Attachment K: Natural Resources Inventory Memorandum



MEMORANDUM

81 Mosher Street Baltimore, MD 21217 Phone 410.728.2900 Fax 410.728.2834 www.rkk.com

Date: July 27, 2017

To: Joana Conklin – Montgomery County Department of Transportation (MCDOT)

From: Sarah Falcone – RK&K

CC: Erron Ramsey, Greg O'Hare, and Michelle Harden – RK&K

Re: US 29 Bus Rapid Transit Corridor Planning Study – Natural Resources Inventory

Rummel, Klepper & Kahl, LLP (RK&K) conducted a Natural Resources Inventory (NRI), including wetlands and waters delineation, walk-through forest stand characterization, and tree survey within the project study areas in April 2017. The project is located along 14 miles of US 29 in Montgomery County, Maryland.

The Montgomery County Department of Transportation (MCDOT), in coordination with the Federal Transit Administration (FTA), is proposing a new, 14-mile BRT service along US 29 from the Burtonsville Park and Ride to Silver Spring Transit Center. The project includes new BRT service along existing travel lanes and shoulders; design and construction of eleven station stops along the corridor; implementation of Transit Signal Priority (TSP) at several signalized intersections; and improvements to landscapes, sidewalk, and bicycle facilities. The proposed US 29 BRT Improvements Project service plan includes two routes: 1) Briggs Chaney Park and Ride to Silver Spring Transit Center via Lockwood Drive/ Stewart Lane, and 2) Burtonsville Park and Ride directly to Silver Spring Transit Center (**Appendix A, Figure 1**).

Supplemental information supporting the NRI is included in Appendices A through E, as follows:

Appendix A: Figures

Appendix B: Photographic Record
Appendix C: Tree Inventory Table
Appendix D: Agency Correspondence
Appendix E: Natural Resources Figures

BACKGROUND INFORMATION

RK&K environmental scientists conducted a desktop investigation of mapped information prior to beginning the field investigation. The desktop investigation of the available mapped information identified site topography; vegetative cover; non-tidal waters and wetlands and their associated buffers; 100-year floodplain; and hydric and highly erodible soils. Mapped resources reviewed for this project included:

- The United States Geologic Survey (USGS) Geographic Information System (GIS) Quadrangle Mapping
- The United States Department of Agriculture, Natural Resource Conservation Service (USDA-NRCS) Web Soil Survey (WSS) for Montgomery County, Maryland
- Federal Emergency Management Agency (FEMA) GIS data
- Maryland Department of Natural Resources (MDNR) Wetlands and Waters GIS data

• U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) GIS data

Letters requesting database review for rare, threatened and endangered (RTE) species, fisheries resources, and cultural resources were sent by RK&K to the following agencies:

- Maryland Department of Natural Resources Wildlife and Heritage Section (MDNR-WH)
- Maryland Department of Natural Resources Project Review Division (MDNR-PRD)
- U.S. Fish and Wildlife Service (USFWS)
- Maryland Historical Trust (MHT)

Desktop investigation results are summarized below:

Topography

The elevations within the project study areas range from approximately 226 to 494 feet. The topography within the project study areas is characterized as relatively flat, and gently sloping (**Appendix A**, **Figure 2**).

Geology and Soils

The project study areas are located within the Piedmont Plateau Physiographic Province. This province is composed of hard, crystalline igneous and metamorphic rocks and extends from the inner edge of the Coastal Plain westward to Catoctin Mountain, the eastern boundary of the Blue Ridge Province.

Bedrock in the eastern part of the Piedmont consists of schist, gneiss, gabbro, and other highly metamorphosed sedimentary and igneous rocks of probable volcanic origin. The rocks of the western part of the Piedmont are diverse and include phyllite, slate, marble, and moderately to slightly metamorphosed volcanic rocks. Gently undulating plains underlain by un-metamorphosed bedrock of Triassic red shale, siltstone, and sandstone occur in three areas in the western Piedmont.

The USDA-NRCS Web Soil Survey for Montgomery County identified 10 mapped soil units within the study areas, as shown in **Appendix A, Figures 3a-3k**, with two soils classified as predominately non-hydric, and eight soils classified as non-hydric. (**Table 1**).

Table 1: Mapped Soils

Table 1. Mapped Bons								
Map Unit Symbol	Map Unit Name	*K-Factor	**Hydric Rating	Hydrologic Soil Group	Drainage Class			
1C	Gaila silt loam, 8 to 15 percent slopes	0.43	5	В	Well drained			
2B	Glenelg silt loam, 3 to 8 percent slopes	0.37	0	С	Well drained			
2C	Glenelg silt loam, 8 to 15 percent slopes	0.37	0	В	Well drained			
2UC	Glenelg-Urban land complex, 8 to 15 percent slopes	0.28	0	В	Well drained			
57B	Chillum silt loam, 3 to 8 percent slopes	0.49	0	В	Well drained			
57C	Chillum silt loam, 8 to 15 percent slopes	0.49	0	В	Well drained			

Map Unit Symbol	Map Unit Name	*K-Factor	**Hydric Rating	Hydrologic Soil Group	Drainage Class
59B	Beltsville silt loam, 3 to 9 percent slopes	0.49	0	С	Moderately well drained
61UB	Croom-Urban land complex, 0 to 8 percent slopes	0.20	0	D	Well drained
67UB	Urban land-Wheaton complex, 0 to 8 percent slopes		5	D	
400	Urban land		0	D	

^{*}Erodibility Coefficient – Value assigned to soil types by NRCS. K > 0.35 are considered to be highly erodible soils

100-Year Floodplain

Approximately 45,911 square feet (SF) of Federal Emergency Management Agency (FEMA) 100-year floodplains fall within the project study areas at Station Stop 4 – Burnt Mills, according to Montgomery County FEMA GIS data (**Appendix A, Figures 3a-3k**).

Construction and operations of the project would not have an impact on the existence of 100-year floodplains in the study corridor. The US 29 BRT Project meets the requirements of Executive Order (EO) 13690, Establishing a Federal Flood Risk Management Standard and a Process for Further Soliciting and Considering Stakeholder Input.

Wetlands and Waters of the United States

The project is located within the Anacostia River Watershed (hydrologic unit code 02140205), and waterways in the surrounding area are designated as Use Class IV. The NWI mapping and MDNR GIS wetland mapping do not identify any wetlands or waterways within the project study areas (**Appendix A, Figures 3a-3k**).

Rare, Threatened, and Endangered Species

Requests for information on the presence of fisheries resources and RTE species were sent to the Maryland Department of Natural Resources Project Review Division (MDNR-PRD) and Wildlife and Heritage Section (MDNR-WH) on April 3, 2017. MDNR-WH responded in a letter dated April 26, 2017 that there are records of the Acuminate Crayfish (*Cambarus acuminatus*), a species with In Need of Conservation status in Maryland, documented along the project study corridor at the US 29 crossings over Northwest Branch and Paint Branch. It is encouraged that best management practices for erosion and sediment control are adhered to during any work near these stream crossings in order to reduce the likelihood of adverse impacts to the Acuminate Crayfish and other important aquatic species in these streams. MDNR-PRD responded in a letter dated May 4, 2017 that the project crosses an unnamed tributary to Paint Branch which is classified as a Use I stream, and the Northwest Branch of the Anacostia River which is classified as a Use IV stream, and that in general, no in-stream work may occur in Use I streams from March 1 through June 15 and in Use IV streams from March 1 through May 31. USFWS online database confirmed on March 22, 2017 that no federally proposed or listed threatened or endangered species are known to occur in the project study areas. Agency correspondence documents can be found in **Appendix D**.

^{**}Hydric Rating – Value is based on the percentage of hydric soils within the soil type. Non-hydric soils have a value of 0, predominantly non-hydric soils have a value between 0 and 33, partially hydric soils have a value between 33 and 66, predominantly hydric soils have a value between 66 and 99, and hydric soils have a value of 100.

The proposed project will include construction near the Anacostia River at Station Stop 4— Burnt Mills, and near an unnamed tributary to the Paint Branch at Station Stop 7— Stewart Lane. While it is not anticipated for the US 29 BRT Improvements Project to cross either of these streams, any shifts in the proposed limits of disturbance that would require in-stream work would occur outside of the restricted time windows for spawning fish in Use I and Use IV streams. Additionally, best management practices for erosion and sediment control would be adhered to during any work near these stream crossings in order to reduce the likelihood of adverse impacts to the Acuminate Crayfish and other important aquatic species in these streams.

Cultural Resources

A letter initiating the Section 106 process for the US 29 BRT Improvements Project was sent to the Maryland Historical Trust (MHT) on April 25, 2017. This letter requested concurrence on the Area of Potential Effect (APE), identified historic resources along the study corridor, and determined a finding of No Adverse Effect. MHT concurred with the No Adverse Effect finding in a letter sent on May 25, 2017.

WETLANDS/WATERS OF THE U.S. DELINEATION - Field Investigation/Results

RK&K conducted wetlands and waters delineation within the project study areas in April 2017. No wetlands or waters were identified.

FIELD INVESTIGATIONS

WETLANDS/WATERS OF THE U.S. DELINEATION - Methods

A team of two environmental scientists delineated waters of the U.S., including wetlands, within the project study areas. Wetlands were delineated in accordance with the *U.S. Army Corps of Engineers Wetlands Delineation Manual, Y-87-I* (Environmental Laboratory, 1987); U.S. Army Corps of Engineers. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Eastern Mountains and Piedmont Region Version 2.0, ed., ERDC/EL TR-10-20. Vicksburg, MS: U.S. Army Engineer Research and Development Center Routine wetland determination methods with onsite inspection were used to determine the presence of wetlands in the project study areas.

Waters of the U.S., other than wetlands, were delineated using the limits defined in 33 C.F.R. § 328. The boundaries of non-tidal waters of the U.S. other than wetlands were set at the ordinary high water mark (OHW). The OHW was determined in the field using physical characteristics established by the fluctuations of water (e.g., change in plant community, changes in the soil character, shelving) in accordance with U.S. Army Corps of Engineers Regulatory Guidance Letter No. 05-05.

Clean Water Act jurisdiction of delineated features was determined in accordance with the June 5, 2007 joint guidance issued by U.S. Environmental Protection Agency and U.S. Army Corps of Engineers following the U.S. Supreme Court's decision in the consolidated cases Rapanos v. United States and Carabell v. United States (Rapanos); and the January 19, 2001 joint guidance issued by U.S. Environmental Protection Agency and U.S. Army Corps of Engineers following U.S. Supreme Court's decision in Solid Waste Agency of Northern Cook County v. U.S. Army Corps of Engineers (SWANCC).

FOREST STAND CHARACTERIZATION AND TREE SURVEY - Field Investigation

RK&K did not identify any forest stands within the project study areas. Two hundred and twenty-two individual trees were identified, including six significant trees (\geq 24 inches diameter at breast height (DBH)) and six specimen trees (\geq 30" DBH).

FOREST STAND CHARACTERIZATION AND TREE SURVEY - Methods

The investigation methods for the forest stand characterization and tree survey were based on the Montgomery County Code Chapter 22A, using methodology described in the *Environmental Guidelines, Guidelines For Environmental Management Of Development In Montgomery County* (Maryland-National Capitol Park and Planning Commission (M-NCPPC), 2000); and *Trees, Approved Technical Manual* ((MNCPPC), 1992). The *Trees, Approved Technical Manual* defines a forest as "a biological community dominated by trees and other woody plants covering a land area of 10,000 square feet or greater. Forest includes (1) areas that have at least 100 trees per acre with at least 50% of those having a two-inch or greater diameter at 4.5 feet above the ground and larger; and (2) forest areas that have been cut but not cleared. Forest does not include orchards."

A characterization of forest types and overall conditions was completed for the project study areas using a Walk-Through Forest Stand Analysis datasheet. The forest characteristics recorded include the type of forest community; dominant species in the canopy, understory and herbaceous layer; dominant canopy size class; percent canopy closure; stand successional stage; downed woody debris; invasive species present; invasive species percent cover; and general stand conditions.

An inventory of all stand-alone trees \geq 6" DBH, including significant (\geq 24 inches DBH) and specimen (\geq 30" DBH or 75% of the size of the state champion) trees, was completed within the project study areas. The inventory also included all trees within the state right-of-way (ROW) regardless of size. The tree species, DBH, and condition were recorded for each of the inventoried trees. The condition of each tree was assessed by an ocular estimation of growth form, visible signs of decay, live crown ratio, and indications of disease or insect infestation. Each inventoried tree was numbered consecutively. Data obtained from the field reconnaissance was collected using an iPad and external GPS receiver.

