

SUMMIT SEEP NONRIPARIAN WETLAND RESTORATION PROJECT PLAN SHEETS

DAVIDSON COUNTY, NORTH CAROLINA



Restoration Systems, LLC
1101 Haynes Street, Suite 211
Raleigh, NC 27604

Prepared For :



Notes & Revisions

Project:

**Summit Seep
Non-Riparian Wetland
Restoration Site**

Davidson County
North Carolina

Sheet Title:

TITLE

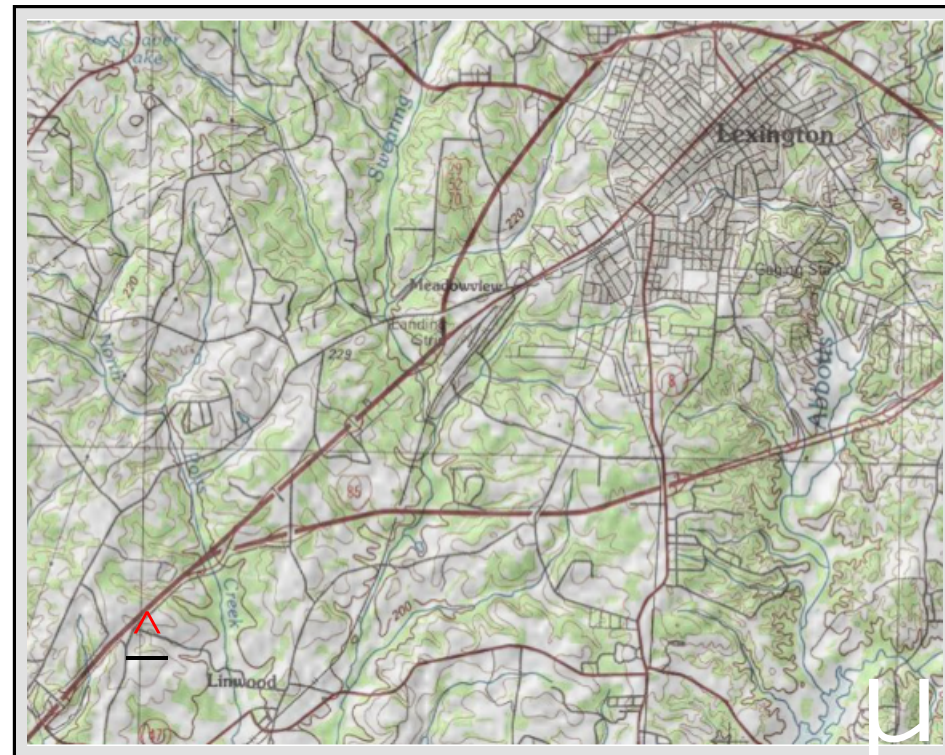
Figure No.

