

RECEIVED

JAN 29 2007

NC ECOSYSTEM
ENHANCEMENT PROGRAM

**Cox Mitigation Project
Johnston County, North Carolina**

Year 1 Monitoring Report



NC ECOSYSTEM
ENHANCEMENT PROGRAM

JAN 25 2007

RECEIVED

Prepared for
Environmental Banc and Exchange, LLC
909 Capability Drive, Suite 3100
Raleigh, NC 27606

Prepared by
WK Dickson and Co., Inc.
3101 John Humphries Wynd
Raleigh, NC 27612
(919) 782-0495

And

Ecosystem & Land Trust Monitoring
Sparta, NC

January 2007

TABLE OF CONTENTS

1.0	SUMMARY	1
2.0	INTRODUCTION	2
2.1	Project Description	2
2.2	Project Purpose	2
2.3	Project History and Schedule	2
3.0	HYDROLOGY	2
3.1	Hydrology Success Criteria	2
3.2	Description of Hydrology Monitoring	2
3.3	Results of Hydrology Monitoring	7
3.4	Hydrology Conclusions	13
4.0	VEGETATION	15
4.1	Vegetation Success Criteria	15
4.2	Description of Species and Vegetation Monitoring	15
4.3	Results of Vegetation Monitoring	16
4.4	General Vegetation Observations	17
4.5	Vegetation Conclusions	17
5.0	STREAM MONITORING	17
5.1	Stream Success Criteria	17
5.2	Description of Stream Monitoring	18
5.3	Results of Stream Monitoring	18
6.0	OVERALL CONCLUSIONS AND RECOMMENDATIONS	19

LIST OF FIGURES

Figure 1.	Vicinity Map	3
Figure 2.	USGS Quadrangle	4
Figure 3.	Site Plan	5,6
Figure 4.	2006 Groundwater Gauge Hydrographs	8-10
Figure 5.	2006 Reference Gauge Hydrograph	12
Figure 6.	2006 Precipitation	14

LIST OF TABLES

Table 1.	Project History	2
Table 2.	Hydrologic Monitoring Results for 2006	11
Table 3.	Reference Monitoring Results for 2006	11
Table 4.	Johnston County Normal Rainfall and 2006 Observed Rainfall	13
Table 5.	Planted Tree Species	15
Table 6.	2006 Vegetation Monitoring Plot Species Composition	16
Table 7.	Volunteer Tree Species	17
Table 8.	Vegetation Problem Areas	17
Table 9.	Stream Problem Areas	19

APPENDICES

Appendix A	As-Built Survey
Appendix B	2006 Profile and Cross Sections
Appendix C	2006 Gauge Data
Appendix D	2006 Site Photos

1.0 SUMMARY

This Annual Report details the monitoring activities during the 2006 growing season on the Cox Mitigation Site. Construction of the site was completed in December 2005. The 2006 data represents results from the first year of hydrologic, vegetation monitoring, and stability for both wetlands and streams.

Restoration of the Cox site involves stream restoration, stream enhancement, riverine wetland restoration, and non-riverine wetland restoration. Restoration of the site involved the restoration of a stable meandering channel across hydric agricultural fields. The channel was designed and constructed using natural channel design techniques. Restoration also involved raising the local water table by filling drainage ditches on-site and creation of microtopography across the site. After construction, it was determined there was 7,292 feet of stream restoration, 350 feet of stream enhancement, 26.8 acres of riverine wetland restoration, and 16.9 acres of non-riverine wetland restoration. Appendix A contains the As-Built survey.

This Annual Report presents the data from 10 hydrologic monitoring stations, 22 vegetation monitoring plots, crest gauge, rain gauge, 3,000 linear feet of stream profile survey, and 16 cross sections, as required by the approved Mitigation Plan for the site. Five of the hydrologic stations are equipped with manual groundwater gauges and five stations are equipped with automated gauges and a manual calibration gauge.

Weather station data from the Smithfield Weather Station were used in conjunction with a manual rain gauge located on the site to document precipitation amounts. The manual gauge is used to validate observations made at the automated station. During the 2006 growing season, the rainfall total was within normal limits.

In 2006, 7 of 10 hydrology monitoring gauges recorded hydroperiods of at least 7 percent of the growing season. One monitoring gauge recorded a hydroperiod of 6 percent of the growing season. Based on these results, it was concluded that the majority of the site is performing as designed. It is important to note that the hydrology of the targeted restored wetland system is highly variable across a given site, supporting the ecological and functional diversity that makes these wetland systems so valuable.

This Annual Report documents vegetation survival based on twenty-two vegetation-monitoring plots, as specified in the approved mitigation plan for this site. The twenty-two monitoring plots are 10 meter x 10 meters or 0.025 of an acre in size. They are randomly located to represent the different zones within the project. The vegetation monitoring indicated a survival range of 520 stems per acre to 800 stems per acre with an overall average of 675 stems per acre. Overall, the site is on track for meeting the initial vegetation survival criteria of 320 stems per acre surviving after the third growing season.

The restored stream channel has remained stable and is providing the intended habitat and hydrologic functions. All monitoring cross-sections for 2006 showed very little adjustment in stream dimension. The profile survey showed no head cuts or other stream stability problems. Two repaired structures are stable.

2.0 INTRODUCTION

2.1 Project Description

The Cox wetland and stream restoration site is located near the community of Bentonville in Johnston County, North Carolina (Figure 1 and Figure 2). The site has a past history of agricultural use consisting primarily of row crop agriculture. Ditches on the site were used to increase subsurface drainage when the land was under agricultural production. Construction of the site, including planting of trees, was completed in December 2005. Groundwater, surface water, and rain gauges were functional beginning January 2006. The 2006 monitoring season represents the first year of monitoring for the site. As-built survey is included as Appendix A.

2.2 Purpose

Monitoring of the Cox Site is required to demonstrate successful restoration based on the criteria found in the Restoration Plan and through a comparison to reference site conditions. Hydrologic, vegetation, and stream monitoring are conducted on an annual basis. Success criteria must be met for five consecutive years. This Annual Report details the results of the monitoring efforts for 2006 (Year 1) at the Cox Mitigation Site.

2.3 Project History

Table 1. Project History

Project History	
January 2005	Construction Completed
January 2006	Post-restoration Monitoring Begins
November 2006	1st Annual Monitoring Report
November 2007 (scheduled)	2nd Annual Monitoring Report
November 2008 (scheduled)	3rd Annual Monitoring Report
November 2009 (scheduled)	4th Annual Monitoring Report
November 2010 (scheduled)	5th Annual Monitoring Report

3.0 HYDROLOGY

3.1 Hydrology Success Criteria

As stated in the approved Restoration Plan, to meet the hydrologic success criteria, the monitoring data must show that for each normal year of rainfall within the monitoring period, the site has been inundated or saturated within 12 inches of the soil surface for a minimum of 7 percent of the growing season (17 days). The day counts are based on the growing season for Johnston County, which is 232 days long (17 March – 5 November). As specified in the approved Restoration Plan, data are collected from five automated and five manual groundwater gauges.

The Restoration Plan further specified that in order for the hydrologic data to be considered successful it must be demonstrated that precipitation is either within or below normal limits.

3.2 Description of Hydrology Monitoring Efforts

Five manual groundwater gauges, five automated Infinities groundwater gauges, and one manual stream crest gauge were installed prior to the beginning of the 2006 growing season (Figure 3). The monitoring protocol for the site specifies that automated monitoring stations will be downloaded and checked for malfunctions on a monthly basis. During monthly site visits, manual groundwater gauges are read, the crest gauge is read, and rainfall totals are collected from the on-site rain gauge. During the

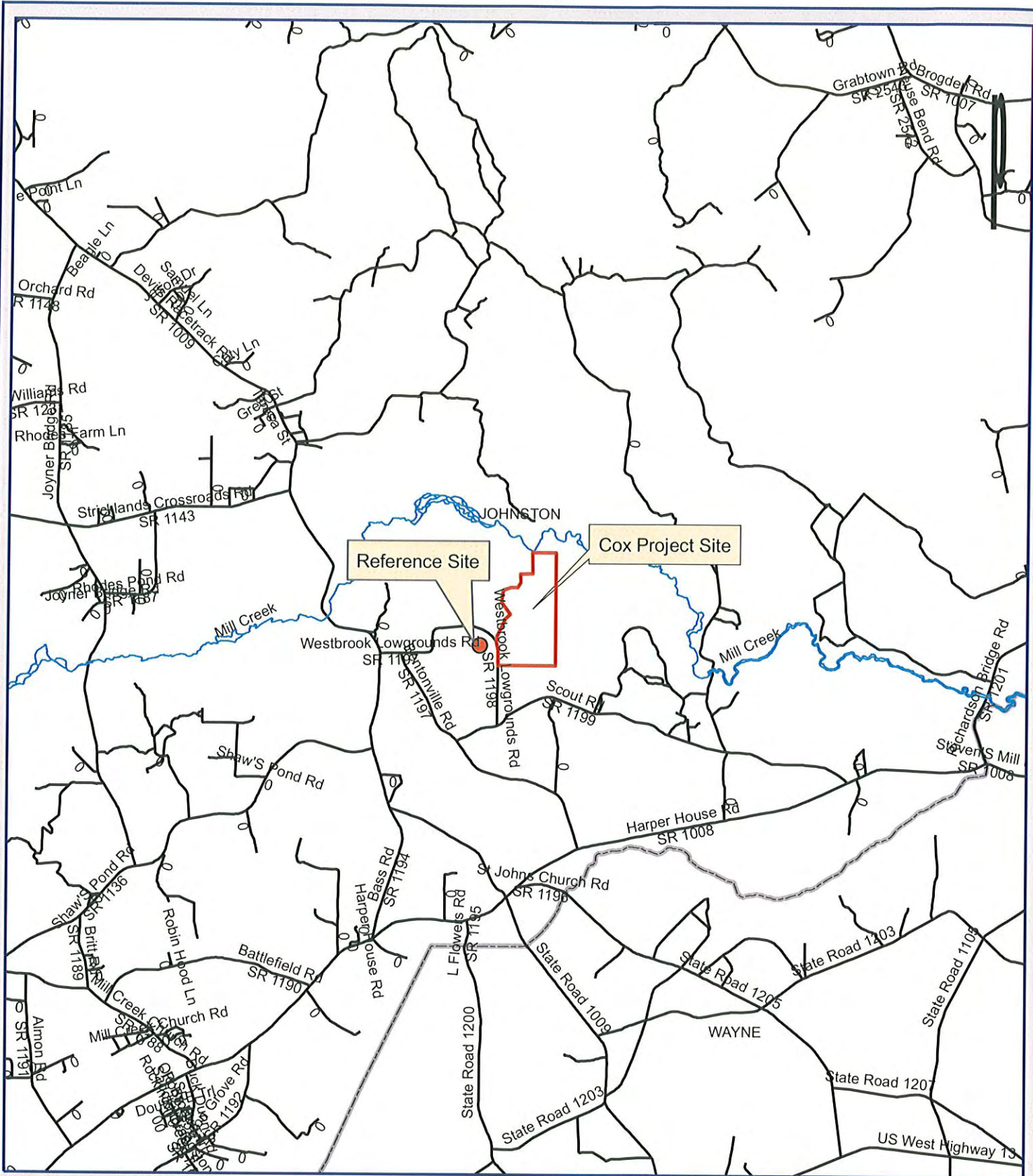


Figure 1.
 Cox Stream Mitigation Site
 Project Location Map
 Johnston County, NC

1 inch equals 1 miles



- Reference_Sites
- Streams
- Roads
- Westbrook Site



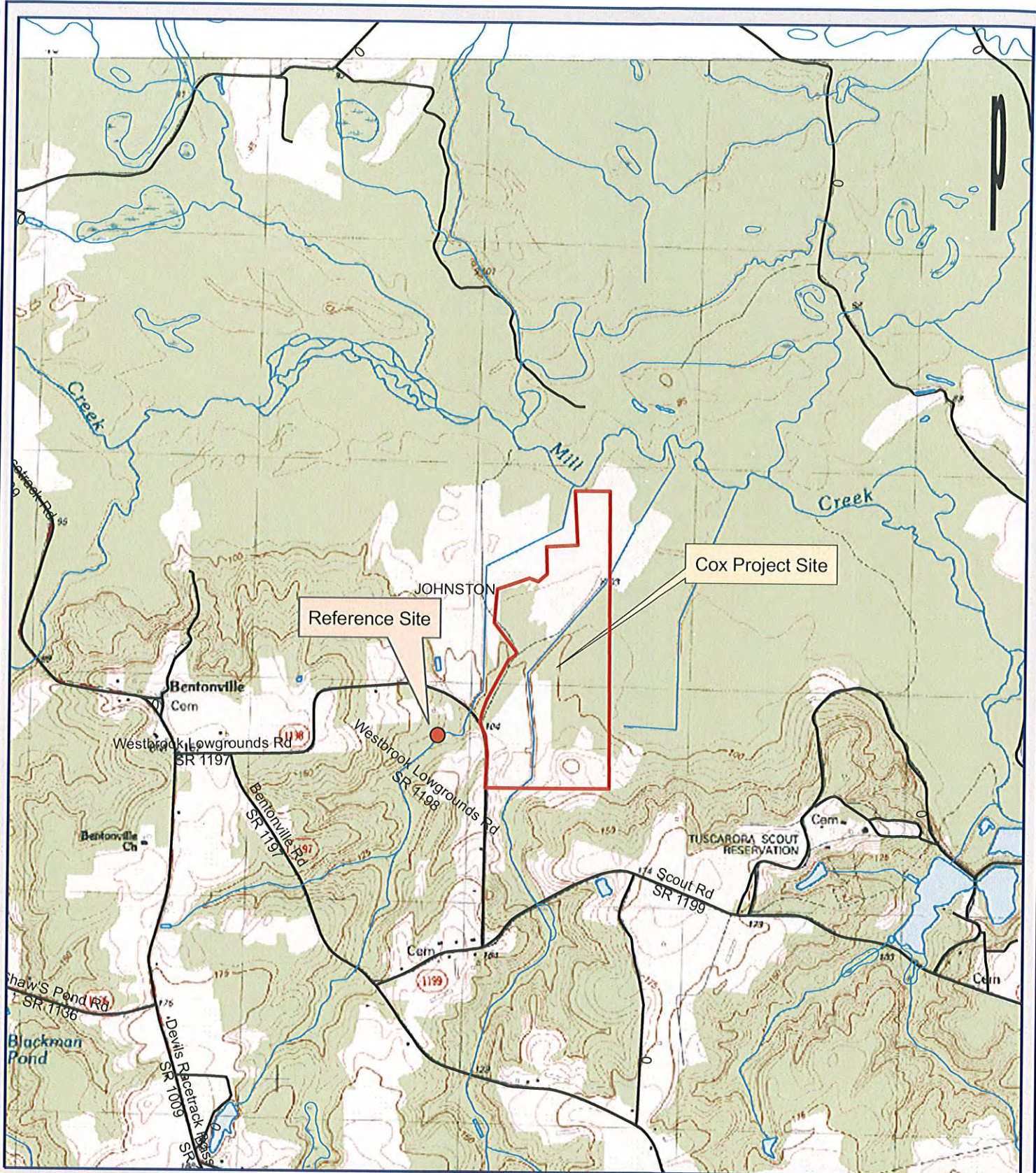
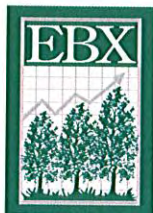


Figure 2.
Cox Stream Mitigation Site
USGS Topographic Map
Johnston County, NC

1 inch equals 2,000 feet



- Reference_Sites
- Streams
- Roads
- Westbrook Site



WETLAND HYDROPERIOD

- > 7 %
- ◐ 5-7 %
- < 5 %

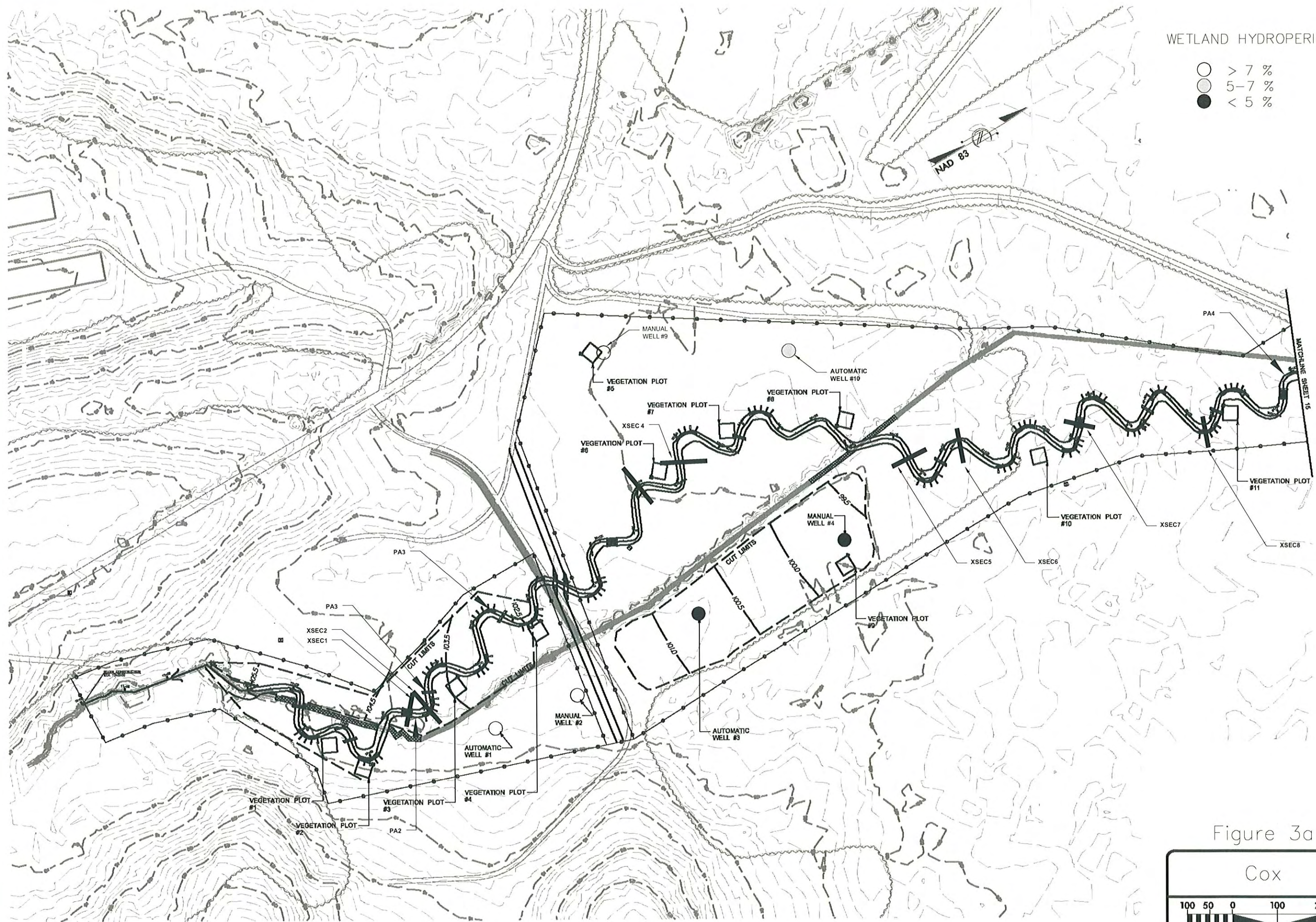
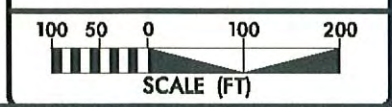


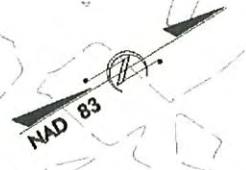
Figure 3a

Cox



WETLAND HYDROPERIOD

- > 7 %
- ◐ 5-7 %
- < 5 %



ADJACENT PROPERTY CURRENTLY OWNED BY EBX-NEUSE I, LLC

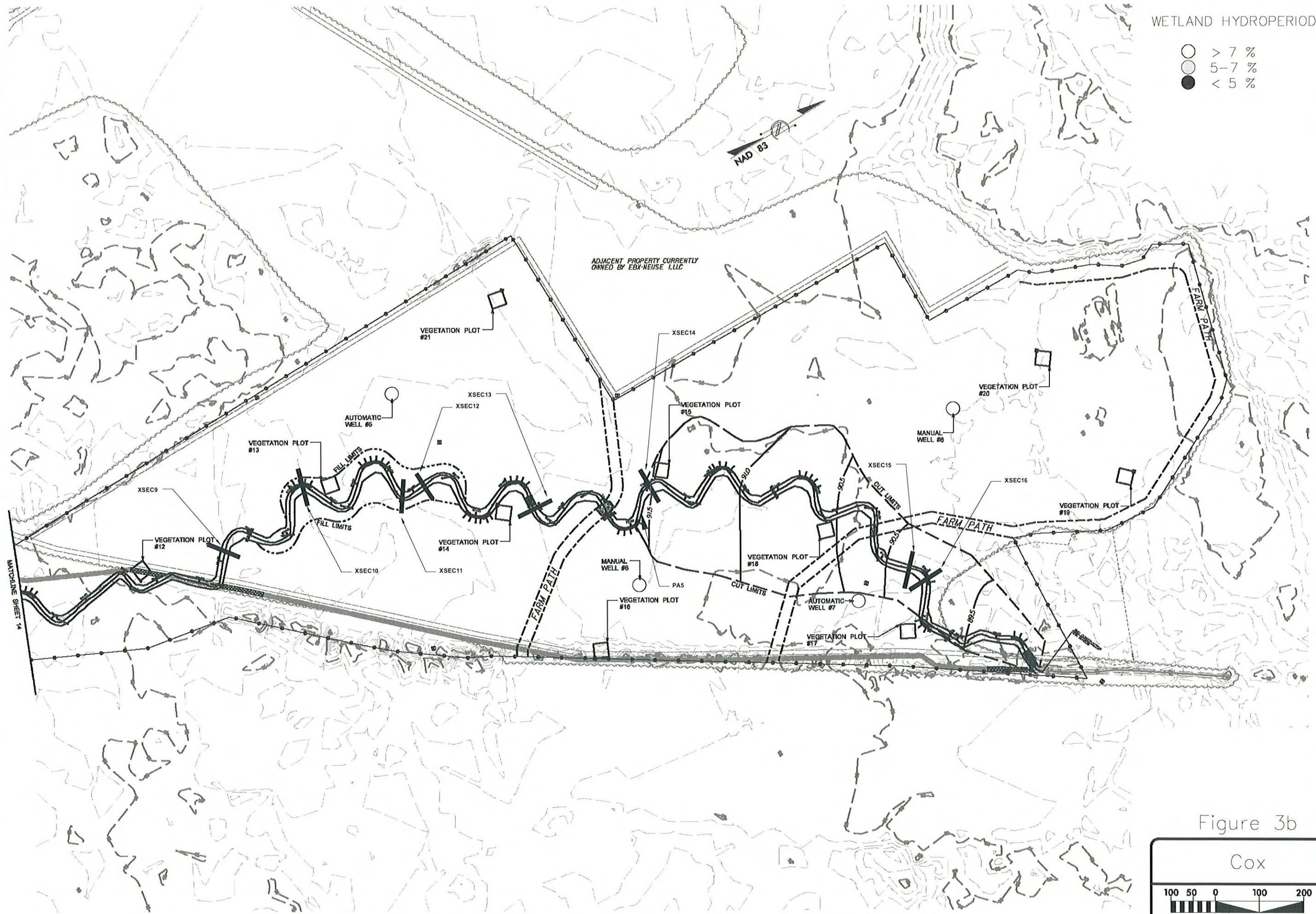
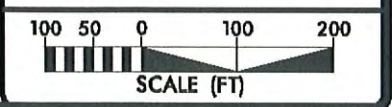


Figure 3b

Cox



2006 growing season, all automated loggers performed well and no periods of missing data were incurred.

Automatic groundwater gauges record water table elevations twice daily at 08:00 and 20:00. Infinities gauges employ pressure sensors that record water elevation above the bottom of the sensor (with atmospheric pressure compensation). Immediately adjacent to each automatic gauge is a manual calibration gauge. The calibration water table depth is recorded at monthly downloads. To determine wetland hydroperiods the automatically recorded data are compared to the calibration data to determine a standard correction factor between the calibration gauge and the automatic gauge for each location. The standard correction factor is applied to correct daily readings. The corrected daily readings are used to determine wetland hydroperiods.

Water table depths are recorded monthly in manual groundwater gauges. To calculate wetland hydroperiods interpolations are made between monthly readings by correlating twice daily automatic gauge readings. Each manual gauge is correlated to an automatic gauge based on proximity, landscape position, and the relationship of their groundwater depth readings (i.e. if their readings are separated by a consistent value). Once the appropriate automatic gauge has been selected a correction factor is calculated for each monthly gauge reading. A daily rate of change between monthly correction factors is calculated to determine the daily correction factor. The daily correction factor is then applied to the automatic gauge readings to calculate an estimated daily water table depth for the manual gauge. These daily readings are used to determine wetland hydroperiods.

Wetland hydroperiods are calculated from twice daily water table depth elevations. A hydroperiod is calculated if the water table is equal to or less than -12 inches below ground surface for at least 24 hours. If a gauge falls below -12 inches for two consecutive readings (24 hours) then the hydroperiod ends at the last reading within -12 inches. If a gauge falls below -12 inches for only one reading then maintains a reading above -12 inches for a minimum of 24 hours then the hydroperiod is calculated continuously. This methodology accounts for minor technical malfunctions experienced by the automatic gauges.

3.3 Results of Hydrology Monitoring

Site Data

The following hydroperiod statistics were calculated for each monitoring station during the growing season: 1) most consecutive days that the water table was within twelve inches of the soil surface; 2) cumulative number of days that the water table was within twelve inches of the soil surface; and 3) number of times that the water table rose to within twelve inches of the soil surface. The results of these calculations are presented in Table 2. Figure 4 provide charts of the water depth for each of the monitoring gauges on the site. Raw hydrograph data collected from the monitoring gauges are provided in Appendix C.

Year 1 monitoring has demonstrated that much of the site is functioning as designed, with varying degrees of wetness and saturation across the site. Gauges AW1, MW2, AW5, MW6, AW7, MW8, and MW9 exceeded the 7 percent hydrologic success criterion. Gauge AW10 recorded a hydroperiod of 6 percent of the growing season. Gauges AW3 and MW4 exhibited hydroperiods significantly below the success criterion. Reference gauge AW5 also recorded a very low hydroperiod, indicative of the variation in data to be expected across a wetland site.

Figure 4A
Cox 1-4 Groundwater Gauges
2006

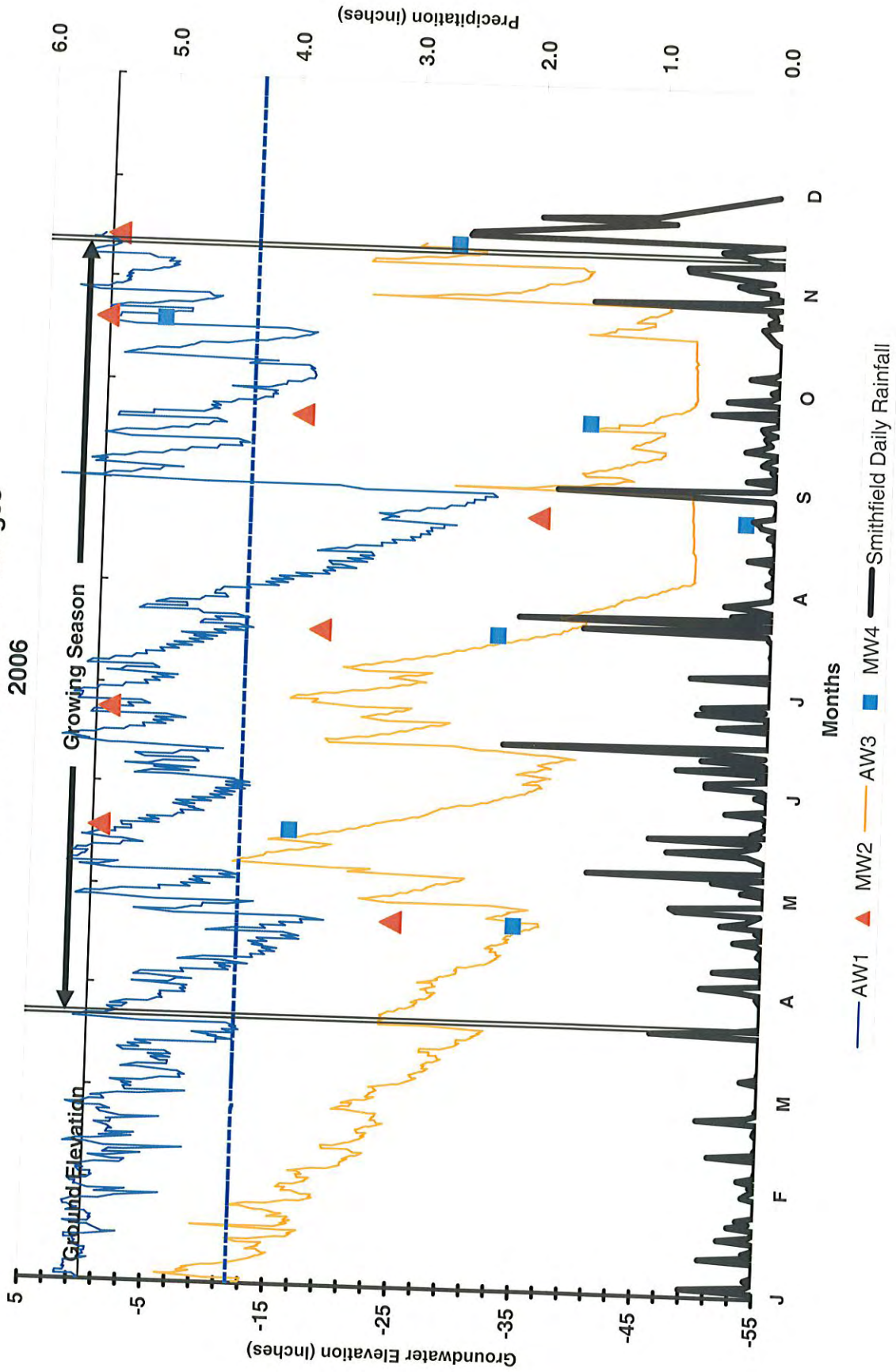


Figure 4B
Cox 5-8 Groundwater Gauges
2006

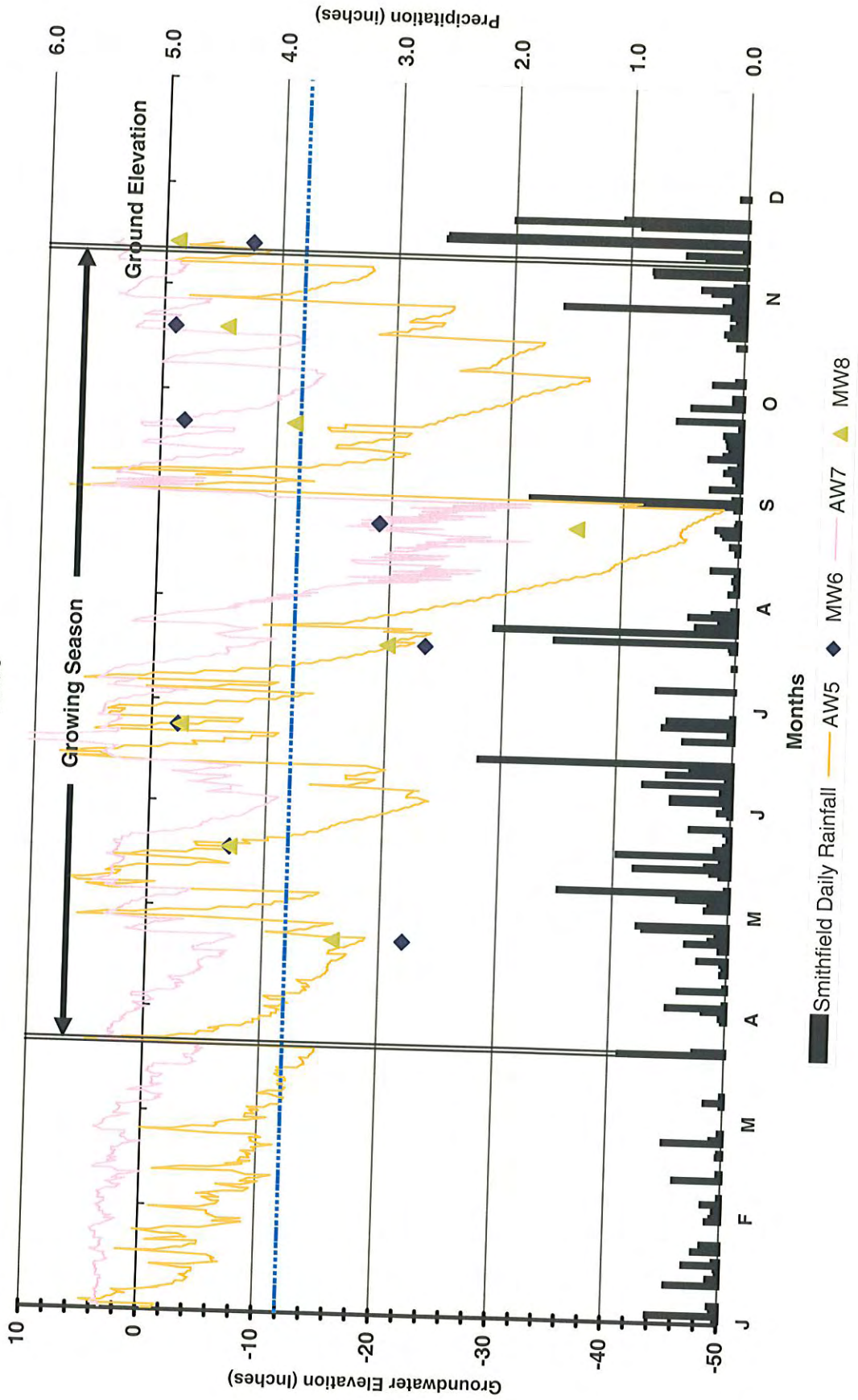


Figure 4C
Cox 9-10 Groundwater Gauges
2006

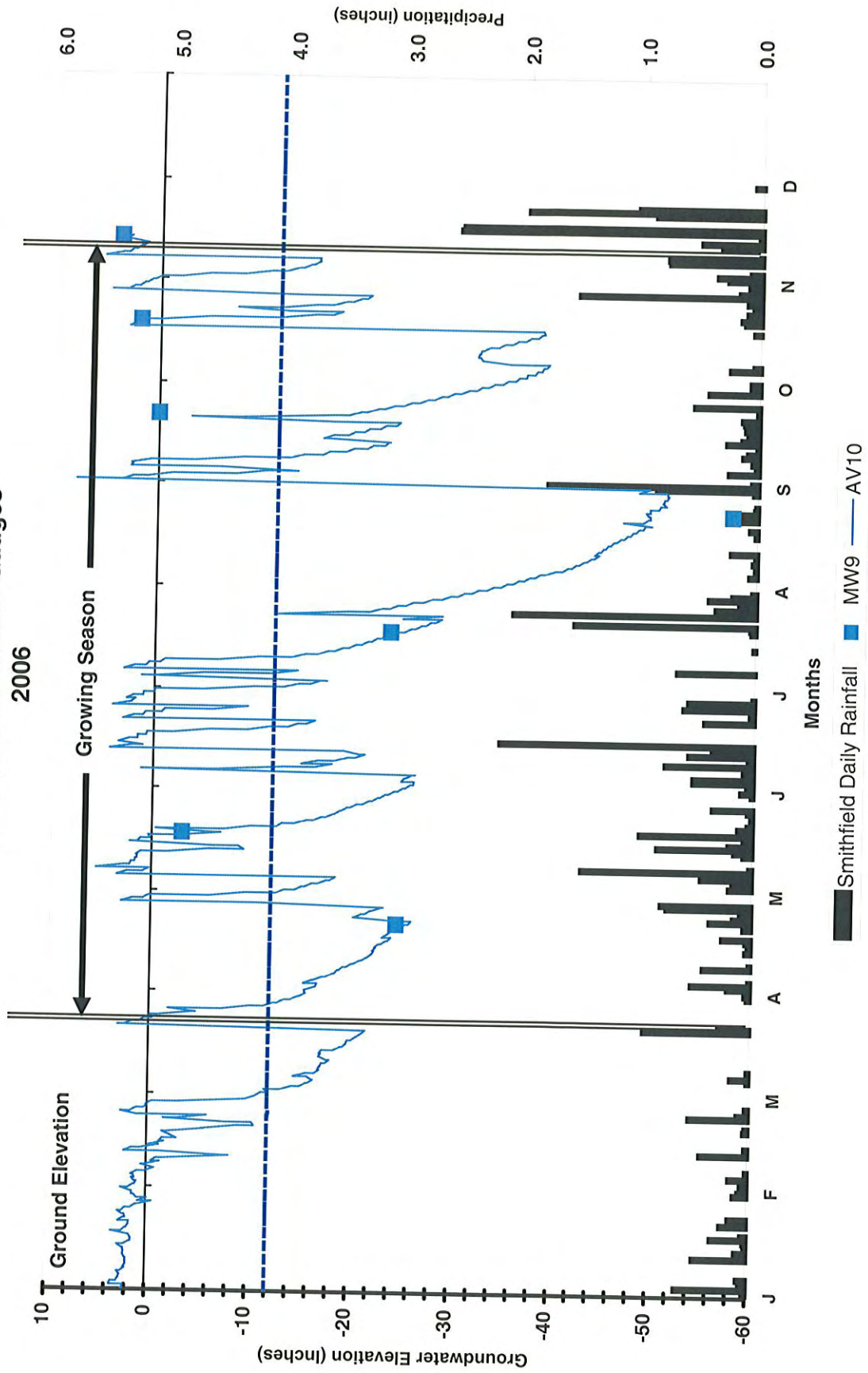


Table 2. Hydrologic Monitoring Results for 2006 (Year 1).

2006 Max Hydroperiod (Growing Season 17-Mar through 5-Nov, 232 days)					
Gauge	Consecutive		Cumulative		Occurrences
	Days	Percent of growing Season	Days	Percent of growing Season	
AW1	100	43	160	69	4
MW2	68	29	---	---	2
AW3	1	0	1	0	1
MW4	4	2	---	---	2
AW5	20	9	73	31	7
MW6	67	29	---	---	6
AW7	134	58	207	89	3
MW8	30	13	---	---	13
MW9	17	7	---	---	11
AW10	15	6	65	28	11

Reference Data

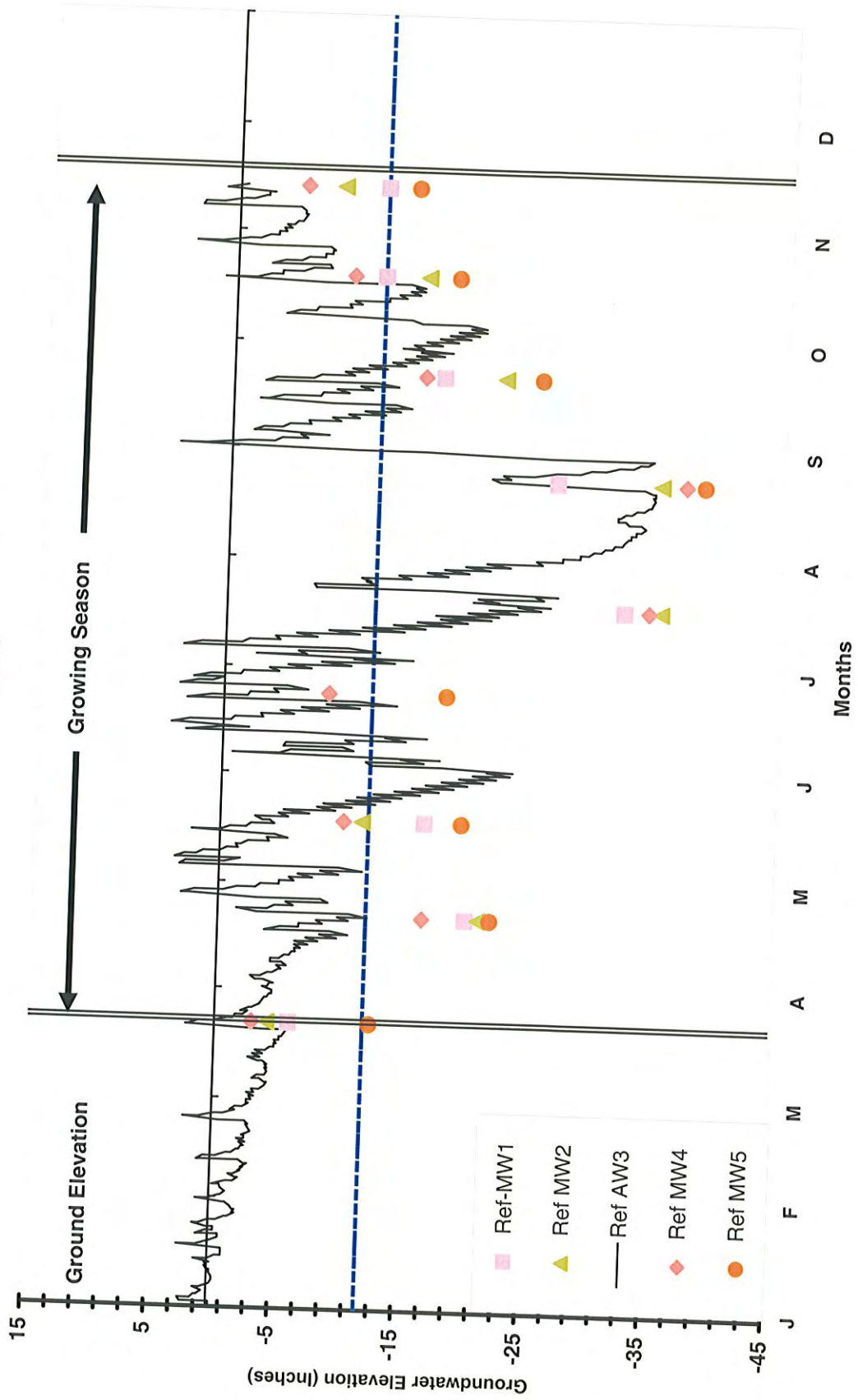
The approved Restoration Plan provides that if the rainfall data for any given year during the monitoring period is not normal, the reference wetland data can be used to determine if there is a positive correlation between the performance of the restoration site and the natural hydrology of the reference site.

The same hydroperiod statistics were calculated for each reference monitoring station during the growing season as were calculated for the site monitoring stations. The results of these calculations are presented in Table 3. Figure 5 shows the reference monitoring station data. Four of five reference gauges exceed the seven percent hydroperiod established as success criteria for the site. The reference gauges exhibit a range of hydroperiods similar to the site data, including one gauge location (Ref MW5) with a minimal wetland hydroperiod. The reference gauges are located in a riverine wetland upstream of the adjacent Westbrook mitigation site.

Table 3. Reference Hydrologic Monitoring Results for 2006 (Year 2).

2006 Max Hydroperiod (Growing Season 17-Mar through 5-Nov, 232 days)					
Gauge	Consecutive		Cumulative		Occurrences
	Days	Percent of growing Season	Days	Percent of growing Season	
Ref MW1	19	8	---	---	13
Ref MW2	19	8	---	---	10
Ref AW3	67	29	131	56	8
Ref MW4	20	9	---	---	13
Ref MW5	1	0	---	---	1

Figure 5
Cox Reference Groundwater Gauges
2006



Climate Data

Table 4 and Figure 6 is a comparison of the 2006 monthly rainfall to historical precipitation for Johnston County (NRCS WETS Tables). Observed precipitation data were collected from an automated weather station in Smithfield and an on-site manual rain gauge. On-site rainfall measurements were generally within normal limits for the growing season. January through March and August rainfall totals fell below normal. April, July, September, and October rainfall was within normal limits. And, May, June, and November rainfall exceeded normal limits.

Table 4. Johnston County Normal Rainfall and 2006 Observed Rainfall

Month	Average	Normal Limits		Smithfield Precipitation
		30 Percent	70 Percent	
January	4.24	3.37	5.14	2.19
February	3.66	2.51	4.46	1.39
March	4.57	3.54	5.54	1.35
April	3.24	1.98	4.01	3.66
May	4.16	2.83	4.9	5.15
June	4.14	2.57	4.6	6.83
July	5.13	3.48	6.34	5.49
August	4.58	3.05	5.66	1.78
September	4.54	2.34	5.97	4.44
October	3.16	1.78	3.93	2.90
November	2.95	1.93	3.76	12.40
December	3.05	2.06	3.8	NA
Annual Total	47.42	43.1	50.67	47.58

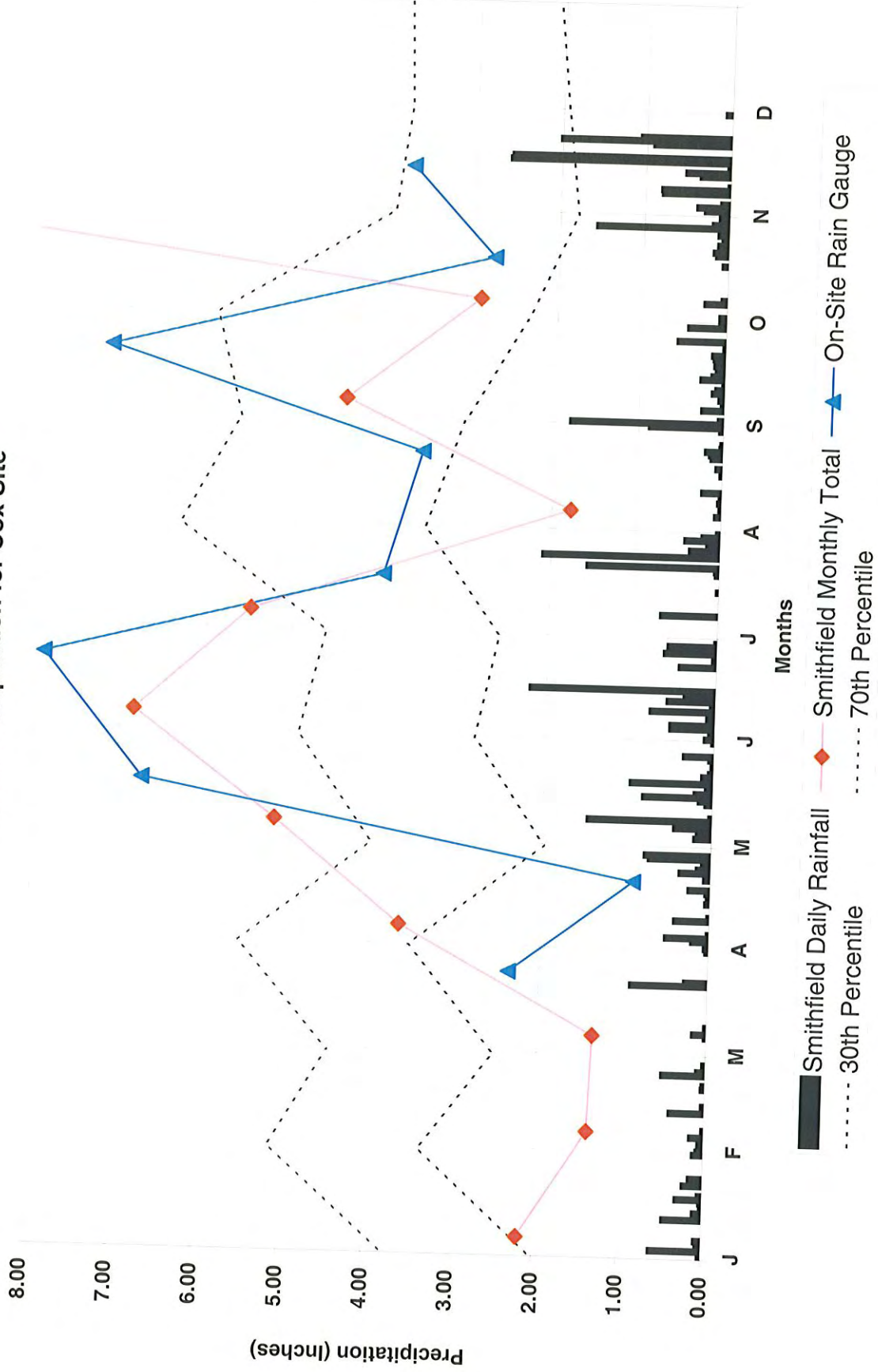
3.4 Hydrology Conclusions

Data collected from all the groundwater monitoring gauges on Cox Mitigation Site indicate that seven of ten hydrology monitoring stations recorded hydroperiods of at least 7 percent of the growing season. One of the remaining gauges (AW10) recorded a hydroperiod of 6 percent of the growing season. The remaining two gauges exhibited conditions drier than expected, but, were similar to the range of conditions experienced in the reference wetland.

