

**PRESERVATION PROJECT AND  
BASELINE DOCUMENTATION REPORT**

**Project Name**  
**County, North Carolina**  
**EEP Project Identification Number**  
**River Basin & Cataloging Unit**

**Insert best project photo here**

**Prepared for:**  
**LOGO**  
**NCDENR Ecosystem Enhancement Program**  
**1652 Mail Service Center**  
**Raleigh, NC 27699-1652**



**Prepared by:**

**If applicable:**  
**Insert consultant logo here**

**EEP STAFF NAME OR IF APPLICABLE:**  
**Consulting firm Name**  
**Physical address-City, State Zip Code, Phone Number**  
**Month Day, Year**

## EXECUTIVE SUMMARY

*The Executive Summary should be brief and provide the reader with a high level view of where the site is located and why it is in preservation. It should not be a pre-gurgitation of everything that is found in the later sections of the document.*

**Include the following statement:**

“This preservation report has been written in conformance with the requirements of the following: Federal rule for compensatory mitigation project sites as described in the Federal Register Title 33 Navigation and Navigable Waters Volume 3 Chapter 2 Section § 332.8 paragraphs (c)(2) through (c)(14) and 332.3(h); and NCDENR Ecosystem Enhancement Program In-Lieu Fee Instrument signed and dated July 28, 2010.”

### **Site Description**

|                                     |  |
|-------------------------------------|--|
| Project Name and EEP Project Number |  |
| County                              |  |
| General Location                    |  |
| Basin                               |  |
| Physiographic Region                |  |
| USGS Hydro Unit                     |  |
| NCDWQ Sub-basin                     |  |
| Watershed Planning Information      |  |
| Preservation Mechanism              |  |
| Conservation Values                 |  |
| Option Recordation Date             |  |
| Deed Recordation Date               |  |
|                                     |  |
|                                     |  |
|                                     |  |

| Mitigation Assets                                   |                                  |                  |                      |
|-----------------------------------------------------|----------------------------------|------------------|----------------------|
|                                                     | <i>Cool, Cold or Warm Stream</i> | Riparian Wetland | Non-riparian Wetland |
| <u>Linear feet or acres</u>                         |                                  |                  |                      |
| <u>Restoration Equivalent Credits (assume 10:1)</u> |                                  |                  |                      |
|                                                     |                                  |                  |                      |
| <u>Totals</u>                                       |                                  |                  |                      |

*List of conservation values may include (Significant Natural Heritage Area, critical habitat, protection from future development, buffer for water quality) and specific threat of destruction or adverse modification*

*Deed recordation date may be fee simple deed or conservation easement deed recordation dates*

*Preservation mechanism is either fee simple deed or conservation easement.*

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*Items 1 and 3 may be combined if justified by watershed plan.*

*Item 4.2 should be very brief.*

*Item 4.3.3 should include no more than one paragraph / wetland.*

## PRESERVATION PROJECT GOALS AND OBJECTIVES

*The following Goals and Objectives template is to be used for a project within a Local Watershed Planning Area*

The **PROJECT NAME** Project is located in the **LWP NAME** Local Watershed planning area (**INSERT HYPERLINK**). The Project Site watershed includes Hydrologic Unit Code (HUC) **14 DIGIT HUC** which was identified as a Targeted Local Watershed (TLW) in EEP's **YEAR & RIVER BASIN** River Basin Restoration Priority (RBRP) Plans (**INSERT HYPERLINK**) and (if applicable) is identified in the **LWP NAME** LWP Project Atlas (Atlas Reference Designation).

EEP developed a local watershed plan (LWP) for the **DRAINAGE AREA** sq. mi drainage area that included land use analysis, water quality monitoring and stakeholder input to identify problems with water quality, habitat and hydrology. The **WATERSHED NAME FROM LWP** watershed is characterized as primarily **AGRICULTURAL/RESIDENTIAL/INDUSTRIAL...** and has a history of **LIST TYPE(S) OF PROBLEMS** due to **REASONS FOR ISSUES**. EEP completed the **LWP NAME** LWP in **MONTH & YEAR (INSERT HYPERLINK)**.