FOREST STAND CHARACTERIZATION AND TREE SURVEY – Results

Inventoried Trees

RK&K inventoried 222 trees, including six significant trees (\geq 24 inches DBH) (**Table 2**) and six specimen trees (\geq 30" DBH) (**Table 3**) within the project study areas. Photographs of the project study areas are located in **Appendix B**, information regarding inventoried trees is summarized in the Tree Inventory Table in **Appendix C**, and the locations of the trees are displayed on the Natural Resources Figures in **Appendix E**.

Table 2. Significant Trees

Tree ID	Scientific Name	Common Name	DBH	Condition
T89	Quercus phellos	Willow oak	26	Fair
T103	Quercus phellos	Willow oak	28	Good/fair
T104	Quercus rubra	Northern red oak	26	Good/fair
T105	Picea abies	Norway spruce	25	Fair
T148	Quercus coccinea	Scarlet oak	27	Fair/poor
T210	Quercus coccinea	Scarlet oak	25	Good/fair

Table 3. Specimen Trees

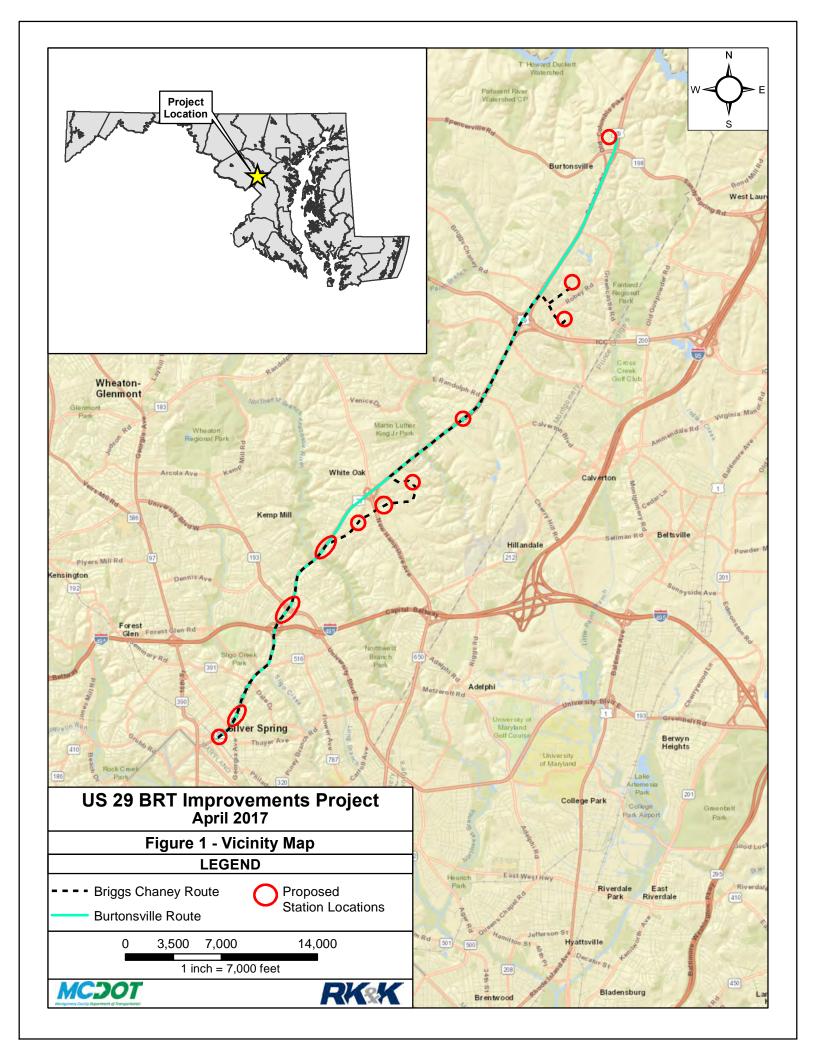
Tree ID	Scientific Name	Common Name	DBH	Condition
T96	Quercus alba	White oak	39	Good
T98	Quercus alba	White oak	39	Good/fair
T99	Quercus rubra	Northern red oak	32	Good/fair
T117	Acer saccharinum	Silver maple	55	Fair/poor

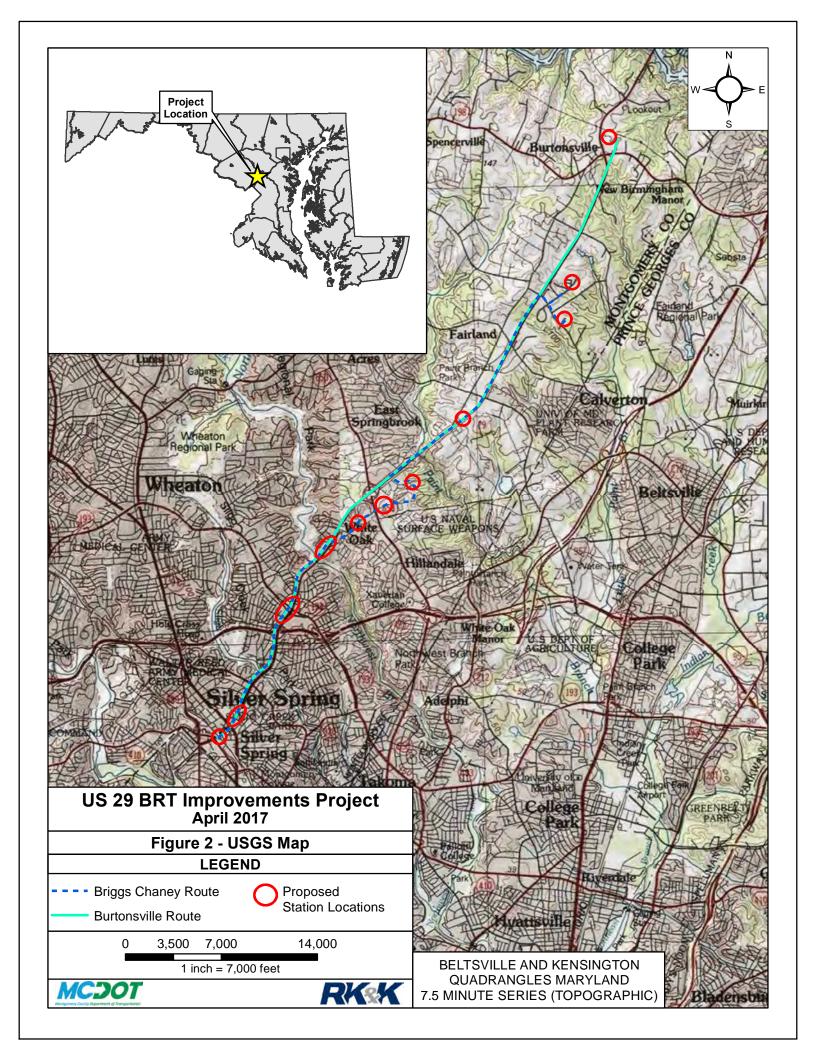
T118	Acer saccharinum	Silver maple	52	Fair
T119	Fraxinus pennsylvanica	Green ash	32	Good/fair

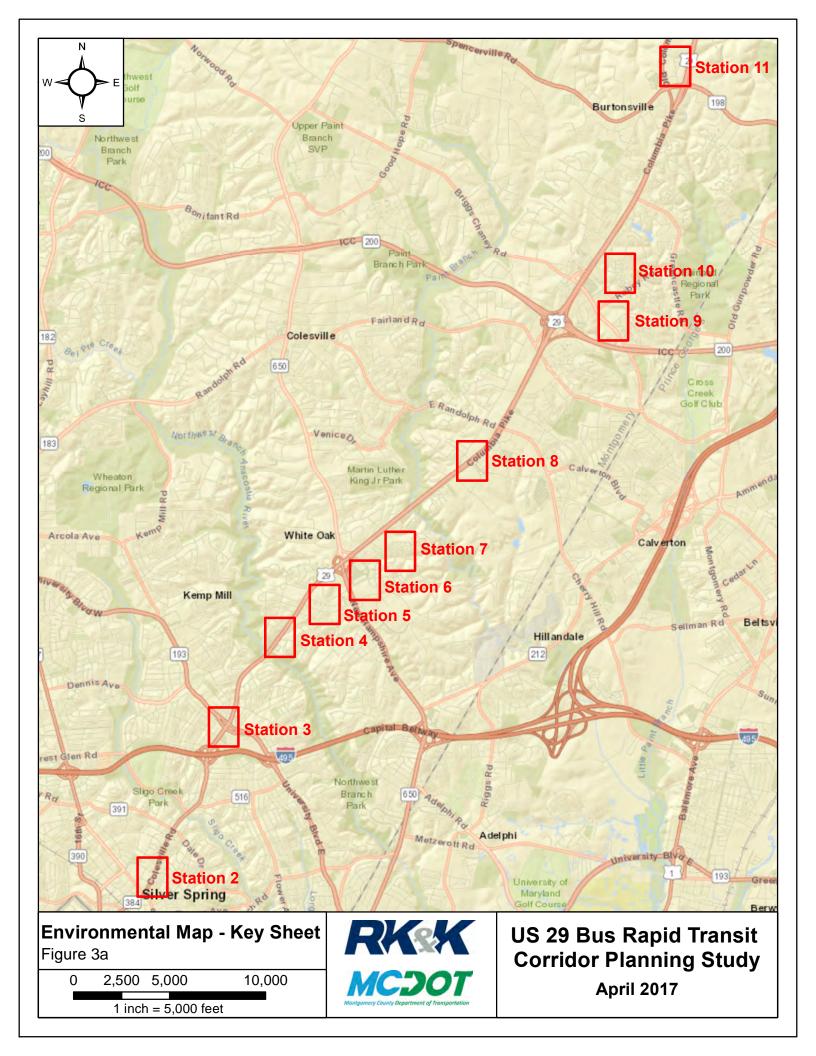
Tree impacts will be avoided and minimized to the greatest extent practicable using tree protection measures as specified in the Maryland-National Capital Park and Planning Commission (M-NCPPC) Trees Approved Technical Manual and the Montgomery County Roadside Tree Protection Law. Tree protection measures may include tree protection fencing, root pruning, branch pruning, and supplemental watering. Critical Root Zone (CRZ) impacts will be limited to one third or less of the total CRZ when possible.

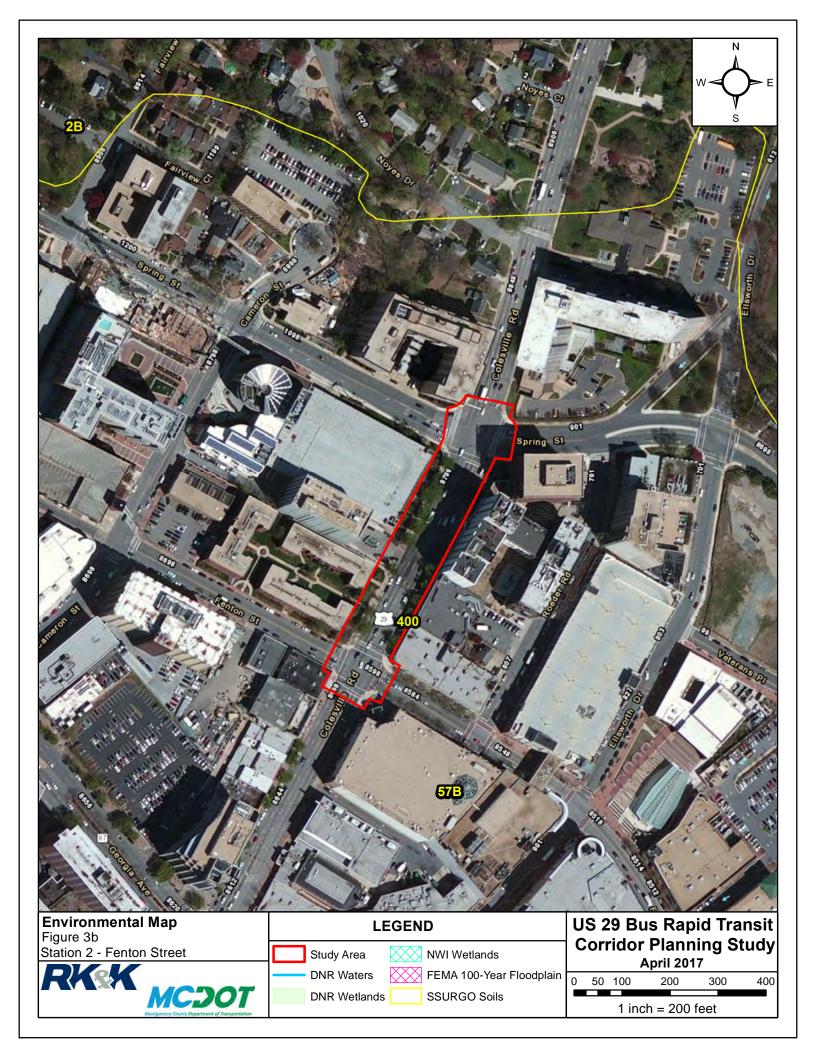
The US 29 BRT Project will be exempt from Forest Conservation Plan submittal requirements under the Montgomery County Chapter 22A - Forest Conservation Law (Section 22A-5e and 22A-9), as a county highway Capital Improvements Project (CIP). Impacts to trees within state and county road ROW will be mitigated in accordance with the Montgomery County Roadside Tree Protection Law and the Maryland Roadside Tree Law. Tree removal within state road ROW will be mitigated 1:1, with the installation of one tree for every tree removed, in accordance with Maryland Department of Natural Resources (DNR) requirements. The Montgomery County Roadside Tree Protection Law requires payment of \$500 into the Montgomery County Department of Transportation (MCDOT) street tree planting fund for removal of roadside trees designated on a MCDOT street tree inventory or ≥6" DBH within the county road ROW, and planting of one tree within the immediate vicinity of the project area as mitigation for the roadside tree removal. An additional fee of \$250 is required for each replacement tree that cannot be planted within the immediate vicinity of the project area. A mitigation planting plan will be developed for tree replacement within the study areas where possible during the final project design stages for review and approval by MCDOT.