Rainfall data indicates that the early 2006 growing season was unusually dry compared to normal rainfall totals. Of particular concern was the low rainfall during March. This is the first month of the growing season and is historically the period when the water table is closest to the surface for the longest continuous period.

Based on the generally positive results from the monitoring gauges and the low rainfall totals, it was concluded that most of the site is performing as designed. The southeastern portion of the site (AW3 and MW4) experienced drier than expected. These gauges are within an area where a field crown was removed during construction. It is possible that the site design/construction failed to lower the elevation of this field adequately to achieve wetland hydrology. Gauge AW10 missed success by only two days but is located in a particularly wet area. It is possible that the gauge has penetrated a restrictive horizon and subsurface water table readings are not representative of actual conditions. Particular attention will be paid to these gauges in subsequent monitoring seasons to determine if any corrective actions are required.

Figure 6
2006 Precipitation for Cox Site



4.0 VEGETATION

4.1 Vegetation success Criteria

The interim measure of vegetative success for the Cox Wetland Mitigation Plan is the survival of at least 320 3-year old planted trees per acre at the end of year 3 of the monitoring period. The final vegetative success criteria will be the survival of 260 5-year old planted trees per acre at the end of year five of the monitoring period.

Up to 20 percent of the site species composition may be comprised of volunteers. Remedial action may be required should these (i.e. loblolly pine, red maple, sweet gum, etc.) present a problem and exceed 20 percent composition.

4.2 Description of Species and Vegetation Monitoring

The following tree species were planted in the Wetland Restoration Area:

Table 5. Planted Tree Species

ID	Scientific Name	Common Name	FAC Status
1	<i>Quercus michauxii</i>	Swamp Chestnut Oak	FACW-
2	<i>Quercus phellos</i>	Coastal Willow Oak	FACW-
3	<i>Platanus occidentalis</i>	Sycamore	FACW-
4	<i>Celtis laevigata</i>	Sugar Berry	FACW
5	<i>Quercus lyrata</i>	Overcup Oak	OBL
6	<i>Nyssa sylvatica</i>	Blackgum	FAC
7	<i>Betula nigra</i>	River Birch	FACW
8	<i>Nyssa biflora</i>	Swamp Tupelo	OBL
9	<i>Taxodium distichum</i>	Bald Cypress	OBL
10	<i>Fraxinus pennsylvanica</i>	Green Ash	FACW

The following monitoring protocol was designed to predict vegetative survivability. Twenty-two plots were established on the Cox Wetland Mitigation Site, to monitor approximately 1.2 percent of the site. Fifteen of the plots are established next to the streambed to monitor the vegetation in the stream restoration buffer and riverine wetland zone. The other seven plots are randomly located to represent the non-riverine wetland zone on the site. The plots were randomly located within each zone and randomly oriented within the wetland restoration area.

Plot construction involved using metal fence posts at each of the four corners to clearly and permanently establish the area that was to be sampled. Then ropes were hung connecting all four corners to help in determining if trees close to the plot boundary were inside or outside of the plot. Trees right on the boundary and trees just outside of the boundary that appear to have greater than 50 percent of their canopy inside the boundary were counted inside the plot. A piece of white PVC pipe ten feet tall was placed over the metal post on one corner to facilitate visual location of site throughout the five-year monitoring period.

All of the planted stems inside the plot were flagged with orange flagging and marked with a three foot tall piece of half inch PVC to mark them as the planted stems (vs. volunteers) and to help in locating them in the future. Each stem was also tagged with a numbered aluminum tag.

4.3 Results of Vegetation Monitoring

The following tables present stem counts for each of the monitoring plot. Each planted tree species is identified across the top row, and each plot is identified down the left column. The numbers on the top row correlate to the ID column of the previous table. Trees are flagged in the field on an as need basis before the flags degrade. Flags are utilized, because they will not interfere with the growth of the tree. Volunteers are also flagged during this process.

Table 6. 2006 Vegetation Monitoring Plot Species Composition

Plot	1	2	3	4	5	6	7	8	9	10	Total	Stem/ac	Planted Stem/ac
1	3	1	3	0	2	0	5	0	1	0	15	600	720
2	0	0	3	0	5	0	6	0	0	2	16	640	760
3	2	4	7	0	1	0	0	0	5	0	19	760	800
4	2	1	3	0	6	0	3	0	2	0	17	680	680
5	4	0	1	2	1	0	6	3	0	0	17	680	680
6	1	1	10	0	0	0	3	0	1	0	16	640	640
7	3	1	1	0	0	0	10	0	3	0	18	720	720
8	1	1	1	0	0	0	10	0	0	3	16	640	680
9	7	0	7	0	0	0	3	0	0	0	17	680	720
10	6	4	5	0	1	0	1	0	1	0	18	720	720
11	2	2	0	0	2	4	3	0	1	4	18	720	720
12	0	0	0	0	0	2	6	1	1	9	19	760	720
13	8	1	1	0	1	0	3	0	2	1	17	680	680
14	0	0	0	0	1	1	14	0	0	2	18	720	720
15	2	0	1	0	5	5	3	1	0	0	17	680	680
16	1	0	0	4	3	0	4	0	0	1	13	520	640
17	7	0	9	0	0	0	0	0	0	0	16	640	640
18	1	0	3	0	3	3	4	0	2	1	17	680	680
19	2	0	6	0	2	0	1	5	0	0	16	640	640
20	3	0	1	6	1	0	3	1	0	0	15	600	680
21	3	0	3	5	0	0	6	3	0	0	20	800	800
22	2	0	4	2	1	0	6	1	0	0	16	640	680

Average Stems/Acre: 675

Range of Stems/Acre: 520-800

Volunteer species will also be monitored throughout the five-year monitoring period. Below is a table of the most commonly found woody volunteer species.

Table 7. Volunteer tree Species

ID	Scientific Name	Common Name	FAC Status
A	<i>Liquidambar styraciflua</i>	Sweetgum	FAC+
B	<i>Acer rubrum</i>	Red Maple	FAC
C	<i>Pinus taeda</i>	Loblolly Pine	FAC

Volunteer woody species were observed in very high quantities in vegetation Plots 10 and 11, but were deemed too small to tally. If these trees persist into the next growing season, they will be flagged and added to the overall stems per acre assessment of the site. Sweetgum (*Liquidambar styraciflua*) is the most common volunteer, though Red Maple (*Acer rubrum*) and Loblolly Pine (*Pinus taeda*) were also observed.

4.4 General Vegetation Observations

After construction of the mitigation site, a permanent ground cover seed mixture of Virginia wild rye (*Elymus virginicus*), switch grass (*Panicum virgatum*), and fox sedge (*Carex vulpinoidea*) was broadcast on the site at a rate of 10 pounds per acre. These species are present on the site. Hydrophytic herbaceous vegetation, including rush (*Juncus effusus*), spike-rush (*Eleocharis obtusa*), Boxseed (*Ludwigia* sp.), and sedge (*Carex* sp.), were observed across the site, particularly in areas of periodic inundation. The presence of these herbaceous wetland plants helps to confirm the presence of wetland hydrology on the site.

There are several weedy species occurring on the site, though none seem to be posing any problems for the woody or herbaceous hydrophytic vegetation. The weedy species are mostly annuals and seem to pose very little threat to survivability on site. Commonly seen weeds include ragweed (*Ambrosia artemisiifolia*) and wild dill (*Foeniculum vulgare*). Any threatening weedy vegetation found in the future will be documented and discussed in triannual reports.

4.5 Vegetation Conclusions

The site was planted in costal plain small stream swamp and wet hardwood forest species in January 2006. There were twenty-two vegetation-monitoring plots established throughout the planting areas. The data reflects that the overall site is on trajectory for meeting the minimum success interim criteria of 320 trees per acre by the end of year three and the final success criteria of 260 trees per acre by the end of year five. Table 8 provides a summary of potential problem areas observed.

Table 8. Vegetation Problem Areas

Location	Problem	Area Affected
Vegetation plot 10	Invasive volunteer woody seedlings need to be mowed	2 acres located beneath standing mature trees
Vegetation plot 11	Invasive volunteer wood seedlings need to be mowed	2 acres located beneath standing mature trees

5.0 STREAM MONITORING

5.1 Success Criteria

As stated in the approved Mitigation Plan, the stream restoration success criteria for the site include the following:

- Bankfull Events: Two bankfull flow events must be documented within the five-year monitoring

- period.
- Cross-sections: There should be little change in as-built cross-sections. Cross-sections shall be classified using the Rosgen stream classification method and all monitored cross-sections should fall within the quantitative parameters defined for "E" or "C" type channels.
 - Longitudinal Profiles: The longitudinal profiles should show that the bedform features are remaining stable, e.g. they are not aggrading or degrading. Bedforms observed should be consistent with those observed in "E" and "C" type channels.
 - Photo Reference Stations: Photographs will be used to subjectively evaluate channel aggradation or degradation, bank erosion, success of riparian vegetation and effectiveness of erosion control measures.

5.2 Description of Stream Monitoring

To document the stated success criteria, the following monitoring program was instituted following construction completion on the Cox Site:

Bankfull Events: A crest gauge was installed on the site to document bankfull events (Figure 3). The gauge is checked monthly, and records the highest out-of-bank flow event that occurred during the past month.

Cross-sections: Two permanent cross-sections were installed per 1,000 linear feet of stream restoration work, with one of the locations being a riffle cross-section and one location being a pool cross-section. A total of 16 permanent cross-sections were established across the mitigation site. Each cross-section was marked on both banks with permanent pins to establish the exact transect used. Permanent cross-section pins were surveyed and located relative to a common benchmark to facilitate easy comparison of year-to-year data. The annual cross-section surveys include points measured at all breaks in slope, including top of bank, bankfull, inner berm, edge of water, and thalweg. Riffle cross-sections are classified using the Rosgen stream classification system. Permanent cross-sections for 2006 (Year 1) were surveyed in September 2006.

Longitudinal Profiles: A longitudinal profile of approximately 3,000 feet was surveyed along the restoration reach. The longitudinal survey will take place in Years 3 and 5 as well. Measurements include thalweg, water surface, bankfull, and top of low bank. Each of these measurements is taken at the head of each feature, e.g. riffle, run, pool, and glide, and the max pool depth. A common benchmark will be used each year to facilitate comparison of year-to-year data. The longitudinal survey for 2006 (Year 1) was conducted during August 2006.

Photo Reference Stations: Photographs are used to visually document restoration success. Reference stations are marked with wooden stakes and Global Positioning Satellite (GPS) coordinates have been determined for each location. Reference photos are taken at each permanent cross-section from both streambanks. The survey tape is centered in the photographs of the bank, and the water line is located in the lower edge of the frame with as much of the bank as possible included in each photo. In-stream structures (e.g., rock vanes, cross vanes, and constructed riffles) are also photographed. Photo reference stations will be photographed at least once per year for at least 5 years following construction.

5.3 Results of Stream Monitoring

One crest gages was installed near the downstream end of the restoration reach (Figure 3) following site construction. During 2006, bankfull events on the site were documented during at least two site visits. The largest stream flow documented by the downstream crest gauge was a flow that occurred during the month of April and was approximately 0.3 feet above the bankfull stage at the crest gauge. Based on observations of ponded water, debris lines, and deposited sediment on the floodplain, the

bankfull event spread over much of the restored wetland areas adjacent to the stream. Crest gauge data are provided in Appendix C.

Year 2 cross-section monitoring data for stream stability were collected during August 2006 and compared to baseline data collected in early 2006 (Table 4 and Appendix A). A longitudinal profile survey was conducted along the restoration reach from STA 38+52 (XS 5) to STA 68+92 (XS 13). The longitudinal profile information documents the elevations and locations of streambed features and in-stream grade control structures (Figure 7). The profile and cross-sections show that there has been very little adjustment to stream profile or dimension since construction. Several pool cross-sections indicate the development of point bar features, which is expected. All monitored cross-sections fell within the quantitative parameters defined for "E" or "C" type channels. Profile and crest gauge data are provided in Appendix B

In-stream structures installed within the restored stream included constructed riffles, log vanes, log weirs, and root wads. Visual observations of structures throughout the past growing season have indicated that nearly all structures are functioning as designed. Log weirs placed in riffle areas have maintained riffle elevations and provided a downstream scour hole that provides habitat. Bank scour downstream of the log weirs was minimized through the use of notches in the logs that keep the stream flow centered. The constructed riffles were all installed on the upper end of the site where slopes are significantly higher than the lower end. Some minor areas of localized erosion and piping of water around structures has been observed and will be monitored over the coming years to determine whether maintenance action is needed. Table 9 provides a summary of potential problem areas observed.

Table 9. Stream Problem Areas

Station	Feature	Problem
51+70	Left Bank	Localized erosion
52+70	Left Bank	Localized erosion
74+80	Bar Formation	Central bar in channel and bank erosion

All potential problem areas are minor and localized. No corrective actions are recommended at this time as the channel appears to be moving toward stability.

In late summer 2006 several minor repairs were made to log weir structures between stations 17+00 and 34+00. These repairs included using class A&B stone to seal the area below the log weir and regrading/rematting the pools below the log weirs. Two log weirs were replaced with constructed riffles. One set of rootwads (station 21+00) was re-backfilled to prevent erosion.

Photographs have been taken throughout the monitored season to document the evolution of the restored stream channel (Appendix D). The most observable change to the stream during 2006 has been the prevalence of native hydrophytic vegetation along the restored stream banks. Herbaceous vegetation is consistently present and locally dense along the restored stream. Pools have maintained a variety of depths and habitat qualities, depending on the location and type of scour features (logs, root wads, transplants, etc.).

6.0 OVERALL CONCLUSIONS AND RECOMMENDATIONS

- First year hydrologic monitoring has shown that suitable minimum wetland hydrology criteria have been achieved on most of the site. Of the 10 hydrology monitoring gauges, seven recorded consecutive hydroperiods for at least 7 percent of the growing season. One of the

remaining gauges exhibited a hydroperiod greater than 5 percent of the growing season. The remaining two gauges exhibited conditions drier than expected, but, were within the range of conditions of the reference wetland.

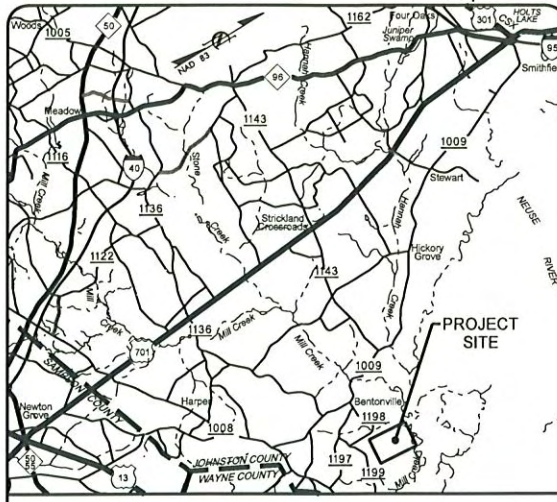
- The restored stream channel has remained stable and is providing the intended habitat and hydrologic functions. All monitoring cross-sections for 2006 showed very little adjustment in stream dimension.
- Vegetation monitoring has determined the average number of stems per acre on site to be 675, which is a survival rate of greater than 95 percent based on the initial planting count of 710 stems per acre. We feel that vegetation survival will remain acceptable on site and vegetative success criteria will be met.
- The biggest concern is the amount of undesirable volunteers in Plots 10 and 11. These areas are overpopulated due to the parent trees being directly above and in such close proximity as this is the narrowest point of the site. Removal of invasive species will be required in 2007
- All monitoring will continue through 2010.

APPENDIX A

As-Built Survey

COX SITE

PROJECT: 0214R



VICINITY MAP

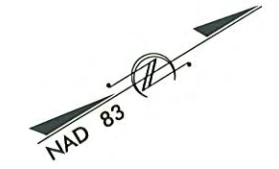
EBX NEUSE - I, LLC COX SITE

JOHNSTON COUNTY

**LOCATION: WEST OF GOLDSBORO
OFF SR 1198 WESTBROOK LOWGROUNDS ROAD**

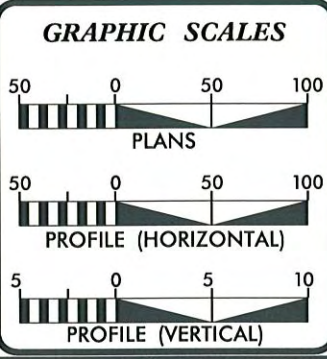
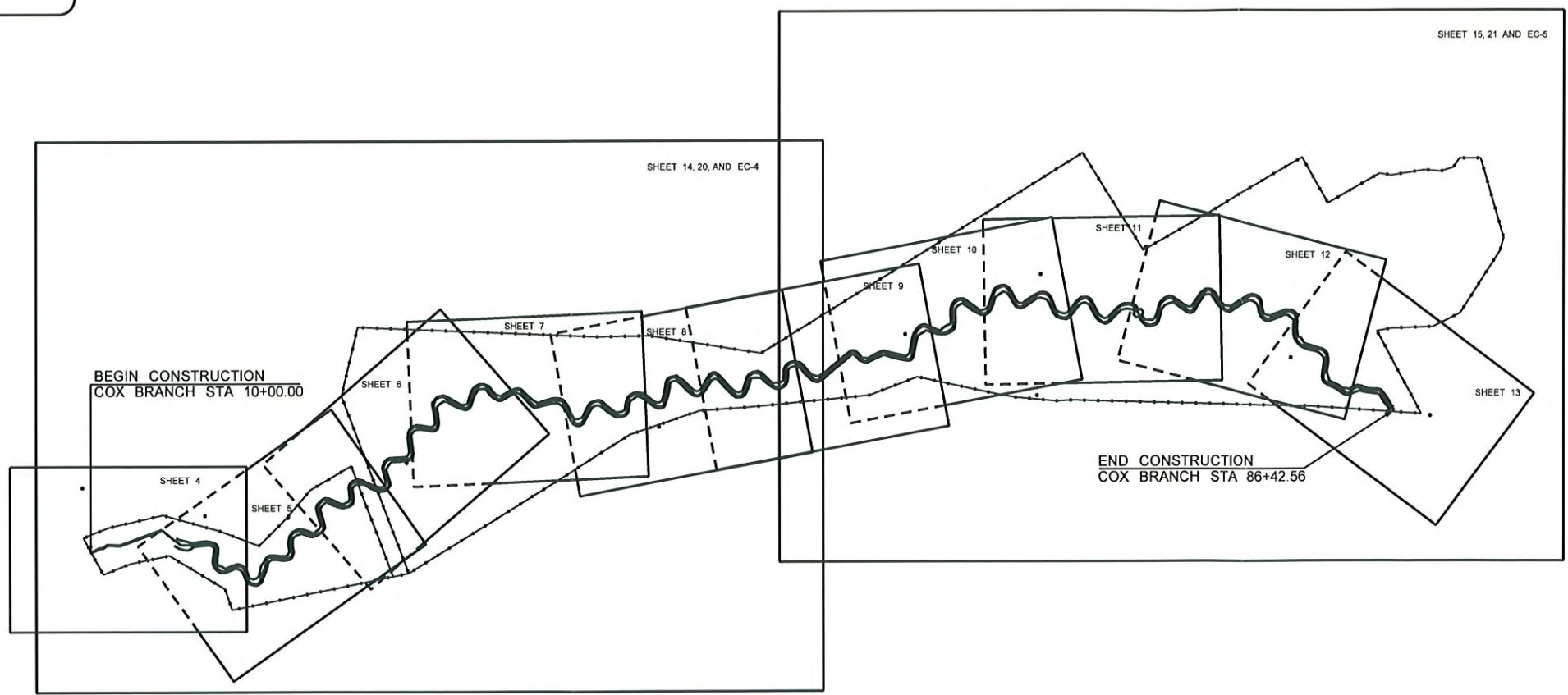
TYPE OF WORK: AS-BUILT PLANS

STATE	BUCK PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	0214R	1	20
NO.	DATE	CHECKED BY	APPROVED BY
1	01/23/06	JOHN HUTTON	KEVIN TWEEDY



INDEX OF SHEETS

- 1 TITLE SHEET
- 1-A STREAM CONVENTIONAL SYMBOLS
GENERAL NOTES, STANDARD SPECIFICATIONS, AND VEGETATION SELECTION CONVENTIONAL SYMBOLS
- 1-B TYPICAL POOL AND RIFFLE CROSS SECTIONS, STRUCTURE DETAILS
- 2 TO 2-B AS-BUILT PLAN VIEWS
- 4 TO 13 GRADING PLAN AND MONITORING OVERVIEW
- 14 & 15 WETLAND OVERVIEW
- 16 & 17



PROJECT SUMMARY

EXISTING STREAM LENGTH	= 5944 FEET
AS-BUILT STREAM RESTORATION LENGTH	= 7357 FEET
AS-BUILT STREAM ENHANCEMENT LENGTH	= 285 FEET
EXISTING WETLAND ACREAGE	= 0.8 ACRES
AS-BUILT WETLAND ACREAGE	= 26.8 ACRES
RIVERINE WETLAND	= 16.9 ACRES
AS-BUILT WETLAND ACREAGE NON-RIVERINE WETLAND	= 10.9 ACRES

PREPARED FOR THE OFFICE OF:
EBX NEUSE - I, LLC

2530 MERIDIAN PARKWAY, SUITE 200
DURHAM, NORTH CAROLINA 27713

EBX CONTACT:
THOMAS L. RINKER
PROJECT MANAGER

PREPARED IN THE OFFICE OF:

DECEMBER '05
COMPLETION DATE:

KEVIN TWEEDY
PROJECT ENGINEER

JOHN HUTTON
PROJECT MANAGER

PROJECT ENGINEER






























THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY:

KEVIN L. TWEEDY
027337
APRIL 4, 2006

THIS MEDIA SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT

SIGNATURE: _____ P.E.


STREAM CONVENTIONAL SYMBOLS
SUPERCEDES SHEET 1B

	ROCK J-HOOK		SAFETY FENCE
	ROCK VANE		TAPE FENCE
	OUTLET PROTECTION		100 YEAR FLOOD PLAIN
	ROCK CROSS VANE		CONSERVATION EASEMENT
	DOUBLE DROP ROCK CROSS VANE		EXISTING MAJOR CONTOUR
	SINGLE WING DEFLECTOR		EXISTING MINOR CONTOUR
	DOUBLE WING DEFLECTOR		FOOT BRIDGE
	TEMPORARY SILT CHECK		TEMPORARY STREAM CROSSING
	ROOT WAD		PERMANENT STREAM CROSSING
	LOG J-HOOK		TRANSPLANTED VEGETATION
	LOG VANE		TREE REMOVAL
	LOG WEIR		TREE PROTECTION
	LOG CROSS VANE		TRANSPLANTS
	CONSTRUCTED RIFFLE		
	BOULDER CLUSTER		
	ROCK STEP POOL		

**NOTE: ALL ITEMS ABOVE MAY NOT BE USED ON THIS PROJECT

GENERAL NOTES

1. THE CONTRACTOR IS REQUIRED TO INSTALL INSTREAM STRUCTURES USING A TRACK HOE WITH A HYDRAULIC THUMB OF SUFFICIENT SIZE TO MOVE BOULDERS 2FT X 2FT X 3FT (APPROXIMATELY 0.7 TONS).
2. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE, AT A MINIMUM, TWO OPERATORS AT ALL TIMES DURING CONSTRUCTION OF THE NEW STREAM CHANNEL. IN GENERAL, ONE OPERATOR WILL CUT THE NEW CHANNEL WITH A TRACK HOE, WHILE THE OTHER OPERATOR FOLLOWS AND INSTALLS INSTREAM STRUCTURES, BANK STABILIZATION PRACTICES, AND TRANSPLANTS. DURING CONSTRUCTION OF THE NEW STREAM CHANNEL, THE CONTRACTOR WILL BE REQUIRED TO HAVE TWO TRACK HOES AND ONE LOADER ON-SITE.
3. CONSTRUCTION IS SCHEDULED TO BEGIN JUNE 2005.

PROJECT REFERENCE NO. 0214R	SHEET NO. 1-A
PROJECT ENGINEER	
THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY:	
KEVIN L. TWEEDY 027337 AUGUST 26, 2005	
THIS MEDIA SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT	
	
8000 Regency Parkway Suite 200 Cary, North Carolina 27511 Phone: 919-463-5483 Fax: 919-463-5490	

STANDARD SPECIFICATIONS

*EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL
DECEMBER 1993*

- 6.60 TEMPORARY SEDIMENT TRAP
- 6.06 CONSTRUCTION ACCESS
- 6.62 SILT FENCE
- 6.70 TEMPORARY (FORD) STREAM CROSSING

VEGETATION SELECTION

STREAMBANK AND RIVERINE WETLAND VEGETATION SELECTION LIST

BARE ROOT VEGETATION

NOTE: BARE ROOT VEGETATION SHALL BE INSTALLED RANDOMLY 6 TO 8 FEET APART FROM THE TOP OF THE STREAMBANK OUT TO THE EDGE OF RIVERINE WETLAND REVEGETATION LIMITS.

COMMON NAME	SCIENTIFIC NAME	Percentage of Total	Total Number
Blackgum	<i>Nyssa sylvatica</i>	10	2900
Green ash	<i>Fraxinus pennsylvanica</i>	10	2900
Swamp Chestnut Oak	<i>Quercus michauxii</i>	15	4350
Overcup Oak	<i>Quercus lyrata</i>	10	2900
Willow Oak	<i>Quercus phellos</i>	5	1450
Sycamore	<i>Platanus occidentalis</i>	20	5800
River Birch	<i>Betula nigra</i>	20	5800
Bald Cypress	<i>Taxodium distichum</i>	10	2900
TOTAL		100	29000

LIVE STAKING

NOTE: LIVE STAKES SHALL BE INSTALLED RANDOMLY 2 TO 3 FEET APART ALONG THE STREAMBANKS FROM THE TOE OF THE BANK TO THE TOP OF BANK.

COMMON NAME	SCIENTIFIC NAME	Percentage of Total	Total Number
ELDERBERRY	<i>SAMBUCUS CANADENSIS</i>	42	2500
BUTTONBUSH	<i>CEPHALANTHUS OCCIDENTALIS</i>	50	3000
BLACK WILLOW	<i>SALIX NIGRA</i>	8	500
TOTAL		100	6000

TEMPORARY SEED MIX

NOTE: ALL DISTURBED AREAS WILL BE STABILIZED USING TEMPORARY SEED MIX

COMMON NAME	RATE	DATES
ANNUAL RYE (COOL SEASON)	130 LBS/ACRE	SEPTEMBER TO MARCH
MILLET (WARM SEASON)	45 LBS/ACRE	APRIL TO AUGUST

NON-RIVERINE WETLAND VEGETATION SELECTION LIST

BARE ROOT VEGETATION

NOTE: BARE ROOT VEGETATION SHALL BE INSTALLED RANDOMLY 6 TO 8 FEET APART FROM THE TOP OF THE STREAMBANK OUT TO THE EDGE OF RIVERINE WETLAND REVEGETATION LIMITS.

COMMON NAME	SCIENTIFIC NAME	Percentage of Total	Total Number
Swamp Tupelo	<i>Nyssa sylvatica var. biflora</i>	15	1800
Sycamore	<i>Platanus occidentalis</i>	5	600
Swamp Chestnut Oak	<i>Quercus michauxii</i>	10	1200
Overcup Oak	<i>Quercus lyrata</i>	10	1200
Willow Oak	<i>Quercus phellos</i>	5	600
Sugarberry	<i>Celtis laevigata</i>	20	2400
River Birch	<i>Betula nigra</i>	20	2400
Green Ash	<i>Fraxinus pennsylvanica</i>	5	600
Bald Cypress	<i>Taxodium distichum</i>	10	1200
TOTAL		100	12000

PERMANENT SEED MIX FOR ALL PLANTING ZONES

NOTE: WETLAND SEED MIX SHALL BE SEEDED AT A RATE OF 15 LBS PER ACRE THROUGHOUT PLANTING ZONES

COMMON NAME	SCIENTIFIC NAME	Percentage of Total	Rate (lbs per acre)
Redtop	<i>Agrostis alba</i>	10	1.5
Virginia Wildrye	<i>Elymus virginicus</i>	15	2.25
Switch Grass	<i>Panicum virgatum</i>	15	2.25
Eastern Gamma Grass	<i>Tripsicum dactyloides</i>	5	0.75
Pennsylvania Smartweed	<i>Polygonum pennsylvanicum</i>	5	0.75
Little Blue Stem	<i>Schizachyrium scoparium</i>	5	0.75
Soft Rush	<i>Juncus effusus</i>	5	0.75
Beggars Tick	<i>Bidens frondosa (or aristosa)</i>	10	1.5
Lance-Leaved Tick Seed	<i>Coreopsis lanceolata</i>	10	1.5
Tioga Deer Tongue	<i>Panicum clandestinum</i>	10	1.5
Big Blue Stem	<i>Andropogon gerardii</i>	5	0.75
Indian Grass	<i>Sorghastrum nutans</i>	5	0.75

2/26/03

4/18/2006
r:\0214R\Design\0214R_EBX_PSH_1A.dgn

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL SYMBOLS

*S.U.E = SUBSURFACE UTILITY ENGINEER

ROADS & RELATED ITEMS

Edge of Pavement	---
Curb	---
Prop. Slope Stakes Cut	---
Prop. Slope Stakes Fill	---
Prop. Woven Wire Fence	○—○
Prop. Chain Link Fence	□—□
Prop. Barbed Wire Fence	◇—◇
Prop. Wheelchair Ramp	WCRP
Curb Cut for Future Wheelchair Ramp	CCFR
Exist. Guardrail	—+—
Prop. Guardrail	—+—
Equality Symbol	⊕
Pavement Removal	XXXXXX

RIGHT OF WAY

Baseline Control Point	◆
Existing Right of Way Marker	△
Exist. Right of Way Line w/Marker	—△—
Prop. Right of Way Line with Proposed R/W Marker (Iron Pin & Cap)	—▲—
Prop. Right of Way Line with Proposed (Concrete or Granite) R/W Marker	—●—
Exist. Control of Access Line	—○—
Prop. Control of Access Line	—●—
Exist. Easement Line	---E---
Prop. Temp. Construction Easement Line	---E---
Prop. Temp. Drainage Easement Line	---TOE---
Prop. Perm. Drainage Easement Line	---PDE---

HYDROLOGY

Stream or Body of Water	—
River Basin Buffer	---RBB---
Flow Arrow	→
Disappearing Stream	—>—
Spring	○
Swamp Marsh	—*
Shoreline	---
Falls, Rapids	—+—
Prop Lateral, Tail, Head Ditches	—+—

STRUCTURES

MAJOR	
Bridge, Tunnel, or Box Culvert	—CONC—
Bridge Wing Wall, Head Wall and End Wall	—CONC WW—

MINOR	
Head & End Wall	—CONC HW—
Pipe Culvert	—=—=—=—
Footbridge	—+—+—
Drainage Boxes	□ CB
Paved Ditch Gutter	—+—

UTILITIES

Exist. Pole	•
Exist. Power Pole	•
Prop. Power Pole	•
Exist. Telephone Pole	•
Prop. Telephone Pole	•
Exist. Joint Use Pole	•
Prop. Joint Use Pole	•
Telephone Pedestal	⊕
UG Telephone Cable Hand Hold	⊕
Cable TV Pedestal	⊕
UG TV Cable Hand Hold	⊕
UG Power Cable Hand Hold	⊕
Hydrant	⊕
Satellite Dish	⊕
Exist. Water Valve	⊕
Sewer Clean Out	⊕
Power Manhole	⊕
Telephone Booth	⊕
Cellular Telephone Tower	⊕
Water Manhole	⊕
Light Pole	⊕
H-Frame Pole	⊕
Power Line Tower	⊕
Pole with Base	⊕
Gas Valve	⊕
Gas Meter	⊕
Telephone Manhole	⊕
Power Transformer	⊕
Sanitary Sewer Manhole	⊕
Storm Sewer Manhole	⊕
Tank; Water, Gas, Oil	⊕
Water Tank With Legs	⊕
Traffic Signal Junction Box	⊕
Fiber Optic Splice Box	⊕
Television or Radio Tower	⊕
Utility Power Line Connects to Traffic Signal Lines Cut Into the Pavement	—TS—TS—

Recorded Water Line	—W—W—
Designated Water Line (S.U.E.*)	—W—W—
Sanitary Sewer	—SS—SS—
Recorded Sanitary Sewer Force Main	—FSS—FSS—
Designated Sanitary Sewer Force Main(S.U.E.*)	—FSS—FSS—
Recorded Gas Line	—G—G—
Designated Gas Line (S.U.E.*)	—G—G—
Storm Sewer	—S—S—
Recorded Power Line	—P—P—
Designated Power Line (S.U.E.*)	—P—P—
Recorded Telephone Cable	—T—T—
Designated Telephone Cable (S.U.E.*)	—T—T—
Recorded U/G Telephone Conduit	—TC—TC—
Designated U/G Telephone Conduit (S.U.E.*)	—TC—TC—
Unknown Utility (S.U.E.*)	—UTUL—UTUL—
Recorded Television Cable	—TV—TV—
Designated Television Cable (S.U.E.*)	—TV—TV—
Recorded Fiber Optics Cable	—FO—FO—
Designated Fiber Optics Cable (S.U.E.*)	—FO—FO—
Exist. Water Meter	⊕
UG Test Hole (S.U.E.*)	⊕
Abandoned According to U/G Record	ATTUR
End of Information	E.O.I.

BOUNDARIES & PROPERTIES

State Line	—
County Line	—
Township Line	—
City Line	—
Reservation Line	—
Property Line	—
Property Line Symbol	PL
Exist. Iron Pin	⊕
Property Corner	+
Property Monument	⊕
Property Number	123
Parcel Number	6
Fence Line	—X—X—X—
Existing Wetland Boundaries	—WW & ISBW—
High Quality Wetland Boundary	—HO WLB—
Medium Quality Wetland Boundaries	—MO WLB—
Low Quality Wetland Boundaries	—LO WLB—
Proposed Wetland Boundaries	—WLB—
Existing Endangered Animal Boundaries	—EAB—
Existing Endangered Plant Boundaries	—EPB—

BUILDINGS & OTHER CULTURE

Buildings	—
Foundations	—
Area Outline	—
Gate	—
Gas Pump Vent or U/G Tank Cap	—
Church	—
School	—
Park	—
Cemetery	—
Dam	—
Sign	—
Well	—
Small Mine	—
Swimming Pool	—

TOPOGRAPHY

Loose Surface	—
Hard Surface	—
Change in Road Surface	—
Curb	—
Right of Way Symbol	R/W
Guard Post	⊕ GP
Paved Walk	—
Bridge	—
Box Culvert or Tunnel	—
Ferry	—
Culvert	—
Footbridge	—
Trail, Footpath	—
Light House	—

VEGETATION

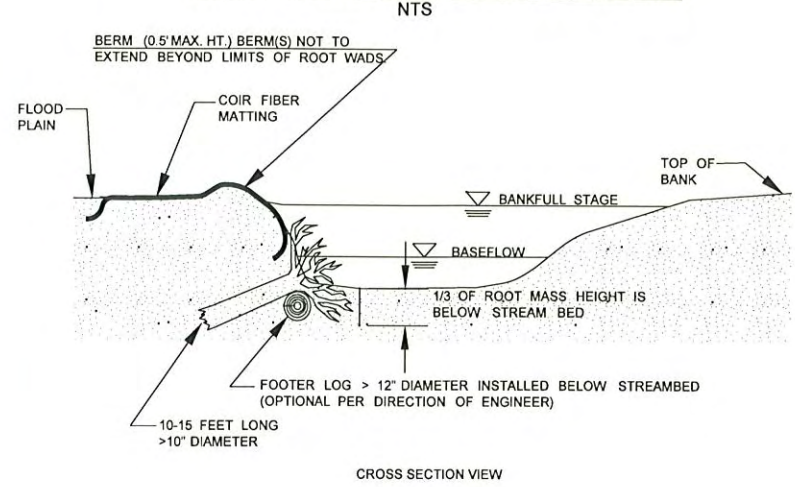
Single Tree	—
Single Shrub	—
Hedge	—
Woods Line	—
Orchard	—
Vineyard	—

RAILROADS

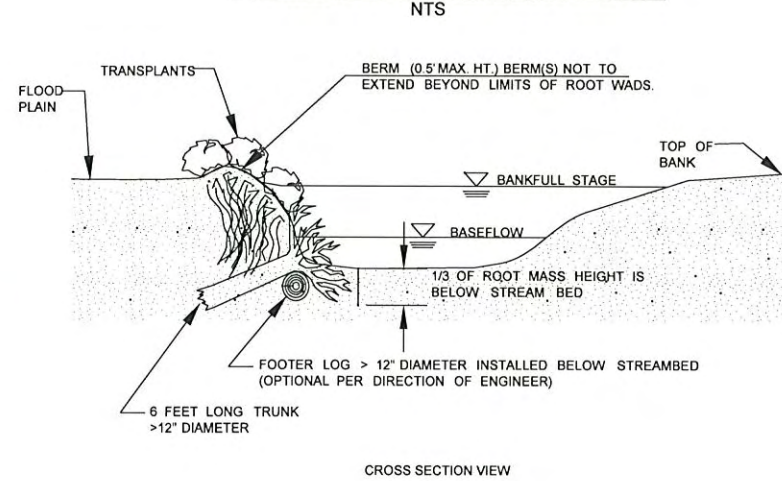
Standard Gauge	—
RR Signal Milepost	—
Switch	—

4/18/2005 P:\0214R\Design\Plans\0214R_EBX_PSH_1B.dgn

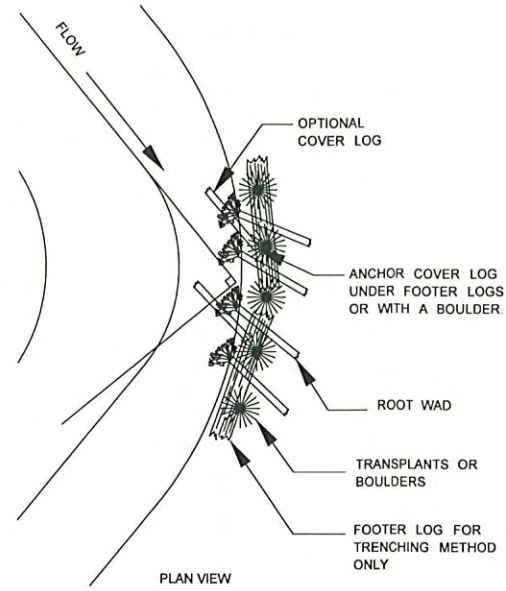
ROOT WADS WITHOUT TRANSPLANTS



ROOT WADS WITH TRANSPLANTS



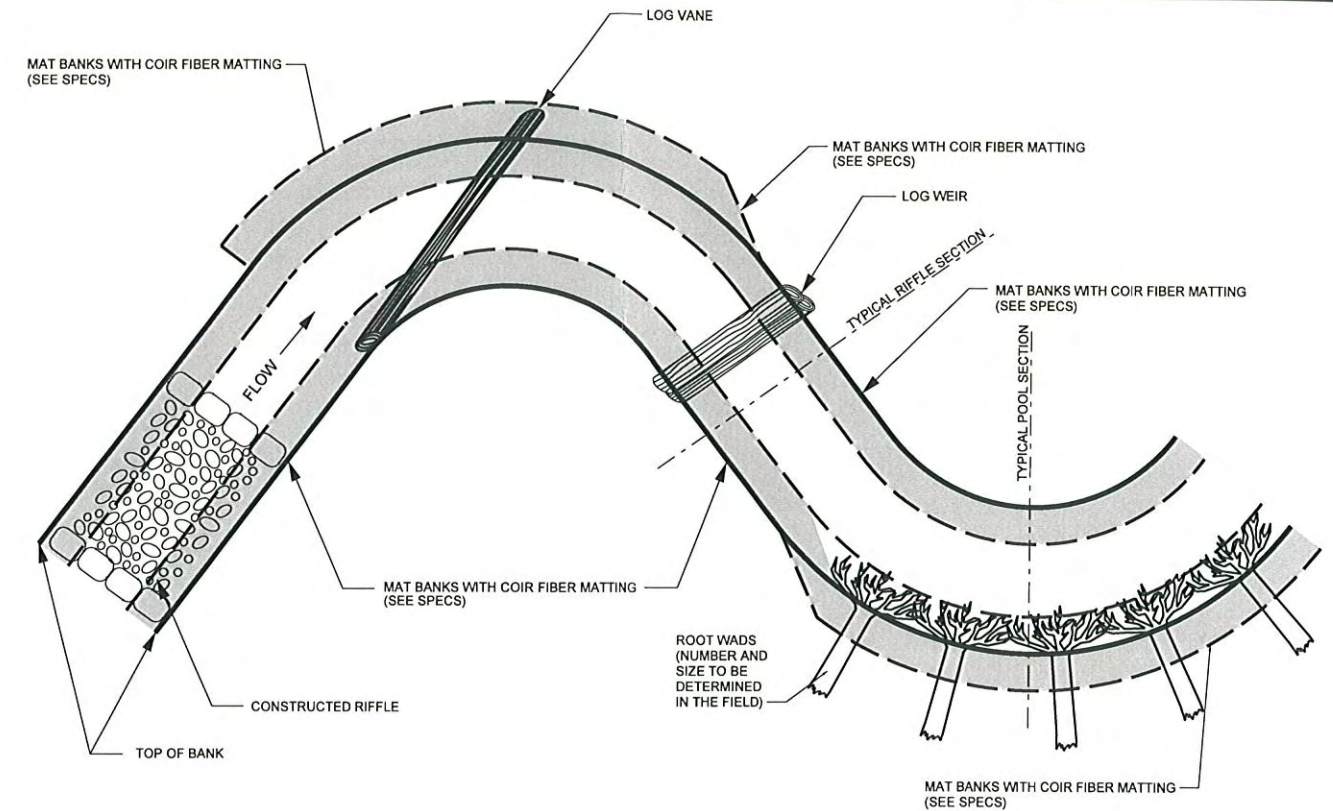
ROOT WADS



NOTES:
 TRENCHING METHOD:
 IF THE ROOT WAD CANNOT BE DRIVEN INTO THE BANK OR THE BANK NEEDS TO BE RECONSTRUCTED, THE TRENCHING METHOD SHOULD BE USED. THIS METHOD REQUIRES THAT A TRENCH BE EXCAVATED FOR THE LOG. PORTION OF THE ROOT WAD IN THIS CASE A FOOTER LOG SHOULD BE INSTALLED UNDERNEATH THE ROOT WAD IN A TRENCH EXCAVATED PARALLEL TO THE BANK AND WELL BELOW THE STREAMBED ONE-THIRD OF THE ROOT WAD SHOULD REMAIN BELOW NORMAL BASE FLOW CONDITIONS.

NOTES:
 DRIVE POINT METHOD:
 SHARPEN THE END OF THE LOG WITH A CHAINSAW BEFORE "DRIVING" IT INTO THE BANK ORIENT ROOT WADS UPSTREAM SO THAT THE STREAM FLOW MEETS THE ROOT WAD AT A 90-DEGREE ANGLE DEFLECTING THE WATER AWAY FROM THE BANK A TRANSPLANT OR BOULDER SHOULD BE PLACED ON THE DOWNSTREAM SIDE OF THE ROOT WAD IF A BACK EDDY IS FORMED BY THE ROOT WAD. THE BOULDER SHALL BE APPROXIMATELY 4'X 3'X 2'.

TYPICAL STRUCTURE PLACEMENT



STRUCTURE NOTES:

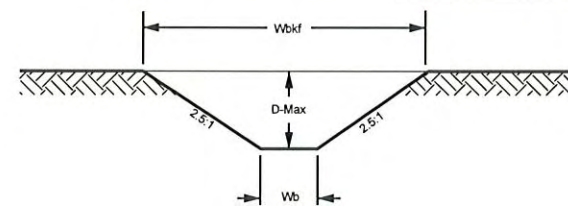
1. GENERALLY LOG WEIRS, ROOT WADS, LOG VANES AND COIR FIBER MATTING WILL BE INSTALLED IN THE LOCATION AND SEQUENCE AS SHOWN.
2. ADDITIONAL STRUCTURES OR CHANGES TO STRUCTURE LOCATIONS MAY BE MADE BY THE DESIGN ENGINEER DURING CONSTRUCTION.

NOTES:

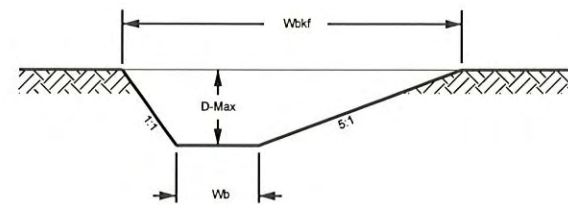
1. COIR FIBER MATTING TO BE INSTALLED ON ALL RESTORED STREAMBANKS.
2. IF ROOT WADS DO NOT COVER ENTIRE SLOPE ON OUTSIDE OF MEANDER BENDS, COIR FIBER MATTING IS NEEDED.

