

*Appendix A:*  
*Sugarland Run Oil Spill Restoration Project List*

**I. SUGARLAND RUN LOST ECOLOGICAL SERVICES**

**Proposed Project:** Aquatic Habitat Enhancement

**Location:** Sugarland Run near Sunset Business Park, west of Fairfax Co. Parkway between Dulles Toll Road and Spring Street (Area B1-1).

**Ownership/Management:** INVESTIN Real Estate Development/Ed Nachazel, Reston, VA

**Performance Objectives:** Enhance aquatic habitat services within a portion of Sugarland Run by 80% by increasing both water quality improvement and fish and wildlife habitat functions of 2.9 acres of stream and riparian habitat over a 20 year project lifespan.

**Project Description:** The proposed aquatic habitat enhancement project will restore eroding streambanks and re-establish a vegetated riparian buffer along a developed/developing portion of Sugarland Run. Vegetative "bioengineering" techniques will be used to 1) repair a severely eroding section of streambank (outside meander bend, western bank), 2) prevent the expansion of a newly forming side-channel, and 3) protect less eroded streambanks from further damage. Planned bioengineering treatments include grading selected areas of streambank; boulder placement; installation of fascines (bundles of unrooted cuttings), unrooted cuttings/live stakes, coconut fiber "logs", and erosion control matting; transplanting native, nursery-grown herbaceous vegetation; and seeding with a native grass seed mixture for rapid stabilization. Re-establishment of riparian buffer will be achieved by planting low-growing native shrubs and trees within a 50' buffer zone on each side of Sugarland Run in areas where shrubs and/or trees are not already growing. In riparian areas where bioengineering is planned, shrubs will be planted shoreward of the bioengineering areas. Appropriate bottomland/floodplain species possessing high wildlife value (i.e., production of hard or soft mast, edible seeds/browse, cavities, etc.) will be selected. All trees and shrubs planted will be nursery-grown, containerized rooted seedlings. The proposed project will enhance aquatic habitat by 1) reducing sediment inputs from streambank erosion, 2) improving habitat diversity and cover, 3) increasing food sources, 4) moderating temperature and light by shading, and 5) improving water quality through reduction of non-point source pollutants entering Sugarland Run. Implementation of this project is subject to obtaining access to the site.

**Project Size:** 2.9 acres

**Proposed Project:** Forest Enhancement

**Location:** Sunset Business Park, between Fairfax County Parkway and Sugarland Run from Dulles Toll Road to Spring Street (Area B1-3).

**Ownership/Management:** State of Virginia, Virginia Department of Transportation/Virginia Power Company (portion of site within transmission line right-of-way easement)

**Performance Objectives:** Enhance wildlife habitat services of 2.4 acres of early successional/right-of-way habitat by 50% over a 35 year project lifespan.

**Project Description:** The proposed forest enhancement at this site will consist of planting shrubs and some trees in a managed right-of-way located between Sugarland Run and the Fairfax County Parkway. A diverse mixture of native shrubs and scattered hardwood trees will be planted on the site. Species with high wildlife food and/or cover value will be specified. All tree and shrub seedlings will be nursery-grown, containerized rooted seedlings. Planting trees and shrubs will 1) increase the number of vegetation layers present, 2) improve habitat diversity, and 3) enhance food and cover value of vegetation for birds and small mammals. Portions of this enhancement project will encroach upon an existing Virginia Power Company transmission line right-of-way easement and are, therefore, subject to certain design restrictions imposed by Virginia Power Company. However, these design restrictions are not anticipated to significantly alter the proposed enhancements or the benefits they will provide.

**Project Size:** 2.4 acres

**Proposed Project:** Aquatic Habitat Enhancement

**Location:** Unnamed tributary to Sugarland Run west of Fairfax County Parkway, between Dulles Toll Road and Fairbrook Drive (Area B2-1)

**Ownership/Management:** Fairbrook Business Park Association/Virginia Power Company (portion of site within transmission line right-of-way easement)

**Performance Objectives:** Enhance aquatic habitat services within portions of a headwater tributary to Sugarland Run by 80% by increasing both water quality improvement and fish and wildlife habitat functions of 0.2 acres of stream and riparian habitat over a 20 year project lifespan.