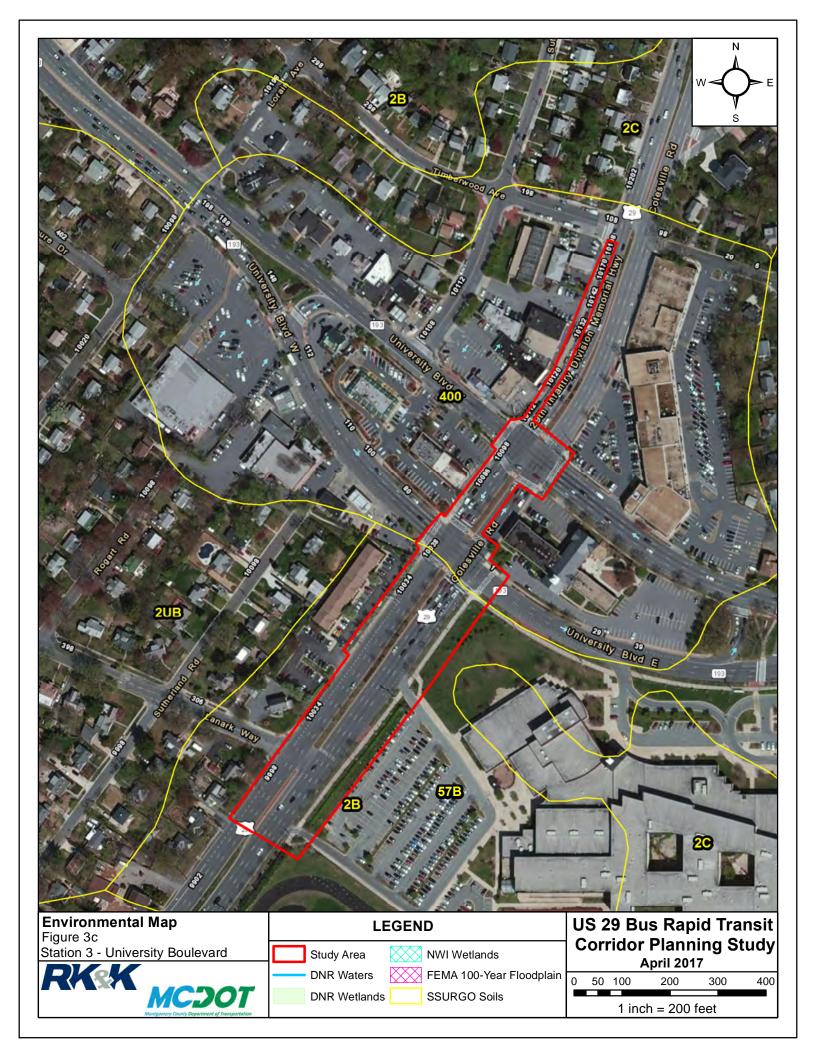
Appendix A: Figures



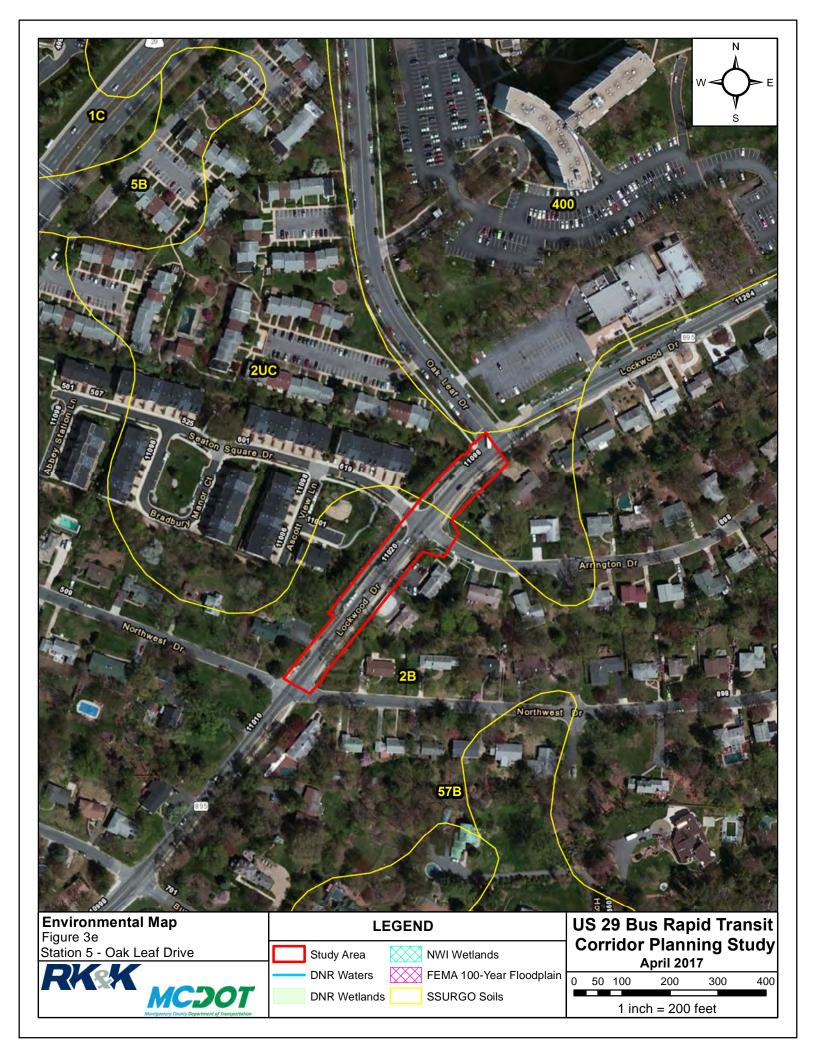


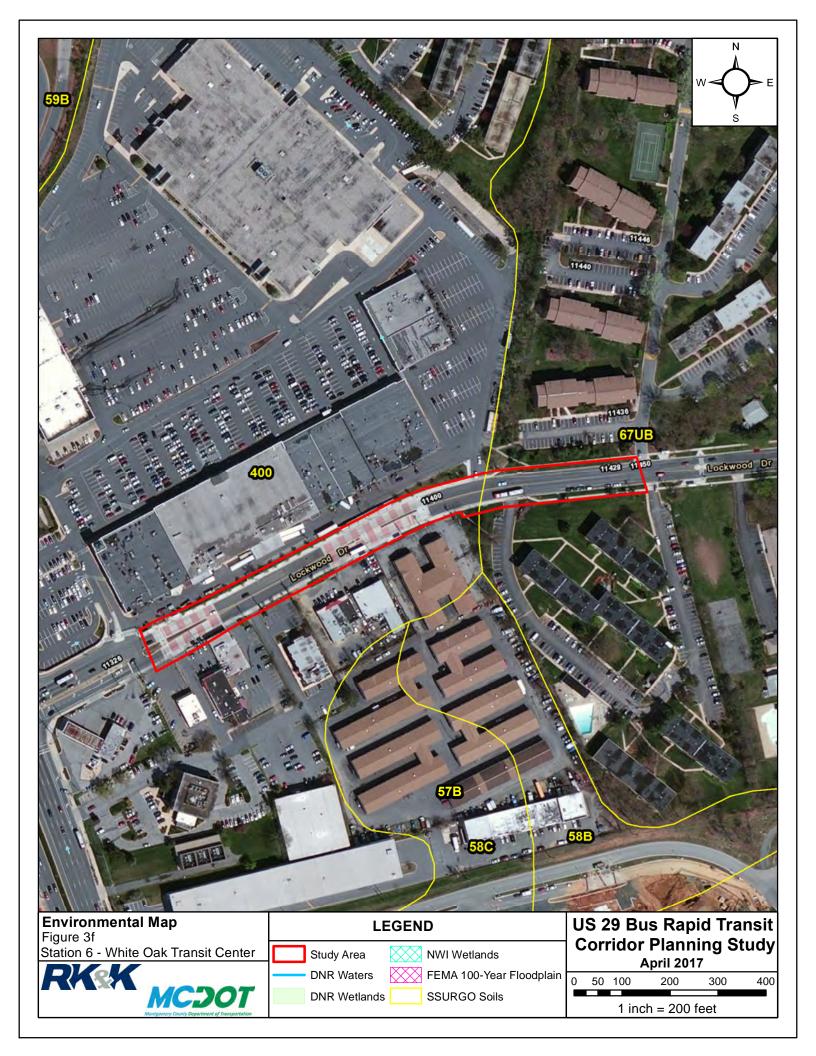


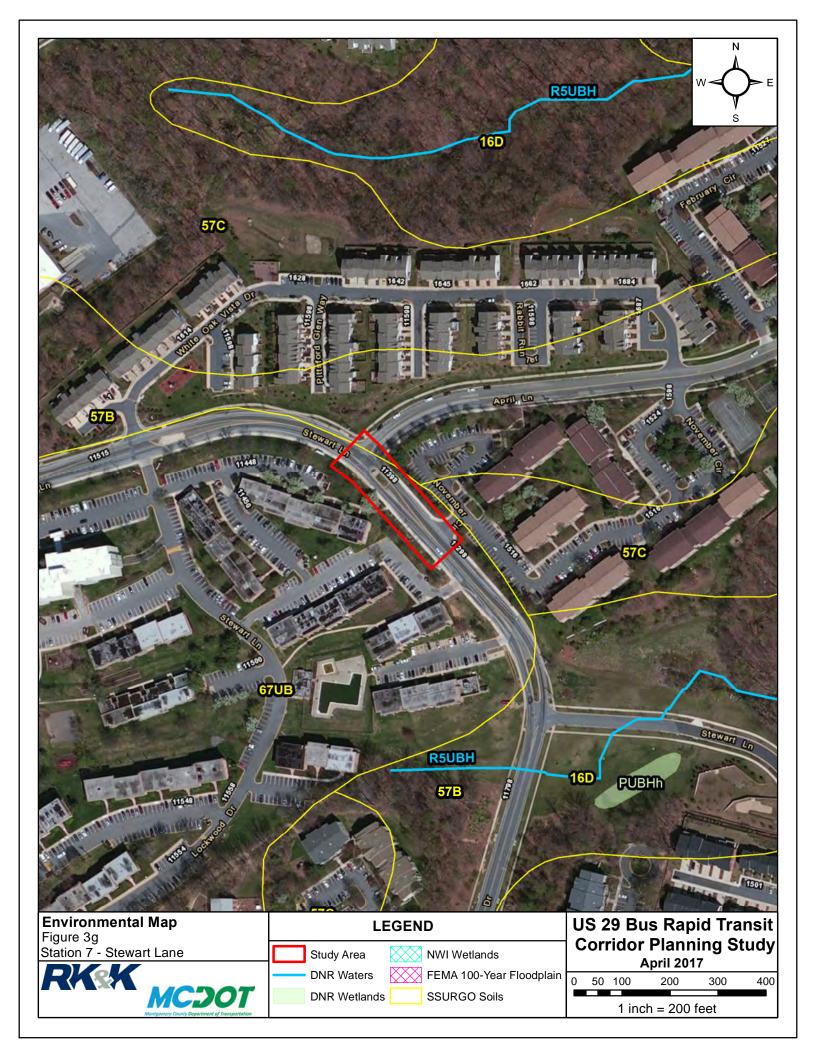


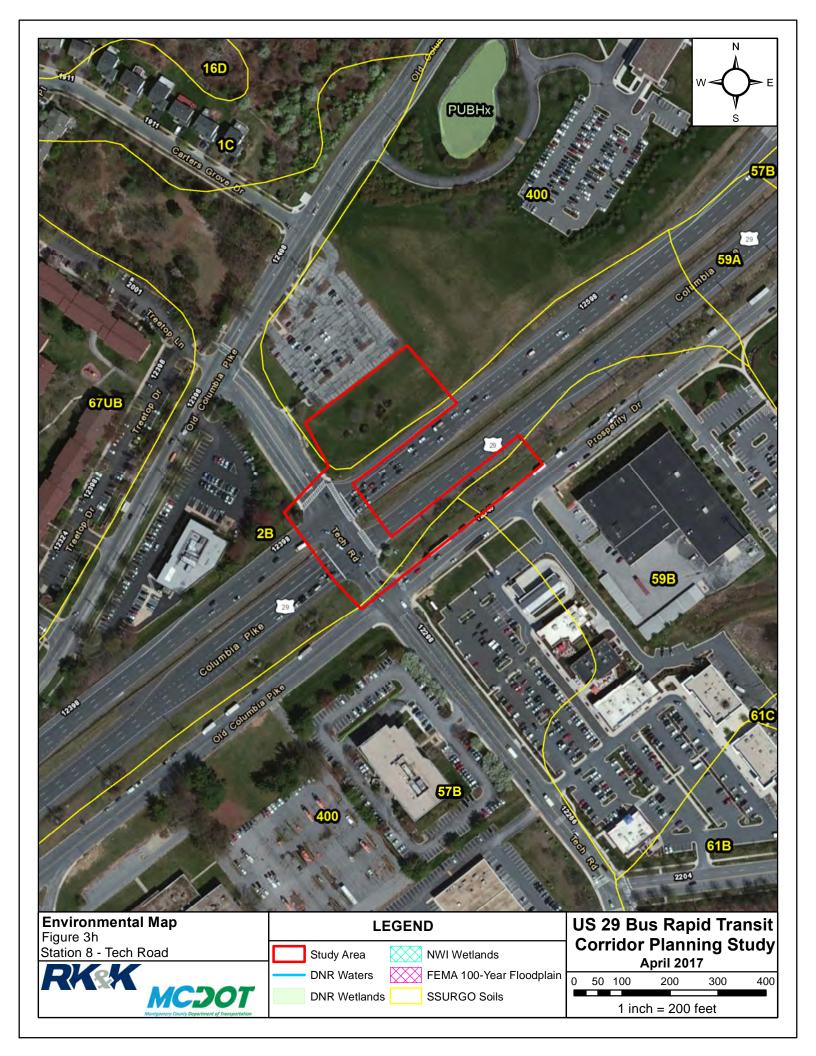




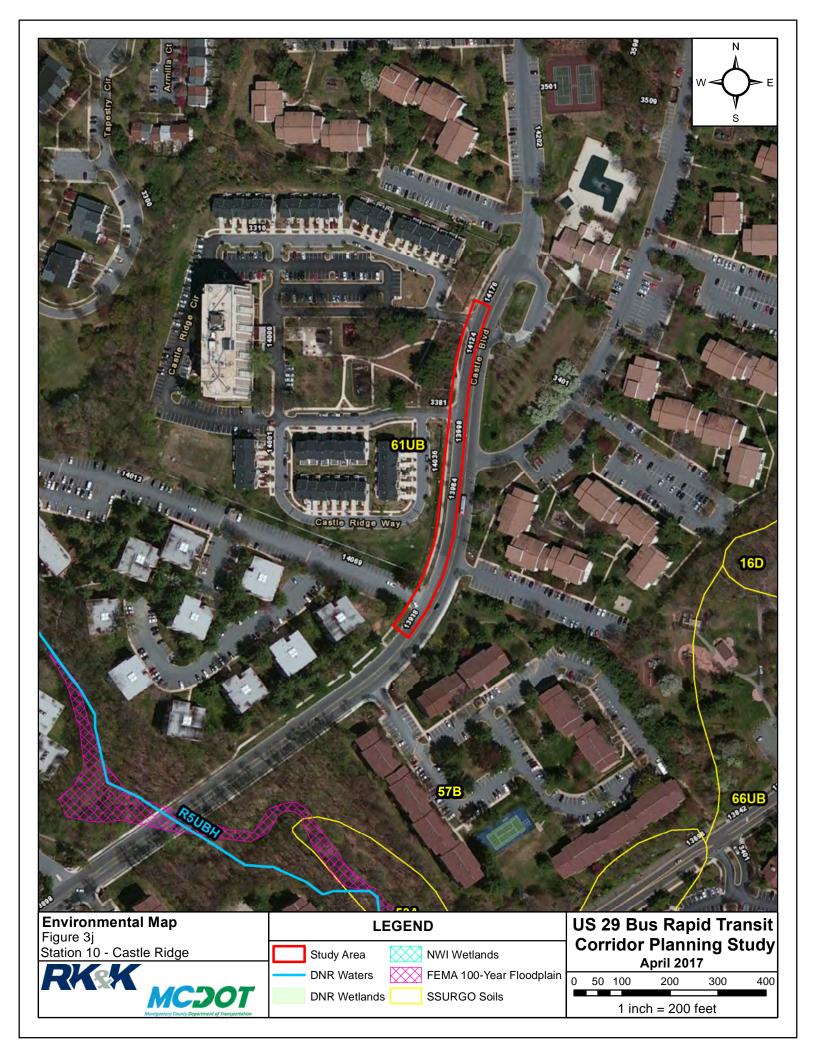


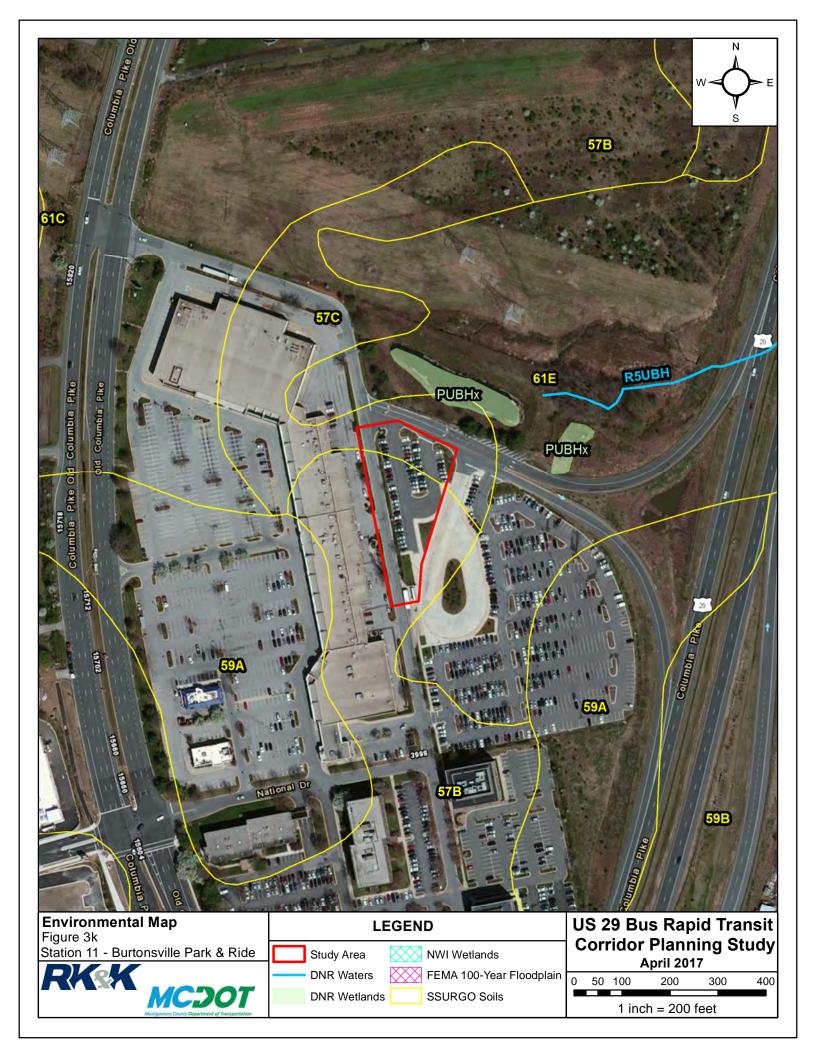












Appendix B: Photographic Record



Station 2 – Fenton Street, facing north



Station 3 – University Boulevard, facing south



Station 4 – Burnt Mills, facing north



Station 5 - Oak Leaf Drive, facing north



Station 6 – White Oak Transit Center, facing west



Station 7 – Stewart Lane, facing north



Station 8 – Tech Road, facing northwest



Station 9 - Briggs Chaney Park & Ride, facing southeast



Station 10 – Castle Ridge, facing south



Station 11 – Burtonsville Park & Ride, facing northeast

Appendix C: Tree Inventory Table

Tree ID	Scientific Name	Common Name	DBH	Condition	Comments
T1	Koelreuteria paniculata	Goldenrain tree	15	Good	Pruned
T2	Koelreuteria paniculata	Goldenrain tree	12	Good	Pruned
T3	Koelreuteria paniculata	Goldenrain tree	12	Fair	Crack in base of trunk
T4	Koelreuteria paniculata	Goldenrain tree	14	Good	Pruned
T5	Koelreuteria paniculata	Goldenrain tree	16	Good/fair	Moderate dead wood
T6	Koelreuteria paniculata	Goldenrain tree	16	Fair	Significant dead wood
T7	Koelreuteria paniculata	Goldenrain tree	16	Good/fair	Pruned, minor dead wood
T8	Koelreuteria paniculata	Goldenrain tree	3	Good	
T9	Koelreuteria paniculata	Goldenrain tree	14	Good	Pruned
T10	Koelreuteria paniculata	Goldenrain tree	10	Good/fair	Pruned , minor dead wood
T11	Koelreuteria paniculata	Goldenrain tree	14	Good/fair	Pruned , moderate dead wood
T12	Koelreuteria paniculata	Goldenrain tree	20	Good/fair	Pruned , minor dead wood
T13	Betula sp.	Birch sp.	18	Good	Pruned
