

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

Year 3 Monitoring Report



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1.0 SUMMARY

This Annual Report details the monitoring activities during the 2008 growing season on the Cox Mitigation Site. Construction of the site was completed in December 2005. The 2008 data represent the results from the third year of hydrologic, vegetation, and stream morphology monitoring.

Restoration of the Cox site involved stream restoration, stream enhancement, riverine wetland restoration, and non-riverine wetland restoration. Construction included a stable meandering channel across prior-converted hydric agricultural fields. The channel was designed and constructed with natural channel design techniques. Wetland restoration activities included raising the water table by filling drainage ditches and creation of microtopography across the site. After construction it was determined there was 7,292 linear feet of stream restoration, 350 linear 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 data from the 12 hydrology monitoring gauges, 22 vegetation monitoring plots, a crest gauge, an on-site rain gauge, and 16 cross sections as required by the approved Restoration Plan.

In 2008 eleven of the twelve hydrology monitoring gauges recorded hydroperiods of at least 7 percent of the growing season. The gauge that did not record a success criteria hydroperiod did record a hydroperiods of 4 percent of the growing season, which correlates with data recorded by gauges located in the reference wetland. Based on the monitoring results of Years 1 through 3, it is concluded that the restored wetland is performing as designed.

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.

This Annual Report documents vegetation survivability based on twenty-two vegetation-monitoring plots randomly located to represent the different zones within the project. The vegetation monitoring for 2008 documented a range of surviving tree stem density of 440 stems per acre to 800 stems per acre, with an average tree density of 640 stems per acre. Overall, the site has met the initial vegetation success criteria of 320 stems per acre surviving after the third growing season as specified in the Restoration Plan.

During 2008 the restored stream channel remained stable and continued to provide the intended habitat and hydrologic functions. Two bankfull events were recorded during the year. All monitored cross sections show very little adjustment in stream dimension, and it was concluded that the site remains on track to achieve the stream success criteria as specified in the Restoration Plan for the site.

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

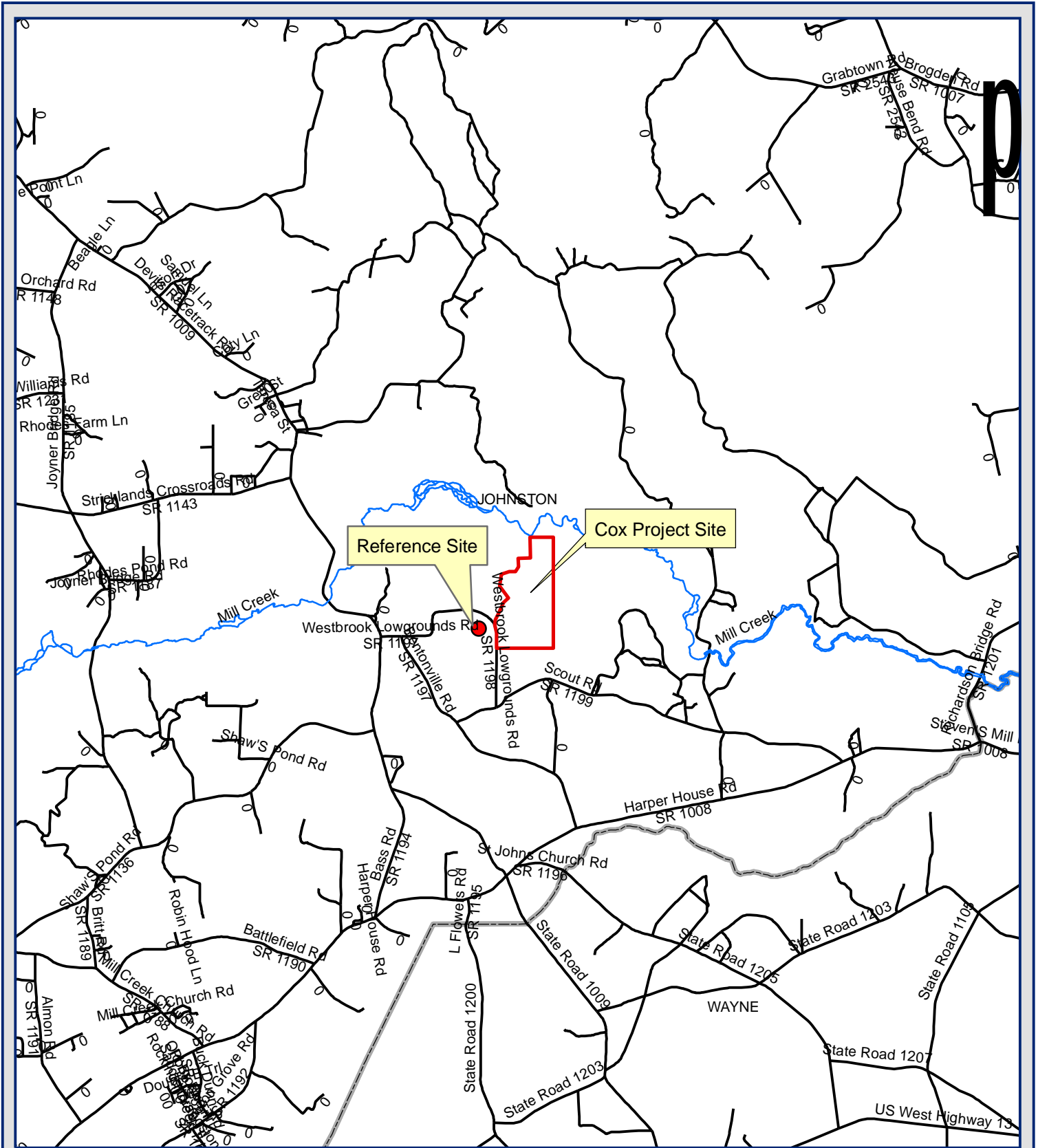
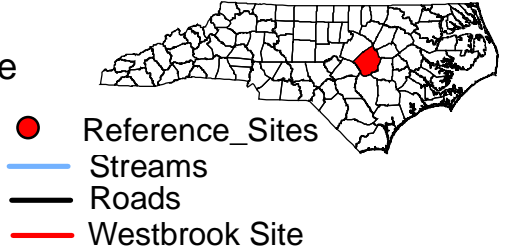


Figure 1.
Cox Stream Mitigation Site
Project Location Map
Johnston County, NC

1 inch equals 1 miles



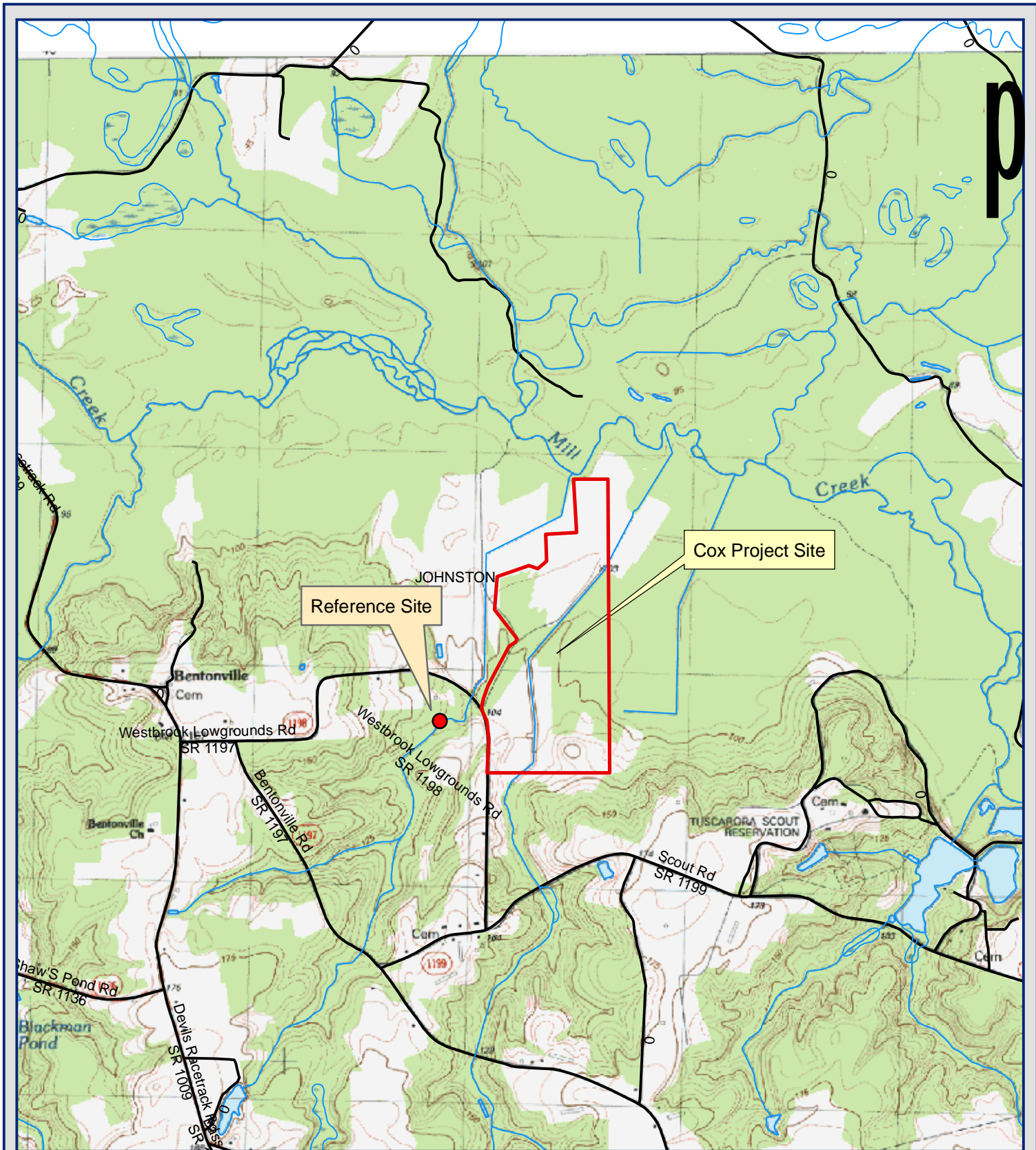
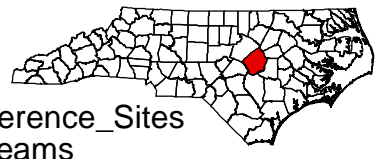


Figure 2.
 Cox Stream Mitigation Site
 USGS Topographic Map
 Johnston County, NC

1 inch equals 2,000 feet



- Reference_Sites
- Streams
- Roads
- Westbrook Site



water, and rain gauges were functional beginning January 2006. The 2008 monitoring season represents the third year of monitoring for the site.

2.2 PROJECT 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. hydrology, 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 2008 (Year 3) at the Cox Mitigation Site.

Table 1. Project Mitigation Structure and Objectives

Reach Name	As-Built Length (ft)	Restoration Approach
Stream		
UT to Mill Creek	7,292	Restoration
UT to Mill Creek	350	Enhancement
Total	7,642	
Wetland		
Riverine	26.8 acres	Restoration
Non-Riverine	16.9 acres	Restoration

2.3 PROJECT HISTORY & SCHEDULE

Table 2. Project Activity and Reporting History

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

Table 3. Project Contacts

Contact	Firm Information
Project Manager Norton Webster	EBX-Neuse 1, LLC (919) 608-9688
Designer Kevin Tweedy, PE	Buck Engineering PC (919) 463-5488
Monitoring Contractor Daniel Ingram	WK Dickson and Co., Inc (919) 782-0495

3.0 HYDROLOGY

3.1 HYDROLOGIC SUCCESS CRITERIA

As stated in the approved Mitigation 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 seven 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 nine automated and three 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

Three manual groundwater gauges, nine automated Infinities groundwater gauges, a manual rain gauge, and one manual stream crest gauge were in-place throughout the 2008 growing season (**Figures 3a and 3b**). 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.

Automated Gauges

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 then used to determine wetland hydroperiods.

Manual Gauges

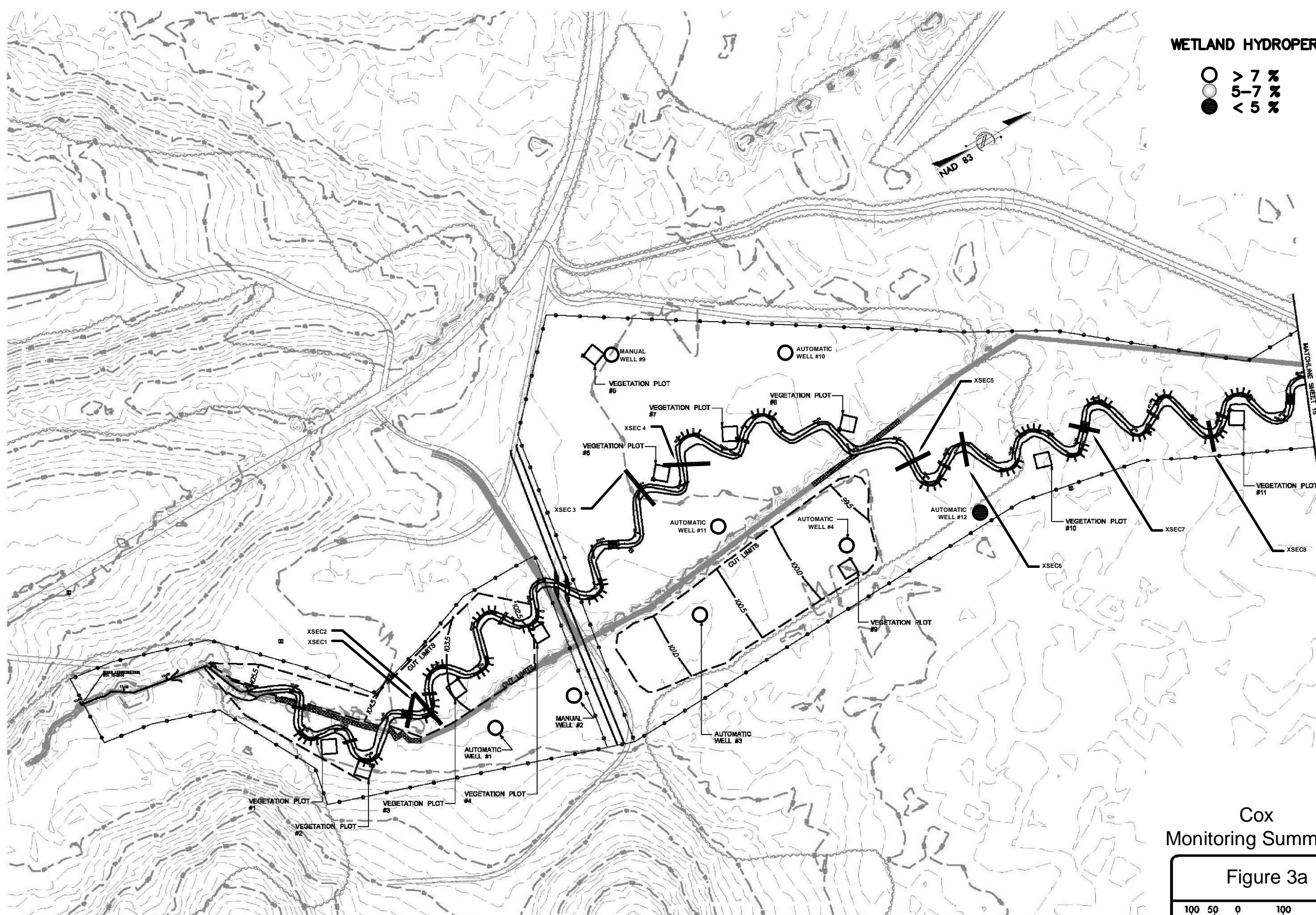
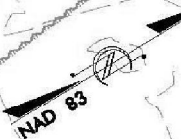
Water table depths are recorded monthly in manual groundwater gauges. To calculate wetland hydroperiods, interpolations are made between monthly readings by correlating twice daily automatic gauge readings. Each manual gauge is correlated to an automatic gauge based on proximity, landscape position, 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. This correction factor typically varies by several inches on a monthly basis. 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.

Data Interpretation

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, the hydroperiod is calculated continuously. This methodology accounts for minor technical malfunctions experienced by the automatic gauges.

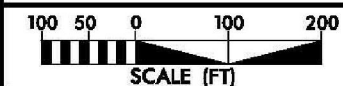
WETLAND HYDROPERIOD

- > 7 %
- ◐ 5-7 %
- < 5 %



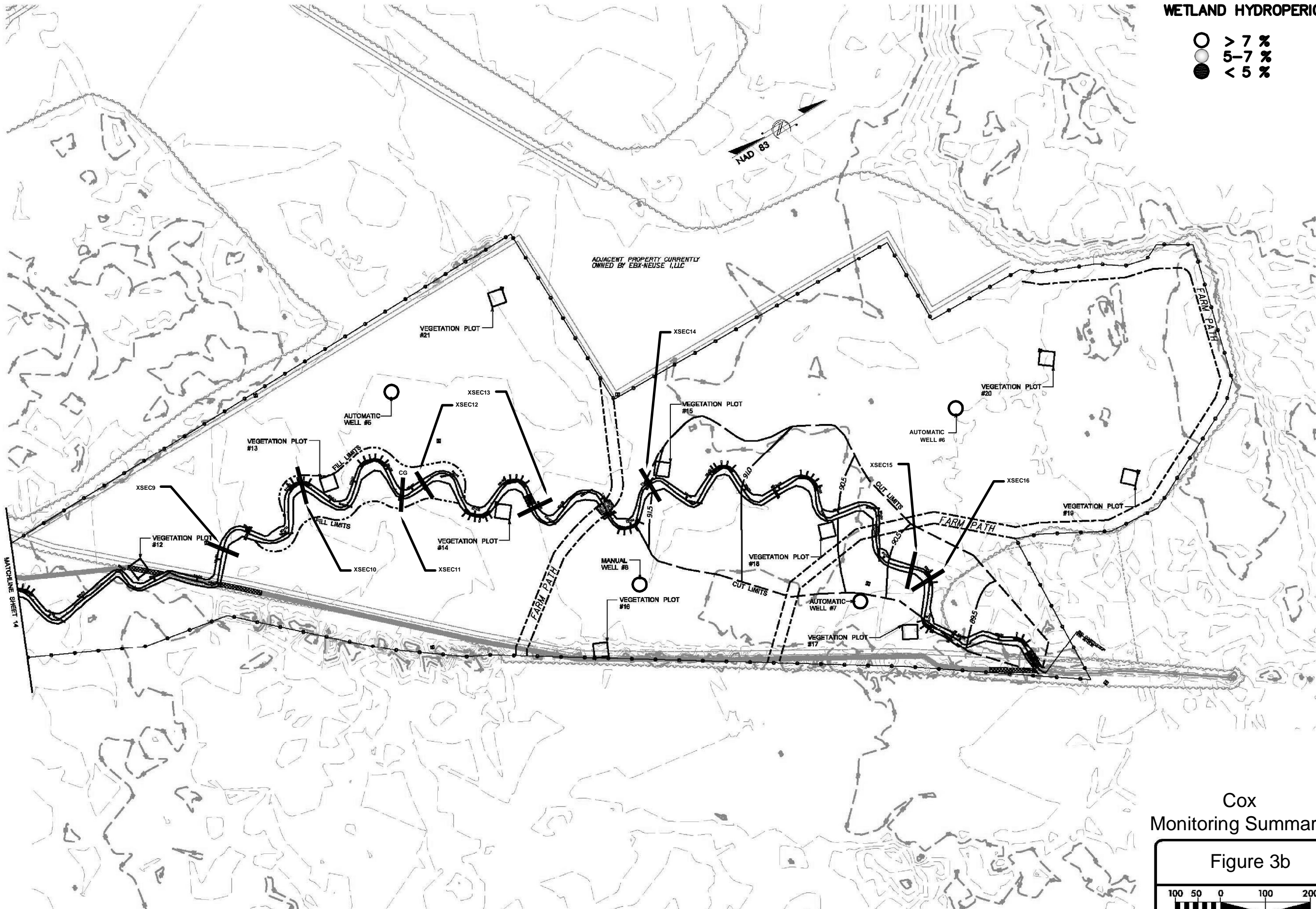
Cox
Monitoring Summary

Figure 3a



WETLAND HYDROPERIOD

- > 7 %
- ◐ 5-7 %
- < 5 %



Cox
Monitoring Summary

Figure 3b



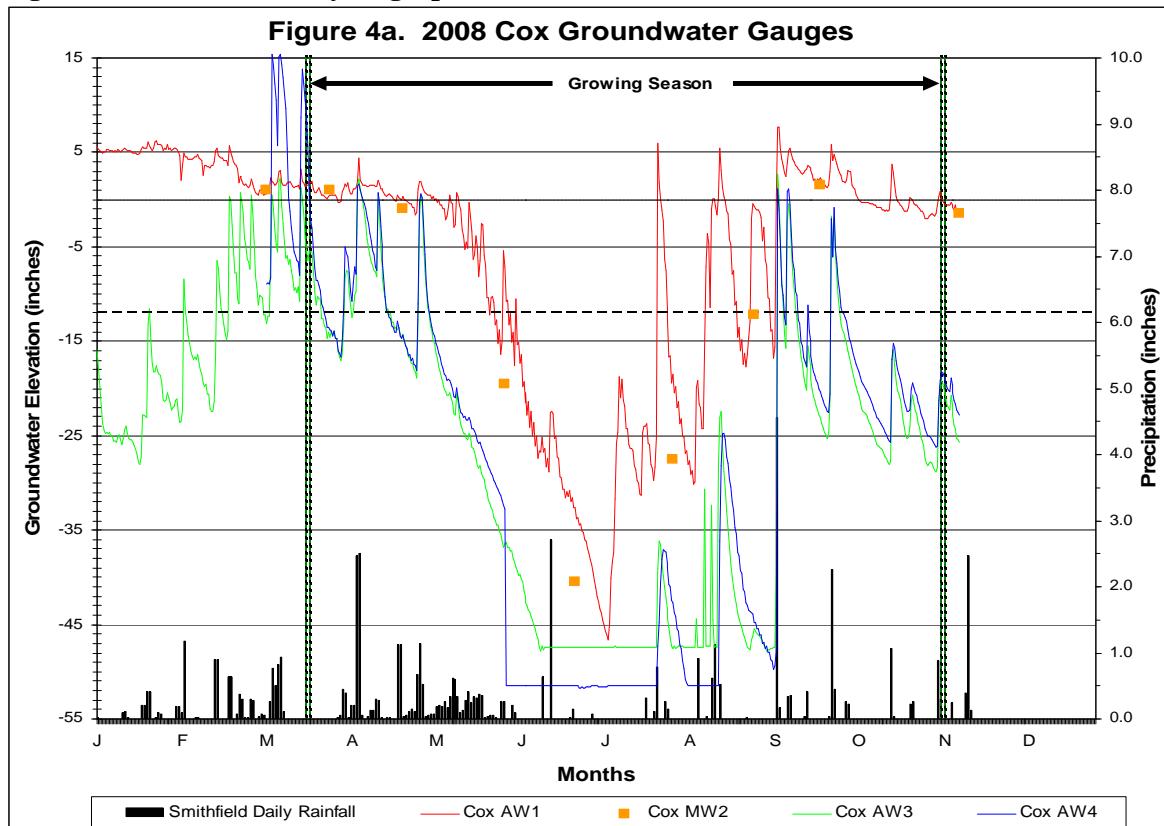
3.3 RESULTS OF HYDROLOGY MONITORING

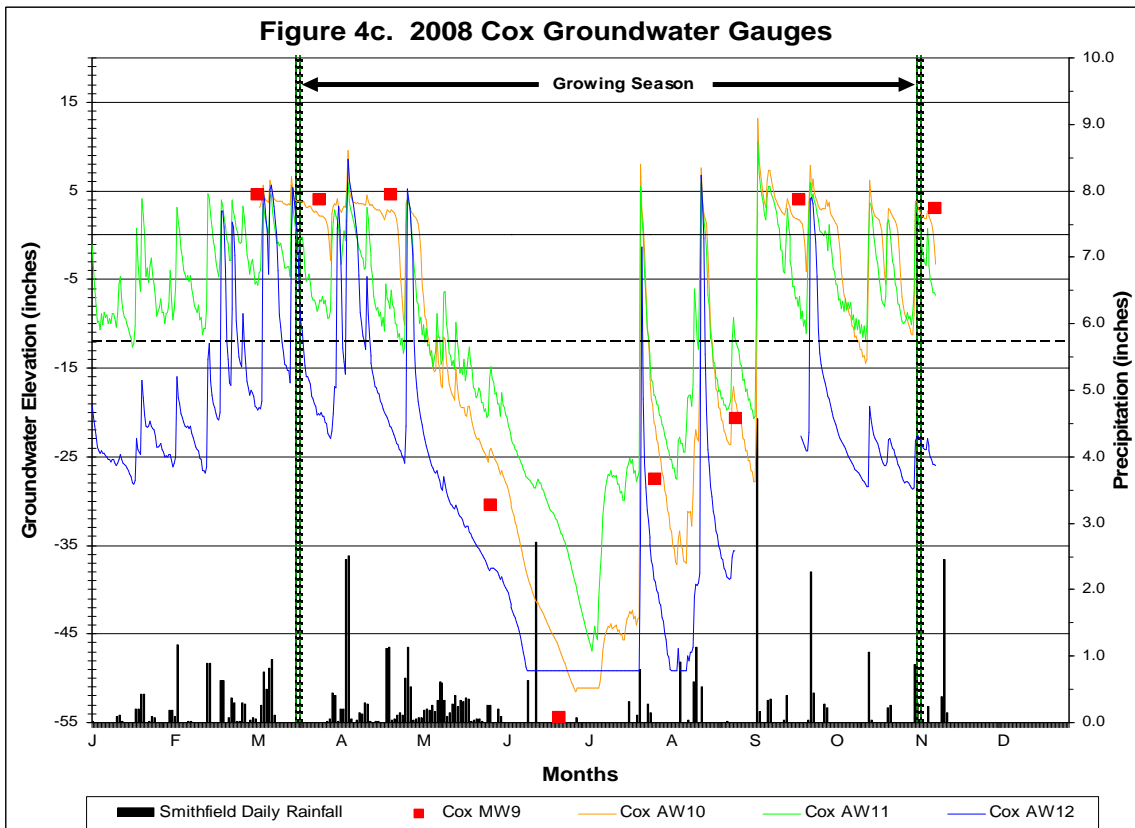
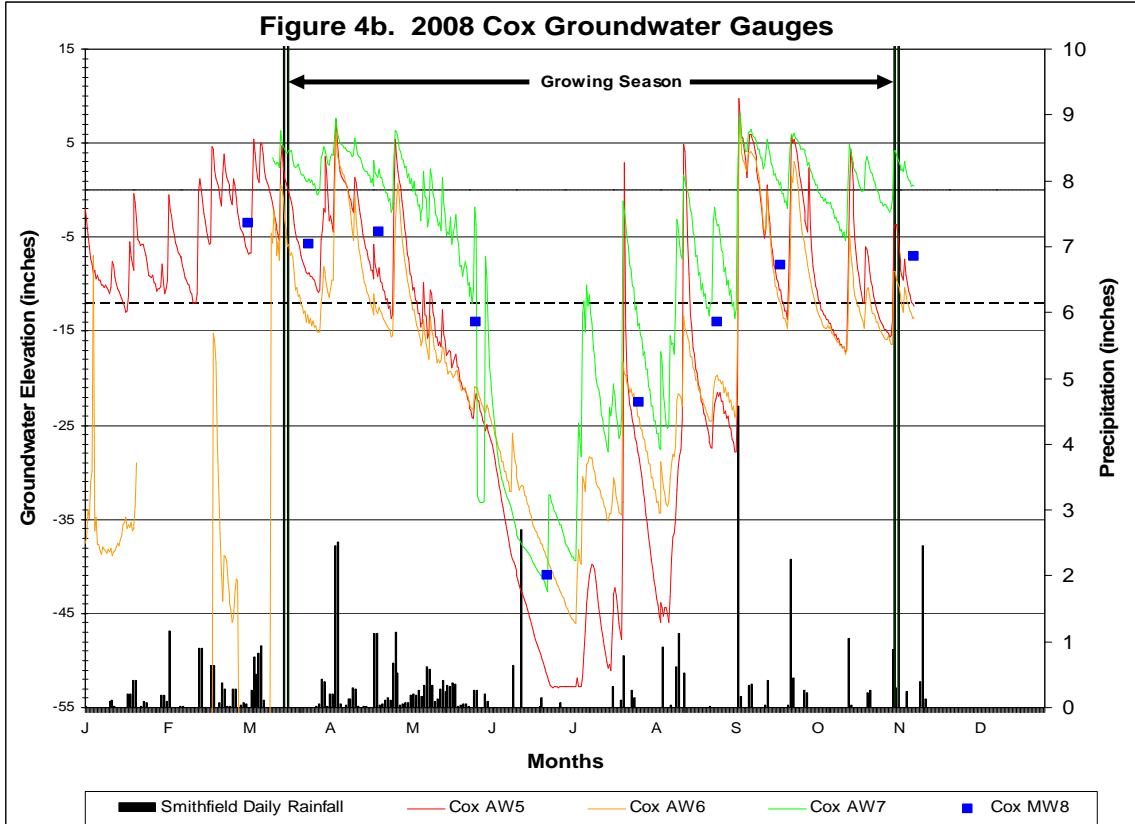
3.3.1 Site Data

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 4**. **Figures 4a, 4b, and 4c** provide charts of the water depth for each of the monitoring gauges on the site. Precipitation is shown in **Figure 5**. Raw hydrograph data collected from the monitoring gauges are provided in **Appendix C**.

Year Three monitoring demonstrates that the site is functioning as designed, with varying degrees of wetness and saturation across the site. Gauges AW1, MW2, AW3, AW4, AW5, AW6, AW7, MW8, MW9, AW10, and AW11 exceeded the 7 percent hydrologic success criteria with several of those recording a wetland hydroperiod of 16 percent or more. Gauge AW12 had a significant hydroperiod of 4 percent of the growing season and outperformed two of the five reference gauges. Gauge AW12 achieved a 7 percent hydroperiod at a depth of 17 inches below the surface. Overall, the mitigation site recorded a range of hydroperiods very similar to the range of hydroperiods recorded at the reference wetland site.

Figure 4. Groundwater Hydrographs





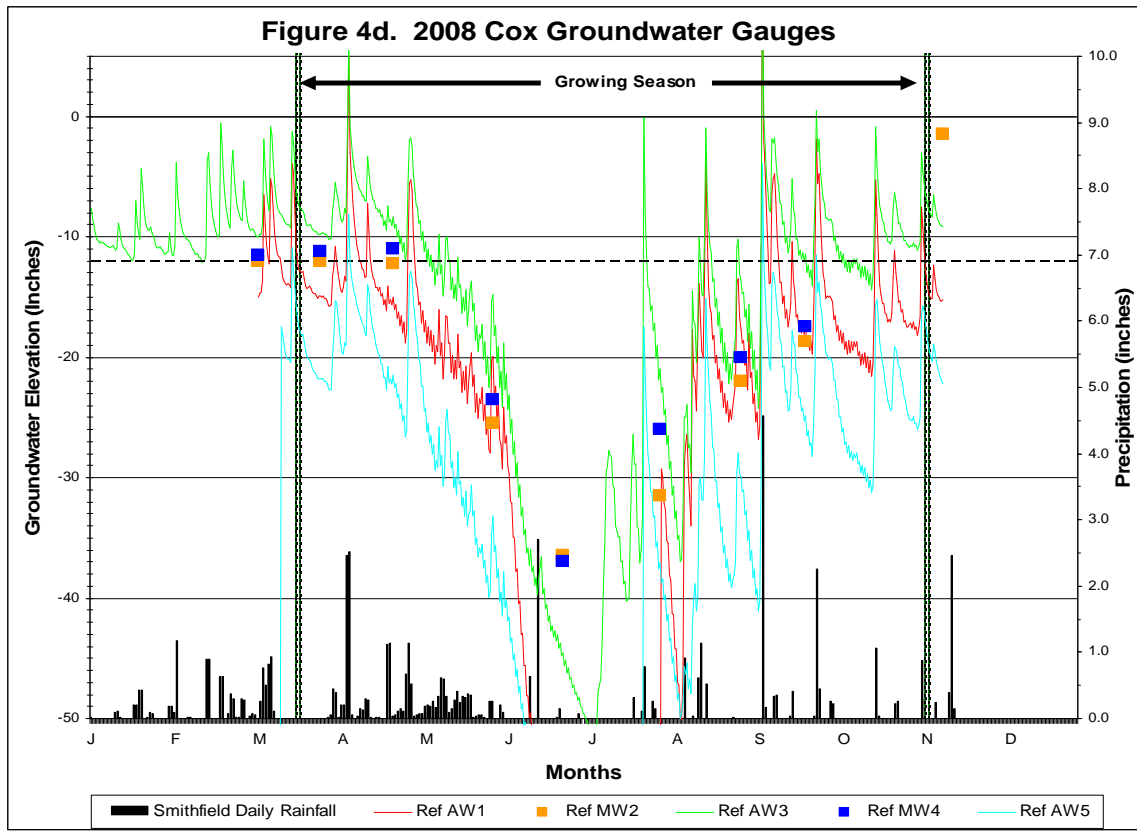


Table 4. Hydrologic Monitoring Results

2007 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	
Cox AW1	70	30	156	67	6
Cox MW2	62	27	107	46	4
Cox AW3	17	7	36	15	6
Cox AW4	17	7	39	17	6
Cox AW5	40	17	108	46	8
Cox AW6	20	8	67	29	9
Cox AW7	74	32	161	69	6
Cox MW8	59	25	123	53	6
Cox MW9	61	26	116	50	4
Cox AW10	50	22	117	50	6
Cox AW11	62	27	128	55	9
Cox AW12	9	4	22	9	6
Reference Gauges					
WBK RAW1	5	2	21	9	9
WBK RAW2	19	8	48	20	11
WBK RAW3	52	22	109	47	8
WBK RAW4	38	16	53	23	5
WBK RAW5	1	0	1	0	1

3.3.2 Reference Data

The approved Restoration Plan for the site 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 **Figure 4** and **Table 4**. The reference gauges exhibit a range of hydroperiods similar to the mitigation site data, including two gauge locations (Ref AW1 and MW5) with a minimal wetland hydroperiod. The reference gauges are located in a riverine wetland upstream of the adjacent Westbrook mitigation site.

Table 5. Comparison of Normal Rainfall to Observed Rainfall

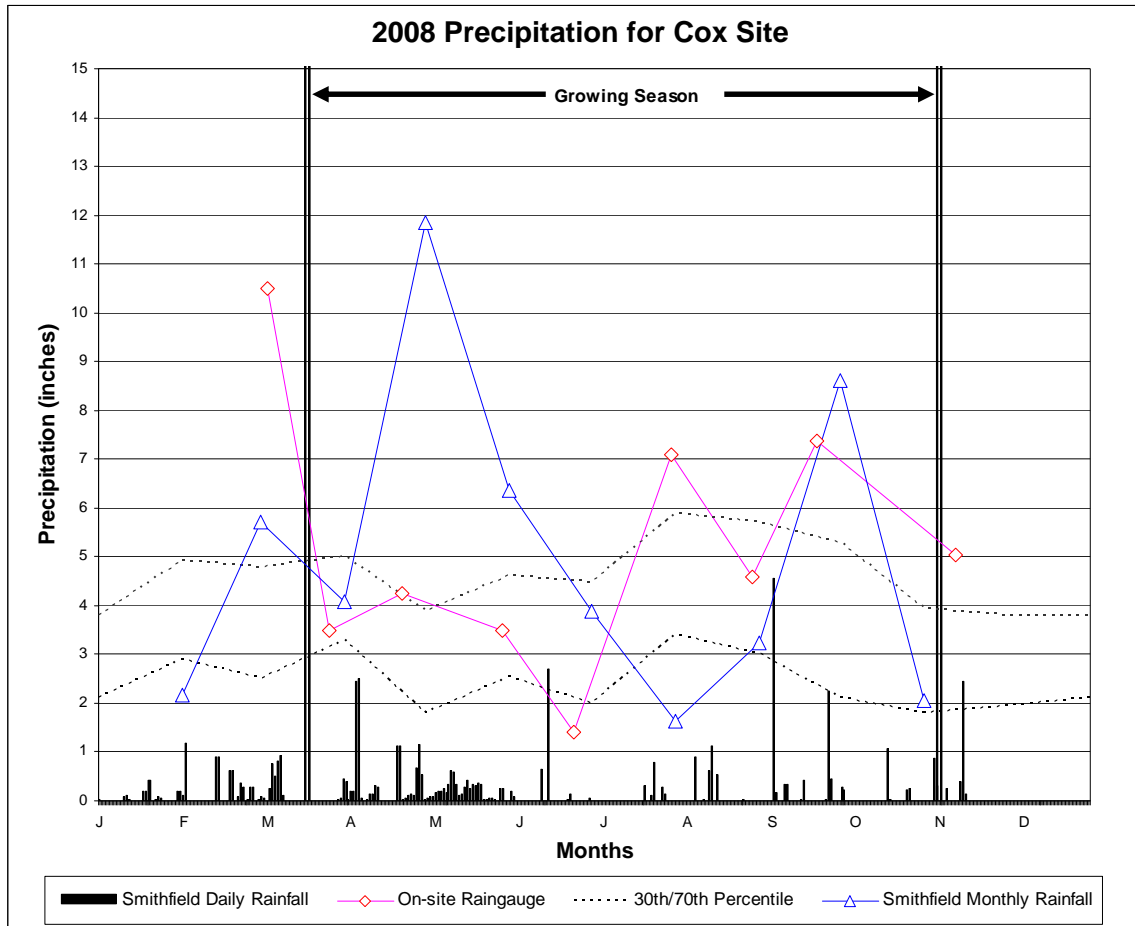
Month	Average	Normal Limits		Smithfield Precipitation	On-Site Precipitation
		30 Percent	70 Percent		
January	4.17	2.90	4.92	2.16	---
February	3.66	2.51	4.78	5.72	10.50
March	4.23	3.28	5.01	4.07	3.50
April	3.00	1.79	3.89	11.86	4.25
May	3.76	2.54	4.62	6.36	3.48
June	3.74	1.99	4.47	3.89	1.40
July	5.04	3.40	5.89	1.63	7.10
August	4.56	3.00	5.72	3.24	4.60
September	4.35	2.11	5.28	8.61	7.37
October	3.14	1.80	3.93	2.06	5.03
November	3.14	1.93	3.81	---	---
December	3.15	2.10	3.80	---	---
Total	45.94	29.35	56.12		

*October on-site rainfall represents data collected through the end of the growing season (Nov. 5th)

3.3.3 Climate Data

The Cox mitigation site experienced on-site rainfall conditions that were just slightly below the annual average for Smithfield. Although several months this year experienced below average rainfall amounts, as of September the Smithfield weather station has received above-normal rainfall totals (1.09 inches) for the year. Overall, the Cox mitigation site has shown vast improvement and recovery from last year's severe drought conditions.

Figure 5. 2008 Rainfall



3.4 HYDROLOGIC CONCLUSIONS

Data collected from all the groundwater monitoring gauges on the Cox Mitigation Site indicate that eleven of twelve hydrology monitoring stations recorded hydroperiods of at least 7 percent of the growing season. The remaining gauge recorded a hydroperiod of 4 percent of the growing season which mirrored conditions experienced in the reference wetland. The minimum depth at which this gauge would have reached the 7 percent success criteria is -18”.

On-site rainfall data was slightly below the normal average during the 2008 growing season. Based on the results from the mitigation site monitoring gauges during Years 1 through 3, it was concluded that the site is performing as designed.

4.0 VEGETATION

4.1 VEGETATION SUCCESS CRITERIA

The interim measure of vegetative success for the Cox Wetland Mitigation Plan will be 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 5 of the monitoring period.

Up to 20 percent of the site species composition may be comprised of invaders. 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 monitoring protocol was designed to monitor vegetation survival: 22 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.

Plots have metal fence posts at each of the four corners to clearly and permanently establish the area to be sampled. Then ropes are hung connecting all four corners to help in determining if trees close to the plot boundary are 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 are counted inside the plot. A piece of white PVC pipe ten feet tall is 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 are flagged with orange flagging and marked with a 3-foot tall piece of half inch PVC to mark them as the planted stems (vs. any colonizers) and to help locate them in the future. Each stem is tagged with a permanent numbered aluminum tag.

Table 6. 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>	Sugarberry	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 vegetation monitoring documented a surviving tree stem density range of 440 to 800 stems per acre with an overall average density of 640 stems per acre. Overall, the site has met the initial vegetation survival criteria of 320 stems per acre surviving after the third growing season and is on track for meeting the final vegetation survival criteria of 260 stems per acre surviving after the fifth growing season.

4.3 RESULTS OF VEGETATION MONITORING

Table 7 presents stem counts for each of the monitoring plots. 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 and recorded during this process (**Table 8**).

Annual variation in stem count data can be attributed to mortality and regeneration from root stock of stems previously assessed to be dead.

Table 7. Results of Vegetation Monitoring

Plot	1	2	3	4	5	6	7	8	9	10	Total	Stem per Acre
COX 1	2	2	2	0	2	0	4	0	1	0	13	520
COX 2	0	0	3	0	5	0	7	0	0	2	17	680
COX 3	2	5	7	0	1	0	0	0	5	0	20	800
COX 4	2	1	3	0	6	0	3	0	2	0	17	680
COX 5	4	0	1	1	1	0	6	3	0	0	16	640
COX 6	1	1	10	0	0	0	3	0	1	0	16	640
COX 7	2	1	1	0	1	0	10	0	3	0	18	720
COX 8	1	1	1	0	1	0	9	0	0	2	15	600
COX 9	7	0	7	0	0	0	2	0	0	0	16	640
COX 10	6	4	1	0	0	0	0	0	1	0	12	480
COX 11	2	2	0	0	2	4	3	0	1	4	18	720
COX 12	0	0	0	0	0	2	6	1	1	9	19	760
COX 13	9	1	1	0	0	0	3	0	2	1	17	680
COX 14	0	0	0	0	1	1	14	0	0	2	18	720
COX 15	2	0	1	0	5	5	3	1	0	0	17	680
COX 16	1	0	0	4	3	0	5	0	0	1	14	560
COX 17	6	0	7	0	0	1	0	0	0	0	14	560
COX 18	1	0	3	0	3	3	4	0	2	1	17	680
COX 19	2	0	6	0	2	0	1	0	0	0	11	440
COX 20	3	0	1	7	0	0	2	0	0	0	13	520
COX 21	3	0	3	5	0	0	6	3	0	0	20	800
COX 22	2	0	4	4	0	0	3	1	0	0	14	560

Average Stems per Acre: 640

Range of Stems per Acre: 440-800

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

Table 8. Volunteers within the Wetland Restoration Area

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. Management efforts should be focused on controlling the invasives in and around these plots.

Sweetgum (*Liquidambar styraciflua*) is the most common volunteer, though red maple (*Acer rubrum*) and loblolly pine (*Pinus taeda*) were also observed.

4.4 VEGETATION OBSERVATIONS & CONCLUSIONS

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. Hydrophytic herbaceous vegetation, including rush (*Juncus effusus*), spike-rush (*Eleocharis obtusa*), boxseed (*Ludwigia* sp.), sedge (*Carex* spp.), smartweed (*Polygonum* spp.), and woolgrass (*Scirpus cyperinus*) 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 quite a few weedy species occurring on the site, though none seem to be posing any problems for the woody or herbaceous hydrophytic vegetation. Commonly seen weedy vegetation includes ragweed (*Ambrosia artemisiifolia*), wild dill (*Foeniculum vulgare*), goldenrod (*Solidago* spp.), dogfennel (*Eupatorium capillifolium*), horseweed (*Conyza* spp.), and broomsedge (*Andropogon* spp.). Any threatening weedy vegetation found in the future will be documented and discussed in annual reports.

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 site has met the minimum success interim criteria of 320 trees per acre at the end of year three and is on trajectory to meet the final success criteria of 260 trees per acre at the end of year five.

5.0 STREAM MONITORING

5.1 STREAM SUCCESS CRITERIA

As stated in the approved Restoration Plan, the stream restoration success criteria for the site includes 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 STREAM MORPHOLOGY MONITORING PLAN

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

5.2.1 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 2008 (Year 3) were surveyed in September 2007.

5.2.2 Longitudinal Profile

A longitudinal profile of approximately 3,000 feet was surveyed along the restoration reach in Years 1 and 3. 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, glide, and the max pool depth. A common benchmark will be used each year to facilitate comparison of year-to-year data.

5.2.3 Hydrology

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 (**Table 10**).

5.2.4 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 stream banks, as well as facing upstream and downstream in the channel. 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 STREAM MORPHOLOGY MONITORING RESULTS

Photographs were taken throughout the monitoring season to document the evolution of the restored stream channel (**Appendix D**). Herbaceous vegetation is moderately 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.).

In-stream structures installed within the restored stream included constructed riffles, log vanes, log weirs, and root wads. Visual observations of structures throughout the 2008 growing season indicated several areas requiring continued observation. The log weirs have experienced significant end cutting and undercutting that has resulted in head cuts migrating up the channel. Portions of the stream channel are showing bank erosion and sparse bank vegetation. **Table 9** details the stream areas of concern.

5.3.1 Cross Sections

Year 3 cross section monitoring data for stream stability were collected during September 2008 and compared to baseline data collected in 2006 (**Appendix B**). All monitored cross sections fell within the quantitative parameters defined for "E" or "C" type channels. The cross section data are summarized in **Table 11**.

5.3.2 Longitudinal Profile

A longitudinal profile survey was conducted in Year 3. Based on a comparison to the previous profiles and cross sections, there has been very little adjustment to the stream profile or dimension since construction. Areas requiring further observation are listed in **Table 9**, and their locations are shown in **Figure 6**.