A

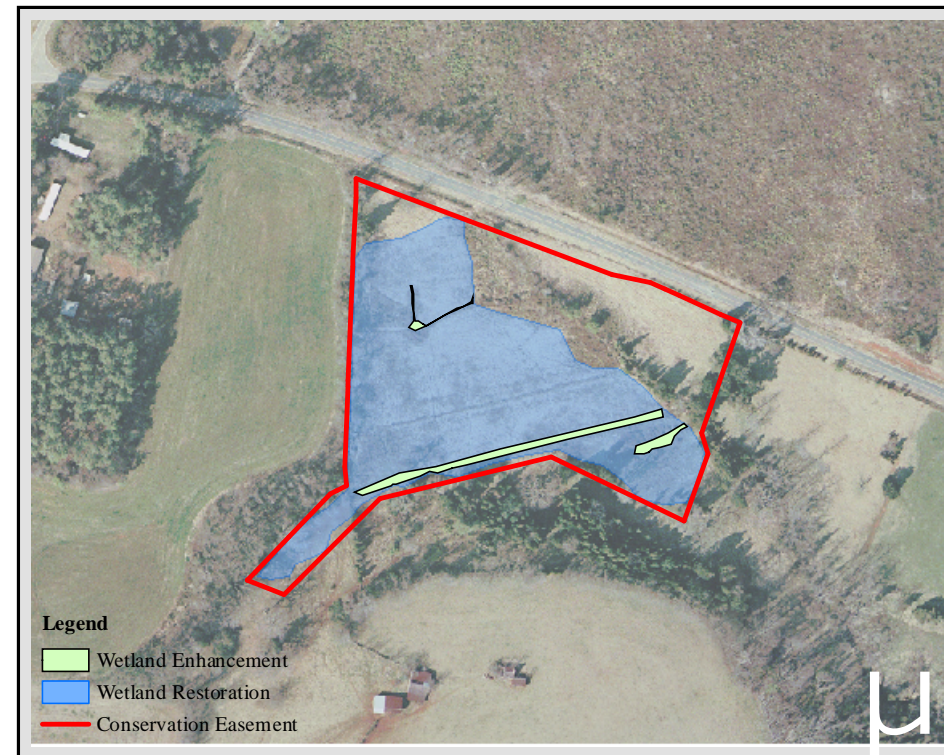
Scale: No Scale

Date: 04.25.2011

EEP Contract # : 003244



Vicinity Map



Site Map

PROJECT DISCRIPTION:

THE SUMMIT SEEP NONRIPARIAN WETLAND RESTORATION SITE ENCOMPASSES 6.4 ACRES INCLUDING 3.914 ACRES OF WETLAND RESTORATION AND 0.186 ACRES OF WETLAND ENHANCEMENT WITHIN FORMER FARM PASTURE LAND. THE SITE HAS BEEN CLEARED OF NATIVE FOREST VEGETATION, DITCHED, AND DRAINED TO REMOVE GROUNDWATER HYDROLOGY FROM AN EXISTING SPRING AND HILLSIDE SEEPS. THE SITE IS LOCATED UPSLOPE FROM AN UNNAMED TRIBUTARY TO NORTH POTTS CREEK, WHICH HAS BEEN ASSIGNED A BEST USAGE CLASSIFICATION OF C AND IS FULLY SUPPORTING ITS INTENDED USES. THE SITE IS LOCATED WITHIN TARGETED LOCAL WATERSHED 03040103020010.

CONSTRUCTION ACTIVITIES AT THE SITE WILL RE-ELEVATE THE GROUNDWATER TABLE TO HISTORIC CONDITION THAT EXISTED PRIOR TO DITCHING OF THE SITE. CONSTRUCTION METHODS WERE BASED PRIMARILY UPON CARBON COPY METHOD FOR WETLAND RESTORATION, MIMICKING REFERENCE (RELATIVELY UNDISTURBED) WETLANDS IN THE REGION. THE PROJECT IS DESIGNED TO MAXIMIZE GROUNDWATER RECHARGE AND WATER QUALITY BENEFITS IN THE YADKIN RIVER BASIN.

PROJECT LOCATION:

THE SITE IS LOCATED WITH 14-DIGIT CATALOGING UNIT 03040103020010 APPROXIMATELY 5 MILES SOUTHWEST OF LEXINGTON, IN WESTERN DAVIDSON COUNTY.