**Project Description:** The proposed aquatic habitat enhancement at this site will consist of vegetative streambank stabilization and re-establishment of a vegetated riparian buffer along portions of an unnamed tributary to Sugarland Run. Vegetative streambank stabilization will be achieved using bioengineering techniques such as facines and unrooted cuttings. Where necessary, streambanks may be graded to reduce slope. If necessary, jute matting or other erosion control material will be placed on newly graded banks and seeded with a native grass seed mixture to provide stabilization until woody vegetation becomes established. Shrub seedlings will be planted behind the bioengineering treatments on both sides of the tributary. Native species with high wildlife food and/or cover value will be selected. All shrubs will be nursery-grown, containerized rooted seedlings. The proposed project will enhance aquatic habitat by 1) reducing sediment inputs from streambank erosion, 2) improving habitat diversity and cover, 3) increasing food sources, 4) moderating temperature and light by shading, and 5) improving water quality through reduction of non-point source pollutants. Portions of this enhancement project may encroach upon an existing Virginia Power Company transmission line right-of-way easement and may, therefore, be subject to certain design restrictions imposed by Virginia Power Company. However, these design restrictions are not anticipated to significantly alter the proposed enhancements or the benefits they will provide. Project implementation is subject to obtaining access to this site.

**Project Size:** 0.2 acres

**Proposed Project:** Wetlands Enhancement

**Location:** West of Fairfax County Parkway, between Dulles Toll Road and Fairbrook Drive (Area B2-2)

**Ownership/Management:** Fairbrook Business Park Association/Virginia Power Company (portion of site within transmission line right-of-way easement)

**Performance Objectives:** Enhance wildlife habitat services within 0.5 acres of existing wetlands by 10% over a project lifespan of 8 years.

**Project Description:** The proposed wetlands enhancement at this site will consist of planting clusters of wetland shrubs in the existing wetland area downstream of the beaver pond. Wetland shrub species with high wildlife food and/or cover value will be selected. All wetland shrubs will be nursery-grown, containerized rooted seedlings. The addition of shrubs to the existing wetland is designed to enhance wildlife habitat value by improving both vertical and horizontal plant diversity. Planting clusters of wetland shrubs will 1) increase the number of wetland types present, 2) increase the number of vegetation layers present, 3) increase interspersions of vegetation classes, and 4) enhance food and cover value of vegetation for birds and small mammals. Portions of this enhancement project will encroach upon an existing Virginia Power Company transmission line right-of-way easement and are, therefore, subject to certain design restrictions imposed by Virginia Power Company. However, these design restrictions are not anticipated to significantly alter the proposed enhancements or the benefits they will provide. Project implementation is subject to obtaining access to this site.

**Project Size:** 0.5 acres

**Proposed Project:** Wetlands Enhancement

**Location:** Runnymede Park, east of Cavendish Street and Criton Court (Area D).

**Ownership/Management:** Town of Herndon, VA

**Performance Objectives:** Enhance water quality improvement services within 1.2 acres of existing freshwater wetlands by 10% over an 8 year project lifespan.

**Project Description:** The proposed wetlands enhancement at this site will consist of increasing the water quality improvement functions of two existing wetland areas by stabilizing water levels and promoting sheet flow (vs. channelized flow) of surface water through the wetlands. Sheet flow will be promoted by installing a single level spreader at the upstream end of each wetland area. Level spreaders will consist of low weir structures constructed from pressure-treated lumber or large logs placed across the width of each wetland, perpendicular to the direction of flow. Shallow pools (4-8 inches) will form on the upstream side of each structure. Since the elevation of the spreader is level across its width, the ponded water will spill evenly over the spreader across the entire width of the wetland, thereby maximizing contact between water and vegetation. Existing channels downstream of the spreaders will be backfilled or plugged, and adequate measures will be taken to ensure that spreaders will not be undermined by erosion or scour during high flow events.

Water levels (i.e., hydroperiod) within the two wetlands will be stabilized and lengthened by installing water control structures in both the upper and lower wetland areas. In their current state, these wetlands are subject to summertime drawdown and a subsequent reduction in pollutant filtering capacity. Adjustable water control structures (i.e., flashboard risers) will be installed at outflow points in each wetland. The use of adjustable water control devices will enable the creation of permanent shallow water pools in each wetland (which maximizes pollutant removal by settling), while retaining the option to manipulate water levels as necessary. A total of three (3) flashboard risers will be installed (two in upstream wetland and one in downstream wetland).

**Project Size:** 1.2 acres

**Proposed Project: Wetlands Enhancement**

**Location:** Sugarland Run Stream Valley Park, east of Dranesville Road near the intersection with Sugarland Road (Area H1-1).