The **LWP NAME** LWP identified **LIST STRESSORS (i.e nutrients, streambank erosion and livestock access to streams)** as major stressors within this watershed. The watershed restoration goals found within the LWP that this project addresses includes: **GOALS** (found in the findings and recommendations section of the LWP). If the project was specifically identified in a project atlas, then add the following: The LWP project atlas identified the **PROJECT NAME** Project (**Atlas Reference Designation**) as a **STREAM/WETLAND/BUFFER** preservation opportunity to address **WATERSHED STRESSORS** within the **WATERSHED NAME FROM LWP** watershed.

*(Watershed plans developed by entities other than EEP, local and regional planning documents and Basinwide Assessment Reports may also be referenced here.)*

## PRESERVATION PROJECT GOALS AND OBJECTIVES

*The following Goals and Objectives template is to be used for a project located **within EEP Targeted Local Watershed** but located **outside of an EEP Local Watershed Planning area**.*

EEP develops River Basin Restoration Priorities to guide its activities within each of the state's 54 cataloging units. RBRPs delineate specific watersheds that exhibit both the need and opportunity for wetland, stream and riparian buffer conservation and restoration. These watersheds are called Targeted Local Watersheds (TLWs) and receive priority for EEP planning and preservation project funds. List problems or major stressors as identified in the RBRP.

The YEAR & RIVER BASIN River Basin RBRP identified HUC 14 DIGIT HUC as a Targeted Local Watershed (INSERT HYPERLINK). The watershed is characterized by STATE PERCENTAGE OF PREDOMINATE LAND USE (i.e agriculture...) area with LIST DEGRADED WATERSHED CONDITIONS.

The YEAR & RIVER BASIN River Basin RBRP identified LIST STRESSORS (i.e nutrients, streambank erosion and livestock access to streams) as major stressors within this TLW. The PROJECT NAME Project was identified as a STREAM/WETLAND/BUFFER opportunity to address the following restoration goals of the RBRP for this TLW: GOALS (*found in goals for the TLW and the general CU goals of the RBRP*).

*(Conservation plans developed by entities other than EEP, local and regional planning documents and Basinwide Assessment Reports may also be referenced here)*

## PRESERVATION PROJECT GOALS AND OBJECTIVES

*The following Goals and Objectives template is to be used for projects located outside of EEP Targeted Local Watersheds and outside of EEP Local Watershed Planning areas.*

The PROJECT NAME Project is located in the 8 DIGIT CU Catalogue Unit (CU), in the RIVER BASIN NAME River Basin. The project is not located within an LWP or TLW. However, it does address issues within the watershed. Based on the RBRP (*and other planning documents like the basinwide, or other regional or local plans if applicable*) stressors within this watershed include: STRESSORS. Restoration goals within this riverbasin and 8 digit cataloguing unit include: GOALS.

The PROJECT NAME Project addresses the following watershed restoration goals: GOALS.

## **SITE DESCRIPTION**

### **General Description**

*Site Description (ownership, PIN, Deed Book and Page, past/current/future land use, adjacent/upstream land use site, describe any management plans, preservation plans, conservation measures, City/County zoning classifications, Baseline Documentation Report date should be near or at time of closing. Include utilities, easements, property ownership, site access).*

*One latitude/longitude of the center point of preserved stream(s) or wetland(s) must be included and reported in decimal degrees using the World Geodetic System of 1984 (WGS84) as the required datum.*

### **Directions**

*Provide directions to Project Site*

*[Reference map showing site location, highways and roads, location within the state.]*

## **SITE SELECTION**

*The Site Selection narrative should not exceed one page of text unless it was a project that was originally procured for restoration but is now preservation only. In those cases, provide a brief history of why it is no longer restoration but is still a valuable watershed project as preservation.*

### **Conservation Values**

*Explain why this project is important to preserve. Tie it to the watershed goals and Note special status, as designated by local or other agencies, of any of the site's natural features (i.e. High Quality Waters, Unique Wetlands, etc.) if applicable. Also, if applicable, tie any of the items listed below which were required for HQP preservation justification.*

- *Significant Natural Heritage Element Occurrences and protection status, important habitats (SNHA, critical habitat, habitat protection corridors)*
- *Buffer for water quality & status of protected water, such as Outstanding Resource Water or High Quality Water as identified by the Environmental Management Commission*
- *Lands benefiting existing conserved lands or contained within a corridor planned by a local, regional, or state agency*
- *Lands designated as Unique Wetlands or wetlands of Exceptional Functional Significance by DENR DWQ and DCM*

