 12:00	6-4	13905	1.272	521.600	12.257	540.800	16.625	ND	ND	0.330	0.215	0.000

Appendix 8: WKB spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
5/1/06 0:00	6-5	13906	1.210	516.000	13.347	540.000	16.914	ND	ND	0.364	0.220	0.000
5/1/06 12:00	6-6	13907	1.508	519.200	15.048	540.800	19.366	ND	ND	0.406	0.250	0.000
5/2/06 0:00	6-7	13908	1.208	518.400	13.452	541.600	17.254	ND	ND	0.367	0.225	0.000
5/2/06 12:00	6-8	13909	1.342	516.000	15.747	540.000	18.771	ND	ND	0.432	0.244	0.000
5/3/06 0:00	6-9	13910	4.098	524.000	15.965	541.600	19.612	ND	ND	0.356	0.217	0.000
5/3/06 12:00	6-10	13911	1.305	520.800	13.568	540.000	18.254	ND	ND	0.368	0.237	0.000
5/4/06 0:00	6-11	13912	3.728	517.600	12.931	541.600	18.249	ND	ND	0.276	0.203	0.000
5/4/06 12:00	6-12	13913	5.535	520.000	19.472	541.600	21.199	ND	ND	0.418	0.219	0.000
5/5/06 0:00	6-13	13914	3.575	522.400	13.819	540.800	18.500	ND	ND	0.307	0.209	0.000
5/5/06 12:00	6-14	13915	4.024	517.600	15.060	540.000	19.146	ND	ND	0.331	0.212	0.000
5/6/06 0:00	7-1	14148	2.791	514.400	14.802	541.600	18.443	ND	ND	0.360	0.219	0.000
5/6/06 12:00	7-2	14149	1.680	519.200	14.287	542.400	19.631	ND	ND	0.378	0.251	0.000
5/7/06 0:00	7-3	14150	2.006	524.000	14.637	541.600	19.315	ND	ND	0.379	0.242	0.000
5/7/06 12:00	7-4	14151	1.859	520.800	13.645	543.200	18.204	ND	ND	0.354	0.229	0.000
5/8/06 0:00	7-5	14152	2.165	516.000	15.062	540.800	18.810	ND	ND	0.387	0.233	0.000
5/8/06 12:00	7-6	14153	1.643	524.800	12.574	540.000	17.379	ND	ND	0.328	0.220	0.000
5/9/06 0:00	7-7	14154	1.675	524.800	13.319	543.200	17.326	ND	ND	0.349	0.219	0.000
5/9/06 12:00	7-8	14155	2.222	524.800	14.109	544.800	18.360	ND	ND	0.357	0.226	0.000
5/10/06 0:00	7-9	14156	4.590	521.600	17.108	541.600	20.789	ND	ND	0.376	0.227	0.000
5/10/06 12:00	7-10	14157	2.241	524.000	11.837	542.400	17.537	ND	ND	0.288	0.214	0.000
5/11/06 0:00	7-11	14158	4.320	516.000	13.603	542.400	18.752	ND	ND	0.278	0.202	0.000
5/11/06 12:00	7-12	14159	4.427	522.400	16.017	540.000	20.239	ND	ND	0.348	0.221	0.000
5/12/06 0:00	7-13	14160	4.615	517.600	16.024	542.400	18.936	ND	ND	0.342	0.200	0.000
5/12/06 12:00	7-14	14161	4.877	518.400	16.209	539.200	20.230	ND	ND	0.340	0.215	0.000
5/13/06 0:00	7-15	14162	4.382	524.000	15.140	540.800	18.412	ND	ND	0.323	0.196	0.000
5/13/06 12:00	7-16	14163	4.601	517.600	15.657	540.800	18.729	ND	ND	0.332	0.198	0.000
5/14/06 0:00	8-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/14/06 12:00	8-2	14015	6.028	515.200	24.249	540.000	22.016	ND	ND	0.547	0.224	0.000
5/15/06 0:00	8-3	14016	5.038	514.400	23.535	539.200	20.697	ND	ND	0.555	0.219	0.000
5/15/06 12:00	8-4	14017	4.271	516.800	16.773	542.400	16.343	ND	ND	0.375	0.169	0.000
5/16/06 0:00	8-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/16/06 12:00	8-6	14018	6.085	512.000	27.036	539.200	22.542	ND	ND	0.629	0.230	0.000
5/17/06 0:00	8-7	14019	0.916	516.000	9.755	540.800	12.446	ND	ND	0.265	0.161	0.000
5/17/06 12:00	8-8	14020	3.111	516.000	11.984	540.000	12.927	ND	ND	0.266	0.137	0.000
5/18/06 0:00	8-9	14021	0.865	520.800	9.898	542.400	12.863	ND	ND	0.271	0.168	0.000
5/18/06 12:00	8-10	14022	3.375	519.200	11.404	538.400	12.889	ND	ND	0.241	0.133	0.000
5/19/06 0:00	8-11	14023	1.069	519.200	8.786	540.000	11.741	ND	ND	0.232	0.149	0.000
5/19/06 12:00	8-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/20/06 0:00	8-13	14024	3.060	519.200	11.992	538.400	12.875	ND	ND	0.268	0.137	0.000
5/20/06 12:00	8-14	14025	3.330	517.600	12.611	540.000	13.961	ND	ND	0.278	0.149	0.000
5/21/06 0:00	8-15	14026	3.340	519.200	13.276	542.400	13.920	ND	ND	0.298	0.148	0.000

Appendix 8: WKB spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
5/21/06 12:00	8-16	14027	3.076	515.200	10.767	540.000	12.726	ND	ND	0.231	0.135	0.000
5/22/06 0:00	8-17	14028	0.859	515.200	8.993	542.400	10.630	ND	ND	0.244	0.137	0.000
5/22/06 12:00	8-18	14029	3.784	515.200	14.354	539.200	13.648	ND	ND	0.317	0.138	0.000
5/23/06 0:00	8-19	14030	1.644	514.400	8.624	541.600	10.602	ND	ND	0.209	0.125	0.000
5/23/06 12:00	8-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
5/24/06 0:00	9-1	14106	2.800	515.200	10.878	540.000	13.632	ND	ND	0.242	0.152	0.000
5/24/06 12:00	9-2	14107	4.006	518.400	16.998	540.000	16.544	ND	ND	0.390	0.176	0.000
5/25/06 0:00	9-3	14108	1.257	518.400	8.886	542.400	11.975	ND	ND	0.229	0.150	0.000
5/25/06 12:00	9-4	14109	1.520	524.000	11.112	543.200	12.539	ND	ND	0.288	0.154	0.000
5/26/06 0:00	9-5	14110	1.074	520.800	8.908	540.000	11.615	ND	ND	0.235	0.148	0.000
5/26/06 12:00	9-6	14111	1.505	524.000	8.988	541.600	12.411	ND	ND	0.224	0.153	0.000
5/27/06 0:00	9-7	14112	1.478	520.000	9.212	540.800	12.237	ND	ND	0.232	0.151	0.000
5/27/06 12:00	9-8	14113	2.424	516.800	9.660	542.400	12.058	ND	ND	0.217	0.135	0.000
5/28/06 0:00	9-9	14114	4.398	516.800	13.802	537.600	13.964	ND	ND	0.282	0.134	0.000
5/28/06 12:00	9-10	14115	4.759	515.200	14.288	541.600	15.369	ND	ND	0.286	0.149	0.000
5/29/06 0:00	9-11	14116	2.346	516.000	9.389	543.200	12.243	ND	ND	0.211	0.139	0.000
5/29/06 12:00	9-12	14117	1.802	513.600	10.238	543.200	12.910	ND	ND	0.253	0.156	0.000
5/30/06 0:00	9-13	14118	1.521	516.800	9.176	541.600	12.143	ND	ND	0.230	0.149	0.000
5/30/06 12:00	9-14	14119	1.781	518.400	8.579	541.600	11.525	ND	ND	0.204	0.136	0.000
5/31/06 0:00	10-1	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/31/06 12:00	10-2	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/1/06 0:00	10-3	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/1/06 12:00	10-4	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/2/06 0:00	10-5	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/2/06 12:00	10-6	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/3/06 0:00	10-7	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/3/06 12:00	10-8	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/4/06 0:00	10-9	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/4/06 12:00	10-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/5/06 0:00	10-11	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/5/06 12:00	10-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/6/06 0:00	10-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/6/06 12:00	11-1	15057	3.700	524.800	5.820	549.600	6.814	ND	ND	0.064	0.044	0.000
6/7/06 0:00	11-2	15058	4.774	524.800	6.323	549.600	7.071	ND	ND	0.046	0.032	0.000
6/7/06 12:00	11-3	15059	3.152	524.800	5.197	545.600	6.095	ND	ND	0.061	0.041	0.000
6/8/06 0:00	11-4	15060	3.686	524.800	5.926	540.800	6.398	ND	ND	0.067	0.038	0.000
6/8/06 12:00	11-5	15061	3.028	524.800	4.851	544.800	5.636	ND	ND	0.055	0.037	0.000
6/9/06 0:00	11-6	15062	6.531	524.800	17.458	535.200	17.952	ND	ND	0.328	0.160	0.000
6/9/06 12:00	11-7	15063	3.872	524.800	6.106	546.400	6.935	ND	ND	0.067	0.043	0.000
6/10/06 0:00	11-8	15064	4.040	524.800	6.465	544.000	7.147	ND	ND	0.073	0.043	0.000
6/10/06 12:00	11-9	15065	3.500	524.800	5.375	538.400	5.972	ND	ND	0.056	0.035	0.000

Appendix 8: WKB spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
6/11/06 0:00	11-10	15066	3.448	524.800	5.580	540.800	6.208	ND	ND	0.064	0.039	0.000
6/11/06 12:00	11-11	15067	3.199	524.800	5.537	545.600	6.387	ND	ND	0.070	0.045	0.000
6/12/06 0:00	11-12	15068	3.242	524.800	5.395	536.800	6.010	ND	ND	0.065	0.039	0.000
6/12/06 12:00	11-13	15069	3.813	524.800	6.525	538.400	7.014	ND	ND	0.081	0.045	0.000
6/13/06 0:00	11-14	15070	2.933	524.800	4.834	544.000	5.461	ND	ND	0.057	0.035	0.000
6/13/06 12:00	11-15	15071	2.871	524.800	5.445	536.800	5.847	ND	ND	0.077	0.042	0.000
6/14/06 0:00	11-16	15072	4.539	524.800	5.377	549.600	6.457	ND	ND	0.025	0.027	0.000
6/14/06 12:00	11-17	15073	3.603	524.800	5.195	549.600	5.880	ND	ND	0.048	0.032	0.000
6/15/06 0:00	12-1	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/15/06 12:00	12-2	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/16/06 0:00	12-3	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/16/06 12:00	12-4	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/17/06 0:00	12-5	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/17/06 12:00	12-6	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/18/06 0:00	12-7	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/18/06 12:00	12-8	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/19/06 0:00	12-9	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/19/06 12:00	12-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/20/06 0:00	12-11	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/20/06 12:00	13-1	14909	3.663	524.800	5.883	535.200	6.323	ND	ND	0.067	0.037	0.000
6/21/06 0:00	13-2	14910	2.585	524.800	4.741	540.800	5.149	ND	ND	0.065	0.036	0.000
6/21/06 12:00	13-3	14911	7.909	524.800	14.777	536.000	15.333	ND	ND	0.206	0.104	0.000
6/22/06 0:00	13-4	14912	9.320	524.800	18.627	535.200	18.738	ND	ND	0.279	0.132	0.000
6/22/06 12:00	13-5	14913	3.423	524.800	5.884	542.400	6.277	ND	ND	0.074	0.040	0.000
6/23/06 0:00	13-6	14914	2.768	524.800	5.071	538.400	5.480	ND	ND	0.069	0.038	0.000
6/23/06 12:00	13-7	14915	2.991	524.800	9.096	535.200	9.636	ND	ND	0.183	0.093	0.000
6/24/06 0:00	13-8	14916	4.536	524.800	7.111	536.000	7.383	ND	ND	0.077	0.040	0.000
6/24/06 12:00	13-9	14917	4.360	524.800	6.839	535.200	7.263	ND	ND	0.074	0.041	0.000
6/25/06 0:00	13-10	14918	3.615	524.800	6.605	536.000	6.974	ND	ND	0.090	0.047	0.000
6/25/06 12:00	13-11	14919	2.926	524.800	4.437	549.600	5.421	ND	ND	0.045	0.035	0.000
6/26/06 0:00	13-12	14920	2.571	524.800	3.406	549.600	5.237	ND	ND	0.025	0.037	0.000
6/26/06 12:00	13-13	14921	3.501	524.800	5.841	544.800	6.321	ND	ND	0.070	0.039	0.000
6/27/06 0:00	13-14	14922	3.172	524.800	3.864	549.600	5.247	ND	ND	0.021	0.029	0.000
6/27/06 12:00	14-1	17344	0.049	511.200	0.244	537.600	0.199	ND	ND	0.006	0.002	0.000
6/28/06 0:00	14-2	17345	0.042	514.400	0.223	535.200	0.168	ND	ND	0.005	0.002	0.000
6/28/06 12:00	14-3	17347	0.026	511.200	0.245	537.600	0.181	ND	ND	0.007	0.002	0.000
6/29/06 0:00	14-4	17346	0.099	513.600	0.501	535.200	0.320	ND	ND	0.012	0.003	0.000
6/29/06 12:00	14-5	17348	0.056	516.800	0.300	535.200	0.264	ND	ND	0.007	0.003	0.000
6/30/06 0:00	14-6	17349	0.044	516.000	0.193	536.000	0.193	ND	ND	0.004	0.002	0.000
6/30/06 12:00	14-7	17350	0.025	510.400	0.285	535.200	0.188	ND	ND	0.008	0.002	0.000
7/1/06 0:00	14-8	17351	0.021	510.400	0.317	537.600	0.167	ND	ND	0.009	0.002	0.000