PROJECT REFERENCE NO. 0214R	SHEET NO. 2
PROJECT ENGINEER	
THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY: KEVIN L. TWEEDY 027337 AUGUST 26, 2005 THIS MEDIA SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT	
8000 Regency Parkway Suite 200 Cary, North Carolina 27511 Phone: 919-463-5488 Fax: 919-463-5490	

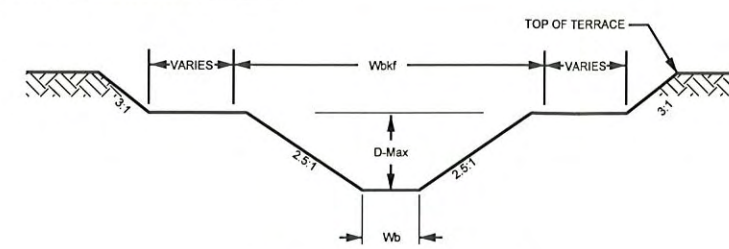
TYPICAL RIFFLE, POOL, AND BANKFULL BENCH CROSS SECTIONS



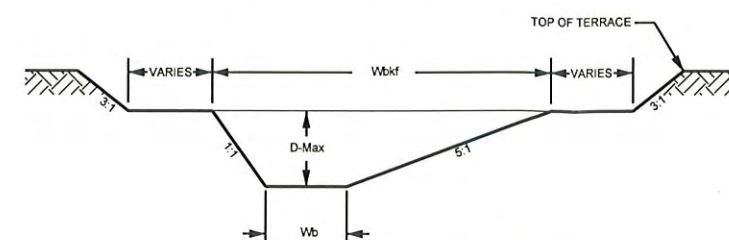
RIFFLE



POOL



RIFFLE WITH BANKFULL BENCH

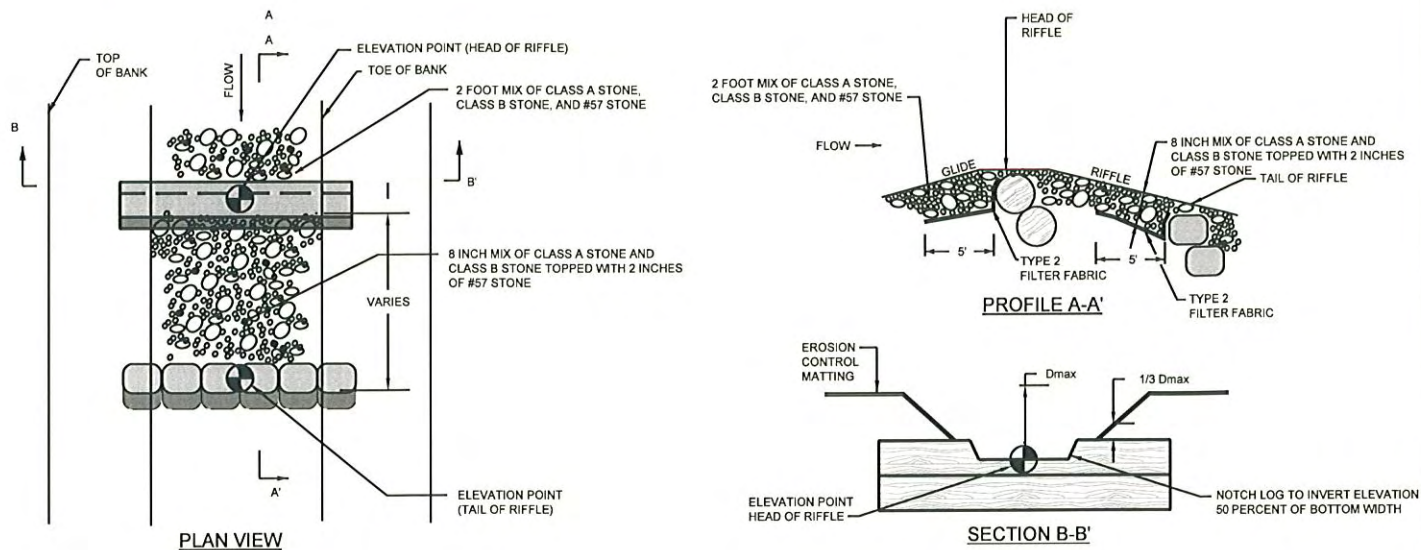


POOL WITH BANKFULL BENCH

- NOTES:**
1. DURING CONSTRUCTION CORNERS OF DESIGN CHANNEL WILL BE ROUNDED AND A THALWEG WILL BE SHAPED PER DIRECTION OF ENGINEER.
 2. POOLS SHOWN ABOVE ARE LEFT POOLS ONLY.

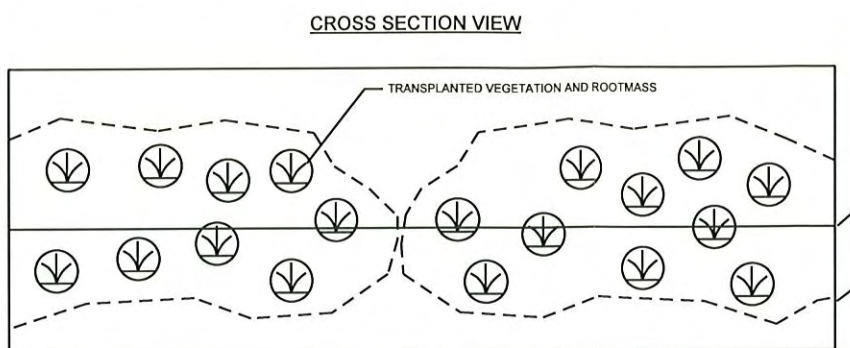
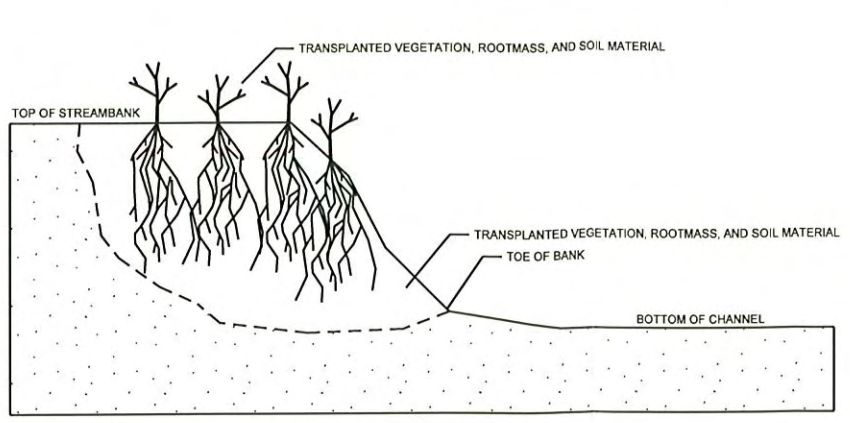
COX	
RIFFLE	POOL
13.7	18.0
1.0	1.5
14.0	12.1
13.5	26.9
9.0	5.4

WIDTH OF BANKFULL (Wbkf)
 MAXIMUM DEPTH (D-Max)
 WIDTH TO DEPTH RATIO (Wbkf / D)
 BANKFULL AREA (Abkf)
 BOTTOM WIDTH (Wb)



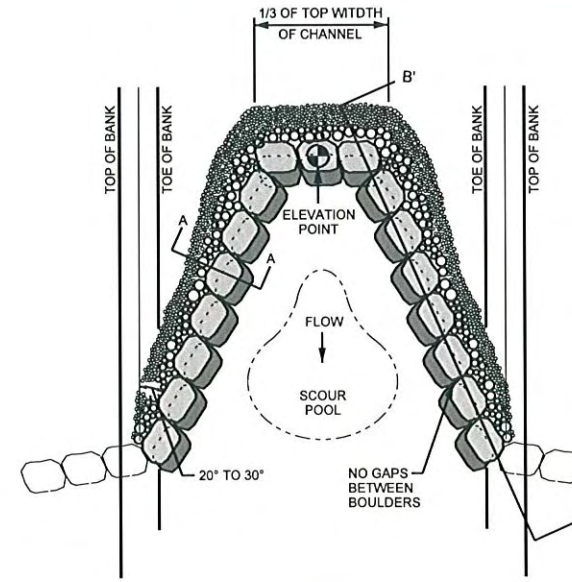
- NOTES:**
- LOGS MUST BE AT LEAST 10 INCHES IN DIAMETER AND 15 FEET LONG
 - DIG A TRENCH BELOW THE BED FOR THE UPSTREAM FOOTER LOGS AND STOCK PILE CUT MATERIAL
 - PLACE FOOTER LOGS FIRST AND THEN HEADER (TOP) LOG. SET HEADER LOG APPROXIMATELY 3 INCHES ABOVE THE INVERT ELEVATION.
 - CUT A NOTCH IN THE HEADER LOG APPROXIMATELY 50 PERCENT OF THE CHANNEL BOTTOM WIDTH AND EXTENDING DOWN TO THE INVERT ELEVATION.
 - PLACE FOOTER ROCK FIRST AT TAIL OF RIFFLE AND THEN HEADER ROCK
 - FOR BOTH INVERTS, INSTALL FILTER FABRIC FOR DRAINAGE BEGINNING AT THE MIDDLE OF THE HEADER AND EXTEND DOWNWARD TO THE DEPTH OF THE FOOTER, AND THEN UPSTREAM TO A MINIMUM OF FIVE FEET.
 - FILL IN THE UPSTREAM SIDE OF THE STRUCTURE WITH 2 FOOT MIX OF CLASS A STONE, CLASS B STONE, AND #57 STONE TO THE ELEVATION OF THE TOP OF THE HEADER LOG
 - UNDERCUT RIFFLE BETWEEN INVERTS BY 8 INCHES, BACKFILL BETWEEN LOGS WITH A 8 INCH MIX OF CLASS A AND B STONE TOP WITH 2 INCHES OF #57 STONE

TRANSPLANTED VEGETATION

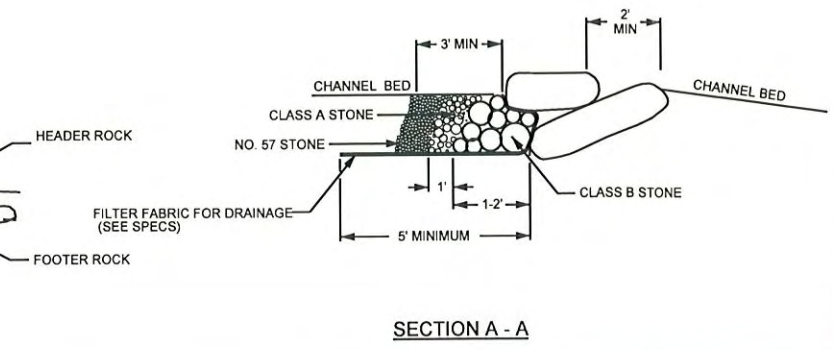
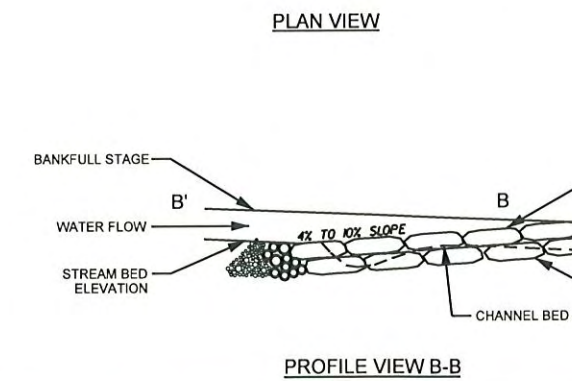


- NOTES:**
- EXCAVATE A HOLE IN THE BANK TO BE STABILIZED THAT WILL ACCOMMODATE THE SIZE OF TRANSPLANT TO BE PLACED. BEGIN EXCAVATION AT THE TOE OF THE BANK
 - EXCAVATE TRANSPLANT USING A FRONT END LOADER. EXCAVATE THE ENTIRE ROOT MASS AND AS MUCH ADDITIONAL SOIL MATERIAL AS POSSIBLE. IF ENTIRE ROOT MASS CAN NOT BE EXCAVATED IN ONE BUCKET LOAD, THE TRANSPLANT IS TOO LARGE AND ANOTHER SHOULD BE SELECTED.
 - PLACE TRANSPLANT IN THE BANK TO BE STABILIZED SO THAT VEGETATION IS ORIENTATED VERTICALLY.
 - FILL IN ANY HOLES AROUND THE TRANSPLANT AND COMPACT.
 - ANY LOOSE SOIL LEFT IN THE STREAM SHOULD BE REMOVED.
 - PLACE MULTIPLE TRANSPLANTS CLOSE TOGETHER SUCH THAT THEY TOUCH.

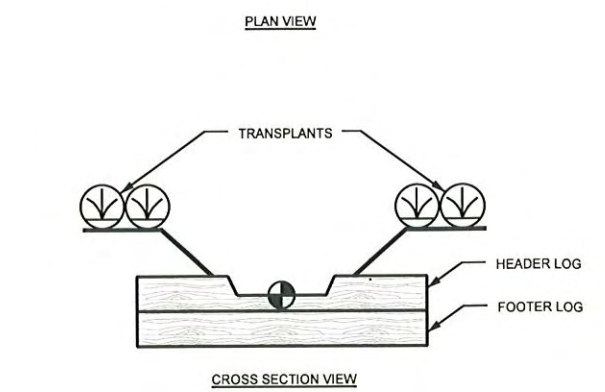
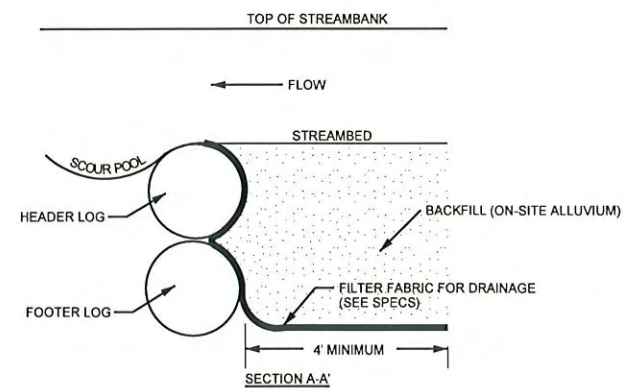
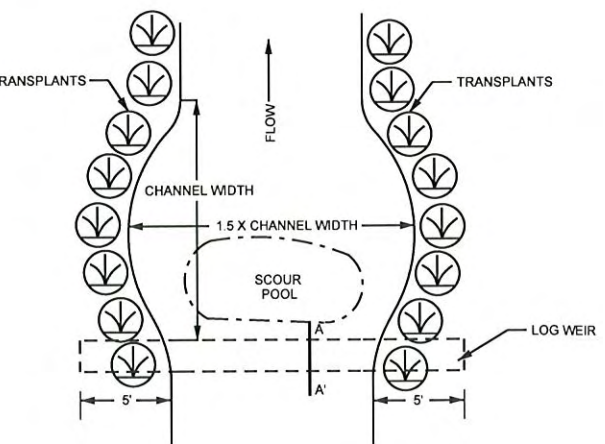
ROCK CROSS VANE



- NOTES FOR ALL VANE STRUCTURES:**
- BOULDERS MUST BE AT LEAST 2' x 2' x 3'
 - INSTALL FILTER FABRIC FOR DRAINAGE BEGINNING AT THE MIDDLE OF THE HEADER ROCKS AND EXTEND DOWNWARD TO THE DEPTH OF THE BOTTOM FOOTER ROCK, AND THEN UPSTREAM TO A MINIMUM OF FIVE FEET.
 - DIG A TRENCH BELOW THE BED FOR FOOTER ROCKS AND PLACE FILL ON UPSTREAM SIDE OF VANE ARM, BETWEEN THE ARM AND STREAMBED.
 - START AT BANK AND PLACE FOOTER ROCKS FIRST AND THEN HEADER (TOP) ROCK.
 - CONTINUE WITH STRUCTURE, FOLLOWING ANGLE AND SLOPE SPECIFICATIONS.
 - AN EXTRA BOULDER CAN BE PLACED IN SCOUR POOL FOR HABITAT IMPROVEMENT.
 - USE CLASS B STONE TO FILL GAPS ON UPSTREAM SIDE OF BOULDERS, THEN CLASS A STONE IN FRONT OF CLASS B STONE, AND #57 STONE TO FILL GAPS ON UPSTREAM SIDE OF CLASS A STONE.
 - AFTER ALL STONE HAS BEEN PLACED, FILL IN THE UPSTREAM SIDE OF THE STRUCTURE WITH ON-SITE ALLUVIUM TO THE ELEVATION OF THE TOP OF THE HEADER ROCK.
 - START SLOPE AT BANKFULL STAGE.



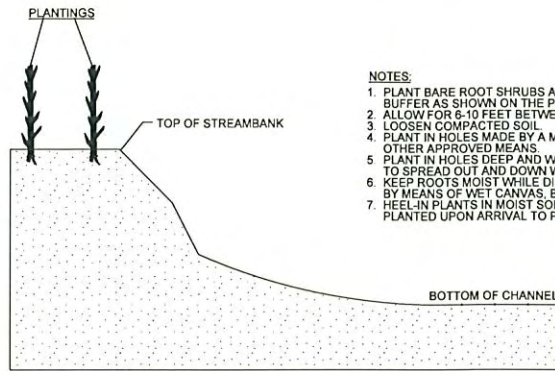
LOG WEIR



- NOTES:**
- LOGS SHOULD BE AT LEAST 12 INCHES IN DIAMETER, RELATIVELY STRAIGHT, HARDWOOD, AND RECENTLY HARVESTED.
 - LOGS >24 INCHES IN DIAMETER MAY BE USED ALONE WITHOUT AN ADDITIONAL LOG. FILTER FABRIC SHOULD STILL BE USED TO SEAL AROUND LOG
 - PLACE FOOTER LOGS FIRST AND THEN HEADER (TOP) LOG. SET HEADER LOG APPROXIMATELY 3 INCHES ABOVE THE INVERT ELEVATION.
 - CUT A NOTCH IN THE HEADER LOG APPROXIMATELY 50 PERCENT OF THE CHANNEL BOTTOM WIDTH AND EXTENDING DOWN TO THE INVERT ELEVATION.
 - USE FILTER FABRIC FOR DRAINAGE TO SEAL GAPS BETWEEN LOGS.
 - PLACE TRANSPLANTS FROM TOE OF STREAMBANK TO TOP OF STREAMBANK.

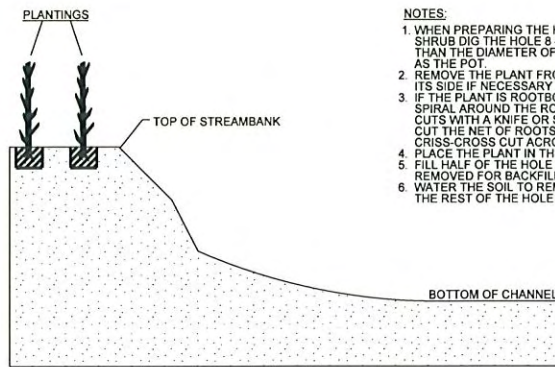
2/26/03

PLANTING SPECIFICATIONS



CROSS SECTION VIEW OF BARE ROOT PLANTING

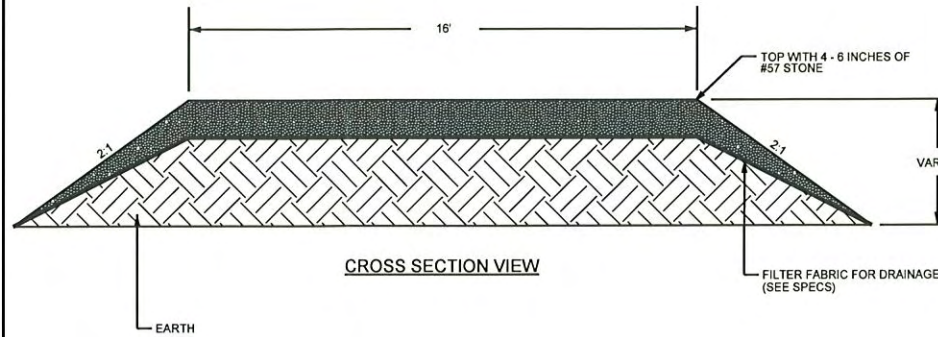
- NOTES:**
1. PLANT BARE ROOT SHRUBS AND TREES TO THE WIDTH OF THE BUFFER AS SHOWN ON THE PLANS.
 2. ALLOW FOR 6-10 FEET BETWEEN PLANTINGS, DEPENDING ON SIZE
 3. LOOSEN COMPACTED SOIL.
 4. PLANT IN HOLES MADE BY A MATTOCK, DIBBLE, PLANTING BAR, OR OTHER APPROVED MEANS.
 5. PLANT IN HOLES DEEP AND WIDE ENOUGH TO ALLOW THE ROOTS TO SPREAD OUT AND DOWN WITHOUT J-ROOTING.
 6. KEEP ROOTS MOIST WHILE DISTRIBUTING OR WAITING TO PLANT BY MEANS OF WET CANVAS, BURLAP, OR STRAW.
 7. HEEL-IN PLANTS IN MOIST SOIL OR SAWDUST IF NOT PROMPTLY PLANTED UPON ARRIVAL TO PROJECT SITE.



CROSS SECTION VIEW OF CONTAINER PLANTING

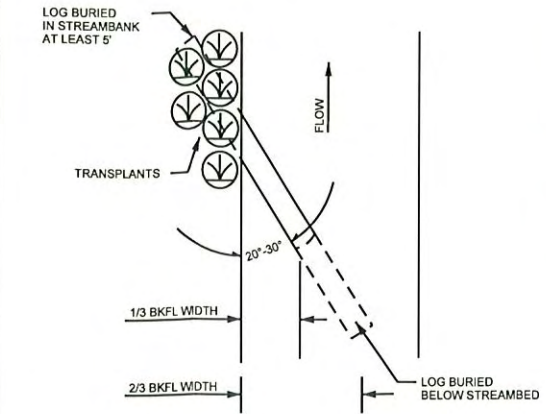
- NOTES:**
1. WHEN PREPARING THE HOLE FOR A POTTED PLANT OR SHRUB DIG THE HOLE 8 - 12 INCHES LARGER THAN THE DIAMETER OF THE POT AND THE SAME DEPTH AS THE POT.
 2. REMOVE THE PLANT FROM THE POT. LAY THE PLANT ON ITS SIDE IF NECESSARY TO REMOVE THE POT.
 3. IF THE PLANT IS ROOTBOUND (ROOTS GROWING IN A SPIRAL AROUND THE ROOT BALL), MAKE VERTICAL CUTS WITH A KNIFE OR SPADE JUST DEEP ENOUGH TO CUT THE NET OF ROOTS. ALSO MAKE A CRISS-CROSS CUT ACROSS THE BOTTOM OF THE BALL.
 4. PLACE THE PLANT IN THE HOLE.
 5. FILL HALF OF THE HOLE WITH SOIL (SAME SOIL REMOVED FOR BACKFILL).
 6. WATER THE SOIL TO REMOVE AIR POCKETS AND FILL THE REST OF THE HOLE WITH THE REMAINING SOIL.

FARM PATH

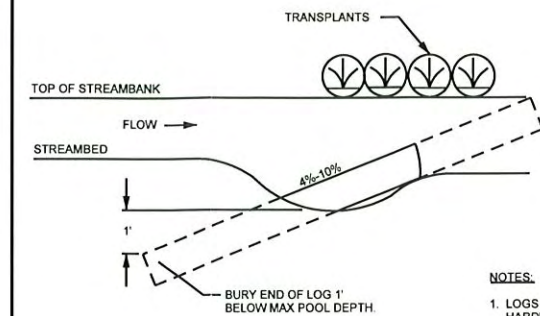


CROSS SECTION VIEW

LOG VANE



PLAN VIEW

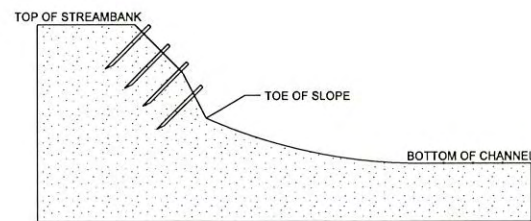


PROFILE VIEW

- NOTES:**
1. LOGS SHOULD BE AT LEAST 12" IN DIAMETER, RELATIVELY STRAIGHT, HARDWOOD, AND RECENTLY HARVESTED.
 2. SOIL SHOULD BE COMPACTED WELL AROUND BURIED PORTIONS OF LOG.
 3. TRANSPLANTS ARE PLACED ALONG THE TOP OF THE BANK OVER THE BURIED LOG VANE TO PROTECT AGAINST EROSION DURING HIGH FLOWS.

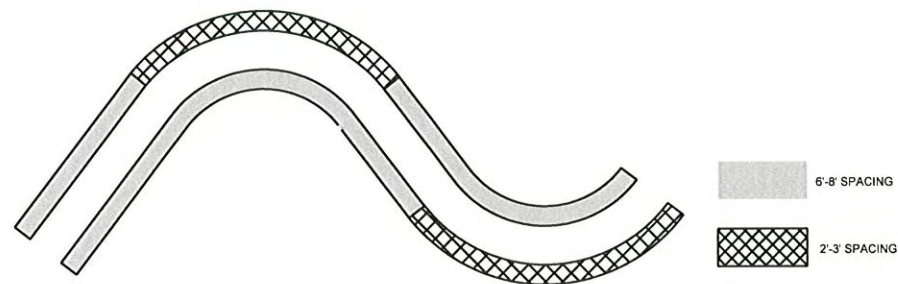
PROJECT REFERENCE NO. 0214R	SHEET NO. 2-B
PROJECT ENGINEER	
THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY:	
KEVIN J. TWEEDY 027337 AUGUST 26, 2005	
THIS MEDIA SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT	
BUCK ENGINEERING	
8000 Regency Parkway Suite 200 Cary, North Carolina 27511 Phone: 919-463-5488 Fax: 919-463-5490	

LIVE STAKING SPECIFICATION

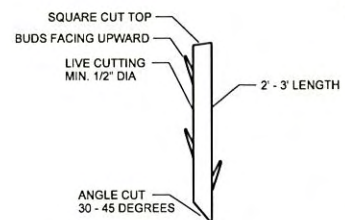


CROSS SECTION VIEW

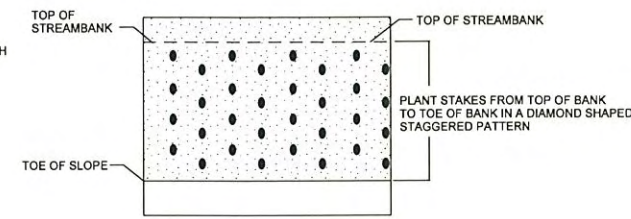
- NOTES:**
1. STAKES SHOULD BE CUT AND INSTALLED ON THE SAME DAY.
 2. DO NOT INSTALL STAKES THAT HAVE BEEN SPLIT.
 3. STAKES MUST BE INSTALLED WITH BUDS POINTING UPWARDS.
 4. STAKES SHOULD BE INSTALLED PERPENDICULAR TO BANK.
 5. STAKES SHOULD BE 1/2 TO 2 INCHES IN DIAMETER AND 2 TO 3 FT LONG.
 6. STAKES SHOULD BE INSTALLED LEAVING 1/5 OF STAKE ABOVE GROUND.



PLAN VIEW

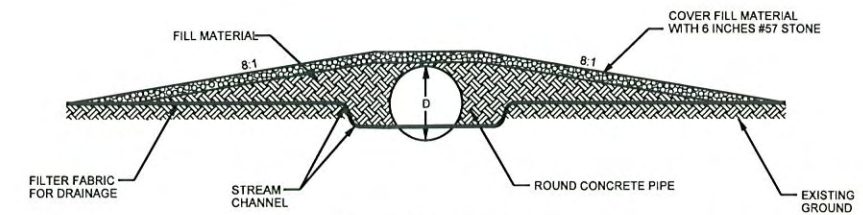


LIVE STAKE DETAIL

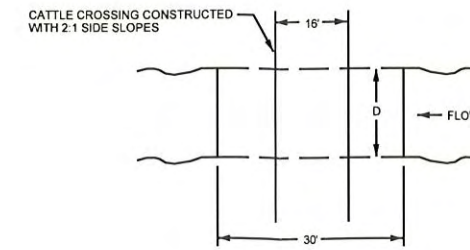


PLAN VIEW

PERMANENT STREAM CROSSING

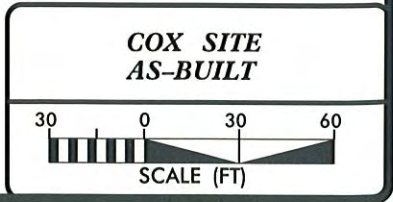
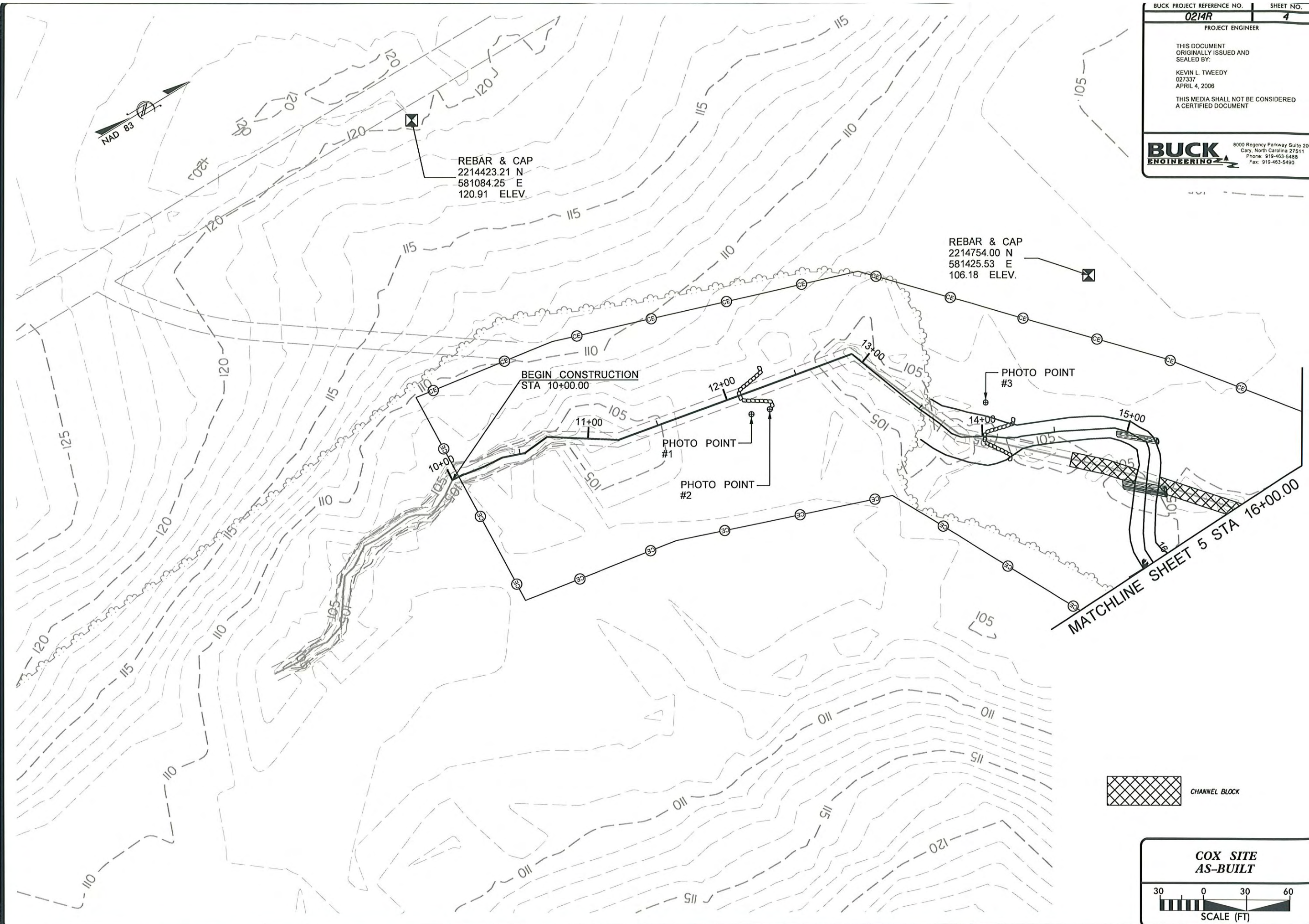


CROSS SECTION VIEW



PLAN VIEW

4/12/2005
r:\2244R\Design\Ploms\0214R_EBX_PSH_2B.dgn



4/18/2006
 r:\0214R\Design\as-built\0214R_EBX_esh_4.dgn



MATCHLINE SHEET 4 STA 16+00.00

MATCHLINE SHEET 6 STA 24+50.00

REBAR & CAP
2214923.88 N
581689.62 E
104.60 ELEV.


PHOTO POINT #4


PHOTO POINT #6

X-SECTION 1
STA 19+58.89


X-SECTION 2
STA 19+98.20

PHOTO POINT #5

 FILL EXISTING CHANNEL

 CHANNEL BLOCK

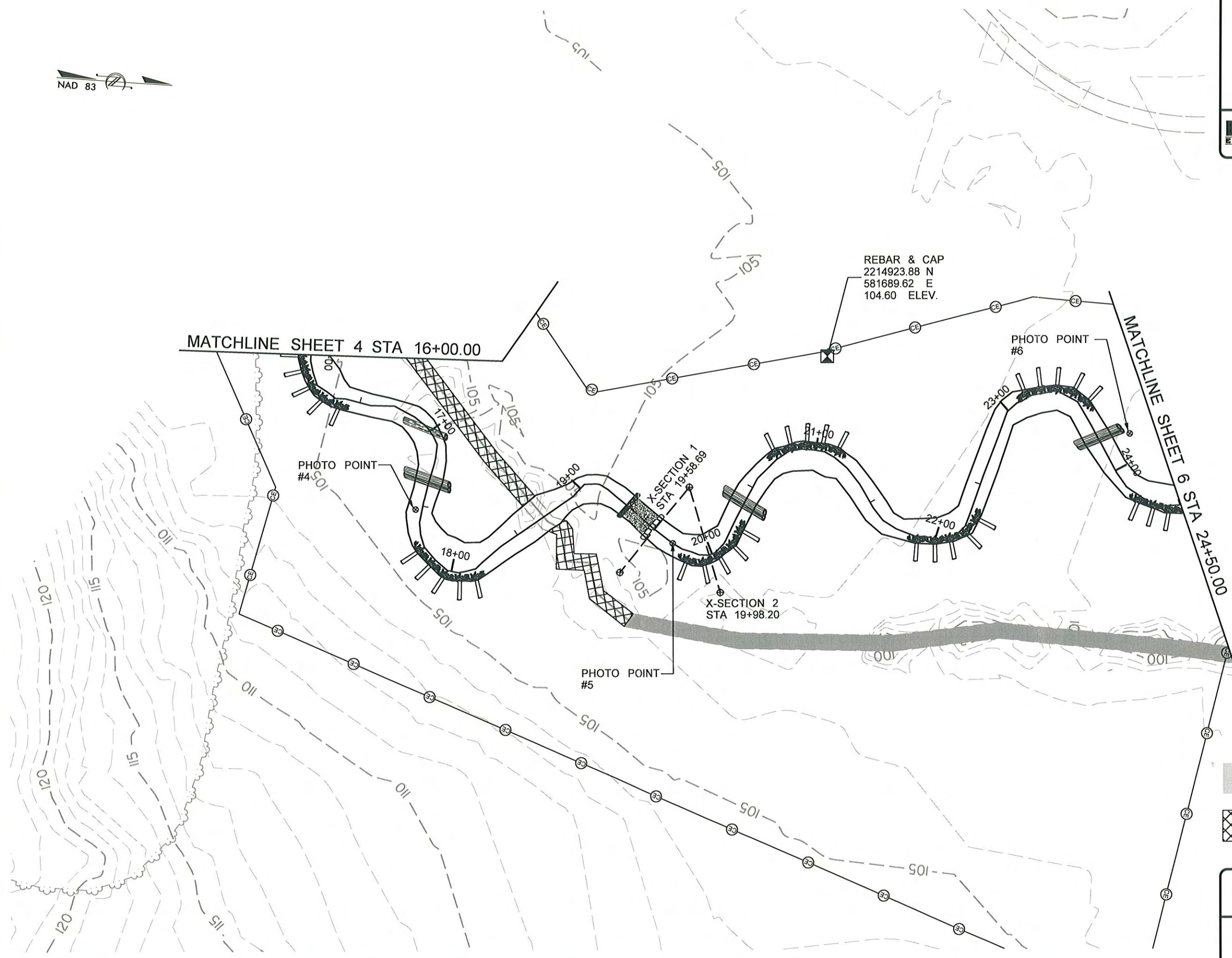
**COX SITE
AS-BUILT**



SCALE (FT)

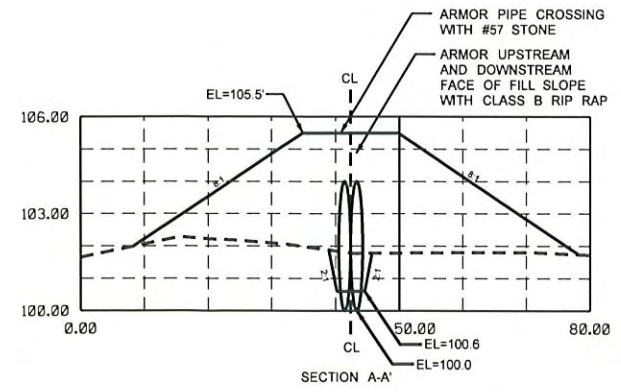
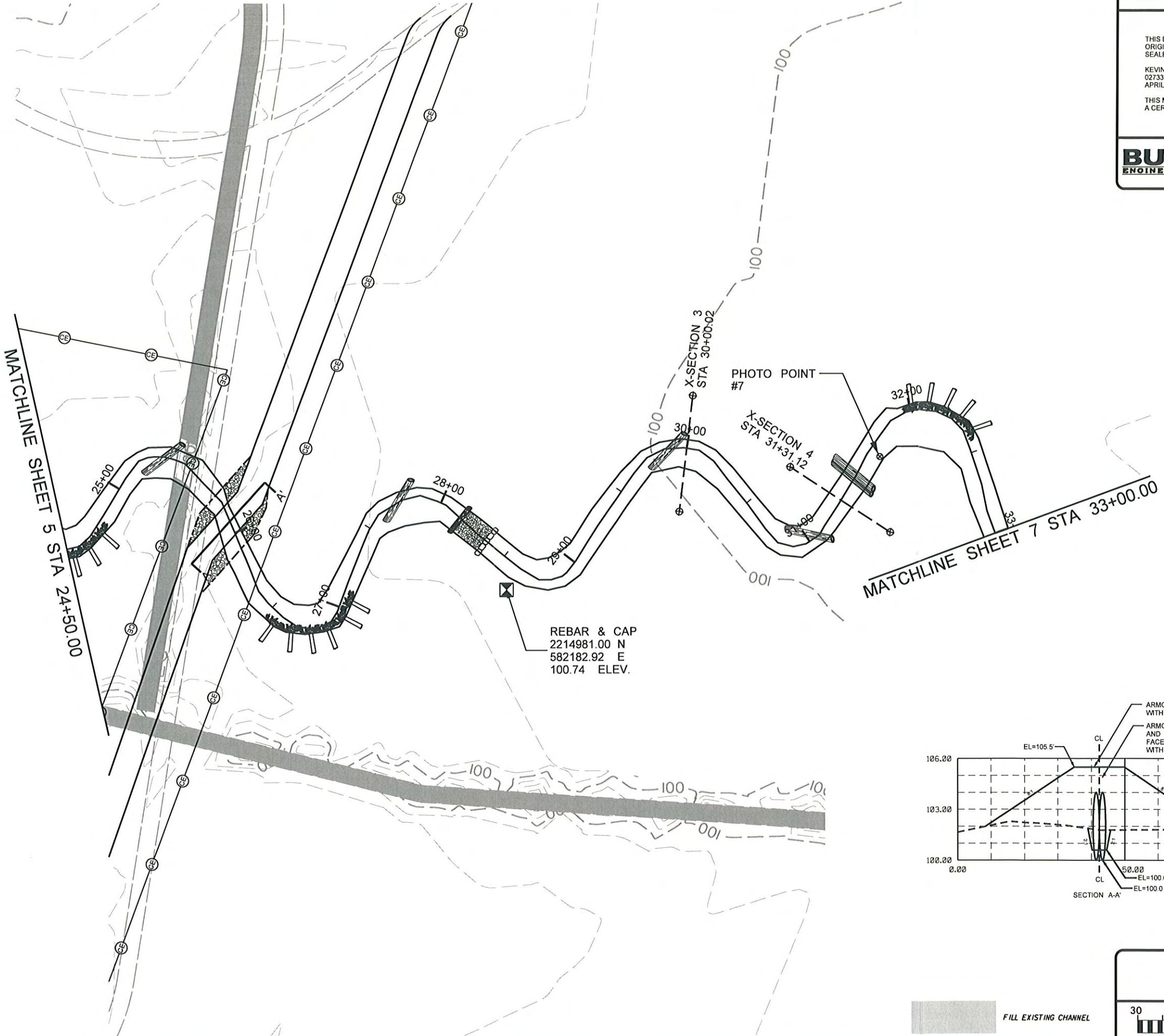
2/26/03

4/2/2006
C:\214R\Design\as-built\0214R_EBX_asb_5.dgn



2/26/03

BUCK PROJECT REFERENCE NO. 0214R	SHEET NO. 6
PROJECT ENGINEER	
THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY:	
KEVIN L. TWEEDY 027337 APRIL 4, 2006	
THIS MEDIA SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT	
	
<small>8000 Regency Parkway Suite 200 Cary, North Carolina 27511 Phone: 919-463-5488 Fax: 919-463-5490</small>	



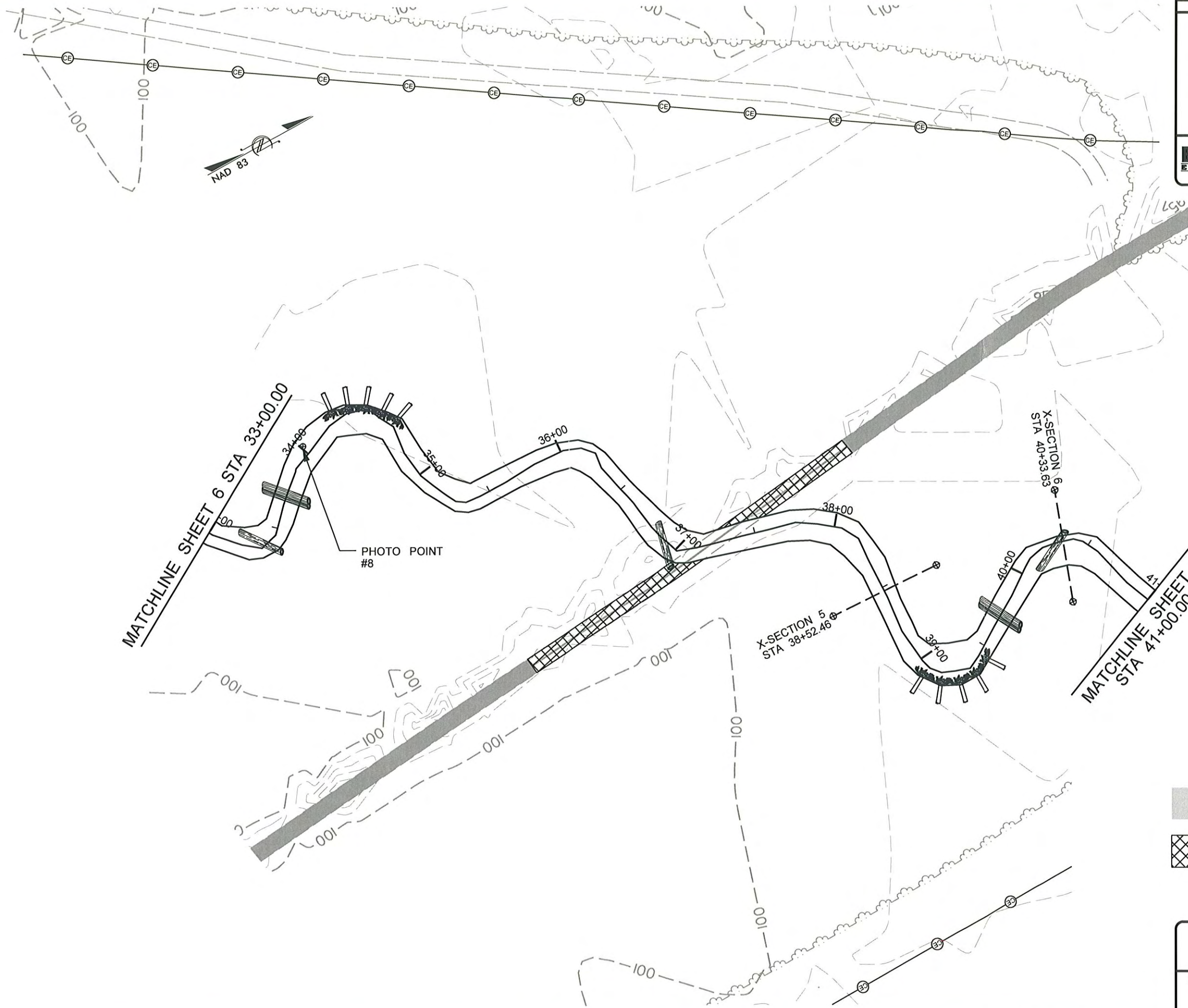
**COX SITE
AS-BUILT**

SCALE (FT)

4/12/2006
r:\0214R\Design\as-built\0214R_EBX_05b_6.dgn

2/26/03

BUCK PROJECT REFERENCE NO.	SHEET NO.
0214R	7
PROJECT ENGINEER	
THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY:	
KEVIN L. TWEEDY 027337 APRIL 4, 2006	
THIS MEDIA SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT	
BUCK ENGINEERING	
8000 Regency Parkway Suite 200 Cary, North Carolina 27511 Phone: 919-463-5488 Fax: 919-463-5490	




MATCHLINE SHEET 6 STA 33+00.00


PHOTO POINT #8

X-SECTION 5
STA 38+52.46

X-SECTION 6
STA 40+33.63

MATCHLINE SHEET 8
STA 41+00.00

 FILL EXISTING CHANNEL

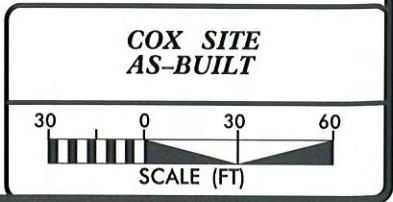
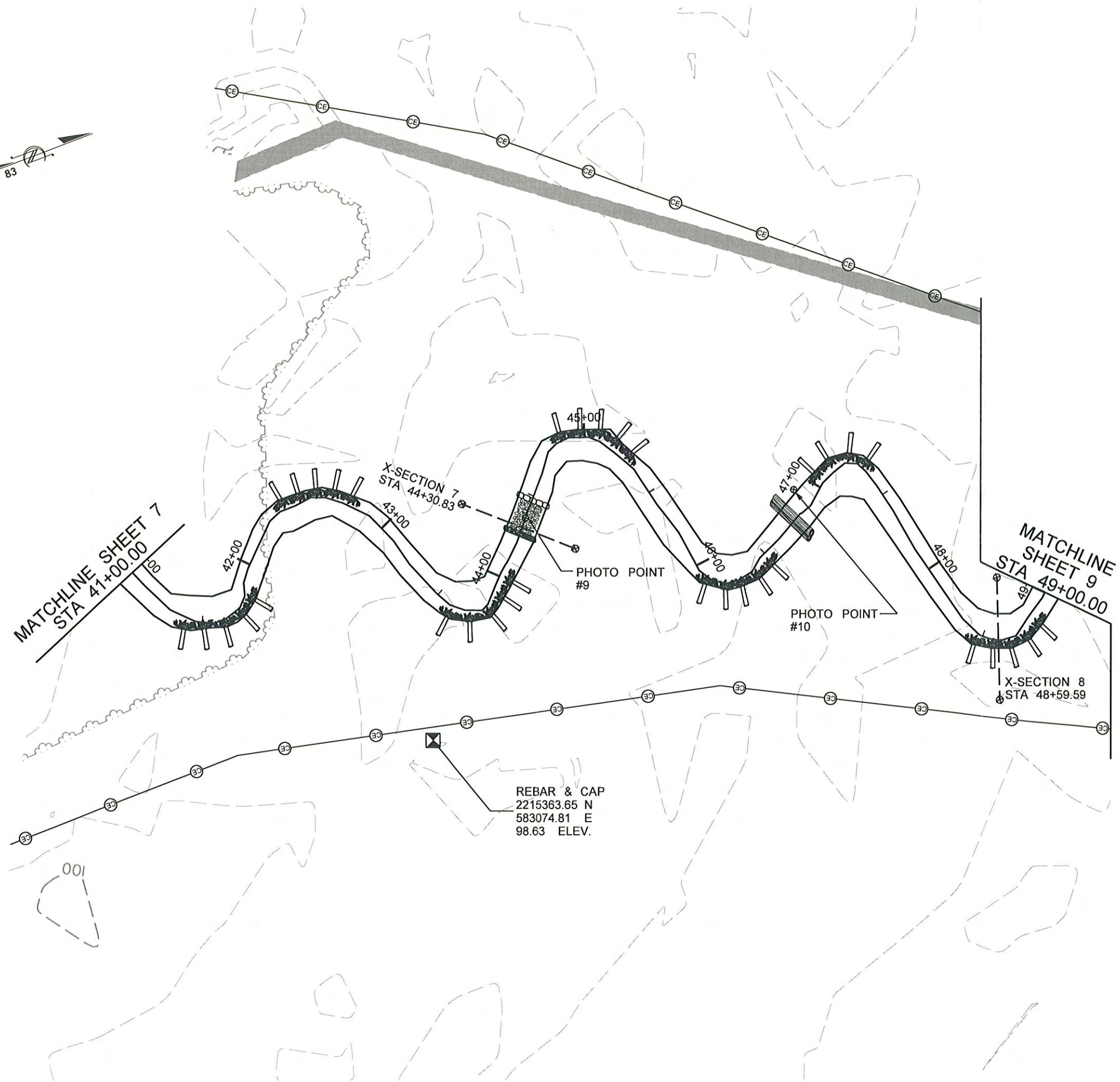
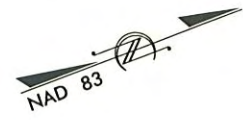
 CHANNEL BLOCK