**Ownership/Management:** Fairfax County, VA, Fairfax County Park Authority.

**Performance Objectives:** Enhance wildlife habitat services within 3.1 acres of existing wetlands by 10% over a project lifespan of 8 years.

**Project Description:** The proposed wetlands enhancement at this site will consist of planting clusters of wetland shrubs in the existing area of wet meadow/marsh habitat. Approximately 10 clusters of nursery-grown shrub seedlings will be planted randomly throughout the existing wetland area. Each cluster will be 30-40' in diameter and contain 25-35 shrubs each. Wetland shrub species with high wildlife food and/or cover value will be selected. All wetland shrubs will be nursery-grown, containerized rooted seedlings. The addition of shrubs to the existing wetland is designed to enhance wildlife habitat value by improving both vertical and horizontal plant diversity. Planting clusters of wetland shrubs will 1) increase the number of wetland types present, 2) increase the number of vegetation layers present, 3) increase interspersion of vegetation classes, and 4) enhance food and cover value of vegetation for birds and small mammals.

**Project Size:** 3.1 acres

**Proposed Project:** Forest Enhancement

**Location:** Sugarland Run Stream Valley Park, east of Dranesville Road near the intersection with Sugarland Road (Area H1-2).

**Ownership/Management:** Fairfax County, VA, Fairfax County Park Authority.

**Performance Objectives:** Enhance wildlife habitat services within 4.5 acres of early successional, "old field" habitat by 50% over a project lifespan of 35 years.

**Project Description:** The proposed forest enhancement at this site will consist of reforestation of early successional "old field" habitat. Invasive non-native vegetation present at the site (multiflora rose & autumn olive) will be removed by mechanical cutting and limited use of approved herbicides. A diverse mixture of native bottomland hardwood tree and shrub seedlings will then be planted in open portions of the site. Both trees and shrubs will be planted in order to encourage the development of multiple vegetation layers. All tree and shrub seedlings will be nursery-grown, containerized rooted seedlings. Species with high wildlife food and/or cover value will be planted. Reforestation of this area will enhance habitat for wildlife by 1) increasing the width of the Sugarland Run riparian corridor, 2) improving the vertical diversity of vegetation present, and 3) accelerating the development of mature forest habitat containing a greater diversity of vegetation beneficial to wildlife.

**Project Size:** 4.5 acres

**Proposed Project:** Wildlife Forage Enhancement

**Location:** Algonkian Regional Park, between Sugarland Run and golf course from 10<sup>th</sup> hole fairway to the driving range (Area K/L)

**Ownership/Management:** Northern Virginia Regional Park Authority

**Performance Objectives:** Enhance wildlife forage services of 6.9 acres of existing forest habitat by 30% over a 20 year project lifespan.

**Project Description:** The proposed wildlife forage enhancement at this site will consist of implementing various forest management actions intended to improve the structural diversity and wildlife value of a relatively young, even-aged stand of bottomland forest present at this location. The prescribed management actions, which are described below, will be implemented in specified forest management areas or "blocks" located within the 34 acre forest stand.

Selective thinning will be performed to open or thin the existing canopy in scattered patches throughout the stand. Canopy thinning actions will include small clear-cuts designed to create herbaceous openings with little or no overhead canopy. In addition, selective "snagging" (i.e., intentional killing trees by girdling or herbicide injection) to reduce, but not eliminate, overhead tree canopy will also be performed. Selective thinning will also be used to "release" individual high wildlife value trees (i.e., mast producing) from competition by less valuable neighboring trees. Canopy thinning increases light penetration into the forest understory which, in turn, stimulates growth in the groundcover and shrub layers. Snagging increases both light penetration and the density of snags (i.e., standing dead trees), which provide valuable food sources and nesting/breeding cavities for certain species. Tree and shrub seedlings will be planted in selected canopy thinning or clear cut areas to increase species diversity, promote development of multiple vegetation layers, and/or provide additional wildlife food sources. Planted trees and shrubs will be containerized, nursery-grown rooted seedlings. A limited number of wildlife attractors such as brush piles and bird nesting boxes will be installed as appropriate.