Appendix 8: WKB spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
7/1/06 12:00	14-9	17352	0.045	515.200	0.270	536.000	0.209	ND	ND	0.007	0.002	0.000
7/2/06 0:00	14-10	17353	0.037	515.200	0.259	536.800	0.186	ND	ND	0.007	0.002	0.000
7/2/06 12:00	14-11	17354	0.067	518.400	0.420	535.200	0.303	ND	ND	0.011	0.003	0.000
7/3/06 0:00	14-12	17355	0.078	511.200	0.317	538.400	0.185	ND	ND	0.007	0.001	0.000
7/3/06 12:00	14-13	17356	0.077	511.200	0.502	536.000	0.335	ND	ND	0.013	0.004	0.000
7/4/06 0:00	14-14	17357	0.045	510.400	0.353	535.200	0.164	ND	ND	0.009	0.002	0.000
7/4/06 12:00	14-15	17358	0.052	518.400	0.379	535.200	0.244	ND	ND	0.010	0.003	0.000
7/5/06 0:00	14-16	17359	0.025	517.600	0.173	538.400	0.184	ND	ND	0.004	0.002	0.000
7/5/06 12:00	14-17	17360	0.056	510.400	0.492	535.200	0.249	ND	ND	0.013	0.003	0.000
7/6/06 0:00	14-18	17361	0.104	524.000	0.344	535.200	0.271	ND	ND	0.007	0.002	0.000
7/6/06 12:00	14-19	17362	0.059	514.400	0.340	535.200	0.193	ND	ND	0.008	0.002	0.000
7/7/06 0:00	14-20	17363	0.043	513.600	0.328	535.200	0.207	ND	ND	0.009	0.002	0.000
7/7/06 12:00	14-21	17364	0.095	510.400	0.415	536.000	0.279	ND	ND	0.010	0.003	0.000
7/8/06 0:00	14-22	17365	0.043	517.600	0.321	535.200	0.185	ND	ND	0.008	0.002	0.000
7/8/06 12:00	14-23	17366	0.065	512.800	0.395	537.600	0.187	ND	ND	0.010	0.002	0.000
7/9/06 0:00	14-24	17366	0.065	512.800	0.395	537.600	0.187	ND	ND	0.010	0.002	0.000
7/9/06 12:00	14-25	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
7/10/06 0:00	14-26	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
7/10/06 12:00	15-1	17747	1.960	510.400	4.476	535.200	3.131	ND	ND	0.075	0.016	0.000
7/11/06 0:00	15-2	17748	1.769	514.400	4.564	535.200	3.251	ND	ND	0.084	0.021	0.000
7/11/06 12:00	15-3	17749	1.100	510.400	3.716	535.200	2.225	ND	ND	0.078	0.016	0.000
7/12/06 0:00	15-4	17750	1.773	510.400	4.194	536.000	2.930	ND	ND	0.073	0.016	0.000
7/12/06 12:00	15-5	17751	2.270	512.800	6.083	535.200	3.951	ND	ND	0.114	0.024	0.000
7/13/06 0:00	15-6	17752	1.490	510.400	4.505	535.200	2.836	ND	ND	0.090	0.019	0.000
7/13/06 12:00	15-7	17753	1.289	510.400	3.902	535.200	2.273	ND	ND	0.078	0.014	0.000
7/14/06 0:00	15-8	17754	1.401	518.400	3.181	535.200	2.551	ND	ND	0.053	0.016	0.000
7/14/06 12:00	15-9	17755	1.185	510.400	3.721	535.200	2.175	ND	ND	0.076	0.014	0.000
7/15/06 0:00	15-10	17756	1.155	510.400	3.244	535.200	2.017	ND	ND	0.063	0.012	0.000
7/15/06 12:00	15-11	17757	0.946	511.200	3.614	535.200	2.020	ND	ND	0.080	0.015	0.000
7/16/06 0:00	15-12	17758	0.784	510.400	3.145	535.200	1.639	ND	ND	0.071	0.012	0.000
7/16/06 12:00	15-13	17759	1.077	510.400	2.895	535.200	1.773	ND	ND	0.055	0.010	0.000
7/17/06 0:00	15-14	17761	0.601	510.400	2.453	535.200	1.219	ND	ND	0.056	0.009	0.000
7/17/06 12:00	15-15	17760	0.776	511.200	2.225	535.200	1.382	ND	ND	0.043	0.008	0.000
7/18/06 0:00	15-16	17762	0.624	510.400	1.997	535.200	1.161	ND	ND	0.041	0.008	0.000
7/18/06 12:00	15-17	17763	0.631	510.400	1.892	535.200	1.084	ND	ND	0.038	0.006	0.000
7/19/06 0:00	16-1	17649	0.099	510.400	0.466	535.200	0.252	ND	ND	0.011	0.002	0.000
7/19/06 12:00	16-2	17650	0.294	510.400	1.350	535.200	0.589	ND	ND	0.032	0.004	0.000
7/20/06 0:00	16-3	17652	0.132	510.400	0.458	536.000	0.241	ND	ND	0.010	0.002	0.000
7/20/06 12:00	16-4	17653	0.150	510.400	0.558	535.200	0.287	ND	ND	0.012	0.002	0.000
7/21/06 0:00	16-5	17654	0.132	510.400	0.521	535.200	0.283	ND	ND	0.012	0.002	0.000
7/21/06 12:00	16-6	17655	0.202	510.400	0.630	535.200	0.376	ND	ND	0.013	0.002	0.000

Appendix 8: WKB spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
7/22/06 0:00	16-7	17656	0.165	512.000	0.513	535.200	0.312	ND	ND	0.010	0.002	0.000
7/22/06 12:00	16-8	17657	0.201	510.400	0.553	535.200	0.345	ND	ND	0.011	0.002	0.000
7/23/06 0:00	16-9	17658	0.074	512.000	0.422	535.200	0.228	ND	ND	0.010	0.002	0.000
7/23/06 12:00	16-10	17659	0.071	510.400	0.406	536.000	0.182	ND	ND	0.010	0.002	0.000
7/24/06 0:00	16-11	17660	0.098	512.800	0.387	536.000	0.199	ND	ND	0.009	0.001	0.000
7/24/06 12:00	16-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/25/06 0:00	16-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/25/06 12:00	16-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/26/06 0:00	17-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/26/06 12:00	17-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/27/06 0:00	17-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/27/06 12:00	17-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/28/06 0:00	17-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/28/06 12:00	17-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/29/06 0:00	17-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/29/06 12:00	17-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/30/06 0:00	17-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/30/06 12:00	17-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/31/06 0:00	17-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
7/31/06 12:00	17-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/1/06 0:00	17-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/1/06 12:00	17-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/2/06 0:00	18-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/2/06 12:00	18-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/3/06 0:00	18-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/3/06 12:00	18-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/4/06 0:00	18-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/4/06 12:00	18-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/5/06 0:00	18-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/5/06 12:00	18-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/6/06 0:00	18-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/6/06 12:00	18-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/7/06 0:00	18-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/7/06 12:00	18-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/8/06 0:00	18-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/8/06 12:00	18-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/9/06 0:00	18-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/9/06 12:00	18-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/10/06 0:00	18-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/10/06 12:00	18-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/11/06 0:00	18-19	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A

Appendix 8: WKB spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
8/11/06 12:00	18-20	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
8/12/06 0:00	18-21	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
8/12/06 12:00	18-22	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
8/13/06 0:00	18-23	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
8/13/06 12:00	18-24	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
8/14/06 0:00	18-25	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
8/14/06 12:00	19-1	16467	0.097	512.000	0.475	535.200	0.210	ND	ND	0.011	0.002	0.000
8/15/06 0:00	19-2	16468	0.107	513.600	0.470	535.200	0.231	ND	ND	0.011	0.002	0.000
8/15/06 12:00	19-3	16469	0.146	513.600	0.663	535.200	0.341	ND	ND	0.016	0.003	0.000
8/16/06 0:00	19-4	16470	0.102	510.400	0.626	535.200	0.258	ND	ND	0.016	0.002	0.000
8/16/06 12:00	19-5	16471	0.093	522.400	0.567	535.200	0.343	ND	ND	0.014	0.004	0.000
8/17/06 0:00	19-6	16472	0.052	511.200	0.336	535.200	0.152	ND	ND	0.009	0.001	0.000
8/17/06 12:00	19-7	16473	0.249	514.400	0.723	535.200	0.501	ND	ND	0.014	0.004	0.000
8/18/06 0:00	19-8	16474	0.099	519.200	0.603	535.200	0.344	ND	ND	0.015	0.003	0.000
8/18/06 12:00	19-9	16475	0.098	510.400	0.521	536.000	0.200	ND	ND	0.013	0.001	0.000
8/19/06 0:00	19-10	16476	0.102	510.400	0.562	535.200	0.192	ND	ND	0.014	0.001	0.000
8/19/06 12:00	19-11	16477	0.086	511.200	0.443	535.200	0.207	ND	ND	0.011	0.002	0.000
8/20/06 0:00	19-12	16478	0.091	510.400	0.460	535.200	0.204	ND	ND	0.011	0.002	0.000
8/20/06 12:00	19-13	16479	0.119	510.400	0.505	535.200	0.239	ND	ND	0.012	0.002	0.000
8/21/06 0:00	19-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
8/21/06 12:00	19-15	16480	0.104	520.000	0.572	535.200	0.312	ND	ND	0.014	0.003	0.000
8/22/06 0:00	20-1	16632	0.341	511.200	1.590	535.200	0.648	ND	ND	0.037	0.004	0.000
8/22/06 12:00	20-2	16633	0.725	511.200	2.505	535.200	1.255	ND	ND	0.053	0.007	0.000
8/23/06 0:00	20-3	16634	0.650	510.400	2.327	535.200	1.266	ND	ND	0.050	0.009	0.000
8/23/06 12:00	20-4	16635	0.732	510.400	2.456	535.200	1.237	ND	ND	0.052	0.007	0.000
8/24/06 0:00	20-5	16636	0.710	510.400	2.556	535.200	1.131	ND	ND	0.055	0.006	0.000
8/24/06 12:00	20-6	16637	0.486	510.400	1.749	535.200	0.942	ND	ND	0.038	0.006	0.000
8/25/06 0:00	20-7	16638	0.562	510.400	1.922	535.200	0.938	ND	ND	0.041	0.005	0.000
8/25/06 12:00	20-8	16639	0.437	513.600	1.493	535.200	0.851	ND	ND	0.032	0.006	0.000
8/26/06 0:00	20-9	16640	0.528	511.200	1.747	535.200	0.949	ND	ND	0.037	0.006	0.000
8/26/06 12:00	20-10	16641	0.477	510.400	1.728	535.200	0.862	ND	ND	0.038	0.005	0.000
8/27/06 0:00	20-11	16642	1.163	510.400	2.791	535.200	1.887	ND	ND	0.049	0.010	0.000
8/27/06 12:00	20-12	16643	0.446	522.400	1.876	535.200	1.098	ND	ND	0.043	0.009	0.000
8/28/06 0:00	20-13	16644	0.647	522.400	1.840	535.200	1.282	ND	ND	0.036	0.009	0.000
8/28/06 12:00	20-14	16645	0.366	511.200	1.781	535.200	0.725	ND	ND	0.042	0.005	0.000
8/29/06 0:00	20-15	16646	0.368	521.600	1.440	535.200	0.969	ND	ND	0.032	0.008	0.000
8/29/06 12:00	20-16	16647	0.311	511.200	1.379	535.200	0.682	ND	ND	0.032	0.005	0.000
8/30/06 0:00	20-17	16648	0.401	511.200	1.604	535.200	0.797	ND	ND	0.036	0.006	0.000
8/30/06 12:00	21-1	17485	0.160	512.000	0.744	535.200	0.404	ND	ND	0.018	0.003	0.000
8/31/06 0:00	21-2	17486	0.219	519.200	0.828	535.200	0.506	ND	ND	0.018	0.004	0.000
8/31/06 12:00	21-3	17487	0.270	522.400	0.933	535.200	0.766	ND	ND	0.020	0.007	0.000

Appendix 8: WKB spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
9/1/06 0:00	21-4	17488	0.202	510.400	0.757	535.200	0.434	ND	ND	0.017	0.003	0.000
9/1/06 12:00	21-5	17489	0.140	510.400	0.572	536.000	0.305	ND	ND	0.013	0.002	0.000
9/2/06 0:00	21-6	17490	0.318	511.200	0.933	535.200	0.619	ND	ND	0.018	0.004	0.000
9/2/06 12:00	21-7	17491	0.163	518.400	0.654	535.200	0.340	ND	ND	0.015	0.002	0.000
9/3/06 0:00	21-8	17492	0.125	510.400	0.772	535.200	0.276	ND	ND	0.019	0.002	0.000
9/3/06 12:00	21-9	17493	0.178	510.400	0.640	535.200	0.344	ND	ND	0.014	0.002	0.000
9/4/06 0:00	21-10	17494	0.141	518.400	0.447	535.200	0.277	ND	ND	0.009	0.002	0.000
9/4/06 12:00	21-11	17495	0.153	510.400	0.743	535.200	0.321	ND	ND	0.018	0.002	0.000
9/5/06 0:00	21-12	17496	0.175	510.400	0.640	535.200	0.302	ND	ND	0.014	0.002	0.000
9/5/06 12:00	21-13	17497	0.123	520.000	0.561	535.200	0.366	ND	ND	0.013	0.003	0.000
9/6/06 0:00	21-14	17498	0.141	519.200	0.582	535.200	0.328	ND	ND	0.013	0.003	0.000
9/6/06 12:00	21-15	17499	0.506	520.000	1.086	535.200	0.932	ND	ND	0.017	0.006	0.000
9/7/06 0:00	21-16	17500	0.149	510.400	0.699	535.200	0.326	ND	ND	0.017	0.002	0.000
9/7/06 12:00	21-17	17501	0.164	524.800	0.739	535.200	0.574	ND	ND	0.017	0.006	0.000
9/8/06 0:00	21-18	17502	0.123	518.400	0.398	535.200	0.249	ND	ND	0.008	0.002	0.000
9/8/06 12:00	22-1	17017	0.268	520.800	0.758	535.200	0.518	ND	ND	0.015	0.004	0.000
9/9/06 0:00	22-2	17018	0.444	524.800	2.542	535.200	2.388	ND	ND	0.063	0.027	0.000
9/9/06 12:00	22-3	17019	0.726	510.400	1.695	535.200	1.314	ND	ND	0.029	0.008	0.000
9/10/06 0:00	22-4	17020	0.348	516.000	0.994	535.200	0.644	ND	ND	0.019	0.004	0.000
9/10/06 12:00	22-5	17021	0.297	523.200	1.324	535.200	1.137	ND	ND	0.031	0.012	0.000
9/11/06 0:00	22-6	17022	0.597	511.200	1.401	535.200	0.999	ND	ND	0.024	0.006	0.000
9/11/06 12:00	22-7	17023	0.317	524.800	1.520	535.200	1.433	ND	ND	0.036	0.016	0.000
9/12/06 0:00	22-8	17024	0.409	510.400	1.809	535.200	1.353	ND	ND	0.042	0.013	0.000
9/12/06 12:00	22-9	17025	0.722	524.800	2.933	535.200	2.845	ND	ND	0.066	0.030	0.000
9/13/06 0:00	22-10	17026	0.351	512.800	1.502	535.200	0.988	ND	ND	0.035	0.009	0.000
9/13/06 12:00	22-11	17027	0.330	510.400	1.468	535.200	1.004	ND	ND	0.034	0.009	0.000
9/14/06 0:00	22-12	17028	0.457	510.400	2.400	535.200	1.374	ND	ND	0.058	0.013	0.000
9/14/06 12:00	22-13	17029	0.275	524.800	1.175	535.200	1.088	ND	ND	0.027	0.011	0.000
9/15/06 0:00	22-14	17030	0.467	520.800	1.676	535.200	1.286	ND	ND	0.036	0.011	0.000
9/15/06 12:00	22-15	17031	0.721	510.400	2.057	535.200	1.775	ND	ND	0.040	0.015	0.000
9/16/06 0:00	22-16	17032	0.783	516.800	1.996	536.000	1.722	ND	ND	0.036	0.013	0.000
9/16/06 12:00	22-17	17033	0.270	524.800	1.268	535.200	1.141	ND	ND	0.030	0.012	0.000
9/17/06 0:00	22-18	17034	0.294	510.400	1.291	535.200	0.887	ND	ND	0.030	0.008	0.000
9/17/06 12:00	22-19	17035	0.153	511.200	0.934	535.200	0.483	ND	ND	0.023	0.005	0.000
9/18/06 0:00	22-20	17036	0.366	516.800	1.028	535.200	0.746	ND	ND	0.020	0.005	0.000
9/18/06 12:00	23-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/19/06 0:00	23-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/19/06 12:00	23-3	16979	1.616	524.800	9.598	535.200	7.251	ND	ND	0.239	0.079	0.000
9/20/06 0:00	23-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/20/06 12:00	23-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/21/06 0:00	23-6	16982	3.212	524.800	15.211	535.200	16.593	ND	ND	0.360	0.187	0.000

