

Appendix I

S & ME Corridor Surveys

I-2: Foremain Survey



February 7, 2014

Grey Engineering
254 West Water Street
Mocksville, North Carolina 27028

Attention: Mr. John Grey, P.E.
President and Owner

Reference: Summary of Site Evaluation Services

Approximately 1.4-mile Proposed Sewer Forcemain Route
Eastern Davie Sewer Concept
Davie County, North Carolina
S&ME Project No. 1584-13-104

Dear Mr. Grey:

S&ME, Inc. (S&ME) has completed the above referenced site evaluation services. The scope of services was performed in general accordance with S&ME Proposal No. 43-14-00072, dated January 22, 2014 and authorized on the same date.

The current review area, hereby referred to as the forcemain corridor, is part of the Davie Sewer Concept project, located near the Town of Bermuda Run in Davie County, North Carolina. The proposed forcemain corridor extends generally south from the Bermuda Run Wastewater Treatment Plant (to be abandoned) to the proposed Interceptor line at Hillcrest Drive. The forcemain corridor is approximately 1.4 miles in length.

S&ME conducted a pedestrian review of the forcemain corridor to determine the approximate location and extent of jurisdictional features (streams and wetlands, collectively referred to as "waters of the U.S.") therein, as well as an understating of the route's potential to support habitat conducive to federally-protected species (*Rhus michauxii* - Michaux's sumac). The pedestrian review was conducted by our Darrin Peine on January 24, 2014.

In preparation for the pedestrian review, S&ME professionals reviewed the applicable United States Geological Survey's topographic map (Advance, NC 1987), the Soil Survey Geographic Database and State Soil Geographic Database (SSURGO/STATSGO) digital soils data produced and distributed by the Natural Resources Conservation Service (NRCS), and representative aerial imagery. S&ME then visited the project corridor with Grey Engineering staff member Gary Bullard to determine the approximate extent and location of jurisdictional areas located within the proposed forcemain corridor.

S&ME's methodology for conducting the jurisdictional approximation was developed by following the general procedures set forth in the 1987 U.S. Army Corps of Engineers (USACE) Wetlands Delineation Manual and the Eastern Mountains and Piedmont Region Supplemental Guidance¹. Our field review also included identification of

tributaries (streams) within the project corridor. S&ME demarcated the origin of each jurisdictional channel with a single flag-point, as applicable.

Results of our review are depicted on the attached Surface Water Assessment Figure Nos. 1-2; Site Photograph Page; and Field Report dated January 24, 2014. Please note that the jurisdictional boundaries depicted on the figures do not represent the results of a formal delineation. In the event that plans to install the new forcemain sewerline are confirmed, the corridor should be formally delineated and jurisdictional boundaries verified by the USACE prior to any land disturbing activities.

FINDINGS

Field review determined that the currently proposed Eastern Davie Sewer forcemain route would potentially cross two jurisdictional streams. At the time of the field review, no wetlands were identified within the review area.

Prior to the Forcemain Route field review, at the request of Gary Bullard (Grey Engineering, also present during the field review), the golf course ponds (approximately six ponds) located along the proposed sewer interceptor route between Kingsmill Drive and Oak Valley Boulevard were revisited in order to determine potential hydrological connection to surface waters. Grey Engineering is attempting to determine the location of two potential routes within this section of the proposed sewer line and wanted to know if the ponds could potentially be regulated by the U.S. Army Corps of Engineers. Upon further review the ponds were observed to be connected to either Smith Creek or the unnamed tributary of Smith Creek through piping systems or overflow spillways.

Based on guidance received from the USACE (personal communication), if the ponds are hydrologically connected to waters of the U.S. then they are also jurisdictional. However, open water impacts rarely require compensatory mitigation to offset the impact.

While in the field, S&ME's Darrin Peine also assessed the project corridor for potential Michaux's sumac habitat. Please note that this assessment did not constitute a survey for Michaux's sumac, but served only to indicate whether or not potential habitat for this species exists within the project route. According to the U.S. Fish and Wildlife Service, the best time of year to search for Michaux's sumac is May through October.