T14	Juniperus virginiana	Eastern redcedar	15	Fair	Minor dead wood and broken branches
T15	Juniperus virginiana	Eastern redcedar	23	Fair	Minor trunk wound, uneven crown, minor broken branches
T16	Acer rubrum	Red maple	8	Good	
T17	Juglans nigra	Black walnut	4	Good/fair	Pruned, minor broken branches, split below 4.5', DBH 3 and 4
T18	Platanus occidentalis	Sycamore	11	Good/fair	Suckering
T19	Platanus occidentalis	Sycamore	9	Good/fair	
T20	Lagerstroemia indica	Crape myrtle	2	Good	
T21	Lagerstroemia indica	Crape myrtle	2	Good	
T22	Lagerstroemia indica	Crape myrtle	2	Good	
T23	Lagerstroemia indica	Crape myrtle	2	Good	
T24	Lagerstroemia indica	Crape myrtle	2	Good	
T25	Lagerstroemia indica	Crape myrtle	2	Good	
T26	Lagerstroemia indica	Crape myrtle	2	Good	
T27	Lagerstroemia indica	Crape myrtle	2	Good	
T28	Lagerstroemia indica	Crape myrtle	2	Good	
T29	Lagerstroemia indica	Crape myrtle	2	Good	
T30	Lagerstroemia indica	Crape myrtle	2	Good	
T31	Lagerstroemia indica	Crape myrtle	2	Good	
T32	Malus sp.	Crabapple sp.	20	Good	Pruned
T33	Platanus × acerifolia	London planetree	8	Good	
T34	Platanus x acerifolia	London planetree	6	Good	
T35	Juniperus virginiana	Eastern redcedar	6	Good	Multistem (4), btwn 5&6"
T36	Juniperus virginiana	Eastern redcedar	9	Good	Multistem (3 main)
T37	Juniperus virginiana	Eastern redcedar	9	Good	Multistem (4 main), btwn 6&9"
T38	Platanus x acerifolia	London planetree	8	Good	
T39	Platanus x acerifolia	London planetree	9	Good	
T40	Lagerstroemia indica	Crape myrtle	3	Good	Multistem (3)
T41	Lagerstroemia indica	Crape myrtle	3	Good	Multistem (3), btwn 2&3"
T42	Platanus × acerifolia	London planetree	6	Good	
T43	Lagerstroemia indica	Crape myrtle	3	Good	Multistem (3)
T44	Lagerstroemia indica	Crape myrtle	3	Good	Multistem (3), btwn 2&3"
T45	Platanus × acerifolia	London planetree	6	Good	