Appendix 8: WKB spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
9/21/06 12:00	23-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/22/06 0:00	23-8	16984	1.175	510.400	5.686	535.200	3.186	ND	ND	0.135	0.028	0.000
9/22/06 12:00	23-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/23/06 0:00	23-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/23/06 12:00	23-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/24/06 0:00	23-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/24/06 12:00	23-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/25/06 0:00	23-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/25/06 12:00	23-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/26/06 0:00	23-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/26/06 12:00	23-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/27/06 0:00	23-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/27/06 12:00	23-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/28/06 0:00	23-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/28/06 12:00	23-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/29/06 0:00	24-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/29/06 12:00	24-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/30/06 0:00	24-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/30/06 12:00	24-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/1/06 0:00	24-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/1/06 12:00	24-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/2/06 0:00	24-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/2/06 12:00	24-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/3/06 0:00	24-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/3/06 12:00	24-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/4/06 0:00	24-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/4/06 12:00	24-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/5/06 0:00	24-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/5/06 12:00	24-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/6/06 0:00	24-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/6/06 12:00	24-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/7/06 0:00	24-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/7/06 12:00	24-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/8/06 0:00	24-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/8/06 12:00	24-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/9/06 0:00	24-21	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/9/06 12:00	24-22	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/10/06 0:00	24-23	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/10/06 12:00	24-24	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/11/06 0:00	25-1	16885	1.537	517.600	4.169	535.200	3.257	ND	ND	0.079	0.024	0.000
10/11/06 12:00	25-2	16886	1.540	511.200	4.322	535.200	2.527	ND	ND	0.083	0.014	0.000

Appendix 8: WKB spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
10/12/06 0:00	25-3	16887	1.614	516.000	4.977	535.200	2.859	ND	ND	0.101	0.017	0.000
10/12/06 12:00	25-4	16888	1.480	522.400	4.228	535.200	3.105	ND	ND	0.082	0.023	0.000
10/13/06 0:00	25-5	16889	1.350	510.400	3.577	535.200	2.198	ND	ND	0.067	0.012	0.000
10/13/06 12:00	25-6	16890	0.913	510.400	3.599	535.200	1.530	ND	ND	0.081	0.009	0.000
10/14/06 0:00	25-7	16891	1.582	511.200	4.322	535.200	2.457	ND	ND	0.082	0.012	0.000
10/14/06 12:00	25-8	16892	1.225	519.200	3.014	535.200	2.122	ND	ND	0.054	0.013	0.000
10/15/06 0:00	25-9	16893	1.196	510.400	4.199	535.200	1.945	ND	ND	0.090	0.010	0.000
10/15/06 12:00	25-10	16894	1.115	510.400	3.930	535.200	1.973	ND	ND	0.084	0.012	0.000
10/16/06 0:00	25-11	16895	1.164	516.800	2.869	535.200	1.994	ND	ND	0.051	0.012	0.000
10/16/06 12:00	25-12	16896	1.275	511.200	3.670	535.200	2.307	ND	ND	0.072	0.014	0.000
10/17/06 0:00	25-13	16897	1.642	510.400	4.443	535.200	2.629	ND	ND	0.084	0.014	0.000
10/17/06 12:00	25-14	16898	1.309	510.400	4.069	535.200	2.999	ND	ND	0.083	0.024	0.000
10/18/06 0:00	25-15	16899	1.276	518.400	3.071	535.200	2.671	ND	ND	0.054	0.020	0.000
10/18/06 12:00	25-16	16900	1.354	510.400	3.268	535.200	2.087	ND	ND	0.057	0.010	0.000
10/19/06 0:00	26-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/19/06 12:00	26-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/20/06 0:00	26-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/20/06 12:00	26-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/21/06 0:00	26-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/21/06 12:00	26-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/22/06 0:00	26-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/22/06 12:00	26-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/23/06 0:00	26-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/23/06 12:00	26-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/24/06 0:00	26-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/24/06 12:00	26-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/25/06 0:00	26-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/25/06 12:00	26-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/26/06 0:00	26-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/26/06 12:00	26-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/27/06 0:00	26-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
10/27/06 12:00	27-1	16073	0.368	524.800	1.429	535.200	1.205	ND	ND	0.032	0.012	0.000
10/28/06 0:00	27-2	16074	1.150	ND	ND	535.200	2.789	ND	ND	0.000	0.023	0.000
10/28/06 12:00	27-3	16075	0.217	ND	ND	535.200	0.544	ND	ND	0.000	0.005	0.000
10/29/06 0:00	27-4	16076	0.415	ND	ND	535.200	1.437	ND	ND	0.000	0.014	0.000
10/29/06 12:00	27-5	16077	0.276	ND	ND	535.200	0.811	ND	ND	0.000	0.007	0.000
10/30/06 0:00	27-6	16078	0.258	ND	ND	535.200	0.999	ND	ND	0.000	0.010	0.000
10/30/06 12:00	27-7	16079	0.283	ND	ND	535.200	0.909	ND	ND	0.000	0.009	0.000
10/31/06 0:00	27-8	16080	0.267	ND	ND	535.200	0.789	ND	ND	0.000	0.007	0.000
10/31/06 12:00	27-9	16081	0.342	ND	ND	535.200	0.877	ND	ND	0.000	0.007	0.000
11/1/06 0:00	27-10	16082	0.284	ND	ND	535.200	0.936	ND	ND	0.000	0.009	0.000

Appendix 8: WKB spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
11/1/06 12:00	27-11	16083	0.372	ND	ND	535.200	1.749	ND	ND	0.000	0.019	0.000
11/2/06 0:00	27-12	16084	0.240	ND	ND	535.200	1.000	ND	ND	0.000	0.011	0.000
11/2/06 12:00	27-13	16085	0.229	ND	ND	535.200	0.395	ND	ND	0.000	0.002	0.000
11/3/06 0:00	27-14	16086	0.200	ND	ND	535.200	0.366	ND	ND	0.000	0.002	0.000
11/3/06 12:00	27-15	16087	0.237	ND	ND	535.200	0.566	ND	ND	0.000	0.005	0.000
11/4/06 0:00	27-16	16088	0.266	ND	ND	535.200	0.799	ND	ND	0.000	0.007	0.000
11/4/06 12:00	27-17	16089	0.252	ND	ND	535.200	0.409	ND	ND	0.000	0.002	0.000
11/5/06 0:00	27-18	16090	0.255	ND	ND	535.200	0.824	ND	ND	0.000	0.008	0.000
11/5/06 12:00	27-19	16091	0.259	ND	ND	535.200	0.740	ND	ND	0.000	0.007	0.000
11/6/06 0:00	27-20	16092	0.264	ND	ND	535.200	1.010	ND	ND	0.000	0.010	0.000
11/6/06 12:00	27-21	16093	0.204	ND	ND	535.200	0.687	ND	ND	0.000	0.007	0.000
11/7/06 0:00	27-22	16094	0.483	ND	ND	535.200	0.923	ND	ND	0.000	0.006	0.000
11/7/06 12:00	27-23	16094	0.483	ND	ND	535.200	0.923	ND	ND	0.000	0.006	0.000
11/8/06 0:00	28-1	15972	0.498	518.400	1.688	535.200	1.627	ND	ND	0.036	0.016	0.000
11/8/06 12:00	28-2	15973	0.283	516.000	1.057	535.200	0.626	ND	ND	0.023	0.005	0.000
11/9/06 0:00	28-3	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
11/9/06 12:00	28-4	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
11/10/06 0:00	28-5	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
11/10/06 12:00	28-6	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
11/11/06 0:00	28-7	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
11/11/06 12:00	28-8	ND	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
11/12/06 0:00	28-9	15980	0.426	510.400	1.951	535.200	0.896	ND	ND	0.046	0.007	0.000
11/12/06 12:00	28-10	15981	0.586	510.400	2.571	535.200	1.652	ND	ND	0.060	0.015	0.000
11/13/06 0:00	28-11	15982	1.440	510.400	8.084	535.200	5.795	ND	ND	0.199	0.061	0.000
11/13/06 12:00	28-12	15983	0.684	510.400	2.801	535.200	1.463	ND	ND	0.064	0.011	0.000
11/14/06 0:00	28-13	15984	0.596	510.400	2.472	535.200	1.670	ND	ND	0.056	0.015	0.000
11/14/06 12:00	28-14	15985	0.687	518.400	2.186	535.200	1.837	ND	ND	0.045	0.016	0.000
11/15/06 0:00	28-15	15986	1.348	510.400	3.371	536.000	2.653	ND	ND	0.061	0.018	0.000
11/15/06 12:00	28-16	15987	0.363	511.200	1.563	535.200	0.880	ND	ND	0.036	0.007	0.000
11/16/06 0:00	28-17	15988	0.600	524.800	1.903	535.200	1.804	ND	ND	0.039	0.017	0.000
11/16/06 12:00	29-1	16777	1.563	518.400	6.467	535.200	4.762	ND	ND	0.147	0.045	0.000
11/17/06 0:00	29-2	16778	1.215	510.400	4.811	535.200	2.745	ND	ND	0.108	0.021	0.000
11/17/06 12:00	29-3	16779	0.925	521.600	4.124	535.200	2.831	ND	ND	0.096	0.027	0.000
11/18/06 0:00	29-4	16780	0.886	512.800	3.667	535.200	2.189	ND	ND	0.083	0.018	0.000
11/18/06 12:00	29-5	16781	2.094	510.400	12.895	535.200	4.351	ND	ND	0.324	0.032	0.000
11/19/06 0:00	29-6	16782	1.383	510.400	7.297	535.200	4.700	ND	ND	0.177	0.046	0.000
11/19/06 12:00	29-7	16783	1.221	516.000	4.214	535.200	2.948	ND	ND	0.090	0.024	0.000
11/20/06 0:00	29-8	16784	0.826	518.400	4.020	535.200	2.282	ND	ND	0.096	0.020	0.000
11/20/06 12:00	29-9	16785	1.939	510.400	7.682	535.200	5.645	ND	ND	0.172	0.052	0.000
11/21/06 0:00	29-10	16786	0.886	524.800	3.866	535.200	3.271	ND	ND	0.089	0.033	0.000
11/21/06 12:00	29-11	16787	0.866	517.600	2.877	535.200	1.991	ND	ND	0.060	0.016	0.000

Appendix 8: WKB spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
11/22/06 0:00	29-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/22/06 12:00	30-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/23/06 12:00	30-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/24/06 12:00	30-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/25/06 12:00	30-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/26/06 12:00	30-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/27/06 12:00	30-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/28/06 12:00	30-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/29/06 12:00	30-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/30/06 12:00	30-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/1/06 12:00	30-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/2/06 12:00	30-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/3/06 12:00	30-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/4/06 12:00	30-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/5/06 12:00	30-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/6/06 12:00	30-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/7/06 12:00	31-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/8/06 12:00	31-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/9/06 12:00	31-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/10/06 12:00	31-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/11/06 12:00	31-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/12/06 12:00	31-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/13/06 12:00	31-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/14/06 12:00	31-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/15/06 12:00	31-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/16/06 12:00	31-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
12/17/06 12:00	31-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
12/18/06 12:00	31-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
12/19/06 12:00	31-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
12/20/06 12:00	31-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
12/21/06 12:00	31-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
12/22/06 12:00	31-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/23/06 12:00	31-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/24/06 12:00	31-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/25/06 12:00	31-19	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/26/06 12:00	31-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/27/06 12:00	32-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/28/06 12:00	32-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/29/06 12:00	32-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/30/06 12:00	32-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
12/31/06 12:00	32-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A

