

Wetland Mitigation Considerations

CESAS-RD / 28Apr2014

The following is a living document subject to change at any time. For the most up to date version: <http://www.sas.usace.army.mil/Missions/Regulatory/PolicyProcedures.aspx>

Action ID: _____

Project Name: _____

County: _____

Location: _____

Lat/Long (decimal degrees): _____

Ecoregion (per Griffith, et.al. 2002): _____

Required attachments:

- General location map
- NHDPlus map depicting location of project in watershed
- LiDAR map of the project site
- Web Soil Survey soils map of the project site

Prepared By: _____

Date

I. Introduction

A. Is a Department of the Army permit required for this project? YES / NO

Type: _____

B. Type of proposed project (check all that apply / See 33CFR Part 332.2 for definitions):

___Re-establishment ___Rehabilitation ___Establishment ___Enhancement ___Preservation

C. Has a watershed evaluation/analysis been undertaken? YES / NO

Describe: _____

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D. Describe Site Selection Criteria: _____

E. Has a waters and wetlands delineation been undertaken and verified by the U.S. Army Corps of Engineers for the site? **YES / NO**

F. HGM Wetland Class(es): _____

G. Has an HGM Assessment been undertaken? (Attach Report) **YES / NO**

Describe the site's compromised function(s): _____

H. Is there a Stream component to the project? **YES / NO**

Describe: _____

I. Will Essential Fish Habitat (EFH) resources be affected? **YES / NO**

Describe: _____

J. Will Federally Threatened or Endangered Species or designated **Critical Habitat(s)** be affected? **YES / NO**

Describe: _____

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K. Will State Listed Protected and Rare Species be affected? YES / NO

Describe: _____

L. Will Anadromous Fish or similar aquatic species be affected? YES / NO

Describe: _____

M. Do Cultural Resources exist on the site? YES / NO

Describe: _____

N. Do any Haz/Tox issues exist on the site? YES / NO

Describe: _____

II. The Foundation

A. Describe project GOALS^{SMART}: _____

B. Describe Target FUNCTIONS^{SMART}: _____

Are these Specific/Measurable/Attainable/Reasonable/Trackable? YES / NO

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C. Proposed **STRUCTURAL^{SMART}** elements of the project:

1. **Reference Ecosystem** (RE) report prepared that evaluates vegetation, soils, hydrology, functions, and hydrogeomorphic considerations? **YES / NO**

Describe comparison between the RE and the Mitigation Site: _____

2. **Vegetation**

a. Are plantings listed to species? **YES / NO**

b. Are local propagules (200 miles north/south) to be planted and **verified by nursery certificate**? **YES / NO**

c. Have diversity and density of species within the Reference Ecosystem been considered in the plan? **YES / NO**

d. Does the planting plan include **zonal** considerations? **YES / NO**

e. Will the wetland / upland interface be planted with suitable transition zone species? **YES / NO**

Describe the **Planting Quality Assurance / Quality Control Plan**: _____

3. **Soils**

a. Has an **onsite soils assessment** been undertaken? **YES / NO**

b. List Soil Series and Textures: _____

c. Are soil types appropriate for the target wetland? **YES / NO**

Describe: _____

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d. **Fertility sampling** undertaken in the RE? (Attach Report) **YES / NO**

e. Fertility sampling undertaken in the mitigation site?
(Attach report) **YES / NO**

f. Are the fertility results within the standards for the plantings? **YES / NO**

Describe results/amendments required: _____

g. If **PC Cropland**, has site been evaluated for plow pans,
field crowns, tile drainage system? **YES / NO**

Describe findings and strategies to address: _____

h. Is **disking/topsoil management** proposed? **YES / NO**

Describe: _____

i. Is there a **grading plan**? (Attach) **YES / NO**

Describe: _____

4. Hydrology

a. Has a **Water Budget** been prepared for low, average and
high conditions per WETS Table data? (Attach Report) **YES / NO**

Describe and justify type of water budget model used: _____

b. List the **hydrologic inputs**: _____

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c. For **groundwater driven systems**, monitoring wells are required to be installed and maintained pursuant to the most recent ERDC Technical Note.

Describe type of wells and maintenance plan: _____

d. For **surface water driven systems**, flood gauges are required to be installed.

Describe type of gages and maintenance plan: _____

e. Is the **hydrologic regime** predicted by the water budget appropriate for the target wetland? **YES / NO**

Are these Specific/Measurable/Attainable/Reasonable/Trackable? **YES / NO**

III. Performance Standards^{SMART}

A. Vegetation: _____

B. Hydrology: _____

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C. **Soils:** _____

Are these Specific/Measurable/Attainable/Reasonable/Trackable? YES / NO

IV. Monitoring^{SMART}

A. **Name and telephone number of the person** responsible for the success of this project:

B. Describe **Vegetation** monitoring plan: _____

C. Describe **Hydrology** monitoring plan: _____

D. Describe **Soils** monitoring plan: _____

E. **As-Built Report** to be submitted within 30 days of project construction? **YES / NO**

F. Date **Annual Monitoring Report** to be submitted: _____

Are these Specific/Measurable/Attainable/Reasonable/Trackable? YES / NO

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V. Consideration of Factors of Failure^{SMART}

A. Describe how the following have been considered for this project:

1. **Elevations**/biological benchmarks: _____

2. Provisions for **Drainage**: _____

3. **Erosion**: _____

4. **Human Impacts**: _____

5. **Noxious species** invasion: _____

6. **Herbivory**: _____

7. **Beaver Impacts**: _____

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B. Are persistent earthen features proposed for the project? [berms, dikes, excavated areas with spoil placed within the project site (*creation* of “microtopography”), etc.] **YES / NO**

Describe/Justify: _____

Are these Specific/Measurable/Attainable/Reasonable/Trackable? YES / NO

VI. Site Management^{SMART}

A. Describe the analysis and consideration of potential impacts to the mitigation site that may occur from changes in upstream and adjacent land use: _____

B. Describe **Adaptive Management** strategies: _____

C. Describe proposed **Financial Assurances**: _____

D. Describe the **Final Disposition** of the property and protection mechanism(s): _____

E. Describe the **Long Term Management / Stewardship Plan** for the property and how funded: _____

F. Name and phone number of the person who will manage the site after the mitigation effort is deemed successful?

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NOTES:

****Highlight and address all problems and/or inadequacies
with the proposal as indicated by this checklist****