**Project Size:** 6.9 acres (combined area of multiple forest management blocks)



**Proposed Project:** Forest Enhancement

**Location:** Algonkian Regional Park, northwest corner of Lowe's Island (Area M1)

**Ownership/Management:** Northern Virginia Regional Park Authority

**Performance Objectives:** Enhance wildlife habitat and water quality improvement services of 3.6 acres of early successional, "old field" habitat by 50% over a project lifespan of 35 years.

**Project Description:** The proposed forest enhancement at this site will consist of reforestation of abandoned farmland (1990-91) currently under-going "old field" succession. The existing low-diversity, low-value woody and herbaceous vegetation will be removed by mechanical clearing and/or prescribed burning. Following soil preparation (i.e., disking), a diverse mixture of bottomland hardwood trees and shrubs will be planted in a band along the perimeter of the site extending 75' inward from the existing forest edge. An appropriate grass seed mixture will then be applied to the reforestation area to provide soil stabilization. Both trees and shrubs will be planted in order to encourage the development of multiple vegetation layers. All tree and shrub seedlings will be nursery-grown, containerized rooted seedlings. Species with high wildlife food and/or cover value will be specified. Reforestation of this area will enhance habitat for wildlife by 1) increasing the width of the riparian corridor adjacent to Sugarland Run and the Potomac River, 2) improving the vertical and horizontal diversity of vegetation present, and 3) accelerating the development of mature forest habitat containing a greater diversity of vegetation beneficial to wildlife.

**Project Size:** 3.6 acres

**Proposed Project:** Wildlife Forage Enhancement

**Location:** Algonkian Regional Park, northwest corner of Lowe's Island (Area M2)

**Ownership/Management:** Northern Virginia Regional Park Authority

**Performance Objectives:** Enhance wildlife forage services of 2.0 acres of early successional, "old field" habitat by 30% over a project lifespan of 20 years.

**Project Description:** The proposed wildlife forage enhancement at this site will consist of establishing an area of open meadow habitat in the unforested (i.e., center) portion of the reforestation area described above (Area M1). The existing low-diversity, low-value woody and herbaceous vegetation will be removed by mechanical clearing and/or prescribed burning. Following soil preparation (i.e., discing), the meadow establishment area will be seeded with a diverse mixture of high wildlife value native grasses and forbs (i.e., herbaceous non-grass plants/wildflowers). A limited number of wildlife attractors such as brush piles and bird nesting boxes will be installed as appropriate. The proposed meadow establishment will enhance the wildlife forage value of this site by 1) increasing the species diversity of the herbaceous plant community, 2) creating habitat for insect pollinators, 3) increasing production of seeds and browse eaten by wildlife, 4) providing dormant season nesting and escape cover for birds and small mammals, and 5) increasing habitat diversity and edge.

**Project Size:** 2.0 acres

**Proposed Project:** Stormwater Management/Aquatic Habitat Enhancement

**Location:** Spring Branch at Herndon Parkway (preferred)  
Hughes Branch at Dranesville Road (preferred)  
Sugarland Run at Spring Street (preferred)  
Muddy Branch at Sugarland Road (alternate)

**Project Description:** Three structural stormwater management projects will be implemented by Colonial as partial compensation for spill-related impacts to Sugarland Run aquatic habitats. These structural stormwater management projects are provided in conjunction with other non-structural aquatic habitat enhancement projects described previously. Collectively, these projects satisfy the aquatic habitat enhancement requirements outlined in the Habitat Equivalency Analysis.

The proposed stormwater management projects address water *quality* (vs. water *quantity*) impacts resulting from increases in non-point source pollution associated with watershed development and urbanization. Each of these projects involves the creation of structural Best Management Practices (BMPs) designed to improve the water quality of urban stormwater runoff. The proposed water quality BMPs will be created by "retrofitting" culverts at three (3) roadway stream crossings by attaching engineered water control structures. Water control structures will be designed to temporarily impound water within the natural floodplain upstream of the road embankment under specific flow conditions. The impounded water will then be slowly released over a period of several hours following the storm event. As designed, these water quality BMPs will function as extended detention "dry ponds". Water quality improvements derived from extended detention include effective removal of particulate pollutants (i.e., sediment, phosphorus, nitrogen, organic matter--BOD/COD, and trace metals) primarily by settling. Extended detention may also provide *water quantity* control benefits such as peak flow reduction and decreased downstream bank erosion during certain design flows.

