

Upper Neuse River Basin Association

Final Memorandum

To: Lick Creek Watershed Restoration Plan Partners and Stakeholders
Cc: Kimberly Nimmer, NC Division of Water Quality
From: Chris Dreps, Upper Neuse River Basin Association
Date: January 24, 2008
Re: Lick Creek Watershed Critical Lands Protection Analysis

The fourth and final goal of the Lick Creek Watershed Restoration Plan is to mitigate future changes to watershed hydrology and water quality within the 22 square-mile watershed. A key management strategy in preventing impacts to this largely undeveloped watershed is the protection of those lands that are most critical to water quality and aquatic habitat.

This technical memorandum presents the results of a desktop analysis to identify and analyze all land parcels within the Lick Creek Watershed for their potential water quality and selected conservation values. The analysis starts with parcels defined as having high conservation value based on the Upper Neuse Clean Water Initiative (UNCWI) Conservation Plan (Trust for Public Land 2006), and further analyzes those parcels for other selected conservation criteria defined by staff from local land trusts and government land protection agencies.

The memorandum is divided into three sections and appendices. The first section is a background section that states the need for a critical lands protection management approach in the Lick Creek Watershed. The second section briefly describes the analysis used to identify critical lands. The third section summarizes the results. Finally, the appendices include a map and spreadsheet of parcels-specific results.

Background

Conservation of land around surface waters is perhaps the most cost-effective and long-lasting strategy for protecting water quality available. Vegetated riparian buffers along headwater streams, tributaries, and lakeshores provide natural and effective protection against nonpoint source pollutants and help mitigate future impacts from additional development.

Currently, approximately 69% of the land in the Lick Creek watershed is characterized by agriculture, forest, unmanaged rural land, or other undeveloped land, and 13% of the watershed is characterized as protected natural area (TJCOG 2007). This means that a total of 82% of the land in Lick Creek is either undeveloped or managed as forest or field. In fact, Lick Creek is the least developed of all the Falls Lake Watersheds on the south side of the lake. However, the Lick Creek watershed is slated for significant change. If fully developed under current zoning rules, the watershed will have no remaining farms or undeveloped lands, and only 26% of the total watershed area will be protected as natural area (TJCOG 2007). That is a conversion of 7,740 acres, or 55% of the total watershed area, from rural to urban uses.

