

Project Environmental Scientist

Firm Association

**Wetland Studies and Solutions,
Inc. (WSSI)**

Project Assignment

Environmental Scientist

Years of Experience

With this firm: 8

With other firms: 6

Education:

B.S., Wildlife Management,
Frostburg State University

**Registrations &
Certifications**

2009/HAZWOPER Hazardous
Materials Technician/Certificate
Number 2009060503

2009/Certified Ecologist/
Ecological Society of America

2009/North American
Benthological Society (NABS)
Certified Level 1 Taxonomist: All
Phyla

2009/Registered Small Whorled
Pogonia Surveyor/U.S. Fish &
Wildlife Service

2009/Certified Arborist/
International Society of
Arboriculture (ISA)/ISA Certified
Arborist NO-MA-5057A

2008/Certified Professional
Wetland Delineator/VA/3402
000029

2007/Threatened Endangered
Species Permit/VA/031063

2006/Professional Wetland
Scientist/Society of Wetland
Scientists/1491

2004/Maryland Forest Stand
Delineation Qualified Professional

Ms. Straughan has over fourteen years experience in various aspects of natural resource management both within the private and public sectors. As an environmental scientist with Wetland Studies and Solutions, Inc. (WSSI), Ms. Straughan's primary responsibilities include wetland delineation, stream assessment, mitigation monitoring, and permitting. In addition, Ms. Straughan is responsible for delineating core components for Resource Protection Area (RPA) plans and preparing National Environmental Policy Act (NEPA) documentation when applicable. Aside from Ms. Straughan's work in wetland resources, Ms. Straughan performs forest stand delineations, natural resources inventories, existing vegetation studies, and endangered and threatened species habitat evaluations. Ms. Straughan also completed Rosgen / Wildland Hydrology's stream restoration training courses (Levels I – II).

Prior to joining WSSI, Ms. Straughan was employed with Science & Engineering Associates, Inc. (Fairfax, Virginia) where she developed Integrated Natural Resources Management Plans, Threatened & Endangered/Fish & Wildlife Management Plans, Vegetation Management Plans, Environmental Impact Statements, and Environmental Assessments for the U.S. Air Force Reserve Command and U.S. Air National Guard.

Ms. Straughan's relevant experience includes:

Poplar Point – Washington, DC

Performed wetlands functions, values and condition assessments on the wetlands located at the Poplar Point site using four accepted methods, which included the Delaware Rapid Assessment Procedure, the U.S. Army Corps of Engineers' Highway Method, the Virginia Institute of Marine Science's Technique for the Functional Assessment of Non-Tidal Wetlands in the Coastal Plain of Virginia, and Evaluation of Planned Wetlands. Each wetland was evaluated for its functions, values, and conditions to determine the quality of the wetland compared to reference wetlands located at Huntley Meadows Park in Fairfax County, Virginia. This data was used to determine the adequate mitigation compensation for impacts to the wetlands at Poplar Point. In addition, data was collected on-site listing existing vegetation and wildlife species observed during field work.

Skyland Town Center – Washington, DC

Conducted an existing vegetation evaluation to describe the existing woodlands on the ±19-acre site. This evaluation included forest cover type, age and condition of the tree stands on-site.

Fort Lincoln – Multi-Family Site- Washington DC

Identified and delineated wetlands and Waters of the U.S. (WOUS) for the ±28-acre project in accordance with the U.S. Army Corps of Engineers (USCAE) 1987 Wetland Delineation Manual (1987 Manual). Applied stream evaluation methods developed by the North Carolina Division of Water Quality (NCDWQ) and the Fairfax County Department of Public Works and Environmental Services (DPWES) to determine whether the streams within the study area were ephemeral, intermittent, or perennial.

Aerospace Corporation –Westfields Parcel 35, Fairfax County, Virginia

As a International Society of Arboriculture (ISA) Certified Arborist (#MA-5057A), performed on-site monitoring of tree clearing and tree preservation efforts for Parcel 35 of Westfields in order to ensure conformance with all tree preservation proffers and Urban Forest Management (UFM) approvals. As stated in the Tree Preservation proffers, the Applicant is required to retain the services of a certified arborist to perform on-site monitoring and weekly reporting to Fairfax County UFM to ensure conformance with all tree preservation proffers, and UFM approvals.

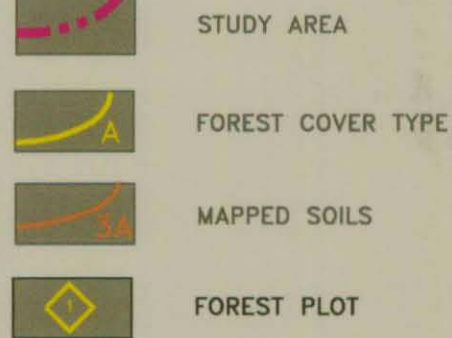
Fort Lincoln Regional Pond – Washington, DC

Identified and delineated wetlands and Waters of the U.S. (WOUS) for the ±3.5-acre project in accordance with the U.S. Army Corps of Engineers (USCOE) 1987 Wetland Delineation Manual (1987 Manual). Applied stream evaluation methods developed by the North Carolina Division of Water Quality (NCDWQ) and the Fairfax County Department of Public Works and Environmental Services (DPWES) to determine whether the streams within the study area were ephemeral, intermittent, or perennial. Coordinated with the U.S. Army Corps of Engineers, Baltimore District and the District of Columbia Department of the Environment, Water Quality Division.