Appendix 8: WKB spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
1/1/07 12:00	32-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/2/07 12:00	32-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/3/07 12:00	32-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/4/07 12:00	32-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/5/07 12:00	32-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/6/07 12:00	32-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/7/07 12:00	32-12	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/8/07 12:00	32-13	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/9/07 12:00	32-14	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/10/07 12:00	32-15	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/11/07 12:00	32-16	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/12/07 12:00	32-17	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/13/07 12:00	33-1	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/14/07 12:00	33-2	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/15/07 12:00	33-3	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/16/07 12:00	33-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/17/07 12:00	33-5	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/18/07 12:00	33-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/19/07 12:00	33-7	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/20/07 12:00	33-8	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/21/07 12:00	33-9	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/22/07 12:00	33-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/23/07 12:00	33-11	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
1/24/07 12:00	34-1	17821	0.329	518.400	1.084	535.200	0.744	ND	ND	0.023	0.006	0.000
1/25/07 12:00	34-2	17822	0.712	510.400	3.291	535.200	1.942	ND	ND	0.077	0.017	0.000
1/26/07 12:00	34-3	17823	1.078	510.400	2.595	535.200	1.895	ND	ND	0.046	0.011	0.000
1/27/07 12:00	34-4	17824	0.820	510.400	4.381	535.200	1.705	ND	ND	0.107	0.012	0.000
1/28/07 12:00	34-5	17825	0.654	510.400	4.366	535.200	2.126	ND	ND	0.111	0.021	0.000
1/29/07 12:00	34-6	17826	1.329	510.400	5.982	535.200	4.035	ND	ND	0.140	0.038	0.000
1/30/07 12:00	34-7	17827	0.676	510.400	3.052	535.200	1.768	ND	ND	0.071	0.015	0.000
1/31/07 12:00	34-8	17828	0.722	510.400	4.559	535.200	1.970	ND	ND	0.115	0.017	0.000
2/1/07 12:00	34-9	17829	0.664	510.400	2.744	535.200	1.877	ND	ND	0.062	0.017	0.000
2/2/07 12:00	34-10	17830	0.470	510.400	2.414	535.200	1.381	ND	ND	0.058	0.013	0.000
2/3/07 12:00	34-11	17831	0.744	510.400	2.237	535.200	1.459	ND	ND	0.045	0.010	0.000
2/4/07 12:00	34-12	17832	0.528	523.200	1.659	535.200	1.437	ND	ND	0.034	0.013	0.000
2/5/07 12:00	34-13	17833	0.685	510.400	6.131	535.200	3.368	ND	ND	0.163	0.038	0.000
2/6/07 12:00	34-14	17834	0.406	510.400	1.291	535.200	1.021	ND	ND	0.027	0.009	0.000
2/7/07 12:00	34-15	17835	0.745	524.800	2.884	535.200	2.925	ND	ND	0.064	0.031	0.000
2/8/07 12:00	34-16	17836	1.791	524.800	17.141	535.200	11.895	ND	ND	0.461	0.141	0.000
2/9/07 12:00	34-17	17837	0.501	521.600	1.586	535.200	1.281	ND	ND	0.033	0.011	0.000
2/10/07 12:00	35-1	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A

Appendix 8: WKB spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
2/11/07 12:00	35-2	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/12/07 12:00	35-3	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/13/07 12:00	35-4	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/14/07 12:00	35-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/15/07 12:00	35-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/16/07 12:00	35-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/17/07 12:00	35-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/18/07 12:00	35-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/19/07 12:00	35-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/20/07 12:00	35-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/21/07 12:00	35-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/22/07 12:00	35-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/23/07 12:00	35-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/24/07 12:00	35-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/25/07 12:00	35-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/26/07 12:00	35-17	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/27/07 12:00	35-18	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
2/28/07 12:00	35-19	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/1/07 12:00	35-20	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/2/07 12:00	35-21	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/3/07 12:00	36-1	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/4/07 12:00	36-2	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/5/07 12:00	36-3	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/6/07 12:00	36-4	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/7/07 12:00	36-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/8/07 12:00	36-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/9/07 12:00	36-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/10/07 12:00	36-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/11/07 12:00	36-9	18199	0.063	518.400	0.421	535.200	0.205	ND	ND	0.011	0.002	0.000
3/12/07 12:00	36-10	18200	0.047	524.800	0.356	536.000	0.256	ND	ND	0.009	0.003	0.000
3/13/07 12:00	36-11	18201	0.072	521.600	0.539	535.200	0.348	ND	ND	0.014	0.004	0.000
3/14/07 12:00	36-12	18202	0.048	522.400	0.387	535.200	0.213	ND	ND	0.010	0.002	0.000
3/15/07 12:00	36-13	18203	0.049	524.800	0.355	535.200	0.270	ND	ND	0.009	0.003	0.000
3/16/07 12:00	36-14	18204	0.070	524.000	0.491	535.200	0.354	ND	ND	0.013	0.004	0.000
3/17/07 12:00	36-15	18205	0.037	519.200	0.354	535.200	0.166	ND	ND	0.010	0.002	0.000
3/18/07 12:00	36-16	18206	0.037	518.400	0.332	535.200	0.139	ND	ND	0.009	0.001	0.000
3/19/07 12:00	36-17	18207	0.061	513.600	0.329	535.200	0.177	ND	ND	0.008	0.002	0.000
3/20/07 12:00	36-18	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/21/07 12:00	36-19	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/22/07 12:00	36-20	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/23/07 12:00	36-21	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A

Appendix 8: WKB spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
3/24/07 12:00	37-1	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/25/07 12:00	37-2	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/26/07 12:00	37-3	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/27/07 12:00	37-4	18211	0.110	524.800	0.504	535.200	0.423	ND	ND	0.012	0.004	0.000
3/28/07 12:00	37-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/29/07 12:00	37-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/30/07 12:00	37-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/31/07 12:00	37-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/1/07 12:00	37-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/2/07 12:00	37-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/3/07 12:00	37-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/4/07 12:00	37-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/5/07 12:00	37-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/6/07 12:00	37-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/7/07 12:00	37-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/8/07 12:00	37-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/9/07 12:00	38-1	18224	0.048	520.000	0.326	535.200	0.156	ND	ND	0.008	0.002	0.000
4/10/07 12:00	38-2	18225	0.061	522.400	0.444	535.200	0.244	ND	ND	0.011	0.003	0.000
4/11/07 12:00	38-3	18226	0.050	523.200	0.503	535.200	0.270	ND	ND	0.014	0.003	0.000
4/12/07 12:00	38-4	18227	0.046	523.200	0.336	535.200	0.191	ND	ND	0.009	0.002	0.000
4/13/07 12:00	38-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/14/07 12:00	38-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/15/07 12:00	38-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/16/07 12:00	38-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/17/07 12:00	38-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/18/07 12:00	38-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/19/07 12:00	38-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/20/07 12:00	39-1	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4/21/07 12:00	-	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4/22/07 12:00	0-1	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4/23/07 12:00	0-2	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4/24/07 12:00	0-3	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4/25/07 12:00	0-4	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4/26/07 12:00	0-5	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4/27/07 12:00	0-6	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4/28/07 12:00	0-7	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4/29/07 12:00	0-8	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
4/30/07 12:00	0-9	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/1/07 12:00	0-10	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/2/07 12:00	0-11	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/3/07 12:00	0-12	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Appendix 8: WKB spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
5/4/07 12:00	0-13	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/5/07 12:00	0-14	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/6/07 12:00	0-15	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/7/07 12:00	0-16	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/8/07 12:00	0-17	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/9/07 12:00	0-18	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/10/07 12:00	0-19	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/11/07 12:00	0-20	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/12/07 12:00	0-21	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/13/07 12:00	0-22	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/14/07 12:00	0-23	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/15/07 12:00	0-24	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/16/07 12:00	0-25	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/17/07 12:00	0-26	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/18/07 12:00	0-27	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/19/07 12:00	0-28	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/20/07 12:00	0-29	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/21/07 12:00	0-30	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/22/07 12:00	0-31	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/23/07 12:00	0-32	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/24/07 12:00	0-33	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/25/07 12:00	0-34	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/26/07 12:00	0-35	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/27/07 12:00	0-36	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/28/07 12:00	0-37	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/29/07 12:00	0-38	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/30/07 12:00	0-39	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
5/31/07 12:00	0-40	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/1/07 12:00	0-41	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/2/07 12:00	0-42	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/3/07 12:00	0-43	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/4/07 12:00	0-44	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/5/07 12:00	0-45	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/6/07 12:00	0-46	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/7/07 12:00	0-47	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/8/07 12:00	0-48	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/9/07 12:00	0-49	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/10/07 12:00	0-50	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/11/07 12:00	0-51	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/12/07 12:00	0-52	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/13/07 12:00	0-53	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Appendix 8: WKB spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
6/14/07 12:00	0-54	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/15/07 12:00	0-55	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/16/07 12:00	0-56	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/17/07 12:00	0-57	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/18/07 12:00	0-58	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/19/07 12:00	0-59	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/20/07 12:00	0-60	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/21/07 12:00	0-61	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/22/07 12:00	0-62	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/23/07 12:00	0-63	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/24/07 12:00	0-64	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/25/07 12:00	0-65	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/26/07 12:00	0-66	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/27/07 12:00	0-67	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/28/07 12:00	0-68	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/29/07 12:00	0-69	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
6/30/07 12:00	0-70	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7/1/07 12:00	0-71	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7/2/07 12:00	0-72	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7/3/07 12:00	0-73	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7/4/07 12:00	0-74	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
7/5/07 12:00	0-75	0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Appendix 9: WKV spectrofluorophotometer data.

			m3/sec	*cfs*						*Estimated Mass Recovered (g)*		
		Highest Probable Flow	*20.32*	*717.6*						*41634*	*15714*	*N/A*
		Lowest Probable Flow	*3.06*	*108.0*						*6263*	*2364*	*N/A*
		Probable Average Flow	*11.97*	*422.7*						*24526*	*9257*	*N/A*
		Max	*5.932*	*524.800*	*21.948*	*549.600*	*18.356*	*560.800*	*6.469*	*0.536*	*0.199*	*0.074*
		Min	*0.039*	*0.000*	*0.000*	*535.200*	*0.189*	*555.200*	*0.881*	*-0.035*	*0.000*	*0.000*
		Count	*403*	*401*	*401*	*386*	*386*	*13*	*13*	*478*	*478*	*478*
Date	**Time**	**Field Sample Number**	**Lab Sample Number**	**Meas. Baseline (MEAS)**	**AY73 Wavelen (MEAS)**	**AY73 Intens (MEAS)**	**AR87 Wavelen (MEAS)**	**AR87 Intens (MEAS)**	**AR92 Wavelen (MEAS)**	**AR92 Intens (MEAS)**	**AY73 PPB (CALC)**	**AR87 PPB (CALC)**	**AR92 PPB (CALC)**
2/1/06	13:36	grab-grab	11228	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/2/06	15:19	grab-grab	11224	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/3/06	10:40	grab-grab	11229	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/4/06	14:38	grab-grab	11227	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/5/06	10:59	grab-grab	11226	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/6/06	11:20	grab-grab	11225	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/7/06	13:53	grab-grab	11567	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/8/06	14:14	grab-grab	11679	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/9/06	12:22	grab-grab	11684	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/10/06	14:08	grab-grab	11694	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/11/06	14:45	grab-grab	11693	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/12/06	14:55	grab-grab	11707	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/15/06	10:49	grab-grab	11772	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/16/06	10:18	grab-grab	11773	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/17/06	13:38	grab-grab	11780	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/18/06	17:26	grab-grab	11782	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/19/06	11:17	grab-grab	11785	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/20/06	14:24	grab-grab	11792	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/22/06	17:53	grab-grab	12648	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/23/06	17:33	grab-grab	12649	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/24/06	10:01	grab-grab	12650	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/25/06	16:04	grab-grab	12651	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/26/06	13:14	grab-grab	12652	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/27/06	14:16	grab-grab	12653	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
2/28/06	11:12	grab-grab	12654	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/1/06	10:55	grab-grab	12655	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/2/06	18:47	grab-grab	12656	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/3/06	16:16	grab-grab	12657	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000

Appendix 9: WKV spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Numbe	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
3/4/06 14:40	grab-grab	12658	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/5/06 11:00	grab-grab	12154	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/6/06 11:02	grab-grab	12158	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/7/06 11:06	grab-grab	12433	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/8/06 14:21	grab-grab	12436	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/9/06 10:29	grab-grab	12440	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/11/06 12:00	1-1	12751	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/12/06 0:00	1-2	12752	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/12/06 12:00	1-3	12753	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/13/06 0:00	1-4	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/13/06 12:00	1-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/14/06 0:00	1-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/14/06 12:00	1-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/15/06 0:00	1-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/15/06 12:00	1-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
3/16/06 0:00	2-1	12740	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/16/06 12:00	2-2	12741	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/17/06 0:00	2-3	12742	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/17/06 12:00	2-4	12743	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/18/06 0:00	2-5	12744	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/18/06 12:00	2-6	12745	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/19/06 0:00	2-7	12746	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/19/06 12:00	2-8	12747	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/20/06 0:00	3-1	12808	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/20/06 12:00	3-2	12809	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/21/06 0:00	3-3	12810	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/21/06 12:00	3-4	12811	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/22/06 0:00	3-5	12812	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/22/06 12:00	3-6	12813	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/23/06 0:00	3-7	12814	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/23/06 12:00	3-8	12815	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/24/06 0:00	3-9	12816	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/24/06 12:00	3-10	12817	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/25/06 0:00	3-11	12818	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/25/06 12:00	3-12	12819	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/26/06 0:00	3-13	12820	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/26/06 12:00	3-14	12821	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/27/06 0:00	3-15	12822	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/27/06 12:00	3-16	12823	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/28/06 0:00	3-17	12824	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/28/06 12:00	3-18	12825	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000