**COX SITE
AS-BUILT**

30 0 30 60

SCALE (FT)

4/12/2006
r:\0214R\Design\as-buil\0214R_EBX_0sb_7.dgn



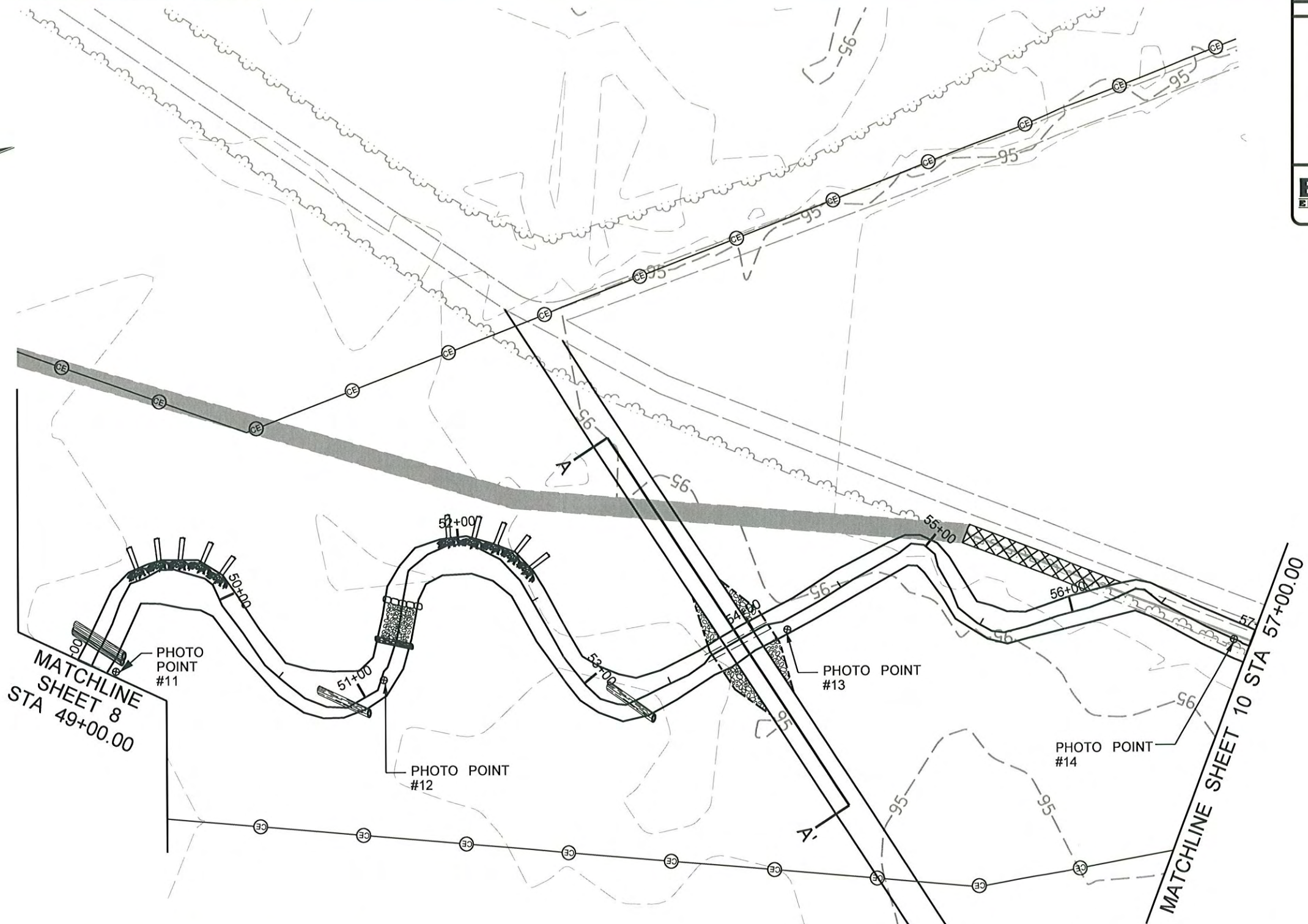
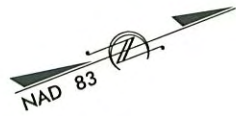
4/12/2006
 r:\0214R\Design\as-built\0214R_EBX_esh.B.dgn

THIS DOCUMENT
ORIGINALLY ISSUED AND
SEALED BY:

KEVIN L. TWEEDY
027337
APRIL 4, 2006

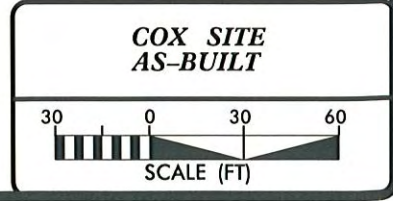
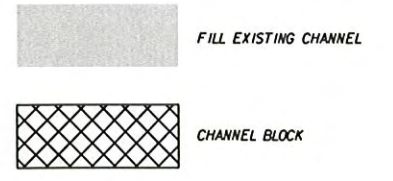
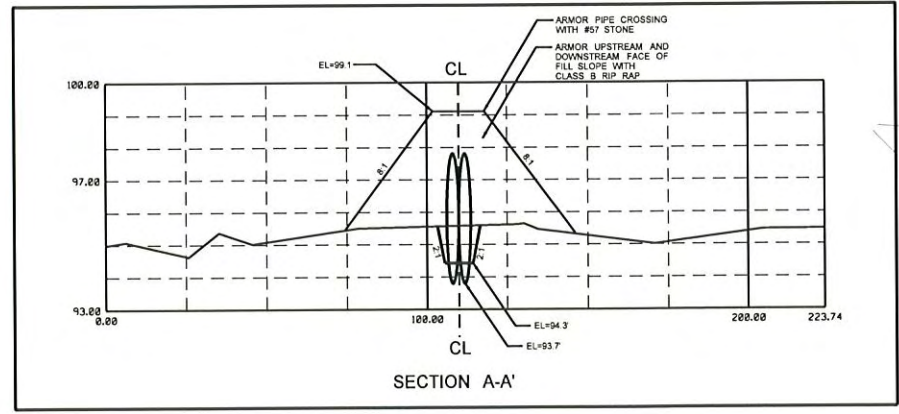
THIS MEDIA SHALL NOT BE CONSIDERED
A CERTIFIED DOCUMENT

BUCK ENGINEERING
8000 Regency Parkway Suite 200
Cary, North Carolina 27511
Phone: 919-463-5488
Fax: 919-463-5490

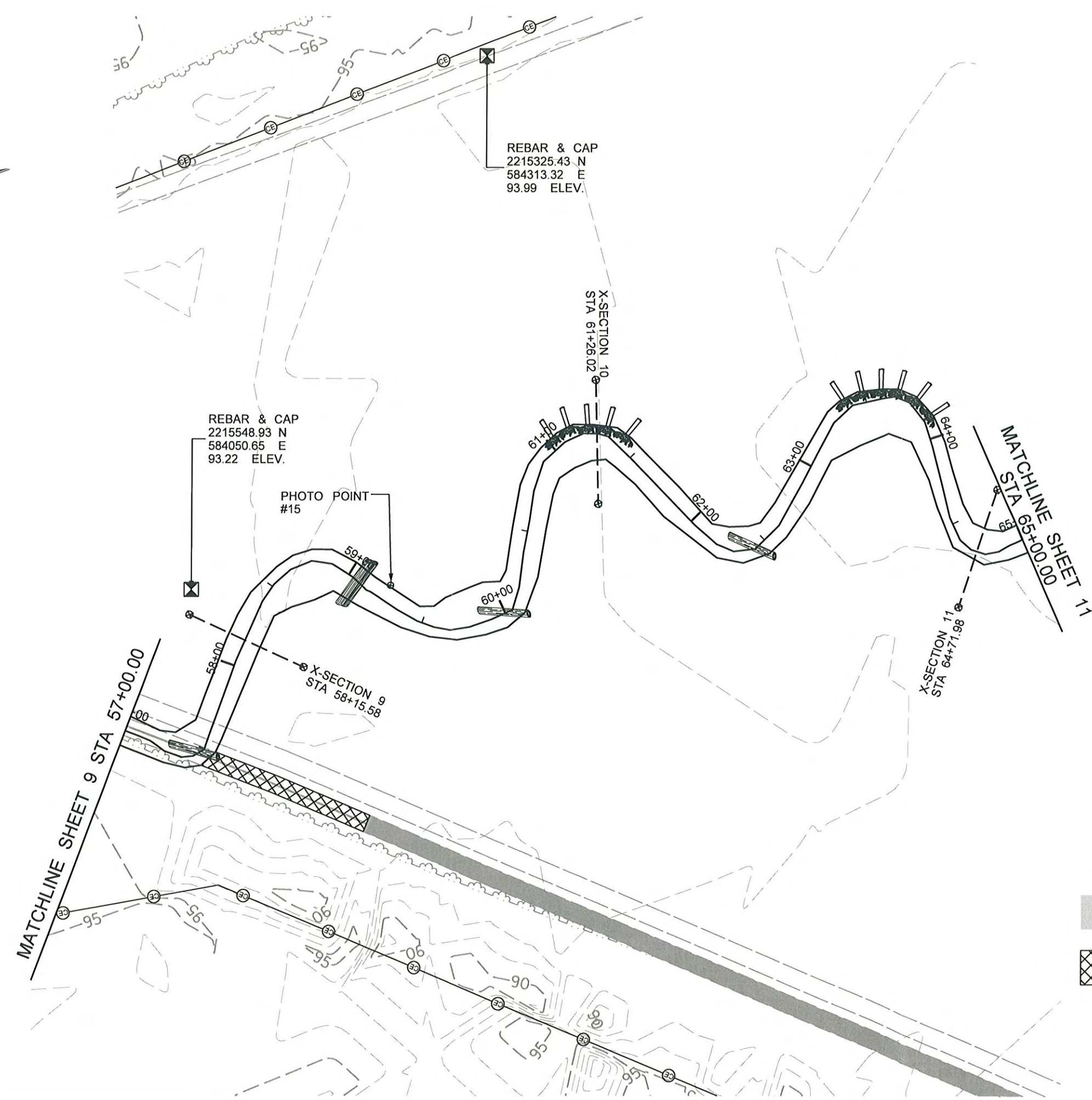
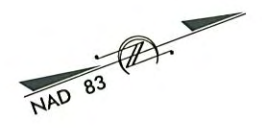


MATCHLINE
SHEET 8
STA 49+00.00

MATCHLINE SHEET 10 STA 57+00.00



2/26/03
4/12/2006
F:\0214R\Design\as-buil\0214R_EBX_esh_9.dgn



REBAR & CAP
2215548.93 N
584050.65 E
93.22 ELEV.

REBAR & CAP
2215325.43 N
584313.32 E
93.99 ELEV.

PHOTO POINT
#15

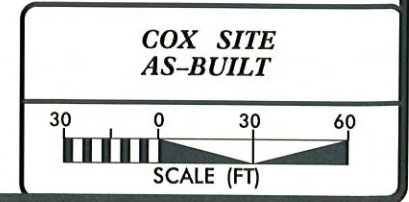
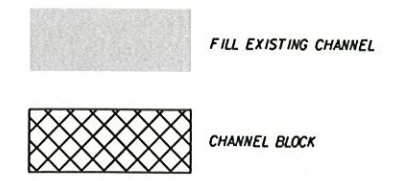
X-SECTION 9
STA 58+15.58


X-SECTION 10
STA 61+26.02

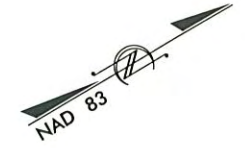
X-SECTION 11
STA 64+71.98

MATCHLINE SHEET 9 STA 57+00.00

MATCHLINE SHEET 11
STA 65+00.00

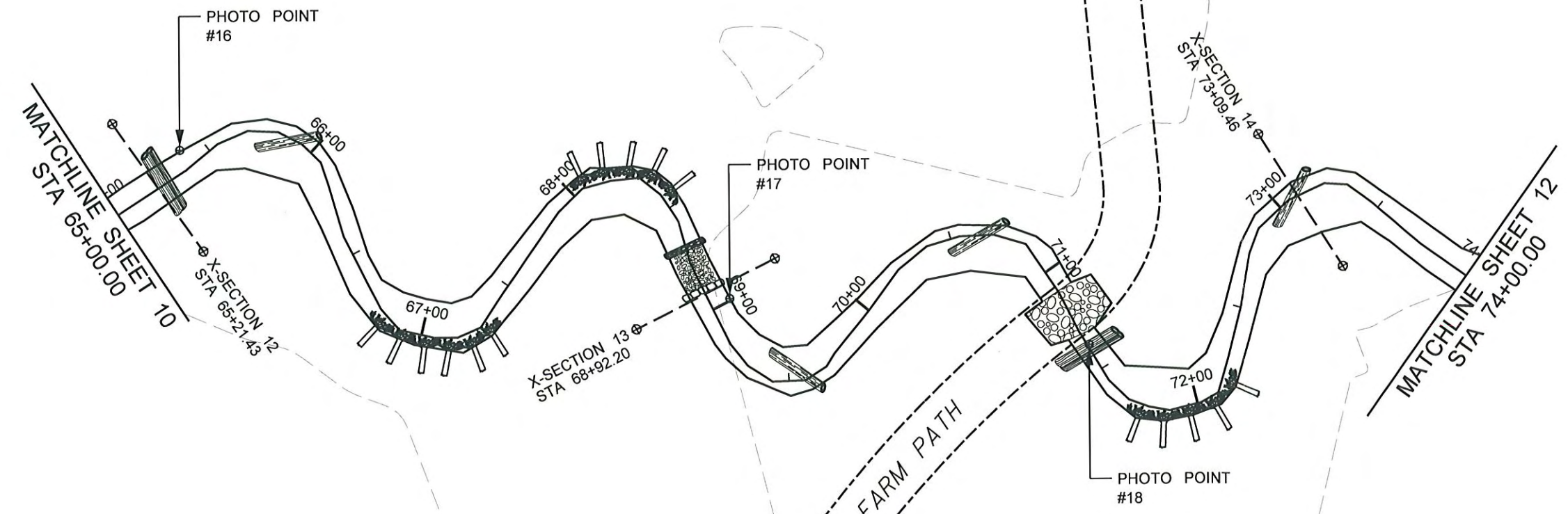


BUCK PROJECT REFERENCE NO.	SHEET NO.
0214R	11
PROJECT ENGINEER	
THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY:	
KEVIN L. TWEEDY 027337 APRIL 4, 2006	
THIS MEDIA SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT	
	
<small>8000 Regency Parkway Suite 200 Cary, North Carolina 27511 Phone: 919-483-5488 Fax: 919-483-5490</small>	



REBAR & CAP
2215622.36 N
584609.39 E
91.54 ELEV.

REBAR & CAP
2215740.31 N
585002.58 E
90.57 ELEV.



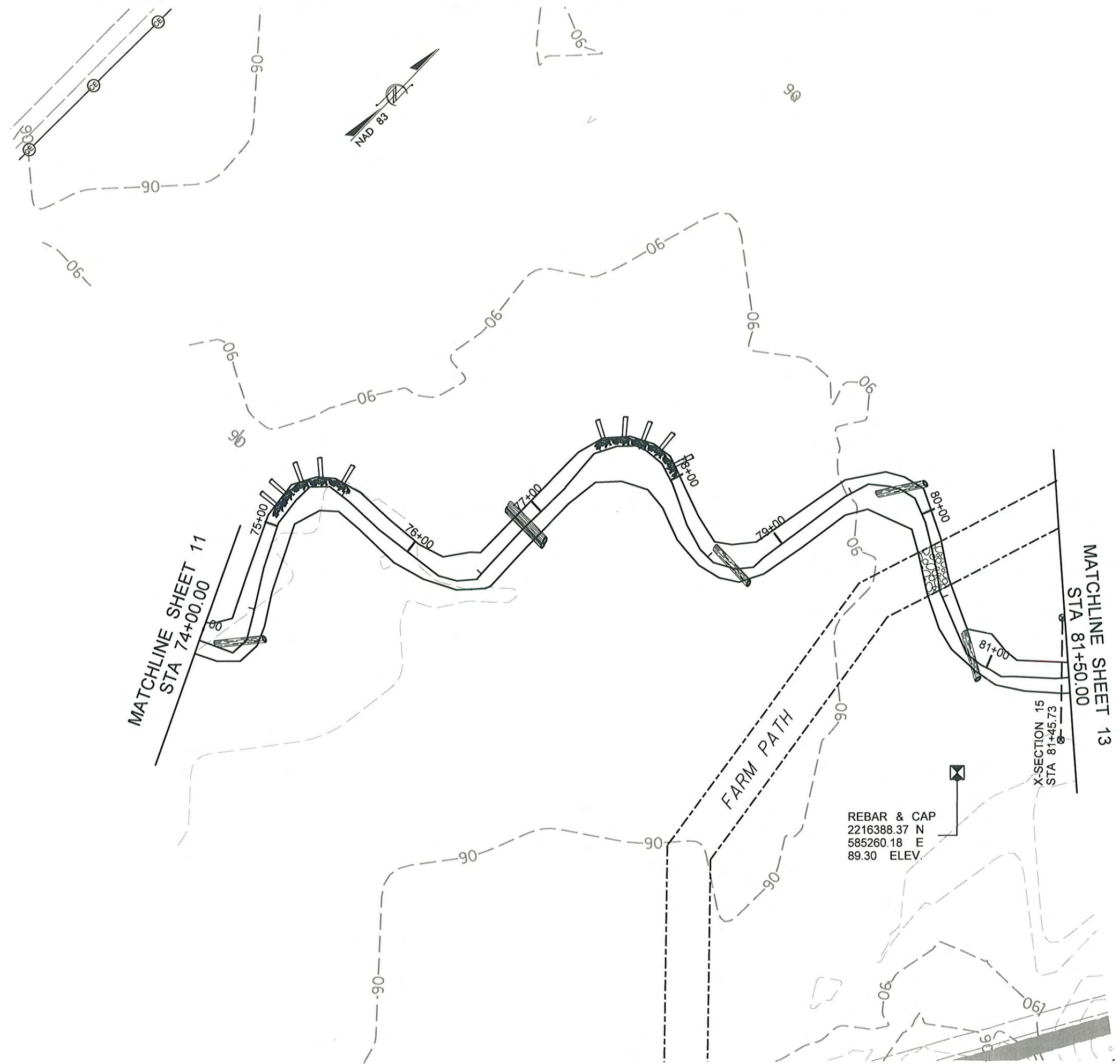
**COX SITE
AS-BUILT**

SCALE (FT)

2/26/03
 4:\214R\Design\as-buil\0214R.EBX.esb.11.dgn

2/26/03

4/12/2006
F:\0214R\Design\as-built\0214R.EBX.esb_12.dgn

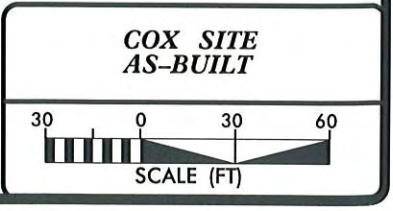
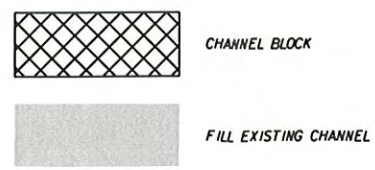
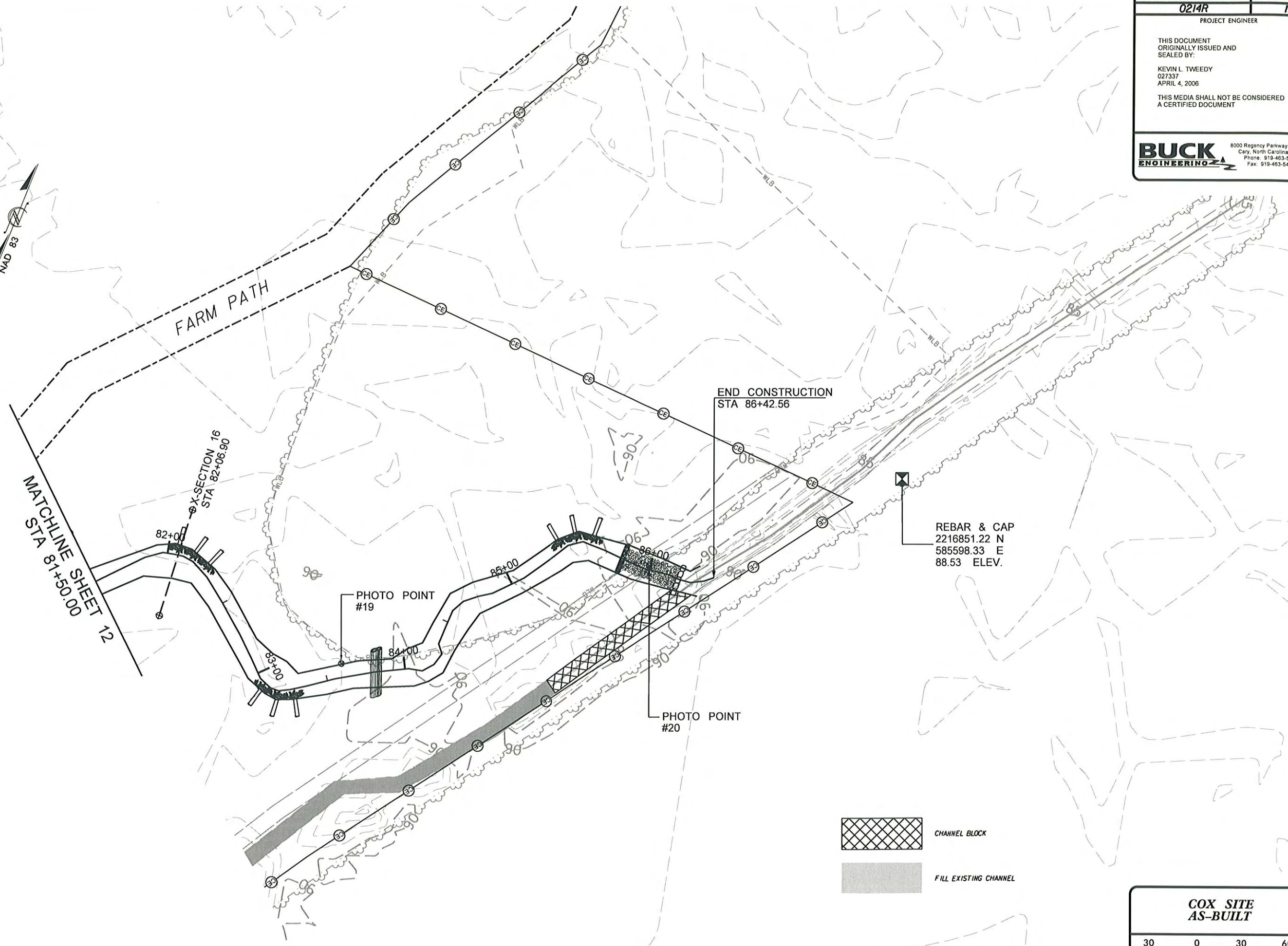


BUCK PROJECT REFERENCE NO. 0214R	SHEET NO. 12
PROJECT ENGINEER	
THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY:	
KEVIN L. TWEEDY 027337 APRIL 4, 2006	
THIS MEDIA SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT	
<small>8000 Regency Parkway Suite 200 Cary, North Carolina 27511 Phone: 919-463-5483 Fax: 919-463-5490</small>	

FILL EXISTING CHANNEL

**COX SITE
AS-BUILT**

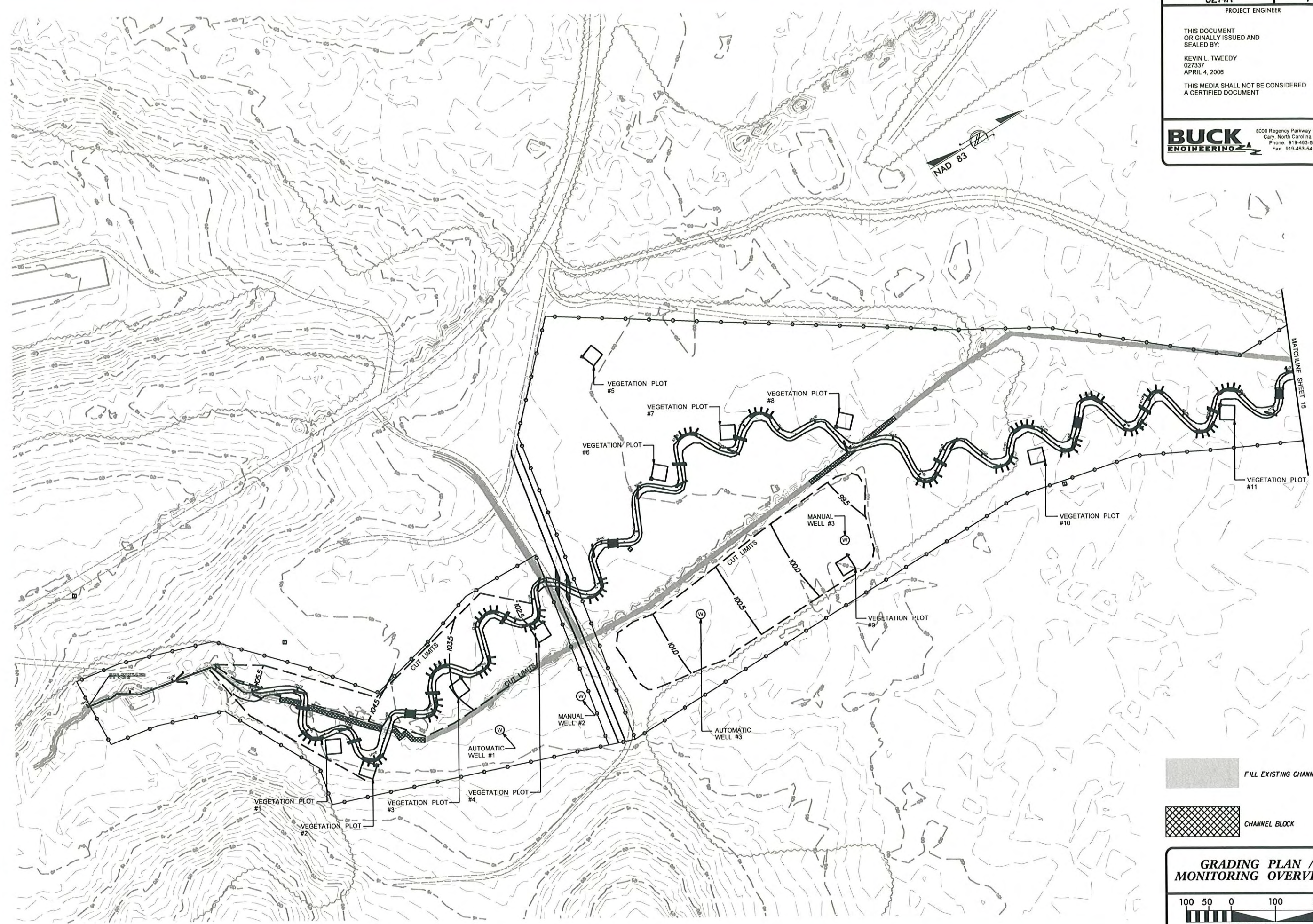
SCALE (FT)



4/18/2006
r:\0214R\Design\as-built\0214R_EBX_eab_13.dgn

2/26/03

BUCK PROJECT REFERENCE NO.	SHEET NO.
0214R	14
PROJECT ENGINEER	
THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY:	
KEVIN L. TWEEDY 027337 APRIL 4, 2006	
THIS MEDIA SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT	
BUCK ENGINEERING	8000 Regency Parkway Suite 200 Cary, North Carolina 27511 Phone: 919-463-5488 Fax: 919-463-5490



FILL EXISTING CHANNEL

CHANNEL BLOCK

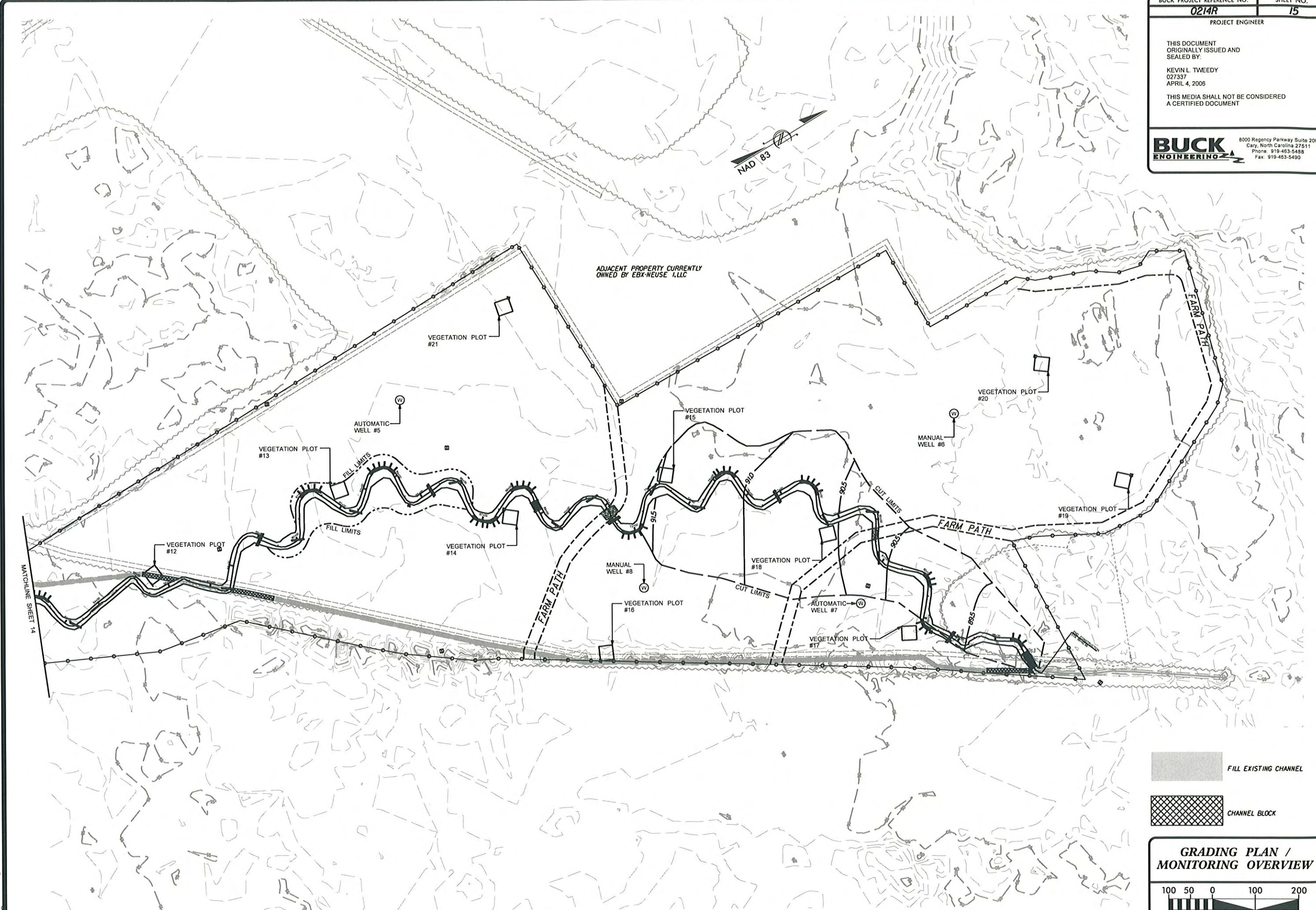
**GRADING PLAN /
MONITORING OVERVIEW**

100 50 0 100 200

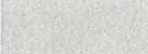

SCALE (FT)

2/26/03
 4/10/06
 4:\0214R\Design\as-buil\0214R_EBX_eab_14.dgn


BUCK PROJECT REFERENCE NO. 0214R	SHEET NO. 15
PROJECT ENGINEER	
THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY:	
KEVIN L. TWEEDY 027337 APRIL 4, 2006	
THIS MEDIA SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT	
	
<small>8000 Regency Parkway Suite 200 Cary, North Carolina 27511 Phone: 919-483-6488 Fax: 919-483-5490</small>	



MATCHLINE SHEET 14

	FILL EXISTING CHANNEL
	CHANNEL BLOCK

**GRADING PLAN /
MONITORING OVERVIEW**



SCALE (FT)

2/26/03

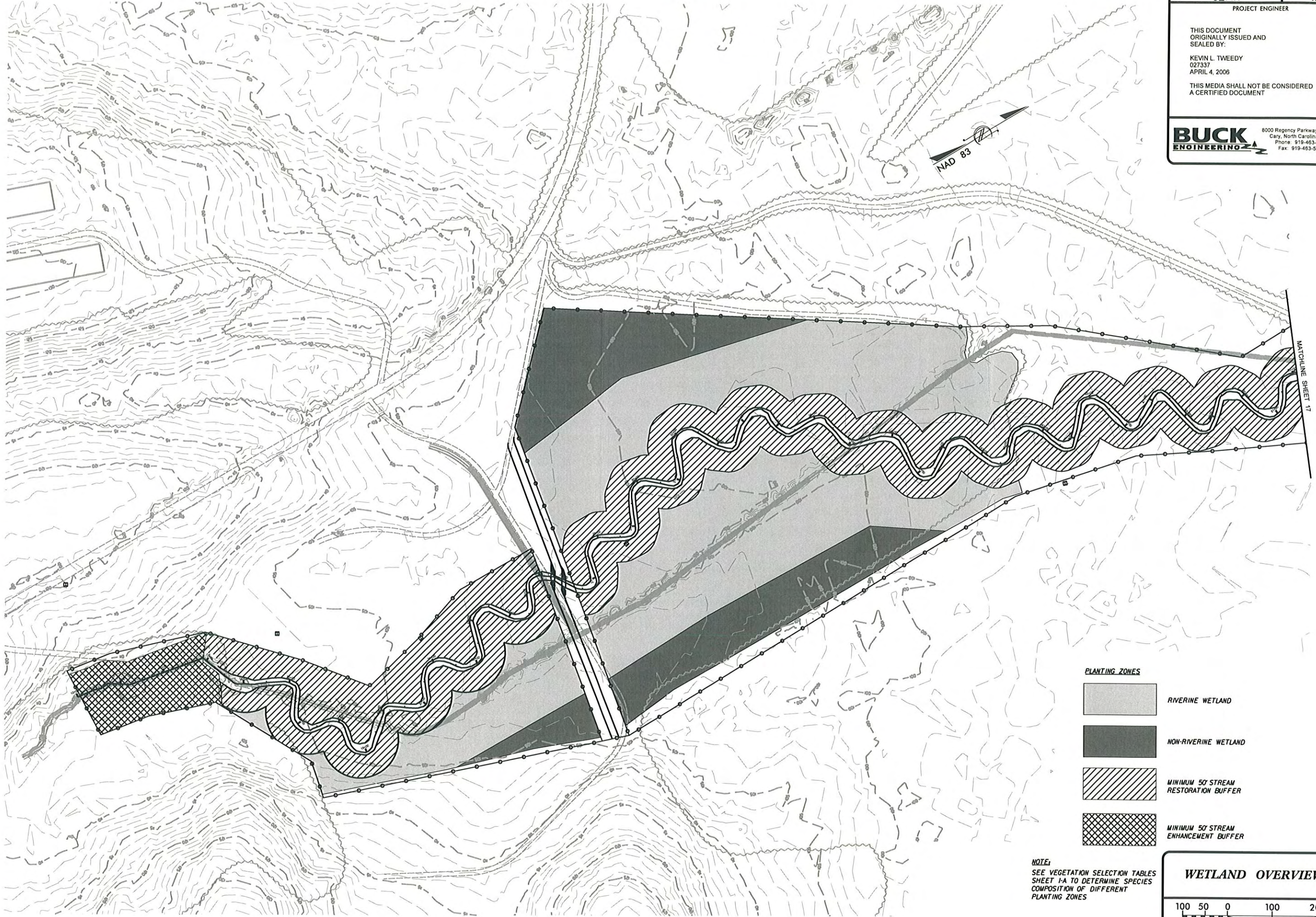
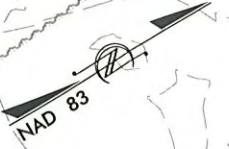
4/18/2006
C:\Users\krt\Documents\Design\as-built\0214R_EBX_esh_15.dgn

THIS DOCUMENT
ORIGINALLY ISSUED AND
SEALED BY:

KEVIN L. TWEEDY
027337
APRIL 4, 2006

THIS MEDIA SHALL NOT BE CONSIDERED
A CERTIFIED DOCUMENT

BUCK
ENGINEERING
8000 Regency Parkway Suite 200
Cary, North Carolina 27511
Phone: 919-463-5488
Fax: 919-463-5490



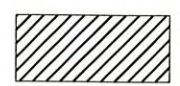
PLANTING ZONES



RIVERINE WETLAND



NON-RIVERINE WETLAND



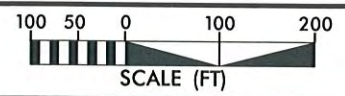
MINIMUM 50' STREAM
RESTORATION BUFFER



MINIMUM 50' STREAM
ENHANCEMENT BUFFER

NOTE:
SEE VEGETATION SELECTION TABLES
SHEET 1-A TO DETERMINE SPECIES
COMPOSITION OF DIFFERENT
PLANTING ZONES

WETLAND OVERVIEW

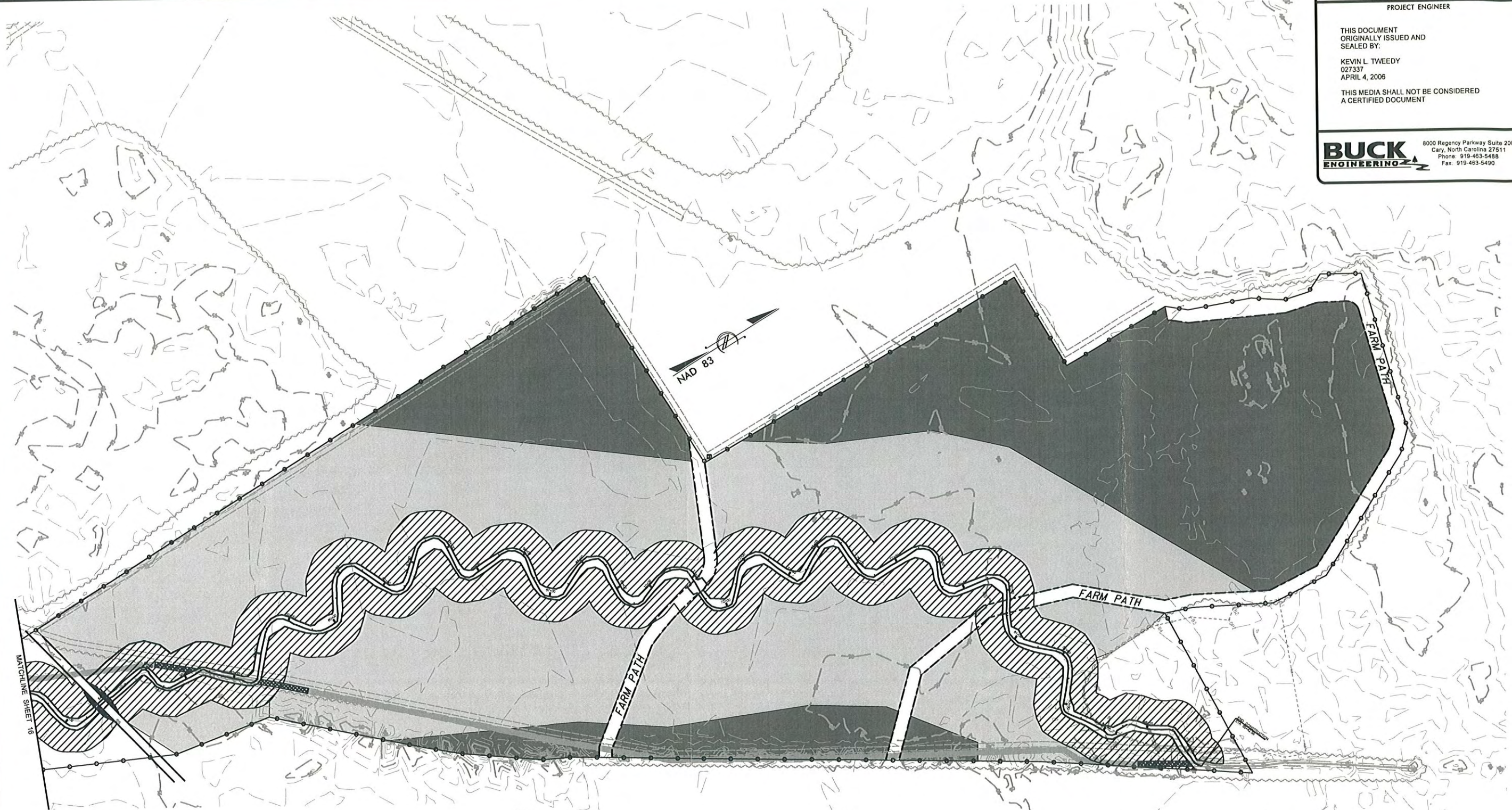


SCALE (FT)

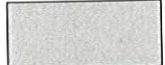

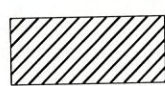
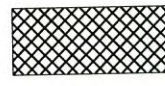
2/26/03

4/12/2006
F:\0214R\Design\as-built\0214R_EBX_esh_16.dgn

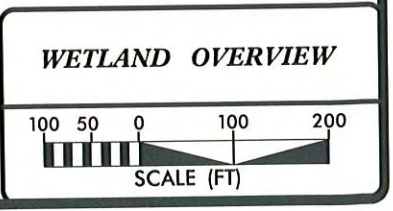
2/26/03



MATCHLINE SHEET 16

- PLANTING ZONES**
-  RIVERINE WETLAND
 -  NON-RIVERINE WETLAND
 -  MINIMUM 50' STREAM RESTORATION BUFFER
 -  MINIMUM 50' STREAM ENHANCEMENT BUFFER

NOTE:
SEE VEGETATION SELECTION TABLES
SHEET 1-A TO DETERMINE SPECIES
COMPOSITION OF DIFFERENT
PLANTING ZONES

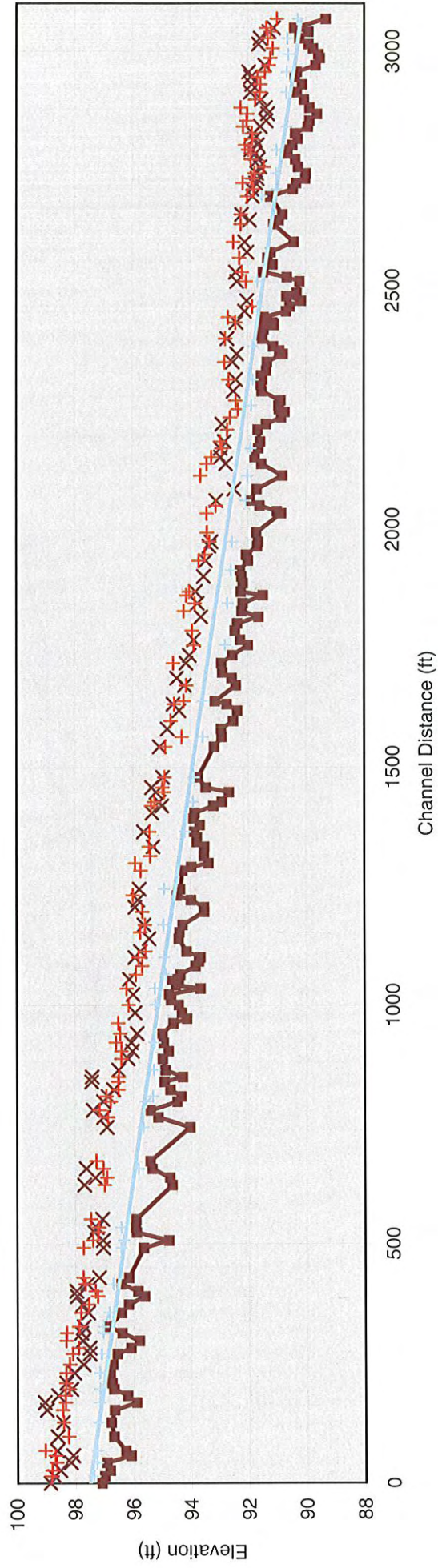


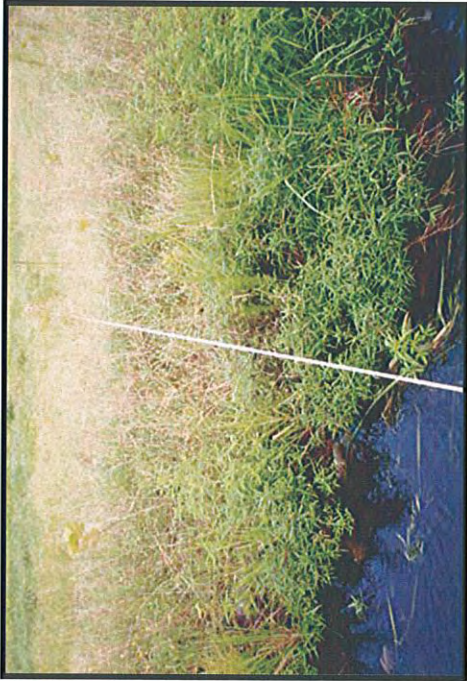
4/12/2006
P:\0214R\Design\es-bui1\0214R_EBX_esb-17.dgn

APPENDIX B

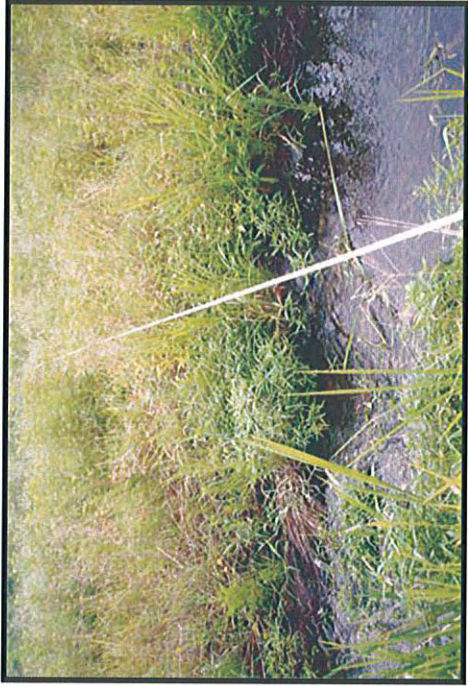
**2006 Profile and
Cross Section Data**

Cox 2006 Profile

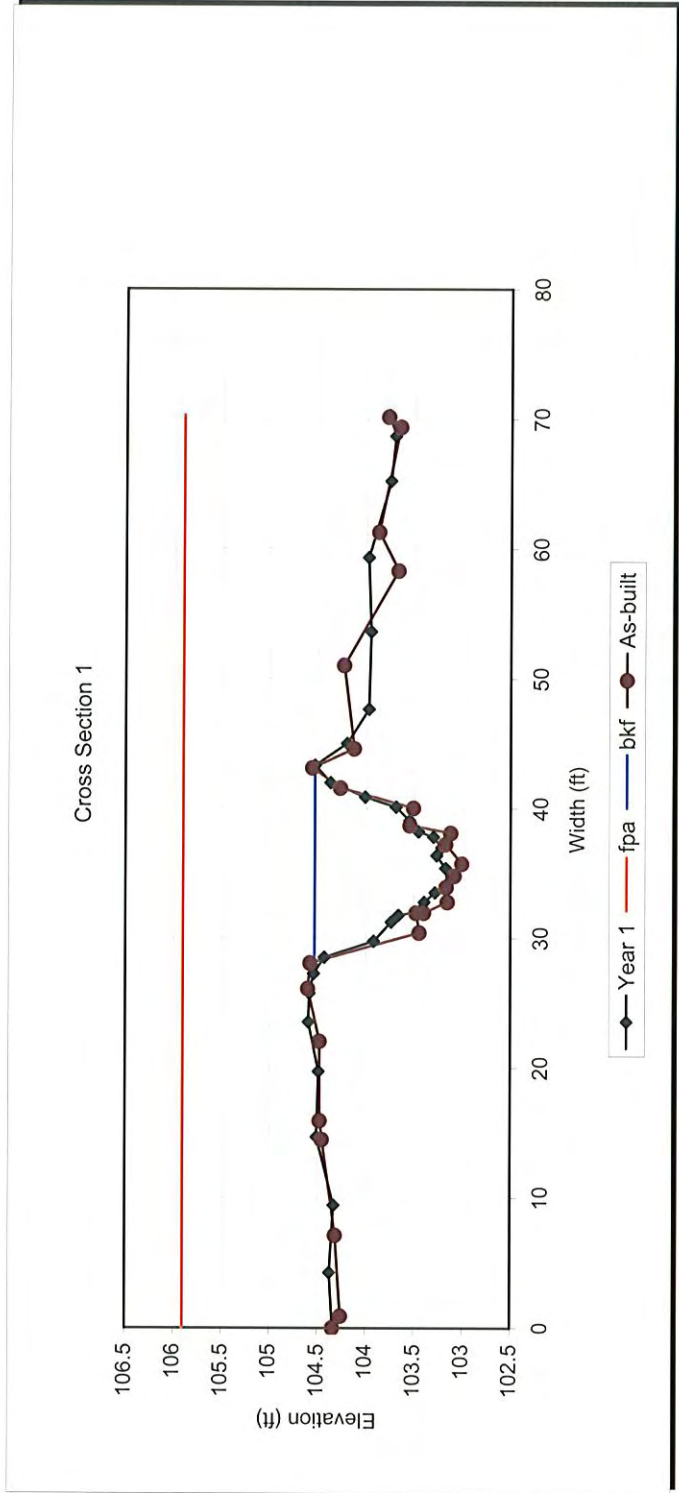




Looking at left bank.