T46	Pyrus calleryana	Bradford pear	3	Poor	Almost dead
T47	Platanus × acerifolia	London planetree	10	Good	Slight lean
T48	Platanus × acerifolia	London planetree	4	Fair	Significant lean
T49	Pyrus calleryana	Bradford pear	3	Good	
T50	Platanus × acerifolia	London planetree	3	Good	Split below 4.5', both 3"
T51	Pyrus calleryana	Bradford pear	3	Good	
T52	Platanus × acerifolia	London planetree	5	Good	
T53	Platanus × acerifolia	London planetree	7	Good	
T54	Malus sp.	Crabapple sp.	7	Good	Split, DBH 6&7"
T55	Acer rubrum	Red maple	8	Good/fair	Root damage
T56	Platanus × acerifolia	London planetree	9	Good	
T57	Platanus × acerifolia	London planetree	8	Good	
T58	Platanus × acerifolia	London planetree	8	Fair	Significant trunk wound and decay
T59	Platanus × acerifolia	London planetree	8	Good	
T60	Platanus × acerifolia	London planetree	9	Good	
T61	Koelreuteria paniculata	Goldenrain tree	14	Good	
T62	Platanus × acerifolia	London planetree	7	Good	
T63	Platanus × acerifolia	London planetree	3	Good	
T64	Platanus x acerifolia	London planetree	8	Good/fair	Trunk wound at base
T65	Platanus x acerifolia	London planetree	3	Good	
T66	Platanus x acerifolia	London planetree	3	Good	
T67	Platanus × acerifolia	London planetree	10	Good/fair	Slight lean
T68	Platanus × acerifolia	London planetree	9	Good	
T69	Platanus × acerifolia	London planetree	10	Good/fair	Slight lean, minor dead wood
T70	Platanus × acerifolia	London planetree	6	Good	
T71	Platanus × acerifolia	London planetree	10	Good	
T72	Platanus × acerifolia	London planetree	8	Good	
T73	Platanus × acerifolia	London planetree	7	Good/fair	Minor trunk wound and decay
T74	Platanus x acerifolia	London planetree	8	Good	
T75	Platanus x acerifolia	London planetree	3	Good	
T76	Platanus x acerifolia	London planetree	3	Good	
T77	Platanus × acerifolia	London planetree	3	Good	
T78	Platanus x acerifolia	London planetree	3	Good	
T79	Platanus x acerifolia	London planetree	3	Fair	Broken leader
T80	Prunus mahaleb	Mahaleb cherry	12	Good/fair	Minor dead wood and broken branches
T81	Prunus mahaleb	Mahaleb cherry	9	Good/fair	Minor dead wood and broken branches
T82	Prunus mahaleb	Mahaleb cherry	13	Good/fair	Minor dead wood and broken branches
T83	Prunus mahaleb	Mahaleb cherry	10	Good/fair	Minor dead wood and broken branches
T84	Prunus mahaleb	Mahaleb cherry	12	Good	
T85	Prunus mahaleb	Mahaleb cherry	14	Poor	Major trunk wound and decay, broken branches
T86	Acer rubrum	Red maple	8	Good/fair	Included bark
T87	Quercus phellos	Willow oak	11	Good/fair	Pruned, minor dead wood and broken branches
T88	Quercus phellos	Willow oak	17	Good	
T89	Quercus phellos	Willow oak	26	Fair	Heavily pruned (leader pruned), moderate dead wood
T90	Quercus phellos	Willow oak	16	Good/fair	Pruned, uneven crown

T91	Quercus phellos	Willow oak	21	Good	Pruned
T92	Quercus phellos	Willow oak	13	Fair	Uneven crown, many broken branches
T93	Quercus phellos	Willow oak	16		Pruned, uneven crown
T94	Quercus phellos	Willow oak	16		Pruned, uneven crown
T95	Liriodendron tulipifera	Tulip poplar	23	Fair/poor	Broken leader, moderate broken branches, vines, lean
T96	Quercus alba	White oak	39	Good	Flag hung on barbed wire
T97	Juglans nigra	Black walnut	9	Fair	Pruned, uneven crown, vines
T98	Quercus alba	White oak	39	Good/fair	Minor broken branches, vines
T99	Quercus rubra	Northern red oak	32	Good/fair	Lean, vines
T100	Koelreuteria paniculata	Goldenrain tree	4		Minor trunk wound and decay
T101	Quercus phellos	Willow oak	21	Fair	Heavily pruned, uneven crown
T102	Quercus phellos	Willow oak	19	Good	Willow oak?
T103	Quercus phellos	Willow oak	28		Pruned, exposed roots
T104	Quercus rubra	Northern red oak	26	Good/fair	Pruned, minor broken branches
T105	Picea abies	Norway spruce	25	Fair	Lean, moderate dead wood and broken branches, pruned
T106	Quercus phellos	Willow oak	11	Good	,
T107	Quercus phellos	Willow oak	5	Good	
T108	Quercus phellos	Willow oak	7	Good	
T109	Quercus phellos	Willow oak	5	Good	
T110	Quercus phellos	Willow oak	6	Good	
T111	Quercus rubra	Northern red oak	5	Good	
T112	Quercus rubra	Northern red oak	12	Good	
T113	Quercus rubra	Northern red oak	14	Good	
T114	Juniperus virginiana	Eastern redcedar	8	Fair	Twin, smaller dbh 6", uneven crown, lean, vines
T115	Juniperus virginiana	Eastern redcedar	8	Fair	Multistem (3) - 6", 8", 4" dbh, vines, uneven crown
T116	Acer rubrum	Red maple	10	Good/fair	Sapsucker holes
T117	Acer saccharinum	Silver maple	55	Fair/poor	Heavily pruned (pruned leader), exposed roots, included bark, dead wood
T118	Acer saccharinum	Silver maple	52	Fair	Vines into crown, heavily pruned, dead branches
T119	Fraxinus pennsylvanica	Green ash	32	Good/fair	Pruned, minor dead wood, exposed roots
T120	Prunus sp.	Cherry sp.	5	Good	
T121	Prunus sp.	Cherry sp.	5	Good	
T122	Prunus sp.	Cherry sp.	6	Good	
T123	Prunus serrulata	Japanese flowering cherry	7	Good	
T124	Prunus serrulata	Japanese flowering cherry	6	Good	
T125	Prunus serrulata	Japanese flowering cherry	6	Fair	
T126	Prunus serrulata	Japanese flowering cherry	6	Good	
T127	Prunus serrulata	Japanese flowering cherry	5	Good	
T128	Prunus serrulata	Japanese flowering cherry	6	Good/fair	
T129	Prunus serrulata	Japanese flowering cherry	6	Fair	Trunk hole
T130	Prunus serrulata	Japanese flowering cherry	5	Fair	Trunk wounds
T131	Prunus serrulata	Japanese flowering cherry	5	Good/fair	
T132	Prunus serrulata	Japanese flowering cherry	5	Good	
T133	Prunus serrulata	Japanese flowering cherry	5	Good/fair	Trunk wounds
T134	Prunus serrulata	Japanese flowering cherry	5	Good	
T135	Prunus serrulata	Japanese flowering cherry	5	Good	

T136	Prunus serrulata	Japanese flowering cherry	6	Good/fair	Exposed roots
T137	Prunus serrulata	Japanese flowering cherry	4	Fair	Hole, missing bark
T138	Prunus serrulata	Japanese flowering cherry	5	Poor	Cavity
T139	Prunus serrulata	Japanese flowering cherry	5	Good/fair	Carny
T140	Prunus serrulata	Japanese flowering cherry	6	Good	
T141	Prunus serrulata	Japanese flowering cherry	6	Good/fair	Missing bark
T142	Prunus serrulata	Japanese flowering cherry	6	Good	I Wildering Surk
T143	Pinus strobus	Eastern white pine	7	Good	
T144	Pinus strobus	Eastern white pine	8	Good	Split trunk, 7 smallest
T145	Quercus coccinea	Scarlet oak	15	Good	
T146	Quercus coccinea	Scarlet oak	19	Poor	Exposed roots, dead branches, trunk wounds, cut canopy
T147	Quercus coccinea	Scarlet oak	21	Poor	Exposed roots, dead branches, cut canopy
T148	Quercus coccinea	Scarlet oak	27	Fair/poor	Broken canopy
T149	Quercus coccinea	Scarlet oak	17	Fair	
T150	Malus sp.	Crabapple sp.	21	Good	Trunk wounds from pruning
T151	Diospyros virginiana	Common persimmon	12	Poor	Multistem btwn 7&8" dbh, heavy vines, dead branches,
T152	Quercus rubra	Northern red oak	17	Poor	Twin, smaller dbh 16", heavy vines, cut canopy
T153	Liriodendron tulipifera	Tulip poplar	21	Poor	Twin, smaller dbh 17", abnormal growth pattern, cut canopy, vines
T154	Quercus rubra	Northern red oak	14	Poor	Twin, smaller dbh 12", heavy vines, trunk wounds, cut canopy
T155	Acer rubrum	Red maple	18	Poor	4 stems - 13", 4", 5", trunk wounds, heavily pruned
T156	Quercus laevis	Turkey oak	10	Poor	Heavy vines completely cover trunk, dead branches
T157	Juniperus virginiana	Eastern redcedar	12	Good	Twin, smaller dbh 10"
T158	Prunus sp.	Cherry sp.	8	Good/fair	Multistem, btwn 2&3", trunk wounds
T159	Quercus rubra	Northern red oak	9	Good	
T160	Juniperus virginiana	Eastern redcedar	12	Good	
T161	Juniperus virginiana	Eastern redcedar	8	Good	Three stems, all 8" dbh
T162	Juniperus virginiana	Eastern redcedar	10	Good	Two stems, 7" dbh
T163	Acer rubrum	Red maple	17	Good/fair	Some dead branches
T164	Acer rubrum	Red maple	18	Fair	Dead branches, exposed roots
T165	Fraxinus pennsylvanica	Green ash	17	Fair	Dead branches
T166	Morus rubra	Red mulberry	5	Fair	10' high
T167	Juniperus virginiana	Eastern redcedar	6	Fair	Three stems, btwn 4&5" dbh
T168	Morus rubra	Red mulberry	5	Fair	
T169	Fraxinus sp.	Ash sp.	10	Good	
T170	Fraxinus sp.	Ash sp.	8	Good	
T171	Quercus phellos	Willow oak	8	Fair	
T172	Quercus phellos	Willow oak	8	Fair	Peeling bark, trunk crack, missing branches
T177	Quercus phellos	Willow oak	8	Fair	
T173	Prunus sp.	Cherry sp.	7	Good/fair	Cracked bark
T174	Prunus sp.	Cherry sp.	7	Good/fair	Some peeling bark
T175	Prunus sp.	Cherry sp.	8	Fair	Loose bark
T176	Prunus sp.	Cherry sp.	8	Fair	Peeling bark
T178	Prunus sp.	Cherry sp.	6	Good/fair	
T179	Prunus sp.	Cherry sp.	6	Fair	
T180	Prunus sp.	Cherry sp.	8	Good/fair	

T181	Prunus sp.	Cherry sp.	6	Fair	
T182	Prunus sp.	Cherry sp.	6	Good	
T183	Prunus sp.	Cherry sp.	6	Good	
T184	Prunus sp.	Cherry sp.	6	Poor	Trunk wounds
T185	Prunus sp.	Cherry sp.	8	Good/fair	Some peeling bark
T186	Prunus sp.		8	Fair	Peeling bark
T187	Prunus sp.	Cherry sp.	8	Good/fair	Minor trunk wounds
T188	Prunus sp.	Cherry sp.	9	Fair	Loose ark
T189	Prunus sp.	Cherry sp.	8	Fair	Loose bark
———	·	Cherry sp.			
T190	Prunus sp.	Cherry sp.	8	Good/fair	Some peeling bark
T191	Lagerstroemia indica	Crape myrtle	4	Poor	Half tree dead, multistem
T192	Quercus phellos	Willow oak	10	Fair	Dead branches
T193	Alnus sp.	Alder sp.	2	Fair	Trunk wounds, multistem
T194	Quercus phellos	Willow oak	9	Fair	Dead branches, peeling bark at crown
T195	Prunus sp.	Cherry sp.	5	Fair	Peeling bark
T196	Quercus phellos	Willow oak	10	Fair	Trunk wounds, peeling bark
T197	Quercus phellos	Willow oak	11	Fair	Peeling bark, wounded branches, two stems, 6"dbh
T198	Quercus phellos	Willow oak	11	Fair	Peeling bark
T199	Prunus sp.	Cherry sp.	6	Fair	Trunk wounds
T200	Prunus sp.	Cherry sp.	6	Fair	Peeling bark, trunk wounds
T201	Quercus phellos	Willow oak	9	Fair	Peeling bark in canopy
T202	Quercus phellos	Willow oak	10	Good/fair	Some dead branches
T203	Acer rubrum	Red maple	5	Fair	Cracks in trunk
T204	Acer rubrum	Red maple	3	Poor	Trunk wound
T205	Acer rubrum	Red maple	6	Poor	Cracks in trunk
T206	Acer rubrum	Red maple	6	Fair	Cracks trunk
T207	Acer rubrum	Red maple	6	Fair	Cracks in trunk, cut branches
T208	Acer rubrum	Red maple	5	Fair	Broken bark
T209	Acer rubrum	Red maple	4	Poor	Trunk wound
T210	Quercus coccinea	Scarlet oak	25	Good/fair	Pruned branches, missing branches
T211	Acer rubrum	Red maple	4	Fair	Trunk cracks
T212	Acer rubrum	Red maple	5	Fair	Trunk wounds
T213	Prunus serrulata	Japanese flowering cherry	8	Poor	Trunk cavity
T214	Prunus serrulata	Japanese flowering cherry	7	Fair	Peeling bark
T215	Prunus sp.	Cherry sp.	6	Good	
T216	Quercus acutissima	Sawtooth oak	9	Poor	Hole in trunk
T217	Quercus acutissima	Sawtooth oak	11	Fair/poor	Peeling bark trunk wounds dead branches
T218	Quercus acutissima	Sawtooth oak	11	Fair/poor	Dead branches peeling bark
T219	Prunus sp.	Cherry sp.	5	Good	
T220	Quercus acutissima	Sawtooth oak	13	Fair	Peeling bark dead branches
T221	Quercus acutissima	Sawtooth oak	10	Fair	Peeling bark
T222	Prunus sp.	Cherry sp.	4	Good	Few cracks in trunk
	i .				