Table 9. Stream Areas Requiring Observation

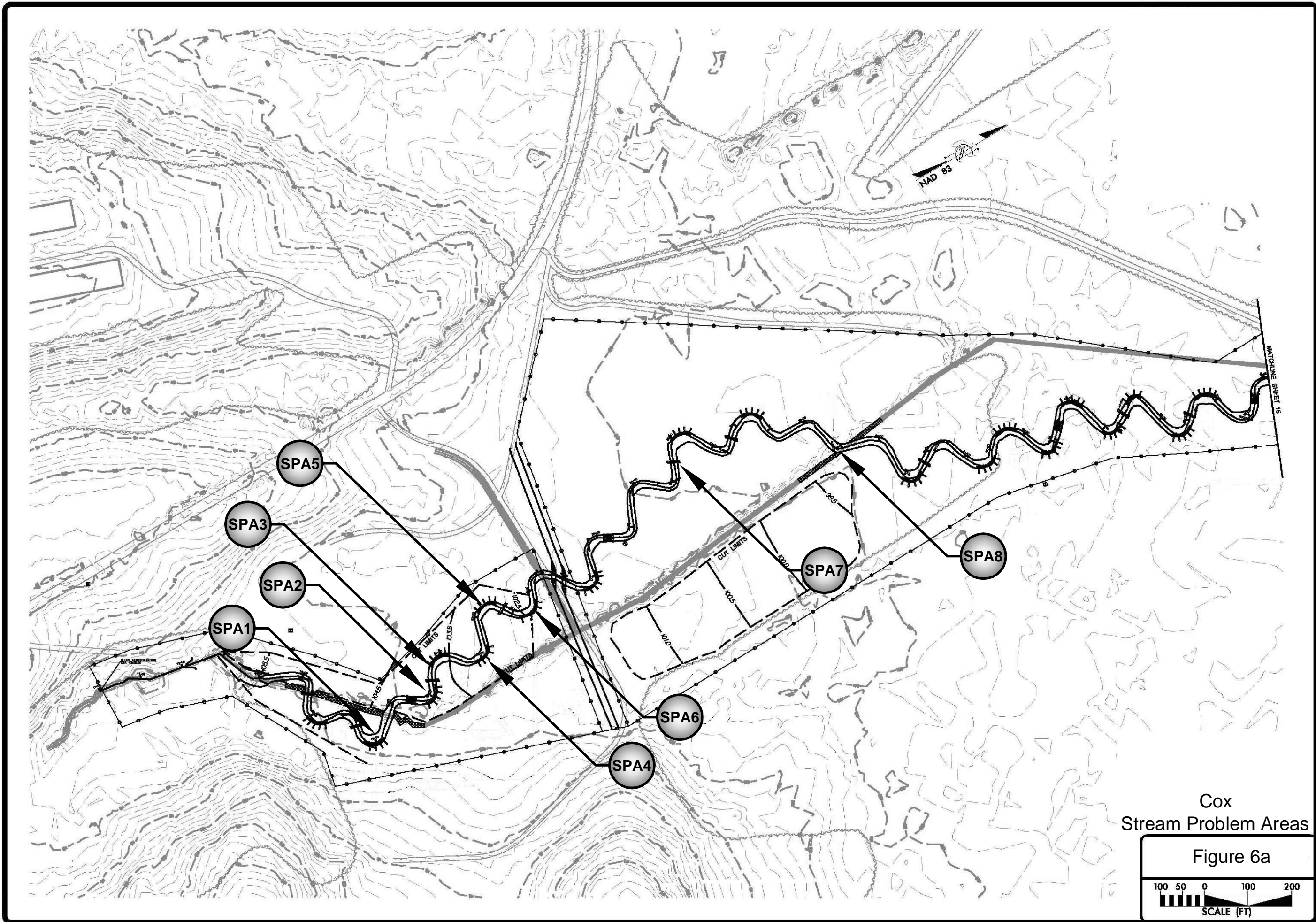
ID	Station	Feature	Problem
SPA1	18+00	Root wads	Erosion on right bank behind root wads
SPA2	20+00	Root wads	Erosion on right bank behind root wads
SPA3	20+40	Log weir	End cut on right bank due to improper installation; bed stable.
SPA4	22+00	Root wads	Erosion on right bank behind root wads
SPA5	23+50	Left bank	Erosion behind root wad on downstream end, other root wads are stable
SPA6	25+40	Root wads	Erosion on left bank behind root wads
SPA7	31+40	Log weir	Undercut on right bank; banks appear stable
SPA8	37+00	Right bank	Minor erosion at old channel plug
SPA9	57+10	Log weir	Erosion on left bank; End cut on right bank has been repaired
SPA10	65+30	Log weir	Undercut on left bank; has been repaired, but is still eroding
SPA11	66+40	Channel	Bank erosion causing mid-channel bar formation
SPA12	74+50	Channel	Erosion downstream of log vane due to improper installation; planted with live stakes to stabilize banks
SPA13	81+60	Bed	Mid-channel bar formation
SPA14	84+00	Channel	Log in channel directing flow to sides of channel, causing minor erosion

5.3.3 Hydrology

Two bankfull events were recorded during the 2008 monitoring season. They were both late in the growing season. Out of bank events of 1.2 and 1.5 feet above bankfull stage were recorded during the August and September site visits.

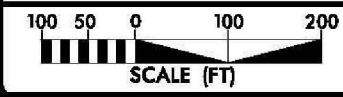
Table 10. Crest Gauge Data

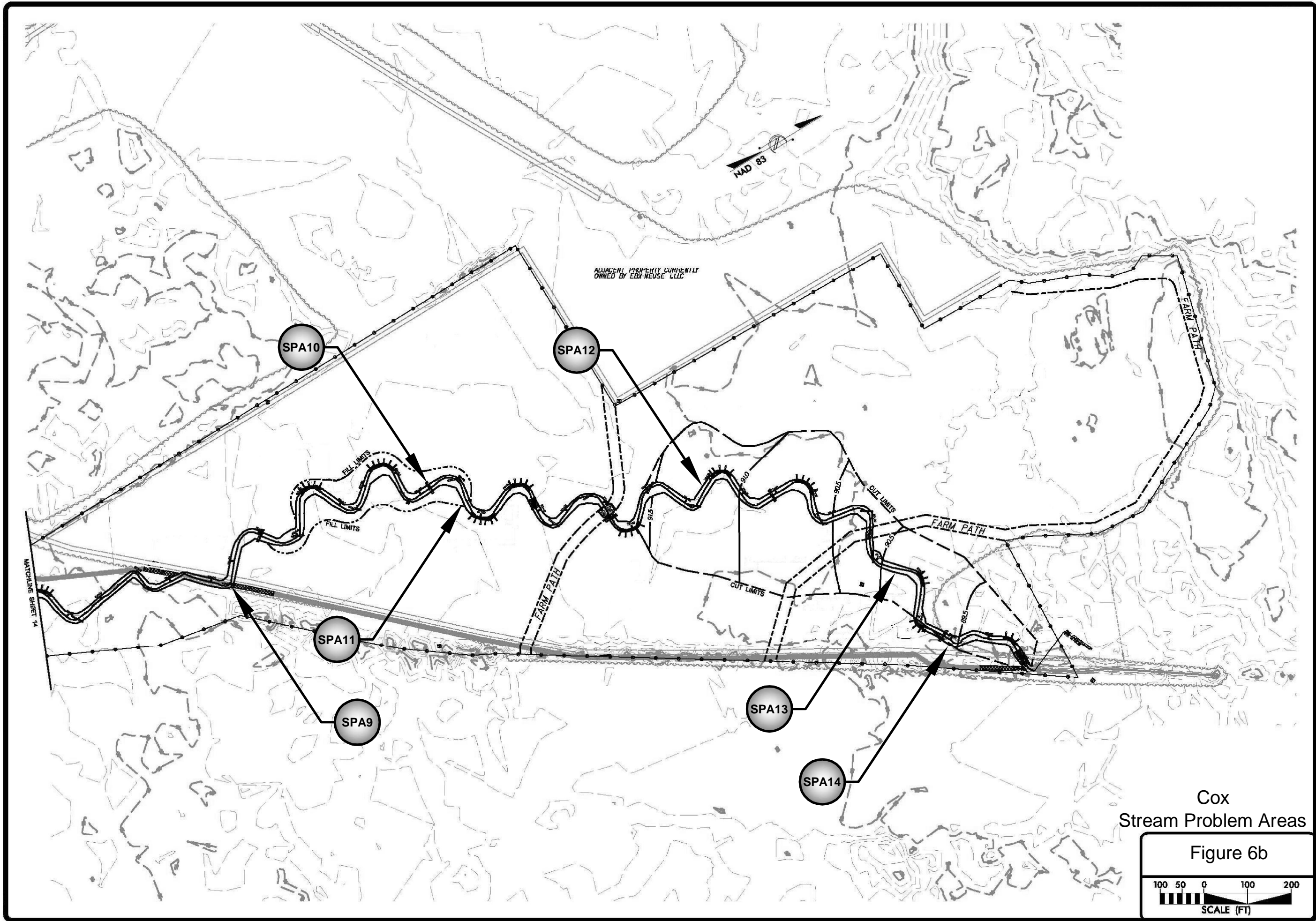
Month Recorded	Crest Gauge
January	---
February	---
March	0.0
April	0.0
May	0.0
June	0.0
July	0.0
August	1.2
September	1.5
October	0.0
November	---
December	---



Cox
Stream Problem Areas

Figure 6a





Cox
Stream Problem Areas

Figure 6b

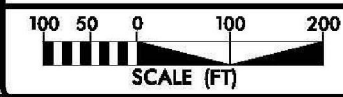


Table 11. Summary of Morphologic Monitoring Parameters

Parameter	Year 2 (Avg of 16)	Year 3 (Avg of 16)
Bankfull Xsec Area, Abkf (sq ft)	10.9	13.6
Avg. Bankfull Width, Wbkf (ft)	15.3	16.7
Bankfull W/D	22.8	21.4
Bankfull Mean Depth, Dbkf (ft)	0.7	0.8
Bankfull Max Depth, Dmax (ft)	1.3	1.4

5.5 STREAM CONCLUSIONS

Overall the Cox stream mitigation is performing as designed. Cross section and profile data indicates that little change has occurred since the stream was built. Two bankfull events occurred at the site in 2008. Several log weirs have experienced significant end cutting and undercutting, and bank erosion has occurred along portions of the stream. It was concluded that the site is on track to achieve the success criteria specified in the Restoration Plan for the site.

6.0 CONCLUSIONS AND RECOMMENDATIONS

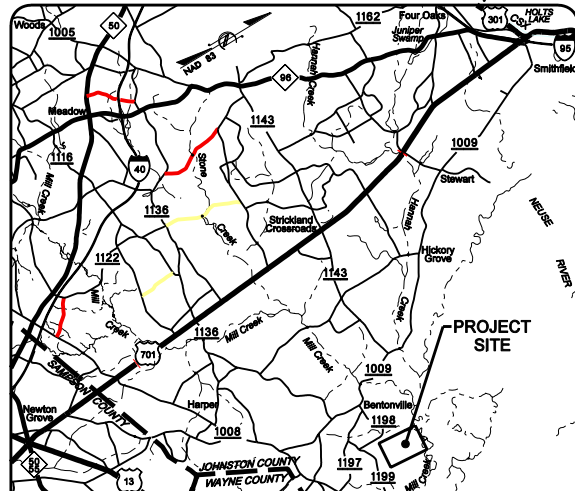
- Year Three hydrologic monitoring demonstrates that the site is on track to achieve the wetland hydrology criteria specified in the Restoration Plan for. In 2008, eleven of the twelve gauges exceeded the 7 percent hydrologic success criteria with several of those recording a wetland hydroperiod of 16 percent or more. The remaining gauge had a significant hydroperiod of 4 percent of the growing season and outperformed two of the five reference gauges. Overall, the mitigation site recorded a range of hydroperiods very similar to the range of hydroperiods recorded at the reference wetland site.
- Vegetation monitoring has documented the average number of stems per acre on site to be 640, which is a survival rate of greater than 90 percent based on the initial planting count of 710 stems per acre. Vegetation survival should remain acceptable across the site. The biggest concern is the amount of undesirable volunteers in Plots 10 and 11. These areas are overpopulated due to the seed trees in close proximity as this is the narrowest point of the site. The site has met the interim success criteria of 320 trees per acre at the end of year three and is on track to meet the final success criteria of 260 trees per acre at the end of year five.
- The restored stream channel has remained stable and is providing the intended habitat and hydrologic functions. Two bankfull events were recorded at the site in 2008. All monitoring cross sections showed very little adjustment in stream dimension. Areas requiring observation include several log weirs that have experienced significant end cutting and undercutting, several areas of bank erosion. The site is on track to achieve the stream success criteria specified in the Restoration Plan for the site.
- Vegetation, hydrologic and stream monitoring will continue through 2010.

APPENDIX A

As-Built Survey

COX SITE

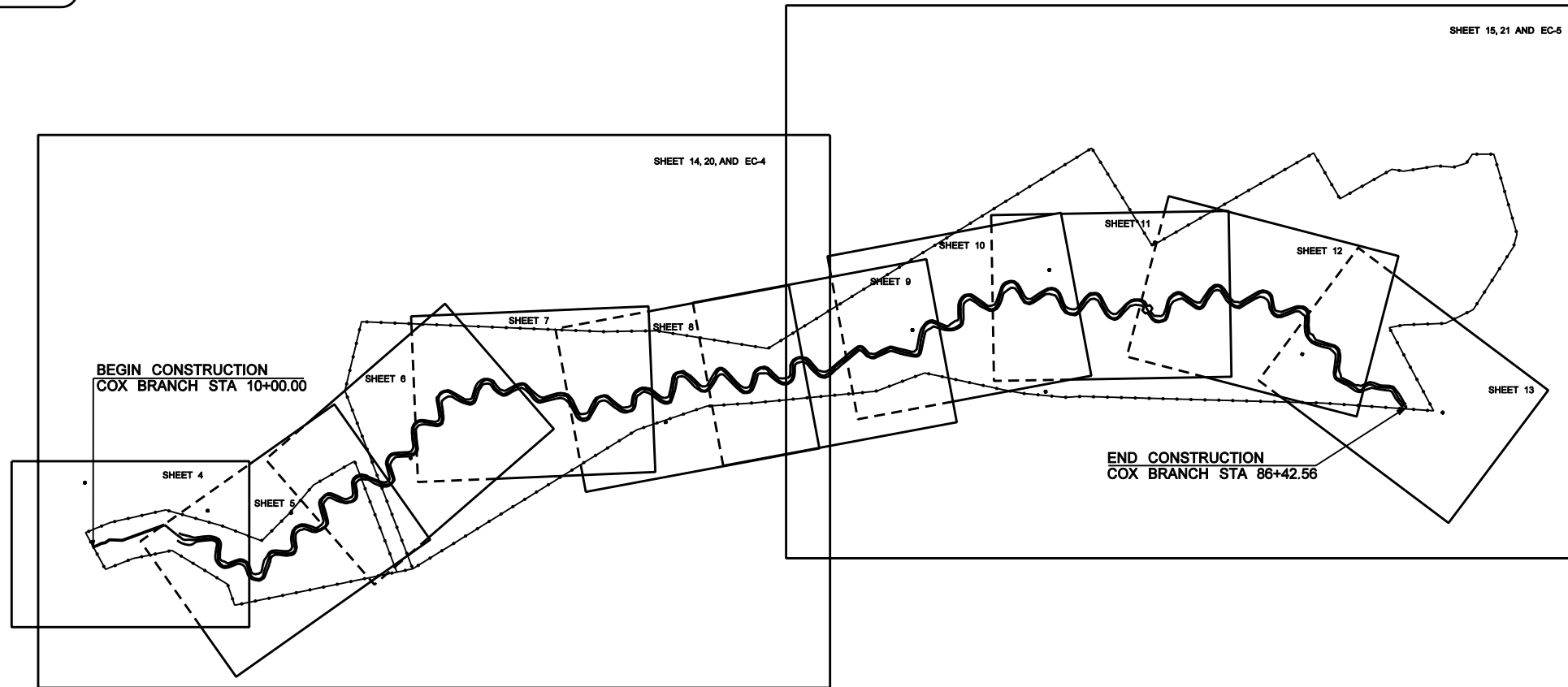
PROJECT: 0214R



VICINITY MAP

INDEX OF SHEETS

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



**EBX NEUSE - I, LLC
COX SITE**

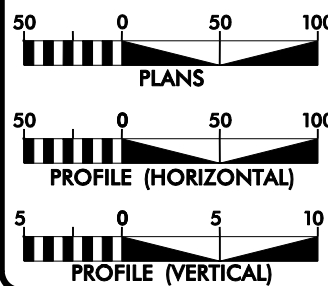
JOHNSTON COUNTY

**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	01/25/06	JOHN HUTTON	KEVIN TWEEDY


GRAPHIC SCALES



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		
RIVERINE WETLAND	=	26.8 ACRES
AS-BUILT WETLAND ACREAGE		
NON-RIVERINE WETLAND	=	16.9 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:



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

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.

2/26/03


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 28, 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	

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

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

*S.U.E = SUBSURFACE UTILITY ENGINEER

CONVENTIONAL SYMBOLS

ROADS & RELATED ITEMS

Edge of Pavement	---
Curb	— — — —
Prop. Slope Stakes Cut	— — — — C
Prop. Slope Stakes Fill	— — — — F
Prop. Woven Wire Fence	○ — ○ — ○ — ○
Prop. Chain Link Fence	□ — □ — □ — □
Prop. Barbed Wire Fence	◇ — ◇ — ◇ — ◇
Prop. Wheelchair Ramp	WCR
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	— — — — (C/A)
Prop. Control of Access Line	— — — — (S)
Exist. Easement Line	— — — — E
Prop. Temp. Construction Easement Line	— — — — E
Prop. Temp. Drainage Easement Line	— — — — TDE
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	— — — —

Recorded Water Line	— — — —
Designated Water Line (S.U.E.*)	— — — —
Sanitary Sewer	— — — — SS
Recorded Sanitary Sewer Force Main	— — — — FSS
Designated Sanitary Sewer Force Main(S.U.E.*)	— — — — FSS
Recorded Gas Line	— — — — G
Designated Gas Line (S.U.E.*)	— — — — G
Storm Sewer	— — — — S
Recorded Power Line	— — — — P
Designated Power Line (S.U.E.*)	— — — — P
Recorded Telephone Cable	— — — — T
Designated Telephone Cable (S.U.E.*)	— — — — T
Recorded U/G Telephone Conduit	— — — — TC
Designated U/G Telephone Conduit (S.U.E.*)	— — — — TC
Unknown Utility (S.U.E.*)	— — — — TUTL
Recorded Television Cable	— — — — TV
Designated Television Cable (S.U.E.*)	— — — — TV
Recorded Fiber Optics Cable	— — — — FO
Designated Fiber Optics Cable (S.U.E.*)	— — — — 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	EP
Property Corner	+
Property Monument	⊕
Property Number	123
Parcel Number	6
Fence Line	— — — —
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	— — — —

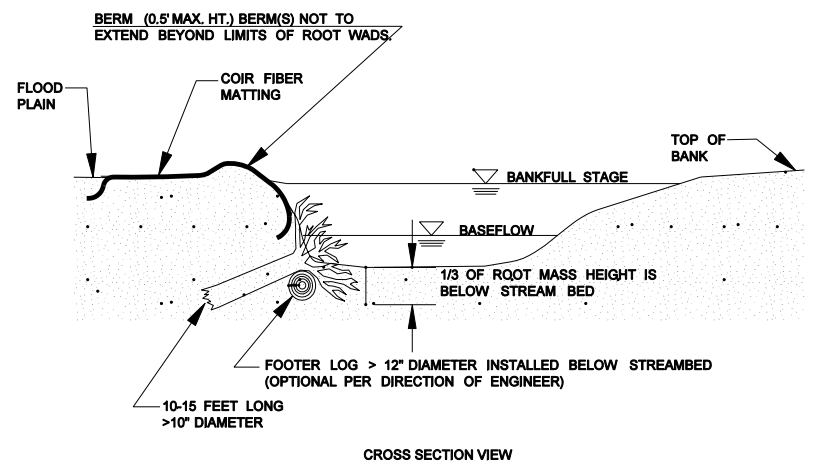
RAILROADS

Standard Gauge	— — — —
RR Signal Milepost	— — — —
Switch	— — — —

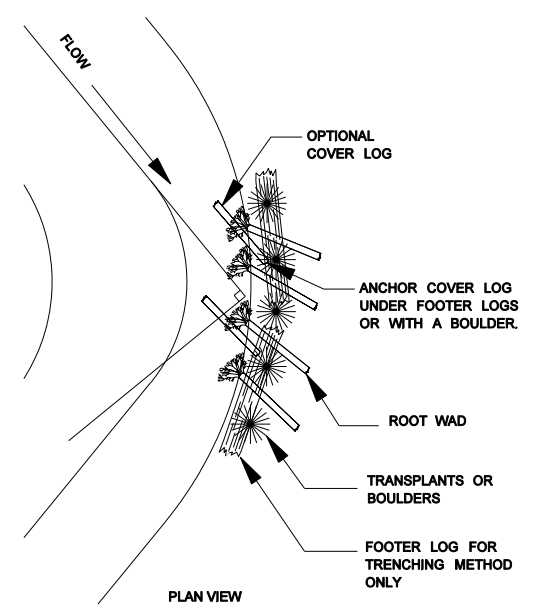
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027337
AUGUST 26, 2005
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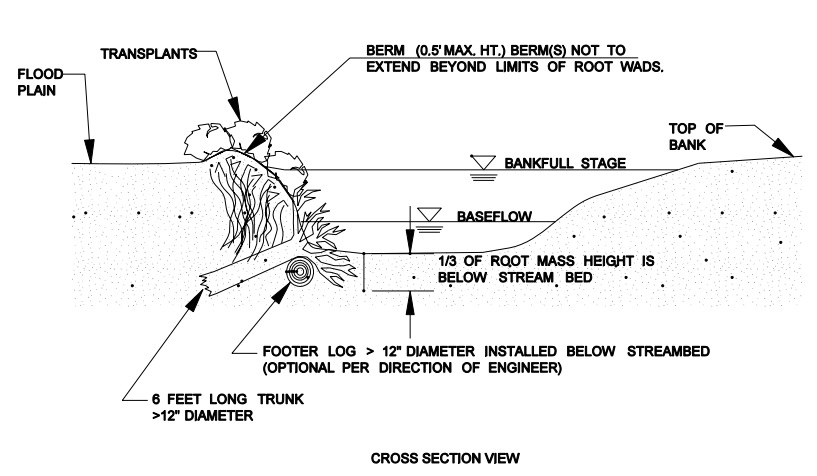
ROOT WADS WITHOUT TRANSPLANTS
NTS



ROOT WADS



ROOT WADS WITH TRANSPLANTS
NTS



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'.

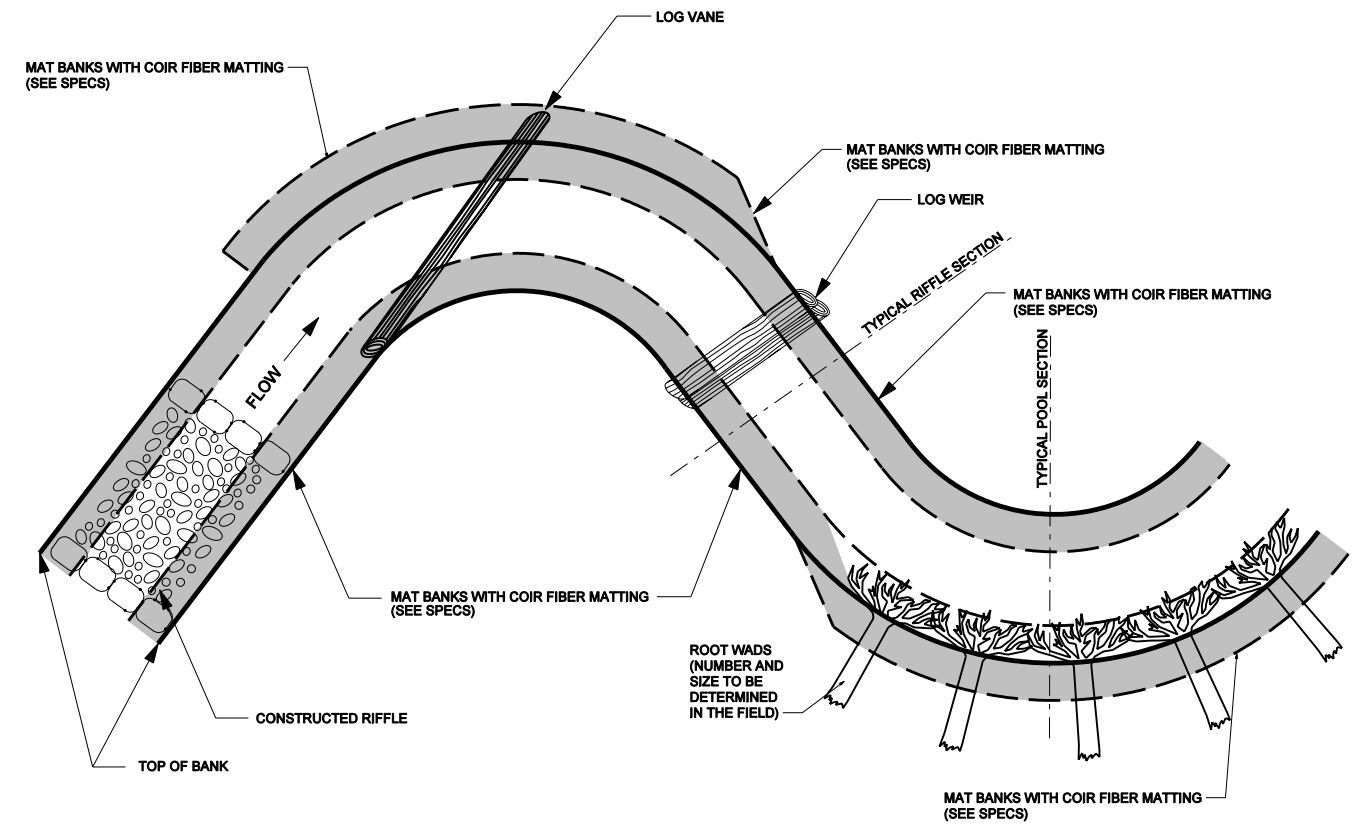
TYPICAL STRUCTURE PLACEMENT

STRUCTURE NOTES:

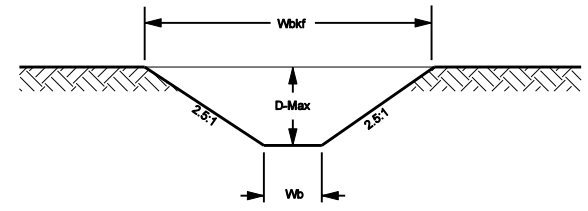
- GENERALLY LOG WEIRS, ROOT WADS, LOG VANES AND COIR FIBER MATTING WILL BE INSTALLED IN THE LOCATION AND SEQUENCE AS SHOWN.
- ADDITIONAL STRUCTURES OR CHANGES TO STRUCTURE LOCATIONS MAY BE MADE BY THE DESIGN ENGINEER DURING CONSTRUCTION.

NOTES:

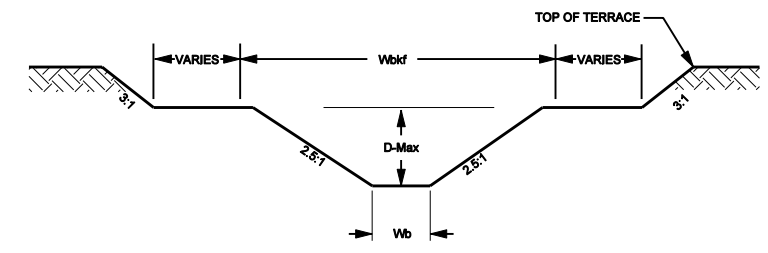
- COIR FIBER MATTING TO BE INSTALLED ON ALL RESTORED STREAMBANKS.
- IF ROOT WADS DO NOT COVER ENTIRE SLOPE ON OUTSIDE OF MEANDER BENDS, COIR FIBER MATTING IS NEEDED.



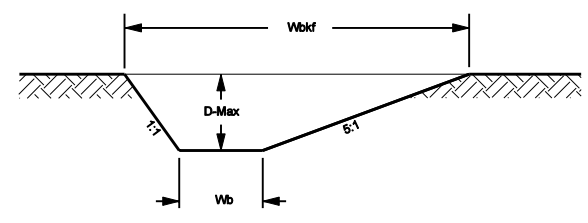
TYPICAL RIFFLE, POOL, AND BANKFULL BENCH CROSS SECTIONS



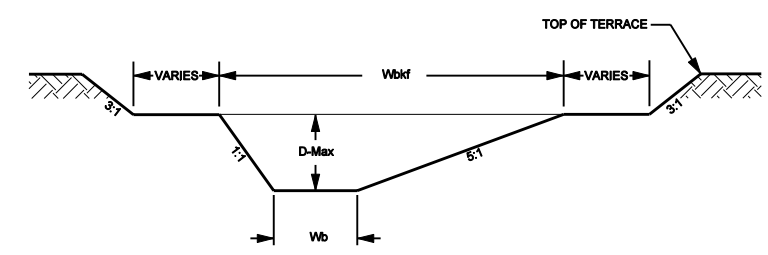
RIFFLE



RIFFLE WITH BANKFULL BENCH



POOL



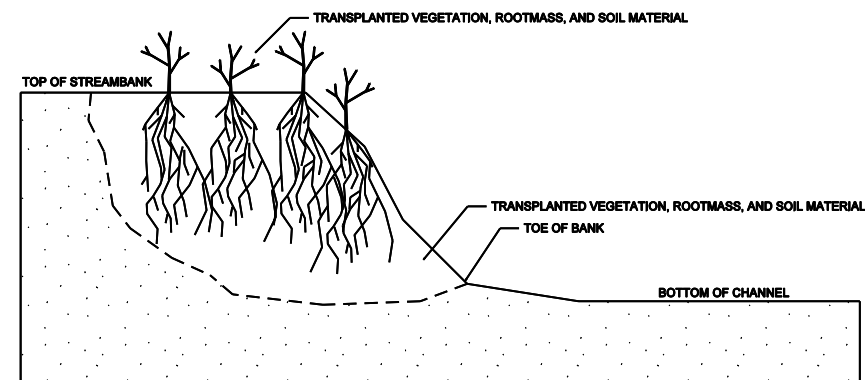
POOL WITH BANKFULL BENCH

COX	
RIFFLE	POOL
13.7	18.0
1.0	1.5
14.0	12.1
13.5	28.9
9.0	5.4

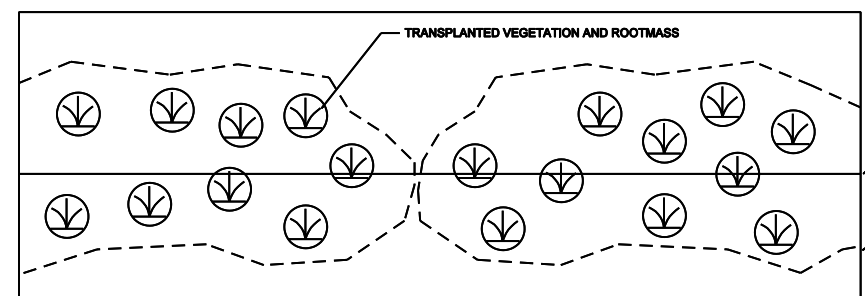
WIDTH OF BANKFULL (Wbkf)
MAXIMUM DEPTH (D-Max)
WIDTH TO DEPTH RATIO (Wbkf / D)
BANKFULL AREA (Abkf)
BOTTOM WIDTH (Wb)

NOTES:
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.

TRANSPLANTED VEGETATION

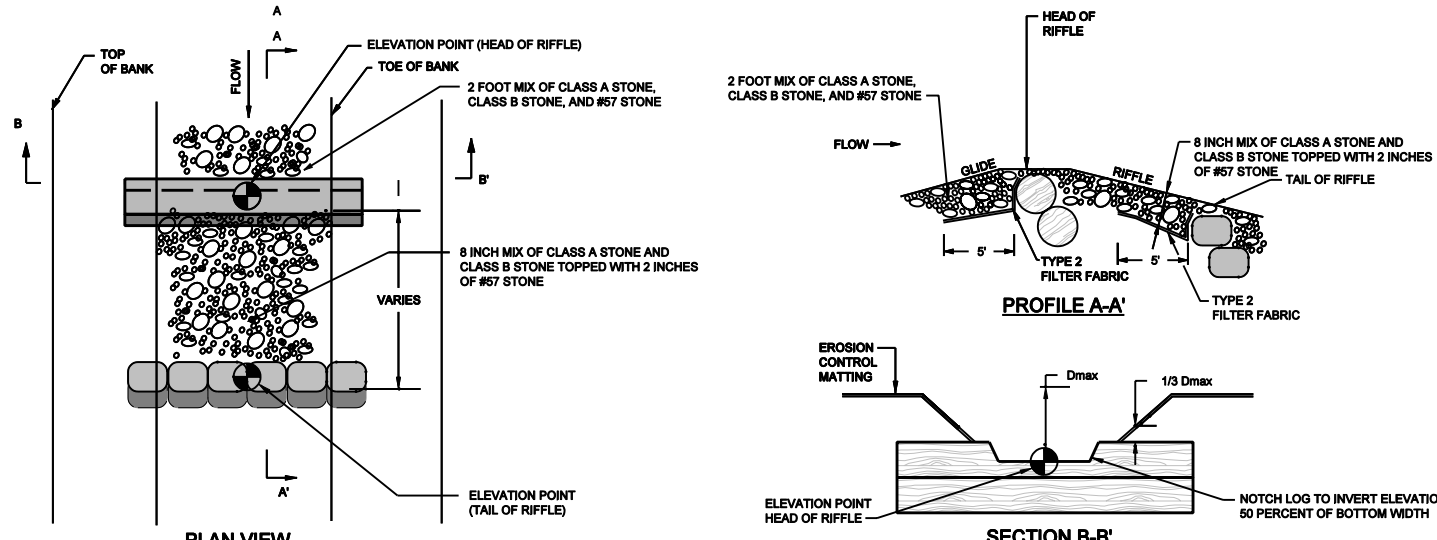


CROSS SECTION VIEW



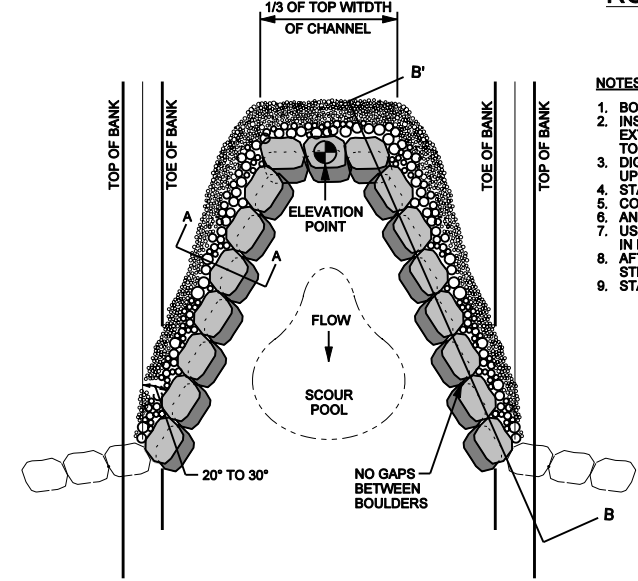
PLAN VIEW

- NOTES:-
1. 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.
 2. 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.
 3. PLACE TRANSPLANT IN THE BANK TO BE STABILIZED SO THAT VEGETATION IS ORIENTATED VERTICALLY.
 4. FILL IN ANY HOLES AROUND THE TRANSPLANT AND COMPACT.
 5. ANY LOOSE SOIL LEFT IN THE STREAM SHOULD BE REMOVED.
 6. PLACE MULTIPLE TRANSPLANTS CLOSE TOGETHER SUCH THAT THEY TOUCH.



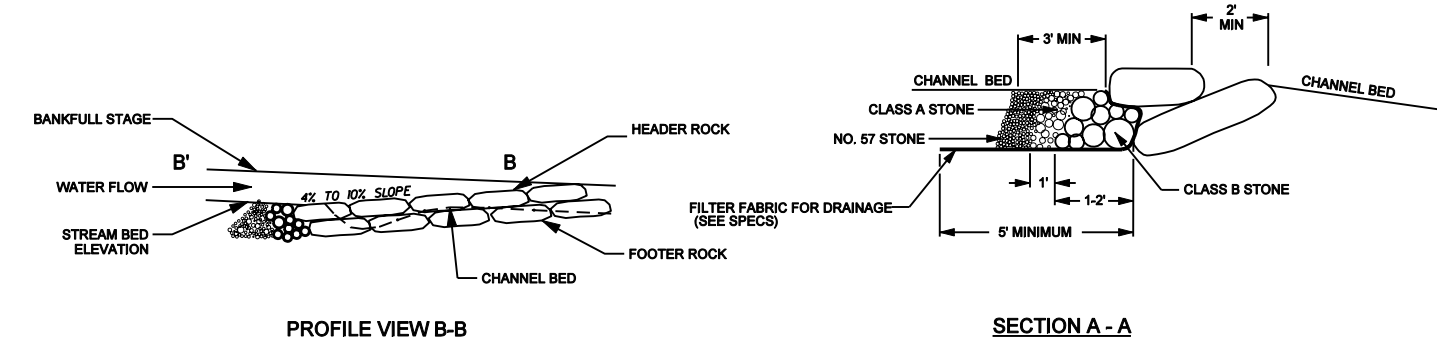
- NOTES:
1. LOGS MUST BE AT LEAST 10 INCHES IN DIAMETER AND 15 FEET LONG.
 2. DIG A TRENCH BELOW THE BED FOR THE UPSTREAM FOOTER LOGS AND STOCK PILE CUT MATERIAL.
 3. PLACE FOOTER LOGS FIRST AND THEN HEADER (TOP) LOG. SET HEADER LOG APPROXIMATELY 3 INCHES ABOVE THE INVERT ELEVATION.
 4. CUT A NOTCH IN THE HEADER LOG APPROXIMATELY 50 PERCENT OF THE CHANNEL BOTTOM WIDTH AND EXTENDING DOWN TO THE INVERT ELEVATION.
 5. PLACE FOOTER ROCK FIRST AT TAIL OF RIFFLE AND THEN HEADER ROCK.
 6. 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.
 7. 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.
 8. 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.

ROCK CROSS VANE

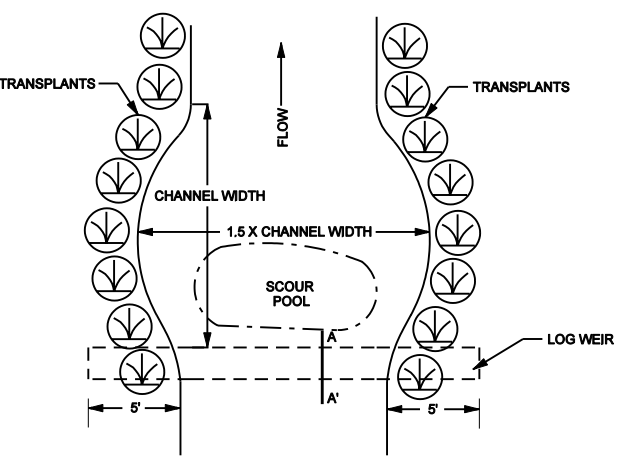


PLAN VIEW

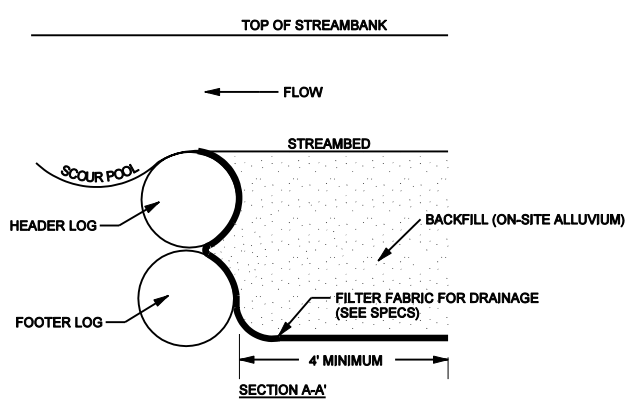
- NOTES FOR ALL VANE STRUCTURES:
1. BOULDERS MUST BE AT LEAST 2' x 2' x 3'.
 2. INSTALL FILTER FABRIC FOR DRAINAGE BEGINNING AT THE MIDDLE OF THE HEADER ROCKS AND EXTEND DOWNWARD TO THE DEPTH OF THE BOTTOM FOOTER ROCK, AND THEN UPSTREAM TO A MINIMUM OF FIVE FEET.
 3. DIG A TRENCH BELOW THE BED FOR FOOTER ROCKS AND PLACE FILL ON UPSTREAM SIDE OF VANE ARM, BETWEEN THE ARM AND STREAMBED.
 4. START AT BANK AND PLACE FOOTER ROCKS FIRST AND THEN HEADER (TOP) ROCK.
 5. CONTINUE WITH STRUCTURE, FOLLOWING ANGLE AND SLOPE SPECIFICATIONS.
 6. AN EXTRA BOULDER CAN BE PLACED IN SCOUR POOL FOR HABITAT IMPROVEMENT.
 7. 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.
 8. 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.
 9. START SLOPE AT BANKFULL STAGE.



LOG WEIR



PLAN VIEW



CROSS SECTION VIEW

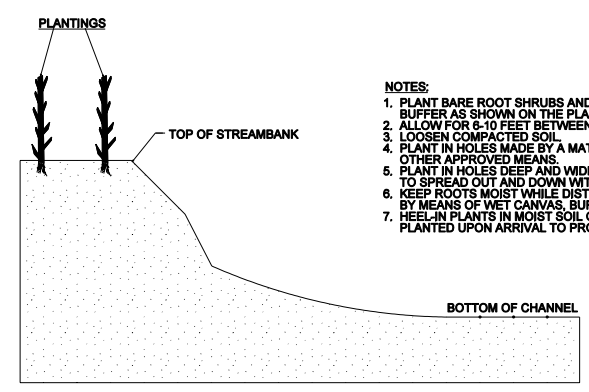
- NOTES:
1. LOGS SHOULD BE AT LEAST 12 INCHES IN DIAMETER, RELATIVELY STRAIGHT, HARDWOOD, AND RECENTLY HARVESTED.
 2. LOGS >24 INCHES IN DIAMETER MAY BE USED ALONE WITHOUT AN ADDITIONAL LOG. FILTER FABRIC SHOULD STILL BE USED TO SEAL AROUND LOG.
 3. PLACE FOOTER LOGS FIRST AND THEN HEADER (TOP) LOG.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

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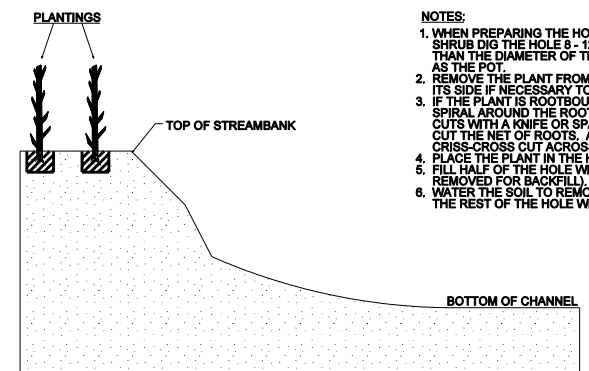
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PLANTING SPECIFICATIONS



CROSS SECTION VIEW OF BARE ROOT PLANTING

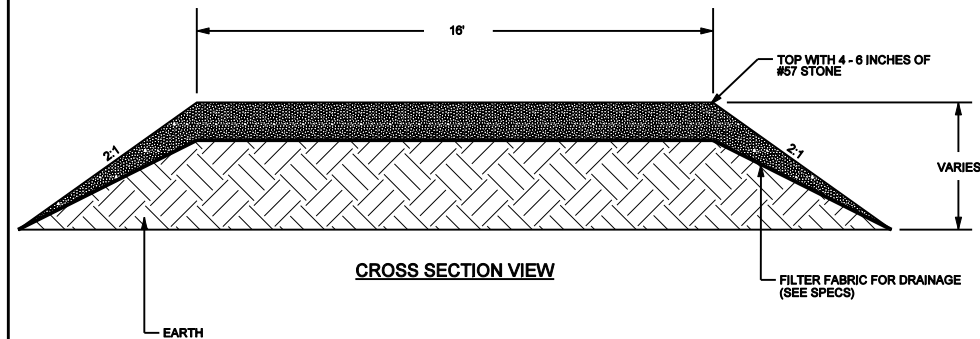
- NOTES:**
1. PLANT BARE ROOT SHRUBS AND TREES TO THE WIDTH OF THE BUFFER AS SHOWN ON THE PLANS.
 2. ALLOW FOR 8-10 FEET BETWEEN PLANTINGS, DEPENDING ON SIZE.
 3. LOOSEN COMPACTED SOIL.
 4. PLANT IN HOLES MADE BY A MATTOCK, DIBBLE, PLANTING BAR, OR OTHER APPROVED MEANS.
 5. PLANT IN HOLES DEEP AND WIDE 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

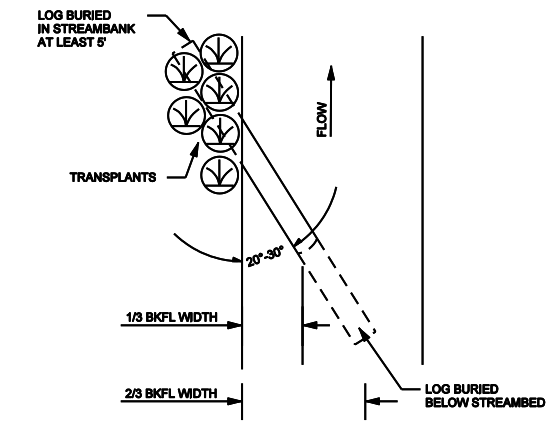
- NOTES:**
1. WHEN PREPARING THE HOLE FOR A POTTED PLANT OR SHRUB DIG THE HOLE 8 - 12 INCHES LARGER THAN THE DIAMETER OF THE POT AND THE SAME DEPTH AS THE POT.
 2. REMOVE THE PLANT FROM THE POT. LAY THE PLANT ON ITS SIDE IF NECESSARY TO REMOVE THE POT.
 3. IF THE PLANT IS ROOTBOUND (ROOTS GROWING IN 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

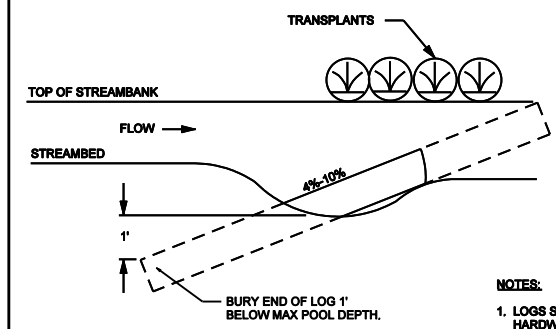


CROSS SECTION VIEW

LOG VANE



PLAN VIEW

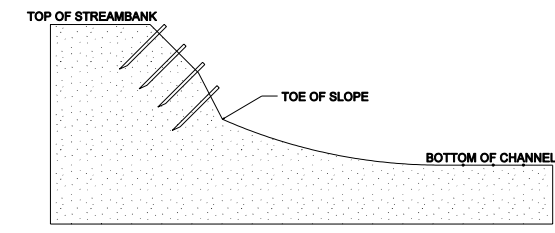


PROFILE VIEW

- NOTES:**
1. LOGS SHOULD BE AT LEAST 12" INCHES 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.