*Reference any applicable maps*



## Threats of Adverse Modification

*Provide brief discussion of historical condition, site modifications, evolutionary and/or succession trends of the project site and/or watershed which preservation will result in benefit to site and/or watershed.*

## **BASELINE INFORMATION**

### Physical Features

#### Plant and Wildlife Communities

*Describe forest and natural communities located within the easement:*

- *riparian communities*
- *transitional upland communities*
- *presence of any rare natural communities*
- *presence of invasive species*

*If there are unique communities or rare species to highlight, consider developing a map that signifies the location of those.*

#### Jurisdictional Wetlands and Streams

Watershed Summary

Wetland Summary

Reach Summary

*Describe the jurisdictional and aquatic components within the site:*

- *wetland acreages*
- *wetland types*
- *stream footage (intermittent and perennial)*
- *special water quality classifications (HQ waters, 303d list, etc.)*
- *stream reach stability*
  - *BEHI*
  - *Simon Channel Evolutionary Stage (Simon, 1989)*
  - *Bank Height Ratio*
  - *Substrate- dominant & subdominant*
- *riparian buffer widths*

## SITE PROTECTION INSTRUMENT

The land required for stewardship of this mitigation project includes portions of the following parcels. A copy of the land protection instrument(s) is included in Appendix A.

|                | Landowner | PIN | County | Site Protection Instrument | Deed Book and Page Number | Date Option Signed | Date Deed Signed | Acreage protected |
|----------------|-----------|-----|--------|----------------------------|---------------------------|--------------------|------------------|-------------------|
| Parcel A       |           |     |        |                            |                           |                    |                  |                   |
| Parcel B       |           |     |        |                            |                           |                    |                  |                   |
| Parcel C       |           |     |        |                            |                           |                    |                  |                   |
| Parcel D, etc. |           |     |        |                            |                           |                    |                  |                   |

*Note: When available, the recorded document(s) will be provided. If the recorded document(s) are not yet available, the template documents will be provided. Provide reference (appendix x).*

*State: “All site protection instruments require 60-day advance notification to the Corps and the State prior to any action to void, amend, or modify the document. No such action shall take place unless approved by the State.”*

### Encumbrances

*Describe any existing roads or trails and public utility rights-of-way, including electric, sewer, greenway or other trails.*

## DETERMINATION OF CREDITS

*For projects that were originally developed for restoration surveys may be available to delineate credit amounts. For projects that were developed for preservation, stream and wetland surveys are not required. If the credits were not delineated from surveys then state: “Project mitigation assets were assessed through GIS analysis, including aerial photography, followed by field reconnaissance with Global Positioning Systems to validate perennial and intermittent stream lengths and/ or jurisdictional wetland acreages. “*

*State: “All credits are released.” (if acquired prior to July 28, 2010) or  
“All credits will be released upon IRT approval.”(if acquired after July 28, 2010)*

State: “The project service area will be in compliance with the EEP In-Lieu Fee Instrument.”