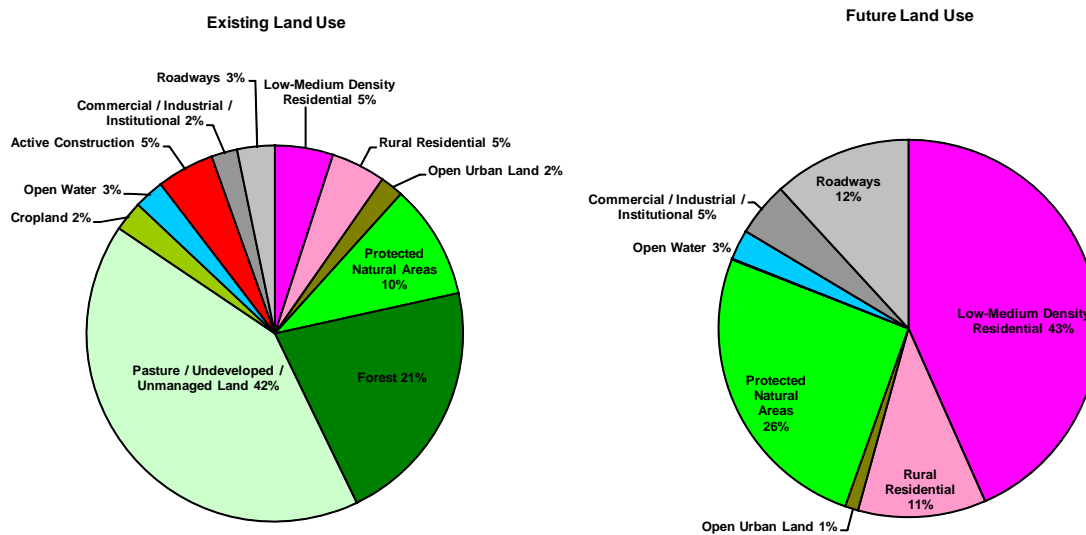


Figure 1. Lick Creek Watershed Current and Future Land Uses

The conversion of farmlands, forests, and unmanaged lands to suburban development will likely have negative consequences on water quality in Lick Creek. The anticipated changes will greatly increase the amount of impervious cover in Lick Creek from its current level of 5.9% to an ultimate level of 22.6% (Fraley-McNeal et al. 2007). When the amount of impervious cover in the watershed almost quadruples, what will be the effects on water quality and aquatic habitat? The Center for Watershed Protection’s Watershed Treatment Model predicts that when fully built-out, the Lick Creek watershed will export almost 30% more nitrogen and 10% more sediment (total suspended solids [TSS]) than it currently does (Fraley-McNeal et al. 2007).

Although the Watershed Treatment Model is an un-calibrated, planning-level model, its data inputs are detailed and robust, and there are sound reasons that its predictions for the Lick Creek watershed should be taken seriously. First, NC Division of Water Quality

recognizes the Lick Creek watershed as having “Impaired” biology (NC DWQ 2008), and current water quality monitoring by NC State University and Durham Stormwater Services suggests that specific water pollutants such as fecal coliform bacteria and sediments may not meet required standards in certain areas of the watershed. In addition, Lick Creek flows directly into Falls Lake, which is now recognized by the NC Division of Water Quality as “Impaired” by nutrients and turbidity (NC DWQ 2008). For these reasons, any increase in pollutants in Lick Creek Watershed should be of great concern to citizens and politicians alike.

Finally, there are some additional key concerns with these predictions. The first is that once the watershed is developed as a suburban watershed, the opportunities to mitigate water quality impacts are much fewer and significantly more expensive than they are in a rural watershed. Who will bear these costs? Secondly, these predictions account for Durham’s current and relatively strong structural stormwater practice requirements for suburban development. If these will not be adequate to prevent pollutant increases, what management strategies will be necessary? Could improving stormwater practices from those currently in place fully protect water quality and aquatic habitat in Lick Creek and Falls Lake? Finally, these predictions assume a total loss of all farmlands from the watershed. Is this what the citizens of Durham and Wake County want?

Despite the predictions, the Lick Creek Project Partners believe that it is possible to have increased development and still meet the management goals of the Lick Creek Watershed Restoration Plan (see goals at www.unrba.org/lick/about.htm). One key strategy for preventing degradation of Lick Creek’s water quality and aquatic habitat is the preservation of land areas that are most critical to the water quality and aquatic habitat of Lick Creek.

The Upper Neuse River Basin Association and Triangle J Council of Governments, with the guidance of the Triangle Land Conservancy (TLC), the Triangle Greenways Council (TGC), and the Durham County Real Estate and Open Space Protection Division (Durham County), used an existing land analysis (UNCWI) to identify lands critical for meeting the Lick Creek Watershed Management Goals. Special acknowledgement goes to the following people who provided guidance for and review of the analysis.

- Richard Broadwell (TLC)
- Bev Norwood (TGC)
- Greg Schuster (Durham County)

The resulting analysis provides landowners, local governments, and land trusts with the information needed to guide land protection efforts that will help ensure the protection of water quality and aquatic habitat in the Lick Creek Watershed.

Analysis Steps

The Critical Lands Protection Analysis is based on the UNCWI Conservation Plan. The UNCWI Conservation Plan was created by a partnership of local governments and land trusts in the Upper Neuse Basin to prioritize and protect those lands most critical for the long-term safety and health of water quality (particularly that of drinking water supplies) for the communities in the Upper Neuse River Basin. The UNCWI effort has been successful, and local and state agencies are actively funding the protection of lands identified by the UNCWI Conservation Plan. For this reason, the Lick Creek Partners and Stakeholders (see www.unrba.org/partners.htm) decided to limit the Lick Creek Critical Lands Protection Analysis to land parcels that scored highly in the UNCWI Analysis.