LATITUDE: 35.761264
LONGITUDE: -80.334264
(NAD 83/WGS 84)

TYPE OF WORK: WETLAND RESTORATION & ENHANCEMENT

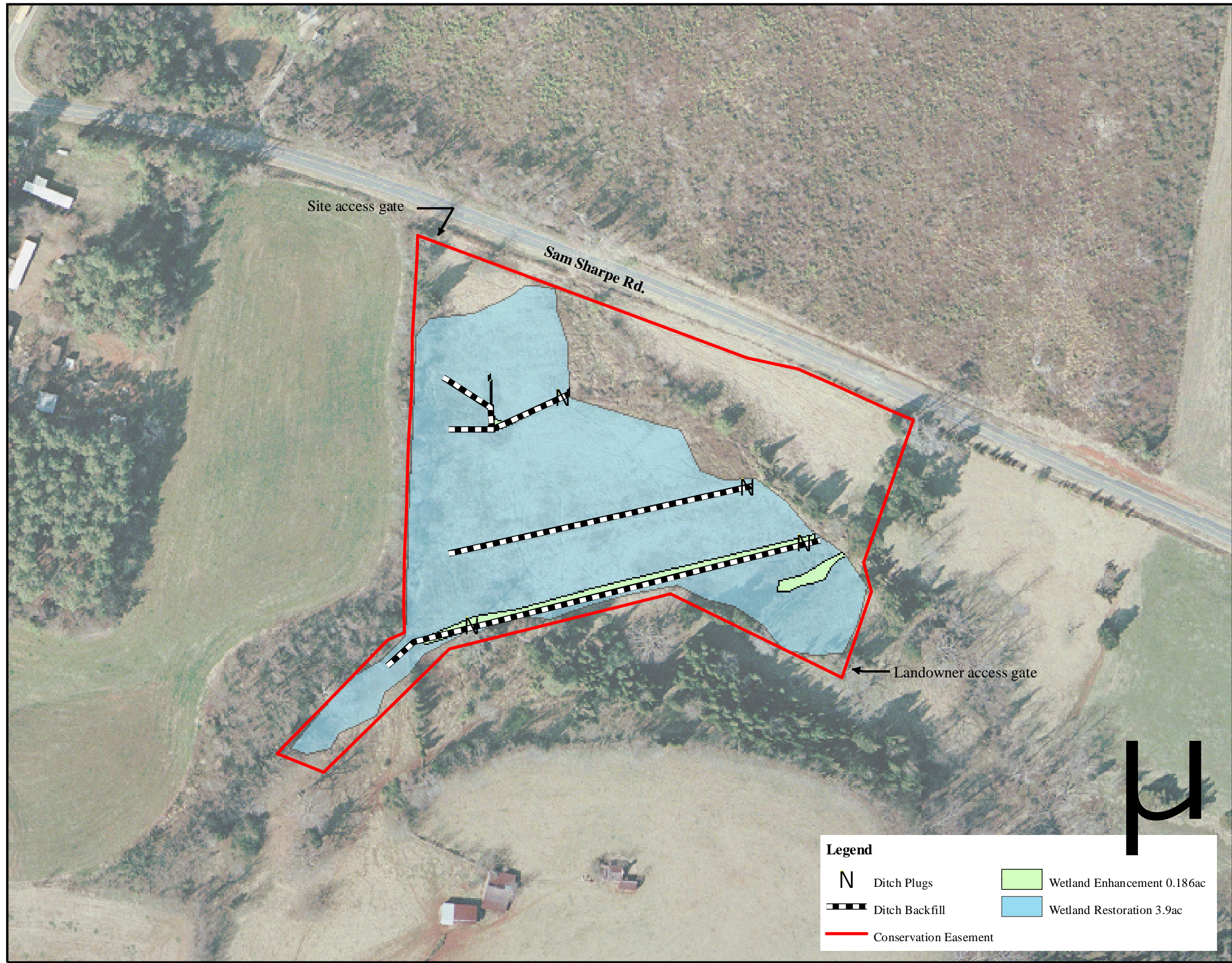
- DITCH CLEARING
- DITCH FILLING
- SITE GRADING
- SITE PLANTING

INDEX OF SHEETS

- A: TITLE PAGE
- B: CONSTRUCTION
- C: PLANTING
- D: MONITORING

FIRM NAME & POC

WORTH CREECH - 919.334.9101
RESTORATION SYSTEMS, LCC
1101 HAYNES STREET, SUITE 211
RALEIGH, NC 27604



Legend

N	Ditch Plugs	Light Green	Wetland Enhancement 0.186ac
Black and white dashed line	Ditch Backfill	Blue	Wetland Restoration 3.9ac
Red line	Conservation Easement		