Looking at right bank.

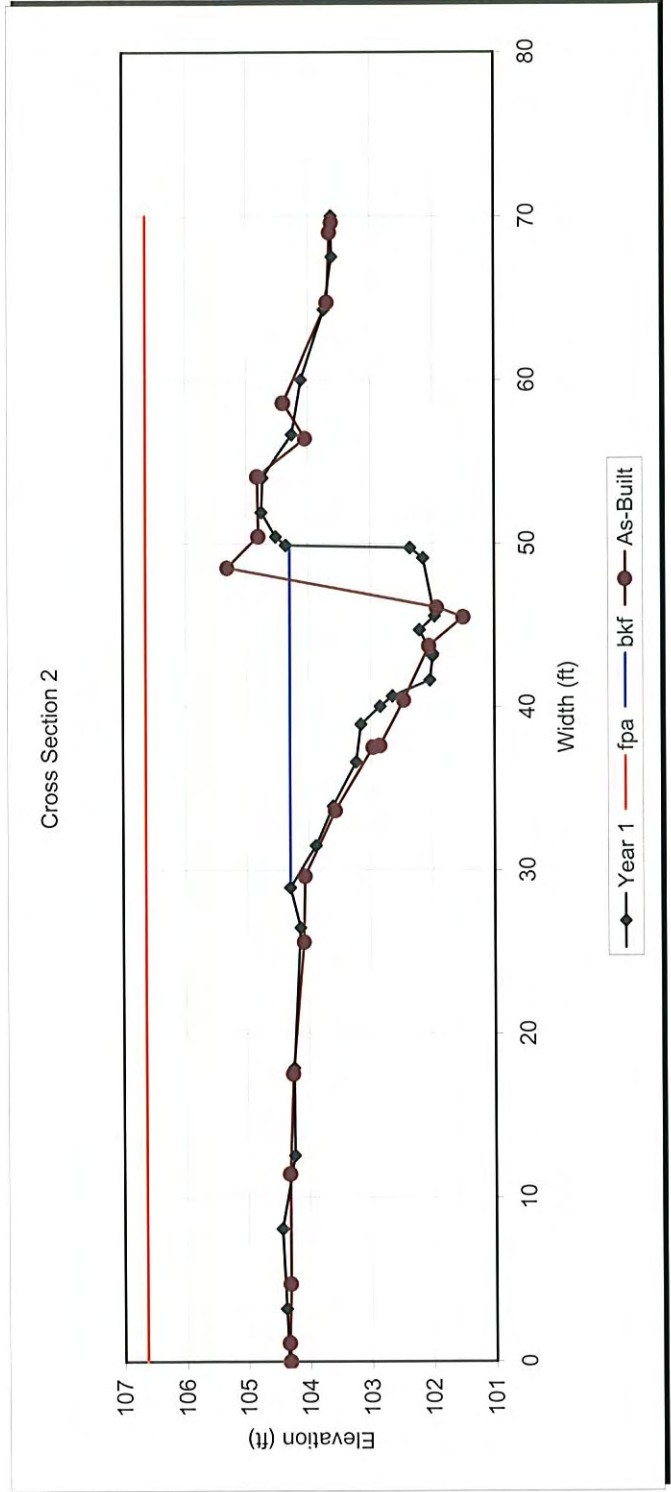


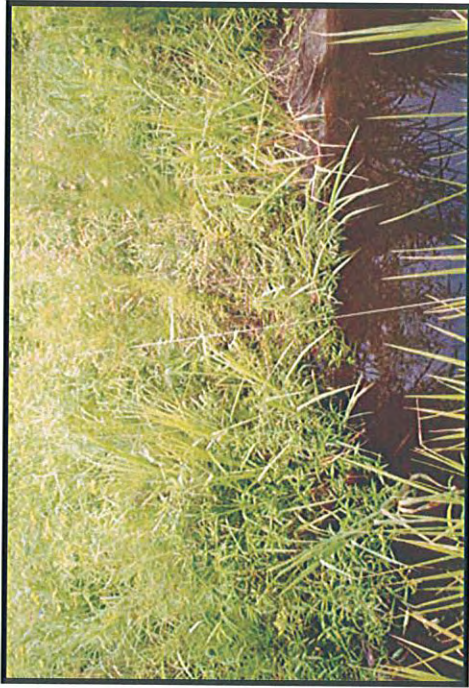


Looking at left bank.

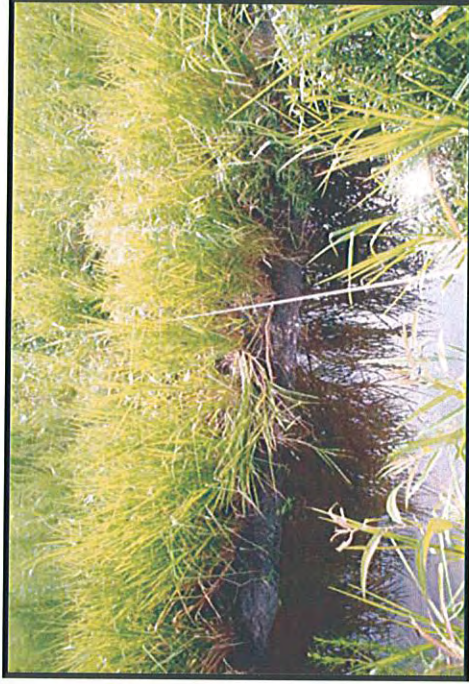


Looking at right bank.

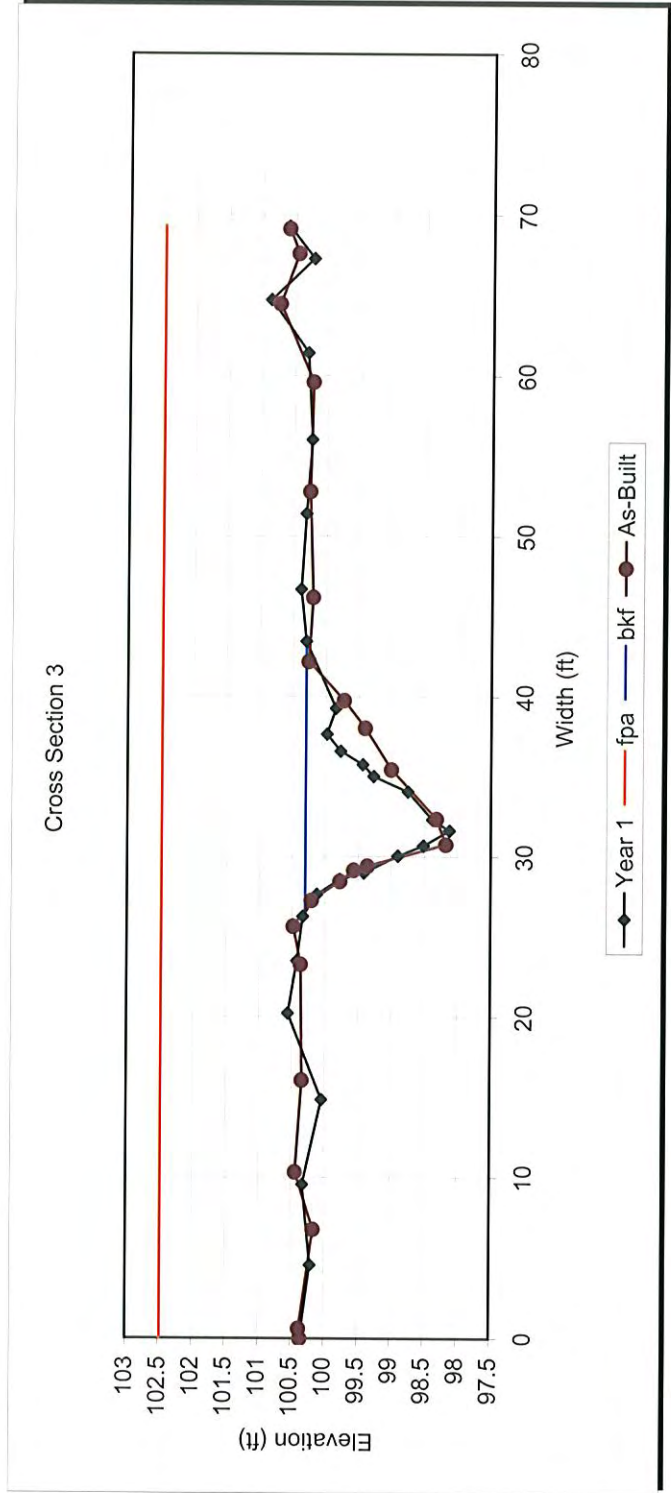


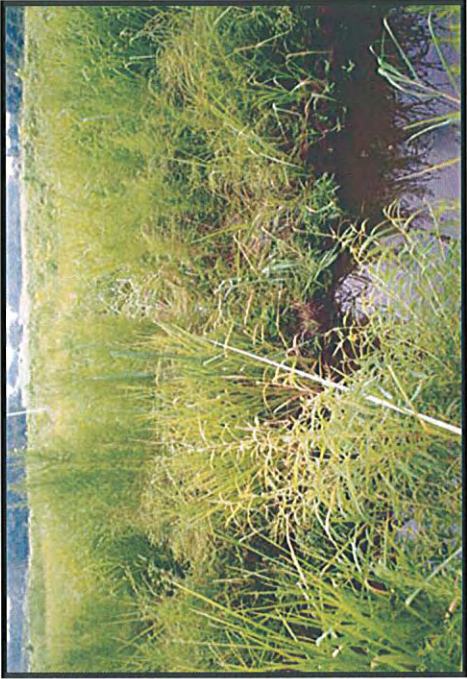


Looking at left bank.



Looking at right bank.

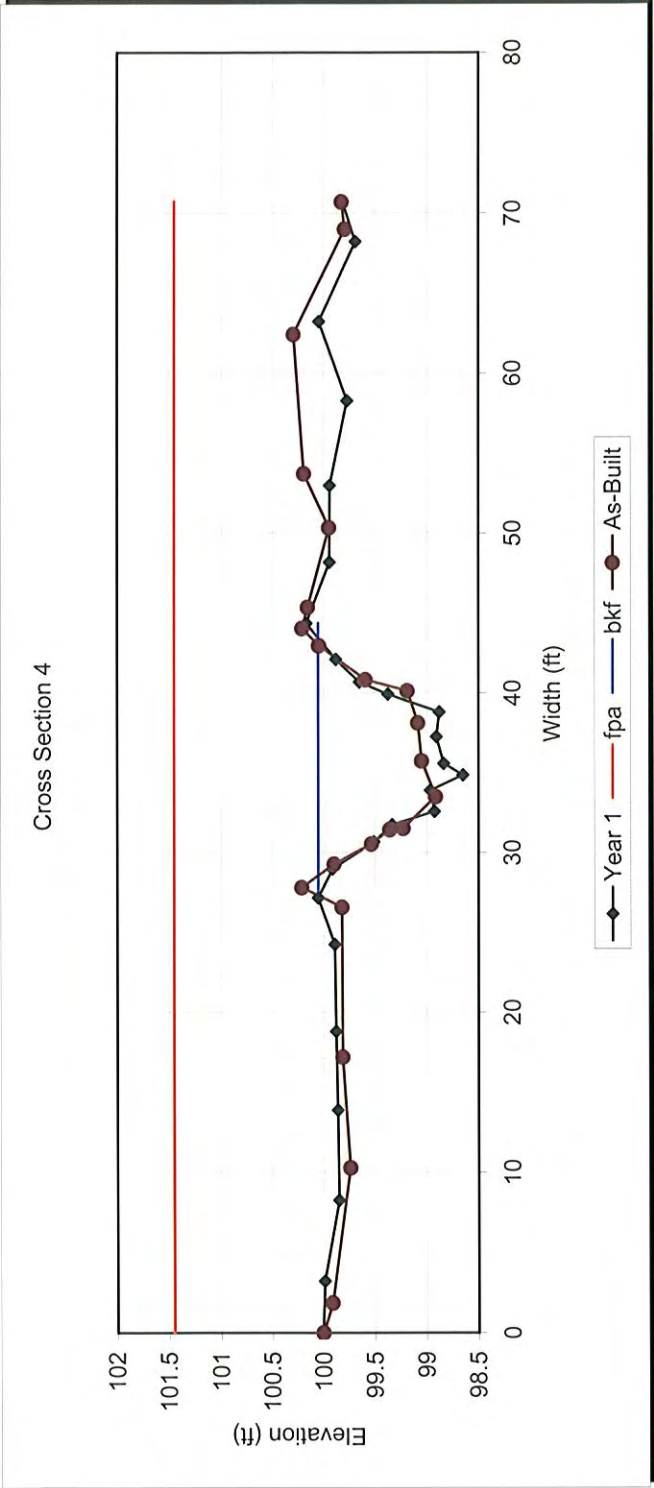




Looking at left bank.



Looking at right bank.

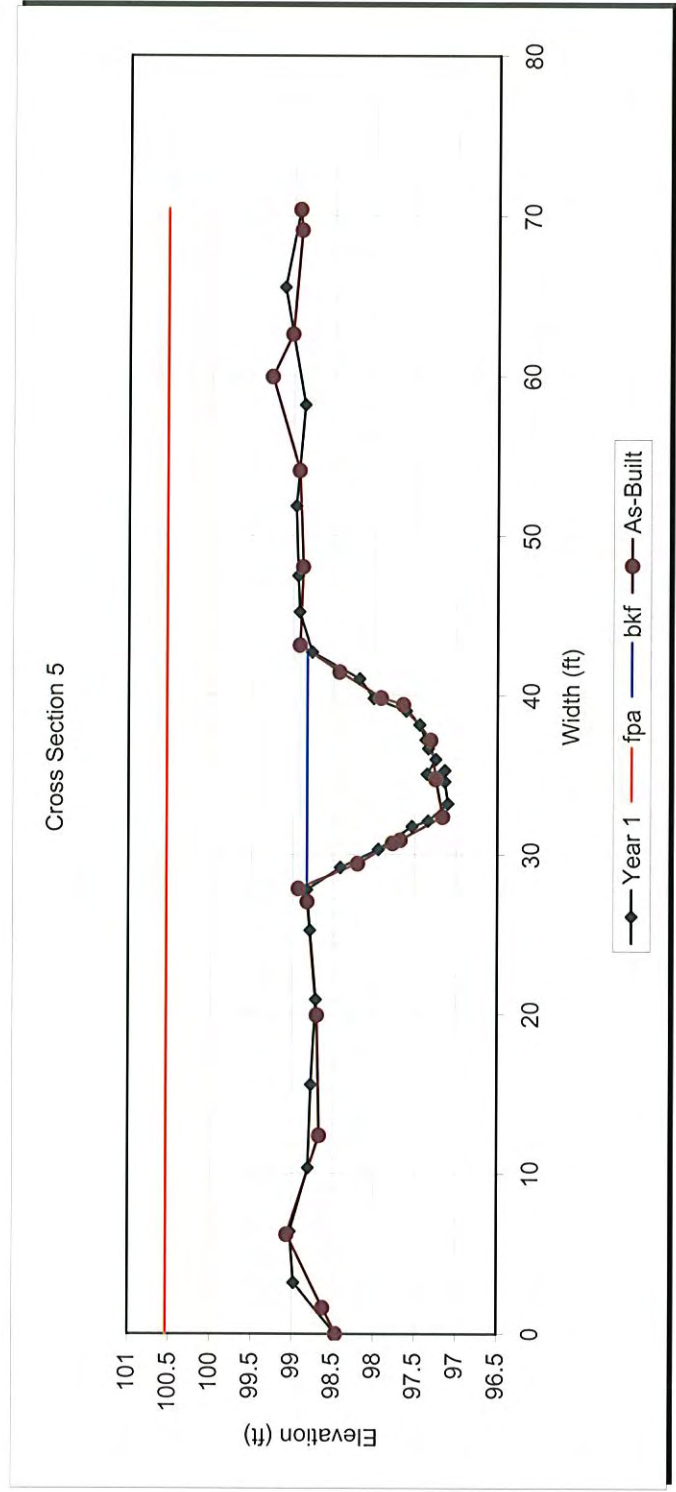




Looking at left bank.



Looking at right bank.

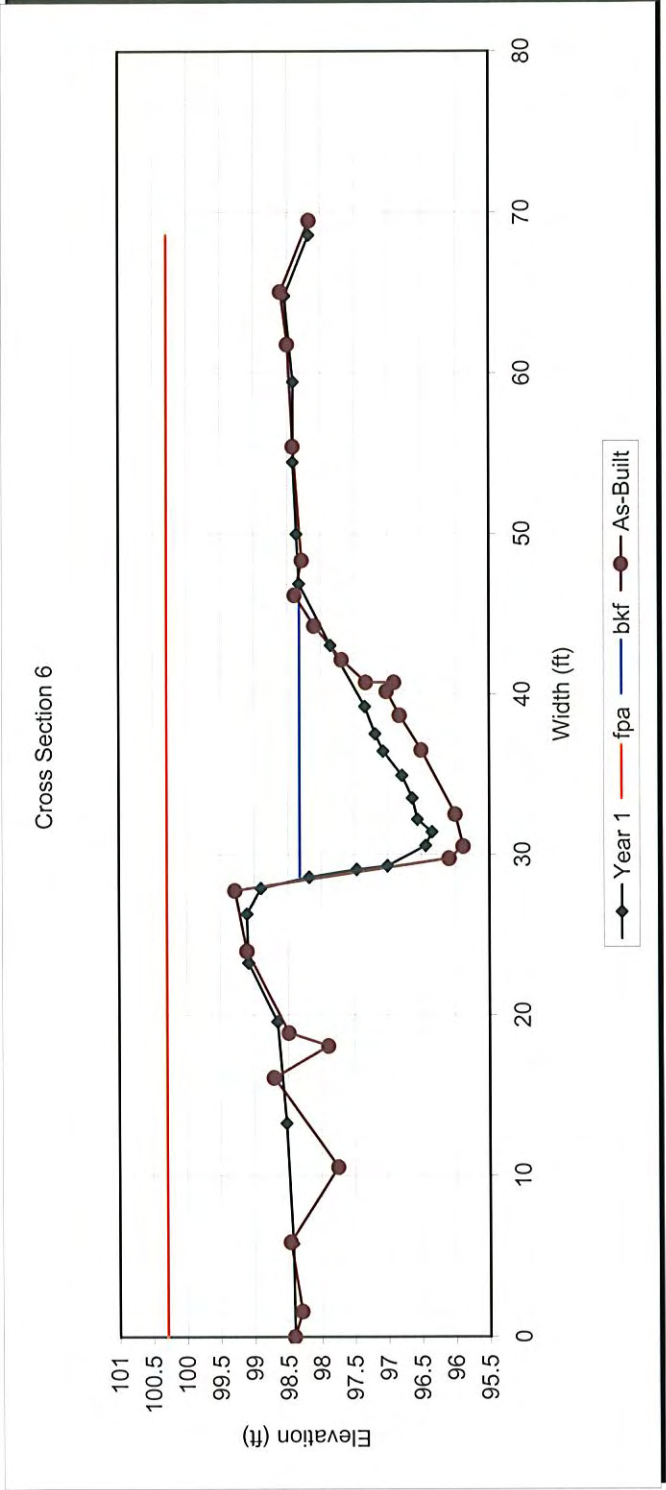


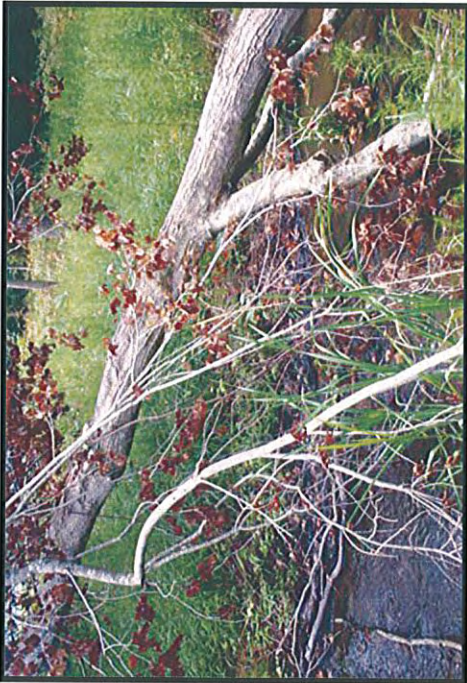


Looking at left bank.

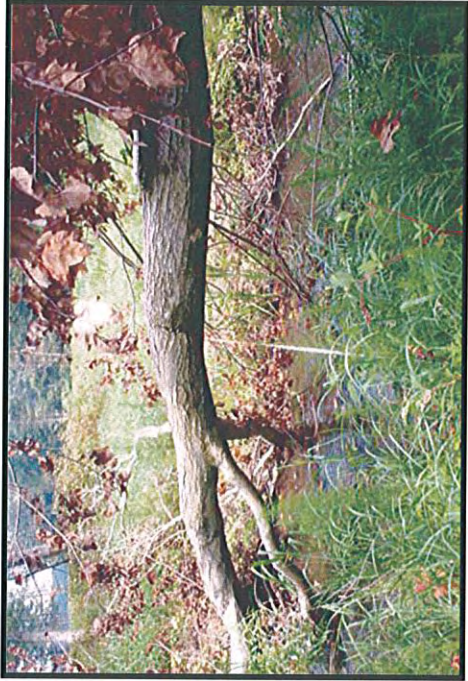


Looking at right bank.

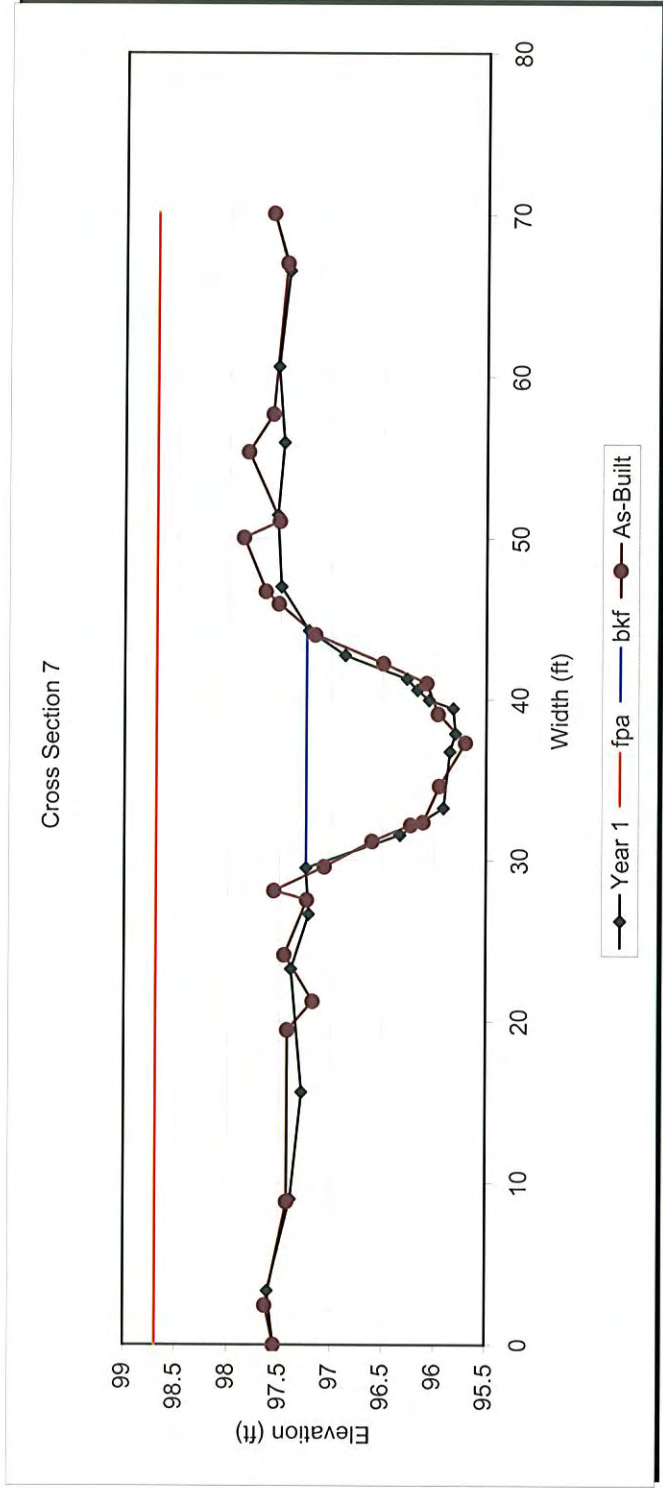


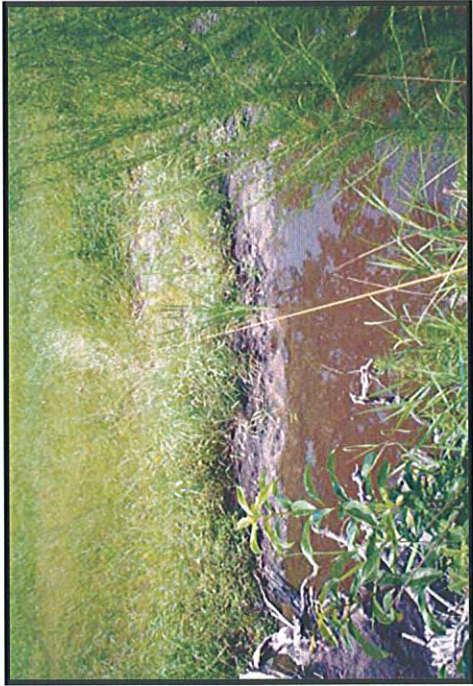


Looking at left bank.



Looking at right bank.

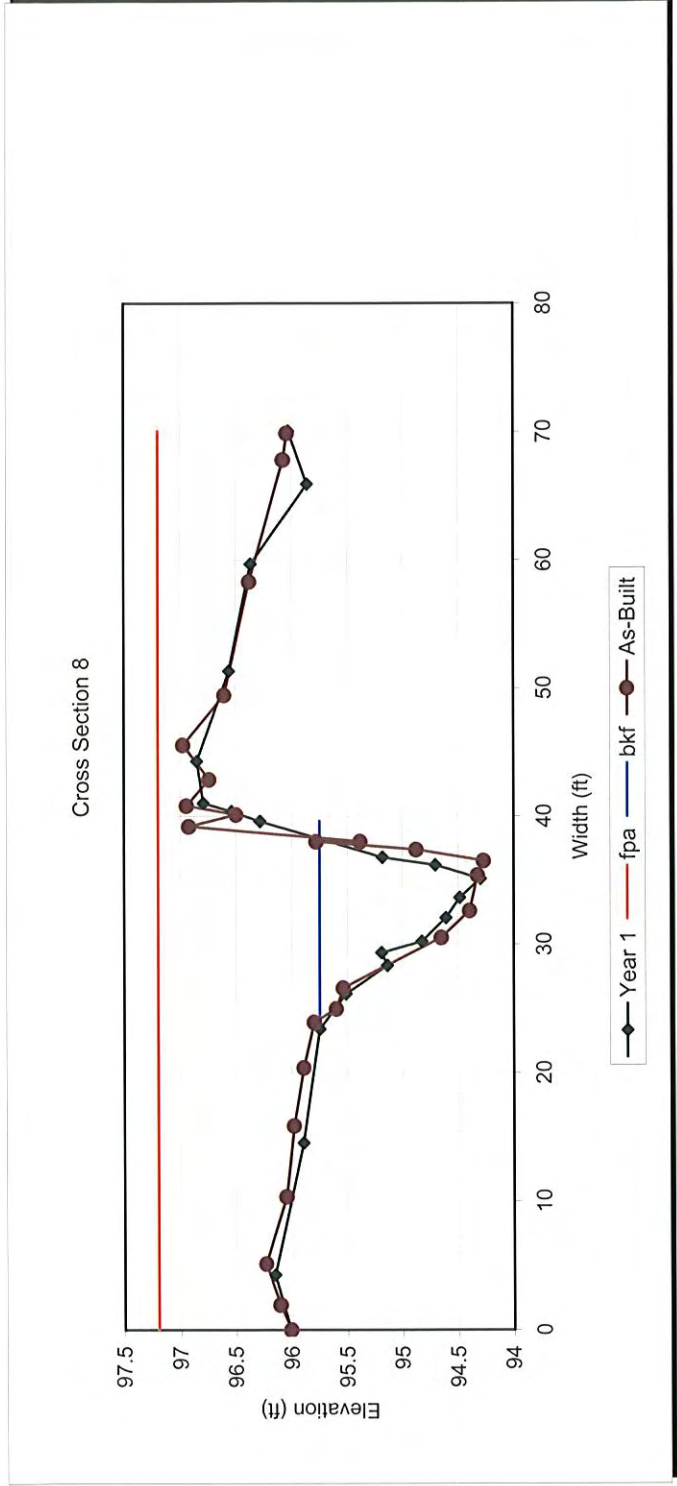




Looking at left bank.



Looking at right bank.

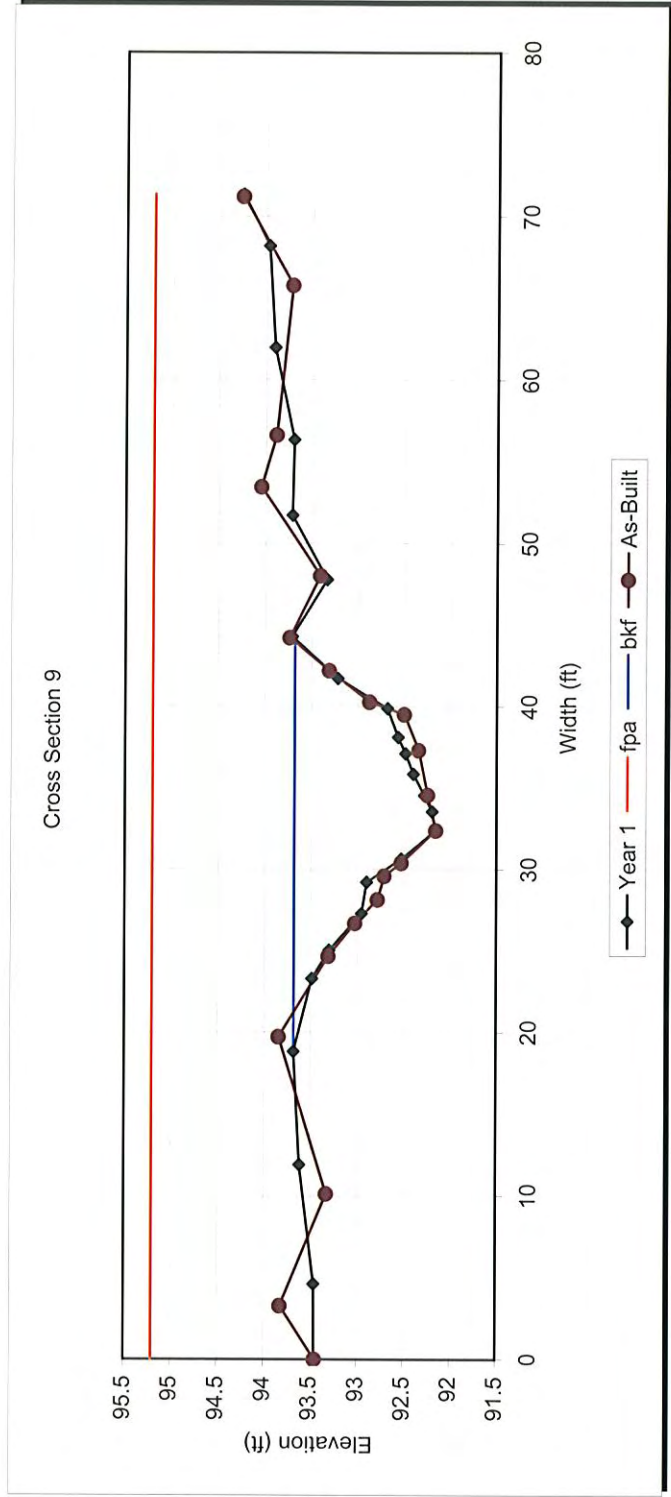




Looking at left bank.



Looking at right bank.

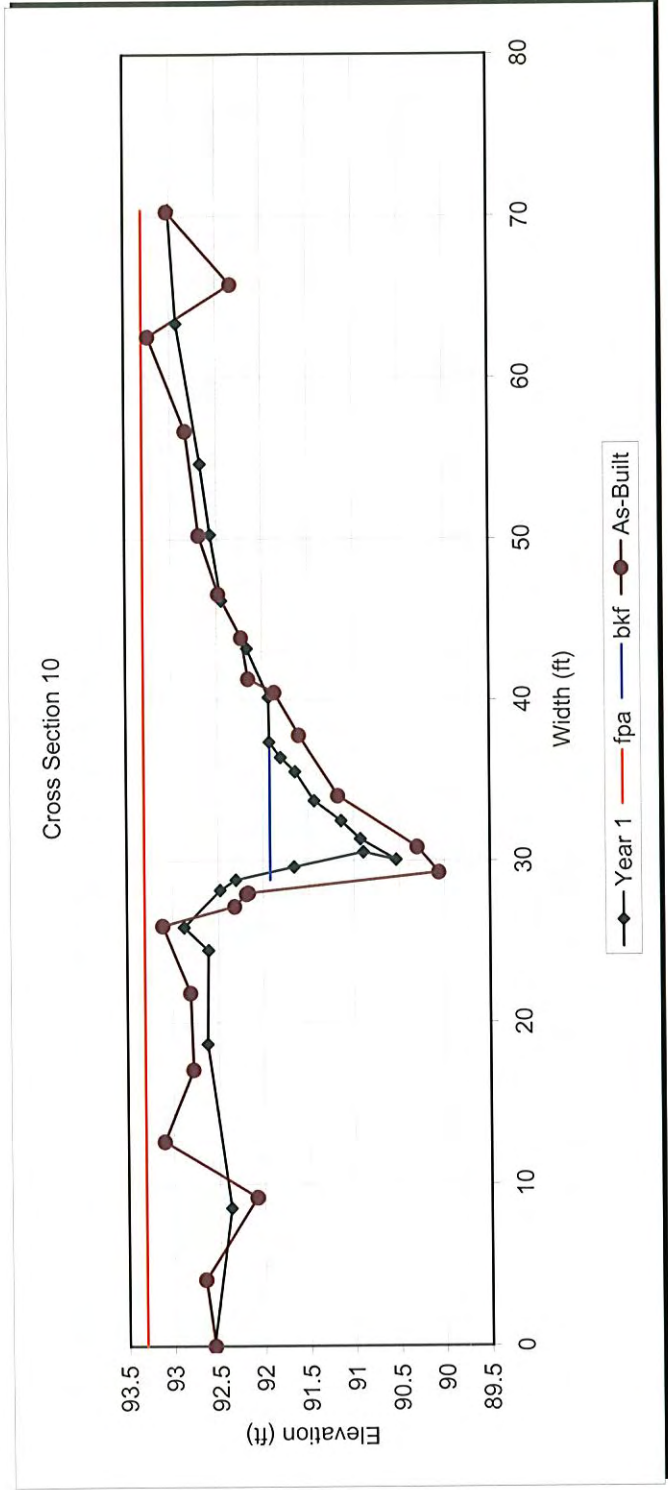




Looking at left bank.



Looking at right bank.

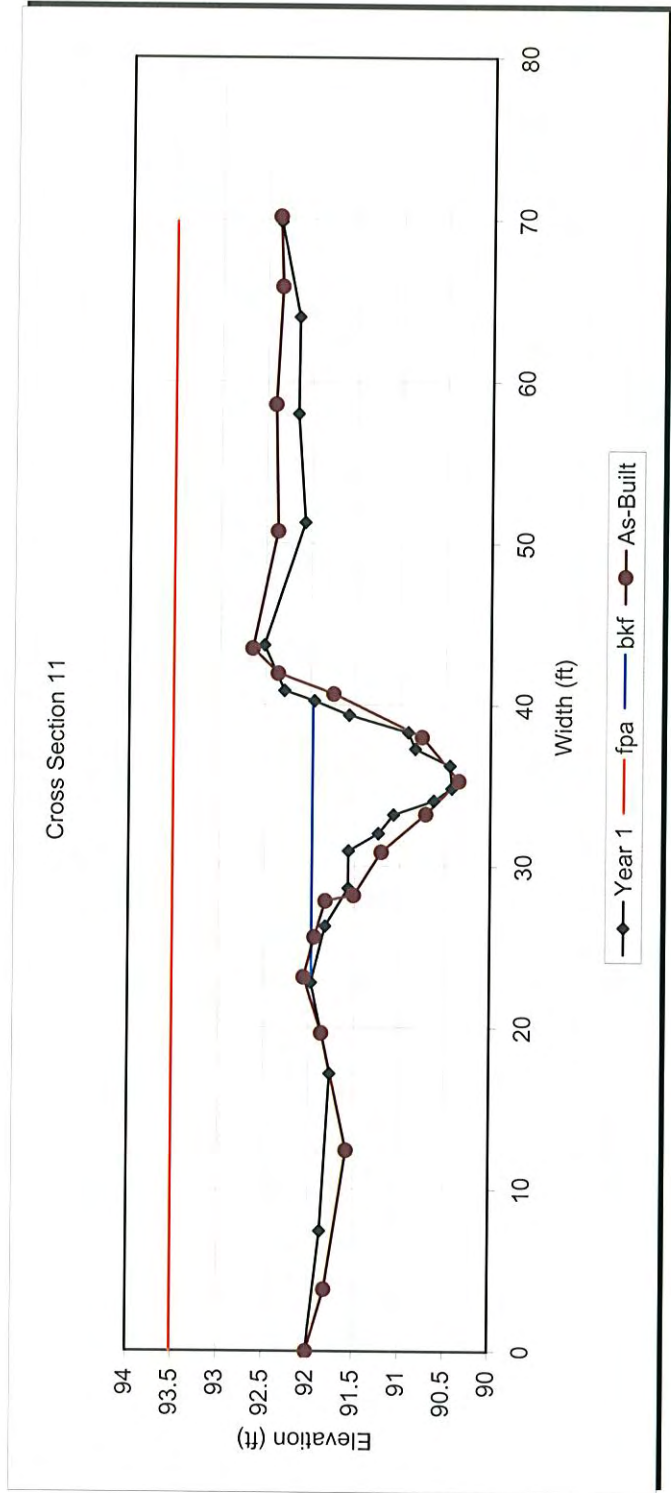




Looking at left bank.



Looking at right bank.

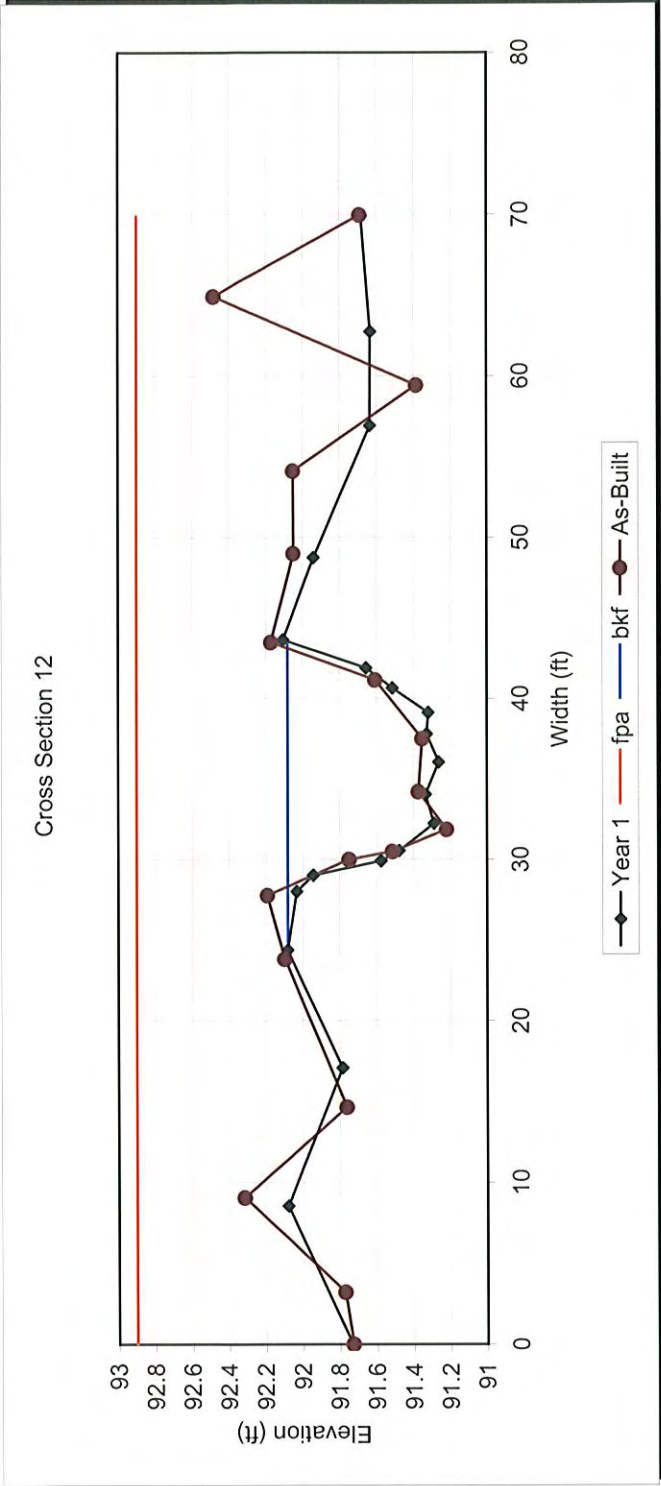


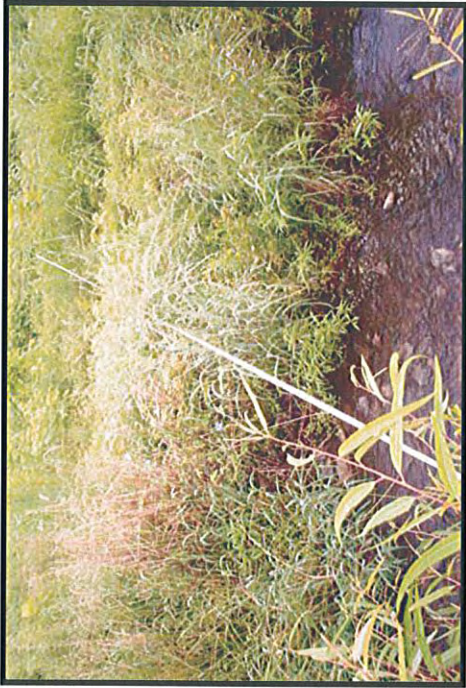


Looking at left bank.



Looking at right bank.