Appendix 9: WKV spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
3/29/06 0:00	4-1	13216	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
3/29/06 12:00	4-2	13217	1.157	510.400	9.358	ND	ND	ND	ND	0.246	0.000	0.000
3/30/06 0:00	4-3	13218	1.157	510.400	6.580	ND	ND	ND	ND	0.163	0.000	0.000
3/30/06 12:00	4-4	13219	1.157	0.000	0.000	ND	ND	555.200	4.704	-0.035	0.000	0.050
3/31/06 0:00	4-5	13220	1.157	510.400	10.414	ND	ND	ND	ND	0.278	0.000	0.000
3/31/06 12:00	4-6	13221	1.157	510.400	12.530	ND	ND	555.200	5.896	0.341	0.000	0.066
4/1/06 0:00	4-7	13222	1.157	511.200	9.158	ND	ND	560.800	4.240	0.240	0.000	0.043
4/1/06 12:00	4-8	13223	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/2/06 0:00	4-9	13224	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/2/06 12:00	4-10	13225	1.157	510.400	8.363	ND	ND	ND	ND	0.216	0.000	0.000
4/3/06 0:00	4-11	13226	1.157	0.000	0.000	ND	ND	555.200	2.955	-0.035	0.000	0.025
4/3/06 12:00	4-12	13227	1.157	0.000	0.000	ND	ND	555.200	4.417	-0.035	0.000	0.046
4/4/06 0:00	4-13	13228	1.157	0.000	0.000	ND	ND	555.200	5.451	-0.035	0.000	0.060
4/4/06 12:00	4-14	13229	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/5/06 0:00	4-15	13230	1.157	0.000	0.000	ND	ND	558.400	4.405	-0.035	0.000	0.045
4/5/06 12:00	4-16	13231	1.157	510.400	6.884	ND	ND	555.200	4.607	0.172	0.000	0.048
4/6/06 0:00	4-17	13232	1.157	0.000	0.000	ND	ND	556.000	3.476	-0.035	0.000	0.032
4/6/06 12:00	4-18	13233	1.157	0.000	0.000	ND	ND	556.800	4.049	-0.035	0.000	0.040
4/7/06 0:00	4-19	13234	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/7/06 12:00	4-20	1235	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/8/06 0:00	5-1	13169	1.157	ND	ND	ND	ND	555.200	5.529	0.000	0.000	0.061
4/8/06 12:00	5-2	13170	1.157	ND	ND	ND	ND	557.600	6.469	0.000	0.000	0.074
4/9/06 0:00	5-3	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/9/06 12:00	5-4	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/10/06 0:00	5-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/10/06 12:00	5-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/11/06 0:00	5-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/11/06 12:00	5-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/12/06 0:00	5-9	13171	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/12/06 12:00	5-10	13172	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/13/06 0:00	5-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/13/06 12:00	5-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/14/06 0:00	5-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/14/06 12:00	5-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/15/06 0:00	6-1	13236	1.157	513.600	6.045	539.200	5.554	ND	ND	0.147	0.062	0.000
4/15/06 12:00	6-2	13237	1.157	512.800	8.622	544.000	7.195	ND	ND	0.224	0.085	0.000
4/16/06 0:00	6-3	13238	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/16/06 12:00	6-4	13239	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/17/06 0:00	6-5	13240	1.157	516.000	9.391	539.200	7.710	ND	ND	0.247	0.092	0.000
4/17/06 12:00	6-6	13241	1.157	511.200	8.899	536.800	7.915	ND	ND	0.232	0.095	0.000
4/18/06 0:00	6-7	13242	1.157	510.400	9.222	536.000	8.821	ND	ND	0.242	0.107	0.000

Appendix 9: WKV spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
4/18/06 12:00	6-8	13243	1.157	517.600	7.454	539.200	7.167	ND	ND	0.189	0.084	0.000
4/19/06 0:00	6-9	13244	1.157	517.600	9.899	538.400	8.205	ND	ND	0.262	0.099	0.000
4/19/06 12:00	6-10	13245	1.157	512.000	10.748	540.800	10.146	ND	ND	0.288	0.126	0.000
4/20/06 0:00	6-11	13246	1.157	513.600	10.729	545.600	10.823	ND	ND	0.287	0.135	0.000
4/20/06 12:00	6-12	13247	1.157	518.400	7.632	542.400	7.452	ND	ND	0.194	0.088	0.000
4/21/06 0:00	6-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/21/06 12:00	6-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
4/22/06 0:00	7-1	13705	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/22/06 12:00	7-2	13706	ND	ND	ND	ND	ND	ND	ND	0.000	0.000	0.000
4/23/06 0:00	7-3	13707	1.190	516.000	9.619	540.800	9.122	ND	ND	0.253	0.111	0.000
4/23/06 12:00	7-4	13708	1.306	519.200	8.047	540.000	8.734	ND	ND	0.202	0.104	0.000
4/24/06 0:00	7-5	13709	2.494	510.400	10.398	539.200	9.489	ND	ND	0.237	0.098	0.000
4/24/06 12:00	7-6	13710	2.505	514.400	8.822	543.200	9.320	ND	ND	0.190	0.095	0.000
4/25/06 0:00	7-7	13711	2.493	515.200	8.350	539.200	8.820	ND	ND	0.176	0.089	0.000
4/25/06 12:00	7-8	13712	1.177	516.800	8.631	538.400	9.902	ND	ND	0.224	0.122	0.000
4/26/06 0:00	7-9	13713	1.148	514.400	9.040	542.400	10.704	ND	ND	0.237	0.134	0.000
4/26/06 12:00	7-10	13714	1.080	516.000	8.156	542.400	9.834	ND	ND	0.212	0.123	0.000
4/27/06 0:00	7-11	13715	1.009	515.200	7.520	543.200	9.300	ND	ND	0.195	0.116	0.000
4/27/06 12:00	7-12	13716	1.106	519.200	7.811	543.200	8.965	ND	ND	0.201	0.110	0.000
4/28/06 0:00	7-13	13717	1.018	516.800	8.129	541.600	10.149	ND	ND	0.213	0.128	0.000
4/28/06 12:00	7-14	13718	1.150	516.800	7.962	540.800	9.648	ND	ND	0.204	0.119	0.000
4/29/06 0:00	8-1	13870	1.226	517.600	8.071	543.200	10.191	ND	ND	0.205	0.126	0.000
4/29/06 12:00	8-2	13871	1.177	513.600	7.808	541.600	8.996	ND	ND	0.199	0.109	0.000
4/30/06 0:00	8-3	13872	1.143	513.600	7.729	540.800	8.978	ND	ND	0.198	0.110	0.000
4/30/06 12:00	8-4	13873	1.220	510.400	10.569	541.600	10.749	ND	ND	0.280	0.133	0.000
5/1/06 0:00	8-5	13874	1.221	520.000	9.025	546.400	10.619	ND	ND	0.234	0.132	0.000
5/1/06 12:00	8-6	13875	1.834	518.400	12.858	540.000	11.915	ND	ND	0.331	0.141	0.000
5/2/06 0:00	8-7	13876	1.133	520.800	7.511	539.200	8.450	ND	ND	0.191	0.102	0.000
5/2/06 12:00	8-8	13877	1.270	524.000	7.776	542.400	8.786	ND	ND	0.195	0.105	0.000
5/3/06 0:00	8-9	13878	1.175	512.800	7.992	537.600	8.792	ND	ND	0.205	0.107	0.000
5/3/06 12:00	8-10	13879	1.156	516.800	9.044	539.200	9.785	ND	ND	0.237	0.121	0.000
5/4/06 0:00	8-11	13880	1.330	518.400	8.577	541.600	9.000	ND	ND	0.217	0.107	0.000
5/4/06 12:00	8-12	13881	1.513	515.200	10.548	544.000	11.520	ND	ND	0.271	0.140	0.000
5/5/06 0:00	8-13	13882	1.377	512.800	10.501	544.000	10.913	ND	ND	0.274	0.134	0.000
5/5/06 12:00	8-14	13883	1.194	514.400	7.285	538.400	7.984	ND	ND	0.183	0.095	0.000
5/6/06 0:00	9-1	14182	0.984	515.200	10.218	539.200	9.146	ND	ND	0.277	0.114	0.000
5/6/06 12:00	9-2	14183	1.078	516.800	8.434	536.800	8.628	ND	ND	0.221	0.106	0.000
5/7/06 0:00	9-3	14184	2.881	510.400	10.219	535.200	9.503	ND	ND	0.220	0.093	0.000
5/7/06 12:00	9-4	14185	1.210	511.200	11.290	541.600	9.960	ND	ND	0.302	0.123	0.000
5/8/06 0:00	9-5	14186	0.854	511.200	9.274	540.000	8.866	ND	ND	0.253	0.112	0.000
5/8/06 12:00	9-6	14187	0.977	511.200	8.254	537.600	8.074	ND	ND	0.218	0.099	0.000

Appendix 9: WKV spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
5/9/06 0:00	9-7	14188	3.433	510.400	14.064	540.800	12.547	ND	ND	0.319	0.128	0.000
5/9/06 12:00	9-8	14189	0.992	520.000	7.497	540.000	7.267	ND	ND	0.195	0.088	0.000
5/10/06 0:00	9-9	14190	3.479	512.000	13.386	535.200	10.673	ND	ND	0.297	0.101	0.000
5/10/06 12:00	9-10	14191	1.103	514.400	8.918	542.400	8.807	ND	ND	0.234	0.108	0.000
5/11/06 0:00	9-11	14192	3.567	511.200	11.041	536.000	10.659	ND	ND	0.224	0.099	0.000
5/11/06 12:00	9-12	14193	3.149	511.200	9.312	539.200	8.976	ND	ND	0.185	0.082	0.000
5/12/06 0:00	9-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
5/12/06 12:00	9-14	14194	4.426	510.400	18.350	535.200	13.757	ND	ND	0.418	0.131	0.000
5/13/06 0:00	9-15	14195	3.175	516.000	10.423	540.800	9.603	ND	ND	0.217	0.090	0.000
5/13/06 12:00	10-1	14031	1.120	516.800	7.909	539.200	8.535	ND	ND	0.204	0.104	0.000
5/14/06 0:00	10-2	14032	3.626	515.200	17.110	538.400	16.888	ND	ND	0.405	0.186	0.000
5/14/06 12:00	10-3	14033	1.326	511.200	10.005	540.800	9.954	ND	ND	0.260	0.121	0.000
5/15/06 0:00	10-4	14034	1.331	513.600	11.707	537.600	12.119	ND	ND	0.311	0.151	0.000
5/15/06 12:00	10-5	14035	4.592	510.400	14.321	535.200	11.649	ND	ND	0.292	0.099	0.000
5/16/06 0:00	10-6	14036	5.770	510.400	21.948	536.000	18.356	ND	ND	0.485	0.176	0.000
5/16/06 12:00	10-7	14037	3.464	514.400	10.993	540.000	10.781	ND	ND	0.226	0.102	0.000
5/17/06 0:00	10-8	14038	1.800	512.800	8.986	540.000	8.363	ND	ND	0.216	0.092	0.000
5/17/06 12:00	10-9	14039	1.304	518.400	7.772	541.600	8.553	ND	ND	0.194	0.101	0.000
5/18/06 0:00	10-10	14040	3.503	516.000	10.836	542.400	11.006	ND	ND	0.220	0.105	0.000
5/18/06 12:00	10-11	14041	4.253	514.400	14.913	535.200	12.155	ND	ND	0.320	0.111	0.000
5/19/06 0:00	10-12	14042	3.078	516.000	11.039	536.800	9.746	ND	ND	0.239	0.093	0.000
5/19/06 12:00	10-13	14043	4.165	515.200	12.300	537.600	10.392	ND	ND	0.244	0.087	0.000
5/20/06 0:00	10-14	14044	5.163	515.200	15.351	536.000	12.939	ND	ND	0.306	0.109	0.000
5/20/06 12:00	10-15	14045	3.897	510.400	11.848	540.000	10.581	ND	ND	0.239	0.094	0.000
5/21/06 0:00	10-16	14046	3.651	512.800	11.454	539.200	10.655	ND	ND	0.234	0.098	0.000
5/21/06 12:00	10-17	14047	3.670	510.400	12.256	536.000	10.299	ND	ND	0.258	0.093	0.000
5/22/06 0:00	10-18	14048	4.061	510.400	10.843	535.200	9.870	ND	ND	0.203	0.081	0.000
5/22/06 12:00	10-19	14049	4.544	510.400	13.819	536.000	11.721	ND	ND	0.278	0.100	0.000
5/23/06 0:00	10-20	14050	1.857	514.400	7.941	540.000	7.774	ND	ND	0.183	0.083	0.000
5/23/06 12:00	10-21	14051	5.932	519.200	16.563	538.400	15.393	ND	ND	0.319	0.132	0.000
5/24/06 0:00	11-1	14164	5.176	515.200	15.171	535.200	13.069	ND	ND	0.300	0.111	0.000
5/24/06 12:00	11-2	14165	1.825	510.400	9.986	540.000	10.280	ND	ND	0.245	0.118	0.000
5/25/06 0:00	11-3	14166	1.934	524.000	7.252	538.400	7.762	ND	ND	0.160	0.082	0.000
5/25/06 12:00	11-4	14167	1.322	514.400	8.266	537.600	8.134	ND	ND	0.208	0.095	0.000
5/26/06 0:00	11-5	14168	1.483	510.400	8.309	542.400	9.176	ND	ND	0.205	0.108	0.000
5/26/06 12:00	11-6	14169	1.468	520.800	7.886	544.000	8.399	ND	ND	0.193	0.097	0.000
5/27/06 0:00	11-7	14170	1.850	519.200	6.737	537.600	7.418	ND	ND	0.147	0.078	0.000
5/27/06 12:00	11-8	14171	1.841	512.000	11.933	540.000	11.169	ND	ND	0.303	0.131	0.000
5/28/06 0:00	11-9	14172	2.101	515.200	7.425	542.400	8.225	ND	ND	0.160	0.086	0.000
5/28/06 12:00	11-10	14173	1.562	522.400	8.435	540.000	9.061	ND	ND	0.206	0.105	0.000
5/29/06 0:00	11-11	14174	1.697	515.200	11.233	539.200	10.743	ND	ND	0.286	0.127	0.000