Restoration Systems, LLC
 1101 Haynes Street, Suite 211
 Raleigh, NC 27604

Prepared For :



Notes & Revisions

Project:
**Summit Seep
 Non-Riparian Wetland
 Restoration Site**
 Davidson County
 North Carolina

Sheet Title:
CONSTRUCTION
 Figure No.
B

Scale: 1:1500

Date: 06.08.2011

EEP Contract # : 003244



Restoration Systems, LLC
 1101 Haynes Street, Suite 211
 Raleigh, NC 27604

Prepared For :



Notes & Revisions

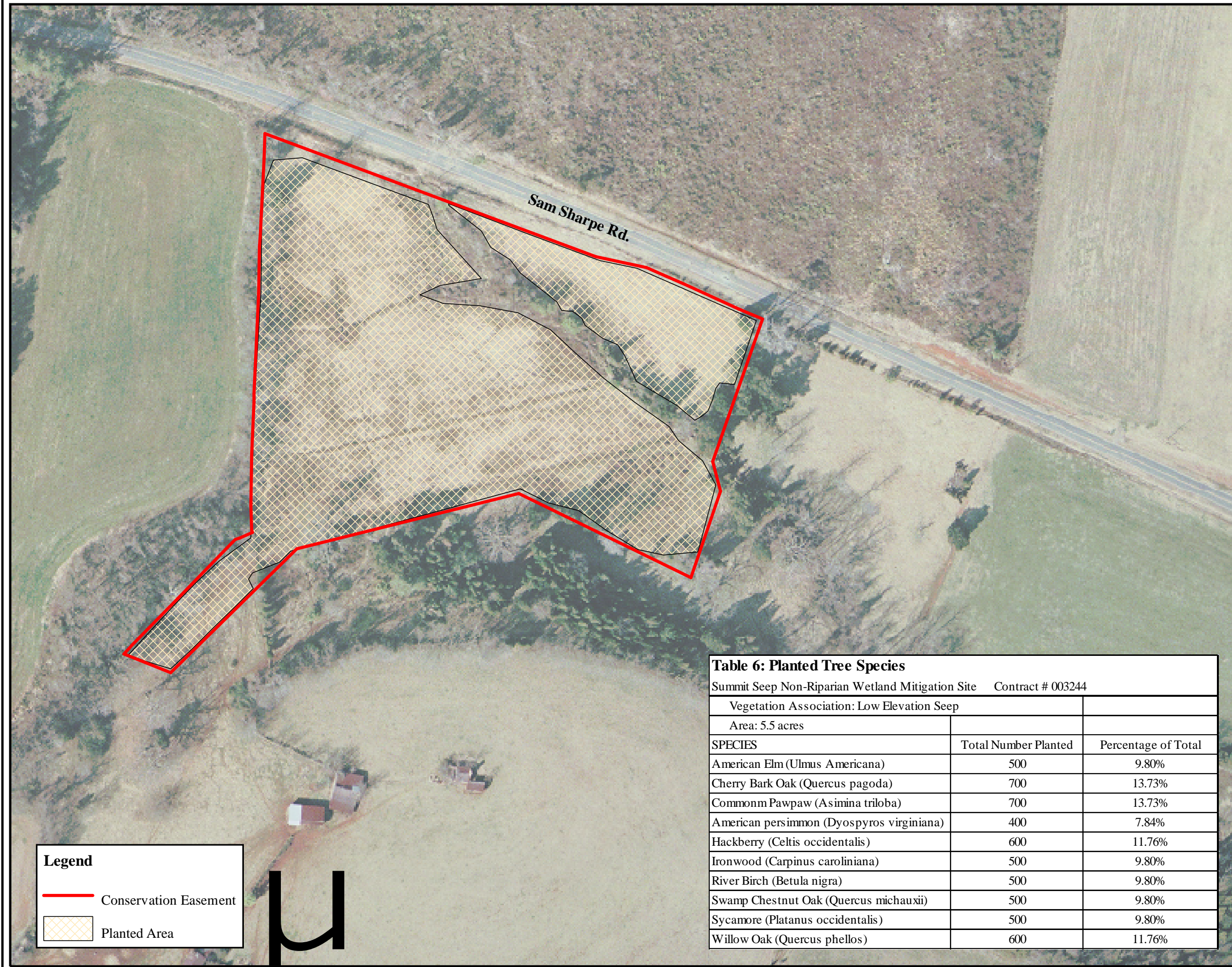
Project:
**Summit Seep
 Non-Riparian Wetland
 Restoration Site**
 Davidson County
 North Carolina