Michaux's sumac is a federally protected species with documented populations in Davie County. Michaux's sumac grows in sandy or rocky open woods in association with basic soils, and survives best in areas where some form of disturbance has provided an open area, such as highway rights-of way, roadsides, or on the edges of artificially-maintained clearings.

It is noted in S&ME's Field Report dated January 24, 2014 that there appears to be an artificially maintained clearing associated with an existing Power Utility right-of-way located south of the existing wastewater treatment plant and east of the Yadkin River. This area is generally outside of the proposed forcemain route and is adjacent to a maintained golf course and the Yadkin River. It is unlikely that the Michaux's sumac is

present in this small open area. However, this portion of the project corridor does appear to contain marginal habitat that is potentially suitable for Michaux's sumac. In the event that plans to install the new forcemain sewerline are confirmed, the corridor should be formally surveyed for the presence of this species, ideally within the optimal survey window referenced above.

REGULATORY CONSIDERATIONS

Waters of the U.S. (jurisdictional waters), which include wetlands, are regulated by the USACE through Section 404 of the Clean Water Act (CWA). Throughout most of North Carolina, the Wilmington District of the USACE handles Section 404 regulatory review. Section 401 of the CWA grants corresponding regulatory authority to individual states. In North Carolina, the Section 401 regulatory agency is the Division of Water Resources (DWR) of the Department of Environment and Natural Resources.

Section 404 authorization for proposed sewer activity work in North Carolina can typically be authorized under Nationwide Permit (NWP) 12 (Utility Line Activities). Section 401 authorization for utility line activities is generally granted under North Carolina's Water Quality Certification No. 3884.

The notification thresholds for NWP 12 include impacts involving the following: (1) the activity involves mechanized land clearing in a forested wetland for the utility line right-of-way; (2) a section 10 permit is required; (3) the utility line in waters of the U.S., exceeds 500 feet; (4) the utility line is placed within a jurisdictional and it runs parallel to or along a stream bed that is within that jurisdictional area; (5) discharges that result in the loss of greater than 0.10-acre of waters of the U.S.; (6) permanent access roads are constructed above grade in waters of the U.S. for a distance of more than 500 feet; or (7) permanent access roads are constructed in waters of the US with impervious materials.

The notification thresholds for DWR Certification No. 3884 include the following: 1) permanent impacts to any wetlands and/or waters, including streams; or 2) any stream relocation; or 3) impacts to any wetlands and/or waters if the maintenance corridor in a wetland or at a stream crossing is greater than 15 feet wide (except activities located in areas with Riparian Area Protection Rules when the maintenance corridor at stream crossing must be 10 feet wide or less); 4) any impact associated with a Notice of Violation or an enforcement action for violation(s) of DWQ Wetland Rules, Isolated Wetland Rules, DWQ Surface Water or Wetland Standards, or Riparian Buffer Rules; or 5) any impacts to streams and/or buffers in the Neuse, Tar-Pamlico, or Catawba River Basins or in the Randleman, Jordan or Goose Creek Watersheds (or any other basin or watershed with Riparian Area Protection Rules in effect at the time of application) unless the activities are listed as "Exempt" from these rules or a Buffer Authorization Certificate is issued through the NC Division of Coastal Management delegation for "Allowable" activities.

In compliance with NWP 12, permanent losses of waters of the U.S. may not exceed 0.5 acre. It should be noted that permanent maintenance of proposed right-of-way in forested wetland areas is considered an impact which requires compensatory mitigation, but is not considered a permanent loss of waters of the U.S.

CLOSING

S&ME appreciates the opportunity to be of service to you. If you have questions regarding the information provided, or if we may be of further assistance, please contact us.