Appendix 9: WKV spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
5/29/06 12:00	11-12	14175	1.602	520.000	7.367	544.000	8.277	ND	ND	0.173	0.093	0.000
5/30/06 0:00	11-13	14176	1.536	510.400	8.126	547.200	8.527	ND	ND	0.198	0.098	0.000
5/30/06 12:00	11-14	14177	1.474	523.200	6.280	540.000	7.254	ND	ND	0.144	0.081	0.000
5/31/06 0:00	12-1	14710	1.411	514.400	10.290	536.800	8.491	ND	ND	0.266	0.099	0.000
5/31/06 12:00	12-2	14711	1.062	510.400	10.513	539.200	8.279	ND	ND	0.284	0.101	0.000
6/1/06 0:00	12-3	14712	1.433	510.400	9.021	538.400	7.571	ND	ND	0.228	0.086	0.000
6/1/06 12:00	12-4	14713	1.157	512.000	10.128	538.400	8.878	ND	ND	0.269	0.108	0.000
6/2/06 0:00	12-5	14714	1.332	510.400	8.715	536.000	7.566	ND	ND	0.221	0.087	0.000
6/2/06 12:00	12-6	14715	1.263	513.600	7.165	537.600	6.265	ND	ND	0.177	0.070	0.000
6/3/06 0:00	12-7	14716	1.209	510.400	11.647	536.800	9.053	ND	ND	0.313	0.110	0.000
6/3/06 12:00	12-8	14717	1.631	511.200	15.437	535.200	12.164	ND	ND	0.414	0.147	0.000
6/4/06 0:00	12-9	14718	1.208	512.000	8.993	539.200	7.747	ND	ND	0.234	0.092	0.000
6/4/06 12:00	12-10	14719	1.279	511.200	8.328	535.200	7.719	ND	ND	0.211	0.090	0.000
6/5/06 0:00	12-11	14720	1.510	510.400	10.040	536.800	7.964	ND	ND	0.256	0.090	0.000
6/5/06 12:00	12-12	14721	4.684	510.400	20.040	535.200	14.775	ND	ND	0.461	0.141	0.000
6/6/06 0:00	12-13	14722	4.742	510.400	16.644	536.000	11.667	ND	ND	0.357	0.097	0.000
6/6/06 12:00	12-14	14723	1.459	510.400	10.945	539.200	9.429	ND	ND	0.285	0.112	0.000
6/7/06 0:00	13-1	14637	1.832	510.400	10.474	536.800	8.279	ND	ND	0.259	0.090	0.000
6/7/06 12:00	13-2	14638	1.864	512.000	13.312	538.400	11.806	ND	ND	0.343	0.139	0.000
6/8/06 0:00	13-3	14639	2.564	510.400	15.847	535.200	12.414	ND	ND	0.398	0.138	0.000
6/8/06 12:00	13-4	14640	2.212	511.200	10.322	538.400	8.158	ND	ND	0.243	0.083	0.000
6/9/06 0:00	13-5	14641	1.963	511.200	15.038	539.200	12.903	ND	ND	0.392	0.153	0.000
6/9/06 12:00	13-6	14642	2.102	511.200	11.370	543.200	9.201	ND	ND	0.278	0.099	0.000
6/10/06 0:00	13-7	14643	2.942	511.200	20.819	536.000	17.126	ND	ND	0.536	0.199	0.000
6/10/06 12:00	13-8	14644	1.968	511.200	12.580	536.000	11.256	ND	ND	0.318	0.130	0.000
6/11/06 0:00	13-9	14645	1.624	512.800	10.808	535.200	8.586	ND	ND	0.276	0.097	0.000
6/11/06 12:00	13-10	14646	2.028	510.400	11.839	536.000	9.656	ND	ND	0.294	0.107	0.000
6/12/06 0:00	13-11	14647	2.756	511.200	19.344	536.000	15.274	ND	ND	0.498	0.175	0.000
6/12/06 12:00	13-12	14648	1.939	510.400	10.471	538.400	9.121	ND	ND	0.256	0.101	0.000
6/13/06 0:00	13-13	14649	1.887	510.400	13.015	536.000	10.727	ND	ND	0.334	0.124	0.000
6/13/06 12:00	13-14	14650	1.810	512.000	14.324	535.200	12.489	ND	ND	0.375	0.150	0.000
6/14/06 0:00	13-15	14651	1.742	511.200	13.347	536.000	10.210	ND	ND	0.348	0.119	0.000
6/14/06 12:00	13-16	14652	1.633	510.400	13.036	535.200	10.161	ND	ND	0.342	0.119	0.000
6/15/06 0:00	14-1	14583	3.061	510.400	8.581	535.200	6.748	ND	ND	0.166	0.052	0.000
6/15/06 12:00	14-2	14584	3.019	512.000	8.176	535.200	6.586	ND	ND	0.155	0.050	0.000
6/16/06 0:00	14-3	14585	1.678	511.200	10.899	541.600	9.484	ND	ND	0.277	0.109	0.000
6/16/06 12:00	14-4	14586	1.217	510.400	10.088	549.600	8.939	ND	ND	0.266	0.108	0.000
6/17/06 0:00	14-5	14587	1.389	510.400	9.460	541.600	8.433	ND	ND	0.242	0.099	0.000
6/17/06 12:00	14-6	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/18/06 0:00	14-7	14589	1.680	510.400	9.324	544.800	7.513	ND	ND	0.229	0.082	0.000
6/18/06 12:00	14-8	14590	1.257	511.200	7.848	535.200	6.705	ND	ND	0.198	0.076	0.000

Appendix 9: WKV spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
6/19/06 0:00	14-9	14591	1.352	510.400	8.747	540.000	7.770	ND	ND	0.222	0.090	0.000
6/19/06 12:00	14-10	14592	3.192	512.800	9.102	539.200	7.486	ND	ND	0.177	0.060	0.000
6/20/06 0:00	14-11	14593	1.732	510.400	7.794	536.000	6.790	ND	ND	0.182	0.071	0.000
6/20/06 12:00	15-1	14895	2.312	524.800	6.945	535.200	7.080	ND	ND	0.139	0.067	0.000
6/21/06 0:00	15-2	14896	3.176	524.800	6.347	549.600	7.808	ND	ND	0.095	0.065	0.000
6/21/06 12:00	15-3	14897	2.568	524.800	4.338	549.600	7.611	ND	ND	0.053	0.071	0.000
6/22/06 0:00	15-4	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
6/22/06 12:00	15-5	14899	2.152	524.800	5.631	544.800	5.978	ND	ND	0.104	0.054	0.000
6/23/06 0:00	15-6	14900	2.501	524.000	6.432	535.200	6.575	ND	ND	0.118	0.057	0.000
6/23/06 12:00	15-7	14901	2.720	524.800	5.846	549.600	8.027	ND	ND	0.094	0.074	0.000
6/24/06 0:00	15-8	14902	2.790	524.800	6.658	549.600	7.348	ND	ND	0.116	0.064	0.000
6/24/06 12:00	15-9	14903	3.218	524.800	6.571	535.200	6.841	ND	ND	0.101	0.051	0.000
6/25/06 0:00	15-10	14904	2.405	524.800	5.051	549.600	5.753	ND	ND	0.079	0.047	0.000
6/25/06 12:00	15-11	14905	2.687	512.000	5.065	549.600	5.244	ND	ND	0.071	0.036	0.000
6/26/06 0:00	15-12	14906	3.142	514.400	5.795	549.600	6.225	ND	ND	0.080	0.043	0.000
6/26/06 12:00	15-13	14907	2.705	523.200	5.454	544.000	5.691	ND	ND	0.082	0.042	0.000
6/27/06 0:00	15-14	14908	3.211	524.800	7.121	549.600	7.490	ND	ND	0.117	0.060	0.000
6/27/06 12:00	16-1	17320	0.083	510.400	0.491	536.000	0.316	ND	ND	0.012	0.003	0.000
6/28/06 0:00	16-2	17321	0.137	524.800	0.624	535.200	0.506	ND	ND	0.015	0.005	0.000
6/28/06 12:00	16-3	17322	0.097	511.200	0.520	535.200	0.290	ND	ND	0.013	0.003	0.000
6/29/06 0:00	16-4	17323	0.140	524.800	0.810	535.200	0.637	ND	ND	0.020	0.007	0.000
6/29/06 12:00	16-5	17324	0.063	514.400	0.426	535.200	0.231	ND	ND	0.011	0.002	0.000
6/30/06 0:00	16-6	17325	0.065	511.200	0.470	535.200	0.213	ND	ND	0.012	0.002	0.000
6/30/06 12:00	16-7	17326	0.076	511.200	0.532	535.200	0.232	ND	ND	0.014	0.002	0.000
7/1/06 0:00	16-8	17327	0.075	510.400	0.489	536.000	0.227	ND	ND	0.012	0.002	0.000
7/1/06 12:00	16-9	17328	0.101	514.400	0.511	535.200	0.240	ND	ND	0.012	0.002	0.000
7/2/06 0:00	16-10	17329	0.104	518.400	0.588	535.200	0.313	ND	ND	0.015	0.003	0.000
7/2/06 12:00	16-11	17330	0.088	522.400	0.683	535.200	0.378	ND	ND	0.018	0.004	0.000
7/3/06 0:00	16-12	17331	0.224	510.400	0.945	535.200	0.555	ND	ND	0.022	0.005	0.000
7/3/06 12:00	16-13	17332	0.086	517.600	0.584	535.200	0.344	ND	ND	0.015	0.004	0.000
7/4/06 0:00	16-14	17333	0.076	520.000	0.595	535.200	0.437	ND	ND	0.016	0.005	0.000
7/4/06 12:00	16-15	17334	0.065	510.400	0.466	535.200	0.251	ND	ND	0.012	0.003	0.000
7/5/06 0:00	16-16	17335	0.086	522.400	0.642	535.200	0.430	ND	ND	0.017	0.005	0.000
7/5/06 12:00	16-17	17336	0.140	515.200	0.666	535.200	0.436	ND	ND	0.016	0.004	0.000
7/6/06 0:00	16-18	17337	0.201	517.600	0.741	535.200	0.493	ND	ND	0.016	0.004	0.000
7/6/06 12:00	16-19	17338	0.067	516.800	0.512	535.200	0.248	ND	ND	0.013	0.003	0.000
7/7/06 0:00	16-20	17339	0.095	516.000	0.472	535.200	0.270	ND	ND	0.011	0.002	0.000
7/7/06 12:00	16-21	17340	0.074	516.800	0.448	535.200	0.271	ND	ND	0.011	0.003	0.000
7/8/06 0:00	16-22	17341	0.070	523.200	0.328	535.200	0.233	ND	ND	0.008	0.002	0.000
7/8/06 12:00	16-23	17342	0.056	510.400	0.396	537.600	0.190	ND	ND	0.010	0.002	0.000
7/9/06 0:00	16-24	17343	0.069	521.600	0.368	535.200	0.270	ND	ND	0.009	0.003	0.000

Appendix 9: WKV spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
7/11/06 0:00	17-1	17719	0.086	513.600	0.369	535.200	0.224	ND	ND	0.008	0.002	0.000
7/11/06 12:00	17-2	17720	0.046	511.200	0.358	535.200	0.204	ND	ND	0.009	0.002	0.000
7/12/06 0:00	17-3	17721	0.074	516.800	0.301	535.200	0.189	ND	ND	0.007	0.002	0.000
7/12/06 12:00	17-4	17722	0.079	517.600	0.413	535.200	0.244	ND	ND	0.010	0.002	0.000
7/13/06 0:00	17-5	17723	0.084	517.600	0.533	536.000	0.275	ND	ND	0.013	0.003	0.000
7/13/06 12:00	17-6	17724	0.043	521.600	0.465	535.200	0.269	ND	ND	0.013	0.003	0.000
7/14/06 0:00	17-7	17725	0.087	510.400	0.429	536.000	0.238	ND	ND	0.010	0.002	0.000
7/14/06 12:00	17-8	17726	0.065	515.200	0.380	535.200	0.224	ND	ND	0.009	0.002	0.000
7/15/06 0:00	17-9	17727	0.069	511.200	0.434	535.200	0.211	ND	ND	0.011	0.002	0.000
7/15/06 12:00	17-10	17728	0.128	520.800	0.645	535.200	0.391	ND	ND	0.016	0.004	0.000
7/16/06 0:00	17-11	17729	0.039	524.800	0.368	535.200	0.237	ND	ND	0.010	0.003	0.000
7/16/06 12:00	17-12	17730	0.061	522.400	0.373	535.200	0.227	ND	ND	0.009	0.002	0.000
7/17/06 0:00	17-13	17731	0.062	511.200	0.354	535.200	0.190	ND	ND	0.009	0.002	0.000
7/17/06 12:00	17-14	17732	0.132	517.600	0.469	535.200	0.312	ND	ND	0.010	0.003	0.000
7/18/06 0:00	17-15	17733	0.075	517.600	0.415	535.200	0.264	ND	ND	0.010	0.003	0.000
7/18/06 12:00	17-16	17734	0.064	522.400	0.515	535.200	0.311	ND	ND	0.014	0.003	0.000
7/19/06 0:00	18-1	17626	0.228	516.800	0.934	535.200	0.557	ND	ND	0.021	0.005	0.000
7/19/06 12:00	18-2	17627	0.284	510.400	0.846	536.000	0.571	ND	ND	0.017	0.004	0.000
7/20/06 0:00	18-3	17628	0.427	516.800	1.433	535.200	1.021	ND	ND	0.030	0.008	0.000
7/20/06 12:00	18-4	17629	0.253	520.800	1.303	535.200	0.789	ND	ND	0.032	0.008	0.000
7/21/06 0:00	18-5	17630	0.277	524.800	1.384	535.200	1.170	ND	ND	0.033	0.013	0.000
7/21/06 12:00	18-6	17631	0.250	511.200	0.801	535.200	0.472	ND	ND	0.017	0.003	0.000
7/22/06 0:00	18-7	17632	0.495	518.400	1.498	535.200	1.284	ND	ND	0.030	0.011	0.000
7/22/06 12:00	18-8	17633	0.190	520.000	0.699	535.200	0.473	ND	ND	0.015	0.004	0.000
7/23/06 0:00	18-9	17634	0.253	522.400	1.063	535.200	0.686	ND	ND	0.024	0.006	0.000
7/23/06 12:00	18-10	17635	0.387	518.400	1.312	535.200	0.906	ND	ND	0.028	0.007	0.000
7/24/06 0:00	18-11	17636	0.343	520.000	1.213	535.200	0.873	ND	ND	0.026	0.007	0.000
7/24/06 12:00	18-12	17637	0.298	523.200	1.424	535.200	0.955	ND	ND	0.034	0.009	0.000
7/25/06 0:00	18-13	17638	0.320	516.000	0.926	536.000	0.603	ND	ND	0.018	0.004	0.000
7/25/06 12:00	18-14	17639	0.267	522.400	1.053	535.200	0.650	ND	ND	0.024	0.005	0.000
7/26/06 0:00	19-1	15250	1.922	512.000	3.051	549.600	4.187	ND	ND	0.034	0.032	0.000
7/26/06 12:00	19-2	15251	1.854	524.800	4.490	549.600	5.146	ND	ND	0.079	0.046	0.000
7/27/06 0:00	19-3	15252	1.719	510.400	3.234	535.200	2.948	ND	ND	0.045	0.017	0.000
7/27/06 12:00	19-4	15253	1.772	510.400	3.299	538.400	3.214	ND	ND	0.046	0.020	0.000
7/28/06 0:00	19-5	15254	1.899	512.800	3.392	549.600	4.270	ND	ND	0.045	0.033	0.000
7/28/06 12:00	19-6	15255	2.275	512.800	3.876	549.600	4.873	ND	ND	0.048	0.036	0.000
7/29/06 0:00	19-7	15256	1.964	524.800	4.694	549.600	5.456	ND	ND	0.082	0.049	0.000
7/29/06 12:00	19-8	15257	1.819	524.800	3.710	549.600	5.759	ND	ND	0.057	0.055	0.000
7/30/06 0:00	19-9	15258	1.598	524.800	3.978	548.000	4.270	ND	ND	0.071	0.037	0.000
7/30/06 12:00	19-10	15259	2.130	524.800	3.958	549.600	6.898	ND	ND	0.055	0.067	0.000
7/31/06 0:00	19-11	15260	2.303	510.400	4.171	549.600	4.892	ND	ND	0.056	0.036	0.000