UNCWI Basics Explained

The UNCWI Conservation Plan is based on a Geographic Information Systems (GIS) raster model that assesses the water quality value of 400 square-foot areas (20 x 20-foot cells) for the entire 770 square-mile Upper Neuse Basin. Each 20 x 20 foot cell is scored based on whether it meets criteria [riparian areas (RA), wetlands (WR), hydraulic conductance (VC), in drinking water supply/well critical area (DW), erosive soils (SE), "natural" land use (LU), or in headwaters (HS)], and each criterion is weighted in a unique process. Some processes, such as that used for wetlands, are very simple, providing a weighted score for the cell if it is classified as wetland and a zero if it is not. Some processes, such as that used for soil erosion, are more complex and use equations to determine the score (highly erosive soils = 5, least erosive = 0). Here is a general summary of weightings.

- Riparian areas (RA)—cells within 100 feet of a stream or other water body or in a floodplain get a score of 5, those outside score a zero.
- Wetlands (WR) —cells in a wetland score a 5; cells not in a wetland score a zero.
- Hydraulic conductance (VC) —cells that recharge water more efficiently receive higher scores (range 1-5).
- Drinking water supply/well critical area (DW) —cells in the critical area of a public water supply or the recharge area of a groundwater well score 5, those outside will score zero.

- Erosive soils (SE) —using a simplified version of the Universal Soil Loss Equation, soil erosion potential is determined. There is a range of scores, with highly erosive soils scoring 5, and least erosive soils scoring zero.
- Land use (LU) —there is a range of possible scores, with forested areas scoring 5 and ultra urban areas scoring 0.
- Headwaters (HS) —cells in surface water catchments draining "headwater streams" score 5, while cells not in those score a 0 (headwater catchments determined are areas of 6-acres that are assumed to drain to ephemeral streams [with the assumption that headwater streams are critical to water quality and aquatic habitat]).

The UNCWI model output is a total water quality value for each 20 x 20-foot cell with values ranging from 0 to 5. The Lick Creek analysis considers only the land parcels in the Lick Creek Watershed that intersect high-scoring areas (cells with a score of 3 or greater in the UNCWI analysis). Five hundred and thirty-nine (539) parcels in the Lick Creek Watershed intersect high value lands identified in the UNCWI Conservation Plan (see Figure 2 and Appendix 1).