Appendix D: Agency Correspondence



Larry Hogan, Governor Boyd Rutherford, Lt. Governor Mark Belton, Secretary Joanne Throwe, Deputy Secretary

April 26, 2017

Ms. Sarah Falcone Rummerl, Klepper & Kahl, LLP 81 Mosher Street Baltimore, Maryland 21217

RE: Environmental Review for US 29 Bus Rapid Transit Corridor Planning Study, MCDOT CIP #0501318, from Burtonsville Park-and-Ride to Silver Spring Transit Center, Montgomery County,

Maryland.

Dear Ms. Falcone:

The Wildlife and Heritage Service has determined that there are records of the Acuminate Crayfish (*Cambarus acuminatus*), a species with In Need of Conservation status in Maryland, documented within the study area for this project, at US 29 crossing over Northwest Branch and at Paint Branch. We would encourage the applicant to adhere stringently to all appropriate best management practices for sediment and erosion control during any work near these stream crossings, in order to reduce the likelihood of adverse impacts to the Acuminate Crayfish and other important aquatic species in these streams.

Please be sure to let us know if the limits of proposed disturbance or overall site boundaries change and we will provide you with an updated evaluation. Thank you for allowing us the opportunity to review this project. If you should have any further questions regarding this information, please contact me at (410) 260-8573.

Sincerely, Loui a. Bym

Lori A. Byrne,

Environmental Review Coordinator

Wildlife and Heritage Service

MD Dept. of Natural Resources

ER# 2017.0595.mo Cc: D. Brinker, DNR



Larry Hogan, Governor Boyd Rutherford, Lt. Governor Mark Belton, Secretary Joanne Throwe, Deputy Secretary

17-MIS-167

May 4th, 2017

Sarah Falcone RK&K 3501 Concord Road, Suite 100 York, PA 17402

Subject: Fisheries Information for US 29 Bus Rapid Transit Corridor Planning Study, MCDOT CIP# 0501318, Montgomery County Maryland

Dear Ms. Falcone:

The above referenced project has been reviewed to determine fisheries species near the proposed project. The proposed activities include construction of 10 stations along a corridor and the modification of existing platform at the southernmost station.

The project looks like it crosses an unnamed tributary to Paint Branch which is classified as a Use I stream, and the Northwest Branch of the Anacostia River which is classified as a Use IV stream. In general, no in-stream work may occur in Use I streams between March 1st through June 15th and in Use IV streams between March 1st through May 31st of any given year, to protect spawning fish.

DNR has documented many resident fish species from both Paint Branch and the Anacostia and its tributaries by our Maryland Biological Stream Survey. MBSS data can be accessed via the MDDNR web page at http://streamhealth.maryland.gov, allowing access to resource surveys.

If you have any further questions, please feel free to contact me at 410 260-8736.

Sincerely;

Christopher Aadland Environmental Review Program

Christopher addland



United States Department of the Interior

U.S. Fish & Wildlife Service Chesapeake Bay Field Office 177 Admiral Cochrane Drive Annapolis, MD 21401 410/573 4575



Online Certification Letter

Today's date: March 22, 2017

Project: Consultation Code: 05E2CB00-2017-SLI-0974

Event Code: 05E2CB00-2017-E-01801

Project Name: US 29 BRT Improvements Project

Dear Applicant for online certification:

Thank you for using the U.S. Fish and Wildlife Service (Service) Chesapeake Bay Field Office online project review process. By printing this letter in conjunction with your project review package, you are certifying that you have completed the online project review process for the referenced project in accordance with all instructions provided, using the best available information to reach your conclusions. This letter, and the enclosed project review package, completes the review of your project in accordance with the Endangered Species Act of 1973 (16 U.S.C. 1531-1544, 87 Stat. 884), as amended (ESA). This letter also provides information for your project review under the National Environmental Policy Act of 1969 (P.L. 91-190, 42 U.S.C. 4321-4347, 83 Stat. 852), as amended. A copy of this letter and the project review package must be submitted to this office for this certification to be valid. This letter and the project review package will be maintained in our records.

Based on this information and in accordance with section 7 of the Endangered Species Act (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.), we certify that except for occasional transient individuals, no federally proposed or listed endangered or threatened species are known to exist within the project area. Therefore, no Biological Assessment or further section 7 consultation with the U.S. Fish and Wildlife Service is required. Should project plans change, or if additional information on the distribution of listed or proposed species becomes available, this determination may be reconsidered.

This response relates only to federally protected threatened or endangered species under our jurisdiction. For additional information on threatened or endangered species in Maryland, you should contact the Maryland Wildlife and Heritage Division at (410) 260-8573. For information in Delaware you should contact the Delaware Division of Fish and Wildlife, Wildlife Species Conservation and Research Program at (302) 735-8658. For information in the District of Columbia, you should contact the National Park Service at (202) 339-8309.

The U.S. Fish and Wildlife Service also works with other Federal agencies and states to minimize loss of wetlands, reduce impacts to fish and migratory birds, including bald eagles, and restore habitat for wildlife. Information on these conservation issues and how development projects can avoid affecting these resources can be found on our website (www.fws.gov/chesapeakebay)

We appreciate the opportunity to provide information relative to fish and wildlife issues, and thank you for your interest in these resources. If you have any questions or need further assistance, please contact Chesapeake Bay Field Office Threatened and Endangered Species program at (410) 573-4527.

Sincerely,

Genevieve LaRouche Field Supervisor

1 of 1 3/22/2017 4:20 PM



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Chesapeake Bay Ecological Services Field Office 177 Admiral Cochrane Drive Annapolis, MD 21401-7307

Phone: (410) 573-4599 Fax: (410) 266-9127 http://www.fws.gov/chesapeakebay/

http://www.fws.gov/chesapeakebay/endsppweb/ProjectReview/Index.html



In Reply Refer To: March 22, 2017

Consultation Code: 05E2CB00-2017-SLI-0974

Event Code: 05E2CB00-2017-E-01801

Project Name: US 29 BRT Improvements Project

Subject: List of threatened and endangered species that may occur in your proposed project

location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. This species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having

similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.), and projects affecting these species may require development of an eagle conservation plan

(http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and

http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Wetlands

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Chesapeake Bay Ecological Services Field Office 177 Admiral Cochrane Drive Annapolis, MD 21401-7307 (410) 573-4599

Project Summary

Consultation Code: 05E2CB00-2017-SLI-0974

Event Code: 05E2CB00-2017-E-01801

Project Name: US 29 BRT Improvements Project

Project Type: TRANSPORTATION

Project Description: Implementation of a bus rapid transit (BRT) system along US 29. Eleven

station locations will be added along 14 miles of roadway.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/39.07787592604663N76.94226229095962W



Counties: Montgomery, MD

Endangered Species Act Species

There is a total of 0 threatened, endangered, or candidate species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area. Please contact the designated FWS office if you have questions.

Critical habitats

There are no critical habitats within your project area.

USFWS National Wildlife Refuges And Fish Hatcheries

Any activity proposed on <u>National Wildlife Refuge</u> lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuges or fish hatcheries within your project area.

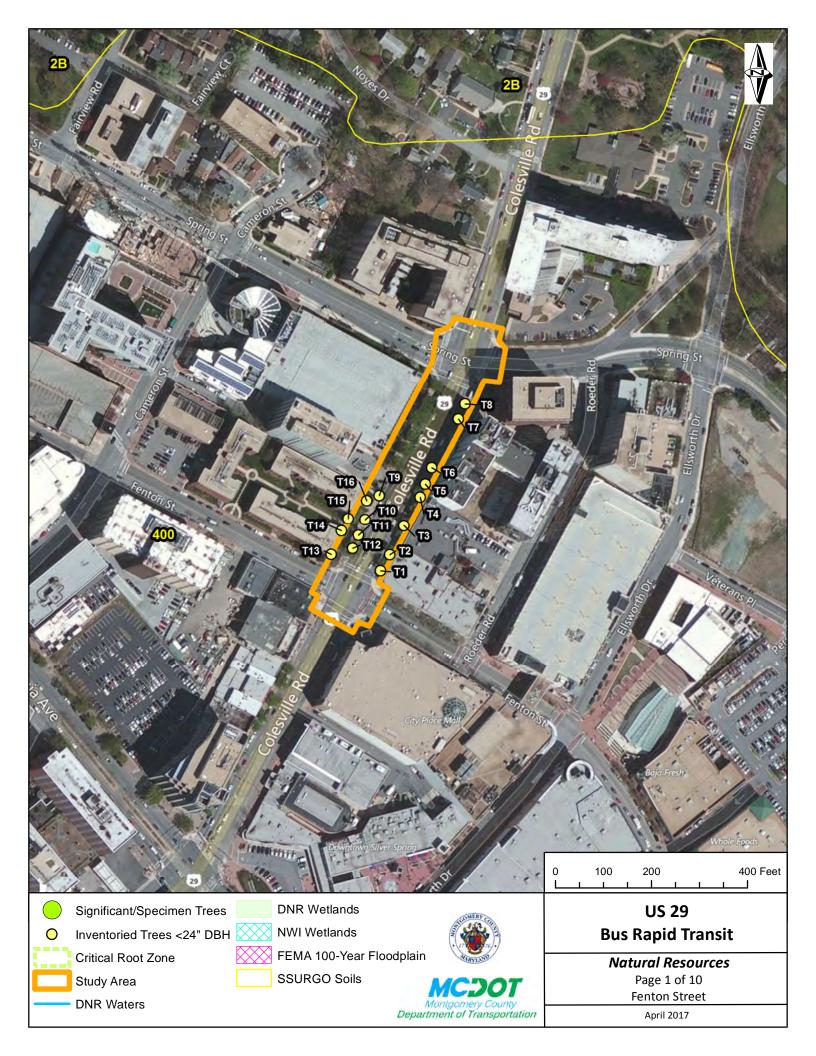
Wetlands

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

There are no wetlands within your project area.