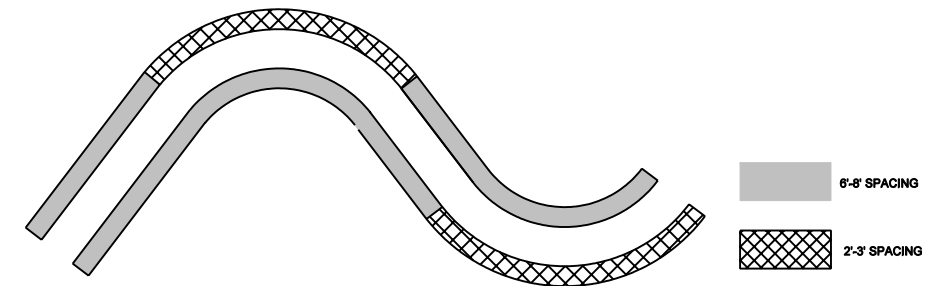
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BUCK ENGINEERING	
8000 Regency Parkway Suite 200 Cary, North Carolina 27511 Phone: 919-463-5488 Fax: 919-463-5490	

LIVE STAKING SPECIFICATION

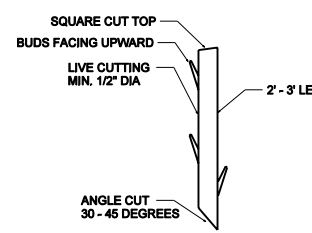


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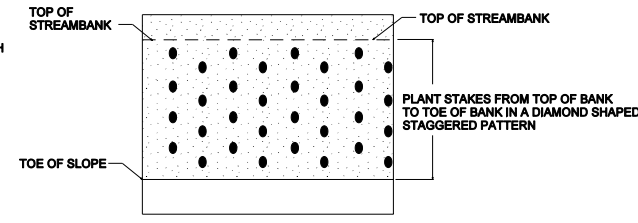
- NOTES:**
1. STAKES SHOULD BE CUT AND INSTALLED ON THE SAME DAY.
 2. DO NOT INSTALL STAKES THAT HAVE BEEN SPLIT.
 3. STAKES MUST BE INSTALLED WITH BUDS POINTING UPWARDS.
 4. STAKES SHOULD BE INSTALLED PERPENDICULAR TO BANK.
 5. STAKES SHOULD BE 1/2 TO 2 INCHES IN DIAMETER AND 2 TO 3 FT LONG.
 6. STAKES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



PLAN VIEW

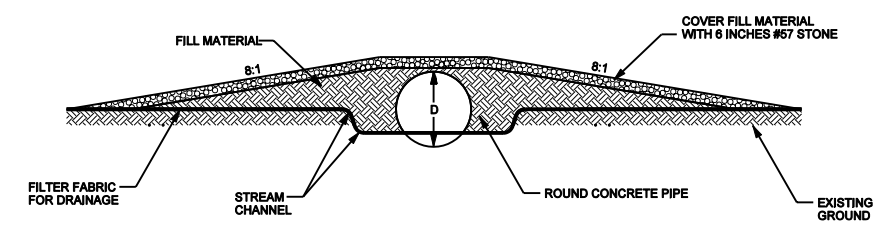


LIVE STAKE DETAIL

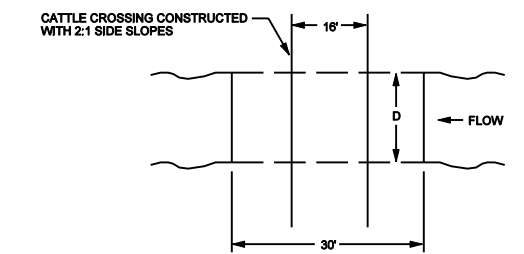


PLAN VIEW

PERMANENT STREAM CROSSING



CROSS SECTION VIEW

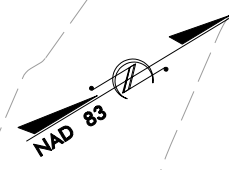


PLAN VIEW

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 Fax: 919-463-5490



REBAR & CAP
 2214423.21 N
 581084.25 E
 120.91 ELEV.

REBAR & CAP
 2214754.00 N
 581425.53 E
 106.18 ELEV.

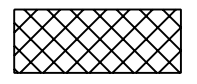
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PHOTO POINT
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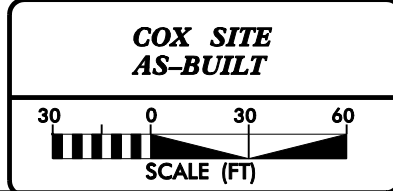
PHOTO POINT
 #2

PHOTO POINT
 #3

MATCHLINE SHEET 5 STA 16+00.00



CHANNEL BLOCK



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MATCHLINE SHEET 4 STA 16+00.00

MATCHLINE SHEET 6 STA 24+50.00

REBAR & CAP
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581689.62 E
104.60 ELEV.

PHOTO POINT
#6

PHOTO POINT
#4

X-SECTION 1
STA 19+58.69

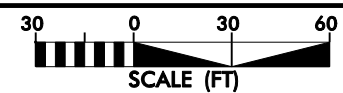
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PHOTO POINT
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 FILL EXISTING CHANNEL

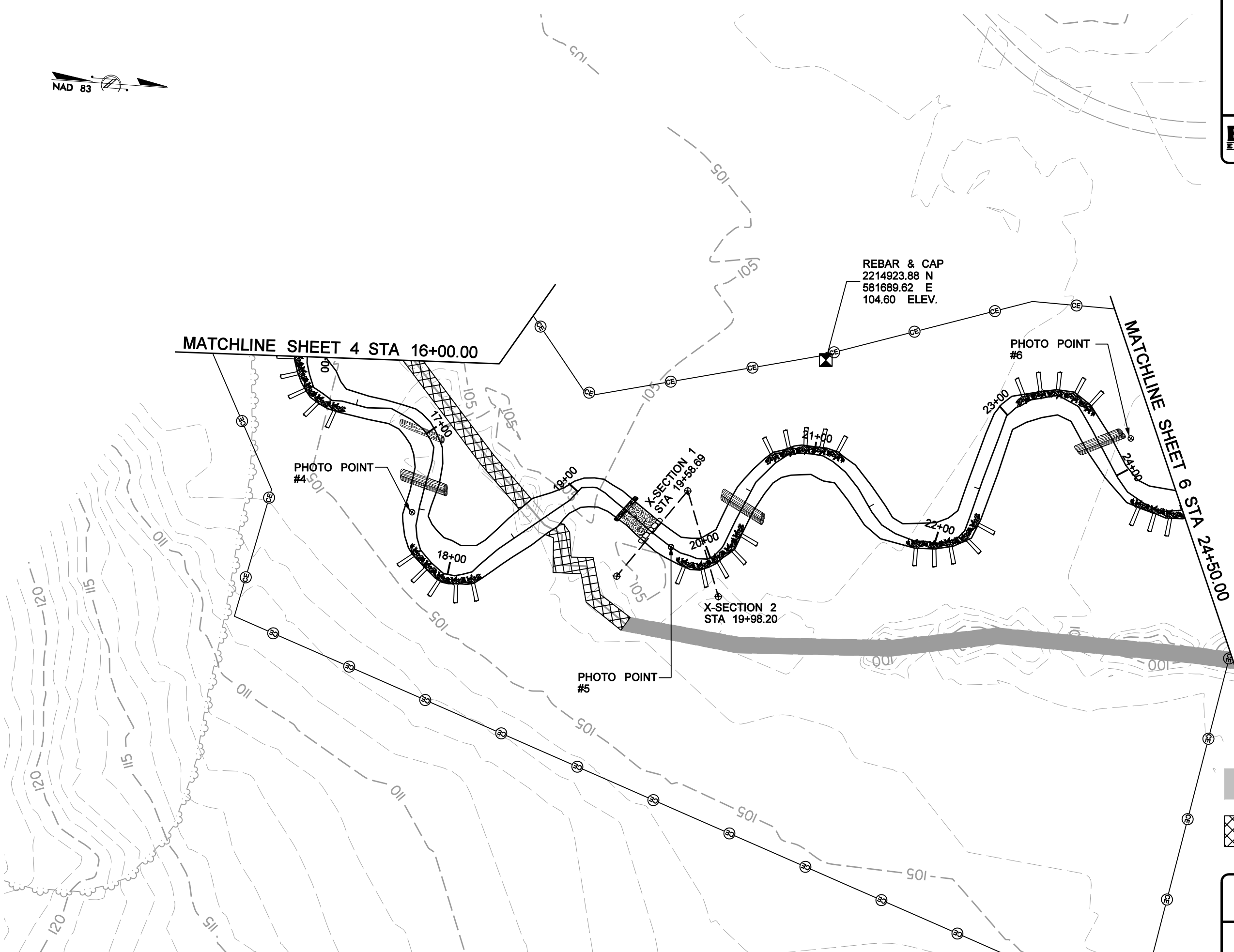
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**COX SITE
AS-BUILT**



2/26/03

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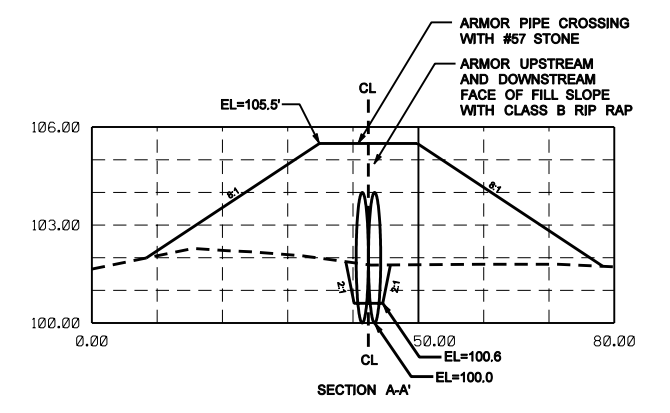
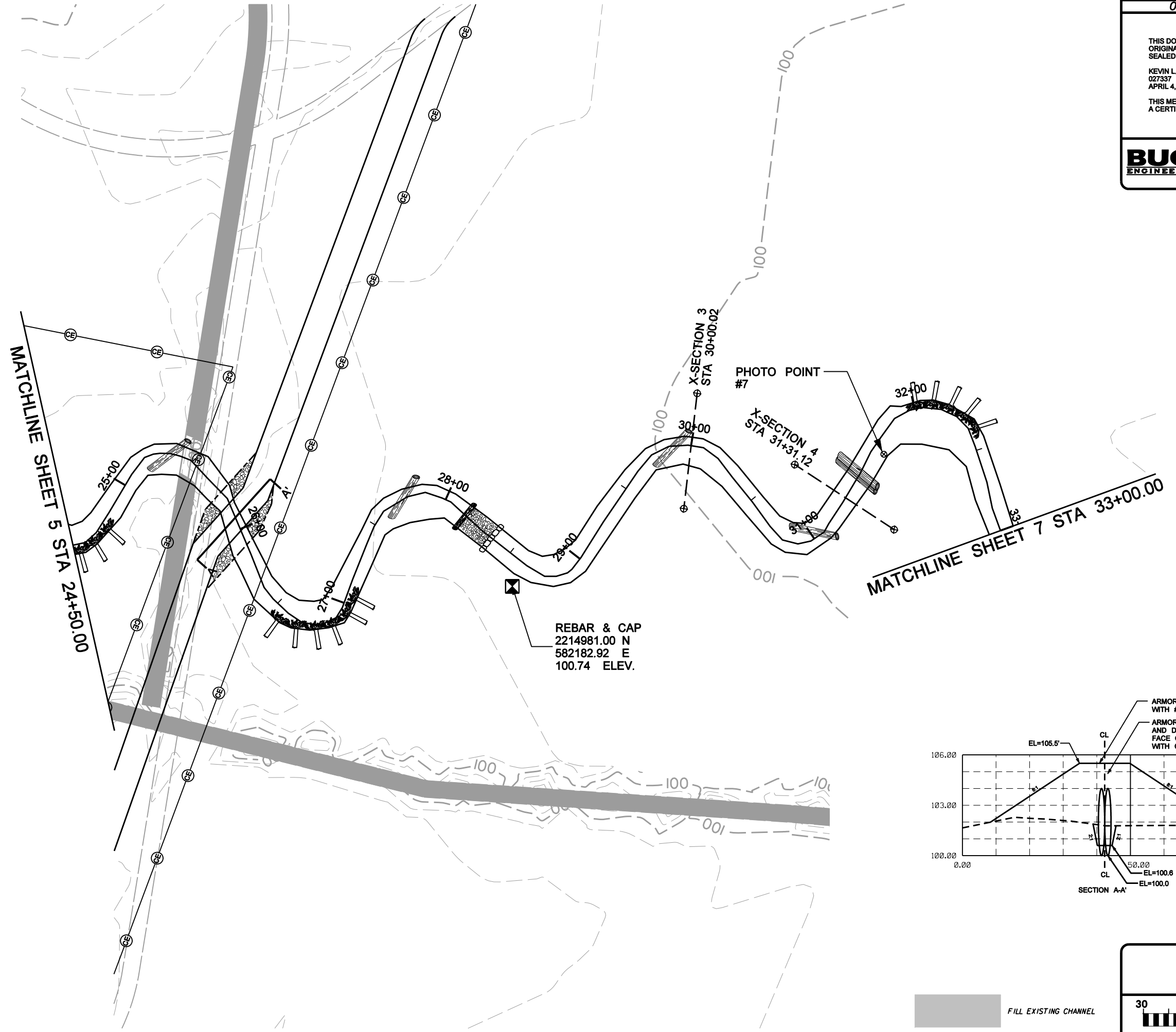
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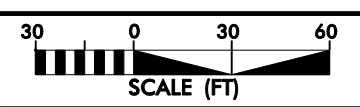
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**COX SITE
AS-BUILT**



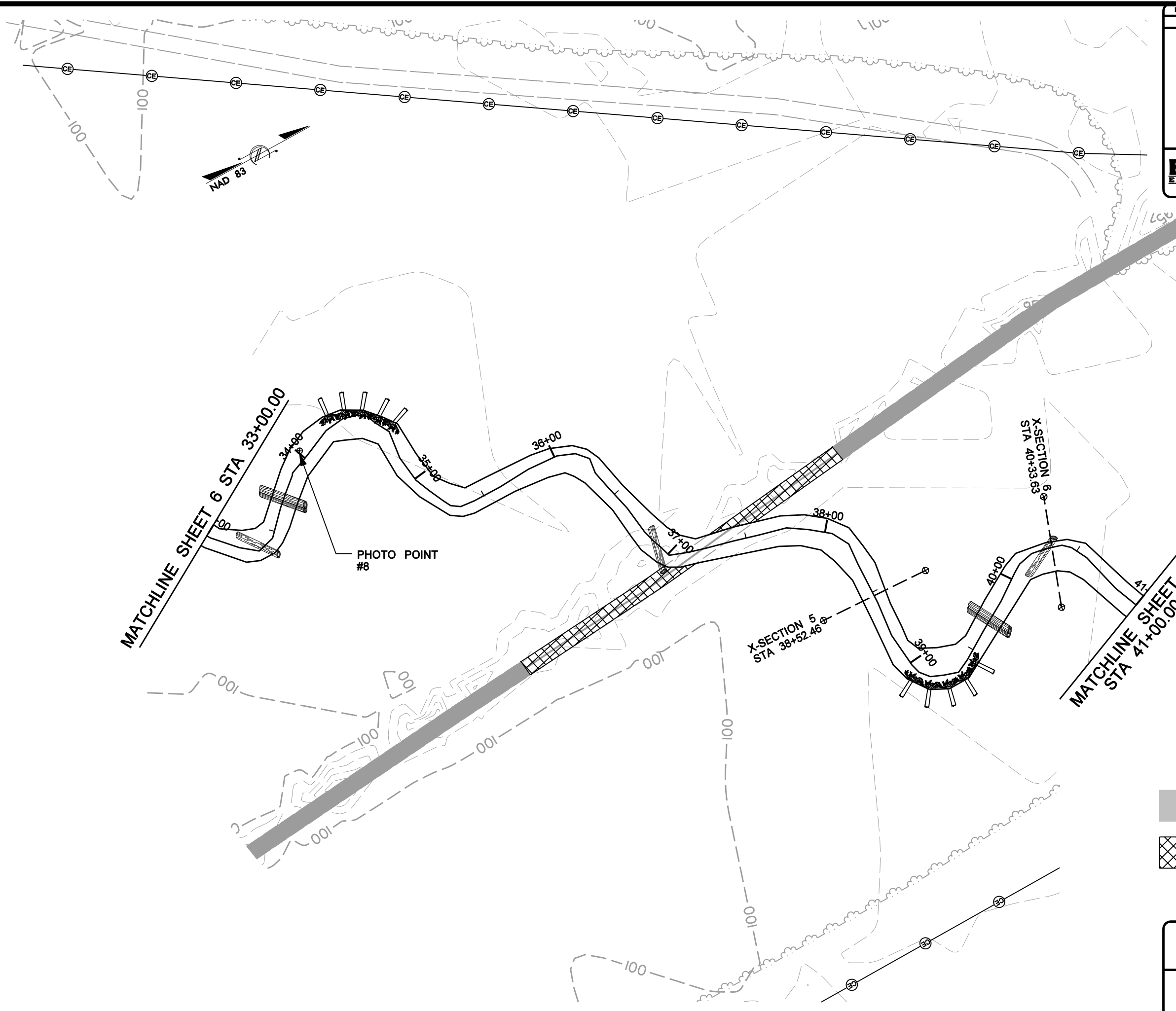
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2/26/03

4/12/2006
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 FILL EXISTING CHANNEL

 CHANNEL BLOCK

**COX SITE
 AS-BUILT**

30 0 30 60
 SCALE (FT)

PROJECT ENGINEER

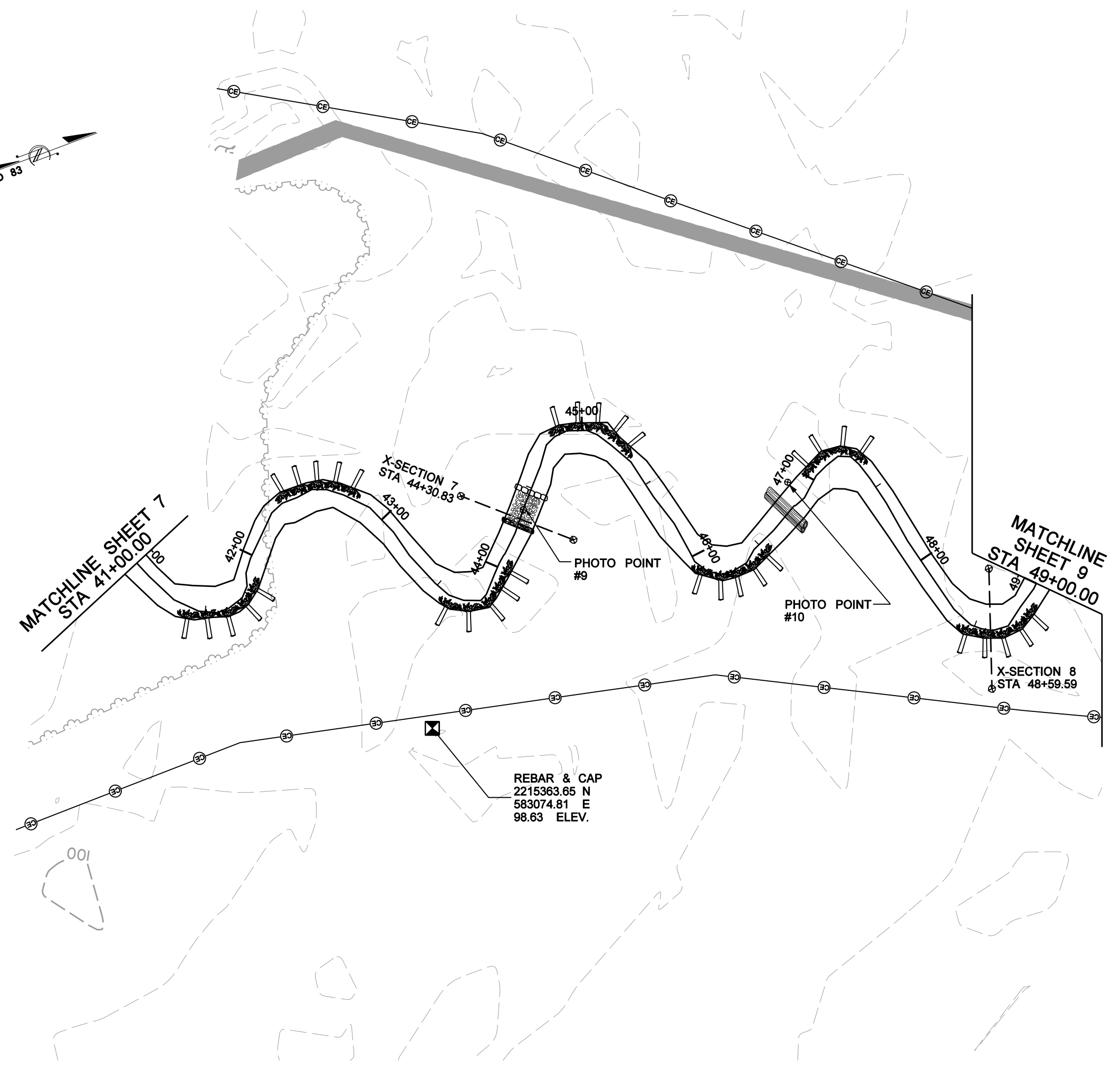
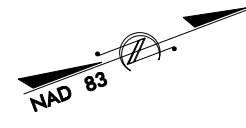
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FILL EXISTING CHANNEL

**COX SITE
AS-BUILT**

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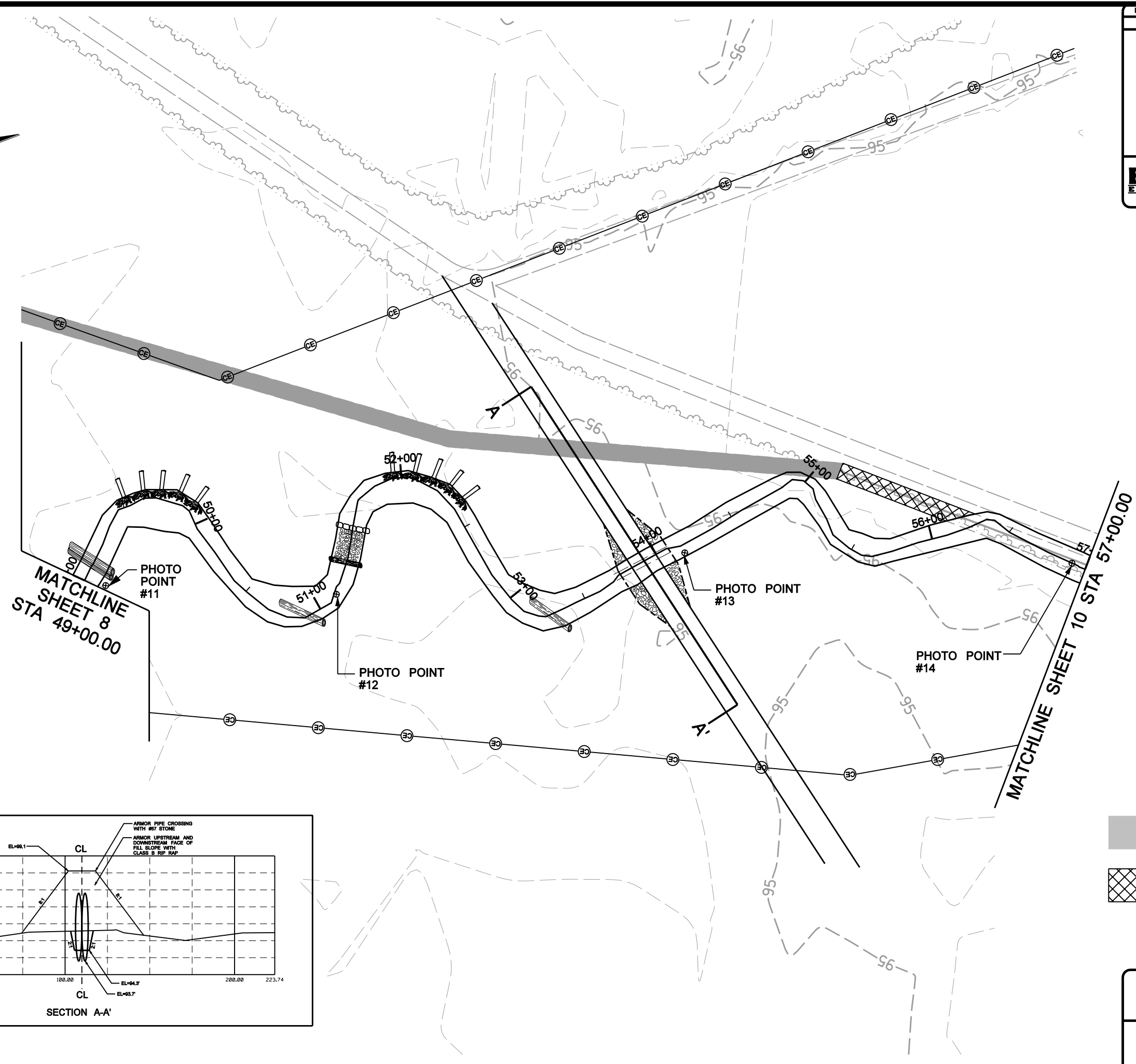
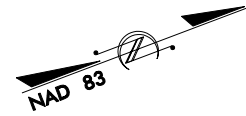
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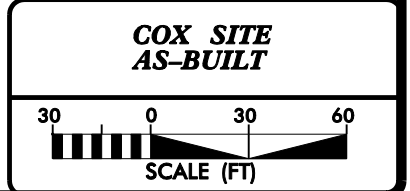
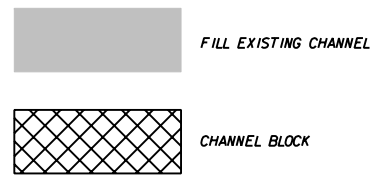
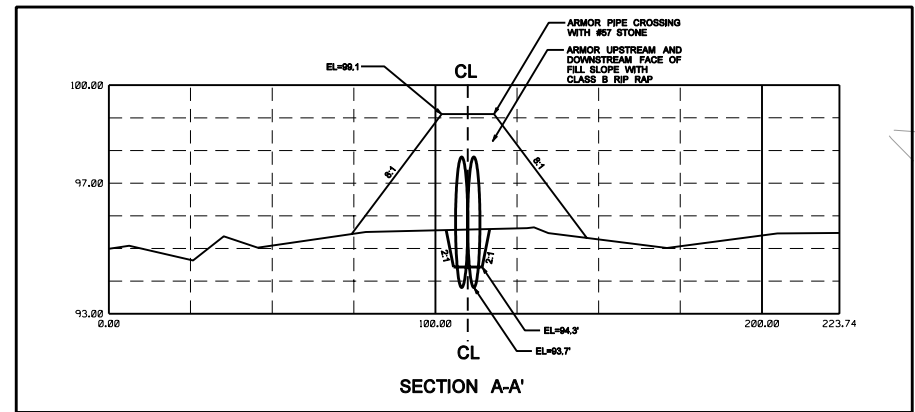
KEVIN L. TWEEDY
027337
APRIL 4, 2006

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MATCHLINE
SHEET 8
STA 49+00.00

MATCHLINE SHEET 10 STA 57+00.00

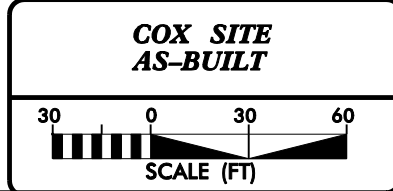
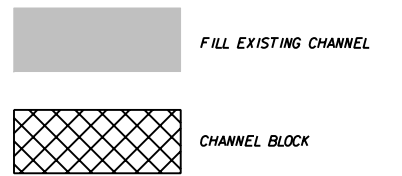
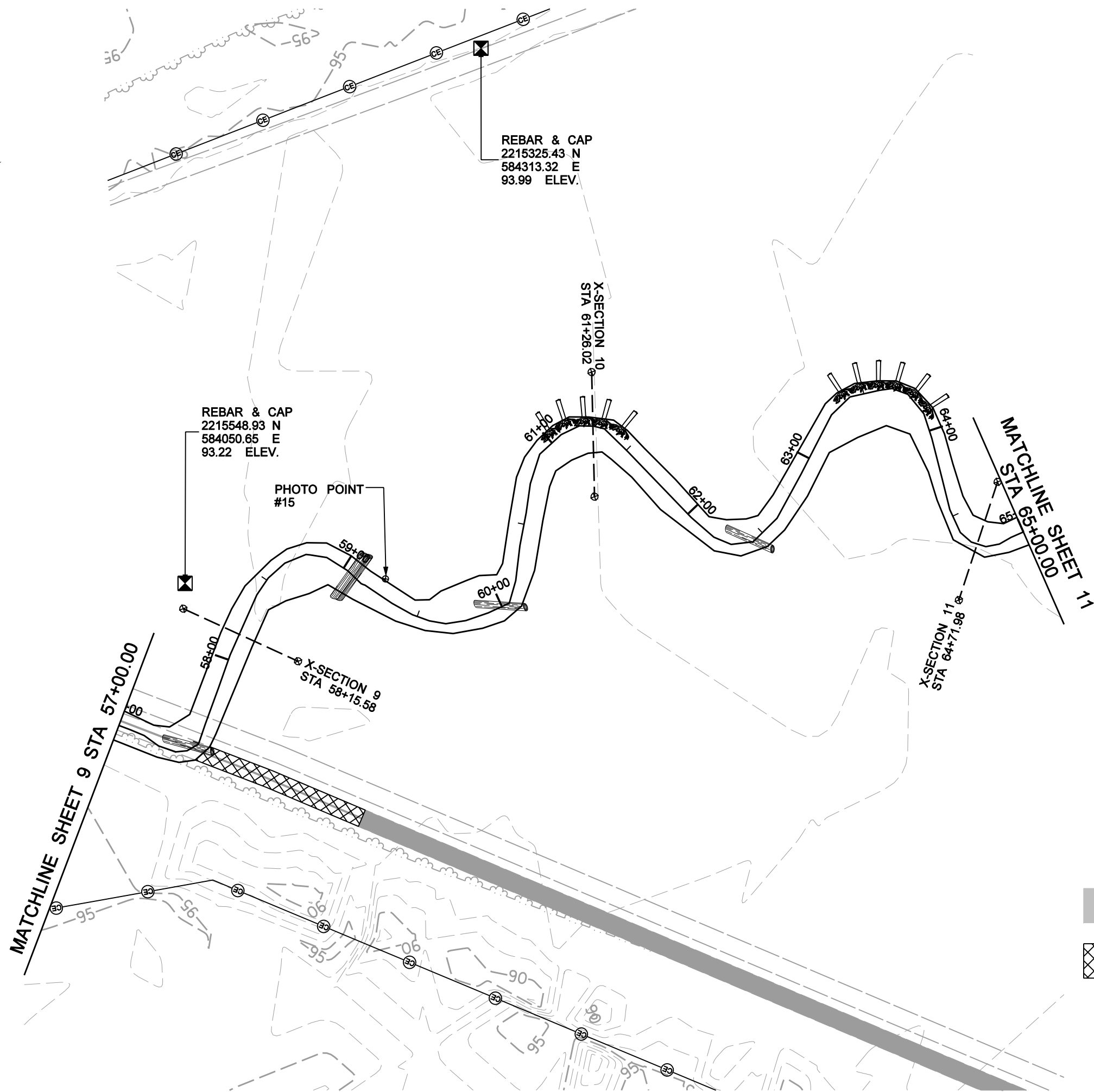
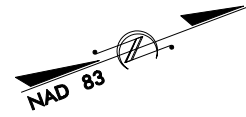


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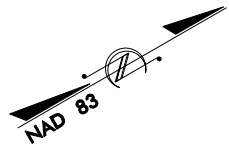
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Cary, North Carolina 27511
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Fax: 919-463-5490



REBAR & CAP
2215622.36 N
584609.39 E
91.54 ELEV.

REBAR & CAP
2215740.31 N
585002.58 E
90.57 ELEV.

PHOTO POINT
#16

PHOTO POINT
#17

PHOTO POINT
#18

MATCHLINE SHEET 10
STA 65+00.00

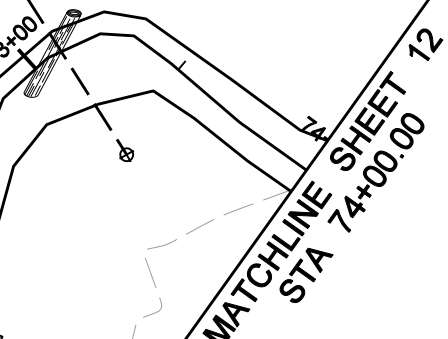
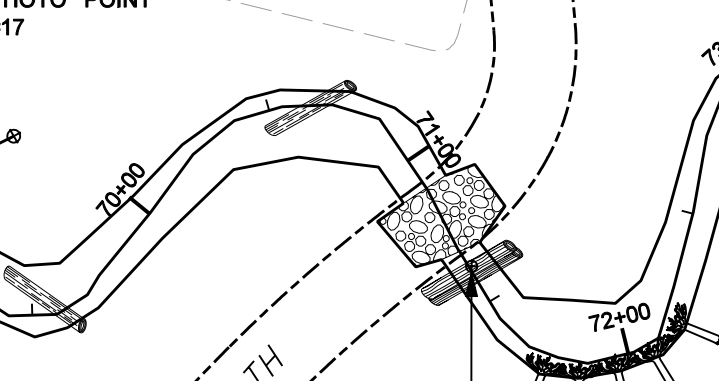
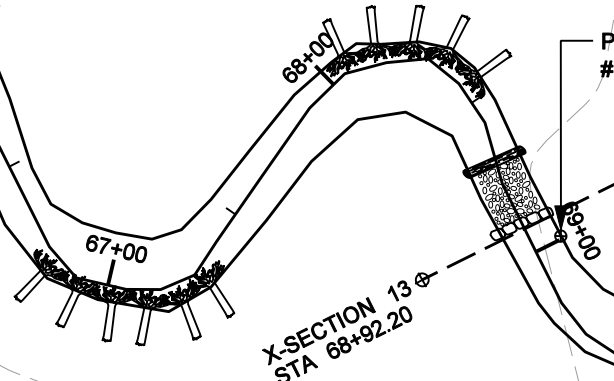
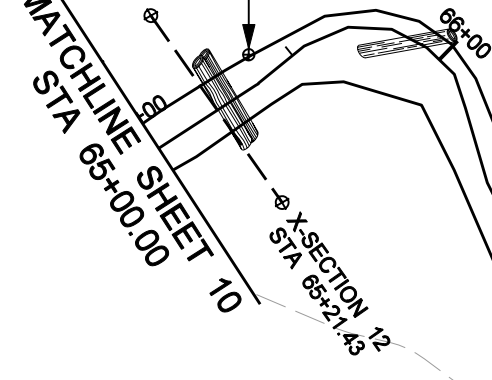
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STA 65+21.43

X-SECTION 13
STA 68+92.20

X-SECTION 14
STA 73+09.46

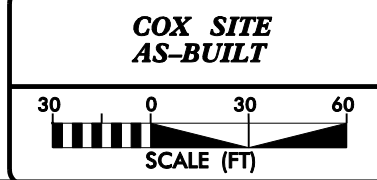
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FARM PATH



2/26/03

4/12/2006
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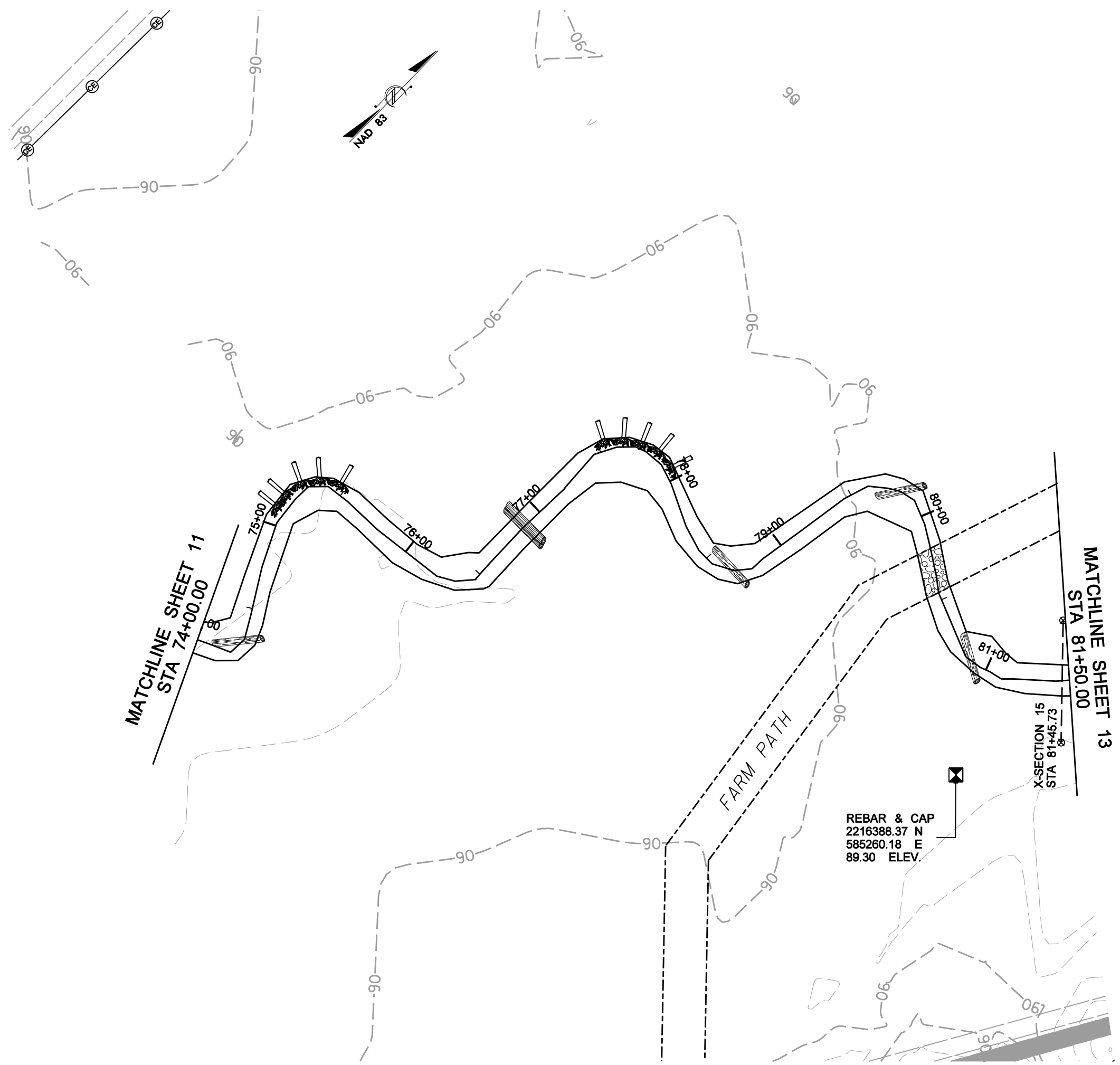
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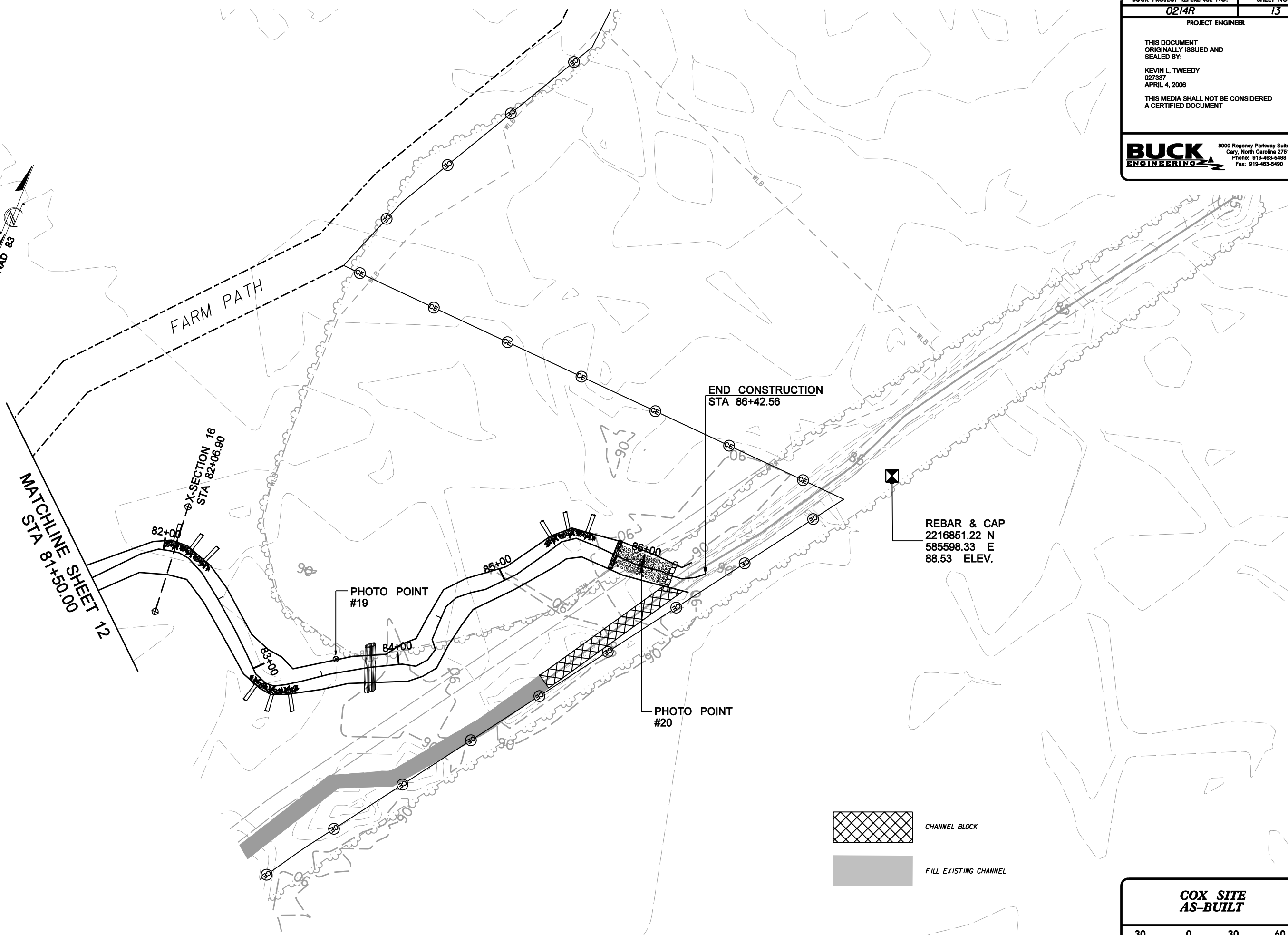
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**COX SITE
AS-BUILT**

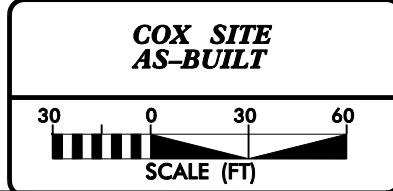
SCALE (FT)

PROJECT ENGINEER
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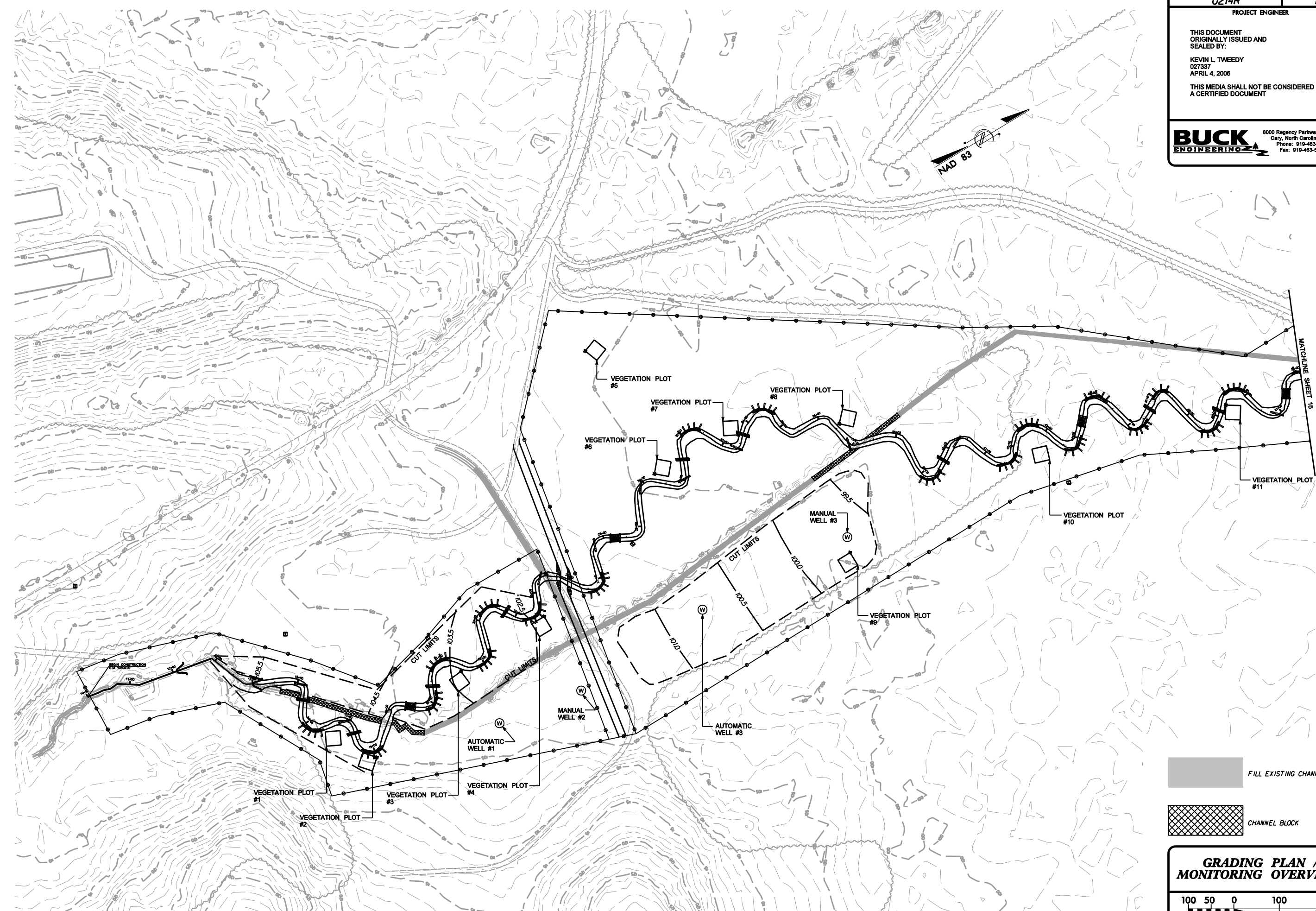
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Fax: 919-463-5490