Appendix 9: WKV spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
7/31/06 12:00	19-12	15261	1.580	524.800	3.418	549.600	3.619	ND	ND	0.055	0.029	0.000
8/1/06 0:00	19-13	15262	2.051	524.800	3.507	549.600	5.159	ND	ND	0.044	0.044	0.000
8/1/06 12:00	19-14	15263	1.616	524.800	3.446	549.600	4.785	ND	ND	0.055	0.044	0.000
8/2/06 0:00	20-1	17520	0.155	524.800	1.217	535.200	0.856	ND	ND	0.032	0.010	0.000
8/2/06 12:00	20-2	17521	0.146	523.200	1.275	535.200	0.718	ND	ND	0.034	0.008	0.000
8/3/06 0:00	20-3	17522	0.178	520.000	0.852	535.200	0.548	ND	ND	0.020	0.005	0.000
8/3/06 12:00	20-4	17523	0.193	511.200	0.774	535.200	0.461	ND	ND	0.017	0.004	0.000
8/4/06 0:00	20-5	17524	0.198	522.400	1.221	535.200	0.737	ND	ND	0.031	0.008	0.000
8/4/06 12:00	20-6	17525	0.162	510.400	0.777	535.200	0.454	ND	ND	0.018	0.004	0.000
8/5/06 0:00	20-7	17526	0.137	523.200	0.661	535.200	0.393	ND	ND	0.016	0.004	0.000
8/5/06 12:00	20-8	17527	0.115	520.000	0.762	535.200	0.504	ND	ND	0.019	0.005	0.000
8/6/06 0:00	20-9	17528	0.124	520.000	0.681	535.200	0.360	ND	ND	0.017	0.003	0.000
8/6/06 12:00	20-10	17529	0.185	520.800	0.889	535.200	0.580	ND	ND	0.021	0.006	0.000
8/7/06 0:00	20-11	17530	0.114	524.800	1.079	535.200	0.774	ND	ND	0.029	0.009	0.000
8/7/06 12:00	20-12	17531	0.404	518.400	1.128	535.200	0.897	ND	ND	0.022	0.007	0.000
8/8/06 0:00	20-13	17532	0.124	523.200	1.264	535.200	0.676	ND	ND	0.034	0.008	0.000
8/8/06 12:00	20-14	17533	0.119	519.200	0.767	535.200	0.423	ND	ND	0.019	0.004	0.000
8/9/06 0:00	20-15	17534	0.113	523.200	0.798	535.200	0.478	ND	ND	0.021	0.005	0.000
8/9/06 12:00	20-16	17535	0.185	521.600	0.824	535.200	0.517	ND	ND	0.019	0.005	0.000
8/10/06 0:00	20-17	17536	0.115	521.600	1.196	535.200	0.663	ND	ND	0.032	0.008	0.000
8/10/06 12:00	21-1	16313	0.314	520.800	1.452	535.200	0.916	ND	ND	0.034	0.008	0.000
8/11/06 0:00	21-2	16314	0.465	522.400	2.215	535.200	1.389	ND	ND	0.053	0.013	0.000
8/11/06 12:00	21-3	16315	0.522	510.400	2.161	535.200	1.196	ND	ND	0.049	0.009	0.000
8/12/06 0:00	21-4	16316	0.511	517.600	2.003	535.200	1.237	ND	ND	0.045	0.010	0.000
8/12/06 12:00	21-5	16317	0.461	521.600	3.012	535.200	1.793	ND	ND	0.077	0.019	0.000
8/13/06 0:00	21-6	16318	0.754	523.200	3.479	535.200	2.200	ND	ND	0.082	0.020	0.000
8/13/06 12:00	21-7	16319	0.353	521.600	1.670	535.200	1.079	ND	ND	0.040	0.010	0.000
8/14/06 0:00	21-8	16320	0.515	520.000	1.636	535.200	1.189	ND	ND	0.034	0.009	0.000
8/14/06 12:00	21-9	16321	0.697	521.600	2.511	535.200	1.687	ND	ND	0.054	0.014	0.000
8/15/06 0:00	21-10	16322	0.378	521.600	1.624	535.200	1.116	ND	ND	0.037	0.010	0.000
8/15/06 12:00	21-11	16323	0.349	520.000	1.899	535.200	1.106	ND	ND	0.047	0.011	0.000
8/16/06 0:00	21-12	16324	0.369	522.400	1.899	535.200	1.166	ND	ND	0.046	0.011	0.000
8/16/06 12:00	21-13	16325	0.401	518.400	1.728	535.200	1.054	ND	ND	0.040	0.009	0.000
8/17/06 0:00	21-14	16326	0.393	520.800	1.351	535.200	0.912	ND	ND	0.029	0.007	0.000
8/17/06 12:00	21-15	16327	0.366	510.400	1.342	535.200	0.740	ND	ND	0.029	0.005	0.000
8/18/06 0:00	21-16	16328	0.353	521.600	2.508	535.200	1.519	ND	ND	0.065	0.016	0.000
8/18/06 12:00	21-17	16329	0.346	518.400	1.638	535.200	1.020	ND	ND	0.039	0.009	0.000
8/19/06 0:00	21-18	16330	0.380	521.600	2.414	535.200	1.402	ND	ND	0.061	0.014	0.000
8/19/06 12:00	21-19	16331	0.411	522.400	2.573	535.200	1.503	ND	ND	0.065	0.015	0.000
8/20/06 0:00	21-20	16332	0.333	518.400	1.434	535.200	0.881	ND	ND	0.033	0.008	0.000
8/20/06 12:00	21-21	16333	0.318	520.800	1.436	535.200	0.960	ND	ND	0.034	0.009	0.000

Appendix 9: WKV spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
8/21/06 0:00	21-22	16334	0.335	516.800	1.822	535.200	1.060	ND	ND	0.045	0.010	0.000
8/21/06 12:00	21-23	16335	0.325	524.000	1.730	535.200	1.042	ND	ND	0.042	0.010	0.000
8/22/06 0:00	22-1	16615	1.160	515.200	2.863	535.200	2.022	ND	ND	0.051	0.012	0.000
8/22/06 12:00	22-2	16616	1.140	516.000	3.391	535.200	2.248	ND	ND	0.068	0.016	0.000
8/23/06 0:00	22-3	16617	0.973	521.600	3.363	535.200	2.250	ND	ND	0.072	0.018	0.000
8/23/06 12:00	22-4	16618	0.929	519.200	3.256	535.200	2.080	ND	ND	0.070	0.016	0.000
8/24/06 0:00	22-5	16619	0.833	520.000	4.433	535.200	2.617	ND	ND	0.108	0.025	0.000
8/24/06 12:00	22-6	16620	0.569	520.000	2.390	535.200	1.438	ND	ND	0.055	0.012	0.000
8/25/06 0:00	22-7	16621	0.614	518.400	2.497	535.200	1.512	ND	ND	0.056	0.013	0.000
8/25/06 12:00	22-8	16622	0.638	518.400	2.825	535.200	1.681	ND	ND	0.066	0.015	0.000
8/26/06 0:00	22-9	16623	0.613	522.400	2.111	535.200	1.379	ND	ND	0.045	0.011	0.000
8/26/06 12:00	22-10	16624	0.676	522.400	3.581	535.200	2.104	ND	ND	0.087	0.020	0.000
8/27/06 0:00	22-11	16625	0.585	523.200	2.671	535.200	1.637	ND	ND	0.063	0.015	0.000
8/27/06 12:00	22-12	16626	0.498	520.800	2.146	535.200	1.283	ND	ND	0.049	0.011	0.000
8/28/06 0:00	22-13	16627	0.619	520.800	2.335	535.200	1.474	ND	ND	0.051	0.012	0.000
8/28/06 12:00	22-14	16628	0.697	519.200	2.101	535.200	1.543	ND	ND	0.042	0.012	0.000
8/29/06 0:00	22-15	16629	0.471	519.200	1.806	535.200	1.096	ND	ND	0.040	0.009	0.000
8/29/06 12:00	22-16	16630	0.611	520.800	1.855	535.200	1.234	ND	ND	0.037	0.009	0.000
8/30/06 0:00	22-17	16631	0.535	520.000	1.764	535.200	1.119	ND	ND	0.037	0.008	0.000
8/30/06 12:00	22-18	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/11/06 12:00	23-1	17037	0.500	511.200	1.163	535.200	0.832	ND	ND	0.020	0.005	0.000
9/12/06 0:00	23-2	17038	0.447	524.800	1.283	535.200	1.110	ND	ND	0.025	0.009	0.000
9/12/06 12:00	23-3	17039	0.248	512.800	1.242	535.200	0.886	ND	ND	0.030	0.009	0.000
9/13/06 0:00	23-4	17040	0.665	520.800	1.642	535.200	1.444	ND	ND	0.029	0.011	0.000
9/13/06 12:00	23-5	17041	1.425	510.400	3.588	535.200	3.136	ND	ND	0.065	0.024	0.000
9/14/06 0:00	23-6	17042	0.403	517.600	0.895	535.200	0.706	ND	ND	0.015	0.004	0.000
9/14/06 12:00	23-7	17043	0.441	516.000	1.606	535.200	1.228	ND	ND	0.035	0.011	0.000
9/15/06 0:00	23-8	17044	0.349	510.400	1.232	535.200	0.841	ND	ND	0.026	0.007	0.000
9/15/06 12:00	23-9	17045	0.269	512.000	1.205	535.200	0.876	ND	ND	0.028	0.008	0.000
9/16/06 0:00	23-10	17046	0.293	510.400	1.237	535.200	0.764	ND	ND	0.028	0.007	0.000
9/16/06 12:00	23-11	17047	0.221	518.400	0.724	535.200	0.519	ND	ND	0.015	0.004	0.000
9/17/06 0:00	23-12	17048	0.230	524.800	1.372	535.200	1.185	ND	ND	0.034	0.013	0.000
9/17/06 12:00	23-13	17049	0.420	524.800	1.167	535.200	0.997	ND	ND	0.022	0.008	0.000
9/18/06 0:00	23-14	17050	0.353	510.400	1.519	535.200	1.080	ND	ND	0.035	0.010	0.000
9/18/06 12:00	23-15	17051	0.150	512.000	0.811	536.000	0.452	ND	ND	0.020	0.004	0.000
9/19/06 0:00	24-1	16204	1.915	511.200	4.669	535.200	3.375	ND	ND	0.083	0.020	0.000
9/19/06 12:00	24-2	16205	5.927	518.400	12.937	536.000	11.770	ND	ND	0.210	0.082	0.000
9/20/06 0:00	24-3	16206	1.079	518.400	4.173	535.200	2.509	ND	ND	0.093	0.020	0.000
9/20/06 12:00	24-4	16207	0.938	510.400	3.199	535.200	1.893	ND	ND	0.068	0.013	0.000
9/21/06 0:00	24-5	16208	1.192	520.800	3.750	535.200	2.780	ND	ND	0.077	0.022	0.000
9/21/06 12:00	24-6	16209	1.080	520.800	4.229	535.200	2.824	ND	ND	0.094	0.024	0.000

Appendix 9: WKV spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
9/22/06 0:00	24-7	16210	1.652	510.400	5.888	535.200	4.419	ND	ND	0.127	0.039	0.000
9/22/06 12:00	24-8	16211	1.728	524.000	5.402	535.200	4.713	ND	ND	0.110	0.042	0.000
9/23/06 0:00	24-9	16212	2.649	518.400	5.274	535.200	4.748	ND	ND	0.079	0.029	0.000
9/23/06 12:00	24-10	16213	1.339	510.400	5.815	535.200	3.040	ND	ND	0.134	0.024	0.000
9/24/06 0:00	24-11	16214	2.520	510.400	6.751	535.200	5.277	ND	ND	0.127	0.039	0.000
9/24/06 12:00	24-12	16215	3.496	510.400	12.231	535.200	7.959	ND	ND	0.262	0.062	0.000
9/25/06 0:00	24-13	16216	2.435	511.200	5.229	535.200	3.833	ND	ND	0.084	0.020	0.000
9/25/06 12:00	24-14	16217	0.763	510.400	2.379	ND	ND	555.200	0.881	0.048	0.000	0.002
9/26/06 0:00	24-15	16218	1.820	518.400	3.866	535.200	3.285	ND	ND	0.061	0.021	0.000
9/26/06 12:00	24-16	16219	2.154	516.800	5.074	535.200	4.327	ND	ND	0.088	0.030	0.000
9/27/06 0:00	24-17	16220	1.513	517.600	3.289	535.200	2.588	ND	ND	0.053	0.015	0.000
9/27/06 12:00	24-18	16221	2.543	510.400	5.705	536.000	4.593	ND	ND	0.095	0.029	0.000
9/28/06 0:00	24-19	16222	1.180	519.200	2.814	535.200	2.403	ND	ND	0.049	0.017	0.000
9/28/06 12:00	24-20	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
9/29/06 0:00	25-1	17985	1.311	514.400	3.790	535.200	2.501	ND	ND	0.074	0.017	0.000
9/29/06 12:00	25-2	17986	1.987	510.400	11.843	535.200	7.255	ND	ND	0.296	0.074	0.000
9/30/06 0:00	25-3	17987	0.889	510.400	2.989	535.200	1.747	ND	ND	0.063	0.012	0.000
9/30/06 12:00	25-4	17988	1.736	510.400	5.935	535.200	4.166	ND	ND	0.126	0.034	0.000
10/1/06 0:00	25-5	17989	2.072	518.400	6.277	535.200	4.627	ND	ND	0.126	0.036	0.000
10/1/06 12:00	25-6	17990	1.507	524.000	4.564	535.200	3.848	ND	ND	0.092	0.033	0.000
10/2/06 0:00	25-7	17991	1.131	511.200	2.816	536.000	2.154	ND	ND	0.051	0.014	0.000
10/2/06 12:00	25-8	17992	2.186	510.400	5.330	535.200	4.104	ND	ND	0.094	0.027	0.000
10/3/06 0:00	25-9	17993	0.946	524.800	5.469	535.200	4.490	ND	ND	0.136	0.050	0.000
10/3/06 12:00	25-10	17994	1.219	524.800	3.719	535.200	3.254	ND	ND	0.075	0.028	0.000
10/4/06 0:00	25-11	17995	0.916	520.800	3.169	535.200	2.067	ND	ND	0.068	0.016	0.000
10/4/06 12:00	25-12	17996	0.750	512.800	3.315	535.200	2.064	ND	ND	0.077	0.018	0.000
10/5/06 0:00	25-13	17997	0.983	520.000	2.605	535.200	1.994	ND	ND	0.049	0.014	0.000
10/5/06 12:00	25-14	17998	1.096	520.000	3.097	535.200	2.290	ND	ND	0.060	0.017	0.000
10/6/06 0:00	25-15	17999	0.555	523.200	2.245	535.200	1.677	ND	ND	0.051	0.016	0.000
10/6/06 12:00	25-16	18000	0.804	522.400	2.260	535.200	1.668	ND	ND	0.044	0.012	0.000
10/7/06 0:00	25-17	18001	0.656	520.000	1.768	535.200	1.360	ND	ND	0.033	0.010	0.000
10/7/06 12:00	25-18	18002	0.883	524.800	2.659	535.200	2.387	ND	ND	0.053	0.021	0.000
10/8/06 0:00	25-19	18003	0.690	516.000	1.696	535.200	1.540	ND	ND	0.030	0.012	0.000
10/8/06 12:00	25-20	18004	0.854	524.800	2.133	535.200	1.845	ND	ND	0.038	0.014	0.000
10/9/06 0:00	25-21	18005	0.480	510.400	1.645	535.200	0.982	ND	ND	0.035	0.007	0.000
10/9/06 12:00	25-22	18006	1.360	510.400	5.995	535.200	3.940	ND	ND	0.139	0.036	0.000
10/10/06 0:00	25-23	18007	0.374	523.200	1.346	535.200	0.930	ND	ND	0.029	0.008	0.000
10/10/06 12:00	25-24	18008	0.355	521.600	1.371	535.200	0.999	ND	ND	0.030	0.009	0.000
10/11/06 0:00	26-1	16918	1.034	510.400	3.509	535.200	2.933	ND	ND	0.074	0.027	0.000
10/11/06 12:00	26-2	16919	0.638	521.600	4.069	535.200	2.545	ND	ND	0.103	0.027	0.000
10/12/06 0:00	26-3	16920	1.257	512.800	4.061	535.200	2.805	ND	ND	0.084	0.022	0.000