Appendix E: Natural Resources Figures





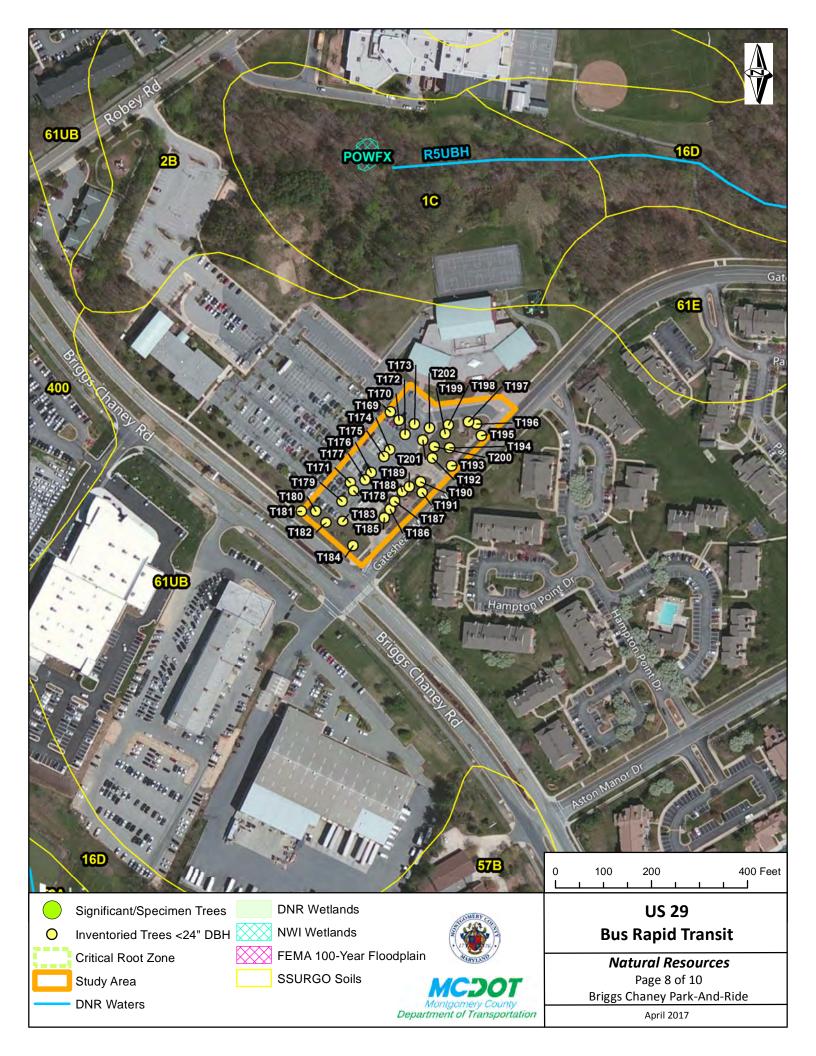


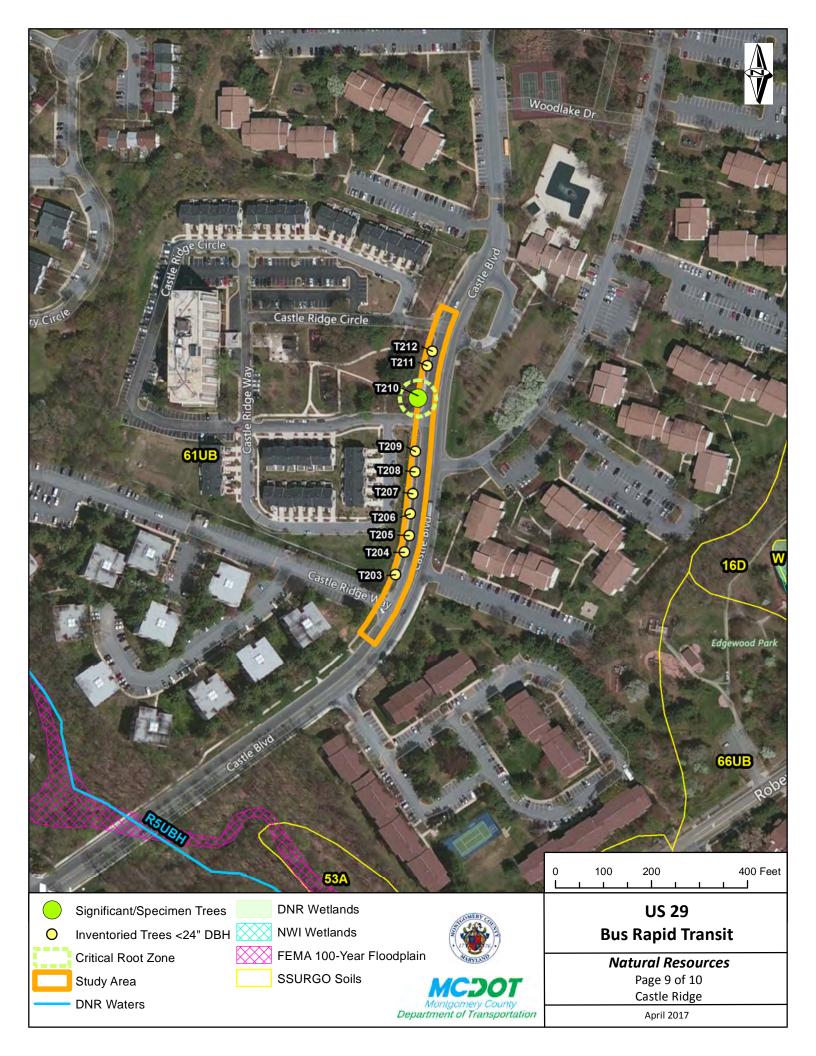


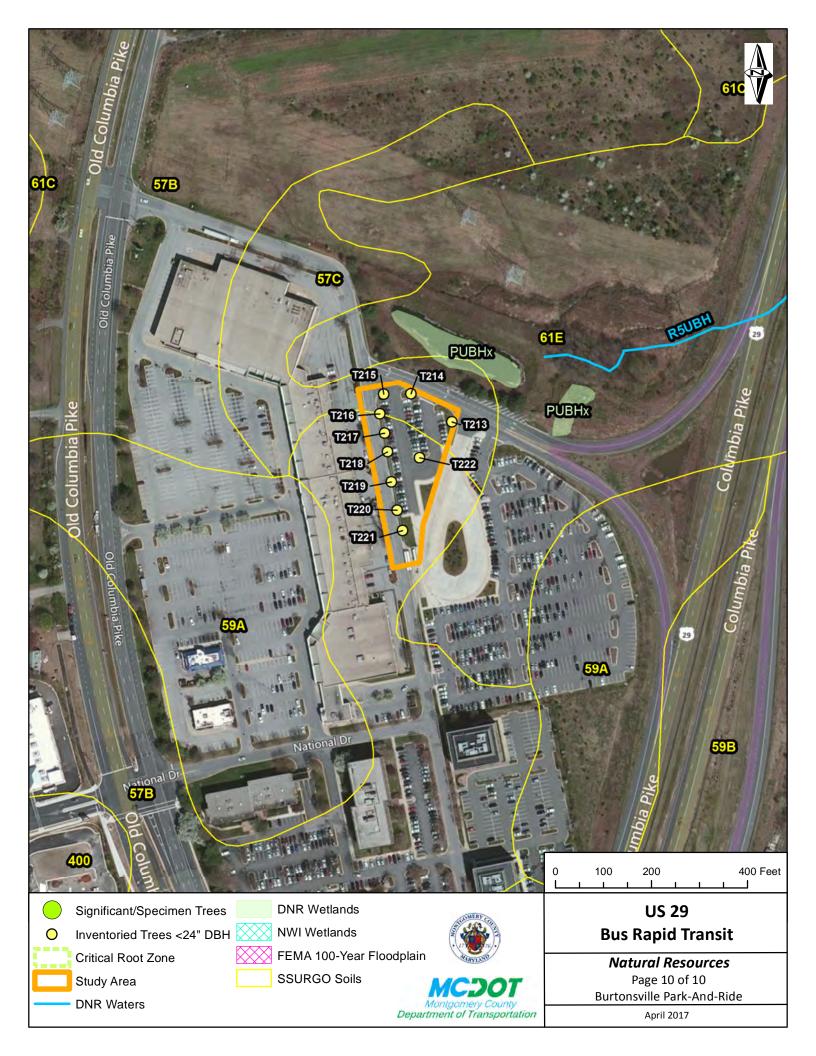












Tree ID	Scientific Name	Common Name	DBH	Condition	Comments
T1	Koelreuteria paniculata	Goldenrain tree	15	Good	Pruned
T2	Koelreuteria paniculata	Goldenrain tree	12	Good	Pruned
T3	Koelreuteria paniculata	Goldenrain tree	12	Fair	Crack in base of trunk
T4	Koelreuteria paniculata	Goldenrain tree	14	Good	Pruned
T5	Koelreuteria paniculata	Goldenrain tree	16		Moderate dead wood
T6	Koelreuteria paniculata	Goldenrain tree	16	Fair	Significant dead wood
T7	Koelreuteria paniculata	Goldenrain tree	16		Pruned, minor dead wood
T8	Koelreuteria paniculata	Goldenrain tree	3	Good	Tranea, minor acaa wood
T9	Koelreuteria paniculata	Goldenrain tree	14	Good	Pruned
T10	Koelreuteria paniculata	Goldenrain tree	10		Pruned , minor dead wood
T11	Koelreuteria paniculata	Goldenrain tree	14		Pruned , moderate dead wood
T12	Koelreuteria paniculata	Goldenrain tree	20		Pruned , minor dead wood
T13	Betula sp.	Birch sp.	18	Good	Pruned
T14	Juniperus virginiana	Eastern redcedar	15	Fair	Minor dead wood and broken branches
T15	Juniperus virginiana	Eastern redcedar	23	Fair	Minor trunk wound, uneven crown, minor broken branches
T16	Acer rubrum	Red maple	8	Good	Innier trank treatia, and ten eretti, innier eretter eratieree
T17	Juglans nigra	Black walnut	4		Pruned, minor broken branches, split below 4.5', DBH 3 and 4
T18	Platanus occidentalis	Sycamore	11		Suckering
T19	Platanus occidentalis	Sycamore	9	Good/fair	
T20	Lagerstroemia indica	Crape myrtle	2	Good	
T21	Lagerstroemia indica	Crape myrtle	2	Good	
T22	Lagerstroemia indica	Crape myrtle	2	Good	
T23	Lagerstroemia indica	Crape myrtle	2	Good	
T24	Lagerstroemia indica	Crape myrtle	2	Good	
T25	Lagerstroemia indica	Crape myrtle	2	Good	
T26	Lagerstroemia indica	Crape myrtle	2	Good	
T27	Lagerstroemia indica	Crape myrtle	2	Good	
T28	Lagerstroemia indica	Crape myrtle	2	Good	
T29	Lagerstroemia indica	Crape myrtle	2	Good	
T30	Lagerstroemia indica	Crape myrtle	2	Good	
T31	Lagerstroemia indica	Crape myrtle	2	Good	
T32	<i>Malus</i> sp.	Crabapple sp.	20	Good	Pruned
T33	Platanus x acerifolia	London planetree	8	Good	
T34	Platanus x acerifolia	London planetree	6	Good	
T35	Juniperus virginiana	Eastern redcedar	6	Good	Multistem (4), btwn 5&6"
T36	Juniperus virginiana	Eastern redcedar	9	Good	Multistem (3 main)
T37	Juniperus virginiana	Eastern redcedar	9	Good	Multistem (4 main), btwn 6&9"
T38	Platanus × acerifolia	London planetree	8	Good	
T39	Platanus × acerifolia	London planetree	9	Good	
T40	Lagerstroemia indica	Crape myrtle	3	Good	Multistem (3)
T41	Lagerstroemia indica	Crape myrtle	3	Good	Multistem (3), btwn 2&3"
T42	Platanus × acerifolia	London planetree	6	Good	
T43	Lagerstroemia indica	Crape myrtle	3	Good	Multistem (3)
T44	Lagerstroemia indica	Crape myrtle	3	Good	Multistem (3), btwn 2&3"
T45	Platanus × acerifolia	London planetree	6	Good	