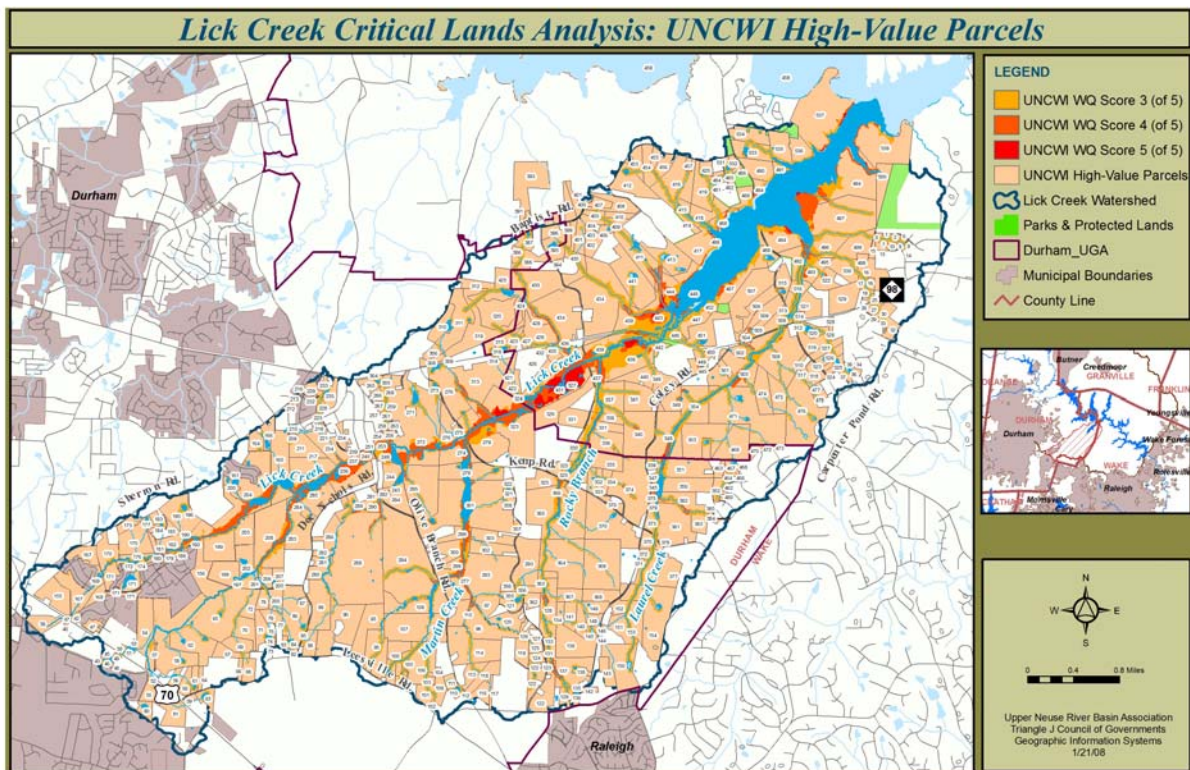


Figure 2. Parcels Assessed in the Lick Creek Critical Lands Analysis

A limitation is that, based on the need to assess the entire 770 square mile Upper Neuse, the analysis uses a few generalized data sources, and some of these data sets miss local details. For example, the analysis uses a statewide coverage of drinking water supply critical areas rather than a critical area defined by the best science specific to Falls Lake. In this case, subwatersheds might have been more appropriate areas for assessment than the ½-mile critical area, which has little hydrologic basis in this case. However, this is not a serious limitation to the analysis because most data sets used in the analysis are the best available data and are appropriate for the 20 square-mile scale of the Lick Creek Watershed.

Flagging of UNCWI High-Value Parcels

The 539 land parcels identified through this analysis were further assessed using the following criteria and “flags”:

- Parcels intersecting planned bicycle trails—All planned bicycle trails in Lick Creek’s watershed are within DOT right-of-ways and do not intersect any parcels.
- Parcels intersecting Significant Natural Heritage Areas—UNCWI high-value parcels (score of 3-5) intersecting Significant Natural Heritage Areas.
- Parcels intersecting East Durham Open Space Plan Wildlife Areas—UNCWI high-value parcels (score of 3-5) intersecting recommended wildlife protection areas from the East Durham Open Space Plan (EDOSP Wildlife Areas layer).
- Parcels intersecting East Durham Open Space Plan Wildlife Corridors—UNCWI high-value parcels (score of 3-5) intersecting recommended wildlife corridors from the East Durham Open Space Plan (EDOSP Wildlife Corridors layer).
- Parcels adjacent to public lands—UNCWI high-value parcels (score of 3-5) that are adjacent to publicly owned lands (used a buffer of 20 feet to adjust for possible parcel or protected land boundary imprecision).
- Parcels with farmlands—UNCWI high-value parcels (score of 3-5) that receive agriculture, horticulture, or forestry tax valuation and land use designation.
- Parcels intersecting Lick Creek priority restoration sites—UNCWI high-value parcels (score of 3-5) that have high-priority restoration sites identified by the Lick Creek Watershed Restoration Plan fieldwork.

Critical Lands Protection Analysis Results

The result of the Lick Creek Critical Lands Protection Analysis is a set of 539 parcels that intersect high-value (score of 3, 4, or 5) lands identified by the UNCWI Conservation Plan. In addition, the analysis identifies which of these parcels intersect planned trails, Significant Natural Heritage Areas, East Durham Open Space Plan priorities, priority restoration sites, farmlands, or are adjacent to public lands.