Appendix 9: WKV spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
10/12/06 12:00	26-4	16921	1.092	510.400	3.317	535.200	1.875	ND	ND	0.067	0.011	0.000
10/13/06 0:00	26-5	16922	0.593	510.400	2.498	535.200	1.223	ND	ND	0.057	0.009	0.000
10/13/06 12:00	26-6	16923	0.679	524.800	2.452	535.200	2.201	ND	ND	0.053	0.021	0.000
10/14/06 0:00	26-7	16924	0.859	521.600	2.656	535.200	1.934	ND	ND	0.054	0.015	0.000
10/14/06 12:00	26-8	16925	0.522	510.400	2.551	535.200	1.117	ND	ND	0.061	0.008	0.000
10/15/06 0:00	26-9	16926	0.802	510.400	4.183	535.200	2.028	ND	ND	0.101	0.017	0.000
10/15/06 12:00	26-10	16927	0.798	520.800	2.280	535.200	1.887	ND	ND	0.044	0.015	0.000
10/16/06 0:00	26-11	16928	0.678	510.400	3.695	535.200	2.459	ND	ND	0.091	0.025	0.000
10/16/06 12:00	26-12	16929	0.724	511.200	2.794	535.200	1.510	ND	ND	0.062	0.011	0.000
10/17/06 0:00	26-13	16930	1.046	521.600	3.057	535.200	2.664	ND	ND	0.060	0.023	0.000
10/17/06 12:00	26-14	16931	0.993	510.400	3.521	535.200	2.756	ND	ND	0.076	0.025	0.000
10/18/06 0:00	26-15	16932	0.853	524.800	3.115	535.200	2.637	ND	ND	0.068	0.025	0.000
10/18/06 12:00	26-16	16933	0.613	516.000	2.623	535.200	1.734	ND	ND	0.060	0.016	0.000
10/19/06 0:00	27-1	16823	1.351	524.800	3.973	535.200	3.814	ND	ND	0.079	0.034	0.000
10/19/06 12:00	27-2	16824	1.098	516.800	3.602	535.200	2.253	ND	ND	0.075	0.016	0.000
10/20/06 0:00	27-3	16825	2.304	510.400	11.371	535.200	5.645	ND	ND	0.272	0.047	0.000
10/20/06 12:00	27-4	16826	1.157	521.600	3.136	535.200	2.541	ND	ND	0.059	0.019	0.000
10/21/06 0:00	27-5	16827	1.727	518.400	4.312	535.200	3.570	ND	ND	0.078	0.026	0.000
10/21/06 12:00	27-6	16828	0.825	516.800	2.837	535.200	1.793	ND	ND	0.060	0.014	0.000
10/22/06 0:00	27-7	16829	0.801	511.200	2.713	535.200	2.171	ND	ND	0.057	0.019	0.000
10/22/06 12:00	27-8	16830	1.852	510.400	7.079	535.200	3.895	ND	ND	0.157	0.029	0.000
10/23/06 0:00	27-9	16831	1.114	523.200	3.661	535.200	2.642	ND	ND	0.076	0.021	0.000
10/23/06 12:00	27-10	16832	0.986	510.400	4.976	535.200	2.338	ND	ND	0.120	0.019	0.000
10/24/06 0:00	27-11	16833	0.811	510.400	2.768	535.200	2.256	ND	ND	0.059	0.020	0.000
10/24/06 12:00	27-12	16834	1.162	522.400	3.328	535.200	2.797	ND	ND	0.065	0.023	0.000
10/25/06 0:00	27-13	16835	1.198	512.000	2.700	535.200	1.972	ND	ND	0.045	0.011	0.000
10/25/06 12:00	27-14	16836	0.574	522.400	1.853	535.200	1.401	ND	ND	0.038	0.012	0.000
10/26/06 0:00	27-15	16837	1.402	518.400	3.015	535.200	2.307	ND	ND	0.048	0.013	0.000
10/26/06 12:00	27-16	16838	0.723	510.400	2.556	535.200	1.403	ND	ND	0.055	0.010	0.000
10/27/06 0:00	27-17	16839	0.977	523.200	2.661	535.200	2.036	ND	ND	0.051	0.015	0.000
10/27/06 12:00	28-1	16050	0.856	520.000	2.683	535.200	2.005	ND	ND	0.055	0.016	0.000
10/28/06 0:00	28-2	16051	0.657	520.000	2.686	535.200	2.257	ND	ND	0.061	0.022	0.000
10/28/06 12:00	28-3	16052	0.655	510.400	4.078	535.200	2.520	ND	ND	0.103	0.026	0.000
10/29/06 0:00	28-4	16053	0.961	513.600	3.009	535.200	1.974	ND	ND	0.061	0.014	0.000
10/29/06 12:00	28-5	16054	0.716	514.400	2.230	535.200	1.572	ND	ND	0.045	0.012	0.000
10/30/06 0:00	28-6	16055	0.524	510.400	3.142	535.200	1.856	ND	ND	0.079	0.019	0.000
10/30/06 12:00	28-7	16056	0.576	511.200	2.243	535.200	1.266	ND	ND	0.050	0.010	0.000
10/31/06 0:00	28-8	16057	0.558	510.400	2.186	535.200	1.205	ND	ND	0.049	0.009	0.000
10/31/06 12:00	28-9	16058	0.469	510.400	2.059	535.200	1.098	ND	ND	0.048	0.009	0.000
11/1/06 0:00	28-10	SNA	SNA	SNA	SNA	SNA	SNA	SNA	SNA	N/A	N/A	N/A
11/1/06 12:00	28-11	16060	0.443	524.800	1.462	535.200	1.215	ND	ND	0.031	0.011	0.000

Appendix 9: WKV spectrofluorophotometer data, continued.

Date Time	Field Sample Number	Lab Sample Number	Meas. Baseline (MEAS)	AY73 Wavelen (MEAS)	AY73 Intens (MEAS)	AR87 Wavelen (MEAS)	AR87 Intens (MEAS)	AR92 Wavelen (MEAS)	AR92 Intens (MEAS)	AY73 PPB (CALC)	AR87 PPB (CALC)	AR92 PPB (CALC)
11/2/06 0:00	28-12	16061	0.427	510.400	1.593	535.200	0.938	ND	ND	0.035	0.007	0.000
11/2/06 12:00	28-13	16062	0.790	510.400	3.140	535.200	2.121	ND	ND	0.071	0.019	0.000
11/3/06 0:00	28-14	16063	0.705	520.000	1.938	535.200	1.542	ND	ND	0.037	0.012	0.000
11/3/06 12:00	28-15	16064	0.384	511.200	1.449	535.200	0.894	ND	ND	0.032	0.007	0.000
11/4/06 0:00	28-16	16065	0.391	516.800	1.523	535.200	0.974	ND	ND	0.034	0.008	0.000
11/4/06 12:00	28-17	16066	0.356	518.400	1.152	535.200	0.801	ND	ND	0.024	0.006	0.000
11/5/06 0:00	28-18	16067	0.356	519.200	1.091	535.200	0.770	ND	ND	0.022	0.006	0.000
11/5/06 12:00	28-19	16068	0.431	516.800	1.120	535.200	0.805	ND	ND	0.021	0.005	0.000
11/6/06 0:00	28-20	16069	0.371	524.800	2.021	535.200	1.640	ND	ND	0.050	0.018	0.000
11/6/06 12:00	28-21	16070	0.885	516.800	2.800	535.200	2.443	ND	ND	0.057	0.022	0.000
11/7/06 0:00	28-22	16071	0.301	516.800	0.978	535.200	0.728	ND	ND	0.020	0.006	0.000
11/7/06 12:00	28-23	16072	0.308	516.800	0.915	535.200	0.645	ND	ND	0.018	0.005	0.000
11/8/06 0:00	29-1	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
11/8/06 12:00	29-2	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
11/9/06 0:00	29-3	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
11/9/06 12:00	29-4	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
11/10/06 0:00	29-5	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
11/10/06 12:00	29-6	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
11/11/06 0:00	29-7	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
11/11/06 12:00	29-8	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
11/12/06 0:00	29-9	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
11/12/06 12:00	29-10	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
11/13/06 0:00	29-11	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
11/13/06 12:00	29-12	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
11/14/06 0:00	29-13	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
11/14/06 12:00	29-14	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
11/15/06 0:00	29-15	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
11/15/06 12:00	29-16	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
11/16/06 0:00	29-17	NSC	NSC	NSC	NSC	NSC	NSC	NSC	NSC	N/A	N/A	N/A
11/16/06 12:00	30-1	15942	0.709	514.400	2.350	536.000	1.674	ND	ND	0.049	0.014	0.000
11/17/06 0:00	30-2	15943	1.094	510.400	11.082	535.200	4.022	ND	ND	0.300	0.041	0.000
11/17/06 12:00	30-3	15944	0.819	520.000	1.802	535.200	1.547	ND	ND	0.029	0.010	0.000
11/18/06 0:00	30-4	15945	0.688	518.400	1.604	535.200	1.421	ND	ND	0.027	0.010	0.000
11/18/06 12:00	30-5	15946	0.530	518.400	1.550	535.200	1.268	ND	ND	0.031	0.010	0.000
11/19/06 0:00	30-6	15947	0.297	517.600	1.220	535.200	0.785	ND	ND	0.028	0.007	0.000
11/19/06 12:00	30-7	15948	0.629	510.400	2.297	535.200	1.729	ND	ND	0.050	0.015	0.000
11/20/06 0:00	30-8	15949	0.594	524.000	1.926	535.200	1.542	ND	ND	0.040	0.013	0.000
11/20/06 12:00	30-9	15950	0.320	523.200	1.046	535.200	0.784	ND	ND	0.022	0.006	0.000
11/21/06 0:00	30-10	15951	0.545	518.400	1.630	535.200	1.377	ND	ND	0.033	0.012	0.000
11/21/06 12:00	30-11	15952	0.426	516.800	1.440	535.200	1.022	ND	ND	0.030	0.008	0.000

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Herschel T. Vinyard Jr., Secretary

REGULATORY PROGRAMS
Jeff Littlejohn, Deputy Secretary

OFFICE OF THE FLORIDA GEOLOGICAL SURVEY
Jonathan D. Arthur, State Geologist and Director

ADMINISTRATION SECTION
Jacqueline M. Lloyd, Assistant State Geologist

Sarah Allen, Administrative Assistant
Traci Billingsley, Business Manager
Jan Delaney, Environmental Supervisor
Eric Harrington, Administrative Secretary
Katie Tofano, Archivist

GEOLOGICAL INVESTIGATIONS SECTION
Guy H. Means, Assistant State Geologist

Seth Bassett, Environmental Specialist
Ken Campbell, Professional Geologist
Bob Cleveland, Engineering Specialist
Will Evans, Professional Geologist
Andy Flor, Geologist
Rick Green, Professional Geologist
Levi Hannon, Environmental Specialist
Jesse Hurd, Laboratory Technician
Clint Kromhout, Professional Geologist
Dave Paul, Professional Geologist
Dan Phelps, Professional Geologist
Guy Richardson, Engineering Technician
Wade Stringer, Engineering Specialist
Eric Thomas, Engineering Technician
Christopher Williams, Professional Geologist

APPLIED GEOSCIENCE SERVICES SECTION
Rodney DeHan, Environmental Administrator

Alan Baker, Professional Geologist
Scott Barrett Dyer, Environmental Specialist
Doug Calman, Librarian
Jim Cichon, Environmental Specialist
Katy Etheridge, Laboratory Technician
Cindy Fischler, Professional Geologist
Tom Greenhalgh, Professional Geologist
Paul Hansard, Professional Geologist
Chantel Iacoviello, Environmental Specialist
Michelle Ladle, Geologist
Frank Rupert, Professional Geologist
Andy Smith, Professional Geologist
Keith Wood, Environmental Specialist