Sincerely,

S&ME



Darrin M. Peine, QEP
depeine@smeinc.com
Natural Resources Project Manager



Joey Lawler, PWS
jlawler@smeinc.com
Natural Resources Project Professional

Senior Reviewed By: Ed Henriques, III L.G.
Environmental Department Manager

Enclosures: Figure 1-2: Surface Water Assessment;
Site Photograph Page
Field Notes
ArcGIS Shape Files: emailed

¹ Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual, Technical Report Y-87-1, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS. NTIS No. AD A176 912 (Note: Appendix C information is outdated and must be obtained from regional Wetlands offices).
Environmental Laboratory. 2012. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region. U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS. ERDC/EL TR-12-9



9751 Southern Pine Blvd.
 Charlotte, NC 28273
 (704) 523-4726
 (704) 525-3953 fax

FIELD REPORT

Date: January 24, 2014		Job No.: 1584-13-104	
Project/Location: Davie County Sewer Forcemain Route Bermuda Run NC			
Contractor: N/A		Weather/Temperature: Sunny 20 degrees F	
Present at Site: Darrin Peine (S&ME) Gary Bullard (Grey Engineering)			
Time: 08:00 – 16:00		Mileage: 162 mi	

Services Performed

Pedestrian review of proposed corridor for jurisdictional wetlands and stream; preliminary assessment of potential habitat for Michaux's sumac.

To: file

 Ed Henriques

Tasks or Task Sequence	Potential Hazards	How to Protect From Hazard
1. pedestrian field review	Protect from cold, wind-chill, vegetation	Proper PPE and layers of clothing
2.		
3.		

Observations/Remarks:

08:00 – Travel from Charlotte to McDonald's at 117 N Carolina 801, Advance, NC

09:00 – meet with Gary Bullard (Grey Engineering) at McDonald's restaurant. Reviewed field maps.

10:00 – 16:00: Field review with Gary. Observed the following features:

Revisited the golf course ponds along the proposed interceptor route located between Kingsmill Drive and Oak Valley Blvd (approximately six ponds, Photo 4). Observed that the ponds are hydrologically connected to adjacent surface waters. Gary asked to confirm if the ponds would be regulated by the U.S. Army Corps of Engineers.

Starting field review for the Forcemain Route from the existing Wastewater Treatment Plant off Juniper Circle traveling south:

Observed habitat area in proximity to Stream 1, an UT to Yadkin River, within golf course located east of Bing Crosby Blvd and adjacent to Yadkin River (Figure 1 & Photo 1). There appears to be an artificially maintained clearing associated with an existing Power Utility rights-of-way located just south of the WWTP and east of the Yadkin River. Although this area is generally outside of the proposed route, potential habitat for Michaux's sumac may persist within this area. No wetlands were identified within the proposed route within this area.

Observed Stream 2, also an UT to Yadkin River, leaving the golf course area located approximately 0.1-mile south of Stream 1 (Figure 1 & Photo 2). Mature tree species noted: American Elm, Sweet Gum, Tulip Popular, Red Maple. Open understory. Potential habitat for Michaux's sumac unlikely within this area. No wetlands identified within this area.

Observed what appears to be a man-made drainage ditch adjacent to an access road located on the perimeter of the golf course property (Figure 1, Photo 3). Drainage ditch does not appear to meet the criteria of a jurisdictional stream. Potential habitat for Michaux's sumac unlikely within this area. No wetlands identified within this area.

Forcemain route then generally follows a southwest direction away from the Yadkin River through wooded residential areas along Ashburton Road, Underpass Road and Hillcrest Drive.

A review of potential habitat for the federally protected plant Michaux's Sumac was performed. The species is typically found growing on sandy soils in openings or rocky, thin/open woods. Potential habitat for the plant is within the project corridor and no specimens of the Michaux's sumac were observed.

On-Site Representative/Company

S&ME Personnel

Disclaimer: The presence of S&ME at the project site shall not be construed as an acceptance or approval of activities at the site. S&ME is at the project site to perform specific services and has certain responsibilities which are limited to those specifically authorized in our agreement with our client. In no event shall S&ME be responsible for the safety or the means and methods of other parties at the project site. **The information presented in this field report should be considered preliminary until it is reviewed by an engineer.**



Photo 1: View upstream of Forcemain Route Stream 1 (Perennial Stream) facing west, (Figure No. 1).



Photo 3: View downstream of Non-jurisdictional ditch within proposed Forcemain Route (Figure No. 1).



Photo 2: View downstream of Forcemain Route Stream 2 (Perennial Stream) facing east toward Yadkin River, Figure No. 1).