Sheet Title:
PLANTING
 Figure No.
C

Scale: 1:1500

Date: 06.08.2011

EEP Contract # : 003244



Legend

- Conservation Easement
- Planted Area

Table 6: Planted Tree Species		
Summit Seep Non-Riparian Wetland Mitigation Site Contract # 003244		
Vegetation Association: Low Elevation Seep		
Area: 5.5 acres		
SPECIES	Total Number Planted	Percentage of Total
American Elm (<i>Ulmus Americana</i>)	500	9.80%
Cherry Bark Oak (<i>Quercus pagoda</i>)	700	13.73%
Commonm Pawpaw (<i>Asimina triloba</i>)	700	13.73%
American persimmon (<i>Dyospyros virginiana</i>)	400	7.84%
Hackberry (<i>Celtis occidentalis</i>)	600	11.76%
Ironwood (<i>Carpinus caroliniana</i>)	500	9.80%
River Birch (<i>Betula nigra</i>)	500	9.80%
Swamp Chestnut Oak (<i>Quercus michauxii</i>)	500	9.80%
Sycamore (<i>Platanus occidentalis</i>)	500	9.80%
Willow Oak (<i>Quercus phellos</i>)	600	11.76%



Restoration Systems, LLC
 1101 Haynes Street, Suite 211
 Raleigh, NC 27604

Prepared For :