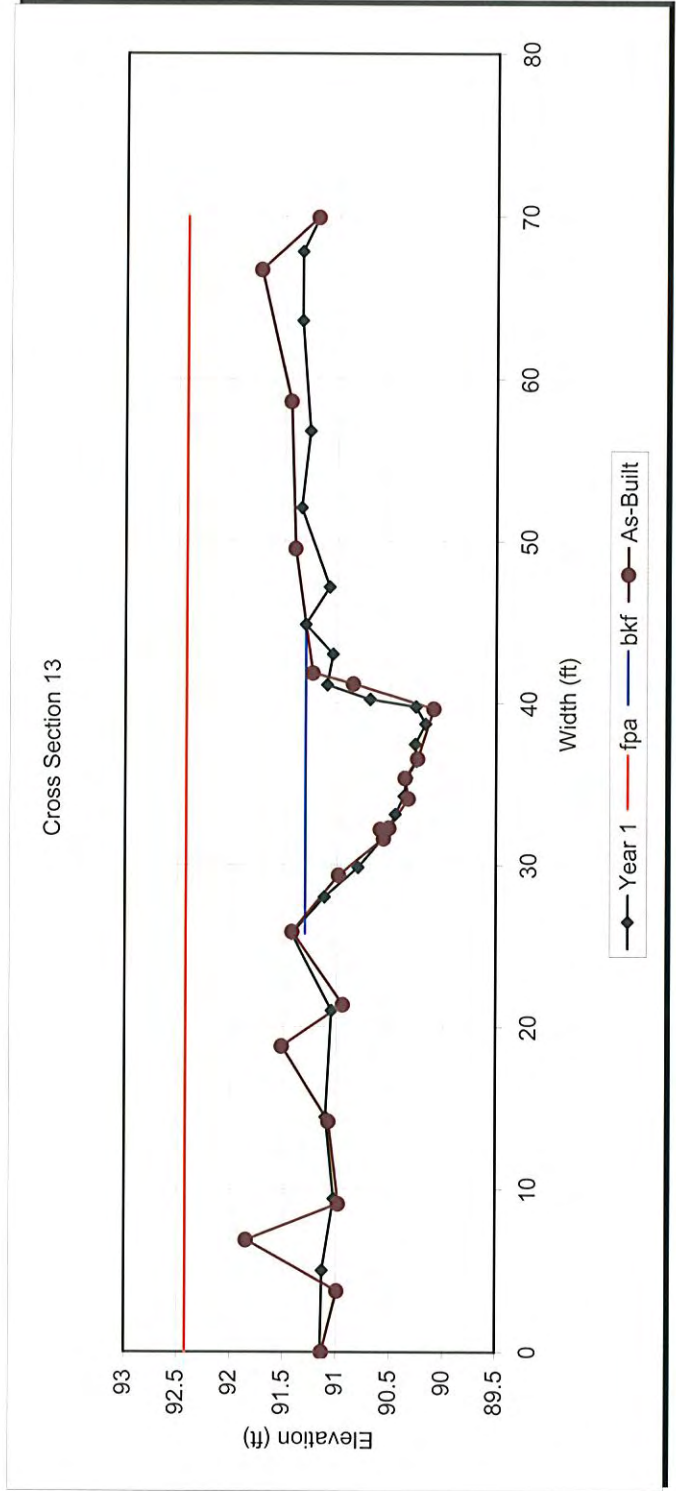




Looking at left bank.



Looking at right bank.

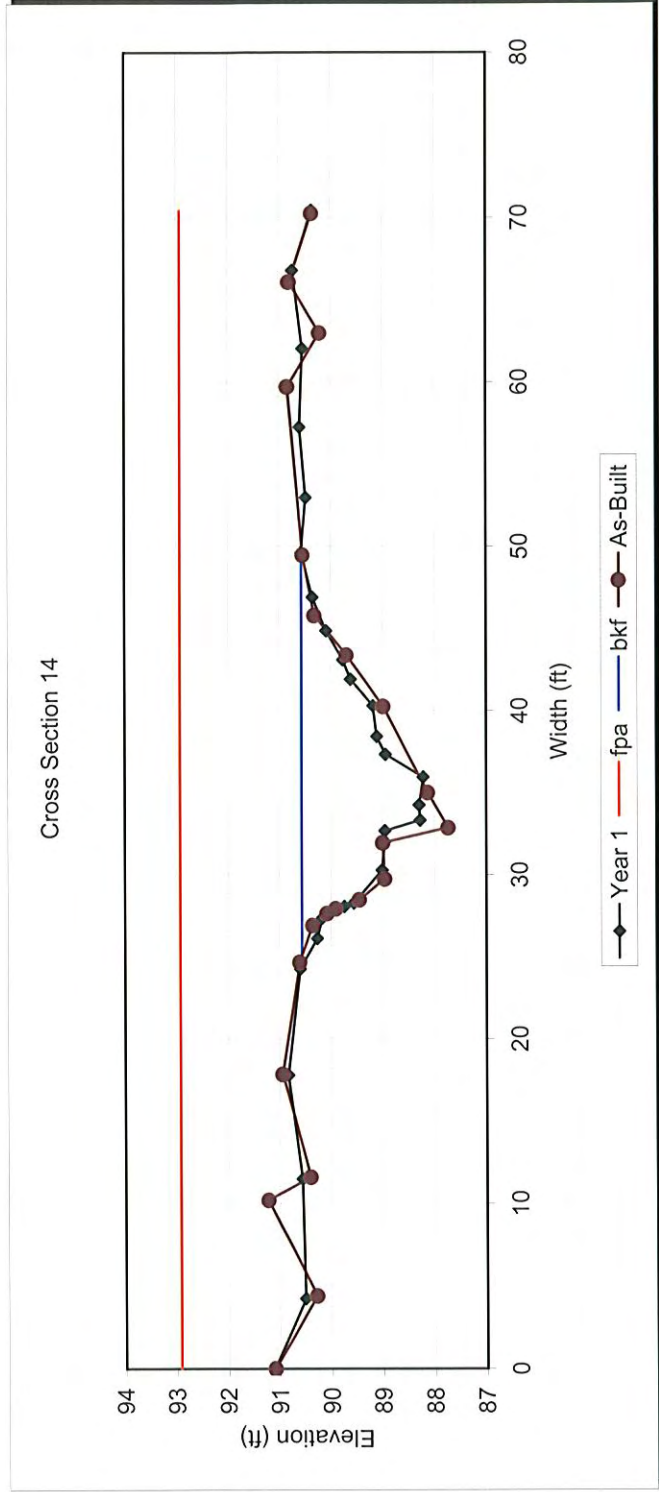




Looking at left bank.



Looking at right bank.

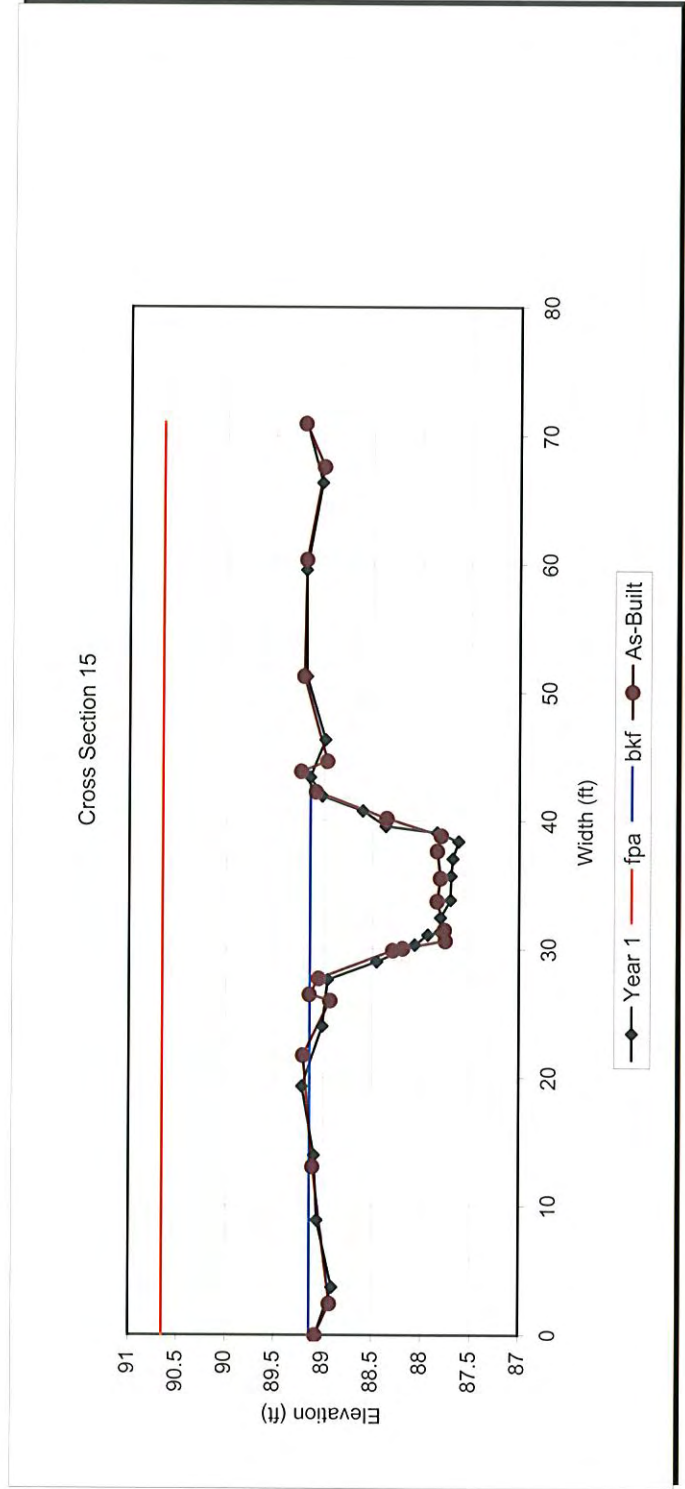




Looking at left bank.



Looking at right bank.

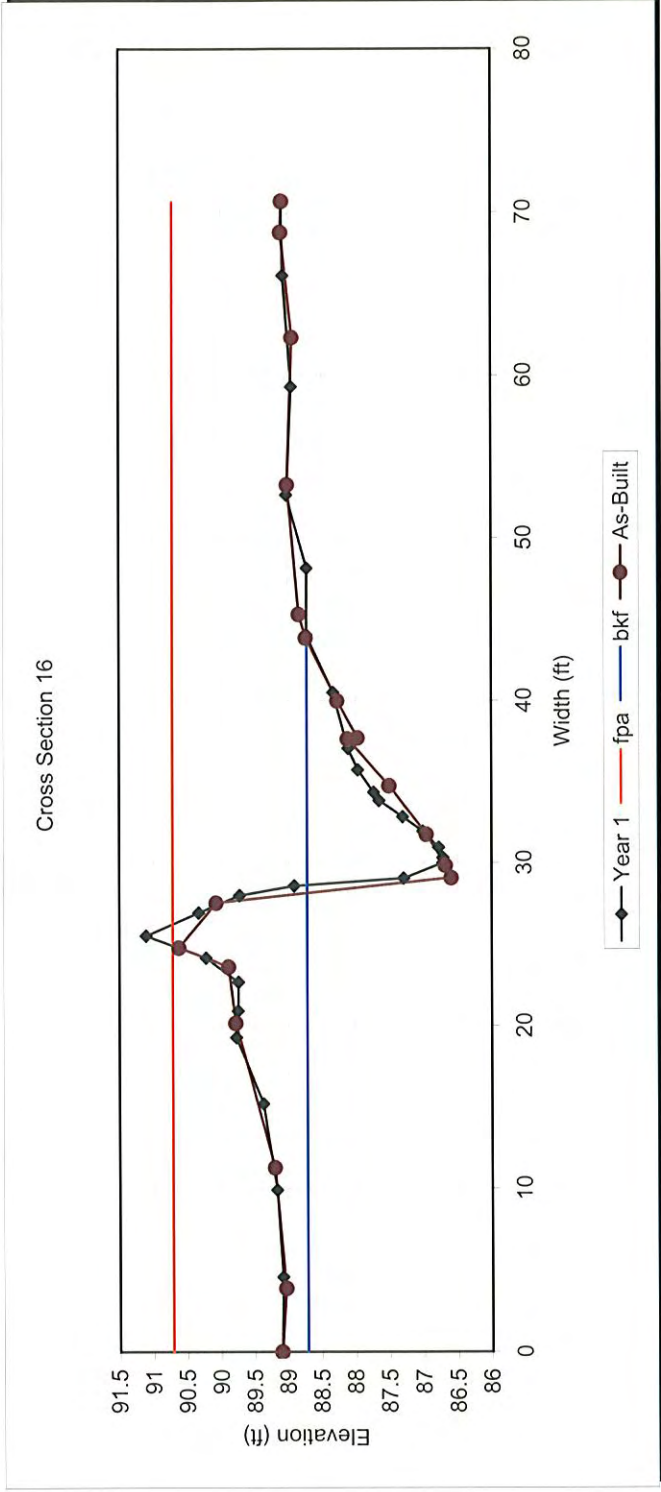




Looking at left bank.



Looking at right bank.



Cox 2006 Monitoring Data

Date	Time	AW1	MW2	AW3	MW4	AW5	MW6	AW7	MW8
01-Jan-2006	08:00:00	0.29		-12.52		-0.47		3.13	
01-Jan-2006	20:00:00	0.12		-12.98		-1.36		3.2	
02-Jan-2006	08:00:00	0.53		-13.21		-1.7		3.25	
02-Jan-2006	20:00:00	1.99		-10.13		3.04		3.92	
03-Jan-2006	08:00:00	1.94		-6.21		4.83		3.67	
03-Jan-2006	20:00:00	1.31		-7.49		2.94		3.38	
04-Jan-2006	08:00:00	1.15		-8.95		2.4		3.39	
04-Jan-2006	20:00:00	1.36		-7.97		2.09		3.5	
05-Jan-2006	08:00:00	1.2		-8.77		1.57		3.34	
05-Jan-2006	20:00:00	1.22		-8.39		0.92		3.4	
06-Jan-2006	08:00:00	1.26		-10.08		2.05		3.59	
06-Jan-2006	20:00:00	0.66		-10.87		0.87		3.4	
07-Jan-2006	08:00:00	-0.64		-12.49		-1.96		3.18	
07-Jan-2006	20:00:00	0.21		-12.56		-1.5		3.34	
08-Jan-2006	08:00:00	-0.22		-13.66		-3.04		3.11	
08-Jan-2006	20:00:00	-0.33		-13.75		-3.21		3.24	
09-Jan-2006	08:00:00	-0.16		-14.44		-3.45		3.25	
09-Jan-2006	20:00:00	-0.4		-14.63		-4.11		3	
10-Jan-2006	08:00:00	-0.45		-15.26		-4.42		3.07	
10-Jan-2006	20:00:00	-0.03		-14.84		-4.48		3.49	
11-Jan-2006	08:00:00	0.64		-14.39		-3.76		3.49	
11-Jan-2006	20:00:00	0.61		-13.58		-4.24		3.41	
12-Jan-2006	08:00:00	0.37		-14.59		-4.54		3.33	
12-Jan-2006	20:00:00	0.51		-14.4		-4.75		3.57	
13-Jan-2006	08:00:00	0.61		-14.84		-4.79		3.42	
13-Jan-2006	20:00:00	1.29		-12.8		-3.93		3.68	
14-Jan-2006	08:00:00	1.29		-11.8		-1.14		3.57	
14-Jan-2006	20:00:00	-0.35		-13.67		-4.24		3.17	
15-Jan-2006	08:00:00	-2.89		-15.93		-7.04		2.43	
15-Jan-2006	20:00:00	-1.78		-16.77		-6.58		2.66	
16-Jan-2006	08:00:00	-1.18		-17.21		-6.44		2.77	
16-Jan-2006	20:00:00	-1.13		-16.93		-6.73		2.87	
17-Jan-2006	08:00:00	-0.59		-17.64		-6.07		2.77	
17-Jan-2006	20:00:00	0.1		-16.28		-5.97		3.27	
18-Jan-2006	08:00:00	1.42		-8.97		1.81		4.02	
18-Jan-2006	20:00:00	-0.61		-15.8		-1.52		3.45	
19-Jan-2006	08:00:00	-0.86		-16.84		-3.34		3.11	
19-Jan-2006	20:00:00	-0.66		-16.33		-3.91		3.26	
20-Jan-2006	08:00:00	-0.86		-17.11		-4.62		3.18	
20-Jan-2006	20:00:00	-0.62		-16.56		-5.13		3.26	
21-Jan-2006	08:00:00	-0.34		-16.92		-5.19		2.89	
21-Jan-2006	20:00:00	1.16		-15.23		-0.69		3.7	
22-Jan-2006	08:00:00	0.28		-16.39		-3.46		3.6	
22-Jan-2006	20:00:00	0.55		-15.98		-4.24		3.61	
23-Jan-2006	08:00:00	1.11		-14.85		-3.55		3.54	
23-Jan-2006	20:00:00	1.44		-14.2		-2.1		3.9	
24-Jan-2006	08:00:00	1.55		-12.94		0.42		4.13	
24-Jan-2006	20:00:00	1.42		-11.86		-1.13		4.02	
25-Jan-2006	08:00:00	0.62		-13.5		-2.56		3.54	
25-Jan-2006	20:00:00	-1.38		-15.06		-5.45		3.17	
26-Jan-2006	08:00:00	-2.73		-16.7		-7.09		2.68	
26-Jan-2006	20:00:00	-2.69		-17.82		-7.08		2.61	
27-Jan-2006	08:00:00	-6.28		-18.83		-8.94		1.9	
27-Jan-2006	20:00:00	-1.08		-18.55		-6.49		2.88	
28-Jan-2006	08:00:00	-3.54		-18.75		-8.88		2.26	
28-Jan-2006	20:00:00	-0.55		-17.88		-6.83		2.95	
29-Jan-2006	08:00:00	0.4		-17.12		-6.05		2.96	
29-Jan-2006	20:00:00	0.63		-16.31		-5.98		3.33	
30-Jan-2006	08:00:00	0.49		-16.62		-5.96		3.26	
30-Jan-2006	20:00:00	0.92		-15.85		-5.96		3.2	
31-Jan-2006	08:00:00	1.19		-16.22		-0.93		3.68	

Cox 2006 Monitoring Data

Date	Time	AW1	MW2	AW3	MW4	AW5	MW6	AW7	MW8
31-Jan-2006	20:00:00	-0.4		-17.19		-5.15		3.42	
01-Feb-2006	08:00:00	-0.81		-18.24		-6.48		3.05	
01-Feb-2006	20:00:00	-0.64		-18.12		-6.68		2.95	
02-Feb-2006	08:00:00	-0.71		-18.55		-6.99		2.89	
02-Feb-2006	20:00:00	0.25		-17.59		-6.41		3.5	
03-Feb-2006	08:00:00	0.49		-17.44		-5.54		3.4	
03-Feb-2006	20:00:00	-0.11		-17.93		-6.96		3.22	
04-Feb-2006	08:00:00	0.69		-17.51		-5.97		3.62	
04-Feb-2006	20:00:00	0.65		-16.79		-5.05		3.37	
05-Feb-2006	08:00:00	-0.97		-18.69		-7.44		2.83	
05-Feb-2006	20:00:00	-3.04		-19.9		-9.02		1.97	
06-Feb-2006	08:00:00	-3.42		-20.97		-9.52		1.56	
06-Feb-2006	20:00:00	-2.4		-20.99		-8.94		2.11	
07-Feb-2006	08:00:00	-0.48		-21.03		-6.66		2.85	
07-Feb-2006	20:00:00	-1.98		-21.03		-8.84		2.37	
08-Feb-2006	08:00:00	-4.73		-21.62		-10.26		1.2	
08-Feb-2006	20:00:00	-1.66		-21.23		-8.77		2.31	
09-Feb-2006	08:00:00	-2.12		-21.89		-9.51		1.65	
09-Feb-2006	20:00:00	-3.32		-22.3		-10.03		1.28	
10-Feb-2006	08:00:00	-8.09		-22.84		-11.35		-0.14	
10-Feb-2006	20:00:00	-1.7		-22.11		-9.24		1.78	
11-Feb-2006	08:00:00	-0.17		-21.64		-8.05		2.38	
11-Feb-2006	20:00:00	1.64		-19.51		-1.19		4	
12-Feb-2006	08:00:00	0.53		-19.41		-3.71		3.62	
12-Feb-2006	20:00:00	-0.64		-20.39		-6.04		3.26	
13-Feb-2006	08:00:00	-3.94		-21.52		-8.9		1.9	
13-Feb-2006	20:00:00	-1.33		-21.68		-7.48		2.73	
14-Feb-2006	08:00:00	-4.13		-22.4		-9.58		1.94	
14-Feb-2006	20:00:00	-1.83		-22.49		-8.53		2.74	
15-Feb-2006	08:00:00	-2		-22.97		-8.77		2.15	
15-Feb-2006	20:00:00	-2.33		-22.66		-9.48		2.36	
16-Feb-2006	08:00:00	-1.91		-23.1		-9.22		2.01	
16-Feb-2006	20:00:00	-1.89		-22.35		-9.6		2.4	
17-Feb-2006	08:00:00	-0.87		-22.22		-8.73		2.43	
17-Feb-2006	20:00:00	-2.17		-22.35		-9.92		1.91	
18-Feb-2006	08:00:00	-2.25		-22.98		-9.84		1.44	
18-Feb-2006	20:00:00	-1.86		-23.39		-9.62		1.51	
19-Feb-2006	08:00:00	-6.15		-24.4		-11.43		-0.1	
19-Feb-2006	20:00:00	-2.99		-23.94		-10.46		1.02	
20-Feb-2006	08:00:00	-1.51		-23.75		-9.53		1.38	
20-Feb-2006	20:00:00	-1.36		-23.38		-9.67		1.7	
21-Feb-2006	08:00:00	-1.05		-23.57		-9.43		1.57	
21-Feb-2006	20:00:00	-2.12		-23.67		-10.42		1.33	
22-Feb-2006	08:00:00	-1.32		-23.82		-9.86		1.24	
22-Feb-2006	20:00:00	0.4		-23.26		-6.2		3.15	
23-Feb-2006	08:00:00	1.52		-21.2		-0.01		4.03	
23-Feb-2006	20:00:00	0.37		-20.19		-2.68		3.79	
24-Feb-2006	08:00:00	-0.42		-21.02		-4.52		3.21	
24-Feb-2006	20:00:00	-1.62		-21.63		-6.46		3.26	
25-Feb-2006	08:00:00	-1.34		-21.86		-6.72		3.07	
25-Feb-2006	20:00:00	-0.55		-20.98		-6.49		3.2	
26-Feb-2006	08:00:00	-2.68		-22.02		-7.85		2.5	
26-Feb-2006	20:00:00	-4.43		-22.84		-9.09		2.14	
27-Feb-2006	08:00:00	-8.22		-23.65		-10.85		0.91	
27-Feb-2006	20:00:00	-3.31		-22.93		-8.96		2.38	
28-Feb-2006	08:00:00	-3.12		-23.29		-9.04		1.93	
28-Feb-2006	20:00:00	-3.8		-23.21		-9.84		1.91	
01-Mar-2006	08:00:00	-3.01		-23.8		-9.41		1.7	
01-Mar-2006	20:00:00	-3.8		-23.75		-10.16		1.8	
02-Mar-2006	08:00:00	-2.07		-23.48		-9.17		2.11	
02-Mar-2006	20:00:00	-4.65		-23.18		-10.65		1.29	

Cox 2006 Monitoring Data

Date	Time	AW1	MW2	AW3	MW4	AW5	MW6	AW7	MW8
03-Mar-2006	08:00:00	-6.17		-25.15		-11.19		-0.42	
03-Mar-2006	20:00:00	-7.8		-25.54		-11.77		-0.86	
04-Mar-2006	08:00:00	-7.61		-26.26		-12.09		-1.67	
04-Mar-2006	20:00:00	-8.13		-26.33		-12.08		-1.21	
05-Mar-2006	08:00:00	-7.5		-27		-12.29		-1.87	
05-Mar-2006	20:00:00	-7.3		-26.66		-12.01		-1	
06-Mar-2006	08:00:00	-4.17		-26.4		-10.97		-0.26	
06-Mar-2006	20:00:00	-2.88		-26.46		-10.02		1.21	
07-Mar-2006	08:00:00	-4.24		-27.28		-10.96		0.06	
07-Mar-2006	20:00:00	-6.66		-27.48		-12.11		-0.63	
08-Mar-2006	08:00:00	-6.71		-27.92		-12.39		-1.78	
08-Mar-2006	20:00:00	-6.1		-27.42		-12.01		-0.77	
09-Mar-2006	08:00:00	-5.34		-27.62		-11.71		-0.98	
09-Mar-2006	20:00:00	-6.91		-27.37		-12.18		-0.95	
10-Mar-2006	08:00:00	-5.11		-27.89		-11.72		-0.83	
10-Mar-2006	20:00:00	-6.96		-28.29		-12.4		-1.44	
11-Mar-2006	08:00:00	-6.43		-28.93		-12.33		-1.85	
11-Mar-2006	20:00:00	-3.05		-28.7		-11.99		-1	
12-Mar-2006	08:00:00	-2.56		-28.56		-11.43		-0.31	
12-Mar-2006	20:00:00	-4.33		-27.93		-12.01		-0.58	
13-Mar-2006	08:00:00	-3.41		-28		-11.55		-0.6	
13-Mar-2006	20:00:00	-5.31		-27.14		-12.05		-0.94	
14-Mar-2006	08:00:00	-4		-27.22		-11.6		-0.99	
14-Mar-2006	20:00:00	-10.64		-28.88		-13.35		-3.89	
15-Mar-2006	08:00:00	-10.59		-29.92		-13.77		-4.64	
15-Mar-2006	20:00:00	-11.95		-29.94		-13.97		-4.34	
16-Mar-2006	08:00:00	-9.93		-30.4		-13.82		-4.29	
16-Mar-2006	20:00:00	-10.65		-30.12		-13.85		-3.75	
17-Mar-2006	08:00:00	-8.62		-30.17		-13.53		-3.54	
17-Mar-2006	20:00:00	-11.98		-30.93		-14.27		-4.36	
18-Mar-2006	08:00:00	-11.1		-31.56		-14.42		-4.9	
18-Mar-2006	20:00:00	-12.4		-31.34		-14.46		-4.53	
19-Mar-2006	08:00:00	-11.68		-32.05		-14.77		-5.23	
19-Mar-2006	20:00:00	-12.21		-31.82		-14.69		-4.52	
20-Mar-2006	08:00:00	-11.37		-32.35		-14.8		-4.93	
20-Mar-2006	20:00:00	-4.37		-32.13		-13.67		-2.56	
21-Mar-2006	08:00:00	1.09		-27.4		4.92		3.59	
21-Mar-2006	20:00:00	1.1		-23.83		3.04		3.75	
22-Mar-2006	08:00:00	-0.04		-23.86		1.44		3.17	
22-Mar-2006	20:00:00	-1.42		-23.76		-1.77		2.91	
23-Mar-2006	08:00:00	-2.46		-24.47		-3.31		2.5	
23-Mar-2006	20:00:00	-2.31		-24.01		-4.58		2.98	
24-Mar-2006	08:00:00	-1.64		-23.87		-4.85		3.01	
24-Mar-2006	20:00:00	-2.81		-24.03		-6.08		2.76	
25-Mar-2006	08:00:00	-3.24		-24.54		-6.55		2.57	
25-Mar-2006	20:00:00	-1.88		-25.02		-5.68		2.77	
26-Mar-2006	08:00:00	-3.14		-25.45		-7.31		2.41	
26-Mar-2006	20:00:00	-4.96		-25.92		-8.44		2.11	
27-Mar-2006	08:00:00	-5.72		-26.69		-8.93		1.63	
27-Mar-2006	20:00:00	-6.11		-26.55		-9.5		2	
28-Mar-2006	08:00:00	-5.79		-26.88		-9.45		1.62	
28-Mar-2006	20:00:00	-6		-26.39		-9.94		1.62	
29-Mar-2006	08:00:00	-5.91		-27.12		-10		1.27	
29-Mar-2006	20:00:00	-7.97		-27.51		-10.99		1.05	
30-Mar-2006	08:00:00	-7.54		-28		-10.98		0.34	
30-Mar-2006	20:00:00	-8.02		-27.86		-11.43		0.72	
31-Mar-2006	08:00:00	-7.61		-28.32		-11.45		-0.21	
31-Mar-2006	20:00:00	-8.1		-27.67		-11.72		0.24	
01-Apr-2006	08:00:00	-3.57		-27.55		-10.41		0.95	
01-Apr-2006	20:00:00	-6.55		-27.13		-11.61		0.44	
02-Apr-2006	08:00:00	-7.26		-28.32		-11.95		-0.9	

Cox 2006 Monitoring Data

Date	Time	AW1	MW2	AW3	MW4	AW5	MW6	AW7	MW8
02-Apr-2006	20:00:00	-8.47		-28.11		-12.39		-0.68	
03-Apr-2006	08:00:00	-4.77		-28.01		-11.72		-0.4	
03-Apr-2006	20:00:00	-3.69		-26.84		-10.9		1.12	
04-Apr-2006	08:00:00	-4.33		-28.48		-10.27		1	
04-Apr-2006	20:00:00	-7.78		-28.23		-12.07		-0.2	
05-Apr-2006	08:00:00	-7.52		-28.66		-12.24		-1.26	
05-Apr-2006	20:00:00	-11.44		-28.98		-13.41		-2.42	
06-Apr-2006	08:00:00	-10.7		-29.94		-13.63		-3.12	
06-Apr-2006	20:00:00	-11.63		-29.94		-13.94		-2.81	
07-Apr-2006	08:00:00	-10.3		-30.02		-13.63		-2.65	
07-Apr-2006	20:00:00	-12.99		-29.81		-14.22		-3.47	
08-Apr-2006	08:00:00	-10.69		-30.08		-13.91		-2.97	
08-Apr-2006	20:00:00	-7.26		-30.82		-13.6		-2.48	
09-Apr-2006	08:00:00	-9.35		-31.93		-13.08		-2.01	
09-Apr-2006	20:00:00	-13.36		-32.24		-14.43		-3.15	
10-Apr-2006	08:00:00	-13.19		-32.84		-14.9		-4.3	
10-Apr-2006	20:00:00	-14.35		-32.75		-15.12		-3.9	
11-Apr-2006	08:00:00	-13.89		-33.29		-15.41		-4.78	
11-Apr-2006	20:00:00	-15.16		-33.13		-15.53		-4.46	
12-Apr-2006	08:00:00	-14.13		-33.58		-15.68		-5.03	
12-Apr-2006	20:00:00	-15.33		-33.22		-15.77		-4.77	
13-Apr-2006	08:00:00	-13.29		-33.17		-15.65		-4.6	
13-Apr-2006	20:00:00	-14.15		-32.67		-15.75		-4.53	
14-Apr-2006	08:00:00	-13		-32.91		-15.75		-4.6	
14-Apr-2006	20:00:00	-14.49		-32.29		-15.83		-4.8	
15-Apr-2006	08:00:00	-13.67		-32.78		-16.07		-5.26	
15-Apr-2006	20:00:00	-17.09		-33.12		-16.42		-6.4	
16-Apr-2006	08:00:00	-15.64		-34.1		-17		-6.76	
16-Apr-2006	20:00:00	-17.07		-33.82		-16.99		-6.44	
17-Apr-2006	08:00:00	-15.78		-34.19		-17.32		-7.05	
17-Apr-2006	20:00:00	-9.49		-33.74		-15.68		-4.21	
18-Apr-2006	08:00:00	-11.81		-34.03		-15.81		-4	
18-Apr-2006	20:00:00	-14.34		-34.32		-16.04		-4.38	
19-Apr-2006	08:00:00	-13.91		-34.66		-16.7		-5.14	
19-Apr-2006	20:00:00	-15.97		-34.93		-17.11		-5.74	
20-Apr-2006	08:00:00	-15.44		-35.54		-17.73		-6.37	
20-Apr-2006	20:00:00	-17.33		-35.85		-17.93		-6.37	
21-Apr-2006	08:00:00	-17.13	-24.5	-36.38	-34.5	-18.38	-22	-7.27	-16
21-Apr-2006	20:00:00	-19.07		-36.62		-18.65		-7.79	
22-Apr-2006	08:00:00	-16.75		-36.53		-18.85		-7.18	
22-Apr-2006	20:00:00	-6.84		-35.28		-15.3		-0.56	
23-Apr-2006	08:00:00	-3.54		-32.64		-10.32		1.84	
23-Apr-2006	20:00:00	-6.93		-32.33		-12.02		1.29	
24-Apr-2006	08:00:00	-8.34		-33.24		-13.22		0.49	
24-Apr-2006	20:00:00	-9.09		-33.55		-13.77		-0.07	
25-Apr-2006	08:00:00	-9.19		-34.23		-14.47		-0.74	
25-Apr-2006	20:00:00	-11.1		-34		-14.79		-1.22	
26-Apr-2006	08:00:00	-13.29		-35.69		-16.07		-3.21	
26-Apr-2006	20:00:00	-5.2		-35.52		-14.88		0.06	
27-Apr-2006	08:00:00	-0.18		-32.64		-2.92		3.39	
27-Apr-2006	20:00:00	1.24		-24.17		5.91		3.57	
28-Apr-2006	08:00:00	0.48		-21.89		3.41		2.98	
28-Apr-2006	20:00:00	-0.75		-22.37		0.95		2.69	
29-Apr-2006	08:00:00	-2.49		-23.91		-1.63		2.3	
29-Apr-2006	20:00:00	-5.64		-24.55		-5.29		2.1	
30-Apr-2006	08:00:00	-5.51		-25.2		-6.31		1.86	
30-Apr-2006	20:00:00	-8.07		-25.76		-8.76		1.5	
01-May-2006	08:00:00	-7.34		-26.33		-9.2		1.31	
01-May-2006	20:00:00	-9.69		-26.98		-10.75		0.73	
02-May-2006	08:00:00	-8.03		-27.44		-11.03		0.34	
02-May-2006	20:00:00	-9.1		-27.48		-11.8		-0.04	

Cox 2006 Monitoring Data

Date	Time	AW1	MW2	AW3	MW4	AW5	MW6	AW7	MW8
03-May-2006	08:00:00	-8.34		-28.14		-12.27		-0.92	
03-May-2006	20:00:00	-11.72		-28.78		-13.27		-2.49	
04-May-2006	08:00:00	-10.45		-29.61		-13.87		-3.07	
04-May-2006	20:00:00	-11.96		-29.91		-14.27		-3.23	
05-May-2006	08:00:00	-10.58		-30.42		-14.8		-3.73	
05-May-2006	20:00:00	-1.65		-29.9		3.14		1.99	
06-May-2006	08:00:00	0.98		-21.01		5.19		3.55	
06-May-2006	20:00:00	-0.55		-20.92		1.99		2.91	
07-May-2006	08:00:00	-2.13		-22.71		-0.64		2.57	
07-May-2006	20:00:00	2		-19.48		5.92		4.65	
08-May-2006	08:00:00	1.62		-11.72		6.65		3.63	
08-May-2006	20:00:00	1.19		-11.52		5.45		3.38	
09-May-2006	08:00:00	0.78		-12.37		3.23		3	
09-May-2006	20:00:00	0.6		-12.7		2.69		3.02	
10-May-2006	08:00:00	0.34		-13.88		2.27		3.04	
10-May-2006	20:00:00	1.48		-13.99		3.56		2.94	
11-May-2006	08:00:00	1.23		-14.26		2.77		3.14	
11-May-2006	20:00:00	0.44		-14.77		2.24		3.1	
12-May-2006	08:00:00	-0.07		-16.12		0.79		2.77	
12-May-2006	20:00:00	-2.25		-16.83		-3.59		2.49	
13-May-2006	08:00:00	-2.49		-17.99		-4.45		2.13	
13-May-2006	20:00:00	-4.12		-18.51		-7		2.11	
14-May-2006	08:00:00	-2.38		-19.33		-4.97		2.01	
14-May-2006	20:00:00	-1.56		-19.51		-5.06		2.38	
15-May-2006	08:00:00	0.87		-15.11		3.43		3.57	
15-May-2006	20:00:00	0.49		-14.37		1.61		3.14	
16-May-2006	08:00:00	-0.51		-16.16		0.07		2.83	
16-May-2006	20:00:00	-1.86		-16.9		-3.3		2.65	
17-May-2006	08:00:00	-1.75		-17.83		-4.09		2.65	
17-May-2006	20:00:00	-3.14		-18.39		-6.58		2.51	
18-May-2006	08:00:00	-3.11	-0.5	-19.52	-16	-7.02	-7	2.4	-7
18-May-2006	20:00:00	-2.4		-20.08		-4.27		2.79	
19-May-2006	08:00:00	-2.26		-20.88		-3.99		2.99	
19-May-2006	20:00:00	-5.38		-21.41		-8.78		2.28	
20-May-2006	08:00:00	-3.71		-22.11		-8.12		2.26	
20-May-2006	20:00:00	-5.37		-22.47		-10.33		1.69	
21-May-2006	08:00:00	-4.37		-23.17		-10.21		1.49	
21-May-2006	20:00:00	-6.46		-23.33		-11.83		0.46	
22-May-2006	08:00:00	-6.91		-24.71		-12.5		-1.33	
22-May-2006	20:00:00	-7.37		-25.08		-13.29		-2.08	
23-May-2006	08:00:00	-7.09		-26.04		-13.78		-3.07	
23-May-2006	20:00:00	-9.02		-26.49		-14.47		-3.7	
24-May-2006	08:00:00	-7.76		-27.21		-15.09		-4.59	
24-May-2006	20:00:00	-8.22		-27.24		-15.34		-4.4	
25-May-2006	08:00:00	-6.47		-27.74		-15.71		-4.68	
25-May-2006	20:00:00	-8.24		-27.79		-15.96		-4.97	
26-May-2006	08:00:00	-6.69		-28.38		-16.46		-5.4	
26-May-2006	20:00:00	-9.6		-28.71		-16.9		-6.42	
27-May-2006	08:00:00	-8.04		-29.75		-17.67		-7.07	
27-May-2006	20:00:00	-10.69		-30.71		-18.24		-7.85	
28-May-2006	08:00:00	-9.48		-31.62		-18.98		-8.36	
28-May-2006	20:00:00	-11.29		-32.04		-19.35		-8.29	
29-May-2006	08:00:00	-9.85		-32.71		-20.01		-8.9	
29-May-2006	20:00:00	-11.5		-32.9		-20.28		-8.71	
30-May-2006	08:00:00	-9.93		-33.49		-20.93		-9.35	
30-May-2006	20:00:00	-12.33		-33.93		-21.26		-9.43	
31-May-2006	08:00:00	-10.75		-34.79		-21.93		-10.22	
31-May-2006	20:00:00	-12.71		-35.12		-22.24		-10.19	
01-Jun-2006	08:00:00	-10.73		-35.48		-22.79		-10.55	
01-Jun-2006	20:00:00	-12.67		-35.69		-23.07		-10.63	
02-Jun-2006	08:00:00	-10.9		-36.2		-23.65		-11.12	

Cox 2006 Monitoring Data

Date	Time	AW1	MW2	AW3	MW4	AW5	MW6	AW7	MW8
02-Jun-2006	20:00:00	-11.42		-36.49		-23.95		-11.05	
03-Jun-2006	08:00:00	-6.39		-36.2		-22.94		-7.34	
03-Jun-2006	20:00:00	-3.24		-34.93		-21.99		-4.93	
04-Jun-2006	08:00:00	-4.65		-35.64		-22.19		-6.38	
04-Jun-2006	20:00:00	-7.68		-35.98		-22.22		-7	
05-Jun-2006	08:00:00	-4.81		-36.88		-22.72		-6.96	
05-Jun-2006	20:00:00	-8.21		-37.2		-23.09		-7.95	
06-Jun-2006	08:00:00	-2.44		-34.93		-13.72		-3.29	
06-Jun-2006	20:00:00	-4.34		-34.37		-16.96		-4	
07-Jun-2006	08:00:00	-5.57		-35.5		-18.13		-5.48	
07-Jun-2006	20:00:00	-8.48		-35.93		-18.57		-6	
08-Jun-2006	08:00:00	-7.92		-36.71		-19.29		-7	
08-Jun-2006	20:00:00	-4.05		-37.19		-16.81		-4.56	
09-Jun-2006	08:00:00	-3.24		-36.12		-16.78		-1.83	
09-Jun-2006	20:00:00	-6.3		-36.22		-17.54		-3.41	
10-Jun-2006	08:00:00	-6.99		-37.28		-18.64		-5.15	
10-Jun-2006	20:00:00	-9.25		-37.6		-19.25		-5.97	
11-Jun-2006	08:00:00	-9.03		-38.5		-20.16		-7.18	
11-Jun-2006	20:00:00	-10.42		-39.17		-20		-7.76	
12-Jun-2006	08:00:00	-2.42		-36.88		-18.5		-2.3	
12-Jun-2006	20:00:00	-1.08		-36.13		-0.68		2.33	
13-Jun-2006	08:00:00	1.57		-32.6		7.19		3.48	
13-Jun-2006	20:00:00	0.53		-31.34		3.62		3.22	
14-Jun-2006	08:00:00	2.13		-29.22		4.39		3.86	
14-Jun-2006	20:00:00	2.74		-19.05		7.8		4.12	
15-Jun-2006	08:00:00	1.13		-18.71		4.54		3.63	
15-Jun-2006	20:00:00	0.18		-19.63		2.95		3.34	
16-Jun-2006	08:00:00	-0.64		-21.32		2.28		3	
16-Jun-2006	20:00:00	-2.23		-22.18		-0.64		2.89	
17-Jun-2006	08:00:00	-2.72		-23.28		-1.56		6.75	
17-Jun-2006	20:00:00	-3.97		-23.9		-3.95		18.7	
18-Jun-2006	08:00:00	-3.77		-24.77		-3.55		18.83	
18-Jun-2006	20:00:00	-5.66		-25.27		-6.3		18.77	
19-Jun-2006	08:00:00	-4.62		-26.03		-6.3		13.14	
19-Jun-2006	20:00:00	-6.26		-26.44		-8.55		8.11	
20-Jun-2006	08:00:00	-4.77		-27.24		-8.66		3.82	
20-Jun-2006	20:00:00	-7.29		-28		-10.49		3	
21-Jun-2006	08:00:00	-5.7		-28.81		-10.91		2.75	
21-Jun-2006	20:00:00	0.44		-23.63		4.86		4.36	
22-Jun-2006	08:00:00	0.21		-21.6		2.97		3.81	
22-Jun-2006	20:00:00	-0.5		-21.81		0.36		3.79	
23-Jun-2006	08:00:00	-1.06	-1	-22.98		-0.74	-2.25	3.49	-2.5
23-Jun-2006	20:00:00	-2.95		-23.67		-4		3.29	
24-Jun-2006	08:00:00	-2.52		-24.41		-4.72		2.62	
24-Jun-2006	20:00:00	-4.33		-24.95		-7.43		2.89	
25-Jun-2006	08:00:00	-3.6		-25.64		-7.84		2.76	
25-Jun-2006	20:00:00	1.53		-21.36		3.78		4.64	
26-Jun-2006	08:00:00	1.28		-17.83		3.53		4.03	
26-Jun-2006	20:00:00	1.24		-17.55		2.75		4.27	
27-Jun-2006	08:00:00	1.14		-18.02		2.34		4	
27-Jun-2006	20:00:00	1.87		-15.75		3.8		4.2	
28-Jun-2006	08:00:00	1.13		-16.31		2.81		3.96	
28-Jun-2006	20:00:00	0.05		-17.07		-0.14		4.11	
29-Jun-2006	08:00:00	-0.18		-18.48		-1.02		3.79	
29-Jun-2006	20:00:00	-2.02		-19.46		-4.58		3.36	
30-Jun-2006	08:00:00	-2.27		-20.8		-5.45		2.87	
30-Jun-2006	20:00:00	-4.1		-21.78		-8.26		2.22	
01-Jul-2006	08:00:00	-3.81		-23.08		-8.83		1.56	
01-Jul-2006	20:00:00	-5.05		-23.77		-10.57		0.84	
02-Jul-2006	08:00:00	-4.42		-24.79		-11.22		-0.2	
02-Jul-2006	20:00:00	-6.2		-25.38		-12.46		-1.44	

Cox 2006 Monitoring Data

Date	Time	AW1	MW2	AW3	MW4	AW5	MW6	AW7	MW8
03-Jul-2006	08:00:00	-4.82		-26.19		-13.04		-2.09	
03-Jul-2006	20:00:00	-6.51		-26.77		-13.75		-3	
04-Jul-2006	08:00:00	-0.72		-24.51		0.52		3.86	
04-Jul-2006	20:00:00	-1.77		-23.81		-4.91		3.42	
05-Jul-2006	08:00:00	-2.31		-25.19		-6.54		3.09	
05-Jul-2006	20:00:00	-4.99		-26.07		-9.82		2.2	
06-Jul-2006	08:00:00	-4.42		-27.25		-10.78		1.46	
06-Jul-2006	20:00:00	0.9		-21.75		5.89		4.73	
07-Jul-2006	08:00:00	0.45		-20		3.15		4.05	
07-Jul-2006	20:00:00	-0.86		-20.54		0.8		4.08	
08-Jul-2006	08:00:00	-1.36		-21.73		-0.17		3.76	
08-Jul-2006	20:00:00	-2.71		-22.32		-3.51		3.72	
09-Jul-2006	08:00:00	-3.06		-23.42		-4.43		3.32	
09-Jul-2006	20:00:00	-3.93		-24.01		-7.08		2.93	
10-Jul-2006	08:00:00	-3.81		-24.95		-7.66		2.25	
10-Jul-2006	20:00:00	-5.36		-25.66		-9.95		1.24	
11-Jul-2006	08:00:00	-4.99		-26.72		-10.5		0.12	
11-Jul-2006	20:00:00	-6.51		-27.33		-12.06		-0.99	
12-Jul-2006	08:00:00	-5.54		-28.18		-12.69		-1.91	
12-Jul-2006	20:00:00	-7.6		-28.49		-13.56		-2.94	
13-Jul-2006	08:00:00	-6.13		-29.2		-14.36		-3.57	
13-Jul-2006	20:00:00	-8.52		-29.73		-15.09		-4.68	
14-Jul-2006	08:00:00	-7.36		-30.46		-15.93		-5.34	
14-Jul-2006	20:00:00	-9.26		-31.1		-16.58		-6.32	
15-Jul-2006	08:00:00	-7.73		-31.72		-17.34		-6.47	
15-Jul-2006	20:00:00	-9.61		-32.18		-17.87		-6.39	
16-Jul-2006	08:00:00	-6.69		-32.97		-18.44		-6.16	
16-Jul-2006	20:00:00	-10.3		-33.62		-18.95		-6.92	
17-Jul-2006	08:00:00	-9.38		-34.39		-19.8		-8.72	
17-Jul-2006	20:00:00	-11.78		-34.91		-20.36		-8.25	
18-Jul-2006	08:00:00	-10.21	-18	-35.59	-32.5	-21.07	-23.25	-9.11	-20
18-Jul-2006	20:00:00	-12.56		-36.17		-21.6		-9.33	
19-Jul-2006	08:00:00	-11.25		-36.98		-22.32		-10.45	
19-Jul-2006	20:00:00	-8.21		-37.62		-20.59		-6.57	
20-Jul-2006	08:00:00	-8.54		-37.87		-21.19		-5.15	
20-Jul-2006	20:00:00	-10		-38.18		-21.77		-5.34	
21-Jul-2006	08:00:00	-9.41		-38.6		-22.5		-7.19	
21-Jul-2006	20:00:00	-12.22		-38.94		-23.07		-7.27	
22-Jul-2006	08:00:00	-11.06		-39.49		-23.74		-8.85	
22-Jul-2006	20:00:00	-8.44		-39.74		-19.67		-7.24	
23-Jul-2006	08:00:00	-8.02		-39.69		-22.06		-5.44	
23-Jul-2006	20:00:00	-3.2		-38.36		-9.35		1.94	
24-Jul-2006	08:00:00	-3.8		-37.59		-14.78		1.2	
24-Jul-2006	20:00:00	-7.11		-38.02		-16.22		0.88	
25-Jul-2006	08:00:00	-7.05		-38.78		-17.23		-0.31	
25-Jul-2006	20:00:00	-4.53		-38.75		-17.71		-0.56	
26-Jul-2006	08:00:00	-5.71		-39.48		-18.37		-2.04	
26-Jul-2006	20:00:00	-8.09		-39.85		-18.93		-2.21	
27-Jul-2006	08:00:00	-8.56		-40.65		-19.72		-5.31	
27-Jul-2006	20:00:00	-10.41		-40.94		-20.51		-5.15	
28-Jul-2006	08:00:00	-10.13		-41.7		-21.33		-7.2	
28-Jul-2006	20:00:00	-9.3		-41.98		-22.01		-6.35	
29-Jul-2006	08:00:00	-9.42		-42.3		-22.73		-7.47	
29-Jul-2006	20:00:00	-9.73		-42.33		-23.35		-6.86	
30-Jul-2006	08:00:00	-10.03		-42.76		-24		-10.01	
30-Jul-2006	20:00:00	-12.24		-43.18		-24.71		-8.14	
31-Jul-2006	08:00:00	-11.89		-43.89		-25.41		-11.56	
31-Jul-2006	20:00:00	-14.49		-44.54		-26.13		-9.56	
01-Aug-2006	08:00:00	-13.44		-45.11		-26.74		-13.28	
01-Aug-2006	20:00:00	-15.24		-45.41		-27.42		-10.38	
02-Aug-2006	08:00:00	-13.87		-45.84		-27.99		-13.93	