Photo 4: View of typical golf course pond within proposed sewer collector route. The ponds are hydrologically connected to surface waters and regulated by the USACE.



Taken by: DMP

Checked by: JL

Date: 20140124

SITE PHOTOGRAPHS

Proposed Eastern Davie Sewer Forcemain Route
Davie County, North Carolina



-  Foremain Sewer Centerline
-  Eastern Davie Sewer Centerline
-  Drainage Ditch
-  Existing Access Road
-  Field Identified Streams
-  Field Identified Wetland
-  National Wetland Inventory

REFERENCE:
 GIS DATA LAYER WAS OBTAINED FROM THE NATIONAL HYDROGRAPHY DATASET, NATIONAL WETLAND INVENTORY AND THE DAVIE COUNTY GIS WEBSITE. PLEASE NOTE THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISIONS MADE OR ANY ACTIONS TAKEN BY THE USER BASED UPON THIS INFORMATION.



Surface Water Assessment

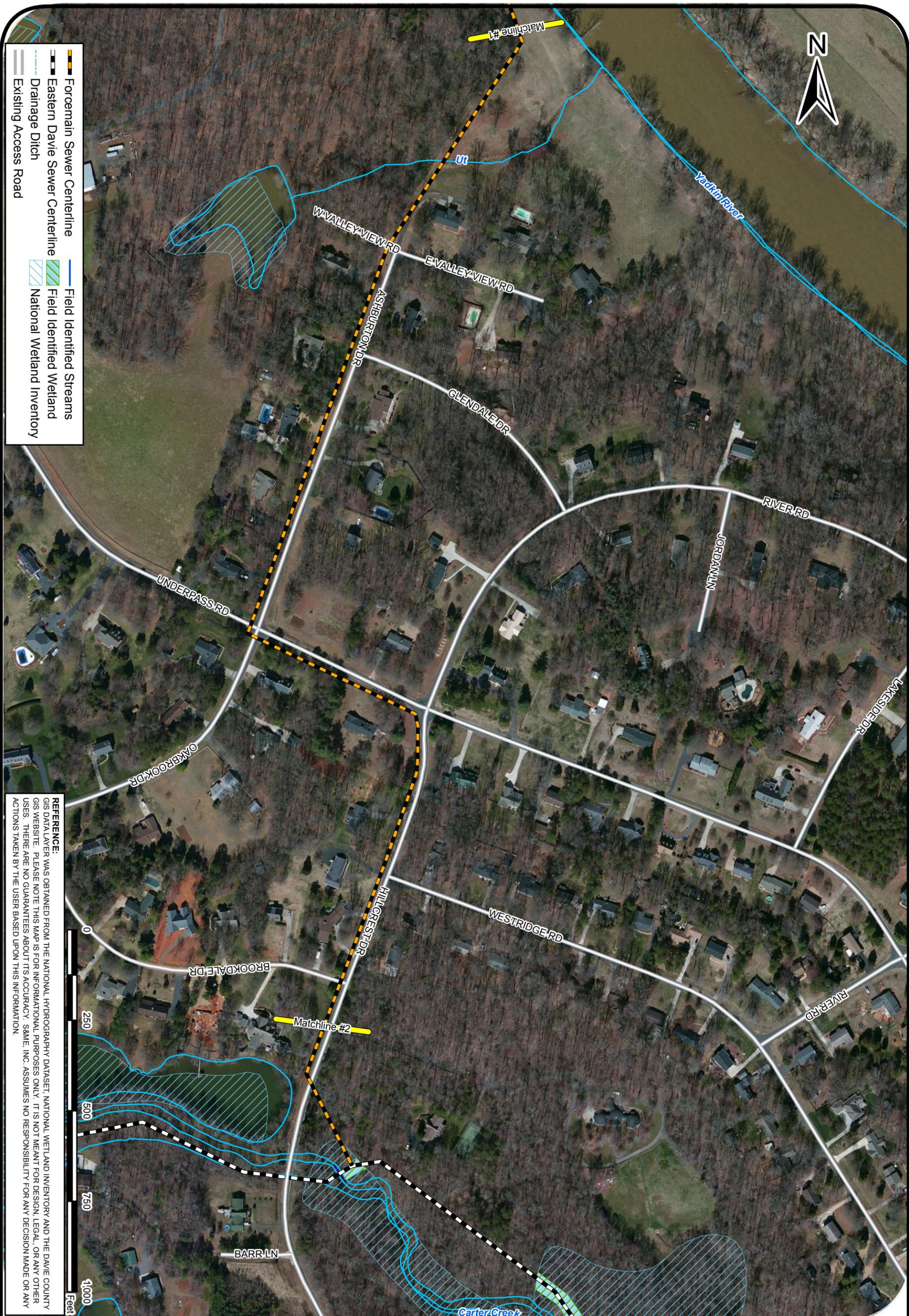
Eastern Davie Sewer Concept
 Davie County, North Carolina