T46 Pyrus calleryana Bradford pear 3 Poor Almost dead T47 Piatanus x acerifolia London planetree 10 Good Sight lean T48 Patanus x acerifolia London planetree 3 Good Split below 4.5', both 3' T50 Piatanus x acerifolia London planetree 3 Good Split below 4.5', both 3' T51 Pyrus calleryana Bradford pear 3 Good Split below 4.5', both 3' T51 Pyrus calleryana Bradford pear 3 Good Split below 4.5', both 3' T51 Pyrus calleryana Bradford pear 3 Good Split below 4.5', both 3' T52 Piatanus x acerifolia London planetree 5 Good T53 Piatanus x acerifolia London planetree 7 Good Split, DBH 687'' T64 Malus sp. Crabapple sp. 7 Good Good T65 Piatanus x acerifolia London planetree 9 Good T65 Piatanus x acerifolia London planetree 8 Good T67 Piatanus x acerifolia London planetree 8 Good T67 Piatanus x acerifolia London planetree 8 Good T68 Piatanus x acerifolia London planetree 8 Good T60 Piatanus x acerifolia London planetree 9 Good T60 Piatanus x acerifolia London planetree 9 Good T60 Piatanus x acerifolia London planetree 14 Good T60 Piatanus x acerifolia London planetree 14 Good T70 Piatanus x acerifolia London planetree 14 Good T70 Piatanus x acerifolia London planetree 10 Good T70 Piatanus x acerifolia London planetree 3 Good T70 Piatanus x acerifolia London planetree 3 Good T70 Piatanus x acerifolia London planetree 10 Goodfair Trunk wound at base Piatanus x acerifolia London planetree 10 Goodfair Trunk wound and decay T71 Piatanus x acerifolia London planetree 10 Goodfair Trunk wound and decay T71 Piatanus x acerifolia London planetree 10 Goodfair Trunk wound and decay T71 Piatanus x acerifolia London planetree 10 Goodfair T71 Piatanus x acerifolia London planetree 10 Goodfair T71 Piatanus x acerifolia London p
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T50 Pitatanus x acerifolia London planetree 3 Good Split below 4.5", both 3"
T51 Pyrus calleryana Bradford pear 3 Good
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T79 Platanus x acerifolia London planetree 3 Fair Broken leader
T81 Prunus mahaleb Mahaleb cherry 9 Good/fair Minor dead wood and broken branches
T82 Prunus mahaleb Mahaleb cherry 13 Good/fair Minor dead wood and broken branches
T83 Prunus mahaleb Mahaleb cherry 10 Good/fair Minor dead wood and broken branches
T84 Prunus mahaleb Mahaleb cherry 12 Good
T85 Prunus mahaleb Mahaleb cherry 14 Poor Major trunk wound and decay, broken branches
T86 Acer rubrum Red maple 8 Good/fair Included bark
T87 Quercus phellos Willow oak 11 Good/fair Pruned, minor dead wood and broken branches
T88 Quercus phellos Willow oak 17 Good
T89 Quercus phellos Willow oak 26 Fair Heavily pruned (leader pruned), moderate dead wood
T90 Quercus phellos Willow oak 16 Good/fair Pruned, uneven crown

T04	Our array on the alles	IM/:IIaa.ala	04	Caad	Durana
T91	Quercus phellos	Willow oak	21	Good	Pruned
T92	Quercus phellos	Willow oak	13	Fair	Uneven crown, many broken branches
T93	Quercus phellos	Willow oak	16		Pruned, uneven crown
T94	Quercus phellos	Willow oak	16		Pruned, uneven crown
T95	Liriodendron tulipifera	Tulip poplar	23	•	Broken leader, moderate broken branches, vines, lean
T96	Quercus alba	White oak	39	Good	Flag hung on barbed wire
T97	Juglans nigra	Black walnut	9	Fair	Pruned, uneven crown, vines
T98	Quercus alba	White oak	39		Minor broken branches, vines
T99	Quercus rubra	Northern red oak	32		Lean, vines
T100	Koelreuteria paniculata	Goldenrain tree	4		Minor trunk wound and decay
T101	Quercus phellos	Willow oak	21	Fair	Heavily pruned, uneven crown
T102	Quercus phellos	Willow oak	19	Good	Willow oak?
T103	Quercus phellos	Willow oak	28	Good/fair	Pruned, exposed roots
T104	Quercus rubra	Northern red oak	26	Good/fair	Pruned, minor broken branches
T105	Picea abies	Norway spruce	25	Fair	Lean, moderate dead wood and broken branches, pruned
T106	Quercus phellos	Willow oak	11	Good	
T107	Quercus phellos	Willow oak	5	Good	
T108	Quercus phellos	Willow oak	7	Good	
T109	Quercus phellos	Willow oak	5	Good	
T110	Quercus phellos	Willow oak	6	Good	
T111	Quercus rubra	Northern red oak	5	Good	
T112	Quercus rubra	Northern red oak	12	Good	
T113	Quercus rubra	Northern red oak	14	Good	
T114	Juniperus virginiana	Eastern redcedar	8	Fair	Twin, smaller dbh 6", uneven crown, lean, vines
T115	Juniperus virginiana	Eastern redcedar	8	Fair	Multistem (3) - 6", 8", 4" dbh, vines, uneven crown
T116	Acer rubrum	Red maple	10	Good/fair	Sapsucker holes
T117	Acer saccharinum	Silver maple	55	Fair/poor	Heavily pruned (pruned leader), exposed roots, included bark, dead wood
T118	Acer saccharinum	Silver maple	52	Fair	Vines into crown, heavily pruned, dead branches
T119	Fraxinus pennsylvanica	Green ash	32	Good/fair	Pruned, minor dead wood, exposed roots
T120	Prunus sp.	Cherry sp.	5	Good	
T121	Prunus sp.	Cherry sp.	5	Good	
T122	Prunus sp.	Cherry sp.	6	Good	
T123	Prunus serrulata	Japanese flowering cherry	7	Good	
T124	Prunus serrulata	Japanese flowering cherry	6	Good	
T125	Prunus serrulata	Japanese flowering cherry	6	Fair	
T126	Prunus serrulata	Japanese flowering cherry	6	Good	
T127	Prunus serrulata	Japanese flowering cherry	5	Good	
T128	Prunus serrulata	Japanese flowering cherry	6	Good/fair	
T129	Prunus serrulata	Japanese flowering cherry	6	Fair	Trunk hole
T130	Prunus serrulata	Japanese flowering cherry	5	Fair	Trunk wounds
T131	Prunus serrulata	Japanese flowering cherry	5	Good/fair	
T132	Prunus serrulata	Japanese flowering cherry	5	Good	
T133	Prunus serrulata	Japanese flowering cherry	5	Good/fair	Trunk wounds
T134	Prunus serrulata	Japanese flowering cherry	5	Good	
T135	Prunus serrulata	Japanese flowering cherry	5	Good	

T400	Dw. in. in. in. in. in. in.	language flavoring about		Cood/60:n	Type and years
T136	Prunus serrulata	Japanese flowering cherry	6		Exposed roots
T137	Prunus serrulata	Japanese flowering cherry	4	Fair	Hole, missing bark
T138	Prunus serrulata	Japanese flowering cherry	5	Poor	Cavity
T139	Prunus serrulata	Japanese flowering cherry	5	Good/fair	
T140	Prunus serrulata	Japanese flowering cherry	6	Good	
T141	Prunus serrulata	Japanese flowering cherry	6		Missing bark
T142	Prunus serrulata	Japanese flowering cherry	6	Good	
T143	Pinus strobus	Eastern white pine	7	Good	
T144	Pinus strobus	Eastern white pine	8	Good	Split trunk, 7 smallest
T145	Quercus coccinea	Scarlet oak	15	Good	
T146	Quercus coccinea	Scarlet oak	19	Poor	Exposed roots, dead branches, trunk wounds, cut canopy
T147	Quercus coccinea	Scarlet oak	21	Poor	Exposed roots, dead branches, cut canopy
T148	Quercus coccinea	Scarlet oak	27	Fair/poor	Broken canopy
T149	Quercus coccinea	Scarlet oak	17	Fair	
T150	Malus sp.	Crabapple sp.	21	Good	Trunk wounds from pruning
T151	Diospyros virginiana	Common persimmon	12	Poor	Multistem btwn 7&8" dbh, heavy vines, dead branches,
T152	Quercus rubra	Northern red oak	17	Poor	Twin, smaller dbh 16", heavy vines, cut canopy
T153	Liriodendron tulipifera	Tulip poplar	21	Poor	Twin, smaller dbh 17", abnormal growth pattern, cut canopy, vines
T154	Quercus rubra	Northern red oak	14	Poor	Twin, smaller dbh 12", heavy vines, trunk wounds, cut canopy
T155	Acer rubrum	Red maple	18	Poor	4 stems - 13", 4", 5", trunk wounds, heavily pruned
T156	Quercus laevis	Turkey oak	10	Poor	Heavy vines completely cover trunk, dead branches
T157	Juniperus virginiana	Eastern redcedar	12	Good	Twin, smaller dbh 10"
T158	Prunus sp.	Cherry sp.	8	Good/fair	Multistem, btwn 2&3", trunk wounds
T159	Quercus rubra	Northern red oak	9	Good	
T160	Juniperus virginiana	Eastern redcedar	12	Good	
T161	Juniperus virginiana	Eastern redcedar	8	Good	Three stems, all 8" dbh
T162	Juniperus virginiana	Eastern redcedar	10	Good	Two stems, 7" dbh
T163	Acer rubrum	Red maple	17	Good/fair	Some dead branches
T164	Acer rubrum	Red maple	18	Fair	Dead branches, exposed roots
T165	Fraxinus pennsylvanica	Green ash	17	Fair	Dead branches
T166	Morus rubra	Red mulberry	5	Fair	10' high
T167	Juniperus virginiana	Eastern redcedar	6	Fair	Three stems, btwn 4&5" dbh
T168	Morus rubra	Red mulberry	5	Fair	
T169	Fraxinus sp.	Ash sp.	10	Good	
T170	Fraxinus sp.	Ash sp.	8	Good	
T171	Quercus phellos	Willow oak	8	Fair	
T172	Quercus phellos	Willow oak	8	Fair	Peeling bark, trunk crack, missing branches
T177	Quercus phellos	Willow oak	8	Fair	
T173	Prunus sp.	Cherry sp.	7	Good/fair	Cracked bark
T174	Prunus sp.	Cherry sp.	7	Good/fair	Some peeling bark
T175	Prunus sp.	Cherry sp.	8	Fair	Loose bark
T176	Prunus sp.	Cherry sp.	8	Fair	Peeling bark
T178	Prunus sp.	Cherry sp.	6	Good/fair	
T179	Prunus sp.	Cherry sp.	6	Fair	
T180	Prunus sp.	Cherry sp.	8	Good/fair	

T101	Drunus en	Charmyon	6	Foir	
	Prunus sp.	Cherry sp.	6	Fair	
T182	Prunus sp.	Cherry sp.	6	Good	
T183	Prunus sp.	Cherry sp.	6	Good	Turnella vive vie de
T184	Prunus sp.	Cherry sp.	6	Poor	Trunk wounds
T185	Prunus sp.	Cherry sp.	8		Some peeling bark
T186	Prunus sp.	Cherry sp.	8	Fair	Peeling bark
T187	Prunus sp.	Cherry sp.	8		Minor trunk wounds
T188	Prunus sp.	Cherry sp.	9	Fair	Loose ark
T189	Prunus sp.	Cherry sp.	8	Fair	Loose bark
T190	Prunus sp.	Cherry sp.	8		Some peeling bark
T191	Lagerstroemia indica	Crape myrtle	4	Poor	Half tree dead, multistem
T192	Quercus phellos	Willow oak	10	Fair	Dead branches
T193	Alnus sp.	Alder sp.	2	Fair	Trunk wounds, multistem
T194	Quercus phellos	Willow oak	9	Fair	Dead branches, peeling bark at crown
T195	Prunus sp.	Cherry sp.	5	Fair	Peeling bark
T196	Quercus phellos	Willow oak	10	Fair	Trunk wounds, peeling bark
T197	Quercus phellos	Willow oak	11	Fair	Peeling bark, wounded branches, two stems, 6"dbh
T198	Quercus phellos	Willow oak	11	Fair	Peeling bark
T199	Prunus sp.	Cherry sp.	6	Fair	Trunk wounds
T200	Prunus sp.	Cherry sp.	6	Fair	Peeling bark, trunk wounds
T201	Quercus phellos	Willow oak	9	Fair	Peeling bark in canopy
T202	Quercus phellos	Willow oak	10	Good/fair	Some dead branches
T203	Acer rubrum	Red maple	5	Fair	Cracks in trunk
T204	Acer rubrum	Red maple	3	Poor	Trunk wound
T205	Acer rubrum	Red maple	6	Poor	Cracks in trunk
T206	Acer rubrum	Red maple	6	Fair	Cracks trunk
T207	Acer rubrum	Red maple	6	Fair	Cracks in trunk, cut branches
T208	Acer rubrum	Red maple	5	Fair	Broken bark
T209	Acer rubrum	Red maple	4	Poor	Trunk wound
T210	Quercus coccinea	Scarlet oak	25		Pruned branches, missing branches
T211	Acer rubrum	Red maple	4	Fair	Trunk cracks
T212	Acer rubrum	Red maple	5	Fair	Trunk wounds
T213	Prunus serrulata	Japanese flowering cherry	8	Poor	Trunk cavity
T214	Prunus serrulata	Japanese flowering cherry	7	Fair	Peeling bark
T215	Prunus sp.	Cherry sp.	6	Good	
T216	Quercus acutissima	Sawtooth oak	9	Poor	Hole in trunk
T217	Quercus acutissima	Sawtooth oak	11		Peeling bark trunk wounds dead branches
T218	Quercus acutissima	Sawtooth oak	11	•	Dead branches peeling bark
T219	Prunus sp.	Cherry sp.	5	Good	
T220	Quercus acutissima	Sawtooth oak	13	Fair	Peeling bark dead branches
T221	Quercus acutissima	Sawtooth oak	10	Fair	Peeling bark
T222	Prunus sp.	Cherry sp.	4	Good	Few cracks in trunk
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