2/26/03

4/2/2006
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 FILL EXISTING CHANNEL

 CHANNEL BLOCK

**GRADING PLAN /
MONITORING OVERVIEW**

100 50 0 100 200
SCALE (FT)

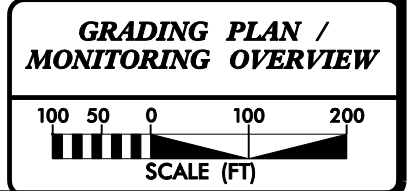
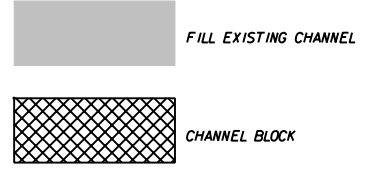
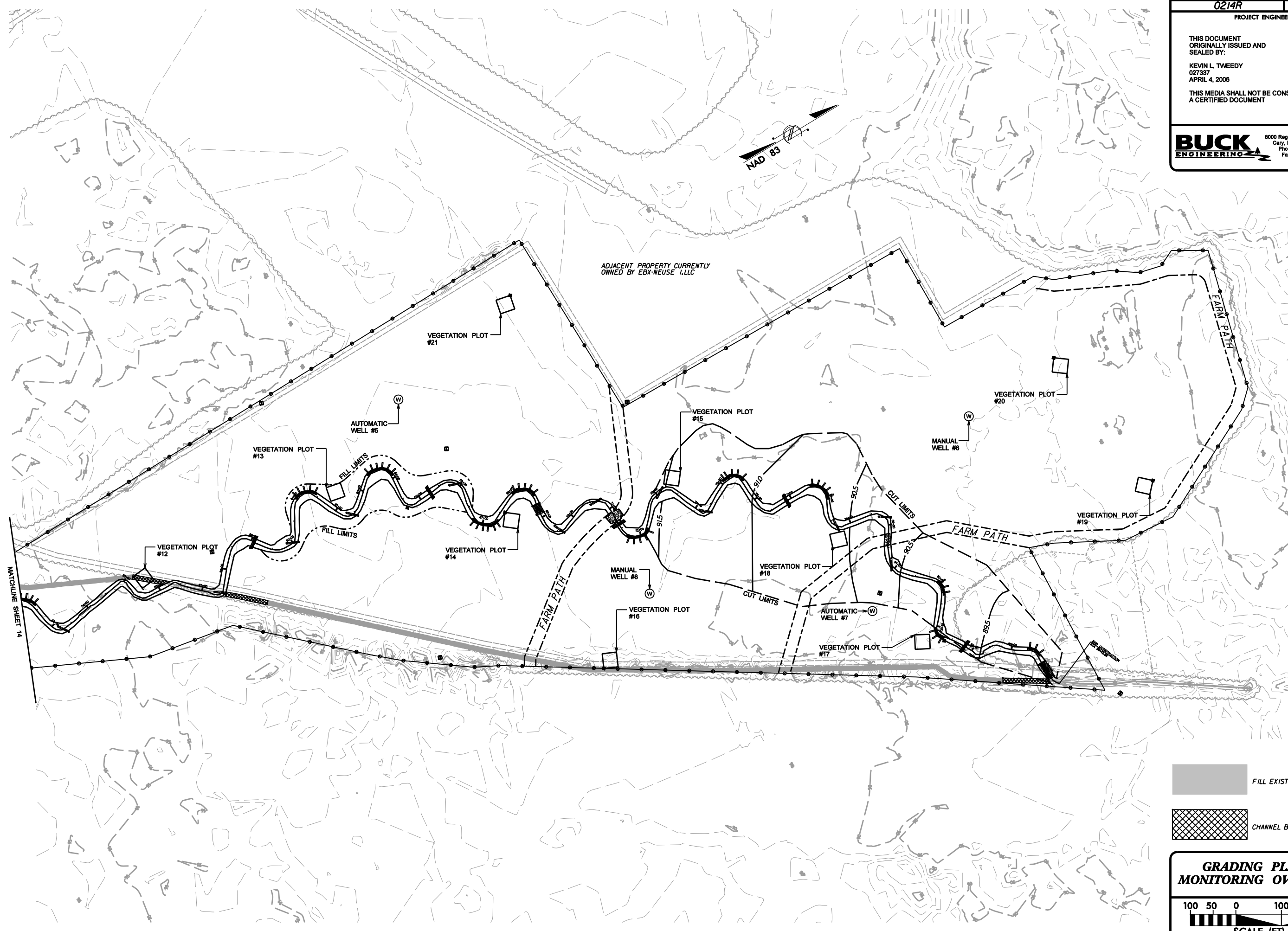
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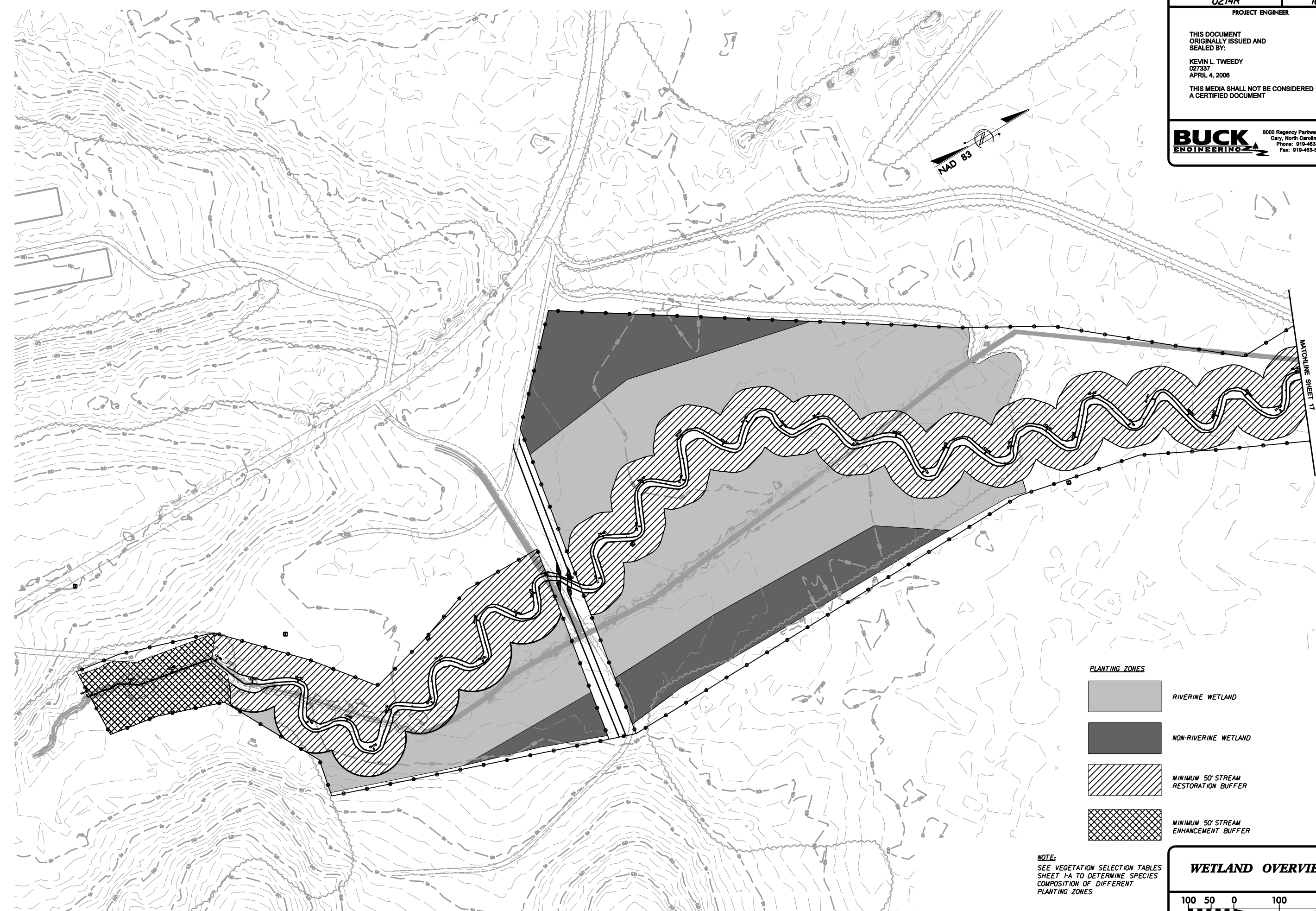
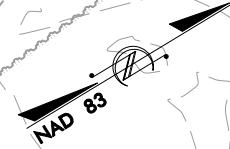
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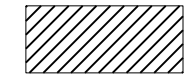

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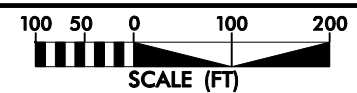


PLANTING ZONES

-  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

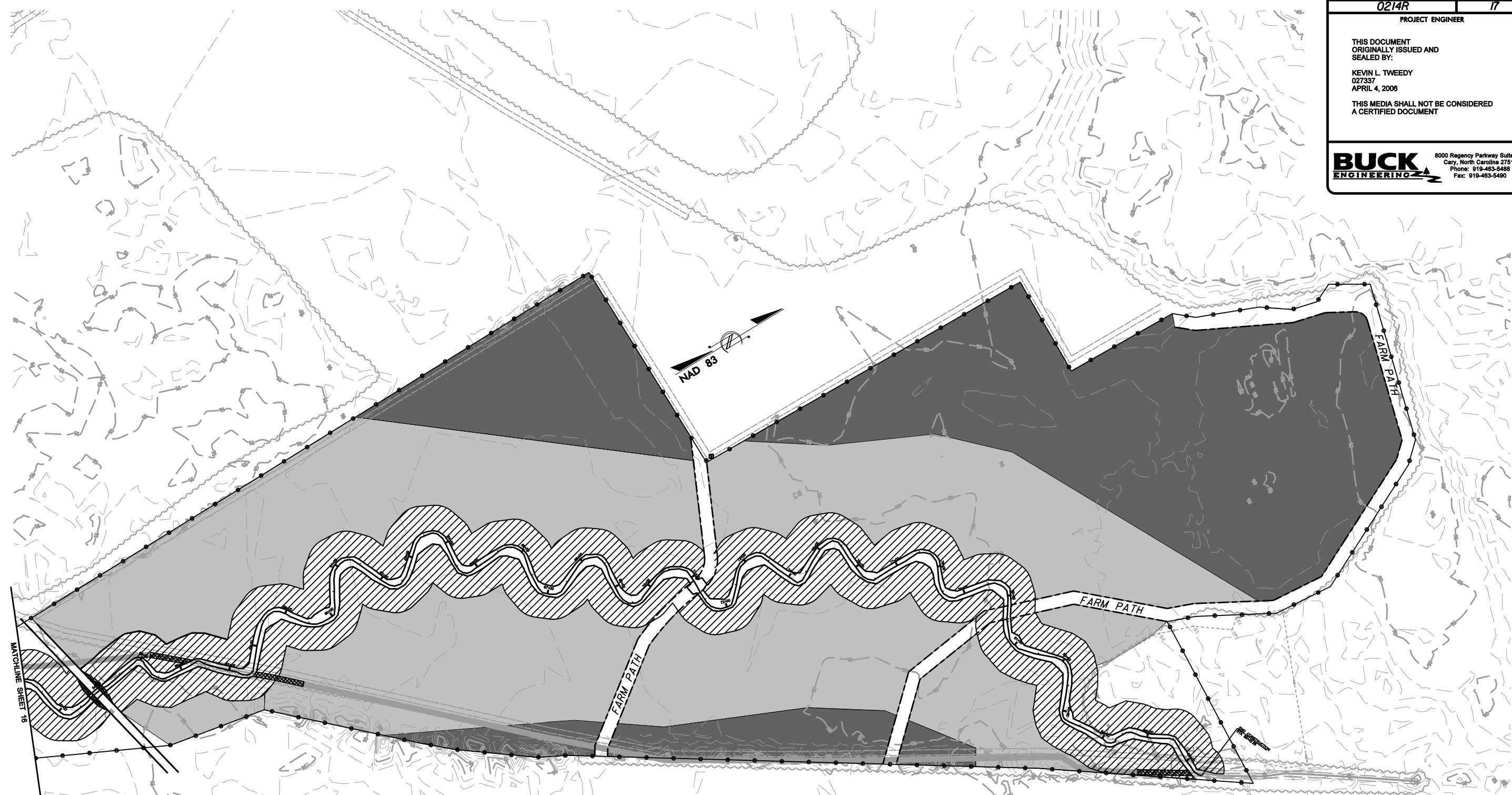


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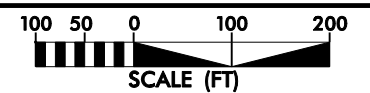


PLANTING ZONES

-  RIVERINE WETLAND
-  NON-RIVERINE WETLAND
-  MINIMUM 50' STREAM RESTORATION BUFFER
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NOTE:
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WETLAND OVERVIEW



2/26/03

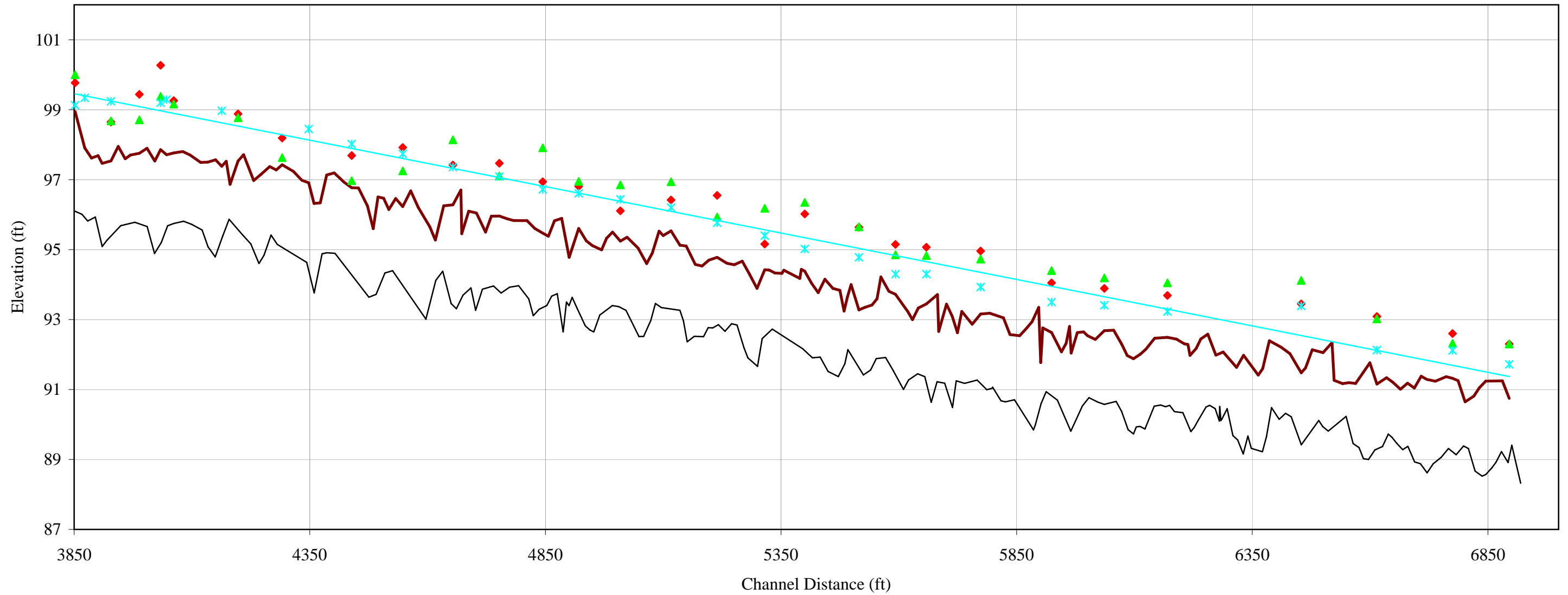
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APPENDIX B

2008 Profile and Cross Section Data

Cox
Station 38+52 - 68+92

— Year 1 (Offset -1ft) — Year 3 ◆ LTB ▲ RTB * Water Srf — Linear (Water Srf)

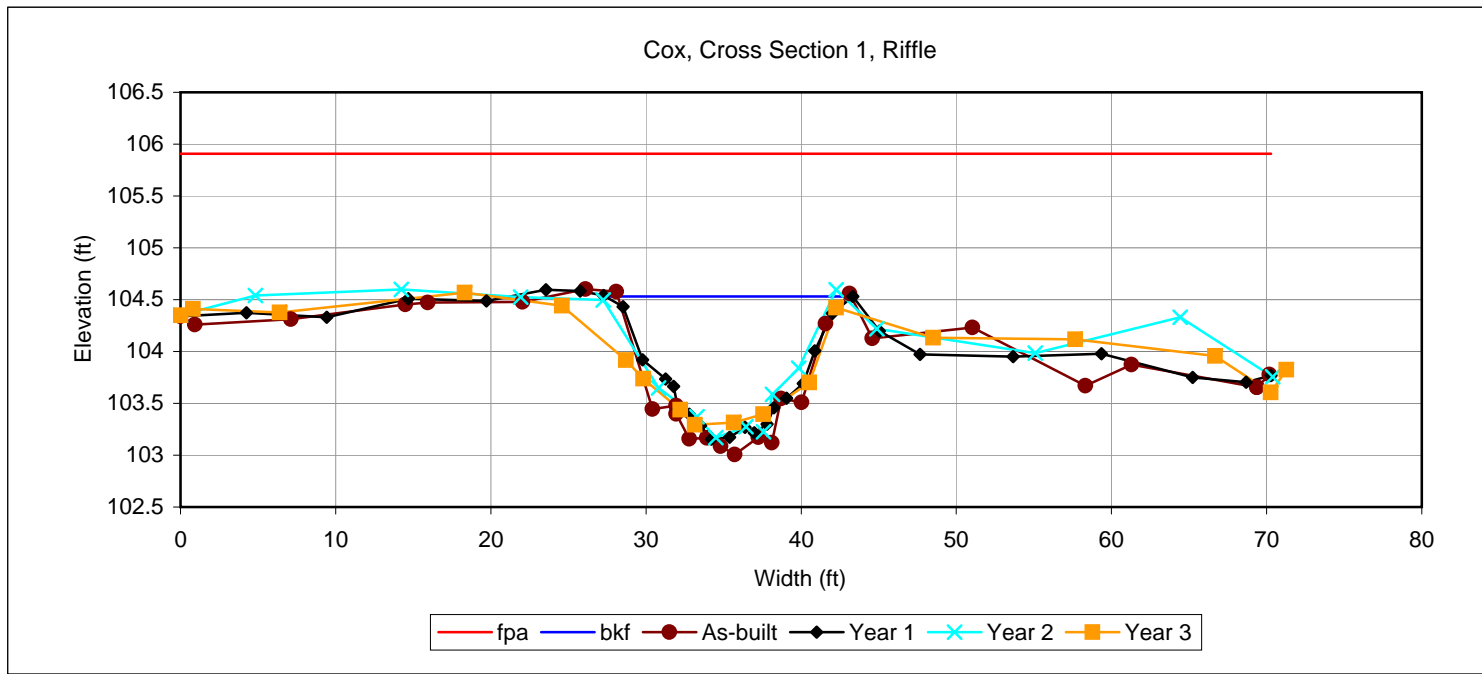




Looking at left bank.



Looking at right bank.

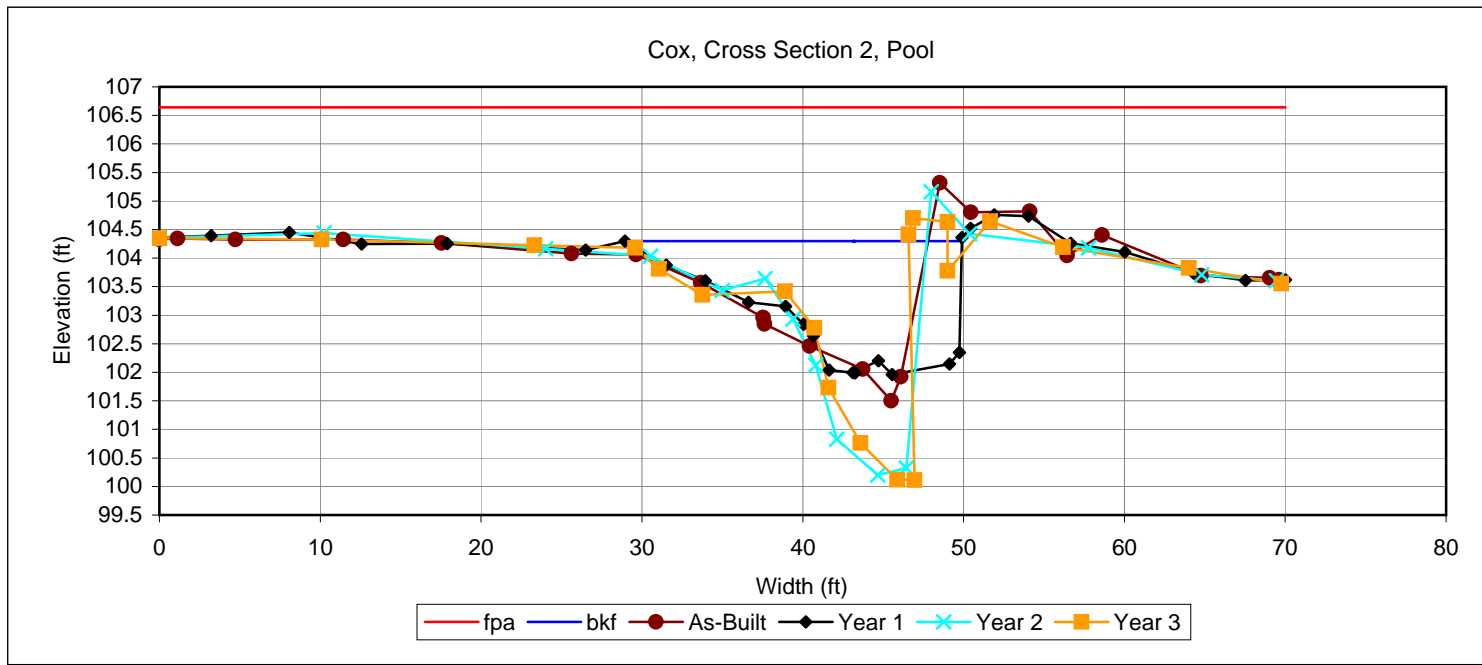




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Looking at right bank.

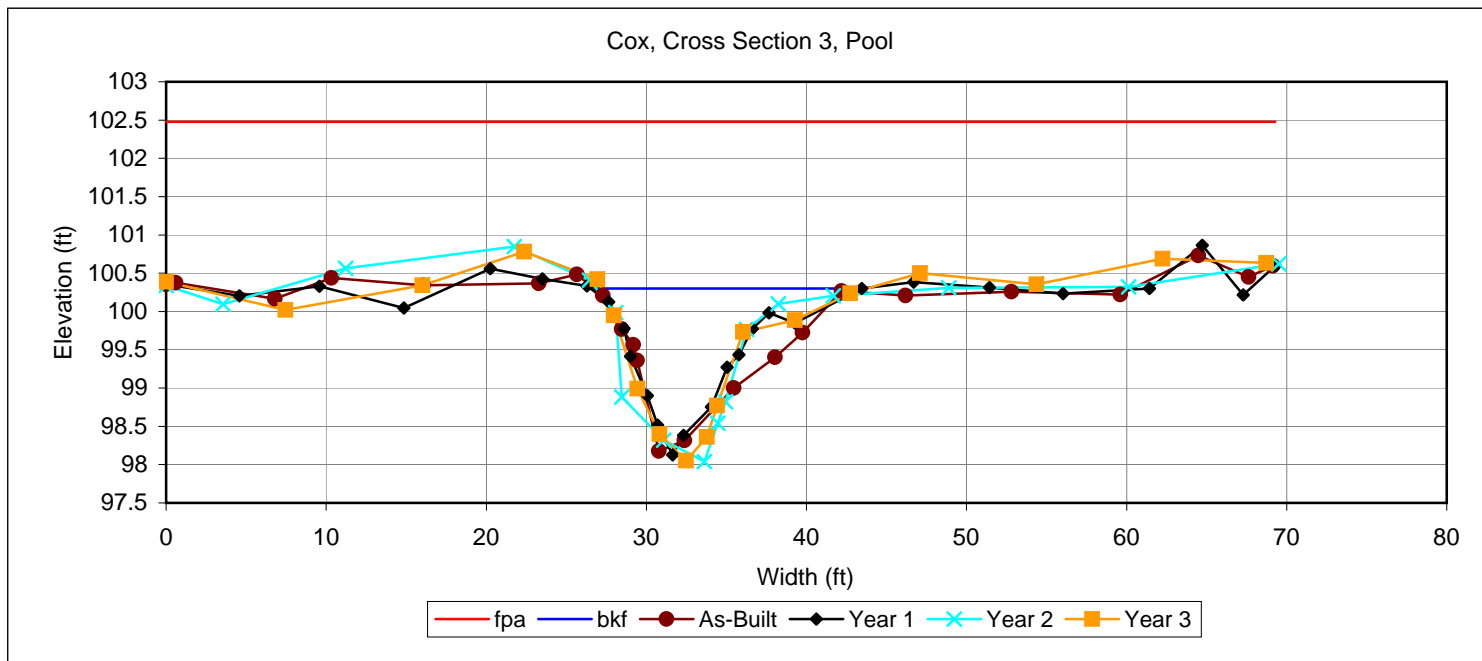




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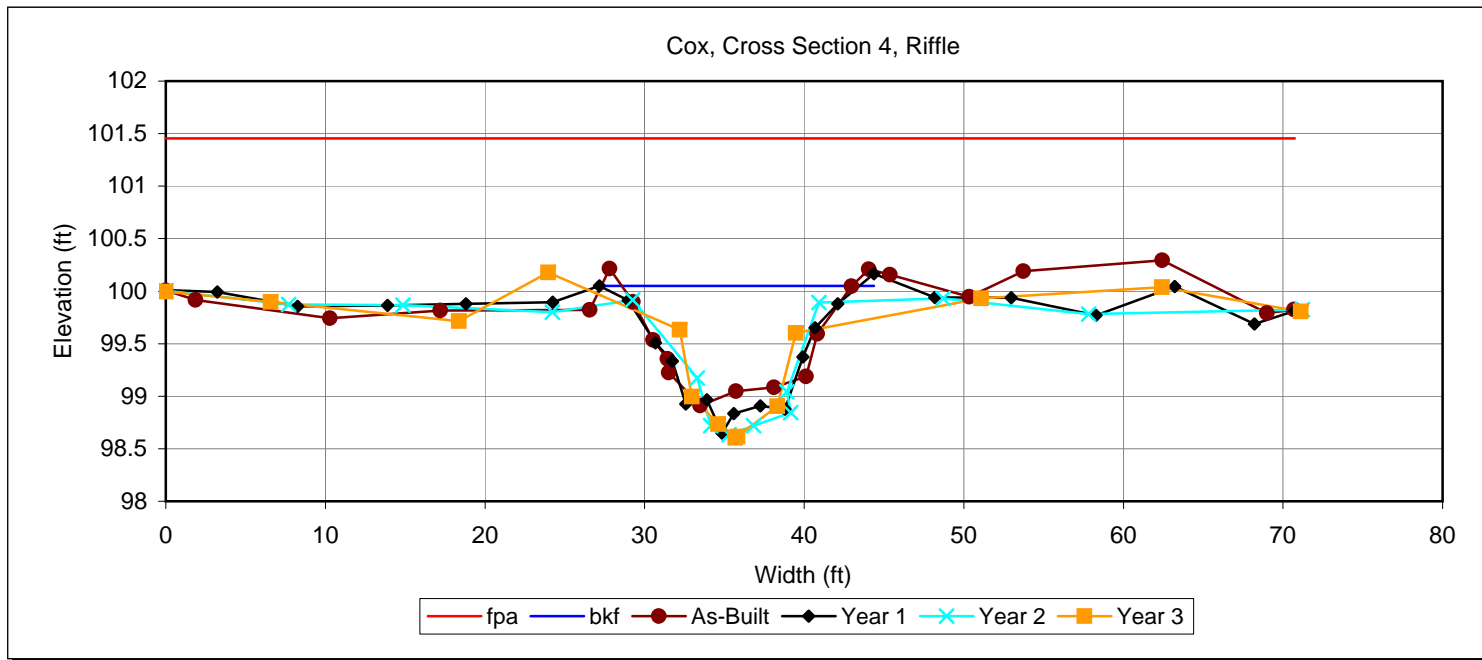




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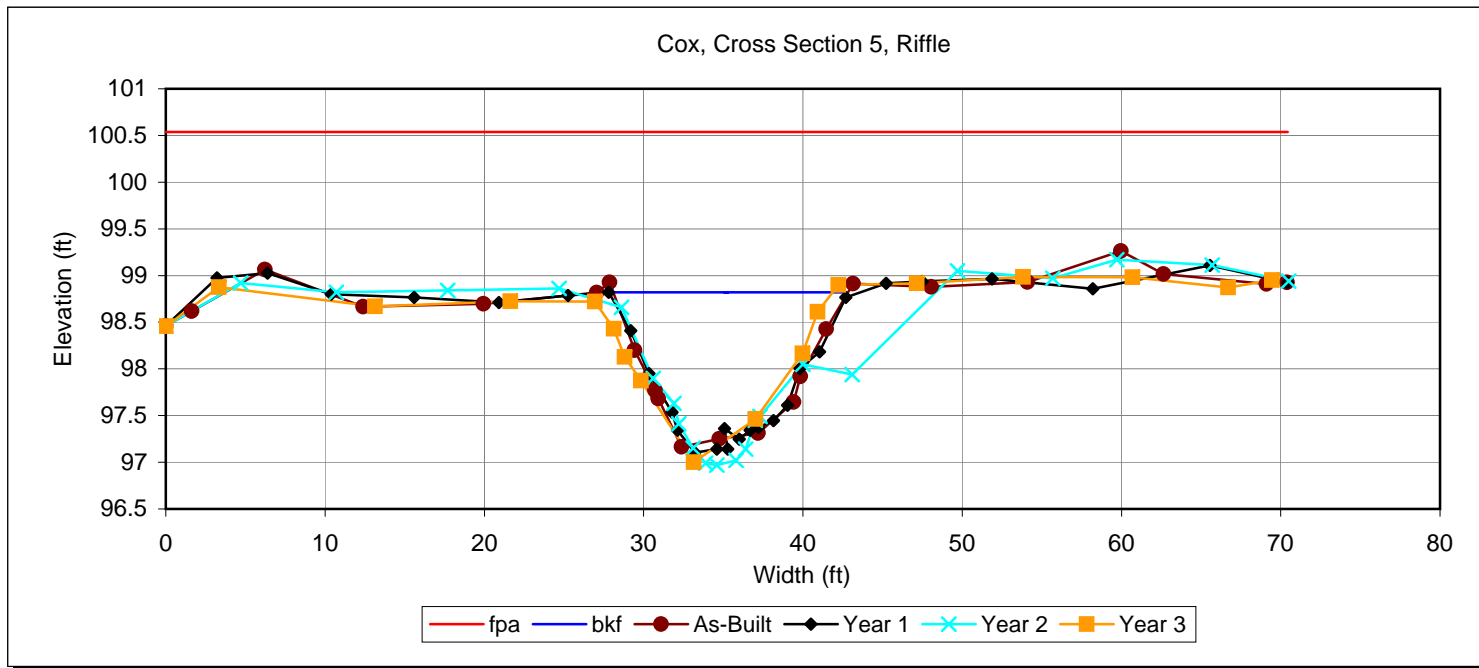




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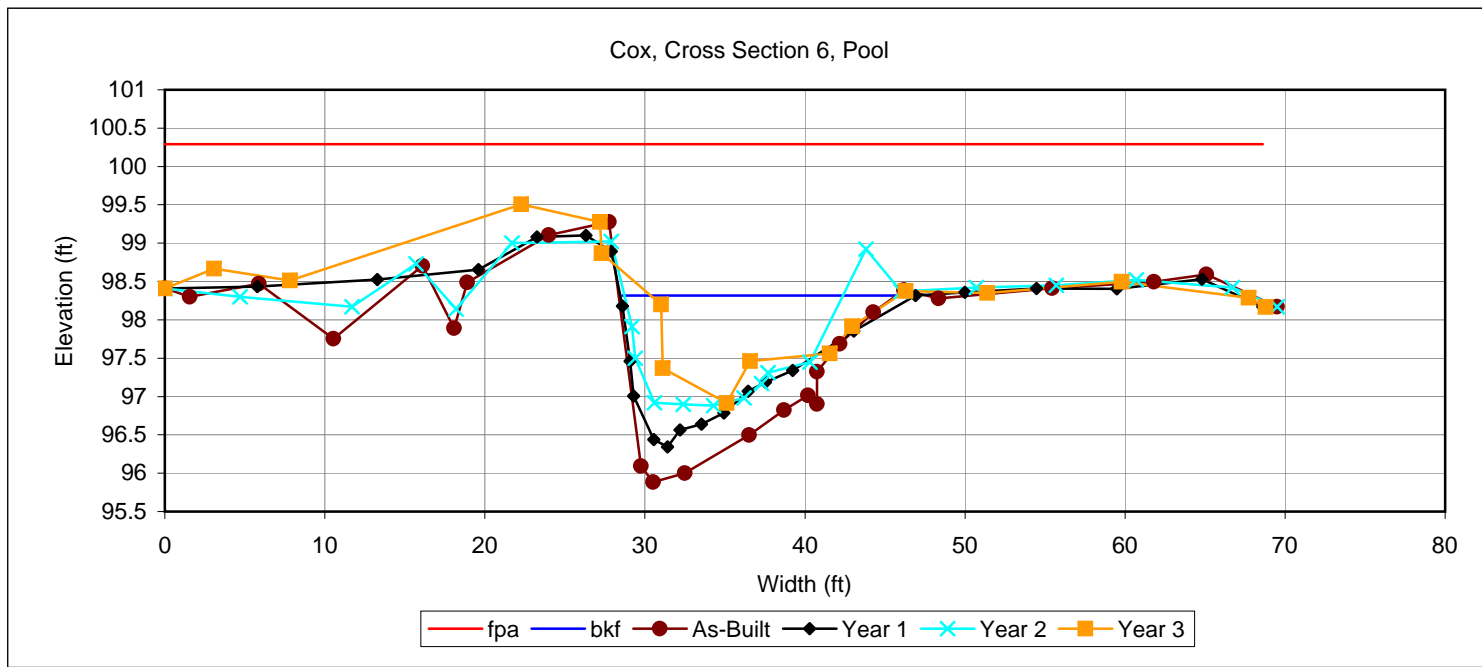




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Looking at left bank.



Looking at right bank.

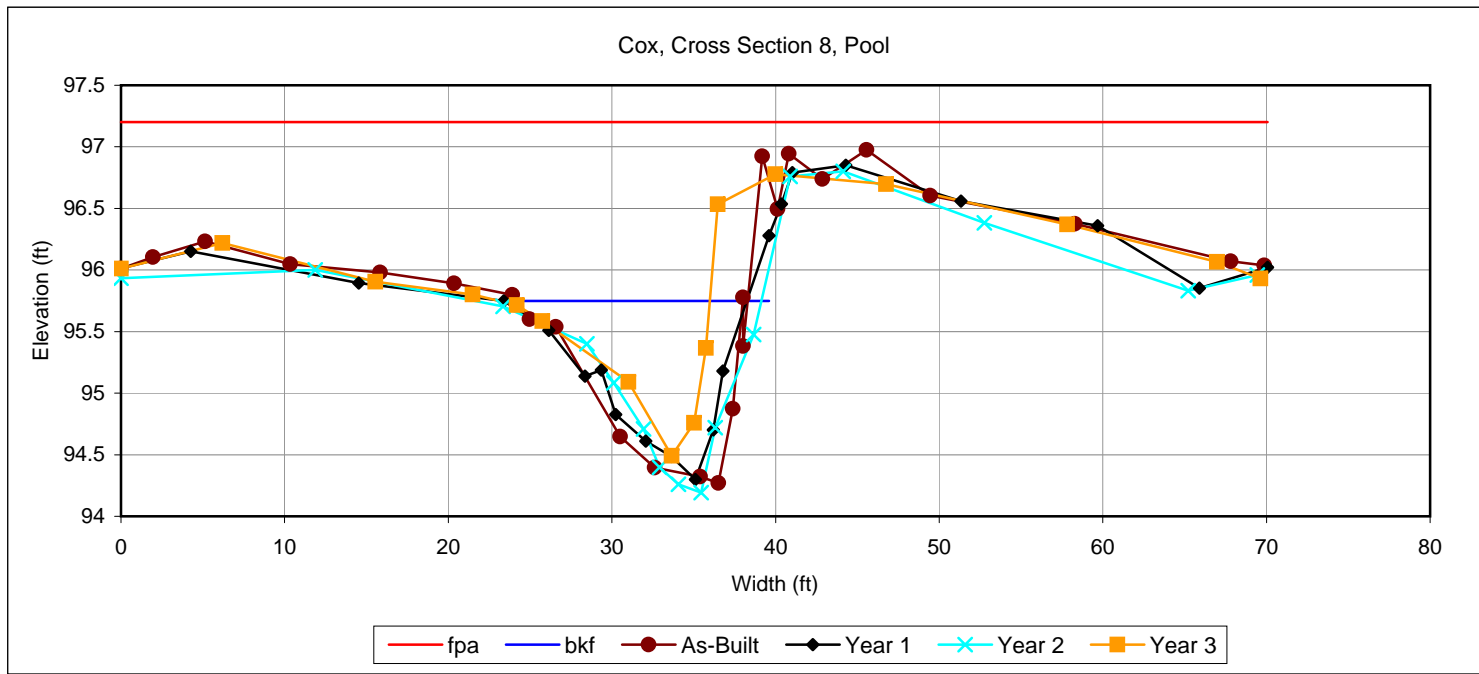




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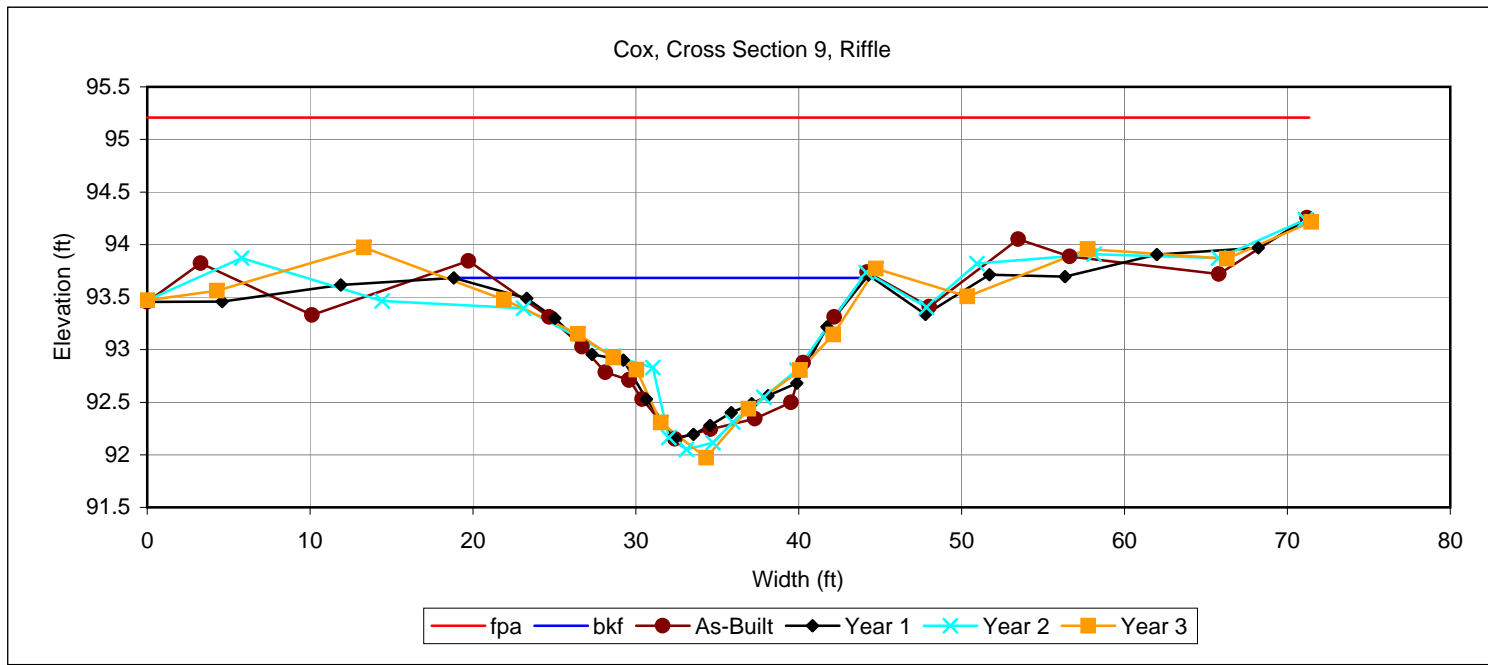




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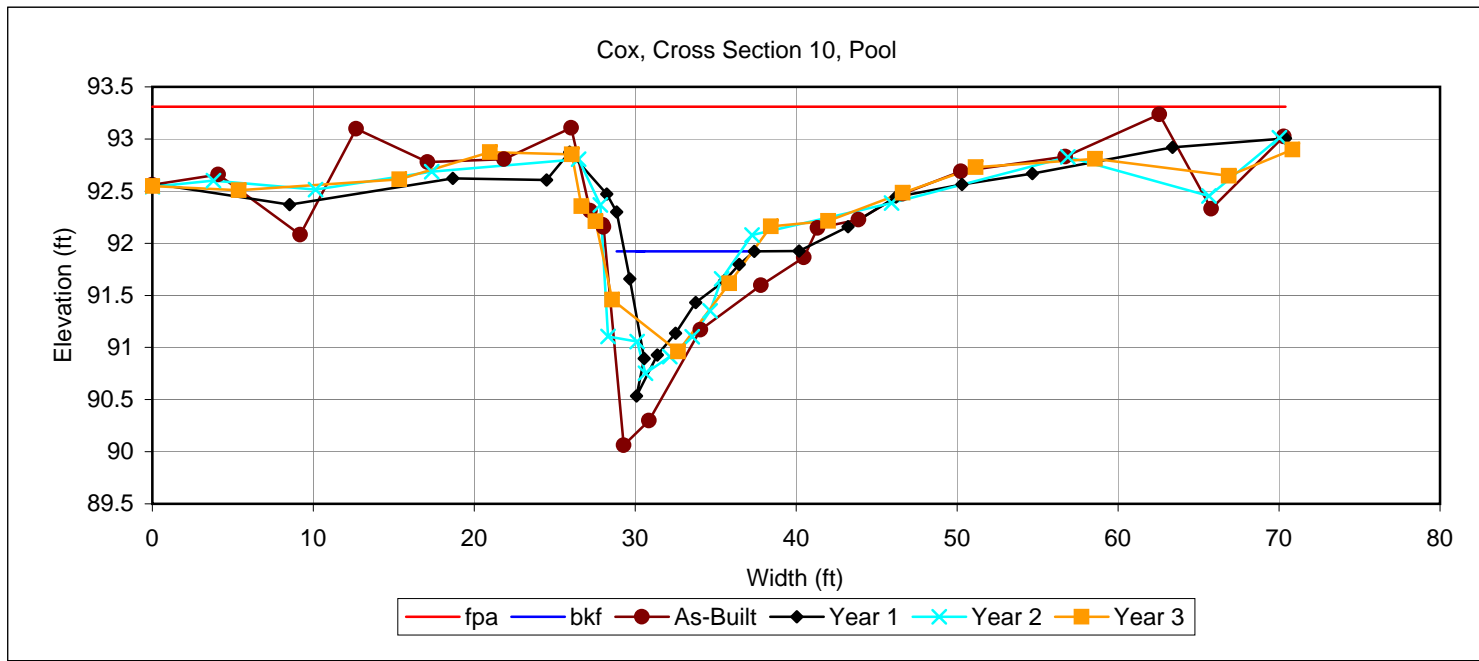




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Looking at right bank.

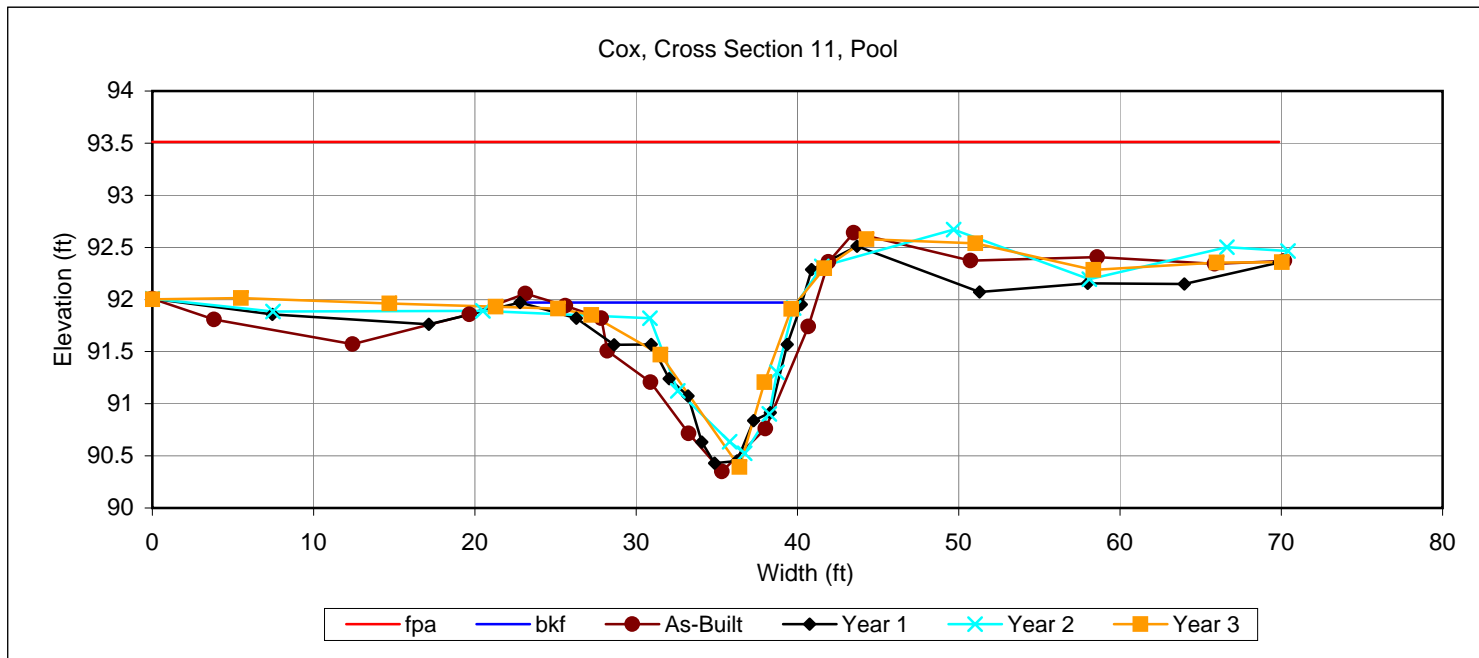




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Looking at right bank.