Appendix 1 is a map of these parcels. Appendix 2 is a spreadsheet that summarizes the values for each of the 539 individual parcels.

An initial review of the analysis results highlights the following **general findings**.

Area

- A total of 2,041 acres, or 14.5%, of the Lick Creek Watershed is rated as having a high value (score of 3, 4, or 5) for conservation by the UNCWI Conservation Plan.
- The 2,041 acres of high-value conservation lands are located on 539 land parcels that cover over 90% of the watershed. The average parcel is 25.9 acres and includes about 3.5 acres of UNCWI high-value land.
- About 1,735 acres, or 73%, of the total UNCWI high-value lands, are located on only 100 land parcels that total 9,710 acres.
- About ½ of the UNCWI high-value lands are located on 40 parcels that total 4,457 acres.

Flags

- Of the total 2,041 acres of UNCWI high-value lands, 1,374 acres (or 67%) are on land parcels that are developable under current zoning regulations. The total area of these land parcels is 11,406 acres.
- 59 of the 539 parcels with UNCWI high-value lands are adjacent to public lands, and 47 of these are over ten acres.
- 54 of the parcels with UNCWI high-value lands are designated as agriculture, forestry, or horticulture for tax and land use purposes.
- 156 of the parcels, totaling 6,315 acres, are prioritized in the East Durham Open Space Plan. Protection of these parcels would result in the preservation of 1,016 acres of UNCWI high-value lands.
- 122 of the parcels with UNCWI high-value lands are recognized by the State of North Carolina as Significant Natural Heritage Areas.
- Of the 539 parcels with UNCWI high-value lands, 24 have major restoration opportunities and 10 have volunteer restoration opportunities as identified by Lick Creek Fieldwork in February of 2007.

Conclusions and Next Steps

The UNRBA recommends that the Lick Creek Partners and Stakeholders use the results of this analysis to guide the development of a Critical Lands Protection management strategy that would form part of the Lick Creek Watershed Restoration Plan. This strategy may include various approaches, which include, but are not limited to:

- Volunteer land preservation;

- Volunteer conservation easements;
- Partnerships among land trusts (such as TLC and TGC), local governments (such as Durham and Wake Counties), and other agencies (such as Soil and Water Conservation Districts) for the protection of critical lands;
- Assessment of existing floodplain and buffer regulations for their potential to protect UNCWI high-value lands, and consideration of how amendments to those ordinances would protect UNCWI high-value lands; and
- Assessment of the number of UNCWI high-value parcels that are grand-fathered out of current floodplain and buffer regulations.

The next step in the process is for land trust and local government partners to review this memo and accompanying information and conduct field visits with the UNRBA to verify the findings of this GIS analysis and begin implementing the recommendations.

Bibliography

Fraley-McNeal, Lisa, Sally Hoyt, and Anne Kitchell (2007). Lick Creek—Watershed Treatment Model Analysis. Technical memorandum from the Center for Watershed Protection to the Upper Neuse River Basin Association. June 20.