Cox 2006 Monitoring Data

Date	Time	AW1	MW2	AW3	MW4	AW5	MW6	AW7	MW8
02-Aug-2006	20:00:00	-15.65		-46.09		-28.63		-12.68	
03-Aug-2006	08:00:00	-14.52		-46.63		-29.19		-13.38	
03-Aug-2006	20:00:00	-17.17		-47.04		-29.85		-13.87	
04-Aug-2006	08:00:00	-15.85		-47.52		-30.39		-14.68	
04-Aug-2006	20:00:00	-18.59		-48.11		-30.89		-15.08	
05-Aug-2006	08:00:00	-18.07		-48.5		-31.44		-17.58	
05-Aug-2006	20:00:00	-19.04		-48.41		-32.01		-16.72	
06-Aug-2006	08:00:00	-18.38		-48.43		-32.6		-22.39	
06-Aug-2006	20:00:00	-20.77		-48.45		-33.17		-18.23	
07-Aug-2006	08:00:00	-19.53		-48.45		-33.76		-25.24	
07-Aug-2006	20:00:00	-18.81		-48.45		-34.31		-16.43	
08-Aug-2006	08:00:00	-18.5		-48.46		-34.86		-25.28	
08-Aug-2006	20:00:00	-21.63		-48.47		-35.46		-20.23	
09-Aug-2006	08:00:00	-20.03		-48.46		-36.07		-27.12	
09-Aug-2006	20:00:00	-22.09		-48.47		-36.74		-20.2	
10-Aug-2006	08:00:00	-21.05		-48.46		-37.6		-27.83	
10-Aug-2006	20:00:00	-22.19		-48.47		-38.13		-22.97	
11-Aug-2006	08:00:00	-21.96		-48.47		-38.77		-24.31	
11-Aug-2006	20:00:00	-17.54		-48.47		-38.94		-17.28	
12-Aug-2006	08:00:00	-19.2		-48.48		-39.1		-16.62	
12-Aug-2006	20:00:00	-19.94		-48.48		-39.24		-18.17	
13-Aug-2006	08:00:00	-20.67		-48.45		-39.41		-24.61	
13-Aug-2006	20:00:00	-22.82		-48.44		-39.64		-18.42	
14-Aug-2006	08:00:00	-22.73		-48.26		-39.97		-25.04	
14-Aug-2006	20:00:00	-23.95		-48.25		-40.27		-19.54	
15-Aug-2006	08:00:00	-23.61		-48.27		-40.7		-20.44	
15-Aug-2006	20:00:00	-25.42		-48.29		-41.18		-21.5	
16-Aug-2006	08:00:00	-25.09		-48.3		-41.62		-23.26	
16-Aug-2006	20:00:00	-25.86		-48.29		-42.06		-20.39	
17-Aug-2006	08:00:00	-25.89		-48.3		-42.55		-26.37	
17-Aug-2006	20:00:00	-26.66		-48.3		-42.94		-22.21	
18-Aug-2006	08:00:00	-26.35		-48.28		-43.47		-24.92	
18-Aug-2006	20:00:00	-26.84		-48.27		-43.67		-23.05	
19-Aug-2006	08:00:00	-26.69		-48.28		-44.08		-31.92	
19-Aug-2006	20:00:00	-27.77		-48.22		-44.47		-24.79	
20-Aug-2006	08:00:00	-27.77		-48.22		-44.85		-28.53	
20-Aug-2006	20:00:00	-28.79		-48.23		-45.25		-24.96	
21-Aug-2006	08:00:00	-22.82		-48.23		-45.46		-20.41	
21-Aug-2006	20:00:00	-22.71		-48.23		-45.19		-18.14	
22-Aug-2006	08:00:00	-23.44		-48.23		-44.89		-24.52	
22-Aug-2006	20:00:00	-24.08		-48.24		-44.97		-16.15	
23-Aug-2006	08:00:00	-22.49	-35.5	-48.2	-52.5	-44.91	-19	-20.13	-36
23-Aug-2006	20:00:00	-23.66		-48.18		-45.03		-17.47	
24-Aug-2006	08:00:00	-24.61		-48.13		-45.07		-23.95	
24-Aug-2006	20:00:00	-25.71		-48.14		-45.34		-17.46	
25-Aug-2006	08:00:00	-26.38		-48.17		-45.52		-26.16	
25-Aug-2006	20:00:00	-27.81		-48.16		-45.76		-18.94	
26-Aug-2006	08:00:00	-28.26		-48.17		-46		-28.03	
26-Aug-2006	20:00:00	-29.42		-48.16		-46.28		-22.38	
27-Aug-2006	08:00:00	-29.6		-48.16		-46.61		-25.57	
27-Aug-2006	20:00:00	-30.17		-48.16		-46.9		-22.62	
28-Aug-2006	08:00:00	-30.17		-48.15		-47.17		-28.9	
28-Aug-2006	20:00:00	-31.07		-48.13		-47.45		-21.62	
29-Aug-2006	08:00:00	-31.04		-48.11		-47.8		-31.87	
29-Aug-2006	20:00:00	-32.06		-48.1		-48.18		-25.3	
30-Aug-2006	08:00:00	-31.65		-48.09		-48.61		-31.92	
30-Aug-2006	20:00:00	-21.26		-48.05		-39.66		-9.39	
31-Aug-2006	08:00:00	-19.15		-47.94		-41.61		-8.35	
31-Aug-2006	20:00:00	-8.4		-47.95		-39.78		-1.98	
01-Sep-2006	08:00:00	3.54		-28.57		7.66		5.29	
01-Sep-2006	20:00:00	0.31		-34.44		6.48		5.83	

Cox 2006 Monitoring Data

Date	Time	AW1	MW2	AW3	MW4	AW5	MW6	AW7	MW8
02-Sep-2006	08:00:00	-0.67		-36.73		2.55		-3.01	
02-Sep-2006	20:00:00	-2.14		-38.9		-3.15		3.78	
03-Sep-2006	08:00:00	-3.02		-40.48		-5.88		-3.75	
03-Sep-2006	20:00:00	-4.46		-41.53		-9.5		3.65	
04-Sep-2006	08:00:00	-4.84		-42.5		-11.14		-3.93	
04-Sep-2006	20:00:00	-6.37		-43.19		-13.31		0.06	
05-Sep-2006	08:00:00	0.13		-42.06		-8.23		2.81	
05-Sep-2006	20:00:00	0.8		-39.31		-3.12		3.7	
06-Sep-2006	08:00:00	-0.15		-38.96		-6.16		3.13	
06-Sep-2006	20:00:00	1.12		-39.44		5.79		2.79	
07-Sep-2006	08:00:00	-0.53		-40.32		-0.81		2.41	
07-Sep-2006	20:00:00	-1.59		-40.81		-6.95		1.91	
08-Sep-2006	08:00:00	-2.7		-41.66		-9.74		1.48	
08-Sep-2006	20:00:00	-4.6		-42.03		-12.92		0.48	
09-Sep-2006	08:00:00	-5.3		-42.61		-13.98		-0.27	
09-Sep-2006	20:00:00	-6.54		-42.97		-15.43		-0.99	
10-Sep-2006	08:00:00	-6.96		-43.5		-16.13		-1.48	
10-Sep-2006	20:00:00	-9.08		-44.15		-17.53		-3.33	
11-Sep-2006	08:00:00	-9.31		-44.86		-18.21		-4.65	
11-Sep-2006	20:00:00	-11.12		-45.3		-19.32		-6.02	
12-Sep-2006	08:00:00	-10.92		-45.56		-19.88		-6.51	
12-Sep-2006	20:00:00	-11.72		-45.67		-20.75		-6.95	
13-Sep-2006	08:00:00	-10.8		-45.72		-21.15		-7.19	
13-Sep-2006	20:00:00	-2.03		-45.58		-21.43		-3.9	
14-Sep-2006	08:00:00	0.12		-43.07		-17.3		1.05	
14-Sep-2006	20:00:00	-0.22		-42.89		-15.07		1.54	
15-Sep-2006	08:00:00	-1.57		-43.27		-15.24		1.06	
15-Sep-2006	20:00:00	-4.02		-43.58		-16.32		0	
16-Sep-2006	08:00:00	-5.39		-44.1		-17.15		-0.58	
16-Sep-2006	20:00:00	-6.67		-44.35		-18.16		-1.29	
17-Sep-2006	08:00:00	-7.24		-44.84		-18.81		-2.24	
17-Sep-2006	20:00:00	-8.31		-44.85		-19.64		-3.42	
18-Sep-2006	08:00:00	-8.71		-45.34		-20.24		-4.83	
18-Sep-2006	20:00:00	-9.79		-45.55		-21.11		-6.21	
19-Sep-2006	08:00:00	-8.99		-45.62		-21.52		-6.37	
19-Sep-2006	20:00:00	-0.89		-38.97		-14.62		1.51	
20-Sep-2006	08:00:00	-1.01		-40.76		-14.31		1.78	
20-Sep-2006	20:00:00	-3.79		-41.83		-15.83		0.46	
21-Sep-2006	08:00:00	-3.76	-16	-41.83	-39.5	-15.83	-2	-0.33	-11.5
21-Sep-2006	20:00:00	-7.91		-43.73		-22.35		-1.1	
22-Sep-2006	08:00:00	-8.69		-44.32		-22.99		-1.98	
22-Sep-2006	20:00:00	-9.17		-44.62		-23.5		-3.1	
23-Sep-2006	08:00:00	-8.49		-44.8		-23.83		-3.6	
23-Sep-2006	20:00:00	-9.25		-44.92		-24.17		-4.69	
24-Sep-2006	08:00:00	-8.6		-45.24		-24.57		-5.07	
24-Sep-2006	20:00:00	-10.08		-45.46		-24.97		-6.49	
25-Sep-2006	08:00:00	-10.71		-46.37		-25.54		-7.41	
25-Sep-2006	20:00:00	-12.18		-46.9		-26.1		-8.42	
26-Sep-2006	08:00:00	-12.81		-47.41		-26.66		-9.08	
26-Sep-2006	20:00:00	-13.48		-47.55		-27.14		-9.3	
27-Sep-2006	08:00:00	-13.47		-47.8		-27.68		-9.64	
27-Sep-2006	20:00:00	-13.85		-47.9		-28.23		-9.75	
28-Sep-2006	08:00:00	-13.48		-48.1		-28.75		-9.94	
28-Sep-2006	20:00:00	-13.84		-47.98		-29.25		-10.27	
29-Sep-2006	08:00:00	-10.14		-48.19		-29.86		-9.92	
29-Sep-2006	20:00:00	-13.13		-48.18		-30.12		-10.62	
30-Sep-2006	08:00:00	-14.27		-48.18		-30.33		-11.32	
30-Sep-2006	20:00:00	-14.53		-48.16		-30.53		-11.01	
01-Oct-2006	08:00:00	-14.63		-48.14		-30.89		-11.42	
01-Oct-2006	20:00:00	-15.74		-48.14		-31.31		-11.9	
02-Oct-2006	08:00:00	-16.38		-48.12		-31.86		-12.71	

Cox 2006 Monitoring Data

Date	Time	AW1	MW2	AW3	MW4	AW5	MW6	AW7	MW8
02-Oct-2006	20:00:00	-16.81		-48.12		-32.39		-12.62	
03-Oct-2006	08:00:00	-16.94		-48.1		-32.98		-13.23	
03-Oct-2006	20:00:00	-16.94		-48.11		-33.54		-12.94	
04-Oct-2006	08:00:00	-16.8		-48.1		-34.11		-13.42	
04-Oct-2006	20:00:00	-16.85		-48.1		-34.63		-13.21	
05-Oct-2006	08:00:00	-16.47		-48.09		-35.18		-13.72	
05-Oct-2006	20:00:00	-16.82		-48.07		-35.68		-13.73	
06-Oct-2006	08:00:00	-16.33		-48.1		-36.2		-13.92	
06-Oct-2006	20:00:00	-11.48		-48.07		-36.72		-13.18	
07-Oct-2006	08:00:00	-12.64		-48.08		-36.69		-13.11	
07-Oct-2006	20:00:00	-13.8		-48.08		-36.09		-13.19	
08-Oct-2006	08:00:00	-2.3		-48.09		-27.99		-5.33	
08-Oct-2006	20:00:00	-1.22		-48.1		-25.5		0.1	
09-Oct-2006	08:00:00	-2.37		-48		-27.23		-0.41	
09-Oct-2006	20:00:00	-2.6		-47.92		-27.99		-0.41	
10-Oct-2006	08:00:00	-3.88		-48.1		-28.34		-1.02	
10-Oct-2006	20:00:00	-5.67		-48.18		-28.56		-1.76	
11-Oct-2006	08:00:00	-6.69		-47.97		-28.79		-3.09	
11-Oct-2006	20:00:00	-6.79		-47.96		-28.88		-3.56	
12-Oct-2006	08:00:00	-7.5		-47.97		-29.02		-4.83	
12-Oct-2006	20:00:00	-9.69		-47.97		-29.37		-6.76	
13-Oct-2006	08:00:00	-11.61		-47.99		-29.82		-8.66	
13-Oct-2006	20:00:00	-12.75		-47.96		-30.2		-9.39	
14-Oct-2006	08:00:00	-14.1		-47.96		-30.58		-10.6	
14-Oct-2006	20:00:00	-14.95		-47.96		-30.92		-10.79	
15-Oct-2006	08:00:00	-16		-47.96		-31.4		-11.83	
15-Oct-2006	20:00:00	-16.23		-47.96		-31.77		-11.49	
16-Oct-2006	08:00:00	-16.95		-47.95		-32.29		-12.46	
16-Oct-2006	20:00:00	-16.54		-47.96		-32.58		-11.86	
17-Oct-2006	08:00:00	-14.52		-47.96		-32.79		-11.34	
17-Oct-2006	20:00:00	-2.14		-47.96		-32.42		-5.47	
18-Oct-2006	08:00:00	0.52		-39.15		-19.39		2.27	
18-Oct-2006	20:00:00	0.13		-39.99		-18.46		2.49	
19-Oct-2006	08:00:00	-0.33	0.25	-40.99	-4.5	-19.96	-1	2.18	-5.5
19-Oct-2006	20:00:00	-0.79		-41.23		-20.88		1.99	
20-Oct-2006	08:00:00	-0.88		-41.41		-21.26		1.69	
20-Oct-2006	20:00:00	-3.88		-43.27		-22.33		-0.27	
21-Oct-2006	08:00:00	-5.54		-44.28		-23.3		-1.05	
21-Oct-2006	20:00:00	-6.65		-44.49		-23.8		-1.11	
22-Oct-2006	08:00:00	-6.68		-44.47		-24.09		-1.37	
22-Oct-2006	20:00:00	0.03		-42.99		-21.03		1.73	
23-Oct-2006	08:00:00	-1.42		-43.48		-21.59		1.03	
23-Oct-2006	20:00:00	-3.18		-43.49		-22.23		0.15	
24-Oct-2006	08:00:00	-4.89		-44.06		-22.99		-0.82	
24-Oct-2006	20:00:00	-6.64		-44.61		-23.6		-1.44	
25-Oct-2006	08:00:00	-7.91		-45.22		-24.21		-2.14	
25-Oct-2006	20:00:00	-8.25		-45.31		-24.41		-2.33	
26-Oct-2006	08:00:00	-9.1		-45.82		-24.77		-3.82	
26-Oct-2006	20:00:00	-8.36		-45.71		-24.8		-3.45	
27-Oct-2006	08:00:00	-7.97		-45.71		-24.84		-3.97	
27-Oct-2006	20:00:00	0.91		-42.48		-16.38		2.54	
28-Oct-2006	08:00:00	2.57		-21.35		-2.09		4.04	
28-Oct-2006	20:00:00	0.29		-25.15		-7.77		3.36	
29-Oct-2006	08:00:00	-0.35		-28.31		-9.44		3.14	
29-Oct-2006	20:00:00	-0.85		-30.7		-10.53		3	
30-Oct-2006	08:00:00	-1.52		-32.39		-11.4		2.53	
30-Oct-2006	20:00:00	-1.27		-33.26		-11.98		2.51	
31-Oct-2006	08:00:00	-1.58		-34.07		-12.56		2.29	
31-Oct-2006	20:00:00	-1.17		-34.42		-12.87		2.31	
01-Nov-2006	08:00:00	-1.69		-35.13		-13.47		1.93	
01-Nov-2006	20:00:00	-1.31		-35.19		-13.73		1.91	

Cox 2006 Monitoring Data

Date	Time	AW1	MW2	AW3	MW4	AW5	MW6	AW7	MW8
02-Nov-2006	08:00:00	-1.65		-35.74		-14.25		1.39	
02-Nov-2006	20:00:00	-3.12		-36.89		-15.29		0.5	
03-Nov-2006	08:00:00	-4.19		-37.92		-16.13		-0.41	
03-Nov-2006	20:00:00	-4.59		-38.24		-16.52		-0.73	
04-Nov-2006	08:00:00	-5.46		-38.95		-17		-1.47	
04-Nov-2006	20:00:00	-5		-38.87		-17.16		-1.07	
05-Nov-2006	08:00:00	-5.48		-39.14		-17.52		-1.64	
05-Nov-2006	20:00:00	-4.62		-39.01		-17.55		-1.41	
06-Nov-2006	08:00:00	-5.04		-39.37		-17.92		-1.91	
06-Nov-2006	20:00:00	-3.68		-38.9		-17.82		-1.28	
07-Nov-2006	08:00:00	-2.93		-38.52		-17.74		-1.15	
07-Nov-2006	20:00:00	2.12		-21.17		-0.57		4.02	
08-Nov-2006	08:00:00	1.8		-21.46		-1.67		4.16	
08-Nov-2006	20:00:00	1.57		-23.31		-4.16		4.02	
09-Nov-2006	08:00:00	0.38		-25.57		-5.83		3.64	
09-Nov-2006	20:00:00	0.07		-27.18		-6.91		3.57	
10-Nov-2006	08:00:00	-0.65		-28.85		-7.97		3.08	
10-Nov-2006	20:00:00	-0.4		-29.84		-8.44		3.21	
11-Nov-2006	08:00:00	-0.66		-30.47		-9.06		2.85	
11-Nov-2006	20:00:00	-0.3		-30.33		-9.14		3.04	
12-Nov-2006	08:00:00	1.54		-28.17		-1.95		4.52	
12-Nov-2006	20:00:00	1.02		-25.06		-2.58		4.12	
13-Nov-2006	08:00:00	0.63	-0.5	-25.57	-28.25	-4.87	-7.5	3.77	-1

Cox 2006 Monitoring Data

Date	Time	Water Level (inches)						
		MW9	AW10	Ref-MW1	Ref-MW2	Ref-AW3	Ref-MW4	Ref-MW5
01-Jan-2006	08:00:00		2.28			0		
01-Jan-2006	20:00:00		2.2			-0.2		
02-Jan-2006	08:00:00		2.21			-0.2		
02-Jan-2006	20:00:00		3.53			2.1		
03-Jan-2006	08:00:00		3.38			2.3		
03-Jan-2006	20:00:00		2.83			1.3		
04-Jan-2006	08:00:00		2.62			1		
04-Jan-2006	20:00:00		2.6			0.8		
05-Jan-2006	08:00:00		2.51			0.4		
05-Jan-2006	20:00:00		2.49			0.4		
06-Jan-2006	08:00:00		2.76			1.1		
06-Jan-2006	20:00:00		2.44			0.6		
07-Jan-2006	08:00:00		1.99			-0.2		
07-Jan-2006	20:00:00		2.15			-0.2		
08-Jan-2006	08:00:00		1.94			-0.4		
08-Jan-2006	20:00:00		1.93			-0.4		
09-Jan-2006	08:00:00		1.93			-0.4		
09-Jan-2006	20:00:00		1.97			-0.4		
10-Jan-2006	08:00:00		1.9			-0.2		
10-Jan-2006	20:00:00		1.99			-0.2		
11-Jan-2006	08:00:00		2.18			-0.2		
11-Jan-2006	20:00:00		2.18			0		
12-Jan-2006	08:00:00		2.12			0.2		
12-Jan-2006	20:00:00		2.15			0		
13-Jan-2006	08:00:00		2.17			0.2		
13-Jan-2006	20:00:00		2.3			-0.2		
14-Jan-2006	08:00:00		2.79			1.1		
14-Jan-2006	20:00:00		2.19			0		
15-Jan-2006	08:00:00		1.57			-0.6		
15-Jan-2006	20:00:00		1.45			-1.1		
16-Jan-2006	08:00:00		1.44			-1.1		
16-Jan-2006	20:00:00		1.47			-1.1		
17-Jan-2006	08:00:00		1.66			-1.1		
17-Jan-2006	20:00:00		1.76			-1.1		
18-Jan-2006	08:00:00		3.43			2.5		
18-Jan-2006	20:00:00		2.38			1		
19-Jan-2006	08:00:00		2.01			0		
19-Jan-2006	20:00:00		1.89			0		
20-Jan-2006	08:00:00		1.7			-0.8		
20-Jan-2006	20:00:00		1.69			-0.8		
21-Jan-2006	08:00:00		1.64			-0.8		
21-Jan-2006	20:00:00		2.74			1		
22-Jan-2006	08:00:00		2.2			0.2		
22-Jan-2006	20:00:00		2.01			-0.4		
23-Jan-2006	08:00:00		2.09			-0.4		
23-Jan-2006	20:00:00		2.3			0.2		
24-Jan-2006	08:00:00		2.79			1.3		
24-Jan-2006	20:00:00		2.39			0.8		
25-Jan-2006	08:00:00		2.07			0		
25-Jan-2006	20:00:00		1.53			-0.6		
26-Jan-2006	08:00:00		1.02			-1.3		
26-Jan-2006	20:00:00		0.91			-1.5		
27-Jan-2006	08:00:00		-0.58			-2.1		
27-Jan-2006	20:00:00		0.79			-1.9		
28-Jan-2006	08:00:00		-0.08			-2.1		
28-Jan-2006	20:00:00		0.91			-1.9		
29-Jan-2006	08:00:00		1.19			-1.7		
29-Jan-2006	20:00:00		1.41			-1.7		
30-Jan-2006	08:00:00		1.4			-1.3		
30-Jan-2006	20:00:00		1.51			-1.1		
31-Jan-2006	08:00:00		2.51			1.1		

Cox 2006 Monitoring Data

		Water Level (inches)						
Date	Time	MW9	AW10	Ref-MW1	Ref-MW2	Ref-AW3	Ref-MW4	Ref-MW5
31-Jan-2006	20:00:00		1.78			0.2		
01-Feb-2006	08:00:00		1.27			-0.8		
01-Feb-2006	20:00:00		1.12			-0.9		
02-Feb-2006	08:00:00		0.93			-1.3		
02-Feb-2006	20:00:00		1.18			-1.3		
03-Feb-2006	08:00:00		1.45			-0.9		
03-Feb-2006	20:00:00		1.15			-0.9		
04-Feb-2006	08:00:00		1.27			-0.8		
04-Feb-2006	20:00:00		1.53			-0.2		
05-Feb-2006	08:00:00		0.9			-1.3		
05-Feb-2006	20:00:00		0.2			-1.9		
06-Feb-2006	08:00:00		-0.77			-2.3		
06-Feb-2006	20:00:00		-0.72			-2.1		
07-Feb-2006	08:00:00		0.53			-1.5		
07-Feb-2006	20:00:00		0.3			-1.9		
08-Feb-2006	08:00:00		-1.33			-2.5		
08-Feb-2006	20:00:00		-0.45			-2.3		
09-Feb-2006	08:00:00		-0.93			-2.7		
09-Feb-2006	20:00:00		-1.38			-2.5		
10-Feb-2006	08:00:00		-8.19			-3		
10-Feb-2006	20:00:00		-7.76			-2.7		
11-Feb-2006	08:00:00		-1.26			-2.3		
11-Feb-2006	20:00:00		2.26			1.1		
12-Feb-2006	08:00:00		1.47			0.6		
12-Feb-2006	20:00:00		0.67			-0.4		
13-Feb-2006	08:00:00		-1.21			-1.3		
13-Feb-2006	20:00:00		-0.21			-1.7		
14-Feb-2006	08:00:00		-1.74			-2.1		
14-Feb-2006	20:00:00		-1.22			-2.3		
15-Feb-2006	08:00:00		-1.55			-2.5		
15-Feb-2006	20:00:00		-2.97			-2.7		
16-Feb-2006	08:00:00		-2.24			-2.3		
16-Feb-2006	20:00:00		-2.29			-2.8		
17-Feb-2006	08:00:00		-1.5			-2.1		
17-Feb-2006	20:00:00		-1.88			-2.7		
18-Feb-2006	08:00:00		-5.72			-2.7		
18-Feb-2006	20:00:00		-5.41			-2.5		
19-Feb-2006	08:00:00		-8.91			-3.2		
19-Feb-2006	20:00:00		-10.68			-3.2		
20-Feb-2006	08:00:00		-10.46			-3		
20-Feb-2006	20:00:00		-7.75			-3		
21-Feb-2006	08:00:00		-1.61			-2.8		
21-Feb-2006	20:00:00		-2.84			-3		
22-Feb-2006	08:00:00		-5.96			-2.7		
22-Feb-2006	20:00:00		1.04			-0.6		
23-Feb-2006	08:00:00		2.65			2.3		
23-Feb-2006	20:00:00		1.72			1.1		
24-Feb-2006	08:00:00		1.08			-0.2		
24-Feb-2006	20:00:00		0.33			-0.9		
25-Feb-2006	08:00:00		-0.01			-1.9		
25-Feb-2006	20:00:00		0.13			-1.5		
26-Feb-2006	08:00:00		-0.39			-1.9		
26-Feb-2006	20:00:00		-2.77			-2.5		
27-Feb-2006	08:00:00		-9.78			-3		
27-Feb-2006	20:00:00		-9.74			-2.8		
28-Feb-2006	08:00:00		-10.78			-2.8		
28-Feb-2006	20:00:00		-10.77			-3.2		
01-Mar-2006	08:00:00		-11.32			-3		
01-Mar-2006	20:00:00		-12.11			-3.4		
02-Mar-2006	08:00:00		-11.63			-2.8		
02-Mar-2006	20:00:00		-13.17			-3.4		

Cox 2006 Monitoring Data

Date	Time	Water Level (inches)						
		MW9	AW10	Ref-MW1	Ref-MW2	Ref-AW3	Ref-MW4	Ref-MW5
03-Mar-2006	08:00:00		-14.4			-3.2		
03-Mar-2006	20:00:00		-15.14			-3.8		
04-Mar-2006	08:00:00		-15.81			-4.2		
04-Mar-2006	20:00:00		-15.96			-4.2		
05-Mar-2006	08:00:00		-16.48			-4.4		
05-Mar-2006	20:00:00		-16.37			-4.2		
06-Mar-2006	08:00:00		-15.86			-3.8		
06-Mar-2006	20:00:00		-14.53			-3.2		
07-Mar-2006	08:00:00		-15.71			-3.6		
07-Mar-2006	20:00:00		-16.59			-4.2		
08-Mar-2006	08:00:00		-17.1			-4.4		
08-Mar-2006	20:00:00		-16.93			-4.4		
09-Mar-2006	08:00:00		-17.09			-4.2		
09-Mar-2006	20:00:00		-17.17			-4.4		
10-Mar-2006	08:00:00		-17.3			-4.2		
10-Mar-2006	20:00:00		-17.66			-4.4		
11-Mar-2006	08:00:00		-18.08			-4		
11-Mar-2006	20:00:00		-17.78			-3.6		
12-Mar-2006	08:00:00		-17.08			-2.8		
12-Mar-2006	20:00:00		-17.01			-3.8		
13-Mar-2006	08:00:00		-17.24			-3.2		
13-Mar-2006	20:00:00		-17.06			-4		
14-Mar-2006	08:00:00		-17.3			-3.4		
14-Mar-2006	20:00:00		-18.43			-4.2		
15-Mar-2006	08:00:00		-19.21			-4.6		
15-Mar-2006	20:00:00		-19.37			-4.9		
16-Mar-2006	08:00:00		-19.74			-4.9		
16-Mar-2006	20:00:00		-19.7			-5.1		
17-Mar-2006	08:00:00		-19.84			-4.9		
17-Mar-2006	20:00:00		-20.18			-5.3		
18-Mar-2006	08:00:00		-20.66			-5.3		
18-Mar-2006	20:00:00		-20.69			-5.5		
19-Mar-2006	08:00:00		-21.2			-5.7		
19-Mar-2006	20:00:00		-21.21			-5.7		
20-Mar-2006	08:00:00		-21.6			-5.9		
20-Mar-2006	20:00:00		-21.52			-3.8		
21-Mar-2006	08:00:00		3.07			2.3		
21-Mar-2006	20:00:00		2.45			2.1		
22-Mar-2006	08:00:00		1.63	-6	-4.25	1.3	-3	-12.5
22-Mar-2006	20:00:00		0.92			0.2		
23-Mar-2006	08:00:00		0.44			-1.1		
23-Mar-2006	20:00:00		-0.33			-1.5		
24-Mar-2006	08:00:00		-0.13			-1.7		
24-Mar-2006	20:00:00		-0.91			-2.3		
25-Mar-2006	08:00:00		-4.32			-2.7		
25-Mar-2006	20:00:00		-4.66			-2.1		
26-Mar-2006	08:00:00		-1.89			-2.8		
26-Mar-2006	20:00:00		-7.22			-3		
27-Mar-2006	08:00:00		-10.03			-3.6		
27-Mar-2006	20:00:00		-11.48			-3.6		
28-Mar-2006	08:00:00		-12.39			-3.8		
28-Mar-2006	20:00:00		-12.8			-3.8		
29-Mar-2006	08:00:00		-13.49			-4		
29-Mar-2006	20:00:00		-14.07			-4.2		
30-Mar-2006	08:00:00		-14.84			-4.4		
30-Mar-2006	20:00:00		-14.95			-4.6		
31-Mar-2006	08:00:00		-15.62			-4.6		
31-Mar-2006	20:00:00		-15.52			-4.6		
01-Apr-2006	08:00:00		-15.52			-3.8		
01-Apr-2006	20:00:00		-15.45			-4.2		
02-Apr-2006	08:00:00		-16.57			-4.4		

Cox 2006 Monitoring Data

		Water Level (inches)						
Date	Time	MW9	AW10	Ref-MW1	Ref-MW2	Ref-AW3	Ref-MW4	Ref-MW5
02-Apr-2006	20:00:00		-16.59			-4.7		
03-Apr-2006	08:00:00		-16.72			-3.8		
03-Apr-2006	20:00:00		-15.37			-3.2		
04-Apr-2006	08:00:00		-16.23			-2.8		
04-Apr-2006	20:00:00		-16.38			-3.6		
05-Apr-2006	08:00:00		-17.21			-4.2		
05-Apr-2006	20:00:00		-17.47			-4.6		
06-Apr-2006	08:00:00		-18.33			-5.1		
06-Apr-2006	20:00:00		-18.43			-5.3		
07-Apr-2006	08:00:00		-18.71			-4.9		
07-Apr-2006	20:00:00		-18.88			-5.7		
08-Apr-2006	08:00:00		-19.25			-5.3		
08-Apr-2006	20:00:00		-19.61			-4.4		
09-Apr-2006	08:00:00		-20.13			-4.4		
09-Apr-2006	20:00:00		-20.32			-5.1		
10-Apr-2006	08:00:00		-20.95			-5.5		
10-Apr-2006	20:00:00		-21.08			-5.9		
11-Apr-2006	08:00:00		-21.64			-6.1		
11-Apr-2006	20:00:00		-21.69			-6.4		
12-Apr-2006	08:00:00		-22.12			-6.3		
12-Apr-2006	20:00:00		-22.13			-6.8		
13-Apr-2006	08:00:00		-22.34			-6.3		
13-Apr-2006	20:00:00		-22.19			-7.4		
14-Apr-2006	08:00:00		-22.51			-6.3		
14-Apr-2006	20:00:00		-22.37			-8.2		
15-Apr-2006	08:00:00		-22.76			-7.2		
15-Apr-2006	20:00:00		-22.99			-9.7		
16-Apr-2006	08:00:00		-23.52			-8.3		
16-Apr-2006	20:00:00		-23.68			-10.6		
17-Apr-2006	08:00:00		-24.03			-9.1		
17-Apr-2006	20:00:00		-23.1			-3.8		
18-Apr-2006	08:00:00		-23.64			-5.1		
18-Apr-2006	20:00:00		-23.65			-6.6		
19-Apr-2006	08:00:00		-24.06			-6.6		
19-Apr-2006	20:00:00		-24.27			-8.5		
20-Apr-2006	08:00:00		-24.75			-8		
20-Apr-2006	20:00:00		-25.01			-10.6		
21-Apr-2006	08:00:00	-24.5	-25.39	-20	-21	-9.7	-16.5	-22
21-Apr-2006	20:00:00		-25.72			-12.1		
22-Apr-2006	08:00:00		-26			-10.6		
22-Apr-2006	20:00:00		-24.58			-3.2		
23-Apr-2006	08:00:00		-20.21			-1.5		
23-Apr-2006	20:00:00		-20.34			-4		
24-Apr-2006	08:00:00		-21.05			-4.6		
24-Apr-2006	20:00:00		-21.39			-6.1		
25-Apr-2006	08:00:00		-21.9			-5.5		
25-Apr-2006	20:00:00		-22.07			-8.9		
26-Apr-2006	08:00:00		-23.06			-8.3		
26-Apr-2006	20:00:00		-23.19			-3.2		
27-Apr-2006	08:00:00		-10.71			2.3		
27-Apr-2006	20:00:00		2.97			3		
28-Apr-2006	08:00:00		1.82			1.9		
28-Apr-2006	20:00:00		0.81			-0.4		
29-Apr-2006	08:00:00		0.18			-1.5		
29-Apr-2006	20:00:00		-5.86			-3		
30-Apr-2006	08:00:00		-9.42			-3.4		
30-Apr-2006	20:00:00		-12.48			-4.9		
01-May-2006	08:00:00		-13.37			-4.9		
01-May-2006	20:00:00		-14.33			-6.1		
02-May-2006	08:00:00		-15.04			-5.7		
02-May-2006	20:00:00		-15.29			-7.6		

Cox 2006 Monitoring Data

Date	Time	Water Level (inches)						
		MW9	AW10	Ref-MW1	Ref-MW2	Ref-AW3	Ref-MW4	Ref-MW5
03-May-2006	08:00:00		-16.08			-6.4		
03-May-2006	20:00:00		-16.66			-9.7		
04-May-2006	08:00:00		-17.48			-8.2		
04-May-2006	20:00:00		-17.78			-11.6		
05-May-2006	08:00:00		-18.4			-9.7		
05-May-2006	20:00:00		3.43			3.2		
06-May-2006	08:00:00		2.41			2.7		
06-May-2006	20:00:00		0.94			-0.4		
07-May-2006	08:00:00		0.24			-1.7		
07-May-2006	20:00:00		5.51			3.6		
08-May-2006	08:00:00		2.74			2.8		
08-May-2006	20:00:00		2.19			1.9		
09-May-2006	08:00:00		2.03			1.3		
09-May-2006	20:00:00		1.68			0		
10-May-2006	08:00:00		1.61			-0.6		
10-May-2006	20:00:00		1.46			-1.5		
11-May-2006	08:00:00		1.43			-1.3		
11-May-2006	20:00:00		1.55			-1.7		
12-May-2006	08:00:00		1.12			-2.3		
12-May-2006	20:00:00		-1.61			-4		
13-May-2006	08:00:00		-5.65			-3.8		
13-May-2006	20:00:00		-9.23			-5.5		
14-May-2006	08:00:00		-8.66			-4.4		
14-May-2006	20:00:00		-6.12			-3.8		
15-May-2006	08:00:00		2.21			2.3		
15-May-2006	20:00:00		1.43			0		
16-May-2006	08:00:00		1.14			-0.8		
16-May-2006	20:00:00		0.2			-2.1		
17-May-2006	08:00:00		0.37			-2.5		
17-May-2006	20:00:00		-2.59			-4.4		
18-May-2006	08:00:00	-3	-6.9	-16.5	-11.5	-4	-10	-19.5
18-May-2006	20:00:00		-6.1			-3.4		
19-May-2006	08:00:00		-0.35			-2.8		
19-May-2006	20:00:00		-7.18			-5.5		
20-May-2006	08:00:00		-9.84			-4.7		
20-May-2006	20:00:00		-12.43			-7.2		
21-May-2006	08:00:00		-12.98			-5.1		
21-May-2006	20:00:00		-14.16			-9.3		
22-May-2006	08:00:00		-15.43			-7.8		
22-May-2006	20:00:00		-16.1			-10.6		
23-May-2006	08:00:00		-16.91			-8.3		
23-May-2006	20:00:00		-17.33			-12.5		
24-May-2006	08:00:00		-18.09			-10.1		
24-May-2006	20:00:00		-18.2			-13.7		
25-May-2006	08:00:00		-18.75			-11		
25-May-2006	20:00:00		-18.86			-14.6		
26-May-2006	08:00:00		-19.44			-12.3		
26-May-2006	20:00:00		-19.71			-16.1		
27-May-2006	08:00:00		-20.43			-14		
27-May-2006	20:00:00		-20.92			-17.6		
28-May-2006	08:00:00		-21.62			-15.4		
28-May-2006	20:00:00		-21.9			-18.8		
29-May-2006	08:00:00		-22.49			-16.5		
29-May-2006	20:00:00		-22.67			-19.9		
30-May-2006	08:00:00		-23.21			-17.8		
30-May-2006	20:00:00		-23.49			-21.2		
31-May-2006	08:00:00		-24.12			-19.2		
31-May-2006	20:00:00		-24.42			-22.2		
01-Jun-2006	08:00:00		-24.95			-20.3		
01-Jun-2006	20:00:00		-25.15			-23.3		
02-Jun-2006	08:00:00		-25.7			-21.4		

Cox 2006 Monitoring Data

Date	Time	Water Level (inches)						
		MW9	AW10	Ref-MW1	Ref-MW2	Ref-AW3	Ref-MW4	Ref-MW5
02-Jun-2006	20:00:00		-26			-23.5		
03-Jun-2006	08:00:00		-26.05			-17.8		
03-Jun-2006	20:00:00		-24.77			-12.1		
04-Jun-2006	08:00:00		-25.06			-11.6		
04-Jun-2006	20:00:00		-25.17			-16.3		
05-Jun-2006	08:00:00		-25.87			-14.4		
05-Jun-2006	20:00:00		-26.18			-17.6		
06-Jun-2006	08:00:00		1.21			-0.8		
06-Jun-2006	20:00:00		-6.04			-4.6		
07-Jun-2006	08:00:00		-13.12			-5.5		
07-Jun-2006	20:00:00		-16.08			-10.6		
08-Jun-2006	08:00:00		-17.85			-9.7		
08-Jun-2006	20:00:00		-14.78			-4.9		
09-Jun-2006	08:00:00		-16.48			-5.1		
09-Jun-2006	20:00:00		-18.02			-10.6		
10-Jun-2006	08:00:00		-19.47			-9.9		
10-Jun-2006	20:00:00		-20.13			-14.8		
11-Jun-2006	08:00:00		-21.13			-13.1		
11-Jun-2006	20:00:00		-20.54			-16.5		
12-Jun-2006	08:00:00		-19.01			-6.1		
12-Jun-2006	20:00:00		4.34			3		
13-Jun-2006	08:00:00		2.14			0		
13-Jun-2006	20:00:00		1.08			-2.1		
14-Jun-2006	08:00:00		3.51			3.6		
14-Jun-2006	20:00:00		3.51			4.2		
15-Jun-2006	08:00:00		2.39			2.7		
15-Jun-2006	20:00:00		1.6			-0.6		
16-Jun-2006	08:00:00		1.6			-0.9		
16-Jun-2006	20:00:00		0.74			-3.2		
17-Jun-2006	08:00:00		0.67			-3		
17-Jun-2006	20:00:00		-1.93			-5.7		
18-Jun-2006	08:00:00		-5.58			-4.6		
18-Jun-2006	20:00:00		-9.38			-8.5		
19-Jun-2006	08:00:00		-11.62			-6.3		
19-Jun-2006	20:00:00		-13.4			-11		
20-Jun-2006	08:00:00		-14.34			-8.3		
20-Jun-2006	20:00:00		-15.23			-14		
21-Jun-2006	08:00:00		-16.13			-10.8		
21-Jun-2006	20:00:00		3.11			3		
22-Jun-2006	08:00:00		1.95			1		
22-Jun-2006	20:00:00		1.1			-1.9		
23-Jun-2006	08:00:00		0.86			-2.1	-8.5	-18
23-Jun-2006	20:00:00		-0.77			-4.4		
24-Jun-2006	08:00:00		-1.07			-4		
24-Jun-2006	20:00:00		-5.84			-6.8		
25-Jun-2006	08:00:00		-9.42			-5.1		
25-Jun-2006	20:00:00		4.13			3.6		
26-Jun-2006	08:00:00		2.24			2.1		
26-Jun-2006	20:00:00		2.32			1		
27-Jun-2006	08:00:00		1.86			0		
27-Jun-2006	20:00:00		2.77			2.5		
28-Jun-2006	08:00:00		2.08			1.1		
28-Jun-2006	20:00:00		1.13			-1.3		
29-Jun-2006	08:00:00		1.07			-1.5		
29-Jun-2006	20:00:00		0.04			-4.4		
30-Jun-2006	08:00:00		-0.07			-3.6		
30-Jun-2006	20:00:00		-4.92			-7		
01-Jul-2006	08:00:00		-9.96			-5.1		
01-Jul-2006	20:00:00		-12.91			-10.2		
02-Jul-2006	08:00:00		-14.43			-7.8		
02-Jul-2006	20:00:00		-15.61			-13.7		

Cox 2006 Monitoring Data

Date	Time	Water Level (inches)						
		MW9	AW10	Ref-MW1	Ref-MW2	Ref-AW3	Ref-MW4	Ref-MW5
03-Jul-2006	08:00:00		-16.57			-10.4		
03-Jul-2006	20:00:00		-17.24			-15.2		
04-Jul-2006	08:00:00		1.33			-2.5		
04-Jul-2006	20:00:00		-0.34			-6.6		
05-Jul-2006	08:00:00		-5.02			-5.9		
05-Jul-2006	20:00:00		-11.76			-12.5		
06-Jul-2006	08:00:00		-14.32			-9.9		
06-Jul-2006	20:00:00		3.08			3.4		
07-Jul-2006	08:00:00		1.94			1.9		
07-Jul-2006	20:00:00		0.87			-1.3		
08-Jul-2006	08:00:00		0.58			-1.9		
08-Jul-2006	20:00:00		-0.52			-4.4		
09-Jul-2006	08:00:00		-1.02			-4		
09-Jul-2006	20:00:00		-6.4			-7.4		
10-Jul-2006	08:00:00		-10.5			-5.7		
10-Jul-2006	20:00:00		-13.72			-10.8		
11-Jul-2006	08:00:00		-15.06			-8.3		
11-Jul-2006	20:00:00		-16.24			-14.4		
12-Jul-2006	08:00:00		-17.28			-11		
12-Jul-2006	20:00:00		-17.95			-16.1		
13-Jul-2006	08:00:00		-18.78			-13.5		
13-Jul-2006	20:00:00		-19.29			-18.2		
14-Jul-2006	08:00:00		-20.1			-15.4		
14-Jul-2006	20:00:00		-20.58			-19.5		
15-Jul-2006	08:00:00		-21.25			-17.3		
15-Jul-2006	20:00:00		-21.59			-21.4		
16-Jul-2006	08:00:00		-22.15			-16.9		
16-Jul-2006	20:00:00		-22.5			-22		
17-Jul-2006	08:00:00		-23.19			-19.5		
17-Jul-2006	20:00:00		-23.63			-23.5		
18-Jul-2006	08:00:00	-23.5	-24.34	-32.25	-35.25	-21.2	-34.25	
18-Jul-2006	20:00:00		-24.81			-25.4		
19-Jul-2006	08:00:00		-25.55			-23.5		
19-Jul-2006	20:00:00		-25.96			-26.2		
20-Jul-2006	08:00:00		-26.58			-19.9		
20-Jul-2006	20:00:00		-26.98			-22		
21-Jul-2006	08:00:00		-27.48			-20.3		
21-Jul-2006	20:00:00		-27.93			-25.6		
22-Jul-2006	08:00:00		-28.53			-24.9		
22-Jul-2006	20:00:00		-24.69			-26.8		
23-Jul-2006	08:00:00		-28.61			-17.5		
23-Jul-2006	20:00:00		-12.01			-7.2		
24-Jul-2006	08:00:00		-19.31			-7		
24-Jul-2006	20:00:00		-21.33			-12.1		
25-Jul-2006	08:00:00		-22.6			-11.2		
25-Jul-2006	20:00:00		-23.35			-11.6		
26-Jul-2006	08:00:00		-24.18			-10.8		
26-Jul-2006	20:00:00		-24.88			-14.8		
27-Jul-2006	08:00:00		-25.71			-13.8		
27-Jul-2006	20:00:00		-26.62			-17.8		
28-Jul-2006	08:00:00		-27.58			-16.1		
28-Jul-2006	20:00:00		-28.48			-19.5		
29-Jul-2006	08:00:00		-29.34			-17.5		
29-Jul-2006	20:00:00		-30.07			-21.2		
30-Jul-2006	08:00:00		-30.75			-19.2		
30-Jul-2006	20:00:00		-31.44			-22.8		
31-Jul-2006	08:00:00		-32.17			-20.9		
31-Jul-2006	20:00:00		-32.93			-25.4		
01-Aug-2006	08:00:00		-33.68			-24.9		
01-Aug-2006	20:00:00		-34.35			-27.1		
02-Aug-2006	08:00:00		-34.99			-27.1		