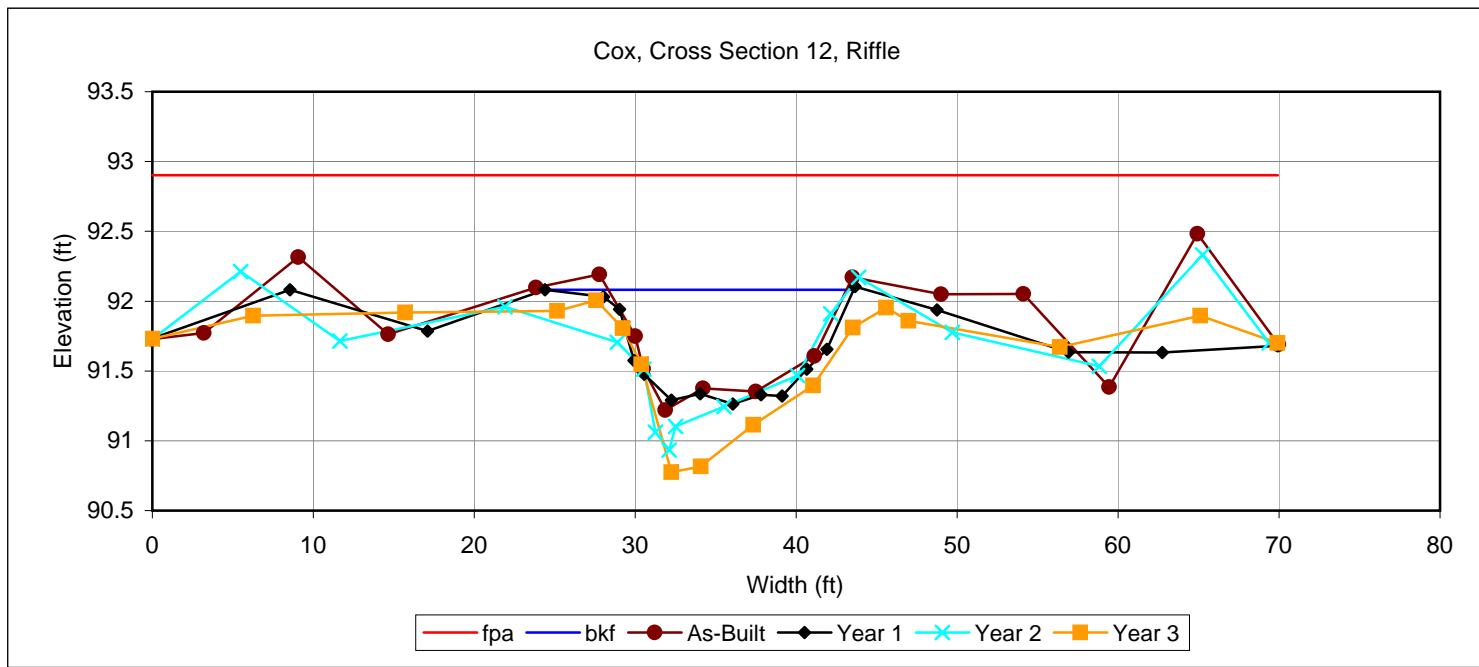




Looking at left bank.



Looking at right bank.





Looking at left bank.



Looking at right bank.

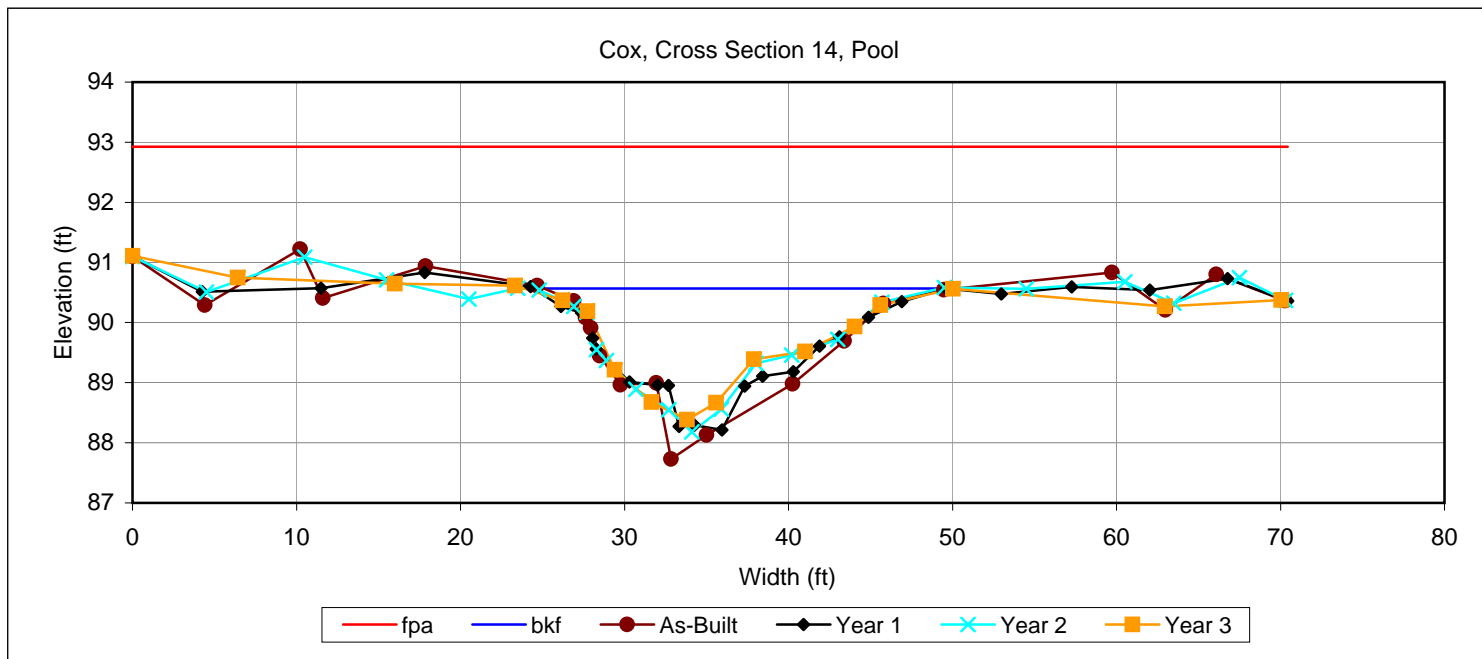




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Looking at right bank.

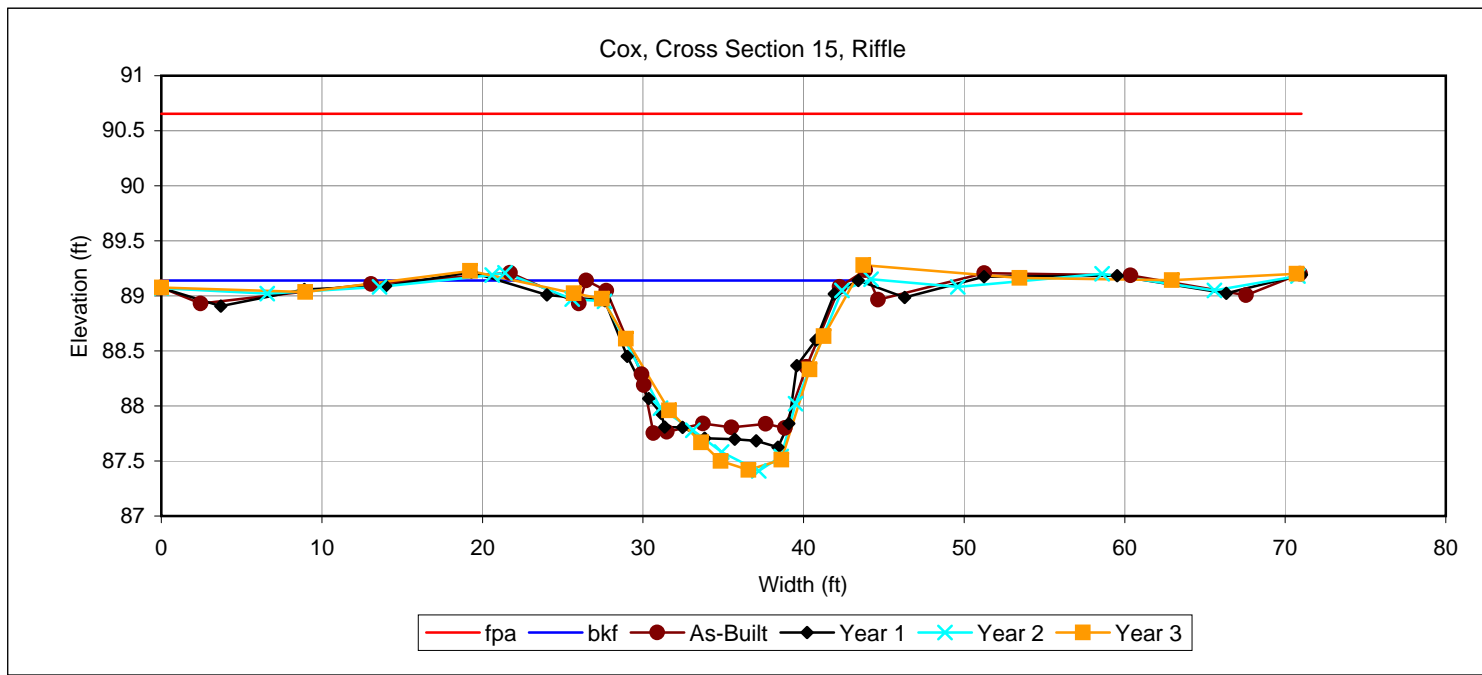




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Looking at right bank.

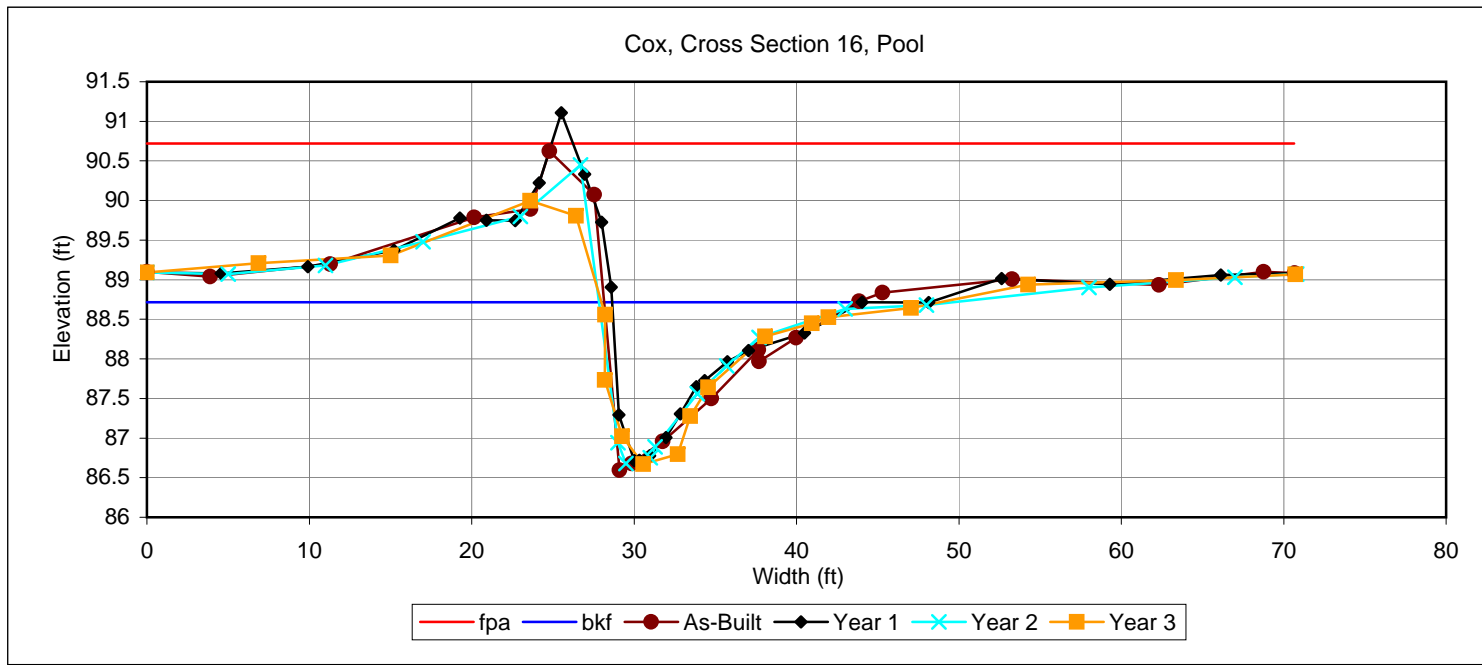




Looking at left bank.



Looking at right bank.



APPENDIX C

2008 Gauge Data

Date	Time	Water Level (inches)					
		Cox AW1	Cox MW2	Cox AW3	Cox AW4	Cox AW5	Cox AW6
01-Jan-2008	08:00:00	5.61		-15.96		-1.91	-37.60
01-Jan-2008	20:00:00	5.33		-17.91		-3.31	-36.86
02-Jan-2008	08:00:00	5.19		-19.76		-4.74	-33.93
02-Jan-2008	20:00:00	5.06		-21.77		-5.96	-34.96
03-Jan-2008	08:00:00	4.95		-23.72		-7.31	-30.92
03-Jan-2008	20:00:00	5.09		-24.33		-7.90	-29.91
04-Jan-2008	08:00:00	5.08		-24.78		-8.97	-6.99
04-Jan-2008	20:00:00	5.27		-24.59		-8.55	-36.20
05-Jan-2008	08:00:00	5.27		-24.76		-9.45	-34.74
05-Jan-2008	20:00:00	5.21		-24.71		-9.04	-37.66
06-Jan-2008	08:00:00	5.14		-25.00		-9.52	-37.65
06-Jan-2008	20:00:00	5.17		-25.08		-9.62	-38.36
07-Jan-2008	08:00:00	5.10		-25.53		-10.11	-38.67
07-Jan-2008	20:00:00	5.20		-25.53		-10.12	-37.91
08-Jan-2008	08:00:00	5.11		-25.71		-10.39	-38.20
08-Jan-2008	20:00:00	5.27		-25.22		-10.11	-38.30
09-Jan-2008	08:00:00	5.16		-24.90		-10.36	-38.64
09-Jan-2008	20:00:00	5.10		-25.39		-10.60	-38.24
10-Jan-2008	08:00:00	5.13		-25.93		-11.03	-38.52
10-Jan-2008	20:00:00	5.27		-25.27		-10.39	-38.11
11-Jan-2008	08:00:00	5.39		-24.43		-7.53	-38.86
11-Jan-2008	20:00:00	5.31		-24.05		-7.96	-38.45
12-Jan-2008	08:00:00	5.21		-24.74		-9.27	-38.27
12-Jan-2008	20:00:00	5.16		-25.34		-9.96	-37.95
13-Jan-2008	08:00:00	5.15		-25.41		-10.45	-37.48
13-Jan-2008	20:00:00	5.05		-25.41		-10.68	-37.86
14-Jan-2008	08:00:00	4.97		-25.71		-11.20	-37.13
14-Jan-2008	20:00:00	4.95		-26.14		-11.52	-36.76
15-Jan-2008	08:00:00	4.96		-26.47		-11.94	-35.51
15-Jan-2008	20:00:00	4.82		-26.98		-12.34	-35.34
16-Jan-2008	08:00:00	4.74		-27.77		-12.96	-34.81
16-Jan-2008	20:00:00	4.88		-28.00		-12.88	-35.90
17-Jan-2008	08:00:00	5.26		-27.20		-11.29	-35.58
17-Jan-2008	20:00:00	5.52		-22.85		-5.45	-35.77
18-Jan-2008	08:00:00	5.48		-22.75		-7.08	-35.36
18-Jan-2008	20:00:00	5.42		-22.97		-7.86	-36.25
19-Jan-2008	08:00:00	5.41		-23.11		-8.53	-35.98
19-Jan-2008	20:00:00	6.05		-13.12		-0.40	-35.53
20-Jan-2008	08:00:00	5.73		-11.55		-1.24	-33.62
20-Jan-2008	20:00:00	5.40		-14.84		-3.17	-28.98
21-Jan-2008	08:00:00	5.17		-17.26		-5.29	
21-Jan-2008	20:00:00	5.39		-18.22		-5.45	-56.94
22-Jan-2008	08:00:00	6.08		-18.22		-5.92	-58.24
22-Jan-2008	20:00:00	6.17		-17.59		-5.74	-61.19
23-Jan-2008	08:00:00	5.78		-18.20		-5.71	-59.74
23-Jan-2008	20:00:00	5.84		-18.53		-6.41	-64.55
24-Jan-2008	08:00:00	5.78		-18.61		-6.93	-65.65
24-Jan-2008	20:00:00	5.75		-19.55		-7.79	-63.85
25-Jan-2008	08:00:00	5.24		-21.29		-9.01	-61.12
25-Jan-2008	20:00:00	5.46		-21.43		-9.11	-63.91
26-Jan-2008	08:00:00	5.36		-21.20		-9.24	-67.02
26-Jan-2008	20:00:00	5.79		-20.46		-9.10	-66.60

Date	Time	Water Level (inches)					
		Cox AW1	Cox MW2	Cox AW3	Cox AW4	Cox AW5	Cox AW6
27-Jan-2008	08:00:00	5.29		-21.01		-9.81	-66.36
27-Jan-2008	20:00:00	5.41		-21.46		-10.01	-66.61
28-Jan-2008	08:00:00	5.15		-22.26		-10.77	-66.70
28-Jan-2008	20:00:00	5.37		-22.04		-10.51	-66.60
29-Jan-2008	08:00:00	5.43		-21.88		-10.46	-66.99
29-Jan-2008	20:00:00	5.44		-21.26		-10.24	-66.87
30-Jan-2008	08:00:00	5.27		-21.17		-7.89	-66.95
30-Jan-2008	20:00:00	5.07		-22.63		-9.79	-66.58
31-Jan-2008	08:00:00	4.71		-23.58		-11.05	-66.59
31-Jan-2008	20:00:00	2.07		-23.51		-10.51	-66.74
01-Feb-2008	08:00:00	3.58		-22.23		-9.57	-67.01
01-Feb-2008	20:00:00	4.93		-8.46		-0.50	-66.66
02-Feb-2008	08:00:00	4.50		-11.73		-2.13	-66.65
02-Feb-2008	20:00:00	4.50		-12.93		-2.78	-66.60
03-Feb-2008	08:00:00	4.31		-14.31		-4.00	-66.86
03-Feb-2008	20:00:00	4.25		-15.12		-4.73	-66.57
04-Feb-2008	08:00:00	4.28		-16.02		-5.60	-66.73
04-Feb-2008	20:00:00	4.29		-16.48		-6.07	-66.63
05-Feb-2008	08:00:00	4.38		-16.92		-6.63	-66.93
05-Feb-2008	20:00:00	4.47		-16.65		-6.84	-66.63
06-Feb-2008	08:00:00	4.52		-16.94		-7.20	-66.96
06-Feb-2008	20:00:00	4.74		-16.42		-7.03	-66.72
07-Feb-2008	08:00:00	4.34		-17.34		-7.96	-66.73
07-Feb-2008	20:00:00	4.26		-18.09		-8.55	-66.64
08-Feb-2008	08:00:00	4.11		-18.55		-9.26	-66.81
08-Feb-2008	20:00:00	2.56		-19.39		-9.61	-66.61
09-Feb-2008	08:00:00	3.58		-19.79		-10.00	-66.94
09-Feb-2008	20:00:00	3.68		-19.58		-10.07	-66.66
10-Feb-2008	08:00:00	3.45		-20.62		-10.83	-66.94
10-Feb-2008	20:00:00	3.43		-20.62		-11.02	-66.66
11-Feb-2008	08:00:00	3.39		-22.20		-12.05	-66.57
11-Feb-2008	20:00:00	3.58		-22.41		-11.97	-66.51
12-Feb-2008	08:00:00	3.64		-22.38		-12.07	-66.91
12-Feb-2008	20:00:00	4.06		-21.43		-11.02	-66.72
13-Feb-2008	08:00:00	5.21		-16.46		-0.18	-67.04
13-Feb-2008	20:00:00	5.47		-6.51		1.18	-66.76
14-Feb-2008	08:00:00	4.68		-7.23		0.22	-66.61
14-Feb-2008	20:00:00	4.52		-9.62		-1.15	-66.59
15-Feb-2008	08:00:00	4.38		-11.50		-2.42	-66.92
15-Feb-2008	20:00:00	4.40		-12.23		-3.25	-66.63
16-Feb-2008	08:00:00	4.15		-13.30		-4.28	-66.86
16-Feb-2008	20:00:00	4.12		-14.19		-5.13	-66.61
17-Feb-2008	08:00:00	4.20		-14.84		-5.77	-66.99
17-Feb-2008	20:00:00	3.59		-13.94		-5.67	-66.88
18-Feb-2008	08:00:00	5.75		0.33		4.56	-66.94
18-Feb-2008	20:00:00	5.12		-0.04		4.36	-15.22
19-Feb-2008	08:00:00	4.51		-2.63		2.09	-16.10
19-Feb-2008	20:00:00	4.03		-5.39		1.23	-18.40
20-Feb-08	08:00:00	3.78		-7.80		0.81	-26.97
20-Feb-08	20:00:00	3.68		-7.83		0.28	-31.59
21-Feb-08	08:00:00	3.19		-10.55		-0.88	-36.54
21-Feb-08	20:00:00	1.73		-11.07		-1.64	-40.56

Date	Time	Water Level (inches)					
		Cox AW1	Cox MW2	Cox AW3	Cox AW4	Cox AW5	Cox AW6
22-Feb-08	08:00:00	2.48		-0.38		1.69	-43.73
22-Feb-08	20:00:00	2.49		0.72		3.84	-38.81
23-Feb-08	08:00:00	2.07		-0.16		2.11	-38.99
23-Feb-08	20:00:00	1.67		-1.33		1.28	-39.54
24-Feb-08	08:00:00	1.48		-4.09		0.88	-41.73
24-Feb-08	20:00:00	1.68		-4.95		0.50	-43.00
25-Feb-08	08:00:00	1.33		-6.39		-0.24	-43.83
25-Feb-08	20:00:00	1.28		-6.63		-1.00	-44.60
26-Feb-08	08:00:00	1.51		-7.42		-1.54	-45.98
26-Feb-08	20:00:00	2.12		0.46		1.19	-45.42
27-Feb-08	08:00:00	1.63		-1.37		0.60	-42.93
27-Feb-08	20:00:00	1.12		-4.55		-0.71	-41.28
28-Feb-08	08:00:00	0.73		-8.11		-2.31	-41.43
28-Feb-08	20:00:00	0.65		-9.34		-3.19	-59.48
29-Feb-08		0.46		-11.16		-4.10	-60.16
29-Feb-08		0.95		-10.14		-4.33	-60.17
1-Mar-08	08:00:00	1.04		-10.31		-4.61	-60.41
1-Mar-08	20:00:00	0.79		-10.32		-5.14	-61.29
2-Mar-08	08:00:00	0.45		-12.28		-6.03	-61.33
2-Mar-08	20:00:00	0.56		-12.23		-6.34	-60.31
3-Mar-08	08:00:00	0.55	1.00	-13.14	-9.00	-6.78	-60.16
3-Mar-08	20:00:00	0.97		-12.40	-8.80	-6.66	-62.96
4-Mar-08	08:00:00	1.12		-12.38	-9.00	-6.70	-62.35
4-Mar-08	20:00:00	2.34		-6.04	-8.28	0.00	-62.51
5-Mar-08	08:00:00	1.97		0.44	15.34	5.46	-62.68
5-Mar-08	20:00:00	1.77		-0.98	14.24	3.96	-62.49
6-Mar-08	08:00:00	1.56		-3.22	12.21	2.27	-63.19
6-Mar-08	20:00:00	1.67		-4.78	10.59	1.20	-63.22
7-Mar-08	08:00:00	1.91		-5.52	5.65	0.85	-63.17
7-Mar-08	20:00:00	2.91		1.90	15.08	4.99	-62.84
8-Mar-08	08:00:00	3.14		2.33	15.44	4.84	-63.03
8-Mar-08	20:00:00	1.78		-0.68	14.38	3.78	-62.50
9-Mar-08	08:00:00	1.56		-2.51	12.93	2.00	-60.93
9-Mar-08	20:00:00	1.58		-4.43	11.21	1.20	-59.79
10-Mar-08	08:00:00	1.46		-6.23	9.59	0.83	-59.79
10-Mar-08	20:00:00	1.80		-5.99	5.49	0.39	-60.52
11-Mar-08	08:00:00	1.77		-6.81	0.27	-0.18	-60.19
11-Mar-08	20:00:00	1.91		-6.30	-1.18	-0.72	-4.53
12-Mar-08	08:00:00	1.59		-7.53	-2.96	-1.41	-5.67
12-Mar-08	20:00:00	1.45		-8.30	-4.20	-2.40	-2.06
13-Mar-08	08:00:00	1.30		-9.66	-5.58	-3.17	-4.07
13-Mar-08	20:00:00	1.36		-9.37	-5.88	-3.74	-5.55
14-Mar-08	08:00:00	1.44		-9.91	-6.50	-4.22	-6.98
14-Mar-08	20:00:00	1.50		-9.18	-6.60	-4.65	-5.47
15-Mar-08	08:00:00	1.08		-10.82	-8.02	-5.35	-7.40
15-Mar-08	20:00:00	3.24		1.32	8.71	2.98	0.51
16-Mar-08	08:00:00	1.85		0.04	13.78	4.70	0.23
16-Mar-08	20:00:00	1.72		-1.43	12.32	2.35	-0.77
17-Mar-08	08:00:00	1.44		-4.10	10.58	1.25	-3.25
17-Mar-08	20:00:00	1.55		-5.43	8.91	0.81	-4.13
18-Mar-08	08:00:00	1.53		-6.41	5.55	0.25	-5.96
18-Mar-08	20:00:00	1.89		-5.49	0.53	-0.23	-5.76

Date	Time	Water Level (inches)					
		Cox AW1	Cox MW2	Cox AW3	Cox AW4	Cox AW5	Cox AW6
19-Mar-08	08:00:00	1.82		-5.56	-2.12	-0.71	-6.88
19-Mar-08	20:00:00	1.87		-5.48	-3.06	-1.29	-6.69
20-Mar-08	08:00:00	1.08		-7.67	-5.26	-2.12	-7.26
20-Mar-08	20:00:00	0.76		-9.70	-7.21	-3.68	-8.76
21-Mar-08	08:00:00	0.70		-11.17	-8.55	-4.62	-10.59
21-Mar-08	20:00:00	1.05		-10.29	-8.61	-5.18	-10.37
22-Mar-08	08:00:00	1.20		-10.49	-9.12	-5.43	-11.30
22-Mar-08	20:00:00	0.87		-10.55	-9.57	-6.06	-11.08
23-Mar-08	08:00:00	0.51		-12.60	-11.06	-6.91	-12.21
23-Mar-08	20:00:00	0.50		-12.62	-11.40	-7.42	-12.27
24-Mar-08	08:00:00	0.40		-13.36	-12.08	-7.80	-13.11
24-Mar-08	20:00:00	0.23		-13.52	-12.55	-8.25	-12.83
25-Mar-08	08:00:00	0.07		-14.64	-13.57	-8.74	-14.03
25-Mar-08	20:00:00	0.37		-14.02	-13.50	-8.93	-13.28
26-Mar-08	08:00:00	0.44	1.00	-14.63	-13.80	-8.80	-14.12
26-Mar-08	20:00:00	0.45		-13.87	-13.91	-9.12	-13.68
27-Mar-08	08:00:00	0.53		-14.46	-14.43	-9.12	-14.40
27-Mar-08	20:00:00	0.45		-13.93	-13.87	-9.49	-13.92
28-Mar-08	08:00:00	0.45		-14.73	-14.66	-9.52	-14.55
28-Mar-08	20:00:00	0.16		-14.72	-14.64	-10.06	-14.41
29-Mar-08	08:00:00	-0.34		-16.16	-16.05	-10.62	-15.02
29-Mar-08	20:00:00	-0.29		-16.65	-16.31	-10.81	-15.09
30-Mar-08	08:00:00	-0.16		-17.05	-16.62	-10.57	-15.03
30-Mar-08	20:00:00	0.93		-16.27	-14.79	-5.26	-12.09
31-Mar-08	08:00:00	1.16		-13.38	-11.32	-4.24	-10.72
31-Mar-08	20:00:00	1.59		-8.28	-5.01	-1.99	-8.13
1-Apr-08	08:00:00	1.40		-7.57	-5.69	-2.40	-8.78
1-Apr-08	20:00:00	1.76		-7.65	-6.08	3.61	-9.15
2-Apr-08	08:00:00	1.02		-9.84	-7.81	1.95	-10.15
2-Apr-08	20:00:00	0.57		-11.20	-9.72	-0.54	-10.90
3-Apr-08	08:00:00	0.55		-12.52	-10.75	-3.25	-11.44
3-Apr-08	20:00:00	1.08		-11.77	-8.82	-2.67	-10.42
4-Apr-08	08:00:00	1.12		-10.11	-7.14	-3.53	-9.52
4-Apr-08	20:00:00	1.22		-9.73	-7.92	-4.40	-9.61
5-Apr-08	08:00:00	1.95		1.52	1.34	2.73	-0.44
5-Apr-08	20:00:00	4.43		2.24	1.61	7.56	6.21
6-Apr-08	08:00:00	2.07		1.15	1.04	5.28	3.81
6-Apr-08	20:00:00	1.74		0.30	0.43	3.46	3.00
7-Apr-08	08:00:00	1.57		-0.33	-0.07	2.04	2.57
7-Apr-08	20:00:00	1.57		-1.40	-0.50	1.47	2.27
8-Apr-08	08:00:00	1.50		-2.54	-0.95	1.25	1.77
8-Apr-08	20:00:00	1.44		-4.28	-1.87	0.97	1.57
9-Apr-08	08:00:00	1.45		-5.05	-2.56	0.81	0.93
9-Apr-08	20:00:00	1.46		-5.93	-3.55	0.41	0.52
10-Apr-08	08:00:00	1.57		-6.54	-4.30	-0.02	-0.41
10-Apr-08	20:00:00	1.52		-6.99	-5.39	-0.71	-1.24
11-Apr-08	08:00:00	1.48		-7.49	-5.84	-1.06	-2.65
11-Apr-08	20:00:00	1.41		-7.68	-7.14	-1.96	-4.12
12-Apr-08	08:00:00	1.45		-8.21	-7.55	-2.35	-5.30
12-Apr-08	20:00:00	2.05		-0.24	0.76	1.39	-0.63
13-Apr-08	08:00:00	1.65		-1.68	-0.31	0.86	-2.94
13-Apr-08	20:00:00	1.15		-5.34	-2.76	-0.32	-4.66

Date	Time	Water Level (inches)					
		Cox AW1	Cox MW2	Cox AW3	Cox AW4	Cox AW5	Cox AW6
14-Apr-08	08:00:00	1.13		-7.11	-4.85	-1.51	-6.30
14-Apr-08	20:00:00	0.94		-8.30	-6.51	-2.61	-7.00
15-Apr-08	08:00:00	0.80		-9.50	-8.24	-3.37	-8.08
15-Apr-08	20:00:00	0.48		-10.39	-10.29	-4.71	-8.80
16-Apr-08	08:00:00	0.37		-11.76	-11.65	-5.31	-9.85
16-Apr-08	20:00:00	0.49		-11.59	-11.92	-6.18	-10.15
17-Apr-08	08:00:00	0.55		-12.28	-12.44	-6.44	-10.84
17-Apr-08	20:00:00	0.51		-12.12	-12.67	-7.33	-11.15
18-Apr-08	08:00:00	0.35		-12.99	-13.36	-7.53	-11.64
18-Apr-08	20:00:00	0.05		-13.01	-13.54	-8.54	-12.23
19-Apr-08	08:00:00	0.01		-13.63	-14.01	-8.57	-12.60
19-Apr-08	20:00:00	-0.16		-13.55	-14.03	-9.45	-13.18
20-Apr-08	08:00:00	0.49		-13.74	-12.91	-5.70	-11.03
20-Apr-08	20:00:00	0.21		-13.58	-13.55	-7.91	-12.17
21-Apr-08	08:00:00	0.03		-14.19	-14.39	-8.56	-12.87
21-Apr-08	20:00:00	0.00		-14.55	-14.72	-9.23	-13.11
22-Apr-08	08:00:00	0.32	-1.00	-14.58	-14.37	-8.26	-12.49
22-Apr-08	20:00:00	-0.02		-14.96	-14.93	-9.63	-12.88
23-Apr-08	08:00:00	0.01		-15.55	-15.47	-9.76	-13.06
23-Apr-08	20:00:00	-0.21		-15.89	-15.80	-10.65	-13.62
24-Apr-08	08:00:00	-0.32		-16.66	-16.52	-10.76	-13.96
24-Apr-08	20:00:00	-0.43		-16.67	-16.35	-11.64	-14.20
25-Apr-08	08:00:00	-0.49		-17.31	-17.01	-11.56	-14.40
25-Apr-08	20:00:00	-0.81		-17.36	-16.83	-12.55	-14.71
26-Apr-08	08:00:00	-0.77		-17.94	-17.44	-12.31	-14.79
26-Apr-08	20:00:00	-1.62		-18.20	-17.53	-13.60	-15.60
27-Apr-08	08:00:00	-1.39		-18.84	-18.10	-13.26	-15.53
27-Apr-08	20:00:00	1.09		-12.75	-10.97	-1.46	-11.28
28-Apr-08	08:00:00	1.98		-1.83	-0.33	5.38	-3.90
28-Apr-08	20:00:00	1.96		0.34	0.66	3.50	-0.96
29-Apr-08	08:00:00	1.43		-0.46	0.18	2.03	0.66
29-Apr-08	20:00:00	1.02		-4.50	-2.80	0.99	-0.83
30-Apr-08	08:00:00	0.76		-7.65	-5.83	0.38	-3.27
30-Apr-08	20:00:00	0.67		-9.42	-8.93	-1.19	-5.02
1-May-08	08:00:00	0.50		-11.38	-10.74	-2.30	-6.32
1-May-08	20:00:00	0.49		-12.06	-11.78	-4.09	-7.51
2-May-08	08:00:00	0.43		-13.41	-12.77	-4.95	-8.34
2-May-08	20:00:00	0.09		-13.96	-13.48	-6.77	-9.56
3-May-08	08:00:00	0.29		-14.92	-14.16	-7.30	-10.28
3-May-08	20:00:00	-0.09		-15.26	-14.50	-8.97	-11.27
4-May-08	08:00:00	0.14		-16.26	-15.23	-9.16	-11.78
4-May-08	20:00:00	-0.33		-16.85	-15.66	-10.55	-12.76
5-May-08	08:00:00	-0.06		-17.67	-16.30	-10.38	-12.68
5-May-08	20:00:00	-0.53		-18.19	-16.69	-11.68	-13.62
6-May-08	08:00:00	-0.53		-18.93	-17.41	-11.82	-14.39
6-May-08	20:00:00	-0.95		-19.42	-17.83	-13.05	-14.82
7-May-08	08:00:00	-0.93		-20.03	-18.51	-13.07	-15.46
7-May-08	20:00:00	-2.17		-20.28	-18.61	-14.54	-16.16
8-May-08	08:00:00	-1.69		-20.78	-19.11	-14.20	-16.54
8-May-08	20:00:00	-0.86		-20.68	-19.07	-14.17	-16.19
9-May-08	08:00:00	0.54		-20.42	-19.16	-9.80	-13.73
9-May-08	20:00:00	-0.37		-21.00	-19.58	-13.18	-15.31

Date	Time	Water Level (inches)					
		Cox AW1	Cox MW2	Cox AW3	Cox AW4	Cox AW5	Cox AW6
10-May-08	08:00:00	-0.41		-21.55	-20.09	-13.41	-16.40
10-May-08	20:00:00	-2.96		-22.65	-20.88	-15.68	-17.18
11-May-08	08:00:00	-2.61		-22.83	-21.02	-15.25	-17.94
11-May-08	20:00:00	0.80		-20.62	-19.94	-10.61	-13.40
12-May-08	08:00:00	0.37		-21.39	-20.93	-11.07	-14.85
12-May-08	20:00:00	-0.53		-22.99	-21.94	-12.94	-15.43
13-May-08	08:00:00	-1.06		-23.88	-22.56	-13.63	-16.98
13-May-08	20:00:00	-3.16		-24.28	-22.71	-15.56	-17.00
14-May-08	08:00:00	-3.88		-24.76	-23.04	-15.59	-18.35
14-May-08	20:00:00	-5.23		-24.78	-22.89	-16.51	-17.98
15-May-08	08:00:00	-4.49		-25.30	-23.27	-16.16	-18.30
15-May-08	20:00:00	-5.12		-25.43	-23.32	-16.68	-18.13
16-May-08	08:00:00	-0.33		-24.79	-23.09	-12.71	-16.69
16-May-08	20:00:00	-1.71		-25.07	-23.45	-15.39	-16.76
17-May-08	08:00:00	-3.32		-26.26	-24.19	-16.01	-18.37
17-May-08	20:00:00	-6.39		-26.38	-24.26	-17.55	-18.37
18-May-08	08:00:00	-5.81		-26.73	-24.48	-17.28	-19.54
18-May-08	20:00:00	-3.89		-27.34	-24.89	-17.01	-19.34
19-May-08	08:00:00	-4.96		-28.22	-25.54	-17.13	-19.25
19-May-08	20:00:00	-8.20		-28.49	-25.81	-18.83	-19.54
20-May-08	08:00:00	-6.44		-28.23	-25.75	-18.34	-19.88
20-May-08	20:00:00	-2.49		-28.96	-26.19	-17.81	-19.65
21-May-08	08:00:00	-2.68		-29.42	-26.67	-17.44	-19.33
21-May-08	20:00:00	-5.93		-29.68	-27.02	-18.73	-19.12
22-May-08	08:00:00	-6.93		-30.47	-27.49	-18.93	-20.16
22-May-08	20:00:00	-10.44		-30.96	-27.83	-20.21	-20.51
23-May-08	08:00:00	-10.39		-31.80	-28.29	-20.40	-21.24
23-May-08	20:00:00	-12.22		-32.10	-28.55	-21.14	-21.24
24-May-08	08:00:00	-10.42		-32.69	-28.91	-21.14	-21.15
24-May-08	20:00:00	-10.29		-32.90	-29.21	-21.25	-20.95
25-May-08	08:00:00	-10.86		-33.61	-29.68	-21.58	-21.95
25-May-08	20:00:00	-13.31		-33.88	-30.00	-22.31	-21.89
26-May-08	08:00:00	-12.75		-34.50	-30.43	-22.51	-22.61
26-May-08	20:00:00	-15.25		-34.52	-30.65	-23.23	-22.64
27-May-08	08:00:00	-13.85		-35.14	-31.00	-23.39	-23.09
27-May-08	20:00:00	-16.45		-35.34	-31.36	-24.11	-23.25
28-May-08	08:00:00	-14.90		-36.13	-31.85	-24.33	-23.41
28-May-08	20:00:00	-5.39		-36.78	-32.41	-22.40	-20.81
29-May-08	08:00:00	-7.12	-19.50	-36.43	-32.74	-21.60	-20.93
29-May-08	20:00:00	-10.75		-36.25	-51.49	-22.24	-21.15
30-May-08	08:00:00	-10.70		-36.78	-51.50	-22.39	-21.77
30-May-08	20:00:00	-13.32		-36.79	-51.51	-23.44	-22.12
31-May-08	08:00:00	-12.09		-37.21	-51.50	-23.71	-22.76
31-May-08	20:00:00	-15.07		-37.22	-51.50	-24.56	-22.91
1-Jun-08	08:00:00	-14.11		-38.04	-51.50	-24.82	-23.52
1-Jun-08	20:00:00	-17.56		-38.39	-51.48	-25.63	-23.65
2-Jun-08	08:00:00	-10.58		-38.97	-51.50	-24.89	-22.78
2-Jun-08	20:00:00	-15.30		-39.28	-51.49	-25.78	-23.19
3-Jun-08	08:00:00	-15.05		-39.77	-51.50	-26.08	-24.02
3-Jun-08	20:00:00	-17.30		-39.68	-51.49	-26.60	-24.35
4-Jun-08	08:00:00	-16.35		-40.23	-51.51	-27.01	-25.02
4-Jun-08	20:00:00	-19.85		-40.47	-51.50	-27.85	-25.15

Date	Time	Water Level (inches)					
		Cox AW1	Cox MW2	Cox AW3	Cox AW4	Cox AW5	Cox AW6
5-Jun-08	08:00:00	-19.26		-41.58	-51.50	-28.59	-26.05
5-Jun-08	20:00:00	-21.56		-42.07	-51.50	-29.59	-26.43
6-Jun-08	08:00:00	-20.48		-42.75	-51.51	-30.35	-27.06
6-Jun-08	20:00:00	-22.84		-42.90	-51.49	-31.30	-27.55
7-Jun-08	08:00:00	-21.34		-43.54	-51.50	-32.02	-27.76
7-Jun-08	20:00:00	-24.16		-43.65	-51.50	-33.06	-28.84
8-Jun-08	08:00:00	-22.47		-44.18	-51.50	-33.72	-28.88
8-Jun-08	20:00:00	-25.05		-44.47	-51.51	-34.64	-29.93
9-Jun-08	08:00:00	-23.61		-45.02	-51.50	-35.38	-29.88
9-Jun-08	20:00:00	-26.15		-45.40	-51.50	-36.28	-30.90
10-Jun-08	08:00:00	-25.09		-46.14	-51.51	-37.07	-30.96
10-Jun-08	20:00:00	-27.33		-46.45	-51.51	-37.90	-31.99
11-Jun-08	08:00:00	-26.55		-47.36	-51.50	-38.72	-32.03
11-Jun-08	20:00:00	-26.72		-47.81	-51.50	-39.25	-25.90
12-Jun-08	08:00:00	-25.22		-47.34	-51.50	-39.50	-27.75
12-Jun-08	20:00:00	-26.72		-47.71	-51.50	-39.91	-28.88
13-Jun-08	08:00:00	-26.30		-47.41	-51.51	-40.46	-29.42
13-Jun-08	20:00:00	-28.27		-47.43	-51.51	-41.00	-30.53
14-Jun-08	08:00:00	-27.42		-47.40	-51.51	-41.52	-31.08
14-Jun-08	20:00:00	-28.81		-47.42	-51.51	-42.06	-31.91
15-Jun-08	08:00:00	-22.52		-47.40	-51.51	-42.57	-31.51
15-Jun-08	20:00:00	-22.45		-47.41	-51.51	-42.83	-31.32
16-Jun-08	08:00:00	-22.64		-47.40	-51.51	-43.14	-31.44
16-Jun-08	20:00:00	-25.29		-47.42	-51.51	-43.53	-32.41
17-Jun-08	08:00:00	-25.00		-47.41	-51.52	-43.98	-32.60
17-Jun-08	20:00:00	-27.26		-47.42	-51.51	-44.50	-33.29
18-Jun-08	08:00:00	-27.41		-47.42	-51.53	-44.97	-33.56
18-Jun-08	20:00:00	-29.33		-47.42	-51.51	-45.49	-34.33
19-Jun-08	08:00:00	-29.43		-47.41	-51.52	-46.08	-34.63
19-Jun-08	20:00:00	-30.72		-47.42	-51.52	-46.63	-35.51
20-Jun-08	08:00:00	-30.61		-47.42	-51.53	-47.22	-35.79
20-Jun-08	20:00:00	-31.52		-47.42	-51.51	-47.75	-36.28
21-Jun-08	08:00:00	-30.89		-47.41	-51.51	-48.17	-36.39
21-Jun-08	20:00:00	-31.50		-47.41	-51.52	-48.54	-36.89
22-Jun-08	08:00:00	-30.78		-47.42	-51.52	-48.96	-37.03
22-Jun-08	20:00:00	-31.94		-47.41	-51.52	-49.39	-37.50
23-Jun-08	08:00:00	-31.52		-47.41	-51.53	-49.84	-37.66
23-Jun-08	20:00:00	-32.62		-47.42	-51.52	-50.29	-38.20
24-Jun-08	08:00:00	-32.61	-40.50	-47.41	-51.52	-50.81	-38.48
24-Jun-08	20:00:00	-33.76		-47.42	-51.52	-51.35	-39.01
25-Jun-08	08:00:00	-33.66		-47.43	-51.52	-51.77	-39.28
25-Jun-08	20:00:00	-34.40		-47.42	-51.67	-52.21	-39.75
26-Jun-08	08:00:00	-34.27		-47.42	-51.67	-52.59	-39.97
26-Jun-08	20:00:00	-35.07		-47.42	-51.66	-52.77	-40.42
27-Jun-08	08:00:00	-35.26		-47.40	-51.67	-52.94	-40.71
27-Jun-08	20:00:00	-35.98		-47.42	-51.67	-52.83	-41.18
28-Jun-08	08:00:00	-36.20		-47.42	-51.66	-52.83	-41.40
28-Jun-08	20:00:00	-36.98		-47.43	-51.66	-52.83	-41.91
29-Jun-08	08:00:00	-37.46		-47.43	-51.64	-52.84	-42.11
29-Jun-08	20:00:00	-38.11		-47.43	-51.62	-52.82	-42.51
30-Jun-08	08:00:00	-38.64		-47.40	-51.52	-52.83	-42.73
30-Jun-08	20:00:00	-39.37		-47.41	-51.53	-52.82	-43.13