The concept of utilizing roadway stream crossings for urban runoff water quality BMPs was proposed by officials from the Fairfax County and Town of Herndon Departments of Public Works. Each of the three proposed stormwater management projects were selected from a list of potential stormwater project options compiled by representatives from these departments at the trustee's request. Final implementation of these stormwater management projects will be contingent upon approval by local and county stormwater agencies, landowners/affected parties, and all applicable regulatory authorities (e.g., Corps of Engineers, etc.). In the event that any one (1) of the preferred stormwater projects cannot be implemented, the alternate stormwater project will be completed. In the unlikely event that any two (2) of the listed stormwater projects cannot be implemented, Colonial and the trustees will resume negotiations to identify suitable alternatives.

**Project Size:** Not Applicable

**Proposed Project:** Sugarland Run Stream Valley Regional Trail

**Location:** Town of Herndon, from Washington & Old Dominion Trail northward along Sugarland Run to Fairfax County Line.

**Project Description:** The proposed trail project is taken from the Town of Herndon's Comprehensive Plan--Master Trails Plan and the Town's FY1997 - 2002 Capital Improvements Program. As planned, the Sugarland Run Stream Valley Regional Trail will be a one (1) mile paved, multi-purpose recreational trail segment connecting the Washington & Old Dominion Trail (W&OD) and the Fairfax County Sugarland Run Trail. The new trail segment is intended for use by pedestrians, bicyclists, in-line skaters, etc., and will be located along Sugarland Run within the town of Herndon, Virginia. At present, travel between the W&OD Trail and the Fairfax County Sugarland Run Trail requires passage along busy urban streets. The southern end of the new trail segment will connect to the W&OD near the intersection with Herndon Parkway, while the northern end of the new segment will connect to the existing Fairfax County Sugarland Run Trail near the southern end of Runnymede Park. The Sugarland Run Stream Valley Regional Trail, therefore, represents a key segment linking regional trail systems in a greenway network serving suburban northern Virginia.

The proposed trail will consist of an 8-foot wide asphalt-paved trail (Fairfax County Public Facilities Manual Type I TX-2 8-foot asphalt trail). The proposed trail alignment includes three stream crossings. Utilization of existing stream crossings is assumed, as is use of the existing foot bridge located at Stuart Woods Apartments. The trail will be designed to minimize potential streambank erosion, structural barriers to passage of stormwater flows, and removal and destruction of natural resources presently established along Sugarland Run.

The proposed trail alignment is located primarily on public land. Private property traversed by the proposed alignment is within the floodplain and is, therefore, most likely unsuitable for development. Although private landowners have not been approached to date, difficulty obtaining permission to use these lands via easement agreements is not anticipated (John Dudzinski, Town of Herndon Urban Forester, pers. comm.).

The Sugarland Run Stream Valley Regional Trail is included in the Master Trails Plan within the Town of Herndon's adopted Comprehensive Plan. The trail has also been included in the Town's FY1997 - 2002 Capital Improvements Program, adopted in 1993. There is no known opposition to this trail. In fact, local organizations, including the Friends of Sugarland Run, Potomac River Greenways, and the Northern Virginia Regional Park Authority, fully support this new trail segment which will enhance the established regional trail network by increasing linkages between existing facilities.

Colonial proposes to facilitate implementation of this project through a cash grant of \$150,000 to the local entity proposing its construction.

**Project Size:** Not Applicable

## II. POTOMAC RIVER LOST USE

**Proposed Project:** Dyke Marsh Wildlife Viewing Facilities

**Location:** Dyke Marsh Wildlife Preserve, near Belle Haven Picnic Area/Marina and the George Washington Memorial Parkway/Mount Vernon Trail, Fairfax County, VA.

**Ownership:** United States Department of Interior, National Park Service, George Washington Memorial Parkway Unit.

**Project Description:** The proposed Dyke Marsh facilities enhancement project will consist of constructing wildlife viewing and wetland interpretation facilities at Dyke Marsh Wildlife Preserve located along the Potomac River in Fairfax County, Virginia. Current access to these wildlife viewing and nature study areas is severely restricted by wetlands.

Proposed improvements at Dyke Marsh focus primarily on construction of a raised boardwalk passing through the sensitive wetland areas. The wetland boardwalk will extend outward from the terminus of the upland trail in a "Y" configuration, pass through both emergent marsh and scrub-shrub wetlands. One of the boardwalk segments will terminate at an observation platform overlooking the Potomac River and Dyke Marsh. A portions of the platform will be slightly elevated (2-3') to improve viewing opportunities. In addition to construction of the boardwalk, improvements to the upland trail leading to the boardwalk will be completed using a timber-edged gravel trail design similar to existing trail segments. One or more interpretive signs will be placed in areas of interest, and limited landscape will be performed near the current trail head.