SCALE: AS SHOWN	DATE: 02-06-14
PROJECT NO: 1584-13-104	DRAWN BY: JMD
	CHECKED BY: DMP

FIGURE NO.

1



- Foremain Sewer Centerline
- Eastern Davie Sewer Centerline
- Drainage Ditch
- Existing Access Road
- Field Identified Streams
- Field Identified Wetland
- National Wetland Inventory

REFERENCE:
 GIS DATA LAYER WAS OBTAINED FROM THE NATIONAL HYDROGRAPHY DATASET, NATIONAL WETLAND INVENTORY AND THE DAVIE COUNTY GIS WEBSITE. PLEASE NOTE THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISIONS MADE OR ANY ACTIONS TAKEN BY THE USER BASED UPON THIS INFORMATION.



FIGURE NO.

Surface Water Assessment

Eastern Davie Sewer Concept
 Davie County, North Carolina



SCALE: AS SHOWN
 PROJECT NO: 1584-13-104

DATE: 02-06-14
 DRAWN BY: JMD
 CHECKED BY: DMP

Archived: Monday, October 14, 2013 4:48:46 PM
From: Williams, Kelly
Sent: Monday, October 14, 2013 4:39:48 PM
To: Darrin Peine
Subject: RE: Mitigation Banks - 03040101
Importance: Normal

Darrin-

You will need to visit the NCDWR Website to find out bank locations. EEP doesn't typically list mitigation banks on our Website.

Here is a link to their site- arranges by basin, then huc. The credit type is listed as well, though they do not, for some reason, break out wetland types:

<http://portal.ncdenr.org/web/wq/swp/ws/401/certsandpermits/mitigation>

The link to the bank list is near the end of this page. I am not aware of any that have credits remaining in that huc, but check the list to be sure.

Take care,
Kelly

Let us know how we did: <https://www.surveymonkey.com/s/2013DENRCustomerService>

Kelly Williams
NCEEP In-Lieu Fee Program Coordinator
direct: 919.707.8915

US Postal Service Address:
1652 Mail Service Center
Raleigh, NC 27699-1652

EEP's Raleigh office is located in the N.C. Dept. of Environment and Natural Resources Building at 217 West Jones St., Suite 3000A, Raleigh, N.C. 27603.

[Parking and visitor access information](#) is available on the EEP website.

E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties.

From: Darrin Peine [mailto:DPeine@smeinc.com]
Sent: Monday, October 14, 2013 4:31 PM
To: Williams, Kelly
Subject: Mitigation Banks - 03040101

Hi Kelly – I am looking for some information via the NC EEP website on potential mitigation banks within HUC 03040101. Unfortunately the EEP webpage “mitigation banks” hyperlink directs me to a USEPA website!

Do you have the name of a bank that serves that HUC or other information regarding potential mitigation options in that HUC?

Thank you!

Darrin M. Peine, QEP

Project Professional / Natural Resources Department Manager



ENGINEERING INTEGRITY.

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Approved Mitigation Banks in North Carolina

List compiled by NC Division of Water Resources to include banks with mitigation credits currently approved and available for sale. The Geographic Service Area (GSA) for a mitigation bank is generally the 8- digit cataloging unit (CU) unless otherwise specified. The GSA for a mitigation bank in the Falls and Jordan Watersheds are generally the Subwatershed. This list does not include mitigation provided by the North Carolina Ecosystem Enhancement In-Lieu Fee Program (NCEEP).