Date	Time	Water Level (inches)					
		Cox AW1	Cox MW2	Cox AW3	Cox AW4	Cox AW5	Cox AW6
1-Jul-08	08:00:00	-40.32		-47.40	-51.53	-52.82	-43.34
1-Jul-08	20:00:00	-41.18		-47.42	-51.53	-52.82	-43.78
2-Jul-08	08:00:00	-42.00		-47.40	-51.53	-52.83	-43.99
2-Jul-08	20:00:00	-42.54		-47.41	-51.54	-52.81	-44.36
3-Jul-08	08:00:00	-43.36		-47.41	-51.55	-52.82	-44.52
3-Jul-08	20:00:00	-43.81		-47.41	-51.55	-52.78	-45.02
4-Jul-08	08:00:00	-44.50		-47.40	-51.56	-52.78	-45.22
4-Jul-08	20:00:00	-45.02		-47.41	-51.55	-52.77	-45.61
5-Jul-08	08:00:00	-45.67		-47.40	-51.55	-52.78	-45.73
5-Jul-08	20:00:00	-46.13		-47.41	-51.55	-52.78	-45.99
6-Jul-08	08:00:00	-46.66		-47.40	-51.42	-52.78	-46.02
6-Jul-08	20:00:00	-44.94		-47.42	-51.43	-51.81	-41.09
7-Jul-08	08:00:00	-40.04		-47.41	-51.44	-52.75	-38.22
7-Jul-08	20:00:00	-38.42		-47.40	-51.43	-52.75	-39.37
8-Jul-08	08:00:00	-37.28		-47.41	-51.43	-52.77	-39.82
8-Jul-08	20:00:00	-31.72		-47.31	-51.43	-51.67	-30.39
9-Jul-08	08:00:00	-25.85		-47.35	-51.44	-49.22	-30.96
9-Jul-08	20:00:00	-24.67		-47.40	-51.43	-46.82	-31.98
10-Jul-08	08:00:00	-18.73		-47.41	-51.44	-43.94	-29.07
10-Jul-08	20:00:00	-21.00		-47.42	-51.44	-42.38	-29.05
11-Jul-08	08:00:00	-19.06		-47.41	-51.43	-41.02	-28.38
11-Jul-08	20:00:00	-21.27		-47.42	-51.43	-40.27	-28.46
12-Jul-08	08:00:00	-21.88		-47.41	-51.43	-39.77	-28.43
12-Jul-08	20:00:00	-24.21		-47.42	-51.43	-39.85	-29.47
13-Jul-08	08:00:00	-24.27		-47.42	-51.43	-40.36	-29.97
13-Jul-08	20:00:00	-25.98		-47.41	-51.44	-41.67	-31.10
14-Jul-08	08:00:00	-26.40		-47.42	-51.43	-43.07	-31.47
14-Jul-08	20:00:00	-26.39		-47.43	-51.44	-44.37	-31.67
15-Jul-08	08:00:00	-26.64		-47.41	-51.44	-45.36	-31.92
15-Jul-08	20:00:00	-28.17		-47.42	-51.42	-46.58	-32.67
16-Jul-08	08:00:00	-28.59		-47.41	-51.42	-47.44	-32.83
16-Jul-08	20:00:00	-29.79		-47.41	-51.43	-48.47	-33.65
17-Jul-08	08:00:00	-30.05		-47.42	-51.44	-49.20	-33.91
17-Jul-08	20:00:00	-31.13		-47.41	-51.44	-50.11	-34.87
18-Jul-08	08:00:00	-31.31		-47.42	-51.43	-50.75	-35.16
18-Jul-08	20:00:00	-24.70		-47.42	-51.43	-50.38	-34.34
19-Jul-08	08:00:00	-24.05		-47.41	-51.44	-51.05	-34.42
19-Jul-08	20:00:00	-24.01		-47.41	-51.43	-47.18	-33.20
20-Jul-08	08:00:00	-23.77		-47.42	-51.43	-44.20	-30.95
20-Jul-08	20:00:00	-25.82		-47.42	-51.43	-42.97	-30.64
21-Jul-08	08:00:00	-26.01		-47.43	-51.44	-42.23	-31.17
21-Jul-08	20:00:00	-28.11		-47.41	-51.44	-43.02	-32.74
22-Jul-08	08:00:00	-28.38		-47.42	-51.43	-44.38	-33.15
22-Jul-08	20:00:00	-29.73		-47.41	-51.43	-46.10	-34.25
23-Jul-08	08:00:00	-28.29		-47.40	-51.43	-47.03	-34.37
23-Jul-08	20:00:00	-25.11		-47.42	-51.43	-47.82	-34.52
24-Jul-08	08:00:00	5.94		-39.00	-47.23	-33.25	-18.21
24-Jul-08	20:00:00	1.79		-36.12	-44.83	2.87	-19.50
25-Jul-08	08:00:00	0.09		-36.58	-40.60	-14.57	-19.63
25-Jul-08	20:00:00	-1.15		-38.50	-38.14	-19.63	-20.65
26-Jul-08	08:00:00	-2.22		-39.79	-37.11	-21.23	-20.79
26-Jul-08	20:00:00	-6.28		-41.12	-37.22	-22.78	-21.47

Date	Time	Water Level (inches)					
		Cox AW1	Cox MW2	Cox AW3	Cox AW4	Cox AW5	Cox AW6
27-Jul-08	08:00:00	-7.57		-42.19	-37.28	-23.37	-21.16
27-Jul-08	20:00:00	-11.51		-43.29	-38.45	-24.57	-21.96
28-Jul-08	08:00:00	-12.57		-44.25	-39.03	-25.10	-21.64
28-Jul-08	20:00:00	-16.65		-45.27	-40.69	-26.33	-22.84
29-Jul-08	08:00:00	-16.47		-46.39	-40.97	-26.73	-22.74
29-Jul-08	20:00:00	-19.35		-47.34	-42.38	-27.84	-24.04
30-Jul-08	08:00:00	-18.51	-27.50	-47.59	-42.64	-28.43	-24.18
30-Jul-08	20:00:00	-20.50		-47.23	-43.78	-29.56	-25.31
31-Jul-08	08:00:00	-19.87		-47.52	-44.13	-30.44	-25.39
31-Jul-08	20:00:00	-22.03		-47.36	-45.47	-31.91	-26.40
1-Aug-08	08:00:00	-21.31		-47.34	-45.72	-32.94	-26.56
1-Aug-08	20:00:00	-23.69		-47.33	-47.20	-34.45	-27.73
2-Aug-08	08:00:00	-23.19		-47.34	-47.58	-35.44	-27.82
2-Aug-08	20:00:00	-25.02		-47.34	-48.79	-36.86	-29.06
3-Aug-08	08:00:00	-25.14		-47.36	-49.59	-37.87	-29.18
3-Aug-08	20:00:00	-26.83		-47.41	-50.77	-39.29	-30.52
4-Aug-08	08:00:00	-26.62		-47.41	-51.15	-40.15	-30.56
4-Aug-08	20:00:00	-28.03		-47.41	-51.49	-41.48	-31.79
5-Aug-08	08:00:00	-27.66		-47.42	-51.47	-42.23	-31.83
5-Aug-08	20:00:00	-29.08		-47.40	-51.46	-43.45	-33.19
6-Aug-08	08:00:00	-28.75		-47.40	-51.47	-44.16	-33.09
6-Aug-08	20:00:00	-30.16		-47.42	-51.42	-45.34	-34.39
7-Aug-08	08:00:00	-29.93		-47.40	-51.43	-45.98	-34.21
7-Aug-08	20:00:00	-19.94		-44.34	-51.43	-43.89	-28.81
8-Aug-08	08:00:00	-19.17		-47.39	-51.43	-44.35	-30.21
8-Aug-08	20:00:00	-21.67		-47.42	-51.43	-45.22	-31.59
9-Aug-08	08:00:00	-22.02		-47.42	-51.43	-44.36	-32.22
9-Aug-08	20:00:00	-24.25		-47.42	-51.43	-44.31	-33.28
10-Aug-08	08:00:00	-24.26		-47.42	-51.44	-45.00	-33.56
10-Aug-08	20:00:00	-15.44		-30.69	-51.42	-45.97	-33.11
11-Aug-08	08:00:00	-7.11		-47.29	-51.43	-43.19	-30.70
11-Aug-08	20:00:00	-3.57		-47.32	-51.44	-39.21	-29.10
12-Aug-08	08:00:00	-4.66		-47.33	-51.43	-36.86	-28.03
12-Aug-08	20:00:00	-11.40		-47.34	-51.43	-36.43	-28.36
13-Aug-08	08:00:00	-0.95		-32.32	-51.42	-35.01	-27.17
13-Aug-08	20:00:00	0.12		-44.59	-51.42	-31.91	-22.28
14-Aug-08	08:00:00	0.13		-47.39	-51.43	-29.42	-21.59
14-Aug-08	20:00:00	-0.84		-47.34	-51.42	-28.26	-21.82
15-Aug-08	08:00:00	-1.61		-47.36	-51.42	-27.51	-21.98
15-Aug-08	20:00:00	0.22		-28.42	-51.42	-24.45	-22.95
16-Aug-08	08:00:00	5.40		-23.03	-36.11	4.87	-13.39
16-Aug-08	20:00:00	3.09		-22.39	-28.22	4.10	-14.73
17-Aug-08	08:00:00	1.22		-25.99	-24.77	0.25	-15.02
17-Aug-08	20:00:00	0.31		-28.81	-24.71	-5.50	-15.58
18-Aug-08	08:00:00	-0.21		-30.72	-25.43	-8.93	-16.17
18-Aug-08	20:00:00	-1.24		-33.05	-27.20	-13.08	-17.64
19-Aug-08	08:00:00	-1.52		-34.89	-27.91	-14.51	-17.75
19-Aug-08	20:00:00	-4.29		-36.70	-29.56	-16.84	-18.95
20-Aug-08	08:00:00	-4.79		-38.55	-30.34	-17.42	-19.11
20-Aug-08	20:00:00	-7.96		-39.97	-31.96	-18.97	-20.14
21-Aug-08	08:00:00	-7.57		-40.95	-32.82	-19.38	-20.17
21-Aug-08	20:00:00	-11.13		-42.04	-34.66	-20.74	-21.19

Date	Time	Water Level (inches)					
		Cox AW1	Cox MW2	Cox AW3	Cox AW4	Cox AW5	Cox AW6
22-Aug-08	08:00:00	-10.82		-42.89	-35.36	-21.13	-21.11
22-Aug-08	20:00:00	-14.54		-43.76	-37.31	-22.40	-22.20
23-Aug-08	08:00:00	-13.51		-44.37	-37.75	-22.68	-22.12
23-Aug-08	20:00:00	-15.97		-44.91	-39.32	-23.68	-22.83
24-Aug-08	08:00:00	-14.80		-45.37	-39.60	-23.95	-23.07
24-Aug-08	20:00:00	-17.50		-45.93	-41.25	-24.98	-23.68
25-Aug-08	08:00:00	-16.22		-46.41	-41.48	-25.39	-24.02
25-Aug-08	20:00:00	-17.77		-46.92	-42.72	-26.26	-24.39
26-Aug-08	08:00:00	-16.42		-47.43	-42.94	-26.81	-24.47
26-Aug-08	20:00:00	-14.55		-47.57	-43.49	-27.28	-24.47
27-Aug-08	08:00:00	-12.89		-47.67	-43.65	-27.42	-24.50
27-Aug-08	20:00:00	-2.03		-46.63	-43.68	-24.44	-21.45
28-Aug-08	08:00:00	-0.48		-46.19	-43.84	-22.73	-20.28
28-Aug-08	20:00:00	-0.65	-12.25	-45.47	-44.78	-22.13	-19.81
29-Aug-08	08:00:00	-0.93		-45.77	-44.74	-21.51	-19.74
29-Aug-08	20:00:00	-1.13		-45.94	-45.40	-21.89	-20.15
30-Aug-08	08:00:00	-1.11		-46.15	-45.48	-21.54	-20.25
30-Aug-08	20:00:00	-1.35		-46.21	-46.15	-22.43	-20.63
31-Aug-08	08:00:00	-1.87		-46.47	-46.14	-22.40	-20.39
31-Aug-08	20:00:00	-4.37		-46.75	-47.02	-23.78	-21.53
1-Sep-08	08:00:00	-2.94		-47.14	-46.87	-23.49	-21.03
1-Sep-08	20:00:00	-6.33		-47.36	-47.57	-24.28	-21.92
2-Sep-08	08:00:00	-6.92		-47.79	-47.27	-24.05	-21.52
2-Sep-08	20:00:00	-10.40		-47.62	-47.96	-25.25	-22.57
3-Sep-08	08:00:00	-10.53		-47.70	-47.90	-25.33	-22.29
3-Sep-08	20:00:00	-13.97		-47.52	-48.77	-26.54	-23.33
4-Sep-08	08:00:00	-13.78		-47.50	-48.84	-26.77	-22.99
4-Sep-08	20:00:00	-16.78		-47.46	-49.72	-27.83	-24.17
5-Sep-08	08:00:00	-15.58		-47.47	-49.35	-27.86	-23.80
5-Sep-08	20:00:00	-0.13		-39.35	-47.81	-21.26	-15.63
6-Sep-08	08:00:00	7.70		2.72	1.17	9.79	5.49
6-Sep-08	20:00:00	7.68		0.30	-1.08	7.51	7.31
7-Sep-08	08:00:00	5.32		-4.18	-4.69	5.70	3.92
7-Sep-08	20:00:00	4.26		-8.74	-9.01	5.48	3.22
8-Sep-08	08:00:00	3.62		-11.19	-10.16	4.28	2.95
8-Sep-08	20:00:00	2.88		-14.15	-12.50	3.29	2.43
9-Sep-08	08:00:00	2.44		-15.78	-13.28	1.39	1.99
9-Sep-08	20:00:00	3.90		-2.43	0.82	3.72	3.96
10-Sep-08	08:00:00	5.22		-0.44	1.14	5.94	3.98
10-Sep-08	20:00:00	5.40		-1.92	-0.59	6.00	4.09
11-Sep-08	08:00:00	4.81		-5.26	-3.66	5.37	3.89
11-Sep-08	20:00:00	4.30		-7.94	-6.61	4.96	3.62
12-Sep-08	08:00:00	4.06		-9.44	-7.43	4.23	3.46
12-Sep-08	20:00:00	3.61		-11.45	-9.70	3.54	3.05
13-Sep-08	08:00:00	3.50		-12.65	-10.18	2.21	2.73
13-Sep-08	20:00:00	3.26		-14.45	-12.74	1.26	2.02
14-Sep-08	08:00:00	3.13		-15.24	-13.15	0.74	1.37
14-Sep-08	20:00:00	2.82		-16.65	-15.04	-0.94	-0.17
15-Sep-08	08:00:00	2.71		-17.43	-15.53	-2.09	-1.37
15-Sep-08	20:00:00	2.88		-18.73	-16.73	-4.07	-3.35
16-Sep-08	08:00:00	3.07		-19.52	-17.22	-5.08	-4.58
16-Sep-08	20:00:00	3.20		-20.22	-17.68	-4.16	-3.95

Date	Time	Water Level (inches)					
		Cox AW1	Cox MW2	Cox AW3	Cox AW4	Cox AW5	Cox AW6
17-Sep-08	08:00:00	3.67		-15.47	-11.21	0.55	-0.14
17-Sep-08	20:00:00	3.54		-16.61	-13.90	-2.10	-2.84
18-Sep-08	08:00:00	3.35		-17.55	-14.96	-3.50	-4.52
18-Sep-08	20:00:00	3.07		-19.05	-16.57	-5.73	-6.30
19-Sep-08	08:00:00	2.66		-20.05	-17.43	-6.50	-8.17
19-Sep-08	20:00:00	2.01		-20.91	-18.29	-7.95	-8.80
20-Sep-08	08:00:00	2.12		-21.23	-18.59	-8.44	-10.20
20-Sep-08	20:00:00	1.78		-21.85	-19.18	-9.43	-10.40
21-Sep-08	08:00:00	2.23		-22.28	-19.47	-9.75	-11.45
21-Sep-08	20:00:00	2.11		-22.86	-20.04	-10.57	-11.74
22-Sep-08	08:00:00	2.31	1.50	-23.05	-20.26	-10.61	-12.06
22-Sep-08	20:00:00	2.00		-23.73	-20.90	-11.79	-12.75
23-Sep-08	08:00:00	1.91		-24.13	-21.21	-11.90	-13.61
23-Sep-08	20:00:00	1.65		-24.68	-21.74	-12.83	-13.60
24-Sep-08	08:00:00	1.41		-24.91	-21.98	-12.91	-14.06
24-Sep-08	20:00:00	1.22		-25.33	-22.43	-13.78	-14.68
25-Sep-08	08:00:00	1.56		-25.09	-22.56	-9.01	-12.37
25-Sep-08	20:00:00	2.90		-21.23	-20.55	-2.51	-8.85
26-Sep-08	08:00:00	5.87		-1.73	-2.02	6.00	1.46
26-Sep-08	20:00:00	4.16		-6.13	-6.00	5.05	0.86
27-Sep-08	08:00:00	4.83		-1.88	-0.88	5.42	3.03
27-Sep-08	20:00:00	4.21		-5.92	-5.22	4.75	2.49
28-Sep-08	08:00:00	3.79		-8.31	-6.77	4.10	1.51
28-Sep-08	20:00:00	3.19		-10.32	-8.66	2.93	0.35
29-Sep-08	08:00:00	2.86		-11.82	-9.77	1.65	-1.71
29-Sep-08	20:00:00	2.51		-13.13	-11.41	0.79	-3.31
30-Sep-08	08:00:00	1.91		-13.84	-11.90	-0.08	-4.60
30-Sep-08	20:00:00	1.97		-14.10	-12.03	-1.13	-5.04
1-Oct-08	08:00:00	1.78		-14.64	-12.47	-2.20	-5.95
1-Oct-08	20:00:00	2.04		-15.23	-12.88	-3.22	-6.09
2-Oct-08	08:00:00	3.09		-16.00	-13.82	-3.92	-6.95
2-Oct-08	20:00:00	2.94		-16.70	-14.64	-4.43	-7.97
3-Oct-08	08:00:00	2.90		-17.29	-15.13	2.44	-8.77
3-Oct-08	20:00:00	1.48		-17.92	-15.76	-3.49	-9.53
4-Oct-08	08:00:00	1.20		-18.62	-16.34	-6.31	-10.32
4-Oct-08	20:00:00	1.16		-19.22	-16.96	-8.18	-11.06
5-Oct-08	08:00:00	0.50		-19.86	-17.42	-9.04	-11.71
5-Oct-08	20:00:00	0.16		-20.30	-17.82	-10.19	-12.09
6-Oct-08	08:00:00	0.01		-20.76	-18.17	-10.63	-12.69
6-Oct-08	20:00:00	-0.22		-21.43	-18.77	-11.68	-13.10
7-Oct-08	08:00:00	-0.28		-22.11	-19.22	-11.95	-13.46
7-Oct-08	20:00:00	-0.34		-22.39	-19.54	-12.71	-13.75
8-Oct-08	08:00:00	-0.30		-22.50	-19.74	-12.78	-14.23
8-Oct-08	20:00:00	-0.31		-22.74	-20.03	-13.30	-14.50
9-Oct-08	08:00:00	-0.37		-22.97	-20.27	-13.33	-14.63
9-Oct-08	20:00:00	-0.35		-23.41	-20.68	-13.81	-14.66
10-Oct-08	08:00:00	-0.41		-23.79	-21.04	-13.82	-14.41
10-Oct-08	20:00:00	-0.39		-24.14	-21.38	-14.15	-14.73
11-Oct-08	08:00:00	-0.48		-24.51	-21.75	-14.19	-14.37
11-Oct-08	20:00:00	-0.59		-25.04	-22.24	-14.79	-15.16
12-Oct-08	08:00:00	-0.62		-25.45	-22.61	-14.85	-15.35
12-Oct-08	20:00:00	-0.82		-25.96	-23.06	-15.48	-15.65

Date	Time	Water Level (inches)					
		Cox AW1	Cox MW2	Cox AW3	Cox AW4	Cox AW5	Cox AW6
13-Oct-08	08:00:00	-0.81		-26.07	-23.25	-15.39	-15.93
13-Oct-08	20:00:00	-0.84		-26.18	-23.52	-15.83	-16.14
14-Oct-08	08:00:00	-0.89		-26.29	-23.71	-15.77	-16.19
14-Oct-08	20:00:00	-1.05		-26.54	-24.03	-16.33	-16.47
15-Oct-08	08:00:00	-1.08		-26.81	-24.24	-16.33	-16.53
15-Oct-08	20:00:00	-1.20		-27.20	-24.67	-16.81	-16.84
16-Oct-08	08:00:00	-1.12		-27.40	-24.86	-16.60	-16.71
16-Oct-08	20:00:00	-1.28		-27.78	-25.27	-17.18	-17.42
17-Oct-08	08:00:00	-1.10		-28.04	-25.51	-16.91	-16.99
17-Oct-08	20:00:00	0.37		-27.83	-25.74	-9.75	-14.05
18-Oct-08	08:00:00	3.74		-16.86	-16.98	-1.03	-4.37
18-Oct-08	20:00:00	2.89		-15.93	-15.20	4.38	-6.59
19-Oct-08	08:00:00	1.51		-17.66	-15.73	2.85	-7.96
19-Oct-08	20:00:00	0.35		-19.15	-17.11	0.39	-9.25
20-Oct-08	08:00:00	-0.21		-20.15	-17.99	-2.53	-10.11
20-Oct-08	20:00:00	-0.36		-20.58	-18.50	-5.24	-11.24
21-Oct-08	08:00:00	-0.53		-21.15	-18.98	-6.75	-11.70
21-Oct-08	20:00:00	-0.74		-21.97	-19.71	-8.24	-12.30
22-Oct-08	08:00:00	-0.99		-23.34	-20.61	-9.09	-12.30
22-Oct-08	20:00:00	-1.16		-24.14	-21.32	-10.25	-13.12
23-Oct-08	08:00:00	-1.29		-24.98	-21.95	-10.98	-13.46
23-Oct-08	20:00:00	-1.27		-25.31	-22.36	-11.97	-13.85
24-Oct-08	08:00:00	-0.86		-25.12	-22.46	-12.12	-14.73
24-Oct-08	20:00:00	0.25		-24.14	-22.28	-6.01	-12.26
25-Oct-08	08:00:00	0.06		-21.42	-20.11	-6.25	-10.60
25-Oct-08	20:00:00	-0.06		-20.76	-19.40	-7.02	-10.31
26-Oct-08	08:00:00	-0.40		-21.64	-19.92	-8.47	-11.25
26-Oct-08	20:00:00	-0.51		-22.37	-20.52	-9.72	-12.36
27-Oct-08	08:00:00	-0.59		-22.68	-20.75	-10.26	-13.10
27-Oct-08	20:00:00	-0.87		-23.68	-21.56	-11.30	-13.16
28-Oct-08	08:00:00	-0.91		-24.16	-21.94	-11.76	-13.40
28-Oct-08	20:00:00	-1.24		-25.15	-22.65	-12.63	-13.97
29-Oct-08	08:00:00	-1.29		-25.60	-23.04	-13.02	-14.07
29-Oct-08	20:00:00	-1.49		-26.06	-23.44	-13.56	-14.59
30-Oct-08	08:00:00	-2.03		-27.38	-24.21	-13.86	-14.93
30-Oct-08	20:00:00	-1.96		-27.87	-24.65	-14.16	-15.17
31-Oct-08	08:00:00	-2.03		-28.21	-25.02	-14.41	-15.44
31-Oct-08	20:00:00	-1.70		-27.89	-25.10	-14.86	-15.73

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Cox AW7	Cox MW8	Cox MW9	Cox AW10	Cox AW11	Cox AW12
01-Jan-2008	08:00:00					-1.07	-19.15
01-Jan-2008	20:00:00					-3.57	-20.47
02-Jan-2008	08:00:00					-5.90	-21.48
02-Jan-2008	20:00:00					-7.95	-22.68
03-Jan-2008	08:00:00					-9.80	-23.96
03-Jan-2008	20:00:00					-9.69	-24.26
04-Jan-2008	08:00:00					-10.67	-24.54
04-Jan-2008	20:00:00					-8.85	-24.37
05-Jan-2008	08:00:00					-10.08	-24.64
05-Jan-2008	20:00:00					-8.72	-24.63
06-Jan-2008	08:00:00					-9.29	-24.92
06-Jan-2008	20:00:00					-8.99	-24.98
07-Jan-2008	08:00:00					-10.00	-25.34
07-Jan-2008	20:00:00					-9.39	-25.36
08-Jan-2008	08:00:00					-10.00	-25.56
08-Jan-2008	20:00:00					-8.80	-25.33
09-Jan-2008	08:00:00					-8.90	-25.33
09-Jan-2008	20:00:00					-9.36	-25.76
10-Jan-2008	08:00:00					-10.37	-26.05
10-Jan-2008	20:00:00					-8.80	-25.70
11-Jan-2008	08:00:00					-5.45	-25.33
11-Jan-2008	20:00:00					-4.74	-24.71
12-Jan-2008	08:00:00					-7.36	-25.34
12-Jan-2008	20:00:00					-8.60	-25.72
13-Jan-2008	08:00:00					-9.28	-25.85
13-Jan-2008	20:00:00					-9.43	-25.96
14-Jan-2008	08:00:00					-10.06	-26.26
14-Jan-2008	20:00:00					-10.58	-26.60
15-Jan-2008	08:00:00					-11.25	-26.92
15-Jan-2008	20:00:00					-11.71	-27.32
16-Jan-2008	08:00:00					-12.61	-27.90
16-Jan-2008	20:00:00					-12.16	-28.11
17-Jan-2008	08:00:00					-10.19	-27.64
17-Jan-2008	20:00:00					0.78	-22.94
18-Jan-2008	08:00:00					-2.84	-24.12
18-Jan-2008	20:00:00					-4.96	-24.53
19-Jan-2008	08:00:00					-6.32	-24.73
19-Jan-2008	20:00:00					4.04	-16.38
20-Jan-2008	08:00:00					2.24	-18.34
20-Jan-2008	20:00:00					0.02	-20.31
21-Jan-2008	08:00:00					-4.71	-21.55
21-Jan-2008	20:00:00					-3.68	-21.65
22-Jan-2008	08:00:00					-5.33	-21.48
22-Jan-2008	20:00:00					-3.42	-21.05
23-Jan-2008	08:00:00					-2.60	-21.52
23-Jan-2008	20:00:00					-4.50	-21.88
24-Jan-2008	08:00:00					-5.56	-21.89
24-Jan-2008	20:00:00					-7.10	-22.67
25-Jan-2008	08:00:00					-9.16	-23.93
25-Jan-2008	20:00:00					-8.51	-23.96
26-Jan-2008	08:00:00					-8.20	-23.78
26-Jan-2008	20:00:00					-7.24	-23.48

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Cox AW7	Cox MW8	Cox MW9	Cox AW10	Cox AW11	Cox AW12
27-Jan-2008	08:00:00					-8.73	-24.12
27-Jan-2008	20:00:00					-8.67	-24.44
28-Jan-2008	08:00:00					-9.96	-24.98
28-Jan-2008	20:00:00					-8.84	-24.95
29-Jan-2008	08:00:00					-8.74	-24.99
29-Jan-2008	20:00:00					-7.81	-24.69
30-Jan-2008	08:00:00					-4.03	-24.73
30-Jan-2008	20:00:00					-7.27	-25.51
31-Jan-2008	08:00:00					-9.61	-26.17
31-Jan-2008	20:00:00					-8.35	-25.71
01-Feb-2008	08:00:00					-5.98	-25.09
01-Feb-2008	20:00:00					3.17	-16.03
02-Feb-2008	08:00:00					1.50	-18.35
02-Feb-2008	20:00:00					0.54	-19.09
03-Feb-2008	08:00:00					-1.56	-20.10
03-Feb-2008	20:00:00					-2.48	-20.52
04-Feb-2008	08:00:00					-4.00	-21.12
04-Feb-2008	20:00:00					-4.37	-21.47
05-Feb-2008	08:00:00					-5.02	-21.73
05-Feb-2008	20:00:00					-4.57	-21.57
06-Feb-2008	08:00:00					-5.22	-21.81
06-Feb-2008	20:00:00					-4.51	-21.47
07-Feb-2008	08:00:00					-6.03	-22.37
07-Feb-2008	20:00:00					-6.94	-22.84
08-Feb-2008	08:00:00					-8.02	-23.29
08-Feb-2008	20:00:00					-8.32	-23.93
09-Feb-2008	08:00:00					-8.72	-24.17
09-Feb-2008	20:00:00					-7.95	-24.29
10-Feb-2008	08:00:00					-9.52	-25.11
10-Feb-2008	20:00:00					-9.34	-25.31
11-Feb-2008	08:00:00					-11.17	-26.49
11-Feb-2008	20:00:00					-10.50	-26.62
12-Feb-2008	08:00:00					-10.50	-26.78
12-Feb-2008	20:00:00					-8.18	-26.11
13-Feb-2008	08:00:00					4.70	-13.95
13-Feb-2008	20:00:00					4.14	-12.24
14-Feb-2008	08:00:00					2.25	-16.55
14-Feb-2008	20:00:00					0.96	-18.01
15-Feb-2008	08:00:00					-0.69	-19.07
15-Feb-2008	20:00:00					-1.43	-19.44
16-Feb-2008	08:00:00					-2.95	-20.17
16-Feb-2008	20:00:00					-3.97	-20.70
17-Feb-2008	08:00:00					-4.71	-20.91
17-Feb-2008	20:00:00					-2.79	-20.03
18-Feb-2008	08:00:00					4.02	2.65
18-Feb-2008	20:00:00					3.24	2.75
19-Feb-2008	08:00:00					2.01	0.87
19-Feb-2008	20:00:00					1.00	-3.81
20-Feb-08	08:00:00					-0.50	-11.97
20-Feb-08	20:00:00					-0.87	-14.04
21-Feb-08	08:00:00					-2.92	-16.65
21-Feb-08	20:00:00					-2.81	-16.90

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Cox AW7	Cox MW8	Cox MW9	Cox AW10	Cox AW11	Cox AW12
22-Feb-08	08:00:00					3.99	-8.29
22-Feb-08	20:00:00					3.45	1.52
23-Feb-08	08:00:00					2.60	0.84
23-Feb-08	20:00:00					1.89	-2.29
24-Feb-08	08:00:00					0.71	-9.68
24-Feb-08	20:00:00					0.41	-11.83
25-Feb-08	08:00:00					-0.72	-13.70
25-Feb-08	20:00:00					-0.96	-14.48
26-Feb-08	08:00:00					-0.72	-14.80
26-Feb-08	20:00:00					3.34	-8.89
27-Feb-08	08:00:00					1.97	-12.22
27-Feb-08	20:00:00					0.19	-14.48
28-Feb-08	08:00:00					-2.10	-16.49
28-Feb-08	20:00:00					-3.01	-17.22
29-Feb-08						-4.39	-18.03
29-Feb-08						-3.31	-17.56
1-Mar-08	08:00:00					-2.67	-17.78
1-Mar-08	20:00:00					-3.77	-18.22
2-Mar-08	08:00:00					-5.49	-19.25
2-Mar-08	20:00:00					-5.18	-19.38
3-Mar-08	08:00:00		-3.50	4.50		-5.65	-19.78
3-Mar-08	20:00:00				3.16	-4.27	-19.49
4-Mar-08	08:00:00				3.21	-3.92	-19.60
4-Mar-08	20:00:00				4.13	0.30	-18.78
5-Mar-08	08:00:00				5.66	3.50	4.93
5-Mar-08	20:00:00				4.19	2.50	3.92
6-Mar-08	08:00:00				3.95	1.47	1.98
6-Mar-08	20:00:00				3.78	0.70	0.45
7-Mar-08	08:00:00				3.72	0.20	-4.39
7-Mar-08	20:00:00				6.25	4.27	5.13
8-Mar-08	08:00:00				5.45	4.60	5.58
8-Mar-08	20:00:00				4.49	2.53	4.61
9-Mar-08	08:00:00				4.15	1.32	3.25
9-Mar-08	20:00:00				3.93	0.29	1.63
10-Mar-08	08:00:00				3.88	-0.86	0.10
10-Mar-08	20:00:00				3.79	-0.79	-3.91
11-Mar-08	08:00:00				3.85	-1.17	-9.04
11-Mar-08	20:00:00				3.77	-0.95	-10.40
12-Mar-08	08:00:00	3.39			3.77	-1.70	-12.08
12-Mar-08	20:00:00	3.05			3.60	-2.62	-13.23
13-Mar-08	08:00:00	2.85			3.50	-3.69	-14.52
13-Mar-08	20:00:00	2.75			3.47	-3.63	-14.73
14-Mar-08	08:00:00	2.95			3.46	-3.59	-15.26
14-Mar-08	20:00:00	2.86			3.52	-3.57	-15.26
15-Mar-08	08:00:00	2.36			3.40	-4.67	-16.59
15-Mar-08	20:00:00	6.32			6.58	5.58	0.23
16-Mar-08	08:00:00	5.05			4.80	3.14	5.39
16-Mar-08	20:00:00	4.64			4.15	2.01	4.02
17-Mar-08	08:00:00	4.30			3.98	0.72	2.38
17-Mar-08	20:00:00	3.97			3.79	-0.33	0.80
18-Mar-08	08:00:00	3.94			3.80	-0.89	-2.47
18-Mar-08	20:00:00	4.19			3.83	-0.35	-7.40

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Cox AW7	Cox MW8	Cox MW9	Cox AW10	Cox AW11	Cox AW12
19-Mar-08	08:00:00	4.15			3.84	-0.30	-9.96
19-Mar-08	20:00:00	4.27			3.75	-0.21	-10.80
20-Mar-08	08:00:00	3.16			3.76	-1.31	-12.91
20-Mar-08	20:00:00	2.50			3.38	-3.94	-14.77
21-Mar-08	08:00:00	2.43			3.15	-5.17	-16.02
21-Mar-08	20:00:00	2.59			3.15	-4.97	-15.99
22-Mar-08	08:00:00	2.84			3.24	-4.38	-16.40
22-Mar-08	20:00:00	2.28			3.20	-5.35	-16.76
23-Mar-08	08:00:00	1.80			2.92	-6.89	-18.16
23-Mar-08	20:00:00	1.64			2.72	-7.26	-18.41
24-Mar-08	08:00:00	1.60			2.60	-7.39	-19.00
24-Mar-08	20:00:00	1.18			2.68	-7.77	-19.37
25-Mar-08	08:00:00	0.90			2.54	-8.61	-20.30
25-Mar-08	20:00:00	0.98			2.34	-8.14	-20.14
26-Mar-08	08:00:00	1.21	-5.75	4.00	2.20	-7.37	-20.35
26-Mar-08	20:00:00	0.83			2.22	-7.52	-20.04
27-Mar-08	08:00:00	1.02			2.20	-6.97	-20.49
27-Mar-08	20:00:00	0.57			1.95	-7.73	-20.48
28-Mar-08	08:00:00	0.63			1.89	-7.38	-21.08
28-Mar-08	20:00:00	0.11			1.52	-8.46	-21.25
29-Mar-08	08:00:00	-0.48			0.88	-9.46	-22.34
29-Mar-08	20:00:00	-0.32			-0.79	-9.32	-22.61
30-Mar-08	08:00:00	0.14			-2.91	-8.50	-22.90
30-Mar-08	20:00:00	3.49			2.42	-0.63	-22.13
31-Mar-08	08:00:00	3.78			3.20	1.39	-20.16
31-Mar-08	20:00:00	4.61			3.61	2.81	-17.08
1-Apr-08	08:00:00	4.26			3.35	2.12	-17.28
1-Apr-08	20:00:00	4.13			4.08	1.80	0.81
2-Apr-08	08:00:00	3.54			3.11	0.94	3.34
2-Apr-08	20:00:00	2.85			2.79	-1.61	0.50
3-Apr-08	08:00:00	2.64			2.61	-3.24	-5.14
3-Apr-08	20:00:00	3.51			2.95	-1.25	-12.71
4-Apr-08	08:00:00	3.79			3.22	0.45	-14.34
4-Apr-08	20:00:00	3.66			3.16	-0.67	-15.73
5-Apr-08	08:00:00	5.87			5.33	4.27	1.60
5-Apr-08	20:00:00	7.67			9.49	5.88	8.52
6-Apr-08	08:00:00	6.17			4.92	3.74	6.26
6-Apr-08	20:00:00	5.49			4.40	2.90	5.26
7-Apr-08	08:00:00	5.06			4.02	2.26	4.21
7-Apr-08	20:00:00	4.90			3.75	1.63	3.40
8-Apr-08	08:00:00	4.78			3.72	0.95	2.12
8-Apr-08	20:00:00	4.56			3.55	-0.09	0.95
9-Apr-08	08:00:00	4.43			3.62	-0.65	-0.43
9-Apr-08	20:00:00	4.28			3.51	-1.40	-4.50
10-Apr-08	08:00:00	4.15			3.56	-1.79	-8.67
10-Apr-08	20:00:00	4.04			3.48	-2.50	-10.03
11-Apr-08	08:00:00	4.02			3.51	-2.57	-11.39
11-Apr-08	20:00:00	3.62			3.36	-3.87	-11.91
12-Apr-08	08:00:00	3.77			3.46	-3.71	-12.85
12-Apr-08	20:00:00	5.56			4.50	3.19	-4.72
13-Apr-08	08:00:00	4.81			3.81	1.88	-8.93
13-Apr-08	20:00:00	3.88			3.42	-0.53	-11.52

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Cox AW7	Cox MW8	Cox MW9	Cox AW10	Cox AW11	Cox AW12
14-Apr-08	08:00:00	3.64			3.41	-2.30	-13.53
14-Apr-08	20:00:00	3.44			3.35	-3.36	-14.42
15-Apr-08	08:00:00	3.08			3.37	-4.55	-15.44
15-Apr-08	20:00:00	2.34			3.09	-6.88	-16.13
16-Apr-08	08:00:00	2.12			3.01	-7.73	-17.13
16-Apr-08	20:00:00	1.96			2.89	-8.42	-17.21
17-Apr-08	08:00:00	2.06			2.88	-8.14	-17.78
17-Apr-08	20:00:00	1.56			2.80	-9.19	-17.98
18-Apr-08	08:00:00	1.54			2.71	-8.76	-18.71
18-Apr-08	20:00:00	0.87			2.43	-10.32	-19.05
19-Apr-08	08:00:00	1.18			2.12	-9.28	-19.62
19-Apr-08	20:00:00	0.47			1.67	-10.74	-19.95
20-Apr-08	08:00:00	3.18			2.32	-5.53	-20.25
20-Apr-08	20:00:00	1.89			2.79	-7.16	-20.55
21-Apr-08	08:00:00	1.61			2.70	-7.45	-21.05
21-Apr-08	20:00:00	1.30			2.63	-8.28	-21.47
22-Apr-08	08:00:00	2.23	-4.50	4.50	2.85	-6.25	-21.61
22-Apr-08	20:00:00	1.34			2.77	-7.92	-22.06
23-Apr-08	08:00:00	1.29			2.57	-8.21	-22.56
23-Apr-08	20:00:00	0.50			2.29	-10.00	-22.95
24-Apr-08	08:00:00	0.24			1.76	-10.16	-23.47
24-Apr-08	20:00:00	-0.28			0.65	-11.48	-23.69
25-Apr-08	08:00:00	-0.36			-1.41	-11.04	-24.14
25-Apr-08	20:00:00	-1.11			-4.92	-12.35	-24.35
26-Apr-08	08:00:00	-0.95			-6.94	-11.60	-24.82
26-Apr-08	20:00:00	-2.27			-9.22	-13.30	-25.11
27-Apr-08	08:00:00	-1.93			-10.17	-12.57	-25.67
27-Apr-08	20:00:00	3.43			3.53	1.06	-21.55
28-Apr-08	08:00:00	6.32			3.94	4.13	5.27
28-Apr-08	20:00:00	6.22			3.72	3.56	3.91
29-Apr-08	08:00:00	5.49			3.15	2.95	2.93
29-Apr-08	20:00:00	4.41			2.52	0.92	0.16
30-Apr-08	08:00:00	4.04			2.41	-1.00	-2.22
30-Apr-08	20:00:00	3.35			2.10	-3.72	-11.96
1-May-08	08:00:00	3.12			2.05	-5.14	-15.41
1-May-08	20:00:00	2.41			1.68	-7.40	-17.28
2-May-08	08:00:00	2.47			1.34	-7.68	-18.73
2-May-08	20:00:00	1.34			0.21	-9.91	-19.79
3-May-08	08:00:00	1.78			-1.82	-9.29	-20.76
3-May-08	20:00:00	0.71			-5.66	-11.18	-21.42
4-May-08	08:00:00	1.16			-6.99	-10.10	-22.31
4-May-08	20:00:00	-0.16			-9.07	-12.11	-23.03
5-May-08	08:00:00	0.98			-9.57	-10.56	-23.73
5-May-08	20:00:00	-0.44			-11.24	-12.55	-24.31
6-May-08	08:00:00	-0.50			-12.12	-12.34	-24.90
6-May-08	20:00:00	-1.72			-13.27	-13.57	-25.45
7-May-08	08:00:00	-1.57			-13.94	-13.08	-25.95
7-May-08	20:00:00	-3.30			-15.01	-14.83	-26.32
8-May-08	08:00:00	-2.52			-15.38	-13.83	-26.75
8-May-08	20:00:00	-1.98			-15.29	-13.00	-26.80
9-May-08	08:00:00	1.96			-11.34	-8.89	-26.53
9-May-08	20:00:00	-0.64			-14.26	-11.46	-27.22

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Cox AW7	Cox MW8	Cox MW9	Cox AW10	Cox AW11	Cox AW12
10-May-08	08:00:00	-0.93			-15.15	-11.54	-27.71
10-May-08	20:00:00	-3.97			-16.93	-14.59	-28.46
11-May-08	08:00:00	-2.93			-17.21	-14.05	-28.75
11-May-08	20:00:00	2.25			-11.44	-6.43	-27.22
12-May-08	08:00:00	1.50			-11.77	-6.40	-28.06
12-May-08	20:00:00	-0.36			-14.14	-9.92	-28.99
13-May-08	08:00:00	-0.90			-15.35	-11.07	-29.54
13-May-08	20:00:00	-2.64			-16.80	-13.32	-29.94
14-May-08	08:00:00	-2.81			-17.39	-13.57	-30.27
14-May-08	20:00:00	-3.79			-17.97	-14.77	-30.43
15-May-08	08:00:00	-3.36			-18.21	-14.22	-30.75
15-May-08	20:00:00	-4.36			-18.60	-15.12	-30.91
16-May-08	08:00:00	1.33			-15.02	-9.79	-30.47
16-May-08	20:00:00	-1.46			-16.96	-11.92	-30.82
17-May-08	08:00:00	-2.61			-18.35	-13.20	-31.48
17-May-08	20:00:00	-4.88			-19.19	-15.49	-31.65
18-May-08	08:00:00	-4.42			-19.47	-15.06	-31.83
18-May-08	20:00:00	-4.66			-19.40	-15.62	-32.14
19-May-08	08:00:00	-2.88			-19.44	-14.06	-32.67
19-May-08	20:00:00	-5.81			-20.32	-16.32	-32.98
20-May-08	08:00:00	-4.70			-20.40	-15.42	-32.83
20-May-08	20:00:00	-3.79			-19.31	-13.89	-32.89
21-May-08	08:00:00	-2.61			-19.33	-12.69	-33.52
21-May-08	20:00:00	-4.97			-20.33	-14.61	-33.73
22-May-08	08:00:00	-5.74			-21.15	-15.17	-34.03
22-May-08	20:00:00	-8.08			-21.80	-17.23	-34.31
23-May-08	08:00:00	-8.00			-22.41	-17.41	-34.58
23-May-08	20:00:00	-9.21			-22.80	-18.40	-34.89
24-May-08	08:00:00	-8.28			-23.13	-17.99	-35.14
24-May-08	20:00:00	-7.57			-22.97	-17.26	-35.32
25-May-08	08:00:00	-8.27			-23.41	-17.57	-35.61
25-May-08	20:00:00	-10.10			-23.75	-18.92	-35.86
26-May-08	08:00:00	-9.86			-24.18	-18.88	-36.17
26-May-08	20:00:00	-11.24			-24.48	-19.84	-36.39
27-May-08	08:00:00	-10.37			-24.80	-19.54	-36.78
27-May-08	20:00:00	-12.03			-25.17	-20.56	-37.14
28-May-08	08:00:00	-10.65			-25.54	-20.30	-37.56
28-May-08	20:00:00	-1.77			-24.37	-16.24	-37.78
29-May-08	08:00:00	-3.70	-14.00	-30.50	-24.00	-14.85	-37.52
29-May-08	20:00:00	-32.60			-24.45	-16.30	-37.51
30-May-08	08:00:00	-32.94			-24.88	-16.56	-37.53
30-May-08	20:00:00	-33.19			-25.28	-17.87	-37.68
31-May-08	08:00:00	-33.25			-25.56	-17.72	-37.81
31-May-08	20:00:00	-33.15			-25.93	-19.03	-37.96
1-Jun-08	08:00:00	-33.04			-26.38	-19.09	-38.40
1-Jun-08	20:00:00	-7.08			-26.93	-20.42	-38.76
2-Jun-08	08:00:00	-9.39			-26.63	-17.84	-38.54
2-Jun-08	20:00:00	-14.85			-27.16	-19.11	-39.15
3-Jun-08	08:00:00	-18.73			-27.52	-19.48	-39.55
3-Jun-08	20:00:00	-20.38			-27.90	-20.33	-39.80
4-Jun-08	08:00:00	-22.36			-28.28	-20.62	-40.08
4-Jun-08	20:00:00	-23.72			-28.86	-21.57	-40.41