Notes & Revisions

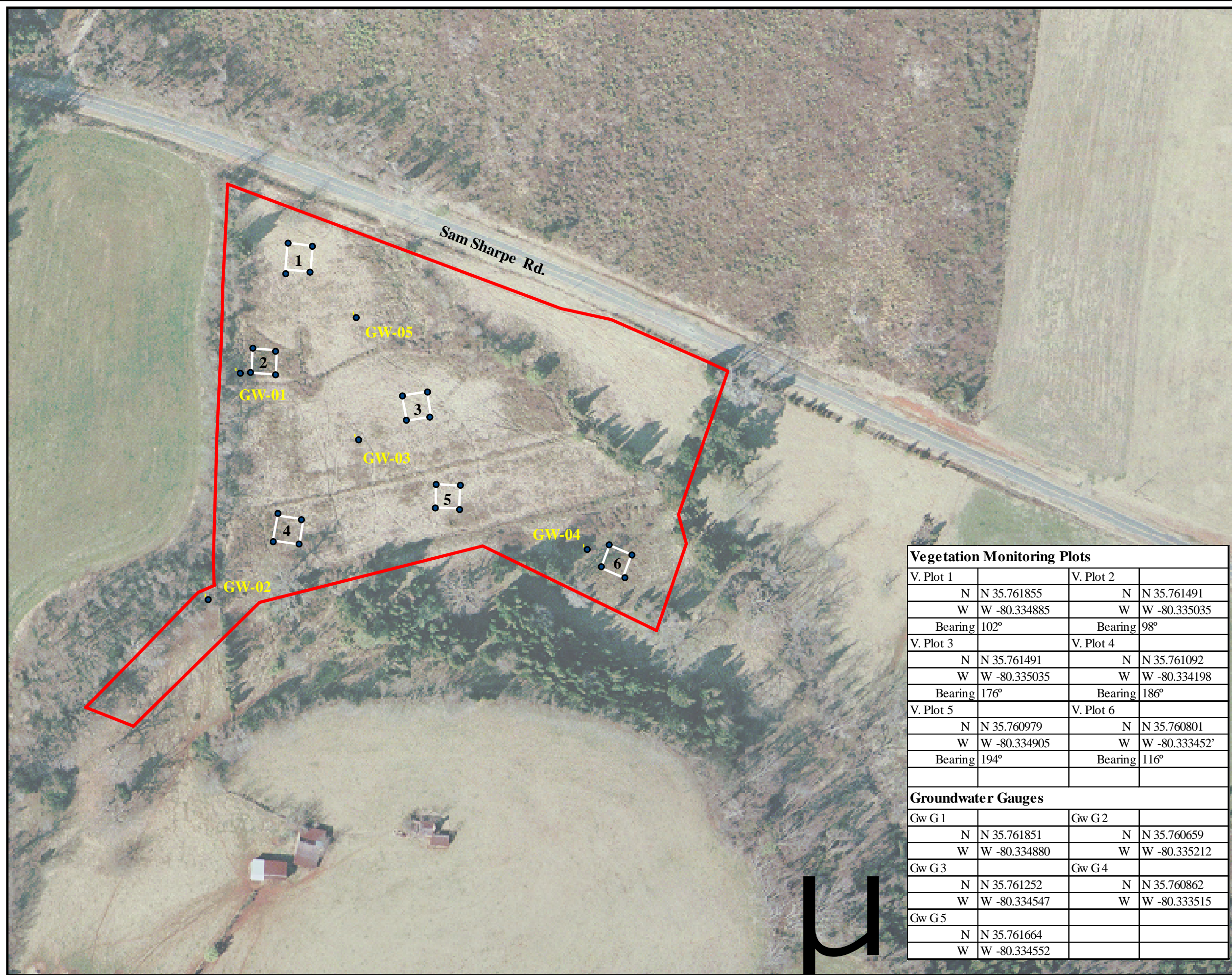
Project:
**Summit Seep
 Non-Riparian Wetland
 Restoration Site**
 Davidson County
 North Carolina

Sheet Title:
MONITORING
 Figure No.
D

Scale: 1:1500

Date: 06.08.2011

EEP Contract # : 003244



Vegetation Monitoring Plots			
V. Plot 1		V. Plot 2	
N	N 35.761855	N	N 35.761491
W	W -80.334885	W	W -80.335035
Bearing	102°	Bearing	98°
V. Plot 3		V. Plot 4	
N	N 35.761491	N	N 35.761092
W	W -80.335035	W	W -80.334198
Bearing	176°	Bearing	186°
V. Plot 5		V. Plot 6	
N	N 35.760979	N	N 35.760801
W	W -80.334905	W	W -80.333452'
Bearing	194°	Bearing	116°
Groundwater Gauges			
Gw G 1		Gw G 2	
N	N 35.761851	N	N 35.760659
W	W -80.334880	W	W -80.335212
Gw G 3		Gw G 4	
N	N 35.761252	N	N 35.760862
W	W -80.334547	W	W -80.333515
Gw G 5			
N	N 35.761664		
W	W -80.334552		

Construction Photos

Summit Seep Non-Riparian Wetland Mitigation Site

Contract # 003244

Photos Taken: 4.13.2011 - 4.15.2011



Construction Photos

Summit Seep Non-Riparian Wetland Mitigation Site

Contract # 003244

Photos Taken: 4.13.2011 - 4.15.2011