|                                                                                                                                                                    |                                                   |    |                             |              |                                 |    |                         |                          |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|----|-----------------------------|--------------|---------------------------------|----|-------------------------|--------------------------|-----------------------------|
|                                                                                                                                                                    |                                                   |    |                             |              |                                 |    |                         |                          |                             |
| <b>Project Name, County, River Basin, 8-digit Cataloging Unit</b><br><b>EEP Project Number</b>                                                                     |                                                   |    |                             |              |                                 |    |                         |                          |                             |
| <b>Mitigation Credits*</b>                                                                                                                                         |                                                   |    |                             |              |                                 |    |                         |                          |                             |
|                                                                                                                                                                    | <b>Cool, Cold or Warm Stream</b>                  |    | Riparian Wetland            |              | Non-riparian Wetland            |    | Buffer                  | Nitrogen Nutrient Offset | Phosphorous Nutrient Offset |
| Type                                                                                                                                                               | R                                                 | RE | R                           | RE           | R                               | RE |                         |                          |                             |
| Totals                                                                                                                                                             | NA                                                |    | NA                          |              | NA                              |    | NA                      | NA                       | NA                          |
| *Compensatory mitigation credits are calculated by dividing the stream footage or wetland acreage by 5 unless otherwise indicated in the notes below.              |                                                   |    |                             |              |                                 |    |                         |                          |                             |
| <b>Component Summation</b>                                                                                                                                         |                                                   |    |                             |              |                                 |    |                         |                          |                             |
| Preservation components                                                                                                                                            | <b>Cool, Cold or Warm Stream</b><br>(linear feet) |    | Riparian Wetland<br>(acres) |              | Non-riparian Wetland<br>(acres) |    | Buffer<br>(square feet) | Upland<br>(acres)        |                             |
|                                                                                                                                                                    |                                                   |    | Riverine                    | Non-Riverine |                                 |    |                         |                          |                             |
| Stream Reach 1                                                                                                                                                     |                                                   |    |                             |              |                                 |    |                         |                          |                             |
| Stream Reach 2                                                                                                                                                     |                                                   |    |                             |              |                                 |    |                         |                          |                             |
|                                                                                                                                                                    |                                                   |    |                             |              |                                 |    |                         |                          |                             |
|                                                                                                                                                                    |                                                   |    |                             |              |                                 |    |                         |                          |                             |
| Wetland 1                                                                                                                                                          |                                                   |    |                             |              |                                 |    |                         |                          |                             |
| Wetland 2                                                                                                                                                          |                                                   |    |                             |              |                                 |    |                         |                          |                             |
|                                                                                                                                                                    |                                                   |    |                             |              |                                 |    |                         |                          |                             |
|                                                                                                                                                                    |                                                   |    |                             |              |                                 |    |                         |                          |                             |
| <b>Notes</b>                                                                                                                                                       |                                                   |    |                             |              |                                 |    |                         |                          |                             |
| Standard credit determination: GPS stream centerline and divide by 5. Delineate hydric soils for wetland credits. Do not cut out fingers or hummocks from credits. |                                                   |    |                             |              |                                 |    |                         |                          |                             |
| Include stream thermal regime.                                                                                                                                     |                                                   |    |                             |              |                                 |    |                         |                          |                             |
|                                                                                                                                                                    |                                                   |    |                             |              |                                 |    |                         |                          |                             |

| Jurisdictional Stream Characteristics |              |                          |                     |                         |
|---------------------------------------|--------------|--------------------------|---------------------|-------------------------|
|                                       | Type         | Drainage Area<br>(acres) | USACE Form<br>Score | Length<br>(linear Feet) |
| Reach 1                               | Perennial    |                          |                     |                         |
| Reach 2                               | Intermittent |                          |                     |                         |
|                                       |              |                          |                     |                         |
| Total                                 |              |                          |                     |                         |

| Jurisdictional Wetland Characteristics |                                           |                                                                      |         |
|----------------------------------------|-------------------------------------------|----------------------------------------------------------------------|---------|
|                                        | Type (Riparian,<br>non-Riparian,<br>etc.) | Description<br>(Floodplain<br>depression,<br>seepage slope,<br>etc.) | Acreage |
| Wetland 1                              |                                           |                                                                      |         |
| Wetland 2                              |                                           |                                                                      |         |
|                                        |                                           |                                                                      |         |
| Total                                  |                                           |                                                                      |         |

## LONG-TERM MANAGEMENT PLAN

*State:* “Upon approval for close-out by the Interagency Review Team (IRT), the site will be transferred to the [insert name of responsible party]. This party shall be responsible for periodic inspection of the site to ensure that restrictions required in the conservation easement or the deed restriction document(s) are upheld.”

*Note: If the project is being transferred to NCDENR Division of Natural Resource Planning and Conservation’s Stewardship Program with an endowment, then insert the following language:*

The NCDENR Division of Natural Resource Planning and Conservation’s Stewardship Program currently houses EEP stewardship endowments within the non-reverting, interest-bearing Conservation Lands Stewardship Endowment Account. The use of funds from the Endowment Account is governed by North Carolina General Statute GS 113A-232(d)(3). Interest gained by the endowment fund may be used only for the purpose of stewardship, monitoring, stewardship administration, and land transaction costs, if applicable. The NCDENR Stewardship Program intends to manage the account as a non-wasting endowment. Only interest generated from the endowment funds will be used to steward the compensatory mitigation sites. Interest funds not used for those purposes will be re-invested in the Endowment Account to offset losses due to inflation.