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Cox AW7	Cox MW8	Cox MW9	Cox AW10	Cox AW11	Cox AW12
5-Jun-08	08:00:00	-25.33			-29.44	-21.94	-41.07
5-Jun-08	20:00:00	-26.74			-30.12	-22.76	-41.61
6-Jun-08	08:00:00	-28.03			-30.60	-22.94	-42.08
6-Jun-08	20:00:00	-29.08			-31.21	-23.50	-42.45
7-Jun-08	08:00:00	-29.91			-31.65	-23.59	-42.80
7-Jun-08	20:00:00	-30.67			-32.38	-24.20	-43.19
8-Jun-08	08:00:00	-31.16			-32.84	-24.28	-43.65
8-Jun-08	20:00:00	-31.69			-33.65	-24.84	-44.17
9-Jun-08	08:00:00	-32.11			-34.19	-25.01	-44.69
9-Jun-08	20:00:00	-32.62			-35.01	-25.60	-45.44
10-Jun-08	08:00:00	-32.97			-35.63	-25.84	-46.28
10-Jun-08	20:00:00	-33.35			-36.44	-26.38	-47.01
11-Jun-08	08:00:00	-33.76			-37.13	-26.76	-47.81
11-Jun-08	20:00:00	-34.34			-37.92	-27.26	-48.71
12-Jun-08	08:00:00	-34.99			-38.44	-27.39	-49.17
12-Jun-08	20:00:00	-35.60			-38.91	-27.53	-49.17
13-Jun-08	08:00:00	-36.17			-39.38	-27.69	-49.17
13-Jun-08	20:00:00	-36.65			-39.85	-27.98	-49.17
14-Jun-08	08:00:00	-36.96			-40.33	-28.10	-49.17
14-Jun-08	20:00:00	-37.20			-40.78	-28.47	-49.14
15-Jun-08	08:00:00	-37.40			-41.26	-28.57	-49.14
15-Jun-08	20:00:00	-37.61			-41.47	-28.02	-49.16
16-Jun-08	08:00:00	-37.86			-41.54	-27.55	-49.16
16-Jun-08	20:00:00	-38.07			-41.89	-28.01	-49.15
17-Jun-08	08:00:00	-38.21			-42.11	-27.97	-49.16
17-Jun-08	20:00:00	-38.41			-42.46	-28.63	-49.15
18-Jun-08	08:00:00	-38.64			-42.77	-28.83	-49.17
18-Jun-08	20:00:00	-38.86			-43.09	-29.35	-49.15
19-Jun-08	08:00:00	-39.15			-43.45	-29.70	-49.15
19-Jun-08	20:00:00	-39.49			-43.81	-30.21	-49.15
20-Jun-08	08:00:00	-39.75			-44.16	-30.56	-49.17
20-Jun-08	20:00:00	-40.01			-44.52	-30.98	-49.15
21-Jun-08	08:00:00	-40.27			-44.79	-31.17	-49.16
21-Jun-08	20:00:00	-40.50			-45.06	-31.36	-49.15
22-Jun-08	08:00:00	-40.70			-45.35	-31.54	-49.17
22-Jun-08	20:00:00	-40.90			-45.68	-32.01	-49.16
23-Jun-08	08:00:00	-41.11			-45.95	-32.16	-49.16
23-Jun-08	20:00:00	-41.38			-46.33	-32.66	-49.14
24-Jun-08	08:00:00	-41.79		-54.50	-46.72	-33.07	-49.15
24-Jun-08	20:00:00	-42.25			-47.16	-33.66	-49.14
25-Jun-08	08:00:00	-42.64	-41.00		-47.60	-33.87	-49.15
25-Jun-08	20:00:00	-32.46			-47.98	-34.37	-49.14
26-Jun-08	08:00:00	-32.42			-48.38	-34.61	-49.14
26-Jun-08	20:00:00	-33.16			-48.81	-35.21	-49.15
27-Jun-08	08:00:00	-33.45			-49.28	-35.67	-49.15
27-Jun-08	20:00:00	-34.15			-49.68	-36.44	-49.16
28-Jun-08	08:00:00	-34.20			-50.08	-36.89	-49.16
28-Jun-08	20:00:00	-34.83			-50.48	-37.69	-49.16
29-Jun-08	08:00:00	-35.08			-50.89	-38.25	-49.15
29-Jun-08	20:00:00	-35.53			-51.18	-38.95	-49.16
30-Jun-08	08:00:00	-35.59			-51.51	-39.44	-49.15
30-Jun-08	20:00:00	-36.19			-51.07	-40.20	-49.17

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Cox AW7	Cox MW8	Cox MW9	Cox AW10	Cox AW11	Cox AW12
1-Jul-08	08:00:00	-36.67			-51.07	-40.86	-49.18
1-Jul-08	20:00:00	-37.31			-51.07	-41.65	-49.17
2-Jul-08	08:00:00	-37.39			-51.08	-42.24	-49.16
2-Jul-08	20:00:00	-37.73			-51.10	-42.88	-49.16
3-Jul-08	08:00:00	-37.98			-51.09	-43.46	-49.18
3-Jul-08	20:00:00	-38.36			-51.08	-44.08	-49.16
4-Jul-08	08:00:00	-38.57			-51.09	-44.64	-49.16
4-Jul-08	20:00:00	-38.98			-51.07	-45.24	-49.15
5-Jul-08	08:00:00	-39.03			-51.08	-45.75	-49.16
5-Jul-08	20:00:00	-39.31			-51.09	-46.34	-49.16
6-Jul-08	08:00:00	-39.35			-51.08	-46.85	-49.17
6-Jul-08	20:00:00	-32.01			-51.08	-45.51	-49.16
7-Jul-08	08:00:00	-24.81			-51.07	-44.18	-49.17
7-Jul-08	20:00:00	-26.50			-51.07	-45.11	-49.16
8-Jul-08	08:00:00	-28.32			-51.07	-45.61	-49.16
8-Jul-08	20:00:00	-13.07			-51.08	-40.91	-49.17
9-Jul-08	08:00:00	-11.76			-50.40	-38.15	-49.17
9-Jul-08	20:00:00	-15.02			-48.95	-35.83	-49.16
10-Jul-08	08:00:00	-10.11			-46.94	-31.77	-49.14
10-Jul-08	20:00:00	-12.37			-45.87	-30.09	-49.16
11-Jul-08	08:00:00	-11.12			-44.98	-28.52	-49.16
11-Jul-08	20:00:00	-13.15			-44.55	-27.62	-49.17
12-Jul-08	08:00:00	-14.17			-44.12	-26.92	-49.17
12-Jul-08	20:00:00	-16.62			-44.31	-27.05	-49.16
13-Jul-08	08:00:00	-17.80			-43.92	-26.54	-49.17
13-Jul-08	20:00:00	-20.01			-44.35	-27.19	-49.17
14-Jul-08	08:00:00	-20.90			-44.21	-27.07	-49.17
14-Jul-08	20:00:00	-21.11			-44.17	-27.24	-49.17
15-Jul-08	08:00:00	-22.06			-44.02	-27.13	-49.16
15-Jul-08	20:00:00	-23.86			-44.64	-28.13	-49.17
16-Jul-08	08:00:00	-24.42			-44.51	-28.03	-49.17
16-Jul-08	20:00:00	-25.73			-45.13	-29.02	-49.15
17-Jul-08	08:00:00	-26.26			-45.01	-28.92	-49.16
17-Jul-08	20:00:00	-27.34			-45.69	-29.88	-49.17
18-Jul-08	08:00:00	-27.82			-45.64	-29.84	-49.17
18-Jul-08	20:00:00	-23.15			-44.10	-27.82	-49.17
19-Jul-08	08:00:00	-23.95			-43.29	-26.31	-49.17
19-Jul-08	20:00:00	-22.73			-43.01	-25.84	-49.16
20-Jul-08	08:00:00	-20.56			-42.44	-25.23	-49.16
20-Jul-08	20:00:00	-20.99			-42.69	-25.76	-49.16
21-Jul-08	08:00:00	-21.81			-42.25	-25.37	-49.17
21-Jul-08	20:00:00	-23.97			-43.26	-26.80	-49.16
22-Jul-08	08:00:00	-24.73			-42.99	-26.62	-49.17
22-Jul-08	20:00:00	-26.35			-44.00	-27.78	-49.17
23-Jul-08	08:00:00	-25.94			-43.36	-27.29	-49.17
23-Jul-08	20:00:00	-24.06			-43.22	-26.71	-49.16
24-Jul-08	08:00:00	-1.13			8.00	5.54	-33.62
24-Jul-08	20:00:00	-2.25			2.82	2.22	-1.35
25-Jul-08	08:00:00	-3.48			1.28	0.08	-18.50
25-Jul-08	20:00:00	-5.03			-1.82	-4.36	-25.89
26-Jul-08	08:00:00	-6.01			-6.26	-7.00	-28.53
26-Jul-08	20:00:00	-8.04			-10.32	-10.72	-31.05

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Cox AW7	Cox MW8	Cox MW9	Cox AW10	Cox AW11	Cox AW12
27-Jul-08	08:00:00	-8.33			-11.95	-11.49	-32.23
27-Jul-08	20:00:00	-10.19			-14.98	-13.63	-34.08
28-Jul-08	08:00:00	-10.39			-15.95	-14.20	-34.95
28-Jul-08	20:00:00	-12.73			-18.53	-16.32	-36.76
29-Jul-08	08:00:00	-12.32			-19.17	-16.57	-37.27
29-Jul-08	20:00:00	-14.38			-21.12	-18.07	-38.77
30-Jul-08	08:00:00	-14.12	-22.50	-27.50	-21.60	-18.15	-39.06
30-Jul-08	20:00:00	-15.51			-23.07	-19.08	-40.14
31-Jul-08	08:00:00	-15.69			-23.48	-19.23	-40.35
31-Jul-08	20:00:00	-17.51			-24.96	-20.25	-41.48
1-Aug-08	08:00:00	-17.24			-25.30	-20.37	-41.77
1-Aug-08	20:00:00	-19.04			-26.83	-21.44	-43.15
2-Aug-08	08:00:00	-19.07			-27.20	-21.63	-43.52
2-Aug-08	20:00:00	-20.79			-28.81	-22.64	-44.99
3-Aug-08	08:00:00	-21.22			-29.33	-23.01	-45.68
3-Aug-08	20:00:00	-22.95			-31.02	-24.04	-47.27
4-Aug-08	08:00:00	-22.99			-31.40	-24.30	-47.64
4-Aug-08	20:00:00	-24.59			-33.09	-25.24	-48.96
5-Aug-08	08:00:00	-24.47			-33.39	-25.35	-49.16
5-Aug-08	20:00:00	-25.90			-35.01	-26.25	-49.17
6-Aug-08	08:00:00	-25.90			-35.33	-26.35	-49.16
6-Aug-08	20:00:00	-27.42			-36.88	-27.36	-49.17
7-Aug-08	08:00:00	-27.50			-37.19	-27.48	-49.18
7-Aug-08	20:00:00	-17.16			-34.34	-23.27	-46.70
8-Aug-08	08:00:00	-18.26			-33.46	-22.78	-49.12
8-Aug-08	20:00:00	-21.60			-34.99	-23.54	-49.13
9-Aug-08	08:00:00	-23.03			-35.28	-23.54	-49.18
9-Aug-08	20:00:00	-24.86			-36.70	-24.49	-49.18
10-Aug-08	08:00:00	-25.35			-36.91	-24.47	-49.18
10-Aug-08	20:00:00	-24.99			-37.02	-21.91	-49.17
11-Aug-08	08:00:00	-15.52			-31.23	-18.34	-47.45
11-Aug-08	20:00:00	-16.33			-31.34	-18.05	-48.08
12-Aug-08	08:00:00	-16.31			-31.22	-18.00	-47.07
12-Aug-08	20:00:00	-17.40			-32.77	-19.35	-47.09
13-Aug-08	08:00:00	-12.62			-29.20	-16.75	-46.48
13-Aug-08	20:00:00	-3.11			-23.39	-6.13	-40.75
14-Aug-08	08:00:00	-4.07			-22.00	-8.48	-39.32
14-Aug-08	20:00:00	-5.77			-22.97	-11.82	-39.50
15-Aug-08	08:00:00	-6.95			-23.25	-12.89	-39.21
15-Aug-08	20:00:00	-7.32			-15.58	-3.06	-38.13
16-Aug-08	08:00:00	1.65			7.61	5.91	6.81
16-Aug-08	20:00:00	0.89			4.01	3.36	3.74
17-Aug-08	08:00:00	0.33			2.47	1.93	-0.28
17-Aug-08	20:00:00	-0.13			1.90	0.39	-13.48
18-Aug-08	08:00:00	-0.77			1.25	-1.81	-19.99
18-Aug-08	20:00:00	-2.13			-2.00	-6.71	-24.21
19-Aug-08	08:00:00	-2.51			-5.96	-8.08	-25.96
19-Aug-08	20:00:00	-4.44			-10.55	-11.59	-28.42
20-Aug-08	08:00:00	-4.98			-11.77	-12.27	-29.46
20-Aug-08	20:00:00	-7.02			-14.69	-14.34	-31.15
21-Aug-08	08:00:00	-6.91			-15.20	-14.46	-31.86
21-Aug-08	20:00:00	-8.97			-17.40	-16.09	-33.36

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Cox AW7	Cox MW8	Cox MW9	Cox AW10	Cox AW11	Cox AW12
22-Aug-08	08:00:00	-8.73			-17.71	-16.21	-33.84
22-Aug-08	20:00:00	-10.62			-19.44	-17.58	-35.13
23-Aug-08	08:00:00	-9.94			-19.64	-17.54	-35.44
23-Aug-08	20:00:00	-11.30			-20.87	-18.45	-36.39
24-Aug-08	08:00:00	-11.01			-21.04	-18.31	-36.58
24-Aug-08	20:00:00	-12.55			-22.16	-19.20	-37.56
25-Aug-08	08:00:00	-12.41			-22.37	-19.15	-37.79
25-Aug-08	20:00:00	-13.32			-23.13	-19.71	-38.50
26-Aug-08	08:00:00	-13.16			-23.36	-19.59	-38.64
26-Aug-08	20:00:00	-11.86			-23.62	-19.19	-38.85
27-Aug-08	08:00:00	-11.91			-23.63	-18.61	-38.70
27-Aug-08	20:00:00	-3.32			-18.28	-12.03	-36.35
28-Aug-08	08:00:00	-1.86			-17.10	-9.22	-35.61
28-Aug-08	20:00:00	-3.07			-18.62	-11.46	-35.61
29-Aug-08	08:00:00	-3.84	-14.00	-20.75	-19.10	-12.22	
29-Aug-08	20:00:00	-3.64			-19.98	-12.63	
30-Aug-08	08:00:00	-4.67			-20.10	-13.02	
30-Aug-08	20:00:00	-6.35			-21.19	-14.52	
31-Aug-08	08:00:00	-6.49			-21.45	-14.66	
31-Aug-08	20:00:00	-8.68			-22.89	-16.34	
1-Sep-08	08:00:00	-8.20			-23.11	-16.20	
1-Sep-08	20:00:00	-10.07			-24.33	-17.62	
2-Sep-08	08:00:00	-9.60			-24.35	-17.37	
2-Sep-08	20:00:00	-11.17			-25.38	-18.56	
3-Sep-08	08:00:00	-10.65			-25.45	-18.44	
3-Sep-08	20:00:00	-12.35			-26.52	-19.59	
4-Sep-08	08:00:00	-11.96			-26.69	-19.73	
4-Sep-08	20:00:00	-13.61			-27.86	-20.70	
5-Sep-08	08:00:00	-12.63			-27.85	-20.49	
5-Sep-08	20:00:00	1.27			-21.11	-8.29	
6-Sep-08	08:00:00	6.64			13.15	10.47	
6-Sep-08	20:00:00	8.11			8.58	7.03	
7-Sep-08	08:00:00	5.87			7.07	5.44	
7-Sep-08	20:00:00	5.01			5.76	4.48	
8-Sep-08	08:00:00	4.84			4.53	3.71	
8-Sep-08	20:00:00	4.07			3.72	2.28	
9-Sep-08	08:00:00	4.16			3.15	1.69	
9-Sep-08	20:00:00	6.01			6.21	4.33	
10-Sep-08	08:00:00	6.14			7.26	5.47	
10-Sep-08	20:00:00	6.47			7.33	5.55	
11-Sep-08	08:00:00	5.97			6.31	4.72	
11-Sep-08	20:00:00	5.63			5.44	4.23	
12-Sep-08	08:00:00	5.51			4.82	3.83	
12-Sep-08	20:00:00	5.20			4.16	3.16	
13-Sep-08	08:00:00	4.98			3.81	2.55	
13-Sep-08	20:00:00	4.38			3.46	1.15	
14-Sep-08	08:00:00	4.30			3.12	0.81	
14-Sep-08	20:00:00	3.50			2.81	-1.60	
15-Sep-08	08:00:00	3.49			2.53	-1.73	
15-Sep-08	20:00:00	2.32			2.46	-4.16	
16-Sep-08	08:00:00	2.67			2.27	-4.20	
16-Sep-08	20:00:00	3.85			2.93	-0.65	

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Cox AW7	Cox MW8	Cox MW9	Cox AW10	Cox AW11	Cox AW12
17-Sep-08	08:00:00	5.46			4.13	2.93	
17-Sep-08	20:00:00	4.52			3.51	0.95	
18-Sep-08	08:00:00	3.84			3.08	-0.24	
18-Sep-08	20:00:00	2.78			2.81	-3.00	
19-Sep-08	08:00:00	2.49			2.46	-3.69	
19-Sep-08	20:00:00	1.65			2.15	-5.82	
20-Sep-08	08:00:00	1.75			2.02	-5.73	
20-Sep-08	20:00:00	1.04			1.83	-7.21	
21-Sep-08	08:00:00	1.03			1.84	-7.07	
21-Sep-08	20:00:00	0.60			1.74	-8.02	
22-Sep-08	08:00:00	0.80	-8.00	4.00	1.80	-6.94	
22-Sep-08	20:00:00	-0.39			1.47	-9.35	-22.64
23-Sep-08	08:00:00	-0.34			1.33	-8.60	-23.01
23-Sep-08	20:00:00	-1.23			0.32	-10.23	-23.49
24-Sep-08	08:00:00	-1.11			-1.16	-9.51	-23.85
24-Sep-08	20:00:00	-1.95			-4.13	-11.09	-24.27
25-Sep-08	08:00:00	1.72			-0.75	-4.25	-24.31
25-Sep-08	20:00:00	4.49			3.70	2.76	-22.26
26-Sep-08	08:00:00	5.89			7.83	5.92	4.16
26-Sep-08	20:00:00	5.72			4.98	3.97	4.23
27-Sep-08	08:00:00	6.06			6.32	4.64	3.55
27-Sep-08	20:00:00	5.56			4.87	3.85	1.19
28-Sep-08	08:00:00	5.46			4.24	3.39	-0.73
28-Sep-08	20:00:00	5.17			3.77	2.37	-4.71
29-Sep-08	08:00:00	4.88			3.27	1.77	-10.69
29-Sep-08	20:00:00	4.35			3.04	0.46	-13.38
30-Sep-08	08:00:00	4.32			2.87	0.33	-14.59
30-Sep-08	20:00:00	4.34			3.02	0.15	-15.38
1-Oct-08	08:00:00	4.23			2.98	-0.10	-16.06
1-Oct-08	20:00:00	3.98			3.04	0.49	-16.65
2-Oct-08	08:00:00	3.50			3.91	0.10	-17.41
2-Oct-08	20:00:00	2.71			3.32	-1.68	-18.17
3-Oct-08	08:00:00	2.88			3.71	1.18	-18.48
3-Oct-08	20:00:00	2.07			2.41	-0.95	-19.22
4-Oct-08	08:00:00	1.81			2.12	-2.07	-19.90
4-Oct-08	20:00:00	1.22			1.93	-3.81	-20.56
5-Oct-08	08:00:00	1.13			1.64	-4.07	-20.97
5-Oct-08	20:00:00	0.61			1.33	-5.51	-21.46
6-Oct-08	08:00:00	0.58			1.07	-5.64	-21.89
6-Oct-08	20:00:00	-0.29			-0.16	-7.35	-22.47
7-Oct-08	08:00:00	-0.32			-1.61	-7.21	-23.00
7-Oct-08	20:00:00	-0.77			-4.01	-8.29	-23.28
8-Oct-08	08:00:00	-0.71			-5.32	-7.45	-23.52
8-Oct-08	20:00:00	-1.12			-6.79	-8.61	-23.81
9-Oct-08	08:00:00	-0.88			-7.15	-7.22	-24.09
9-Oct-08	20:00:00	-1.36			-8.03	-8.44	-24.52
10-Oct-08	08:00:00	-1.22			-8.33	-7.54	-24.87
10-Oct-08	20:00:00	-1.39			-8.95	-8.27	-25.14
11-Oct-08	08:00:00	-1.28			-9.20	-7.66	-25.42
11-Oct-08	20:00:00	-1.95			-10.26	-9.52	-25.75
12-Oct-08	08:00:00	-2.02			-10.45	-9.05	-26.04
12-Oct-08	20:00:00	-2.93			-11.51	-10.64	-26.40

Date	Time						
dd-mmm-yyyy	hh:mm:ss	Cox AW7	Cox MW8	Cox MW9	Cox AW10	Cox AW11	Cox AW12
13-Oct-08	08:00:00	-2.82			-11.34	-9.47	-26.58
13-Oct-08	20:00:00	-3.34			-12.02	-10.61	-26.70
14-Oct-08	08:00:00	-3.36			-11.98	-9.61	-26.89
14-Oct-08	20:00:00	-4.27			-12.88	-11.09	-27.09
15-Oct-08	08:00:00	-4.17			-12.86	-10.11	-27.36
15-Oct-08	20:00:00	-4.86			-13.68	-11.49	-27.65
16-Oct-08	08:00:00	-4.46			-13.56	-10.28	-27.88
16-Oct-08	20:00:00	-5.29			-14.40	-11.78	-28.12
17-Oct-08	08:00:00	-4.43			-14.00	-10.26	-28.40
17-Oct-08	20:00:00	0.76			-5.21	-1.55	-28.35
18-Oct-08	08:00:00	4.86			6.21	3.66	-19.33
18-Oct-08	20:00:00	4.16			4.44	3.38	-20.68
19-Oct-08	08:00:00	3.44			3.10	2.01	-21.62
19-Oct-08	20:00:00	2.88			2.51	0.01	-22.53
20-Oct-08	08:00:00	2.39			2.21	-1.22	-23.00
20-Oct-08	20:00:00	2.18			2.02	-2.53	-23.25
21-Oct-08	08:00:00	1.86			1.91	-3.13	-23.50
21-Oct-08	20:00:00	1.31			1.67	-4.85	-23.98
22-Oct-08	08:00:00	0.73			1.22	-5.94	-24.73
22-Oct-08	20:00:00	0.25			0.44	-7.32	-25.25
23-Oct-08	08:00:00	-0.05			-1.66	-7.74	-25.76
23-Oct-08	20:00:00	-0.15			-4.21	-8.02	-25.94
24-Oct-08	08:00:00	0.15			-5.54	-6.88	-25.97
24-Oct-08	20:00:00	2.92			-0.24	1.30	-25.52
25-Oct-08	08:00:00	3.51			2.98	1.70	-23.08
25-Oct-08	20:00:00	3.07			2.86	0.76	-22.96
26-Oct-08	08:00:00	2.40			2.50	-1.08	-23.54
26-Oct-08	20:00:00	1.89			2.11	-3.04	-24.00
27-Oct-08	08:00:00	1.80			1.88	-3.48	-24.12
27-Oct-08	20:00:00	1.03			1.55	-5.46	-24.85
28-Oct-08	08:00:00	0.78			1.19	-5.92	-25.18
28-Oct-08	20:00:00	0.03			0.31	-7.72	-25.87
29-Oct-08	08:00:00	-0.09			-1.88	-7.91	-26.20
29-Oct-08	20:00:00	-0.54			-4.73	-8.86	-26.55
30-Oct-08	08:00:00	-1.26			-6.92	-9.76	-27.31
30-Oct-08	20:00:00	-1.34			-8.05	-10.01	-27.66
31-Oct-08	08:00:00	-1.69			-8.82	-9.89	-27.93
31-Oct-08	20:00:00	-1.53			-9.24	-9.53	-27.78

Date	Time				
dd-mmm-yyyy	hh:mm:ss	Ref AW1	Ref MW2	Ref AW3	Ref MW4
01-Jan-2008	08:00:00			-7.66	
01-Jan-2008	20:00:00			-8.50	
02-Jan-2008	08:00:00			-9.10	
02-Jan-2008	20:00:00			-9.62	
03-Jan-2008	08:00:00			-10.14	
03-Jan-2008	20:00:00			-10.30	
04-Jan-2008	08:00:00			-10.49	
04-Jan-2008	20:00:00			-10.38	
05-Jan-2008	08:00:00			-10.49	
05-Jan-2008	20:00:00			-10.47	
06-Jan-2008	08:00:00			-10.55	
06-Jan-2008	20:00:00			-10.65	
07-Jan-2008	08:00:00			-10.78	
07-Jan-2008	20:00:00			-10.81	
08-Jan-2008	08:00:00			-10.87	
08-Jan-2008	20:00:00			-10.77	
09-Jan-2008	08:00:00			-10.74	
09-Jan-2008	20:00:00			-10.95	
10-Jan-2008	08:00:00			-11.08	
10-Jan-2008	20:00:00			-10.86	
11-Jan-2008	08:00:00			-8.84	
11-Jan-2008	20:00:00			-9.32	
12-Jan-2008	08:00:00			-10.21	
12-Jan-2008	20:00:00			-10.72	
13-Jan-2008	08:00:00			-10.90	
13-Jan-2008	20:00:00			-11.01	
14-Jan-2008	08:00:00			-11.17	
14-Jan-2008	20:00:00			-11.38	
15-Jan-2008	08:00:00			-11.52	
15-Jan-2008	20:00:00			-11.73	
16-Jan-2008	08:00:00			-11.97	
16-Jan-2008	20:00:00			-11.95	
17-Jan-2008	08:00:00			-11.30	
17-Jan-2008	20:00:00			-7.05	
18-Jan-2008	08:00:00			-8.73	
18-Jan-2008	20:00:00			-9.67	
19-Jan-2008	08:00:00			-10.15	
19-Jan-2008	20:00:00			-4.34	
20-Jan-2008	08:00:00			-5.74	
20-Jan-2008	20:00:00			-7.48	
21-Jan-2008	08:00:00			-8.67	
21-Jan-2008	20:00:00			-9.16	
22-Jan-2008	08:00:00			-9.40	
22-Jan-2008	20:00:00			-9.46	
23-Jan-2008	08:00:00			-9.19	
23-Jan-2008	20:00:00			-9.65	
24-Jan-2008	08:00:00			-9.89	
24-Jan-2008	20:00:00			-10.28	
25-Jan-2008	08:00:00			-10.83	
25-Jan-2008	20:00:00			-10.88	
26-Jan-2008	08:00:00			-10.86	
26-Jan-2008	20:00:00			-10.75	

Date	Time				
dd-mmm-yyyy	hh:mm:ss	Ref AW1	Ref MW2	Ref AW3	Ref MW4
27-Jan-2008	08:00:00			-11.01	
27-Jan-2008	20:00:00			-11.14	
28-Jan-2008	08:00:00			-11.40	
28-Jan-2008	20:00:00			-11.37	
29-Jan-2008	08:00:00			-11.33	
29-Jan-2008	20:00:00			-11.26	
30-Jan-2008	08:00:00			-9.72	
30-Jan-2008	20:00:00			-10.82	
31-Jan-2008	08:00:00			-11.51	
31-Jan-2008	20:00:00			-11.51	
01-Feb-2008	08:00:00			-10.81	
01-Feb-2008	20:00:00			-3.87	
02-Feb-2008	08:00:00			-6.47	
02-Feb-2008	20:00:00			-7.65	
03-Feb-2008	08:00:00			-8.57	
03-Feb-2008	20:00:00			-9.17	
04-Feb-2008	08:00:00			-9.65	
04-Feb-2008	20:00:00			-9.91	
05-Feb-2008	08:00:00			-10.09	
05-Feb-2008	20:00:00			-10.19	
06-Feb-2008	08:00:00			-10.33	
06-Feb-2008	20:00:00			-10.40	
07-Feb-2008	08:00:00			-10.65	
07-Feb-2008	20:00:00			-10.98	
08-Feb-2008	08:00:00			-11.15	
08-Feb-2008	20:00:00			-11.39	
09-Feb-2008	08:00:00			-11.45	
09-Feb-2008	20:00:00			-11.43	
10-Feb-2008	08:00:00			-11.68	
10-Feb-2008	20:00:00			-11.77	
11-Feb-2008	08:00:00			-12.17	
11-Feb-2008	20:00:00			-12.04	
12-Feb-2008	08:00:00			-12.02	
12-Feb-2008	20:00:00			-11.55	
13-Feb-2008	08:00:00			-3.75	
13-Feb-2008	20:00:00			-3.04	
14-Feb-2008	08:00:00			-5.44	
14-Feb-2008	20:00:00			-7.11	
15-Feb-2008	08:00:00			-8.21	
15-Feb-2008	20:00:00			-8.82	
16-Feb-2008	08:00:00			-9.34	
16-Feb-2008	20:00:00			-9.76	
17-Feb-2008	08:00:00			-10.00	
17-Feb-2008	20:00:00			-9.90	
18-Feb-2008	08:00:00			-0.56	
18-Feb-2008	20:00:00			-2.29	
19-Feb-2008	08:00:00			-4.80	
19-Feb-2008	20:00:00			-6.53	
20-Feb-08	08:00:00			-7.67	
20-Feb-08	20:00:00			-8.23	
21-Feb-08	08:00:00			-8.98	
21-Feb-08	20:00:00			-9.24	

Date	Time				
dd-mmm-yyyy	hh:mm:ss	Ref AW1	Ref MW2	Ref AW3	Ref MW4
22-Feb-08	08:00:00			-4.43	
22-Feb-08	20:00:00			-2.75	
23-Feb-08	08:00:00			-4.80	
23-Feb-08	20:00:00			-6.25	
24-Feb-08	08:00:00			-7.31	
24-Feb-08	20:00:00			-7.81	
25-Feb-08	08:00:00			-8.25	
25-Feb-08	20:00:00			-8.56	
26-Feb-08	08:00:00			-8.64	
26-Feb-08	20:00:00			-5.38	
27-Feb-08	08:00:00			-6.85	
27-Feb-08	20:00:00			-7.92	
28-Feb-08	08:00:00			-8.73	
28-Feb-08	20:00:00			-9.11	
29-Feb-08				-9.43	
29-Feb-08				-9.35	
1-Mar-08	08:00:00			-9.33	
1-Mar-08	20:00:00			-9.55	
2-Mar-08	08:00:00			-9.86	
2-Mar-08	20:00:00			-9.94	
3-Mar-08	08:00:00	-15.00	-12.00	-10.00	-11.50
3-Mar-08	20:00:00	-14.73		-9.81	
4-Mar-08	08:00:00	-14.59		-9.75	
4-Mar-08	20:00:00	-13.69		-8.93	
5-Mar-08	08:00:00	-6.53		-1.84	
5-Mar-08	20:00:00	-8.94		-4.33	
6-Mar-08	08:00:00	-10.65		-6.12	
6-Mar-08	20:00:00	-11.61		-7.16	
7-Mar-08	08:00:00	-12.20		-7.83	
7-Mar-08	20:00:00	-5.18		-0.89	
8-Mar-08	08:00:00	-5.80		-1.59	
8-Mar-08	20:00:00	-7.80		-3.67	
9-Mar-08	08:00:00	-9.67		-5.61	
9-Mar-08	20:00:00	-10.67		-6.69	
10-Mar-08	08:00:00	-11.37		-7.47	
10-Mar-08	20:00:00	-11.61		-7.79	
11-Mar-08	08:00:00	-11.76		-8.02	
11-Mar-08	20:00:00	-12.47		-8.13	
12-Mar-08	08:00:00	-13.32		-8.31	
12-Mar-08	20:00:00	-13.65		-8.65	
13-Mar-08	08:00:00	-13.88		-8.90	
13-Mar-08	20:00:00	-13.98		-8.97	
14-Mar-08	08:00:00	-13.92		-8.97	
14-Mar-08	20:00:00	-13.94		-9.03	
15-Mar-08	08:00:00	-14.17		-9.22	
15-Mar-08	20:00:00	-3.97		-1.22	
16-Mar-08	08:00:00	-4.60		-2.08	
16-Mar-08	20:00:00	-7.85		-4.36	
17-Mar-08	08:00:00	-10.69		-6.00	
17-Mar-08	20:00:00	-12.10		-6.94	
18-Mar-08	08:00:00	-12.73		-7.43	
18-Mar-08	20:00:00	-12.82		-7.64	

Date	Time				
dd-mmm-yyyy	hh:mm:ss	Ref AW1	Ref MW2	Ref AW3	Ref MW4
19-Mar-08	08:00:00	-12.92		-7.77	
19-Mar-08	20:00:00	-12.82		-7.81	
20-Mar-08	08:00:00	-13.45		-8.11	
20-Mar-08	20:00:00	-14.05		-8.74	
21-Mar-08	08:00:00	-14.28		-9.03	
21-Mar-08	20:00:00	-14.18		-9.01	
22-Mar-08	08:00:00	-14.06		-8.94	
22-Mar-08	20:00:00	-14.26		-9.07	
23-Mar-08	08:00:00	-14.63		-9.39	
23-Mar-08	20:00:00	-14.71		-9.49	
24-Mar-08	08:00:00	-14.73		-9.53	
24-Mar-08	20:00:00	-14.89		-9.60	
25-Mar-08	08:00:00	-15.09		-9.78	
25-Mar-08	20:00:00	-14.94		-9.74	
26-Mar-08	08:00:00	-14.94	-12.00	-9.73	-11.25
26-Mar-08	20:00:00	-14.99		-9.68	
27-Mar-08	08:00:00	-14.93		-9.65	
27-Mar-08	20:00:00	-15.06		-9.73	
28-Mar-08	08:00:00	-15.13		-9.75	
28-Mar-08	20:00:00	-15.35		-9.91	
29-Mar-08	08:00:00	-15.69		-10.16	
29-Mar-08	20:00:00	-15.70		-10.15	
30-Mar-08	08:00:00	-15.63		-10.07	
30-Mar-08	20:00:00	-13.23		-7.82	
31-Mar-08	08:00:00	-12.47		-6.94	
31-Mar-08	20:00:00	-10.82		-5.47	
1-Apr-08	08:00:00	-12.04		-6.24	
1-Apr-08	20:00:00	-12.95		-6.83	
2-Apr-08	08:00:00	-13.67		-7.60	
2-Apr-08	20:00:00	-14.36		-8.39	
3-Apr-08	08:00:00	-14.60		-8.79	
3-Apr-08	20:00:00	-14.20		-8.54	
4-Apr-08	08:00:00	-13.25		-7.63	
4-Apr-08	20:00:00	-13.69		-8.04	
5-Apr-08	08:00:00	-4.15		-1.11	
5-Apr-08	20:00:00	4.86		5.86	
6-Apr-08	08:00:00	-3.03		-0.71	
6-Apr-08	20:00:00	-5.04		-2.20	
7-Apr-08	08:00:00	-7.00		-3.38	
7-Apr-08	20:00:00	-8.53		-4.20	
8-Apr-08	08:00:00	-9.72		-4.81	
8-Apr-08	20:00:00	-10.67		-5.33	
9-Apr-08	08:00:00	-11.23		-5.64	
9-Apr-08	20:00:00	-11.88		-6.07	
10-Apr-08	08:00:00	-12.16		-6.22	
10-Apr-08	20:00:00	-12.68		-6.55	
11-Apr-08	08:00:00	-12.76		-6.57	
11-Apr-08	20:00:00	-13.34		-7.03	
12-Apr-08	08:00:00	-13.24		-6.97	
12-Apr-08	20:00:00	-7.24		-3.31	
13-Apr-08	08:00:00	-9.55		-4.57	
13-Apr-08	20:00:00	-11.80		-5.84	

Date	Time				
dd-mmm-yyyy	hh:mm:ss	Ref AW1	Ref MW2	Ref AW3	Ref MW4
14-Apr-08	08:00:00	-12.74		-6.38	
14-Apr-08	20:00:00	-13.37		-6.85	
15-Apr-08	08:00:00	-13.52		-6.98	
15-Apr-08	20:00:00	-14.18		-7.59	
16-Apr-08	08:00:00	-14.16		-7.62	
16-Apr-08	20:00:00	-14.51		-7.94	
17-Apr-08	08:00:00	-14.23		-7.73	
17-Apr-08	20:00:00	-14.90		-8.29	
18-Apr-08	08:00:00	-14.69		-8.09	
18-Apr-08	20:00:00	-15.61		-9.01	
19-Apr-08	08:00:00	-15.20		-8.61	
19-Apr-08	20:00:00	-16.09		-9.48	
20-Apr-08	08:00:00	-14.04		-7.39	
20-Apr-08	20:00:00	-15.54		-8.76	
21-Apr-08	08:00:00	-15.17		-8.54	
21-Apr-08	20:00:00	-15.64		-9.02	
22-Apr-08	08:00:00	-14.99	-12.25	-8.35	-11.00
22-Apr-08	20:00:00	-16.03		-9.28	
23-Apr-08	08:00:00	-15.65		-8.92	
23-Apr-08	20:00:00	-16.74		-9.93	
24-Apr-08	08:00:00	-16.20		-9.45	
24-Apr-08	20:00:00	-17.34		-10.58	
25-Apr-08	08:00:00	-16.57		-9.94	
25-Apr-08	20:00:00	-17.96		-11.26	
26-Apr-08	08:00:00	-17.10		-10.50	
26-Apr-08	20:00:00	-18.84		-12.05	
27-Apr-08	08:00:00	-17.77		-11.19	
27-Apr-08	20:00:00	-10.80		-5.42	
28-Apr-08	08:00:00	-5.54		-1.94	
28-Apr-08	20:00:00	-5.25		-1.73	
29-Apr-08	08:00:00	-6.06		-2.49	
29-Apr-08	20:00:00	-9.99		-4.88	
30-Apr-08	08:00:00	-12.04		-5.97	
30-Apr-08	20:00:00	-13.92		-7.28	
1-May-08	08:00:00	-14.29		-7.49	
1-May-08	20:00:00	-15.66		-8.80	
2-May-08	08:00:00	-15.39		-8.66	
2-May-08	20:00:00	-17.14		-10.24	
3-May-08	08:00:00	-16.16		-9.57	
3-May-08	20:00:00	-17.93		-11.21	
4-May-08	08:00:00	-16.92		-10.41	
4-May-08	20:00:00	-18.76		-12.07	
5-May-08	08:00:00	-17.42		-10.98	
5-May-08	20:00:00	-18.98		-12.48	
6-May-08	08:00:00	-17.81		-11.47	
6-May-08	20:00:00	-19.50		-12.89	
7-May-08	08:00:00	-18.23		-11.90	
7-May-08	20:00:00	-20.56		-13.96	
8-May-08	08:00:00	-19.01		-12.68	
8-May-08	20:00:00	-19.52		-13.18	
9-May-08	08:00:00	-16.01		-9.78	
9-May-08	20:00:00	-19.86		-13.07	

Date	Time				
dd-mmm-yyyy	hh:mm:ss	Ref AW1	Ref MW2	Ref AW3	Ref MW4
10-May-08	08:00:00	-18.79		-12.34	
10-May-08	20:00:00	-21.77		-14.89	
11-May-08	08:00:00	-19.81		-13.53	
11-May-08	20:00:00	-16.55		-10.18	
12-May-08	08:00:00	-16.65		-9.96	
12-May-08	20:00:00	-18.84		-11.80	
13-May-08	08:00:00	-18.80		-11.94	
13-May-08	20:00:00	-21.27		-14.35	
14-May-08	08:00:00	-19.88		-13.39	
14-May-08	20:00:00	-21.76		-15.12	
15-May-08	08:00:00	-20.27		-14.02	
15-May-08	20:00:00	-21.80		-15.28	
16-May-08	08:00:00	-18.08		-11.73	
16-May-08	20:00:00	-20.81		-14.18	
17-May-08	08:00:00	-20.38		-13.95	
17-May-08	20:00:00	-22.89		-16.38	
18-May-08	08:00:00	-21.15		-14.98	
18-May-08	20:00:00	-22.75		-16.10	
19-May-08	08:00:00	-20.75		-14.44	
19-May-08	20:00:00	-23.86		-17.40	
20-May-08	08:00:00	-21.94		-15.94	
20-May-08	20:00:00	-20.67		-14.41	
21-May-08	08:00:00	-19.58		-13.63	
21-May-08	20:00:00	-22.42		-16.17	
22-May-08	08:00:00	-21.50		-15.50	
22-May-08	20:00:00	-24.51		-18.59	
23-May-08	08:00:00	-23.05		-17.36	
23-May-08	20:00:00	-25.09		-19.55	
24-May-08	08:00:00	-23.41		-18.07	
24-May-08	20:00:00	-23.87		-18.44	
25-May-08	08:00:00	-22.52		-17.25	
25-May-08	20:00:00	-25.31		-20.10	
26-May-08	08:00:00	-23.95		-18.68	
26-May-08	20:00:00	-26.44		-21.37	
27-May-08	08:00:00	-25.37		-19.91	
27-May-08	20:00:00	-27.63		-22.51	
28-May-08	08:00:00	-27.94		-21.27	
28-May-08	20:00:00	-20.29		-15.29	
29-May-08	08:00:00	-19.92	-25.50	-14.78	-23.50
29-May-08	20:00:00	-23.23		-18.16	
30-May-08	08:00:00	-22.38		-17.39	
30-May-08	20:00:00	-25.26		-20.45	
31-May-08	08:00:00	-23.71		-19.06	
31-May-08	20:00:00	-26.83		-22.48	
1-Jun-08	08:00:00	-27.17		-21.13	
1-Jun-08	20:00:00	-29.28		-24.18	
2-Jun-08	08:00:00	-24.09		-18.82	
2-Jun-08	20:00:00	-27.16		-22.68	
3-Jun-08	08:00:00	-26.54		-21.42	
3-Jun-08	20:00:00	-28.96		-24.35	
4-Jun-08	08:00:00	-29.63		-23.13	
4-Jun-08	20:00:00	-31.93		-26.27	

Date	Time				
dd-mmm-yyyy	hh:mm:ss	Ref AW1	Ref MW2	Ref AW3	Ref MW4
5-Jun-08	08:00:00	-32.15		-25.21	
5-Jun-08	20:00:00	-34.95		-28.07	
6-Jun-08	08:00:00	-35.04		-26.97	
6-Jun-08	20:00:00	-37.75		-29.84	
7-Jun-08	08:00:00	-37.61		-28.80	
7-Jun-08	20:00:00	-40.42		-31.58	
8-Jun-08	08:00:00	-40.22		-30.61	
8-Jun-08	20:00:00	-43.00		-33.18	
9-Jun-08	08:00:00	-42.88		-32.48	
9-Jun-08	20:00:00	-45.61		-34.71	
10-Jun-08	08:00:00	-45.63		-34.32	
10-Jun-08	20:00:00	-48.09		-36.20	
11-Jun-08	08:00:00	-48.19		-35.81	
11-Jun-08	20:00:00	-49.92		-37.26	
12-Jun-08	08:00:00	-49.62		-35.98	
12-Jun-08	20:00:00	-51.09		-37.82	
13-Jun-08	08:00:00	-51.33		-37.39	
13-Jun-08	20:00:00	-52.68		-38.87	
14-Jun-08	08:00:00	-52.72		-38.34	
14-Jun-08	20:00:00	-54.05		-39.72	
15-Jun-08	08:00:00	-53.99		-38.35	
15-Jun-08	20:00:00	-54.23		-37.38	
16-Jun-08	08:00:00	-53.72		-36.51	
16-Jun-08	20:00:00	-55.40		-39.59	
17-Jun-08	08:00:00	-55.58		-39.19	
17-Jun-08	20:00:00	-56.87		-40.89	
18-Jun-08	08:00:00	-57.15		-40.58	
18-Jun-08	20:00:00	-58.23		-41.89	
19-Jun-08	08:00:00	-58.61		-41.49	
19-Jun-08	20:00:00	-59.54		-42.74	
20-Jun-08	08:00:00	-59.93		-42.33	
20-Jun-08	20:00:00	-60.63		-43.23	
21-Jun-08	08:00:00	-60.89		-42.69	
21-Jun-08	20:00:00	-61.29		-43.55	
22-Jun-08	08:00:00	-61.60		-43.03	
22-Jun-08	20:00:00	-62.24		-44.14	
23-Jun-08	08:00:00	-62.54		-43.69	
23-Jun-08	20:00:00	-63.15		-44.73	
24-Jun-08	08:00:00	-63.65	-36.50	-44.55	-37.00
24-Jun-08	20:00:00	-67.97		-45.55	
25-Jun-08	08:00:00	-67.98		-45.22	
25-Jun-08	20:00:00	-67.99		-46.16	
26-Jun-08	08:00:00	-67.98		-45.83	
26-Jun-08	20:00:00	-67.98		-46.70	
27-Jun-08	08:00:00	-67.99		-46.58	
27-Jun-08	20:00:00	-67.98		-47.39	
28-Jun-08	08:00:00	-67.98		-47.19	
28-Jun-08	20:00:00	-67.98		-47.94	
29-Jun-08	08:00:00	-67.98		-47.89	
29-Jun-08	20:00:00	-67.98		-48.47	
30-Jun-08	08:00:00	-67.99		-48.30	
30-Jun-08	20:00:00	-67.98		-48.94	

Date	Time				
dd-mmm-yyyy	hh:mm:ss	Ref AW1	Ref MW2	Ref AW3	Ref MW4
1-Jul-08	08:00:00	-67.99		-49.05	
1-Jul-08	20:00:00	-67.99		-49.63	
2-Jul-08	08:00:00	-68.00		-49.67	
2-Jul-08	20:00:00	-67.98		-50.13	
3-Jul-08	08:00:00	-67.98		-50.21	
3-Jul-08	20:00:00	-68.00		-50.66	
4-Jul-08	08:00:00	-67.99		-50.79	
4-Jul-08	20:00:00	-67.99		-51.21	
5-Jul-08	08:00:00	-67.98		-51.24	
5-Jul-08	20:00:00	-67.99		-51.13	
6-Jul-08	08:00:00	-67.99		-51.12	
6-Jul-08	20:00:00	-68.00		-50.64	
7-Jul-08	08:00:00	-67.99		-47.83	
7-Jul-08	20:00:00	-67.98		-47.23	
8-Jul-08	08:00:00	-67.99		-46.69	
8-Jul-08	20:00:00	-67.99		-43.69	
9-Jul-08	08:00:00	-67.99		-38.88	
9-Jul-08	20:00:00	-68.00		-35.57	
10-Jul-08	08:00:00	-68.00		-29.68	
10-Jul-08	20:00:00	-68.00		-28.97	
11-Jul-08	08:00:00	-67.99		-27.76	
11-Jul-08	20:00:00	-67.99		-28.19	
12-Jul-08	08:00:00	-68.00		-28.20	
12-Jul-08	20:00:00	-67.99		-30.61	
13-Jul-08	08:00:00	-68.00		-30.96	
13-Jul-08	20:00:00	-68.00		-34.03	
14-Jul-08	08:00:00	-67.99		-34.36	
14-Jul-08	20:00:00	-68.01		-34.93	
15-Jul-08	08:00:00	-67.99		-34.89	
15-Jul-08	20:00:00	-67.99		-37.01	
16-Jul-08	08:00:00	-68.00		-36.94	
16-Jul-08	20:00:00	-68.00		-38.86	
17-Jul-08	08:00:00	-68.00		-38.62	
17-Jul-08	20:00:00	-68.00		-40.22	
18-Jul-08	08:00:00	-67.99		-40.10	
18-Jul-08	20:00:00	-68.00		-39.92	
19-Jul-08	08:00:00	-67.99		-33.98	
19-Jul-08	20:00:00	-68.00		-29.29	
20-Jul-08	08:00:00	-68.01		-26.42	
20-Jul-08	20:00:00	-67.99		-28.89	
21-Jul-08	08:00:00	-67.99		-28.91	
21-Jul-08	20:00:00	-68.00		-33.99	
22-Jul-08	08:00:00	-67.99		-34.30	
22-Jul-08	20:00:00	-68.00		-37.06	
23-Jul-08	08:00:00	-68.00		-35.98	
23-Jul-08	20:00:00	-68.00		-33.28	
24-Jul-08	08:00:00	-68.00		-0.01	
24-Jul-08	20:00:00	-67.99		-8.10	
25-Jul-08	08:00:00	-68.00		-11.54	
25-Jul-08	20:00:00	-68.00		-14.09	
26-Jul-08	08:00:00	-67.99		-14.35	
26-Jul-08	20:00:00	-68.00		-16.17	