Basin: Cape Fear

Bank Information

CU: 03030002
Subwatershed: Upper New Hope
Name: Cape Fear Umbrella Bank – Carl Lloyd Parcel
County: Orange
Notes: Credit type: nutrient offset

Contact Information

EBX-EM, LLC
Matt Fisher
909 Capability Drive Suite 3100
Raleigh, NC 27606
(919) 829-9909
(239) 872-1678
Mattfisher@ebxusa.com

CU: 03030002
Subwatershed: Upper New Hope
Name: Cape Fear Umbrella Bank – Ivey Ferguson
County: Orange
Notes: Credit type: nutrient offset

EBX-EM, LLC
Matt Fisher
909 Capability Drive Suite 3100
Raleigh, NC 27606
(919) 829-9909
(239) 872-1678
Mattfisher@ebxusa.com

CU: 03030002
Name: Cripple Creek Stream and Wetland Bank
County: Alamance
Notes: Credit type: stream

Restoration Systems, LLC
Tara Disy Allden
1101 Haynes Street, Suite 211
Raleigh, NC 27604
(919) 334-9119
tallden@restorationsystems.com

CU: 03030002
Name: Bass Mountain Stream Bank
County: Alamance
Notes: Credit types: wetlands, stream

Restoration Systems, LLC
Tara Disy Allden
1101 Haynes Street, Suite 211
Raleigh, NC 27604
(919) 334-9119
tallden@restorationsystems.com

CU: 03030004 (partial)
Name: Barra Farms Phase II Wetland Mitigation Bank
County: Cumberland
Notes: Credit types: wetlands

Restoration Systems, LLC
Tiffani Bylow
1101 Haynes Street, Suite 211
Raleigh, NC 27604
(919) 334-9123
tbylow@restorationsystems.com

CU: 03030005 (partial)
Name: Barra Farms Phase II Wetland Mitigation Bank
County: Cumberland
Notes: Credit types: wetlands

Restoration Systems, LLC
Tiffani Bylow
1101 Haynes Street, Suite 211
Raleigh, NC 27604
(919) 334-9123
tbylow@restorationsystems.com

Basin: Catawba

Bank Information

CU: 03050103
Name: Charlotte Umbrella Stream and Wetland
County: Mecklenburg
Notes: Credits may be available to local agencies in the City of Charlotte and Mecklenburg County; Credit types: wetlands, stream

Contact Information

Charlotte-Mecklenburg Storm Water
Jarrod Karl
600 East 4th Street
Charlotte, NC 28202
(704) 432-0966
jkarl@ci.charlotte.nc.us

Basin: French Broad

Bank Information

CU: 06010105
Name: Wash Creek
County: Henderson County
Notes: 06010105
Credit types: Stream

Contact Information

French Broad Mitigation Partners
Clement Riddle
224 S. Grove Street, Suite F
Hendersonville, NC 28792
(828) 698-9800
clement@cwenv.com

Basin: Lumber

Bank Information

CU: Service Area
Name: Stone Farm Regional Mitigation Bank
County: Brunswick
Notes: Service area contains specified 14-digit HUCs in 03040206 & 03040207; Credit types: wetlands, stream

Contact Information

OIB Developing
Coleman Ramsey
15 Causeway Drive
Ocean Isle Beach, NC 28469
(910) 279-6603
oibdevelopment@oibdevelopment.com

Basin: Neuse (Inside of the Falls Lake Watershed)

CU: 03020201
Subwatershed: Upper Falls
Name: Hatley
County: Person
Notes: Credit types: riparian buffer, nutrient offset

Environmental Banc & Exchange, LLC
Matt Fisher
909 Capability Drive, Suite 3100
Raleigh, NC 27606
(919) 829-9909(Office)
(239) 872-1678 (Cell)
Mattfisher@ebxusa.com

CU: 03020201
Subwatershed: Lower Falls
Name: Ezell
County: Granville
Notes: Credit types: riparian buffer, nutrient offset