The Dyke Marsh project will be conducted in collaboration with the National Park Service, George Washington Memorial Parkway Unit. All work will comply with Park Service standards and specifications, as well as all other applicable rules and regulations. The proposed Dyke Marsh project is currently in the conceptual design phase.

**Project Size:** Not Applicable

**Proposed Project:** Great Falls National Park: Rehabilitation of Scenic Overlook #2

**Location:** Great Falls National Park, Fairfax County, VA

**Ownership/Management:** United States Department of Interior, National Park Service

**Project Description:** The proposed facilities enhancement at Great Falls National Park will consist of rehabilitating Scenic Overlook #2. Rehabilitation of the overlook will include expanding and refurbishing the current structure, resulting in a newer, larger decked overlook at this site. In addition, a 4' wide paved, wheelchair accessible path extending from the main trail to the renovated viewing structure will be constructed. Trail construction may require limited grading and removal of boulders depending upon exact trail alignment. In addition to these actions, permanent fencing will be installed to direct visitor traffic to and from the overlook and discourage the use of social trails. Erosion control and limited landscaping will be conducted in the immediate areas surrounding the new construction. Detailed planning and design of the rehabilitation project will be conducted in collaboration with the National Park Service. All work will comply with Park Service standards and specifications, as well as all other applicable rules and regulations (i.e., ADA, etc.).

**Project Size:** Not Applicable

**Proposed Project:** Fletcher's Boathouse Facilities Rehabilitation

**Location:** Chesapeake & Ohio Canal National Historic Park, Washington, D.C.

**Ownership:** United States Department of Interior, National Park Service

**Project Description:** The proposed project focuses on rehabilitation of visitor facilities at Fletcher's Boathouse, including the picnic and boat launch areas. Enhancements to the picnic area will include mulching the defined picnic area with bark chips and repairing and/or replacing picnic tables and free-standing barbecue grills (max. 10 each). The existing boat launching area will be enhanced by limited grading (if necessary) and stabilization with coarse gravel or stone. Erosion control measures in the vicinity of boat launch and picnic area will be performed as necessary. Limited landscape beautification will also be conducted around the picnic and boat launching areas. The Fletcher's Boathouse project will be conducted in collaboration with the National Park Service. All work will comply with Park Service standards and specifications, as well as all other applicable rules and regulations. The proposed Fletcher's Boathouse project is currently in the conceptual design phase.

**Project Size:** Not Applicable

**Proposed Project:** Little Falls Dam Fishway Funding Contribution

**Location:** Little Falls Dam, Potomac River, upstream of Chain Bridge

**Ownership/Management:** United States Army Corps of Engineers

**Project Description:** Compensation for lost recreational fishing will be provided through a funding contribution supporting the construction of a fishway for Little Falls Dam on the Potomac River. The goal of the fishway project is to restore a viable American shad population in the Upper Potomac River by eliminating a major barrier to seasonal migration. Construction of Little Falls Dam over 35 years ago has restricted migration of American shad and other anadromous fishes attempting to return to prime spawning habitat located between Little Falls Dam and Great Falls. This barrier to migration has been cited as the primary factor currently limiting shad populations on the Potomac. Based on information from the U.S. Fish and Wildlife Service and the use of a consumer surplus scaling metric, Colonial's contribution to the fishway project is \$253,314.

**Project Size:** Not Applicable



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*Appendix B:*  
*Work Plan Outline*

Work plans developed in support of implementing the restoration projects described in Appendix A will contain the following information as necessary and appropriate.

Proposed Project

Location

Ownership/Management

Project Description

Goals & Objectives

Site Survey/baseline information

Grading/Earthwork Plan

Construction Specifications

Construction Schedule

Erosion and Sediment Control Plan

Planting Plan

Plant Materials Specifications

Stocking Density

Structural Composition

Species List, Composition and Acceptable Substitutes

Planting Schedule

Site Preparation Specifications

Plant Installation Specifications

Monitoring/Performance Plan

Performance Standards

Monitoring Parameters

Methods and Procedures

Timing

Duration

Corrective Actions (i.e., mid-course corrections)

Reporting Requirements

Construction/Site Drawings (i.e., blueprints, site plan, etc.)