Date	Time				
dd-mmm-yyyy	hh:mm:ss	Ref AW1	Ref MW2	Ref AW3	Ref MW4
27-Jul-08	08:00:00	-68.00		-15.75	
27-Jul-08	20:00:00	-68.00		-17.77	
28-Jul-08	08:00:00	-68.01		-17.13	
28-Jul-08	20:00:00	-67.99		-20.08	
29-Jul-08	08:00:00	-68.00		-18.99	
29-Jul-08	20:00:00	-68.00		-21.92	
30-Jul-08	08:00:00	-68.00	-31.50	-20.97	-26.00
30-Jul-08	20:00:00	-29.27		-22.94	
31-Jul-08	08:00:00	-29.98		-22.49	
31-Jul-08	20:00:00	-32.19		-24.77	
1-Aug-08	08:00:00	-32.66		-24.36	
1-Aug-08	20:00:00	-35.19		-27.20	
2-Aug-08	08:00:00	-35.46		-26.47	
2-Aug-08	20:00:00	-38.14		-29.26	
3-Aug-08	08:00:00	-38.52		-28.64	
3-Aug-08	20:00:00	-41.31		-31.46	
4-Aug-08	08:00:00	-41.36		-30.67	
4-Aug-08	20:00:00	-44.11		-33.35	
5-Aug-08	08:00:00	-44.20		-32.77	
5-Aug-08	20:00:00	-46.98		-35.16	
6-Aug-08	08:00:00	-47.18		-34.83	
6-Aug-08	20:00:00	-49.90		-36.96	
7-Aug-08	08:00:00	-50.14		-36.74	
7-Aug-08	20:00:00	-46.76		-33.14	
8-Aug-08	08:00:00	-28.88		-24.98	
8-Aug-08	20:00:00	-27.22		-24.92	
9-Aug-08	08:00:00	-26.39		-23.96	
9-Aug-08	20:00:00	-29.58		-27.49	
10-Aug-08	08:00:00	-31.70		-27.26	
10-Aug-08	20:00:00	-33.99		-29.57	
11-Aug-08	08:00:00	-17.66		-14.54	
11-Aug-08	20:00:00	-21.56		-17.00	
12-Aug-08	08:00:00	-21.98		-17.28	
12-Aug-08	20:00:00	-24.45		-20.46	
13-Aug-08	08:00:00	-18.40		-17.06	
13-Aug-08	20:00:00	-13.90		-10.05	
14-Aug-08	08:00:00	-16.90		-12.21	
14-Aug-08	20:00:00	-19.54		-14.66	
15-Aug-08	08:00:00	-19.94		-14.94	
15-Aug-08	20:00:00	-13.34		-9.84	
16-Aug-08	08:00:00	-3.22		-0.99	
16-Aug-08	20:00:00	-9.92		-6.51	
17-Aug-08	08:00:00	-14.12		-9.07	
17-Aug-08	20:00:00	-15.81		-10.72	
18-Aug-08	08:00:00	-16.31		-11.34	
18-Aug-08	20:00:00	-18.54		-13.68	
19-Aug-08	08:00:00	-18.22		-13.43	
19-Aug-08	20:00:00	-20.45		-15.84	
20-Aug-08	08:00:00	-19.88		-15.09	
20-Aug-08	20:00:00	-21.74		-17.32	
21-Aug-08	08:00:00	-20.95		-16.27	
21-Aug-08	20:00:00	-22.86		-18.82	

Date	Time				
dd-mmm-yyyy	hh:mm:ss	Ref AW1	Ref MW2	Ref AW3	Ref MW4
22-Aug-08	08:00:00	-22.00		-17.54	
22-Aug-08	20:00:00	-24.13		-20.44	
23-Aug-08	08:00:00	-22.97		-18.79	
23-Aug-08	20:00:00	-24.62		-21.16	
24-Aug-08	08:00:00	-23.62		-19.63	
24-Aug-08	20:00:00	-25.32		-22.22	
25-Aug-08	08:00:00	-24.30		-20.52	
25-Aug-08	20:00:00	-25.13		-21.88	
26-Aug-08	08:00:00	-24.05		-20.37	
26-Aug-08	20:00:00	-23.07		-19.37	
27-Aug-08	08:00:00	-22.19		-18.15	
27-Aug-08	20:00:00	-13.92		-10.82	
28-Aug-08	08:00:00	-13.44		-10.17	
28-Aug-08	20:00:00	-16.68		-13.03	
29-Aug-08	08:00:00	-17.53	-22.00	-13.53	-20.00
29-Aug-08	20:00:00	-18.85		-14.70	
30-Aug-08	08:00:00	-18.62		-14.55	
30-Aug-08	20:00:00	-20.69		-16.61	
31-Aug-08	08:00:00	-20.29		-15.99	
31-Aug-08	20:00:00	-22.67		-18.71	
1-Sep-08	08:00:00	-17.98		-15.61	
1-Sep-08	20:00:00	-21.69		-19.23	
2-Sep-08	08:00:00	-21.25		-17.88	
2-Sep-08	20:00:00	-23.82		-20.96	
3-Sep-08	08:00:00	-22.99		-19.40	
3-Sep-08	20:00:00	-25.34		-22.69	
4-Sep-08	08:00:00	-24.56		-21.03	
4-Sep-08	20:00:00	-26.77		-24.29	
5-Sep-08	08:00:00	-25.77		-22.34	
5-Sep-08	20:00:00	-10.71		-9.06	
6-Sep-08	08:00:00	12.43		10.32	
6-Sep-08	20:00:00	-1.95		0.18	
7-Sep-08	08:00:00	-4.52		-2.41	
7-Sep-08	20:00:00	-7.82		-4.99	
8-Sep-08	08:00:00	-10.85		-6.08	
8-Sep-08	20:00:00	-13.90		-7.77	
9-Sep-08	08:00:00	-13.79		-7.97	
9-Sep-08	20:00:00	-6.41		-1.84	
10-Sep-08	08:00:00	-5.11		-2.23	
10-Sep-08	20:00:00	-4.74		-1.82	
11-Sep-08	08:00:00	-7.25		-3.61	
11-Sep-08	20:00:00	-10.31		-5.07	
12-Sep-08	08:00:00	-11.80		-5.80	
12-Sep-08	20:00:00	-13.73		-7.15	
13-Sep-08	08:00:00	-13.73		-7.34	
13-Sep-08	20:00:00	-15.54		-9.00	
14-Sep-08	08:00:00	-14.95		-8.77	
14-Sep-08	20:00:00	-16.75		-10.49	
15-Sep-08	08:00:00	-16.02		-9.98	
15-Sep-08	20:00:00	-17.47		-11.29	
16-Sep-08	08:00:00	-16.74		-10.77	
16-Sep-08	20:00:00	-15.53		-9.38	

Date	Time				
dd-mmm-yyyy	hh:mm:ss	Ref AW1	Ref MW2	Ref AW3	Ref MW4
17-Sep-08	08:00:00	-10.42		-5.16	
17-Sep-08	20:00:00	-13.72		-7.57	
18-Sep-08	08:00:00	-14.55		-8.20	
18-Sep-08	20:00:00	-16.67		-10.16	
19-Sep-08	08:00:00	-16.41		-10.16	
19-Sep-08	20:00:00	-17.81		-11.51	
20-Sep-08	08:00:00	-17.09		-11.06	
20-Sep-08	20:00:00	-17.95		-11.79	
21-Sep-08	08:00:00	-17.31		-11.28	
21-Sep-08	20:00:00	-18.10		-12.08	
22-Sep-08	08:00:00	-17.40	-18.75	-11.42	-17.50
22-Sep-08	20:00:00	-19.00		-12.95	
23-Sep-08	08:00:00	-18.17		-12.29	
23-Sep-08	20:00:00	-19.43		-13.41	
24-Sep-08	08:00:00	-18.65		-12.80	
24-Sep-08	20:00:00	-19.71		-14.06	
25-Sep-08	08:00:00	-16.16		-10.62	
25-Sep-08	20:00:00	-11.36		-6.91	
26-Sep-08	08:00:00	-1.92		0.51	
26-Sep-08	20:00:00	-5.55		-2.90	
27-Sep-08	08:00:00	-4.77		-1.92	
27-Sep-08	20:00:00	-8.11		-4.53	
28-Sep-08	08:00:00	-10.80		-5.63	
28-Sep-08	20:00:00	-13.02		-6.79	
29-Sep-08	08:00:00	-13.64		-7.18	
29-Sep-08	20:00:00	-15.12		-8.43	
30-Sep-08	08:00:00	-14.87		-8.49	
30-Sep-08	20:00:00	-15.00		-8.60	
1-Oct-08	08:00:00	-14.86		-8.52	
1-Oct-08	20:00:00	-15.12		-8.53	
2-Oct-08	08:00:00	-15.43		-8.99	
2-Oct-08	20:00:00	-16.88		-10.30	
3-Oct-08	08:00:00	-16.56		-9.98	
3-Oct-08	20:00:00	-17.88		-11.20	
4-Oct-08	08:00:00	-17.35		-10.69	
4-Oct-08	20:00:00	-18.58		-11.83	
5-Oct-08	08:00:00	-17.79		-11.17	
5-Oct-08	20:00:00	-18.85		-12.14	
6-Oct-08	08:00:00	-17.97		-11.37	
6-Oct-08	20:00:00	-19.31		-12.57	
7-Oct-08	08:00:00	-18.75		-11.88	
7-Oct-08	20:00:00	-19.68		-12.81	
8-Oct-08	08:00:00	-18.62		-11.89	
8-Oct-08	20:00:00	-19.59		-12.98	
9-Oct-08	08:00:00	-18.74		-12.03	
9-Oct-08	20:00:00	-19.41		-12.53	
10-Oct-08	08:00:00	-18.74		-11.84	
10-Oct-08	20:00:00	-19.09		-12.23	
11-Oct-08	08:00:00	-18.69		-11.80	
11-Oct-08	20:00:00	-19.78		-12.75	
12-Oct-08	08:00:00	-19.49		-12.24	
12-Oct-08	20:00:00	-20.67		-13.36	

Date	Time				
dd-mmm-yyyy	hh:mm:ss	Ref AW1	Ref MW2	Ref AW3	Ref MW4
13-Oct-08	08:00:00	-19.72		-12.43	
13-Oct-08	20:00:00	-20.58		-13.30	
14-Oct-08	08:00:00	-19.67		-12.43	
14-Oct-08	20:00:00	-20.85		-13.62	
15-Oct-08	08:00:00	-19.97		-12.79	
15-Oct-08	20:00:00	-21.28		-13.96	
16-Oct-08	08:00:00	-20.26		-13.05	
16-Oct-08	20:00:00	-21.57		-14.42	
17-Oct-08	08:00:00	-20.56		-13.29	
17-Oct-08	20:00:00	-15.74		-8.97	
18-Oct-08	08:00:00	-5.21		-0.84	
18-Oct-08	20:00:00	-8.21		-4.10	
19-Oct-08	08:00:00	-11.38		-5.88	
19-Oct-08	20:00:00	-14.01		-7.46	
20-Oct-08	08:00:00	-14.77		-7.94	
20-Oct-08	20:00:00	-15.53		-8.62	
21-Oct-08	08:00:00	-15.50		-8.86	
21-Oct-08	20:00:00	-16.36		-9.61	
22-Oct-08	08:00:00	-16.43		-9.77	
22-Oct-08	20:00:00	-17.05		-10.35	
23-Oct-08	08:00:00	-16.88		-10.35	
23-Oct-08	20:00:00	-17.06		-10.59	
24-Oct-08	08:00:00	-16.33		-10.32	
24-Oct-08	20:00:00	-13.36		-7.67	
25-Oct-08	08:00:00	-11.06		-6.33	
25-Oct-08	20:00:00	-12.96		-7.05	
26-Oct-08	08:00:00	-14.01		-7.95	
26-Oct-08	20:00:00	-15.44		-8.85	
27-Oct-08	08:00:00	-15.33		-8.89	
27-Oct-08	20:00:00	-16.25		-9.44	
28-Oct-08	08:00:00	-16.08		-9.58	
28-Oct-08	20:00:00	-17.06		-10.24	
29-Oct-08	08:00:00	-16.92		-10.27	
29-Oct-08	20:00:00	-17.45		-10.64	
30-Oct-08	08:00:00	-17.44		-10.73	
30-Oct-08	20:00:00	-17.30		-10.92	
31-Oct-08	08:00:00	-17.13		-10.72	
31-Oct-08	20:00:00	-17.56		-10.78	

Date	Time			On-site Raingauge	Smithfield Daily Rainfall	Smithfield Monthly Rainfall
dd-mmm-yyyy	hh:mm:ss	Ref AW5	CG			
01-Jan-2008	08:00:00				0.02	
01-Jan-2008	20:00:00					
02-Jan-2008	08:00:00				0	
02-Jan-2008	20:00:00					
03-Jan-2008	08:00:00				0	
03-Jan-2008	20:00:00					
04-Jan-2008	08:00:00				0	
04-Jan-2008	20:00:00					
05-Jan-2008	08:00:00				0	
05-Jan-2008	20:00:00					
06-Jan-2008	08:00:00				0	
06-Jan-2008	20:00:00					
07-Jan-2008	08:00:00				0	
07-Jan-2008	20:00:00					
08-Jan-2008	08:00:00				0	
08-Jan-2008	20:00:00					
09-Jan-2008	08:00:00				0	
09-Jan-2008	20:00:00					
10-Jan-2008	08:00:00				0.09	
10-Jan-2008	20:00:00					
11-Jan-2008	08:00:00				0.11	
11-Jan-2008	20:00:00					
12-Jan-2008	08:00:00				0.02	
12-Jan-2008	20:00:00					
13-Jan-2008	08:00:00				0	
13-Jan-2008	20:00:00					
14-Jan-2008	08:00:00				0	
14-Jan-2008	20:00:00					
15-Jan-2008	08:00:00				0	
15-Jan-2008	20:00:00					
16-Jan-2008	08:00:00				0	
16-Jan-2008	20:00:00					
17-Jan-2008	08:00:00				0.21	
17-Jan-2008	20:00:00					
18-Jan-2008	08:00:00				0.21	
18-Jan-2008	20:00:00					
19-Jan-2008	08:00:00				0.42	
19-Jan-2008	20:00:00					
20-Jan-2008	08:00:00				0.42	
20-Jan-2008	20:00:00					
21-Jan-2008	08:00:00				0	
21-Jan-2008	20:00:00					
22-Jan-2008	08:00:00				0.02	
22-Jan-2008	20:00:00					
23-Jan-2008	08:00:00				0.09	
23-Jan-2008	20:00:00					
24-Jan-2008	08:00:00				0.07	
24-Jan-2008	20:00:00					
25-Jan-2008	08:00:00				0	
25-Jan-2008	20:00:00					
26-Jan-2008	08:00:00				0	
26-Jan-2008	20:00:00					

Date	Time			On-site Raingauge	Smithfield Daily Rainfall	Smithfield Monthly Rainfall
dd-mmm-yyyy	hh:mm:ss	Ref AW5	CG			
27-Jan-2008	08:00:00				0	
27-Jan-2008	20:00:00					
28-Jan-2008	08:00:00				0	
28-Jan-2008	20:00:00					
29-Jan-2008	08:00:00				0	
29-Jan-2008	20:00:00					
30-Jan-2008	08:00:00				0.19	
30-Jan-2008	20:00:00					
31-Jan-2008	08:00:00				0.19	
31-Jan-2008	20:00:00					2.16
01-Feb-2008	08:00:00				0.1	
01-Feb-2008	20:00:00					
02-Feb-2008	08:00:00				1.17	
02-Feb-2008	20:00:00					
03-Feb-2008	08:00:00				0	
03-Feb-2008	20:00:00					
04-Feb-2008	08:00:00				0	
04-Feb-2008	20:00:00					
05-Feb-2008	08:00:00				0	
05-Feb-2008	20:00:00					
06-Feb-2008	08:00:00				0.01	
06-Feb-2008	20:00:00					
07-Feb-2008	08:00:00				0.01	
07-Feb-2008	20:00:00					
08-Feb-2008	08:00:00				0	
08-Feb-2008	20:00:00					
09-Feb-2008	08:00:00				0	
09-Feb-2008	20:00:00					
10-Feb-2008	08:00:00				0	
10-Feb-2008	20:00:00					
11-Feb-2008	08:00:00				0	
11-Feb-2008	20:00:00					
12-Feb-2008	08:00:00				0	
12-Feb-2008	20:00:00					
13-Feb-2008	08:00:00				0.9	
13-Feb-2008	20:00:00					
14-Feb-2008	08:00:00				0.9	
14-Feb-2008	20:00:00					
15-Feb-2008	08:00:00				0	
15-Feb-2008	20:00:00					
16-Feb-2008	08:00:00				0	
16-Feb-2008	20:00:00					
17-Feb-2008	08:00:00				0	
17-Feb-2008	20:00:00					
18-Feb-2008	08:00:00				0.63	
18-Feb-2008	20:00:00					
19-Feb-2008	08:00:00				0.63	
19-Feb-2008	20:00:00					
20-Feb-08	08:00:00				0	
20-Feb-08	20:00:00					
21-Feb-08	08:00:00				0.08	
21-Feb-08	20:00:00					

Date	Time			On-site Raingauge	Smithfield Daily Rainfall	Smithfield Monthly Rainfall
dd-mmm-yyyy	hh:mm:ss	Ref AW5	CG			
22-Feb-08	08:00:00				0.37	
22-Feb-08	20:00:00					
23-Feb-08	08:00:00				0.29	
23-Feb-08	20:00:00					
24-Feb-08	08:00:00				0.01	
24-Feb-08	20:00:00					
25-Feb-08	08:00:00				0.02	
25-Feb-08	20:00:00					
26-Feb-08	08:00:00				0.29	
26-Feb-08	20:00:00					
27-Feb-08	08:00:00				0.28	
27-Feb-08	20:00:00					
28-Feb-08	08:00:00				0	
28-Feb-08	20:00:00					
29-Feb-08					0.03	
29-Feb-08						5.7
1-Mar-08	08:00:00				0.08	
1-Mar-08	20:00:00					
2-Mar-08	08:00:00				0.05	
2-Mar-08	20:00:00					
3-Mar-08	08:00:00		0.00	10.50	0	
3-Mar-08	20:00:00	-64.00				
4-Mar-08	08:00:00	-64.01			0.26	
4-Mar-08	20:00:00	-63.96				
5-Mar-08	08:00:00	-64.03			0.77	
5-Mar-08	20:00:00	-64.00				
6-Mar-08	08:00:00	-64.10			0.51	
6-Mar-08	20:00:00	-64.00				
7-Mar-08	08:00:00	-64.01			0.82	
7-Mar-08	20:00:00	-64.01				
8-Mar-08	08:00:00	-64.01			0.94	
8-Mar-08	20:00:00	-63.99				
9-Mar-08	08:00:00	-63.99			0.12	
9-Mar-08	20:00:00	-63.99				
10-Mar-08	08:00:00	-63.99			0	
10-Mar-08	20:00:00	-63.99				
11-Mar-08	08:00:00	-63.98			0	
11-Mar-08	20:00:00	-17.50				
12-Mar-08	08:00:00	-18.08			0	
12-Mar-08	20:00:00	-18.91				
13-Mar-08	08:00:00	-19.77			0	
13-Mar-08	20:00:00	-20.02				
14-Mar-08	08:00:00	-20.11			0	
14-Mar-08	20:00:00	-20.16				
15-Mar-08	08:00:00	-20.47			0	
15-Mar-08	20:00:00	-10.88				
16-Mar-08	08:00:00	-12.88			0	
16-Mar-08	20:00:00	-14.33				
17-Mar-08	08:00:00	-15.70			0	
17-Mar-08	20:00:00	-16.71				
18-Mar-08	08:00:00	-17.57			0	
18-Mar-08	20:00:00	-17.92				

Date	Time			On-site	Smithfield	Smithfield
dd-mmm-yyyy	hh:mm:ss	Ref AW5	CG	Raingauge	Daily Rainfall	Monthly Rainfall
19-Mar-08	08:00:00	-18.15			0	
19-Mar-08	20:00:00	-18.13				
20-Mar-08	08:00:00	-18.70			0	
20-Mar-08	20:00:00	-19.40				
21-Mar-08	08:00:00	-19.96			0	
21-Mar-08	20:00:00	-20.10				
22-Mar-08	08:00:00	-20.24			0	
22-Mar-08	20:00:00	-20.45				
23-Mar-08	08:00:00	-20.96			0	
23-Mar-08	20:00:00	-21.13				
24-Mar-08	08:00:00	-21.30			0	
24-Mar-08	20:00:00	-21.50				
25-Mar-08	08:00:00	-21.79			0	
25-Mar-08	20:00:00	-21.74				
26-Mar-08	08:00:00	-21.83	0.00	3.50	0	
26-Mar-08	20:00:00	-21.82				
27-Mar-08	08:00:00	-21.83			0	
27-Mar-08	20:00:00	-21.94				
28-Mar-08	08:00:00	-22.02			0	
28-Mar-08	20:00:00	-22.23				
29-Mar-08	08:00:00	-22.64			0.02	
29-Mar-08	20:00:00	-22.75				
30-Mar-08	08:00:00	-22.72			0.06	
30-Mar-08	20:00:00	-19.80				
31-Mar-08	08:00:00	-18.19			0.44	
31-Mar-08	20:00:00	-15.33				4.07
1-Apr-08	08:00:00	-15.44			0.4	
1-Apr-08	20:00:00	-16.52				
2-Apr-08	08:00:00	-17.68			0.02	
2-Apr-08	20:00:00	-18.83				
3-Apr-08	08:00:00	-19.62			0.2	
3-Apr-08	20:00:00	-19.71				
4-Apr-08	08:00:00	-18.82			0.2	
4-Apr-08	20:00:00	-19.03				
5-Apr-08	08:00:00	-11.88			2.46	
5-Apr-08	20:00:00	-8.09				
6-Apr-08	08:00:00	-12.07			2.51	
6-Apr-08	20:00:00	-13.28				
7-Apr-08	08:00:00	-14.00			0.05	
7-Apr-08	20:00:00	-14.55				
8-Apr-08	08:00:00	-15.02			0	
8-Apr-08	20:00:00	-15.59				
9-Apr-08	08:00:00	-15.99			0.04	
9-Apr-08	20:00:00	-16.49				
10-Apr-08	08:00:00	-16.79			0.14	
10-Apr-08	20:00:00	-17.20				
11-Apr-08	08:00:00	-17.39			0.13	
11-Apr-08	20:00:00	-17.95				
12-Apr-08	08:00:00	-18.16			0.3	
12-Apr-08	20:00:00	-13.94				
13-Apr-08	08:00:00	-14.52			0.28	
13-Apr-08	20:00:00	-16.10				

Date	Time			On-site	Smithfield	Smithfield
dd-mmm-yyyy	hh:mm:ss	Ref AW5	CG	Raingauge	Daily Rainfall	Monthly Rainfall
14-Apr-08	08:00:00	-16.98			0.01	
14-Apr-08	20:00:00	-17.69				
15-Apr-08	08:00:00	-18.13			0	
15-Apr-08	20:00:00	-18.93				
16-Apr-08	08:00:00	-19.28			0.01	
16-Apr-08	20:00:00	-19.76				
17-Apr-08	08:00:00	-19.85			0.01	
17-Apr-08	20:00:00	-20.53				
18-Apr-08	08:00:00	-20.63			0	
18-Apr-08	20:00:00	-21.68				
19-Apr-08	08:00:00	-21.66			0	
19-Apr-08	20:00:00	-22.68				
20-Apr-08	08:00:00	-20.78			1.12	
20-Apr-08	20:00:00	-22.12				
21-Apr-08	08:00:00	-21.77			1.13	
21-Apr-08	20:00:00	-22.23				
22-Apr-08	08:00:00	-21.47	0.00	4.25	0.03	
22-Apr-08	20:00:00	-22.48				
23-Apr-08	08:00:00	-22.17			0.06	
23-Apr-08	20:00:00	-23.30				
24-Apr-08	08:00:00	-23.01			0.12	
24-Apr-08	20:00:00	-24.21				
25-Apr-08	08:00:00	-23.83			0.15	
25-Apr-08	20:00:00	-25.28				
26-Apr-08	08:00:00	-24.88			0.11	
26-Apr-08	20:00:00	-26.60				
27-Apr-08	08:00:00	-26.09			0.67	
27-Apr-08	20:00:00	-19.65				
28-Apr-08	08:00:00	-13.29			1.14	
28-Apr-08	20:00:00	-12.89				
29-Apr-08	08:00:00	-13.43			0.53	
29-Apr-08	20:00:00	-15.44				
30-Apr-08	08:00:00	-16.47			0.04	
30-Apr-08	20:00:00	-17.93				11.86
1-May-08	08:00:00	-18.57			0.06	
1-May-08	20:00:00	-20.12				
2-May-08	08:00:00	-20.47			0.08	
2-May-08	20:00:00	-22.38				
3-May-08	08:00:00	-22.37			0.08	
3-May-08	20:00:00	-24.49				
4-May-08	08:00:00	-24.28			0.18	
4-May-08	20:00:00	-26.23				
5-May-08	08:00:00	-25.50			0.21	
5-May-08	20:00:00	-27.12				
6-May-08	08:00:00	-26.48			0.19	
6-May-08	20:00:00	-28.02				
7-May-08	08:00:00	-27.26			0.26	
7-May-08	20:00:00	-29.36				
8-May-08	08:00:00	-28.58			0.16	
8-May-08	20:00:00	-29.17				
9-May-08	08:00:00	-25.80			0.34	
9-May-08	20:00:00	-28.95				

Date	Time			On-site	Smithfield	Smithfield
dd-mmm-yyyy	hh:mm:ss	Ref AW5	CG	Raingauge	Daily Rainfall	Monthly Rainfall
10-May-08	08:00:00	-28.13			0.62	
10-May-08	20:00:00	-30.71				
11-May-08	08:00:00	-29.71			0.59	
11-May-08	20:00:00	-25.32				
12-May-08	08:00:00	-24.33			0.33	
12-May-08	20:00:00	-26.33				
13-May-08	08:00:00	-26.38			0.1	
13-May-08	20:00:00	-29.16				
14-May-08	08:00:00	-28.67			0.14	
14-May-08	20:00:00	-30.80				
15-May-08	08:00:00	-30.04			0.28	
15-May-08	20:00:00	-31.39				
16-May-08	08:00:00	-27.87			0.41	
16-May-08	20:00:00	-30.49				
17-May-08	08:00:00	-30.28			0.25	
17-May-08	20:00:00	-32.36				
18-May-08	08:00:00	-31.61			0.33	
18-May-08	20:00:00	-33.13				
19-May-08	08:00:00	-31.14			0.31	
19-May-08	20:00:00	-34.03				
20-May-08	08:00:00	-33.05			0.37	
20-May-08	20:00:00	-32.88				
21-May-08	08:00:00	-30.60			0.35	
21-May-08	20:00:00	-33.21				
22-May-08	08:00:00	-32.71			0.02	
22-May-08	20:00:00	-35.49				
23-May-08	08:00:00	-34.99			0.04	
23-May-08	20:00:00	-36.53				
24-May-08	08:00:00	-35.84			0.06	
24-May-08	20:00:00	-36.25				
25-May-08	08:00:00	-35.52			0.06	
25-May-08	20:00:00	-37.46				
26-May-08	08:00:00	-36.88			0.02	
26-May-08	20:00:00	-38.70				
27-May-08	08:00:00	-38.10			0	
27-May-08	20:00:00	-39.90				
28-May-08	08:00:00	-39.38			0.26	
28-May-08	20:00:00	-34.73				
29-May-08	08:00:00	-33.22	0.00	3.48	0.26	
29-May-08	20:00:00	-36.12				
30-May-08	08:00:00	-35.59			0	
30-May-08	20:00:00	-38.35				
31-May-08	08:00:00	-37.57			0	
31-May-08	20:00:00	-40.22				6.36
1-Jun-08	08:00:00	-39.54			0.21	
1-Jun-08	20:00:00	-41.51				
2-Jun-08	08:00:00	-37.77			0.09	
2-Jun-08	20:00:00	-40.79				
3-Jun-08	08:00:00	-40.19				
3-Jun-08	20:00:00	-41.94				
4-Jun-08	08:00:00	-41.61				
4-Jun-08	20:00:00	-43.61				

Date	Time			On-site	Smithfield	Smithfield
dd-mmm-yyyy	hh:mm:ss	Ref AW5	CG	Raingauge	Daily Rainfall	Monthly Rainfall
5-Jun-08	08:00:00	-43.34				
5-Jun-08	20:00:00	-45.07				
6-Jun-08	08:00:00	-44.66				
6-Jun-08	20:00:00	-46.50				
7-Jun-08	08:00:00	-45.92				
7-Jun-08	20:00:00	-47.88				
8-Jun-08	08:00:00	-47.30				
8-Jun-08	20:00:00	-49.22				
9-Jun-08	08:00:00	-48.78				
9-Jun-08	20:00:00	-50.56				
10-Jun-08	08:00:00	-50.29				
10-Jun-08	20:00:00	-51.86				
11-Jun-08	08:00:00	-51.56				
11-Jun-08	20:00:00	-52.76				
12-Jun-08	08:00:00	-52.20			0.64	
12-Jun-08	20:00:00	-53.36				
13-Jun-08	08:00:00	-53.13				
13-Jun-08	20:00:00	-54.23				
14-Jun-08	08:00:00	-53.89				
14-Jun-08	20:00:00	-54.97				
15-Jun-08	08:00:00	-54.58			2.71	
15-Jun-08	20:00:00	-55.07				
16-Jun-08	08:00:00	-54.25				
16-Jun-08	20:00:00	-55.75				
17-Jun-08	08:00:00	-55.49				
17-Jun-08	20:00:00	-56.61				
18-Jun-08	08:00:00	-56.56				
18-Jun-08	20:00:00	-57.51				
19-Jun-08	08:00:00	-57.49				
19-Jun-08	20:00:00	-58.35				
20-Jun-08	08:00:00	-58.38				
20-Jun-08	20:00:00	-59.02				
21-Jun-08	08:00:00	-58.87				
21-Jun-08	20:00:00	-59.36				
22-Jun-08	08:00:00	-59.26			0.02	
22-Jun-08	20:00:00	-59.95				
23-Jun-08	08:00:00	-59.92			0.15	
23-Jun-08	20:00:00	-60.60				
24-Jun-08	08:00:00	-60.76	0.00	1.40		
24-Jun-08	20:00:00	-61.46				
25-Jun-08	08:00:00	-61.51				
25-Jun-08	20:00:00	-62.18				
26-Jun-08	08:00:00	-62.24				
26-Jun-08	20:00:00	-62.84				
27-Jun-08	08:00:00	-63.03				
27-Jun-08	20:00:00	-63.56				
28-Jun-08	08:00:00	-63.68				
28-Jun-08	20:00:00	-64.18				
29-Jun-08	08:00:00	-64.40				
29-Jun-08	20:00:00	-64.86				
30-Jun-08	08:00:00	-64.97			0.07	
30-Jun-08	20:00:00	-64.33				3.89

Date	Time			On-site	Smithfield	Smithfield
dd-mmm-yyyy	hh:mm:ss	Ref AW5	CG	Raingauge	Daily Rainfall	Monthly Rainfall
1-Jul-08	08:00:00	-64.43				
1-Jul-08	20:00:00	-64.04				
2-Jul-08	08:00:00	-64.03				
2-Jul-08	20:00:00	-64.03				
3-Jul-08	08:00:00	-64.04				
3-Jul-08	20:00:00	-64.03				
4-Jul-08	08:00:00	-64.02				
4-Jul-08	20:00:00	-64.04				
5-Jul-08	08:00:00	-64.04				
5-Jul-08	20:00:00	-64.03				
6-Jul-08	08:00:00	-64.02				
6-Jul-08	20:00:00	-64.03				
7-Jul-08	08:00:00	-64.04				
7-Jul-08	20:00:00	-64.03				
8-Jul-08	08:00:00	-64.03				
8-Jul-08	20:00:00	-64.03				
9-Jul-08	08:00:00	-64.03				
9-Jul-08	20:00:00	-64.03				
10-Jul-08	08:00:00	-64.04				
10-Jul-08	20:00:00	-64.04				
11-Jul-08	08:00:00	-64.04				
11-Jul-08	20:00:00	-63.32				
12-Jul-08	08:00:00	-62.45				
12-Jul-08	20:00:00	-62.00				
13-Jul-08	08:00:00	-61.43				
13-Jul-08	20:00:00	-61.32				
14-Jul-08	08:00:00	-61.03				
14-Jul-08	20:00:00	-60.78				
15-Jul-08	08:00:00	-60.52				
15-Jul-08	20:00:00	-60.92				
16-Jul-08	08:00:00	-60.74				
16-Jul-08	20:00:00	-61.41				
17-Jul-08	08:00:00	-61.36				
17-Jul-08	20:00:00	-62.08				
18-Jul-08	08:00:00	-62.12				
18-Jul-08	20:00:00	-62.36				
19-Jul-08	08:00:00	-62.00				
19-Jul-08	20:00:00	-61.66				
20-Jul-08	08:00:00	-60.83			0.31	
20-Jul-08	20:00:00	-60.59				
21-Jul-08	08:00:00	-60.10				
21-Jul-08	20:00:00	-60.63				
22-Jul-08	08:00:00	-60.30				
22-Jul-08	20:00:00	-61.12				
23-Jul-08	08:00:00	-60.81			0.11	
23-Jul-08	20:00:00	-60.68				
24-Jul-08	08:00:00	-17.49			0.79	
24-Jul-08	20:00:00	-21.72				
25-Jul-08	08:00:00	-25.08				
25-Jul-08	20:00:00	-28.07				
26-Jul-08	08:00:00	-28.93				
26-Jul-08	20:00:00	-31.13				

Date	Time			On-site	Smithfield	Smithfield
dd-mmm-yyyy	hh:mm:ss	Ref AW5	CG	Raingauge	Daily Rainfall	Monthly Rainfall
27-Jul-08	08:00:00	-31.24			0.27	
27-Jul-08	20:00:00	-33.24				
28-Jul-08	08:00:00	-33.22			0.15	
28-Jul-08	20:00:00	-35.77				
29-Jul-08	08:00:00	-35.31				
29-Jul-08	20:00:00	-37.59				
30-Jul-08	08:00:00	-37.06	0.00	7.10		
30-Jul-08	20:00:00	-38.71				
31-Jul-08	08:00:00	-38.39				
31-Jul-08	20:00:00	-40.13				1.63
1-Aug-08	08:00:00	-39.74				
1-Aug-08	20:00:00	-41.85				
2-Aug-08	08:00:00	-41.39				
2-Aug-08	20:00:00	-43.54				
3-Aug-08	08:00:00	-43.33				
3-Aug-08	20:00:00	-45.40				
4-Aug-08	08:00:00	-44.86				
4-Aug-08	20:00:00	-46.96				
5-Aug-08	08:00:00	-46.37				
5-Aug-08	20:00:00	-48.43				
6-Aug-08	08:00:00	-47.93				
6-Aug-08	20:00:00	-50.05				
7-Aug-08	08:00:00	-49.57				
7-Aug-08	20:00:00	-48.68				
8-Aug-08	08:00:00	-45.71			0.91	
8-Aug-08	20:00:00	-46.35				
9-Aug-08	08:00:00	-45.34				
9-Aug-08	20:00:00	-47.49				
10-Aug-08	08:00:00	-46.71				
10-Aug-08	20:00:00	-47.94				
11-Aug-08	08:00:00	-42.35			0.04	
11-Aug-08	20:00:00	-39.93				
12-Aug-08	08:00:00	-38.82				
12-Aug-08	20:00:00	-41.09				
13-Aug-08	08:00:00	-39.96			0.61	
13-Aug-08	20:00:00	-30.45				
14-Aug-08	08:00:00	-30.01			1.13	
14-Aug-08	20:00:00	-31.80				
15-Aug-08	08:00:00	-31.87				
15-Aug-08	20:00:00	-28.25				
16-Aug-08	08:00:00	-15.07			0.53	
16-Aug-08	20:00:00	-19.15				
17-Aug-08	08:00:00	-21.60				
17-Aug-08	20:00:00	-23.64				
18-Aug-08	08:00:00	-24.78				
18-Aug-08	20:00:00	-27.41				
19-Aug-08	08:00:00	-27.72				
19-Aug-08	20:00:00	-30.28				
20-Aug-08	08:00:00	-30.30				
20-Aug-08	20:00:00	-32.43				
21-Aug-08	08:00:00	-32.19				
21-Aug-08	20:00:00	-34.47				

Date	Time			On-site	Smithfield	Smithfield
dd-mmm-yyyy	hh:mm:ss	Ref AW5	CG	Raingauge	Daily Rainfall	Monthly Rainfall
22-Aug-08	08:00:00	-34.08				
22-Aug-08	20:00:00	-36.29				
23-Aug-08	08:00:00	-35.62				
23-Aug-08	20:00:00	-37.46				
24-Aug-08	08:00:00	-36.79				
24-Aug-08	20:00:00	-38.62				
25-Aug-08	08:00:00	-37.95				
25-Aug-08	20:00:00	-39.12				
26-Aug-08	08:00:00	-38.52			0.02	
26-Aug-08	20:00:00	-38.05				
27-Aug-08	08:00:00	-37.10				
27-Aug-08	20:00:00	-29.56				
28-Aug-08	08:00:00	-27.97				
28-Aug-08	20:00:00	-29.70				
29-Aug-08	08:00:00	-29.85	1.20	4.60		
29-Aug-08	20:00:00	-31.13				
30-Aug-08	08:00:00	-31.06				
30-Aug-08	20:00:00	-33.04				
31-Aug-08	08:00:00	-32.81				
31-Aug-08	20:00:00	-35.20				3.24
1-Sep-08	08:00:00	-34.41				
1-Sep-08	20:00:00	-36.83				
2-Sep-08	08:00:00	-36.08				
2-Sep-08	20:00:00	-38.29				
3-Sep-08	08:00:00	-37.61				
3-Sep-08	20:00:00	-39.77				
4-Sep-08	08:00:00	-39.20				
4-Sep-08	20:00:00	-41.10				
5-Sep-08	08:00:00	-40.29				
5-Sep-08	20:00:00	-29.93				
6-Sep-08	08:00:00	-3.94			4.57	
6-Sep-08	20:00:00	-12.03				
7-Sep-08	08:00:00	-14.39			0.17	
7-Sep-08	20:00:00	-17.09				
8-Sep-08	08:00:00	-18.20				
8-Sep-08	20:00:00	-20.51				
9-Sep-08	08:00:00	-21.05				
9-Sep-08	20:00:00	-14.08				
10-Sep-08	08:00:00	-12.97			0.34	
10-Sep-08	20:00:00	-13.48				
11-Sep-08	08:00:00	-14.87			0.35	
11-Sep-08	20:00:00	-16.26				
12-Sep-08	08:00:00	-16.88				
12-Sep-08	20:00:00	-18.46				
13-Sep-08	08:00:00	-18.86				
13-Sep-08	20:00:00	-20.72				
14-Sep-08	08:00:00	-20.79				
14-Sep-08	20:00:00	-22.89				
15-Sep-08	08:00:00	-22.85				
15-Sep-08	20:00:00	-24.45				
16-Sep-08	08:00:00	-24.35			0.03	
16-Sep-08	20:00:00	-22.88				

Date	Time			On-site	Smithfield	Smithfield
dd-mmm-yyyy	hh:mm:ss	Ref AW5	CG	Raingauge	Daily Rainfall	Monthly Rainfall
17-Sep-08	08:00:00	-17.82			0.41	
17-Sep-08	20:00:00	-18.66				
18-Sep-08	08:00:00	-19.06				
18-Sep-08	20:00:00	-21.21				
19-Sep-08	08:00:00	-21.53				
19-Sep-08	20:00:00	-23.29				
20-Sep-08	08:00:00	-23.31				
20-Sep-08	20:00:00	-24.42				
21-Sep-08	08:00:00	-24.29				
21-Sep-08	20:00:00	-25.23				
22-Sep-08	08:00:00	-24.88	1.45	7.37		
22-Sep-08	20:00:00	-26.46				
23-Sep-08	08:00:00	-26.14				
23-Sep-08	20:00:00	-27.34				
24-Sep-08	08:00:00	-27.09				
24-Sep-08	20:00:00	-28.22				
25-Sep-08	08:00:00	-25.23			0.03	
25-Sep-08	20:00:00	-21.20				
26-Sep-08	08:00:00	-11.49			2.26	
26-Sep-08	20:00:00	-14.60				
27-Sep-08	08:00:00	-13.75			0.45	
27-Sep-08	20:00:00	-15.58				
28-Sep-08	08:00:00	-16.34				
28-Sep-08	20:00:00	-17.76				
29-Sep-08	08:00:00	-18.27				
29-Sep-08	20:00:00	-19.64				
30-Sep-08	08:00:00	-19.81				
30-Sep-08	20:00:00	-20.09				8.61
1-Oct-08	08:00:00	-20.05			0.27	
1-Oct-08	20:00:00	-20.17				
2-Oct-08	08:00:00	-20.55			0.22	
2-Oct-08	20:00:00	-21.85				
3-Oct-08	08:00:00	-21.99				
3-Oct-08	20:00:00	-23.41				
4-Oct-08	08:00:00	-23.56				
4-Oct-08	20:00:00	-24.99				
5-Oct-08	08:00:00	-24.99				
5-Oct-08	20:00:00	-26.16				
6-Oct-08	08:00:00	-25.92				
6-Oct-08	20:00:00	-27.22				
7-Oct-08	08:00:00	-27.00				
7-Oct-08	20:00:00	-27.90				
8-Oct-08	08:00:00	-27.34				
8-Oct-08	20:00:00	-28.35				
9-Oct-08	08:00:00	-27.86				
9-Oct-08	20:00:00	-28.53				
10-Oct-08	08:00:00	-27.99				
10-Oct-08	20:00:00	-28.37				
11-Oct-08	08:00:00	-27.95				
11-Oct-08	20:00:00	-28.82				
12-Oct-08	08:00:00	-28.61				
12-Oct-08	20:00:00	-29.59				

Date	Time			On-site Raingauge	Smithfield Daily Rainfall	Smithfield Monthly Rainfall
dd-mmm-yyyy	hh:mm:ss	Ref AW5	CG			
13-Oct-08	08:00:00	-28.96				
13-Oct-08	20:00:00	-29.80				
14-Oct-08	08:00:00	-29.18				
14-Oct-08	20:00:00	-30.29				
15-Oct-08	08:00:00	-29.67				
15-Oct-08	20:00:00	-30.78				
16-Oct-08	08:00:00	-30.15				
16-Oct-08	20:00:00	-31.24				
17-Oct-08	08:00:00	-30.69				
17-Oct-08	20:00:00	-26.42				
18-Oct-08	08:00:00	-15.58			1.06	
18-Oct-08	20:00:00	-15.22				
19-Oct-08	08:00:00	-16.88			0.03	
19-Oct-08	20:00:00	-18.70				
20-Oct-08	08:00:00	-19.49				
20-Oct-08	20:00:00	-20.45				
21-Oct-08	08:00:00	-20.93				
21-Oct-08	20:00:00	-22.07				
22-Oct-08	08:00:00	-22.68				
22-Oct-08	20:00:00	-23.59				
23-Oct-08	08:00:00	-23.92				
23-Oct-08	20:00:00	-24.47				
24-Oct-08	08:00:00	-24.23				
24-Oct-08	20:00:00	-21.10				
25-Oct-08	08:00:00	-19.13			0.22	
25-Oct-08	20:00:00	-19.32				
26-Oct-08	08:00:00	-19.79			0.26	
26-Oct-08	20:00:00	-20.71				
27-Oct-08	08:00:00	-20.88				
27-Oct-08	20:00:00	-21.84				
28-Oct-08	08:00:00	-22.11				
28-Oct-08	20:00:00	-23.17				
29-Oct-08	08:00:00	-23.52				
29-Oct-08	20:00:00	-24.22				
30-Oct-08	08:00:00	-24.72				
30-Oct-08	20:00:00	-25.13				
31-Oct-08	08:00:00	-25.16				
31-Oct-08	20:00:00	-25.25				2.06

APPENDIX D

2008 Site Photos



SPA1. Sta. 18+00 Erosion on right bank behind root wads.



SPA2. Sta. 20+00 Erosion on right bank behind root wads.



SPA3. Sta. 20+40 End cut on right bank due to improper installation of log weir; bed stable.



SPA4. Sta. 22+00 Erosion on right bank behind root wads.



SPA5. Sta. 23+50 Erosion behind root wad on downstream end; other root wads are stable.



SPA6. Sta. 25+40 Erosion on left bank behind root wads.



SPA7. Sta. 31+40 Undercut on right bank at log weir; banks appear stable.



SPA8. Sta. 37+00 Minor right bank erosion at channel plug.



SPA9. Sta. 57+10 Erosion on left bank at log weir; end cut on right bank has been repaired.



SPA10. Sta. 65+30 Undercut on left bank at log weir; has been repaired, but is still eroding.



SPA11. Sta. 66+40 Bank erosion causing mid-channel bar formation.



SPA12. Sta.74+50 Erosion downstream of log vane due to improper installation; planted with live stakes to stabilize banks.



SPA13. Sta. 81+60 Mid-channel bar formation.



SPA14. Sta. 84+00 Log in channel directing flow to sides of channel, causing minor erosion.



Vegetation Plot 1



Vegetation Plot 2



Vegetation Plot 3



Vegetation Plot 4



Vegetation Plot 5



Vegetation Plot 6



Vegetation Plot 7



Vegetation Plot 8



Vegetation Plot 9



Vegetation Plot 10



Vegetation Plot 11



Vegetation Plot 12



Vegetation Plot 13



Vegetation Plot 14



Vegetation Plot 15



Vegetation Plot 16



Vegetation Plot 17



Vegetation Plot 18



Vegetation Plot 19



Vegetation Plot 20



Vegetation Plot 21



Vegetation Plot 22