Environmental Banc & Exchange, LLC
Matt Fisher
909 Capability Drive, Suite 3100
Raleigh, NC 27606
(919) 829-9909(Office)
(239) 872-1678 (Cell)
Mattfisher@ebxusa.com

CU: 03020201
Subwatershed: Upper Falls
Name: Forrest Creek UT-2
County: Orange
Notes: Credit types: nutrient offset

Environmental Banc & Exchange, LLC
Matt Fisher
909 Capability Drive, Suite 3100
Raleigh, NC 27606
(919) 829-9909 (Office)
(239) 872-1678 (Cell)
Mattfisher@ebxusa.com

CU: 03020201
Subwatershed: Upper Falls
Name: Cedar Grove
County: Orange
Notes: Credit types: riparian buffer, nutrient offset

Environmental Banc & Exchange, LLC
Matt Fisher
909 Capability Drive, Suite 3100
Raleigh, NC 27606
(919) 829-9909 (Office)
(239) 872-1678 (Cell)
Mattfisher@ebxusa.com

CU: 03020201
Name: Forrest Creek Mitigation Bank
County: Orange
Notes: Credit types: stream, riparian buffer

EBX-EM, LLC
Matt Fisher
909 Capability Drive, Suite 3100
Raleigh, NC 27606
(919) 829-9909
(239) 872-1678
Mattfisher@ebxusa.com

Basin: Neuse (Outside of the Falls Lake Watershed)

Bank Information

CU: 03020201
Name: EBX Neuse I - Rudolph
County: Johnston
Notes: Credit types: riparian buffer, nutrient offset

Contact Information

EBX Neuse I, LLC
Matt Fisher
909 Capability Drive, Suite 3100
Raleigh, NC 27606
(919) 829-9909
(239) 872-1678 (Cell)
Mattfisher@ebxusa.com

CU: 03020201
Name: Neu-Con: Westbrook Lowgrounds
County: Johnston
Notes: Credit types: wetlands, stream

Environmental Banc and Exchange
Matt Fisher
909 Capability Drive, Suite 3100
Raleigh, NC 27606
(919) 829-9909 (Office)
(239) 872-1678 (Cell)
Mattfisher@ebxusa.com

CU: 03020201
Name: Pancho
County: Wake
Notes: Credit types: wetlands, stream

Restoration Systems, LLC
Tara Alden
1101 Haynes Street, Suite 211
Raleigh, NC 27604
(919) 334-9119
talden@restorationsystems.com

CU: 03020201
Name: Umbrella Riparian Buffer Bank: Lane Island
County: Wayne

Restoration Systems, LLC
Tiffani Bylow
1101 Haynes Street, Suite 211

Notes: Credit types: riparian buffer, nutrient offset

Raleigh, NC 27604
(919) 334-9123
tbylow@restorationsystems.com

CU: 03020201
Name: Umbrella Riparian Buffer Bank: Wellons Farm
County: Johnston
Notes: Credit types: nutrient offset

Restoration Systems, LLC
Tiffani Bylow
1101 Haynes Street, Suite 211
Raleigh, NC 27604
(919) 334-9123
tbylow@restorationsystems.com

CU: 03020201
Name: Wildlands Neuse Bank: Little River Farm
County: Wayne
Notes: Credit types: riparian buffer, nutrient offset

Wildlands Engineering, Inc.
Robert Bugg
5605 Chapel Hill Road, Suite 122
Raleigh, NC 27607
(919) 851-9986 x 100
rbugg@wildlandseng.com
Mattfisher@ebxusa.com

CU: 03020201
Name: Arrington Bridge
County: Wayne
Notes: Credit types: riparian buffer, nutrient offset

EBX Neuse I, LLC
Matt Fisher
909 Capability Drive, Suite 3100
Raleigh, NC 27606
(919) 829-9909 (Office)
(239) 872-1678 (Cell)
Mattfisher@ebxusa.com

CU: 03020202
Name: Flat Swamp Mitigation Bank
County: Craven
Notes: Credit types: riparian buffer, nutrient offset