ZONING COMMISSION
District of Columbia
CASE NO.09-03
EXHIBIT NO.62E

SOILS DATA			
No.	SOILS NAME	SLOPE	HYRIC
BeB	BELTSVILLE-URBAN LAND COMPLEX	0-8%	NO
CdD	CHILLUM-URBAN LAND COMPLEX	15-40%	NO
MvD	MUIRKIRK VARIANT COMPLEX	15-40%	NO
U1	UDORTHENTS	---	NO
Ub	URBAN LAND	---	NO

LEGEND



NOTES:

3. Wetland Studies and Solutions, Inc. (WSSI) conducted an existing vegetation evaluation on the Skyland Town Center study area. Field data was conducted by Lynn Straughan and Beth Clements on October 1, 2009.
4. A 2008 Natural Color aerial photograph provided by Aerials Express and mapped soils information provided by USDA SSURGO Digital Data were used as a base for this Attachment.
5. The study area boundary and topography for this site were provided by Bohler Engineering.
6. Three forest cover types are present within the study area. These cover types are as follows:
 - A. Forest Cover Type A, Slippery Elm/Black Locust, occupies ±5 acres in the northern and central portions of the study area. This stand type is a young stand with a basal area of 30 ft²/acre and diameter at breast height (DBH) ranging from 4 to 10 inches. The dominant species are slippery elm (*Ulmus rubra*) - with DBH ranging from 4 to 10 inches and black locust (*Robinia pseudacacia*) - with DBH ranging from 4 to 8 inches. The understory present consists of exotic species such as Japanese honeysuckle (*Lonicera japonica*), amur honeysuckle (*Lonicera maackii*), English ivy (*Hedera helix*), silk tree (*Albizia julibrissin*), multiflora rose (*Rosa multiflora*), and porcelain berry (*Ampelopsis brevipedunculata*). Other species in the understory include poison ivy (*Toxicodendron radicans*), serrate-leaf hollyberry (*Rubus argutus*), and Canada golden-rod (*Solidago canadensis*). The overall health of the stand is poor, with a high amount of woody debris and dead standing trees and dense vines. Also present are piles of fill material and significant trash.
 - B. Forest Cover Type B, Slippery Elm, occupies ±2 acres in the eastern portion of the study area. This young to medium-aged stand has a basal area of 110ft²/acre and a DBH ranging from 5 to 23 inches. The dominant species is slippery elm- with DBH ranging from 5 to 10 inches. Other species present in the canopy include sweet gum (*Liquidambar styraciflua*), Norway maple (*Acer platanoides*), and black locust. The understory is less dense, however still includes exotic species such as English ivy, Japanese honeysuckle, amur honeysuckle, and rose of Sharon (*Hibiscus syriacus*). The overall health of the stand is poor due to the dense English Ivy covering the trees and the presence of fill material.
 - C. Forest Cover Type C, Slippery Elm/Norway Maple/Big-Tooth Aspen, occupies ±1 acre in the northeastern portion of the study area. This medium-aged stand has a DBH ranging from 5 to 9 inches (no basal area was recorded due to the steep slope). Other species present include black cherry (*Prunus serotina*) and black locust. The understory consists of amur honeysuckle, English ivy, and Virginia creeper (*Parthenocissus quinquefolia*). The overall health of the stand is poor due to the dense English Ivy and moderate to high woody debris.
7. The remainder of the site consists of an open field with some scattered big-tooth aspen and willow (*Salix* spp.) trees within the central portion of the study area and a commercial development in the western and southern portions of the study area. The open field area contains piles of concrete and fill material.
8. Potential Specimen Trees - Specimen trees are trees which have certain characteristics which set them apart from other trees within a given stand. Characteristics included (but were not limited to) a tree with a DBH approximately 75% of the state champion. No specimen trees were observed within this study area.
9. Potential Special Trees - Special trees are any trees within the District of Columbia that have a minimum circumference of 55 inches (17.5" DBH). Potential special trees were observed within the study area.
10. Based on the composition of the forest community, including the presence of noxious and/or invasive species, and the amount of fill material within the substrate, no noteworthy vegetative community is present that would restrict the removal of vegetation on this site subject to the requirements of the District of Columbia Code and related municipal regulations.

Limitations

This study is based on examination of the conditions on the study area at the time of our review and does not address conditions in the future. Such conditions change over time. Therefore, our conclusions may vary from future observations. Our existing vegetation evaluation map has been prepared in accordance with generally accepted guidelines for the conduct of such evaluations. We make no other warranties, either expressed or implied, and our evaluation is not a recommendation to buy, sell or develop the property.

We offer no opinion and do not purport to opine on the possible application of various building codes, zoning ordinances, other land use or platting regulations, environmental or health laws and other similar statutes, laws, ordinances, code and regulations affecting the possible use and occupancy of the Property for the purpose for which it is being used, except as specifically provided above. The opinions set forth above are rendered only and exclusively for the benefit of the addressees and no other parties, successors or assigns. The foregoing opinions are based on applicable laws, ordinances, and regulations in effect as of the date hereof and should not be construed to be an opinion as to the matters set out herein should such laws, ordinances or regulations be modified, repealed or amended.

This document is solely for your benefit and is not to be quoted in whole or in part or otherwise referred to in any statement or document (except for purposes of identification) nor is it to be filed with any governmental agency or other person, without the prior written consent of this firm, unless required by law. If you have any questions regarding this report, please call our office at (703) 679-5600.

REVISIONS			
No.	Date	Description	Rev. By App. By
DATE: NOVEMBER 2009			SCALE: 1"=200'

Horizontal Datum: NAD 83

Vertical Datum:

Boundary and Topo Source

BOHLER ENGINEERING

Design	Draft	Ap
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LS	LS	M
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