Cox 2006 Monitoring Data

		Water Level (inches)						
Date	Time	MW9	AW10	Ref-MW1	Ref-MW2	Ref-AW3	Ref-MW4	Ref-MW5
02-Aug-2006	20:00:00		-35.57			-28.5		
03-Aug-2006	08:00:00		-36.14			-28.5		
03-Aug-2006	20:00:00		-36.66			-29.2		
04-Aug-2006	08:00:00		-37.23			-29.6		
04-Aug-2006	20:00:00		-37.75			-30.2		
05-Aug-2006	08:00:00		-38.27			-30.5		
05-Aug-2006	20:00:00		-38.75			-31.1		
06-Aug-2006	08:00:00		-39.93			-31.3		
06-Aug-2006	20:00:00		-40.56			-31.9		
07-Aug-2006	08:00:00		-41.1			-32.1		
07-Aug-2006	20:00:00		-41.45			-32.1		
08-Aug-2006	08:00:00		-41.91			-32.4		
08-Aug-2006	20:00:00		-42.19			-32.6		
09-Aug-2006	08:00:00		-42.74			-32.6		
09-Aug-2006	20:00:00		-42.94			-33		
10-Aug-2006	08:00:00		-43.43			-33		
10-Aug-2006	20:00:00		-43.67			-33.4		
11-Aug-2006	08:00:00		-44.21			-33.8		
11-Aug-2006	20:00:00		-43.73			-33.8		
12-Aug-2006	08:00:00		-44.11			-33.4		
12-Aug-2006	20:00:00		-44.36			-32.4		
13-Aug-2006	08:00:00		-44.63			-32.1		
13-Aug-2006	20:00:00		-44.85			-31.5		
14-Aug-2006	08:00:00		-45.1			-31.5		
14-Aug-2006	20:00:00		-45.35			-31.7		
15-Aug-2006	08:00:00		-45.65			-32.1		
15-Aug-2006	20:00:00		-45.91			-32.6		
16-Aug-2006	08:00:00		-46.35			-33		
16-Aug-2006	20:00:00		-46.68			-33.6		
17-Aug-2006	08:00:00		-47			-34		
17-Aug-2006	20:00:00		-47.28			-34.2		
18-Aug-2006	08:00:00		-47.57			-34.3		
18-Aug-2006	20:00:00		-47.84			-34.3		
19-Aug-2006	08:00:00		-48.17			-34.5		
19-Aug-2006	20:00:00		-48.57			-34.5		
20-Aug-2006	08:00:00		-48.77			-34.3		
20-Aug-2006	20:00:00		-49.44			-34.5		
21-Aug-2006	08:00:00		-46.57			-34.5		
21-Aug-2006	20:00:00		-48.59			-34.3		
22-Aug-2006	08:00:00		-49.05			-33.6		
22-Aug-2006	20:00:00		-49.28			-32.1		
23-Aug-2006	08:00:00	-57.5	-49.24	-26.5	-35	-22.4	-37	-38.5
23-Aug-2006	20:00:00		-49.09			-21.8		
24-Aug-2006	08:00:00		-48.83			-21.1		
24-Aug-2006	20:00:00		-49.25			-22.6		
25-Aug-2006	08:00:00		-49.23			-22		
25-Aug-2006	20:00:00		-50.11			-24.5		
26-Aug-2006	08:00:00		-50.27			-26.4		
26-Aug-2006	20:00:00		-50.87			-28.3		
27-Aug-2006	08:00:00		-50.49			-29.2		
27-Aug-2006	20:00:00		-50.57			-30.4		
28-Aug-2006	08:00:00		-50.67			-31.5		
28-Aug-2006	20:00:00		-50.88			-32.6		
29-Aug-2006	08:00:00		-51.1			-33.2		
29-Aug-2006	20:00:00		-50.97			-33.8		
30-Aug-2006	08:00:00		-50.95			-34.3		
30-Aug-2006	20:00:00		-48.13			-26		
31-Aug-2006	08:00:00		-49.21			-15.7		
31-Aug-2006	20:00:00		-44.85			-10.4		
01-Sep-2006	08:00:00		8.12			4.2		
01-Sep-2006	20:00:00		3.42			2.1		

Cox 2006 Monitoring Data

		Water Level (inches)						
Date	Time	MW9	AW10	Ref-MW1	Ref-MW2	Ref-AW3	Ref-MW4	Ref-MW5
02-Sep-2006	08:00:00		2.49			-1.3		
02-Sep-2006	20:00:00		1.09			-3.4		
03-Sep-2006	08:00:00		-1.42			-4		
03-Sep-2006	20:00:00		-7.81			-6.1		
04-Sep-2006	08:00:00		-10.87			-5.5		
04-Sep-2006	20:00:00		-13.98			-7.8		
05-Sep-2006	08:00:00		-6.25			-3		
05-Sep-2006	20:00:00		2.76			-1.7		
06-Sep-2006	08:00:00		2.5			-2.5		
06-Sep-2006	20:00:00		2.73			-4		
07-Sep-2006	08:00:00		0.73			-4.6		
07-Sep-2006	20:00:00		-3.72			-6.3		
08-Sep-2006	08:00:00		-8.52			-6.1		
08-Sep-2006	20:00:00		-13.19			-8.7		
09-Sep-2006	08:00:00		-14.54			-8		
09-Sep-2006	20:00:00		-16.38			-10.2		
10-Sep-2006	08:00:00		-17.1			-9.3		
10-Sep-2006	20:00:00		-18.73			-12.3		
11-Sep-2006	08:00:00		-19.48			-10.6		
11-Sep-2006	20:00:00		-20.8			-13.5		
12-Sep-2006	08:00:00		-21.39			-12.3		
12-Sep-2006	20:00:00		-22.53			-14.4		
13-Sep-2006	08:00:00		-22.93			-13.1		
13-Sep-2006	20:00:00		-23.09			-8		
14-Sep-2006	08:00:00		-16.85			-2.1		
14-Sep-2006	20:00:00		-16.43			-2.8		
15-Sep-2006	08:00:00		-17.39			-4		
15-Sep-2006	20:00:00		-18.92			-7		
16-Sep-2006	08:00:00		-19.56			-7.2		
16-Sep-2006	20:00:00		-20.46			-9.3		
17-Sep-2006	08:00:00		-21.01			-8.3		
17-Sep-2006	20:00:00		-22.04			-11.2		
18-Sep-2006	08:00:00		-22.61			-10.2		
18-Sep-2006	20:00:00		-23.67			-13.3		
19-Sep-2006	08:00:00		-24.06			-11.6		
19-Sep-2006	20:00:00		-17.73			-2.5		
20-Sep-2006	08:00:00		-3.22			-3.4		
20-Sep-2006	20:00:00		-7.95			-6.4		
21-Sep-2006	08:00:00	0.05	-17.55	-17	-22	-7	-15.5	-25
21-Sep-2006	20:00:00		-18.9			-9.7		
22-Sep-2006	08:00:00		-20.12			-8.9		
22-Sep-2006	20:00:00		-20.75			-10.8		
23-Sep-2006	08:00:00		-21.84			-9.5		
23-Sep-2006	20:00:00		-22.45			-12.3		
24-Sep-2006	08:00:00		-23.47			-10.8		
24-Sep-2006	20:00:00		-24.31			-13.8		
25-Sep-2006	08:00:00		-25.17			-12.7		
25-Sep-2006	20:00:00		-25.88			-14.8		
26-Sep-2006	08:00:00		-26.74			-13.7		
26-Sep-2006	20:00:00		-27.34			-15.9		
27-Sep-2006	08:00:00		-28.12			-14.6		
27-Sep-2006	20:00:00		-28.65			-16.9		
28-Sep-2006	08:00:00		-29.35			-15		
28-Sep-2006	20:00:00		-30.03			-17.6		
29-Sep-2006	08:00:00		-30.82			-13.5		
29-Sep-2006	20:00:00		-31.57			-15.2		
30-Sep-2006	08:00:00		-32.1			-14.4		
30-Sep-2006	20:00:00		-32.76			-16.7		
01-Oct-2006	08:00:00		-33.38			-15.4		
01-Oct-2006	20:00:00		-34.16			-18		
02-Oct-2006	08:00:00		-34.71			-16.5		

Cox 2006 Monitoring Data

		Water Level (inches)						
Date	Time	MW9	AW10	Ref-MW1	Ref-MW2	Ref-AW3	Ref-MW4	Ref-MW5
02-Oct-2006	20:00:00		-35.46			-19		
03-Oct-2006	08:00:00		-35.81			-17.3		
03-Oct-2006	20:00:00		-36.54			-19.7		
04-Oct-2006	08:00:00		-36.61			-18		
04-Oct-2006	20:00:00		-37.38			-20.3		
05-Oct-2006	08:00:00		-37.62			-19		
05-Oct-2006	20:00:00		-38.08			-20.3		
06-Oct-2006	08:00:00		-38.23			-18.8		
06-Oct-2006	20:00:00		-38.52			-15		
07-Oct-2006	08:00:00		-38.88			-14.2		
07-Oct-2006	20:00:00		-35.06			-14.2		
08-Oct-2006	08:00:00		-32.17			-5.1		
08-Oct-2006	20:00:00		-32.11			-4		
09-Oct-2006	08:00:00		-31.88			-5.1		
09-Oct-2006	20:00:00		-31.66			-6.4		
10-Oct-2006	08:00:00		-31.76			-6.6		
10-Oct-2006	20:00:00		-31.87			-9.3		
11-Oct-2006	08:00:00		-31.99			-9.1		
11-Oct-2006	20:00:00		-32.19			-10.1		
12-Oct-2006	08:00:00		-32.82			-9.5		
12-Oct-2006	20:00:00		-33.69			-12.3		
13-Oct-2006	08:00:00		-34.3			-12.3		
13-Oct-2006	20:00:00		-35.09			-13.7		
14-Oct-2006	08:00:00		-35.67			-13.1		
14-Oct-2006	20:00:00		-36.37			-14.8		
15-Oct-2006	08:00:00		-36.96			-14		
15-Oct-2006	20:00:00		-37.63			-15.2		
16-Oct-2006	08:00:00		-38.05			-14.4		
16-Oct-2006	20:00:00		-38.34			-15.2		
17-Oct-2006	08:00:00		-38.21			-14		
17-Oct-2006	20:00:00		3.13			-7.2		
18-Oct-2006	08:00:00		2.24			1		
18-Oct-2006	20:00:00		1.29			-1.5		
19-Oct-2006	08:00:00	2	1.29	-12	-15.5	-2.7	-9.5	-18
19-Oct-2006	20:00:00		-0.01			-3.6		
20-Oct-2006	08:00:00		-4.95			-3.6		
20-Oct-2006	20:00:00		-11.91			-5.3		
21-Oct-2006	08:00:00		-15.46			-6.1		
21-Oct-2006	20:00:00		-17.12			-7.6		
22-Oct-2006	08:00:00		-18.1			-7.4		
22-Oct-2006	20:00:00		-12.89			-2.7		
23-Oct-2006	08:00:00		-7.67			-3.8		
23-Oct-2006	20:00:00		-11.93			-5.1		
24-Oct-2006	08:00:00		-15.52			-5.7		
24-Oct-2006	20:00:00		-17.14			-7		
25-Oct-2006	08:00:00		-18.49			-7		
25-Oct-2006	20:00:00		-19.11			-7.6		
26-Oct-2006	08:00:00		-19.98			-7.6		
26-Oct-2006	20:00:00		-20.52			-7.8		
27-Oct-2006	08:00:00		-20.99			-7.4		
27-Oct-2006	20:00:00		-13.94			-1.7		
28-Oct-2006	08:00:00		4.91			3.4		
28-Oct-2006	20:00:00		3.32			1.3		
29-Oct-2006	08:00:00		2.68			-0.9		
29-Oct-2006	20:00:00		2.23			-1.7		
30-Oct-2006	08:00:00		1.69			-2.5		
30-Oct-2006	20:00:00		1.47			-3.2		
31-Oct-2006	08:00:00		0.92			-3.2		
31-Oct-2006	20:00:00		0.69			-3.8		
01-Nov-2006	08:00:00		-0.05			-3.6		
01-Nov-2006	20:00:00		-2.05			-4.2		

Cox 2006 Monitoring Data

		Water Level (inches)						
Date	Time	MW9	AW10	Ref-MW1	Ref-MW2	Ref-AW3	Ref-MW4	Ref-MW5
02-Nov-2006	08:00:00		-4.95			-3.8		
02-Nov-2006	20:00:00		-8.36			-4.4		
03-Nov-2006	08:00:00		-11.08			-4.7		
03-Nov-2006	20:00:00		-12.46			-5.1		
04-Nov-2006	08:00:00		-13.75			-5.3		
04-Nov-2006	20:00:00		-14.14			-5.3		
05-Nov-2006	08:00:00		-14.92			-5.5		
05-Nov-2006	20:00:00		-15.12			-5.3		
06-Nov-2006	08:00:00		-15.81			-5.3		
06-Nov-2006	20:00:00		-15.7			-5.3		
07-Nov-2006	08:00:00		-15.8			-4.9		
07-Nov-2006	20:00:00		5.64			3		
08-Nov-2006	08:00:00		3.81			2.8		
08-Nov-2006	20:00:00		3.3			1.3		
09-Nov-2006	08:00:00		2.89			-0.4		
09-Nov-2006	20:00:00		2.57			-1.1		
10-Nov-2006	08:00:00		2.09			-2.1		
10-Nov-2006	20:00:00		1.91			-2.3		
11-Nov-2006	08:00:00		1.43			-2.3		
11-Nov-2006	20:00:00		1.51			-2.8		
12-Nov-2006	08:00:00		3.31			1.1		
12-Nov-2006	20:00:00		3.66			1		
13-Nov-2006	08:00:00	4	3.02	-12	-8.5	-0.6	-5.5	-14.5

Cox 2006 Monitoring Data

Date	Time	CG	On-site RG	Smithfield RG
01-Jan-2006	08:00:00			
01-Jan-2006	20:00:00			0.02
02-Jan-2006	08:00:00			
02-Jan-2006	20:00:00			0
03-Jan-2006	08:00:00			
03-Jan-2006	20:00:00			0.6
04-Jan-2006	08:00:00			
04-Jan-2006	20:00:00			0.05
05-Jan-2006	08:00:00			
05-Jan-2006	20:00:00			0
06-Jan-2006	08:00:00			
06-Jan-2006	20:00:00			0.07
07-Jan-2006	08:00:00			
07-Jan-2006	20:00:00			0
08-Jan-2006	08:00:00			
08-Jan-2006	20:00:00			0
09-Jan-2006	08:00:00			
09-Jan-2006	20:00:00			0
10-Jan-2006	08:00:00			
10-Jan-2006	20:00:00			0
11-Jan-2006	08:00:00			
11-Jan-2006	20:00:00			0
12-Jan-2006	08:00:00			
12-Jan-2006	20:00:00			0.45
13-Jan-2006	08:00:00			
13-Jan-2006	20:00:00			0.01
14-Jan-2006	08:00:00			
14-Jan-2006	20:00:00			0.09
15-Jan-2006	08:00:00			
15-Jan-2006	20:00:00			0.01
16-Jan-2006	08:00:00			
16-Jan-2006	20:00:00			0
17-Jan-2006	08:00:00			
17-Jan-2006	20:00:00			0.02
18-Jan-2006	08:00:00			
18-Jan-2006	20:00:00			0.3
19-Jan-2006	08:00:00			
19-Jan-2006	20:00:00			0.04
20-Jan-2006	08:00:00			
20-Jan-2006	20:00:00			0
21-Jan-2006	08:00:00			
21-Jan-2006	20:00:00			0
22-Jan-2006	08:00:00			
22-Jan-2006	20:00:00			0.22
23-Jan-2006	08:00:00			
23-Jan-2006	20:00:00			0.05
24-Jan-2006	08:00:00			
24-Jan-2006	20:00:00			0.15
25-Jan-2006	08:00:00			
25-Jan-2006	20:00:00			0
26-Jan-2006	08:00:00			
26-Jan-2006	20:00:00			0
27-Jan-2006	08:00:00			
27-Jan-2006	20:00:00			0
28-Jan-2006	08:00:00			
28-Jan-2006	20:00:00			0
29-Jan-2006	08:00:00			
29-Jan-2006	20:00:00			0
30-Jan-2006	08:00:00			
30-Jan-2006	20:00:00			0
31-Jan-2006	08:00:00			

Cox 2006 Monitoring Data

Date	Time	CG	On-site RG	Smithfield RG
31-Jan-2006	20:00:00			0.11
01-Feb-2006	08:00:00			
01-Feb-2006	20:00:00			0.07
02-Feb-2006	08:00:00			
02-Feb-2006	20:00:00			0
03-Feb-2006	08:00:00			
03-Feb-2006	20:00:00			0.05
04-Feb-2006	08:00:00			
04-Feb-2006	20:00:00			0.02
05-Feb-2006	08:00:00			
05-Feb-2006	20:00:00			0.15
06-Feb-2006	08:00:00			
06-Feb-2006	20:00:00			0.01
07-Feb-2006	08:00:00			
07-Feb-2006	20:00:00			0.01
08-Feb-2006	08:00:00			
08-Feb-2006	20:00:00			0
09-Feb-2006	08:00:00			
09-Feb-2006	20:00:00			0
10-Feb-2006	08:00:00			
10-Feb-2006	20:00:00			0
11-Feb-2006	08:00:00			
11-Feb-2006	20:00:00			0
12-Feb-2006	08:00:00			
12-Feb-2006	20:00:00			0.4
13-Feb-2006	08:00:00			
13-Feb-2006	20:00:00			0
14-Feb-2006	08:00:00			
14-Feb-2006	20:00:00			0.02
15-Feb-2006	08:00:00			
15-Feb-2006	20:00:00			0
16-Feb-2006	08:00:00			
16-Feb-2006	20:00:00			0
17-Feb-2006	08:00:00			
17-Feb-2006	20:00:00			0
18-Feb-2006	08:00:00			
18-Feb-2006	20:00:00			0
19-Feb-2006	08:00:00			
19-Feb-2006	20:00:00			0.03
20-Feb-2006	08:00:00			
20-Feb-2006	20:00:00			0.02
21-Feb-2006	08:00:00			
21-Feb-2006	20:00:00			0
22-Feb-2006	08:00:00			
22-Feb-2006	20:00:00			0
23-Feb-2006	08:00:00			
23-Feb-2006	20:00:00			0.5
24-Feb-2006	08:00:00			
24-Feb-2006	20:00:00			0.09
25-Feb-2006	08:00:00			
25-Feb-2006	20:00:00			0
26-Feb-2006	08:00:00			
26-Feb-2006	20:00:00			0.02
27-Feb-2006	08:00:00			
27-Feb-2006	20:00:00			0
28-Feb-2006	08:00:00			
28-Feb-2006	20:00:00			0
01-Mar-2006	08:00:00			
01-Mar-2006	20:00:00			0
02-Mar-2006	08:00:00			
02-Mar-2006	20:00:00			0

Cox 2006 Monitoring Data

Date	Time	CG	On-site RG	Smithfield RG
03-Mar-2006	08:00:00			
03-Mar-2006	20:00:00			0
04-Mar-2006	08:00:00			
04-Mar-2006	20:00:00			0
05-Mar-2006	08:00:00			
05-Mar-2006	20:00:00			0
06-Mar-2006	08:00:00			
06-Mar-2006	20:00:00			0.01
07-Mar-2006	08:00:00			
07-Mar-2006	20:00:00			0.15
08-Mar-2006	08:00:00			
08-Mar-2006	20:00:00			0
09-Mar-2006	08:00:00			
09-Mar-2006	20:00:00			0.01
10-Mar-2006	08:00:00			
10-Mar-2006	20:00:00			0
11-Mar-2006	08:00:00			
11-Mar-2006	20:00:00			0
12-Mar-2006	08:00:00			
12-Mar-2006	20:00:00			0
13-Mar-2006	08:00:00			
13-Mar-2006	20:00:00			0
14-Mar-2006	08:00:00			
14-Mar-2006	20:00:00			0
15-Mar-2006	08:00:00			
15-Mar-2006	20:00:00			0
16-Mar-2006	08:00:00			
16-Mar-2006	20:00:00			0
17-Mar-2006	08:00:00			
17-Mar-2006	20:00:00			0
18-Mar-2006	08:00:00			
18-Mar-2006	20:00:00			0
19-Mar-2006	08:00:00			
19-Mar-2006	20:00:00			0
20-Mar-2006	08:00:00			
20-Mar-2006	20:00:00			0
21-Mar-2006	08:00:00			
21-Mar-2006	20:00:00			0.9
22-Mar-2006	08:00:00			
22-Mar-2006	20:00:00			0.26
23-Mar-2006	08:00:00			
23-Mar-2006	20:00:00			0
24-Mar-2006	08:00:00			
24-Mar-2006	20:00:00			0
25-Mar-2006	08:00:00			
25-Mar-2006	20:00:00			0
26-Mar-2006	08:00:00			
26-Mar-2006	20:00:00			0
27-Mar-2006	08:00:00			
27-Mar-2006	20:00:00			0
28-Mar-2006	08:00:00			
28-Mar-2006	20:00:00			0
29-Mar-2006	08:00:00			
29-Mar-2006	20:00:00			0
30-Mar-2006	08:00:00			
30-Mar-2006	20:00:00			0
31-Mar-2006	08:00:00			
31-Mar-2006	20:00:00			0.02
01-Apr-2006	08:00:00			
01-Apr-2006	20:00:00			0.04
02-Apr-2006	08:00:00			

Cox 2006 Monitoring Data

Date	Time	CG	On-site RG	Smithfield RG
02-Apr-2006	20:00:00			0
03-Apr-2006	08:00:00			
03-Apr-2006	20:00:00			0.19
04-Apr-2006	08:00:00			
04-Apr-2006	20:00:00			0.5
05-Apr-2006	08:00:00			
05-Apr-2006	20:00:00			0.01
06-Apr-2006	08:00:00			
06-Apr-2006	20:00:00			0
07-Apr-2006	08:00:00			
07-Apr-2006	20:00:00			0
08-Apr-2006	08:00:00			
08-Apr-2006	20:00:00			0
09-Apr-2006	08:00:00			
09-Apr-2006	20:00:00			0.4
10-Apr-2006	08:00:00			
10-Apr-2006	20:00:00			0.01
11-Apr-2006	08:00:00			
11-Apr-2006	20:00:00			0
12-Apr-2006	08:00:00			
12-Apr-2006	20:00:00			0
13-Apr-2006	08:00:00			
13-Apr-2006	20:00:00			0
14-Apr-2006	08:00:00			
14-Apr-2006	20:00:00			0.04
15-Apr-2006	08:00:00			
15-Apr-2006	20:00:00			0.02
16-Apr-2006	08:00:00			
16-Apr-2006	20:00:00			0
17-Apr-2006	08:00:00			
17-Apr-2006	20:00:00			0.04
18-Apr-2006	08:00:00			
18-Apr-2006	20:00:00			0.24
19-Apr-2006	08:00:00			
19-Apr-2006	20:00:00			0
20-Apr-2006	08:00:00			
20-Apr-2006	20:00:00			0
21-Apr-2006	08:00:00	0.3	0.91	
21-Apr-2006	20:00:00			0.06
22-Apr-2006	08:00:00			
22-Apr-2006	20:00:00			0
23-Apr-2006	08:00:00			
23-Apr-2006	20:00:00			0.35
24-Apr-2006	08:00:00			
24-Apr-2006	20:00:00			0.15
25-Apr-2006	08:00:00			
25-Apr-2006	20:00:00			0.09
26-Apr-2006	08:00:00			
26-Apr-2006	20:00:00			0.03
27-Apr-2006	08:00:00			
27-Apr-2006	20:00:00			0.72
28-Apr-2006	08:00:00			
28-Apr-2006	20:00:00			0.77
29-Apr-2006	08:00:00			
29-Apr-2006	20:00:00			0
30-Apr-2006	08:00:00			
30-Apr-2006	20:00:00			0
01-May-2006	08:00:00			
01-May-2006	20:00:00			0
02-May-2006	08:00:00			
02-May-2006	20:00:00			0

Cox 2006 Monitoring Data

Date	Time	CG	On-site RG	Smithfield RG
03-May-2006	08:00:00			
03-May-2006	20:00:00			0.19
04-May-2006	08:00:00			
04-May-2006	20:00:00			0
05-May-2006	08:00:00			
05-May-2006	20:00:00			0.16
06-May-2006	08:00:00			
06-May-2006	20:00:00			0.43
07-May-2006	08:00:00			
07-May-2006	20:00:00			0.01
08-May-2006	08:00:00			
08-May-2006	20:00:00			1.46
09-May-2006	08:00:00			
09-May-2006	20:00:00			0.02
10-May-2006	08:00:00			
10-May-2006	20:00:00			0
11-May-2006	08:00:00			
11-May-2006	20:00:00			0
12-May-2006	08:00:00			
12-May-2006	20:00:00			0
13-May-2006	08:00:00			
13-May-2006	20:00:00			0.07
14-May-2006	08:00:00			
14-May-2006	20:00:00			0.15
15-May-2006	08:00:00			
15-May-2006	20:00:00			0.81
16-May-2006	08:00:00			
16-May-2006	20:00:00			0.2
17-May-2006	08:00:00			
17-May-2006	20:00:00			0.07
18-May-2006	08:00:00	0.15	6.72	
18-May-2006	20:00:00			0.05
19-May-2006	08:00:00			
19-May-2006	20:00:00			0.96
20-May-2006	08:00:00			
20-May-2006	20:00:00			0.01
21-May-2006	08:00:00			
21-May-2006	20:00:00			0.12
22-May-2006	08:00:00			
22-May-2006	20:00:00			0.04
23-May-2006	08:00:00			
23-May-2006	20:00:00			0
24-May-2006	08:00:00			
24-May-2006	20:00:00			0.01
25-May-2006	08:00:00			
25-May-2006	20:00:00			0
26-May-2006	08:00:00			
26-May-2006	20:00:00			0.04
27-May-2006	08:00:00			
27-May-2006	20:00:00			0.34
28-May-2006	08:00:00			
28-May-2006	20:00:00			0
29-May-2006	08:00:00			
29-May-2006	20:00:00			0
30-May-2006	08:00:00			
30-May-2006	20:00:00			0
31-May-2006	08:00:00			
31-May-2006	20:00:00			0.01
01-Jun-2006	08:00:00			
01-Jun-2006	20:00:00			0.1
02-Jun-2006	08:00:00			

Cox 2006 Monitoring Data

Date	Time	CG	On-site RG	Smithfield RG
02-Jun-2006	20:00:00			0
03-Jun-2006	08:00:00			
03-Jun-2006	20:00:00			0.05
04-Jun-2006	08:00:00			
04-Jun-2006	20:00:00			0.51
05-Jun-2006	08:00:00			
05-Jun-2006	20:00:00			0.51
06-Jun-2006	08:00:00			
06-Jun-2006	20:00:00			0.01
07-Jun-2006	08:00:00			
07-Jun-2006	20:00:00			0.08
08-Jun-2006	08:00:00			
08-Jun-2006	20:00:00			0
09-Jun-2006	08:00:00			
09-Jun-2006	20:00:00			0.75
10-Jun-2006	08:00:00			
10-Jun-2006	20:00:00			0
11-Jun-2006	08:00:00			
11-Jun-2006	20:00:00			0.04
12-Jun-2006	08:00:00			
12-Jun-2006	20:00:00			0.55
13-Jun-2006	08:00:00			
13-Jun-2006	20:00:00			0.03
14-Jun-2006	08:00:00			
14-Jun-2006	20:00:00			0.35
15-Jun-2006	08:00:00			
15-Jun-2006	20:00:00			2.18
16-Jun-2006	08:00:00			
16-Jun-2006	20:00:00			0
17-Jun-2006	08:00:00			
17-Jun-2006	20:00:00			0
18-Jun-2006	08:00:00			
18-Jun-2006	20:00:00			0
19-Jun-2006	08:00:00			
19-Jun-2006	20:00:00			0
20-Jun-2006	08:00:00			
20-Jun-2006	20:00:00			0
21-Jun-2006	08:00:00			
21-Jun-2006	20:00:00			0
22-Jun-2006	08:00:00			
22-Jun-2006	20:00:00			0.42
23-Jun-2006	08:00:00		7.9	
23-Jun-2006	20:00:00			0
24-Jun-2006	08:00:00			
24-Jun-2006	20:00:00			0.03
25-Jun-2006	08:00:00			
25-Jun-2006	20:00:00			0
26-Jun-2006	08:00:00			
26-Jun-2006	20:00:00			0.6
27-Jun-2006	08:00:00			
27-Jun-2006	20:00:00			0.04
28-Jun-2006	08:00:00			
28-Jun-2006	20:00:00			0.56
29-Jun-2006	08:00:00			
29-Jun-2006	20:00:00			0.01
30-Jun-2006	08:00:00			
30-Jun-2006	20:00:00			0
01-Jul-2006	08:00:00			
01-Jul-2006	20:00:00			0
02-Jul-2006	08:00:00			
02-Jul-2006	20:00:00			0

Cox 2006 Monitoring Data

Date	Time	CG	On-site RG	Smithfield RG
03-Jul-2006	08:00:00			
03-Jul-2006	20:00:00			0
04-Jul-2006	08:00:00			
04-Jul-2006	20:00:00			0
05-Jul-2006	08:00:00			
05-Jul-2006	20:00:00			0
06-Jul-2006	08:00:00			
06-Jul-2006	20:00:00			0
07-Jul-2006	08:00:00			
07-Jul-2006	20:00:00			0.66
08-Jul-2006	08:00:00			
08-Jul-2006	20:00:00			0
09-Jul-2006	08:00:00			
09-Jul-2006	20:00:00			0
10-Jul-2006	08:00:00			
10-Jul-2006	20:00:00			0
11-Jul-2006	08:00:00			
11-Jul-2006	20:00:00			0
12-Jul-2006	08:00:00			
12-Jul-2006	20:00:00			0
13-Jul-2006	08:00:00			
13-Jul-2006	20:00:00			0
14-Jul-2006	08:00:00			
14-Jul-2006	20:00:00			0.01
15-Jul-2006	08:00:00			
15-Jul-2006	20:00:00			0
16-Jul-2006	08:00:00			
16-Jul-2006	20:00:00			0
17-Jul-2006	08:00:00			
17-Jul-2006	20:00:00			0
18-Jul-2006	08:00:00	0	3.95	
18-Jul-2006	20:00:00			0
19-Jul-2006	08:00:00			
19-Jul-2006	20:00:00			0.03
20-Jul-2006	08:00:00			
20-Jul-2006	20:00:00			0.04
21-Jul-2006	08:00:00			
21-Jul-2006	20:00:00			1.55
22-Jul-2006	08:00:00			
22-Jul-2006	20:00:00			0
23-Jul-2006	08:00:00			
23-Jul-2006	20:00:00			0
24-Jul-2006	08:00:00			
24-Jul-2006	20:00:00			2.08
25-Jul-2006	08:00:00			
25-Jul-2006	20:00:00			0.01
26-Jul-2006	08:00:00			
26-Jul-2006	20:00:00			0.34
27-Jul-2006	08:00:00			
27-Jul-2006	20:00:00			0
28-Jul-2006	08:00:00			
28-Jul-2006	20:00:00			0.14
29-Jul-2006	08:00:00			
29-Jul-2006	20:00:00			0.4
30-Jul-2006	08:00:00			
30-Jul-2006	20:00:00			0.2
31-Jul-2006	08:00:00			
31-Jul-2006	20:00:00			0.03
01-Aug-2006	08:00:00			
01-Aug-2006	20:00:00			0
02-Aug-2006	08:00:00			

Cox 2006 Monitoring Data

Date	Time	CG	On-site RG	Smithfield RG
02-Aug-2006	20:00:00			0
03-Aug-2006	08:00:00			
03-Aug-2006	20:00:00			0
04-Aug-2006	08:00:00			
04-Aug-2006	20:00:00			0
05-Aug-2006	08:00:00			
05-Aug-2006	20:00:00			0.06
06-Aug-2006	08:00:00			
06-Aug-2006	20:00:00			0
07-Aug-2006	08:00:00			
07-Aug-2006	20:00:00			0.01
08-Aug-2006	08:00:00			
08-Aug-2006	20:00:00			0
09-Aug-2006	08:00:00			
09-Aug-2006	20:00:00			0.03
10-Aug-2006	08:00:00			
10-Aug-2006	20:00:00			0.01
11-Aug-2006	08:00:00			
11-Aug-2006	20:00:00			0.01
12-Aug-2006	08:00:00			
12-Aug-2006	20:00:00			0.22
13-Aug-2006	08:00:00			
13-Aug-2006	20:00:00			0
14-Aug-2006	08:00:00			
14-Aug-2006	20:00:00			0
15-Aug-2006	08:00:00			
15-Aug-2006	20:00:00			0
16-Aug-2006	08:00:00			
16-Aug-2006	20:00:00			0
17-Aug-2006	08:00:00			
17-Aug-2006	20:00:00			0.01
18-Aug-2006	08:00:00			
18-Aug-2006	20:00:00			0
19-Aug-2006	08:00:00			
19-Aug-2006	20:00:00			0.06
20-Aug-2006	08:00:00			
20-Aug-2006	20:00:00			0
21-Aug-2006	08:00:00			
21-Aug-2006	20:00:00			0
22-Aug-2006	08:00:00			
22-Aug-2006	20:00:00			0.12
23-Aug-2006	08:00:00	0	3.53	
23-Aug-2006	20:00:00			0.14
24-Aug-2006	08:00:00			
24-Aug-2006	20:00:00			0.19
25-Aug-2006	08:00:00			
25-Aug-2006	20:00:00			0.02
26-Aug-2006	08:00:00			
26-Aug-2006	20:00:00			0.01
27-Aug-2006	08:00:00			
27-Aug-2006	20:00:00			0
28-Aug-2006	08:00:00			
28-Aug-2006	20:00:00			0
29-Aug-2006	08:00:00			
29-Aug-2006	20:00:00			0
30-Aug-2006	08:00:00			
30-Aug-2006	20:00:00			0.03
31-Aug-2006	08:00:00			
31-Aug-2006	20:00:00			0.86
01-Sep-2006	08:00:00			
01-Sep-2006	20:00:00			1.8

Cox 2006 Monitoring Data

Date	Time	CG	On-site RG	Smithfield RG
02-Sep-2006	08:00:00			
02-Sep-2006	20:00:00			0.05
03-Sep-2006	08:00:00			
03-Sep-2006	20:00:00			0
04-Sep-2006	08:00:00			
04-Sep-2006	20:00:00			0
05-Sep-2006	08:00:00			
05-Sep-2006	20:00:00			0.25
06-Sep-2006	08:00:00			
06-Sep-2006	20:00:00			0
07-Sep-2006	08:00:00			
07-Sep-2006	20:00:00			0.02
08-Sep-2006	08:00:00			
08-Sep-2006	20:00:00			0.05
09-Sep-2006	08:00:00			
09-Sep-2006	20:00:00			0.02
10-Sep-2006	08:00:00			
10-Sep-2006	20:00:00			0.13
11-Sep-2006	08:00:00			
11-Sep-2006	20:00:00			0.09
12-Sep-2006	08:00:00			
12-Sep-2006	20:00:00			0
13-Sep-2006	08:00:00			
13-Sep-2006	20:00:00			0.01
14-Sep-2006	08:00:00			
14-Sep-2006	20:00:00			0.27
15-Sep-2006	08:00:00			
15-Sep-2006	20:00:00			0.14
16-Sep-2006	08:00:00			
16-Sep-2006	20:00:00			0.06
17-Sep-2006	08:00:00			
17-Sep-2006	20:00:00			0.09
18-Sep-2006	08:00:00			
18-Sep-2006	20:00:00			0.11
19-Sep-2006	08:00:00			
19-Sep-2006	20:00:00			0.02
20-Sep-2006	08:00:00			
20-Sep-2006	20:00:00			0.12
21-Sep-2006	08:00:00	0	7.2	
21-Sep-2006	20:00:00			0.14
22-Sep-2006	08:00:00			
22-Sep-2006	20:00:00			0
23-Sep-2006	08:00:00			
23-Sep-2006	20:00:00			0.01
24-Sep-2006	08:00:00			
24-Sep-2006	20:00:00			0.01
25-Sep-2006	08:00:00			
25-Sep-2006	20:00:00			0.55
26-Sep-2006	08:00:00			
26-Sep-2006	20:00:00			0
27-Sep-2006	08:00:00			
27-Sep-2006	20:00:00			0
28-Sep-2006	08:00:00			
28-Sep-2006	20:00:00			0
29-Sep-2006	08:00:00			
29-Sep-2006	20:00:00			0.43
30-Sep-2006	08:00:00			
30-Sep-2006	20:00:00			0.07
01-Oct-2006	08:00:00			
01-Oct-2006	20:00:00			0.01
02-Oct-2006	08:00:00			

Cox 2006 Monitoring Data

Date	Time	CG	On-site RG	Smithfield RG
02-Oct-2006	20:00:00			0.07
03-Oct-2006	08:00:00			
03-Oct-2006	20:00:00			0
04-Oct-2006	08:00:00			
04-Oct-2006	20:00:00			0
05-Oct-2006	08:00:00			
05-Oct-2006	20:00:00			0
06-Oct-2006	08:00:00			
06-Oct-2006	20:00:00			0.25
07-Oct-2006	08:00:00			
07-Oct-2006	20:00:00			0.05
08-Oct-2006	08:00:00			
08-Oct-2006	20:00:00			0
09-Oct-2006	08:00:00			
09-Oct-2006	20:00:00			0
10-Oct-2006	08:00:00			
10-Oct-2006	20:00:00			0
11-Oct-2006	08:00:00			
11-Oct-2006	20:00:00			0
12-Oct-2006	08:00:00			
12-Oct-2006	20:00:00			0
13-Oct-2006	08:00:00			
13-Oct-2006	20:00:00			0
14-Oct-2006	08:00:00			
14-Oct-2006	20:00:00			0
15-Oct-2006	08:00:00			
15-Oct-2006	20:00:00			0
16-Oct-2006	08:00:00			
16-Oct-2006	20:00:00			0
17-Oct-2006	08:00:00			
17-Oct-2006	20:00:00			0.05
18-Oct-2006	08:00:00			
18-Oct-2006	20:00:00			
19-Oct-2006	08:00:00	0	2.75	
19-Oct-2006	20:00:00			
20-Oct-2006	08:00:00			
20-Oct-2006	20:00:00			0.13
21-Oct-2006	08:00:00			
21-Oct-2006	20:00:00			0.16
22-Oct-2006	08:00:00			
22-Oct-2006	20:00:00			0
23-Oct-2006	08:00:00			
23-Oct-2006	20:00:00			0.11
24-Oct-2006	08:00:00			
24-Oct-2006	20:00:00			0.05
25-Oct-2006	08:00:00			
25-Oct-2006	20:00:00			0.06
26-Oct-2006	08:00:00			
26-Oct-2006	20:00:00			0.11
27-Oct-2006	08:00:00			
27-Oct-2006	20:00:00			0.02
28-Oct-2006	08:00:00			
28-Oct-2006	20:00:00			1.55
29-Oct-2006	08:00:00			
29-Oct-2006	20:00:00			0.18
30-Oct-2006	08:00:00			
30-Oct-2006	20:00:00			0
31-Oct-2006	08:00:00			
31-Oct-2006	20:00:00			0.1
01-Nov-2006	08:00:00			0.06
01-Nov-2006	20:00:00			

Cox 2006 Monitoring Data

Date	Time	CG	On-site RG	Smithfield RG
02-Nov-2006	08:00:00			0.28
02-Nov-2006	20:00:00			
03-Nov-2006	08:00:00			0.37
03-Nov-2006	20:00:00			
04-Nov-2006	08:00:00			0.09
04-Nov-2006	20:00:00			
05-Nov-2006	08:00:00			
05-Nov-2006	20:00:00			
06-Nov-2006	08:00:00			
06-Nov-2006	20:00:00			
07-Nov-2006	08:00:00			0.78
07-Nov-2006	20:00:00			
08-Nov-2006	08:00:00			0.79
08-Nov-2006	20:00:00			
09-Nov-2006	08:00:00			0.01
09-Nov-2006	20:00:00			
10-Nov-2006	08:00:00			
10-Nov-2006	20:00:00			
11-Nov-2006	08:00:00			
11-Nov-2006	20:00:00			
12-Nov-2006	08:00:00			0.34
12-Nov-2006	20:00:00			
13-Nov-2006	08:00:00	0	3.73	0.51

APPENDIX D

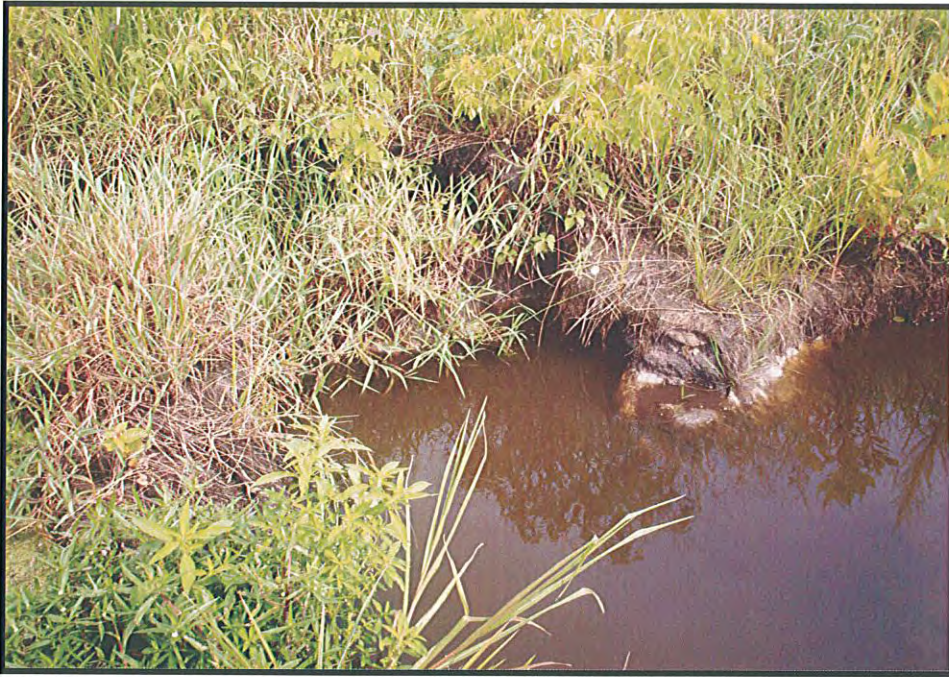
2006 Site Photos



SPA 1. Undercutting at log weir STA 20+40 (repaired September 2006).



SPA 3. Left bank erosion at STA 51+70.



SPA 2. Left bank erosion at log weir STA 23+70 (repaired September 2006).



SPA 4. Left bank erosion at STA 52+70.



SPA 5. Erosion and bar formation at STA 74+80.



PP1



PP2



PP3



PP4 DS



PP4 US



PP5 DS



PP5 US



PP7



PP6



PP8



PP8



PP10 US



PP9



PP10 DS



PP11



PP13 US



PP12



PP13 DS



PP14



PP16



PP15



PP17



PP18



PP19 US



PP19 DS



PP20



Cox Veg Plot #1



Cox Veg Plot #3



Cox Veg Plot #2



Cox Veg Plot #4



Cox Veg Plot #5



Cox Veg Plot #7



Cox Veg Plot #6



Cox Veg Plot #8



Cox Veg Plot #9



Cox Veg Plot #11



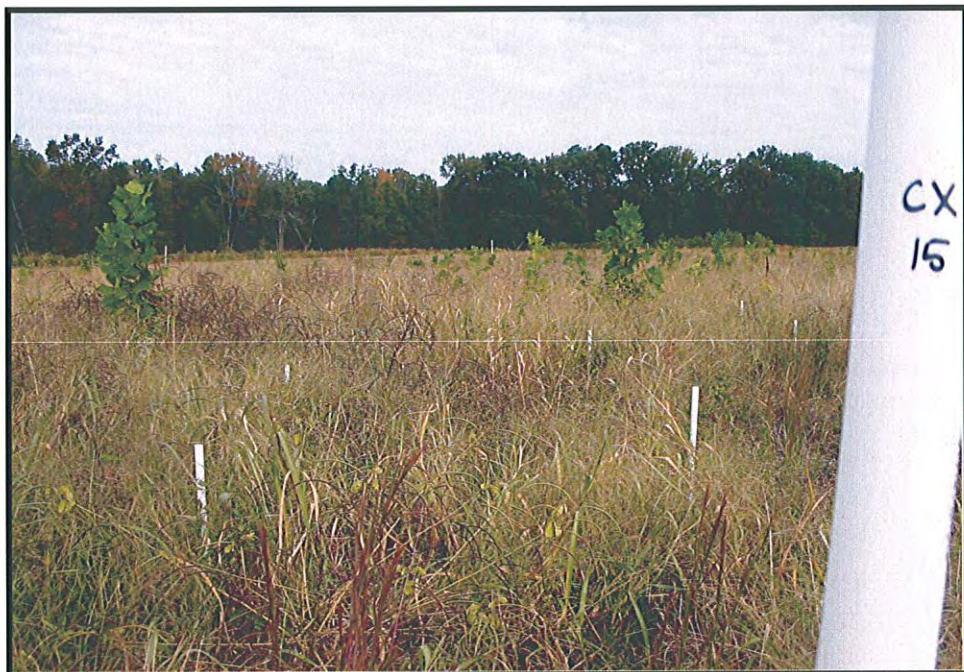
Cox Veg Plot #10



Cox Veg Plot #12



Cox Veg Plot #13



Cox Veg Plot #15



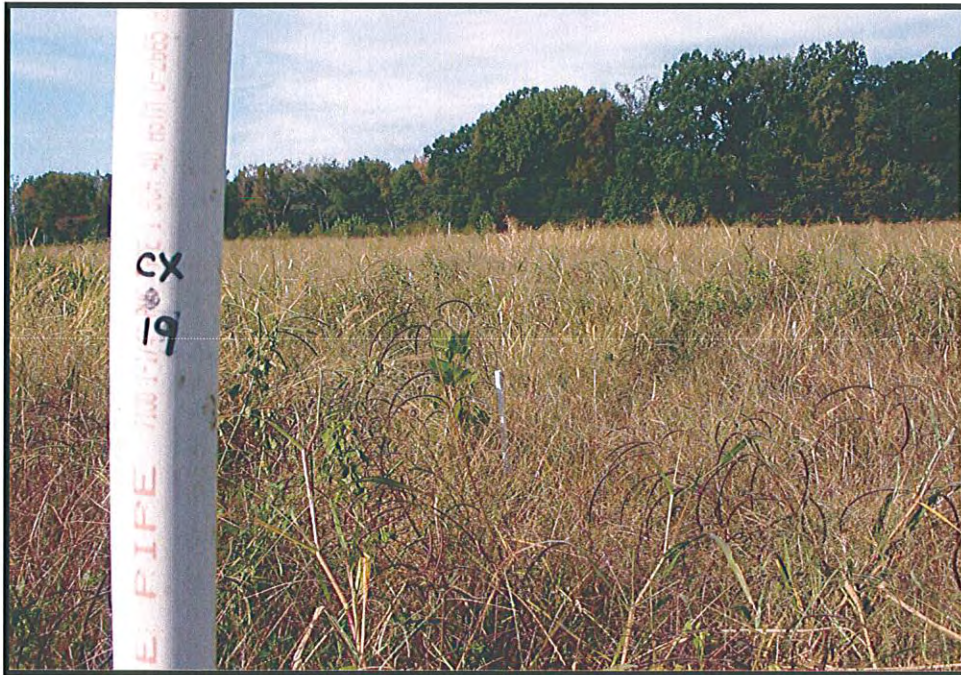
Cox Veg Plot #14



Cox Veg Plot #16



Cox Veg Plot #17



Cox Veg Plot #19



Cox Veg Plot #18



Cox Veg Plot #20



Cox Veg Plot #21



Cox Veg Plot #22