Greenvest/Flat Swamp LLC
Robert N. Kessler, Director of Marketing
4405 Dewees Court
Raleigh, NC 27612
(919) 943-3374
Flatswampplc@comcast.net

CU: 03020202
Name: Neu-Con: Casey-King Wetland Mitigation Project
County: Lenoir
Notes: Credit type: wetlands

Environmental Banc and Exchange
Matt Fisher
909 Capability Drive, Suite 3100
Raleigh, NC 27606
(919) 829-9909 (Office)
(239)-872-1678 (Cell)
Mattfisher@ebxusa.com

CU: 03020202
Name: La Grange
County: Craven
Notes: Credit types: riparian buffer, nutrient offset

Greene Environmental Services, LLC
Jeffrey Becker
90 Ham Produce Road
Snow Hill, NC 28580
(252) 747-8200
(919) 215-3899 Cell
jrbecker@bellsouth.net

CU: 03020203
Name: Contentnea-Little Contentnea Creek
County: Greene
Notes: Credit types: riparian buffer, nutrient offset

Greene Environmental Services, LLC
Jeffrey Becker
90 Ham Produce Road
Snow Hill, NC 28580
(252) 747-8200 (Office)
(919) 215-3899 (Cell)
jrbecker@bellsouth.net

CU: 03020203
Name: EBX Neuse I - Nahunta
County: Wayne
Notes: Credit types: riparian buffer, nutrient offset

EBX Neuse I, LLC
Matt Fisher
909 Capability Drive, Suite 3100
Raleigh, NC 27606
(919) 829-9909 (Office)
(239) 872-1678 (Cell)_
Mattfisher@ebxusa.com

CU: 03020203
Name: Neu-Con: Alexander Wetland Mitigation Project
County: Greene
Notes: Credit type: wetlands

Environmental Banc and Exchange
Matt Fisher
909 Capability Drive, Suite 3100
Raleigh, NC 27606
(919) 829-9909 (Office)
(239) 872-1678 (Cell)
Mattfisher@ebxusa.com

CU: 03020204
Name: EBX Neuse I - Marston
County: Jones
Notes: Credit types: riparian buffer, nutrient offset

EBX Neuse I, LLC
Matt Fisher
909 Capability Drive, Suite 3100
Raleigh, NC 27606
(919) 829-9909 (Office)
(239) 872-1678 (Cell)_
Mattfisher@ebxusa.com

CU: 03020204
Name: Brice Creek
County: Craven
Notes: Credit types: wetland (non-riparian)

Coggin Asset Management, LLC
Daniel Coggin
P.O. Box 476
Amory, MS 38821
(662) 825-0058
danielcoggin@att.net

Basin: Pasquotank

Bank Information

CU: 03010205
Name: Great Dismal Swamp Restoration Bank
County: Tyrrell
Notes: Credit type: wetlands

Contact Information

Great Dismal Swamp Restoration Bank
Gloria Nelson
P.O. Box 6186
Chesapeake, VA 23323
(757) 487-3441
vicoacct@eaviola.com

Basin: Tar-Pamlico

CU: 03020103
Name: Evans Ballahack Bank
County: Edgecombe
Notes: Credit types: riparian buffer, nutrient offset

Greene Environmental Services, LLC
Jeffrey Becker
90 Ham Produce Road
Snow Hill, NC 28580
(252) 747-8200 (Office)
(919) 215-3899 (Cell)

jrbecker@bellsouth.net

Basin: White Oak

Bank Information

CU: Service Area
Name: Hofmann Forest Wetland Mitigation Bank
County: Onslow
Notes: Service area defined within 03030001 & 03020106, Onslow Cty; Credit type: wetlands

Contact Information

NCSU College of Natural Resources
Dr. Glenn P. Catts
2023 Biltmore Hall, PO Box 8002
Raleigh, NC 27695-8002
(919) 513-3973
glenn_catts@ncsu.edu

Bank Information

CU: 03030001 (see below)
Name: Bachelors Delight Mitigation Bank
County: Onslow
Notes: Service area is 03030001 excluding 03030001040005, 03030001040010, & 03030001040020; Credit type: stream & wetland

Contact Information

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