*Note: If the project is being transferred to NCDENR Stewardship Program without an endowment, then insert the following language:*

The NCDENR is currently evaluating the endowment model. Until the evaluation is complete and any changes resulting from the model are implemented, the long-term management of this project will be funded annually.

*NOTE: If other responsible party, insert the following language:*

The [insert name of responsible party] will house the stewardship endowment within a non-reverting, interest bearing account. The account shall be managed as a non-wasting endowment. Interest gained by the endowment fund may be used only for the purpose of stewardship, monitoring, stewardship administration, and land transaction costs (if applicable). Interest funds not used for those purposes will be re-invested in the endowment account to offset losses due to inflation.

### **FINANCIAL ASSURANCES**

*State:* “Pursuant to Section IV H and Appendix III of the Ecosystem Enhancement Program’s In-Lieu Fee Instrument dated July 28, 2010, the North Carolina Department of Environment and Natural Resources has provided the U.S. Army Corps of Engineers Wilmington District with a formal commitment to fund projects to satisfy mitigation requirements assumed by EEP. This commitment provides financial assurance for all mitigation projects implemented by the program.”

### **REFERENCES**

*Include only references that are cited within the document.*

Schafale, M.P. and Weakley, A. S. (1990), *Classification of the Natural Communities of North Carolina, Third Approximation*, NC Natural Heritage Program, Raleigh, NC

*Stream Mitigation Guidelines, April 2003*, US Army Corps of Engineers Wilmington District

Simon, A. 1989. A model of channel response in distributed alluvial channels. *Earth Surfaces Processes and Landforms* 14 (1):11-26.

Site Protection Instrument Figure

**NOTE:**

- *Figure must be in either 8.5"x11" –or- 11"x17" format*
- *Plan view of site with parcel boundaries and site protection instrument boundaries; date of photograph required*
- *This is a view of the parcel(s) with the conservation easement boundary overlaid on it.*

Scale

Site Name

North Arrow

Project Site Vicinity Map

**NOTE:**

- *Map must be in either 8.5"x11" –or- 11"x17" format*
- *Show the state of NC, county, roads, etc. aka location map*

Scale

Site Name, County

North Arrow

Project Site Watershed Map

**NOTE:**

- *Map must be in either 8.5"x11" –or- 11"x17" format*
- *USGS 1:24000 scale topographic map is required*

Scale

Site Name

North Arrow



Aerial photography

**NOTE:**

- *Figure must be in either 8.5"x11" –or- 11"x17" format*
- *Most recent aerial photography is required*
- *Date of Photograph required*
- *Aerial photo, project or conservation easement boundary*
- *Include depiction of all project mitigation assets*

Scale

Site Name

North Arrow

## Soils (NRCS)

*NOTE: Only include soils map if wetland credits are claimed.*

- *Figure must be in either 8.5"x11" –or- 11"x17" format*
- *Provide historical aerials, as is necessary, to depict historical beaver activity, date of photograph(s) required*
- *Color coded by soil*
- ***If wetland credits exist on this project, show wetland determination with soils on a separate map, labeled "Determination Map"***

*Note: do not include photos here if the attached baseline documentation report includes photos.*

Note: The IRT has requested prolific number of photographs to sufficiently depict the site conditions.

|                                                                                                                                                                 |                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Site Photograph with caption</p> <p>NOTE: caption should provide context for the photo (e.g. channel condition); include date and location of photograph</p> | <p>Site Photograph with caption</p> <p>NOTE: caption should provide context for the photo (e.g. channel condition); include date and location of photograph</p> |
| <p>Site Photograph with caption</p> <p>NOTE: caption should provide context for the photo (e.g. channel condition); include date and location of photograph</p> | <p>Site Photograph with caption</p> <p>NOTE: caption should provide context for the photo (e.g. channel condition); include date and location of photograph</p> |
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**APPENDIX A**  
**SITE PROTECTION INSTRUMENT(S)**

Parcel A. Recorded Conservation Easement or Deed Restriction  
Parcel B. Recorded Conservation Easement or Deed Restriction  
Etc.

## **APPENDIX B**

### **BASELINE DOCUMENTATION REPORT**

*Note: Attach a baseline documentation report at Appendix B if such a report has already been completed as part of the project development.*

**APPENDIX C**  
**STREAM & WETLAND FORMS**

*Note: Attach a baseline documentation report at Appendix B if such a report has already been completed as part of the project development.*