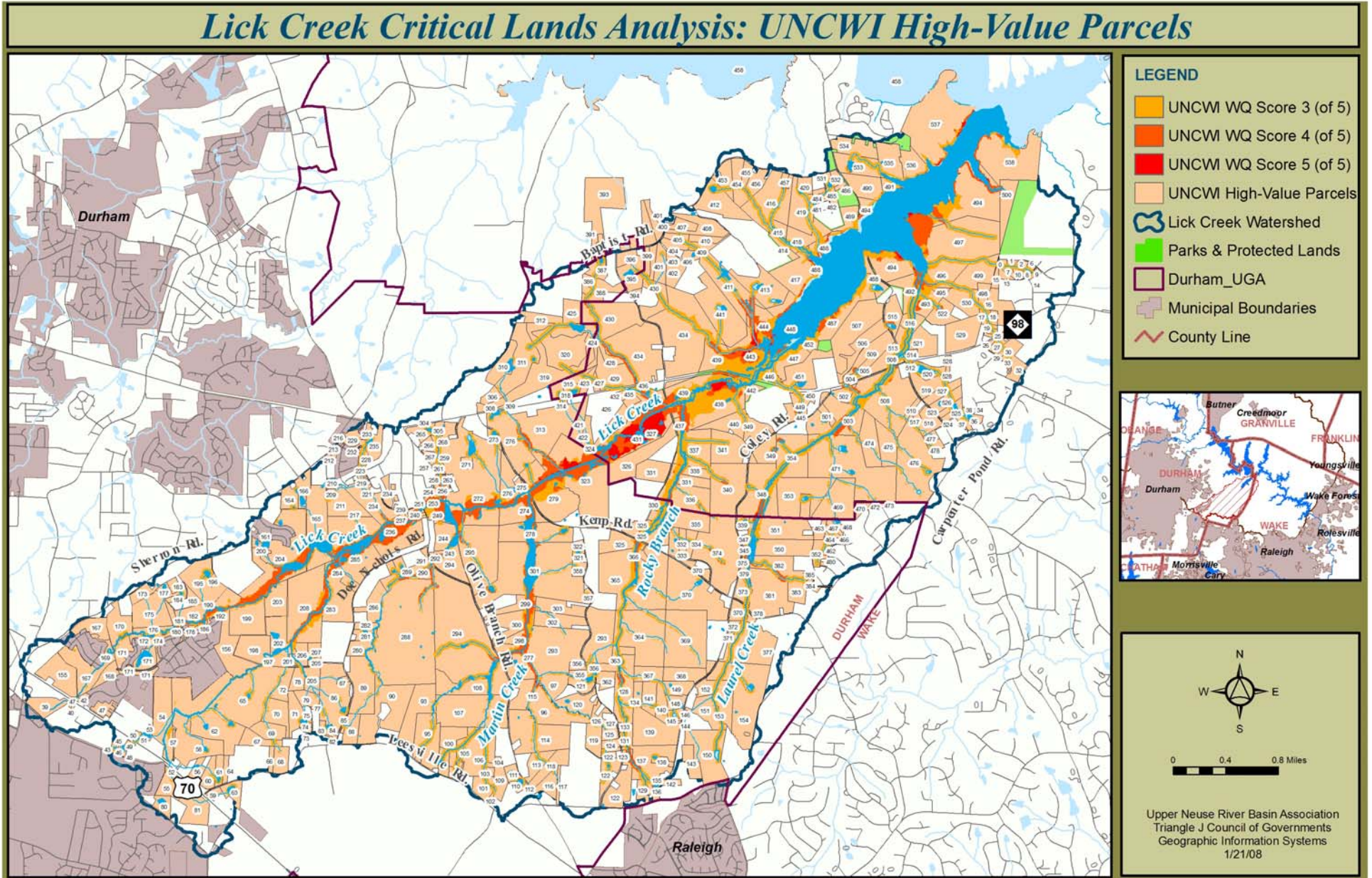
NC DWQ (2008). North Carolina 303(d) List, Draft for Public Review. Semi-annual listing of the impaired waters of the state of North Carolina. January 10. (NC 303(d) lists are available at http://h2o.enr.state.nc.us/tmdl/General_303d.htm#Downloads)

TJCOG (2007). Memorandum describing the process and results of the current and future land use analyses performed for the Lick Creek Watershed Restoration Plan. Technical memorandum from John Hodges-Copple (Triangle J Council of Governments) to the Upper Neuse River Basin Association.

UNRBA (2007). *Initial watershed characterization, existing water quality data, and stakeholder process*. Memorandum presented to NC Division of Water Quality. March 19.

Trust for Public Land (2006). *Upper Neuse Clean Water Initiative Conservation Plan*.

Appendix 1: Map of critical lands results



Appendix 2: Lick Creek Watershed Restoration Plan: Critical Lands Protection Analysis*

Map ID Number	Parcel Size (Acres)	Total Area of Score 3 (acres)	Total Area of Score 4 (acres)	Total Area of Score 5 (acres)	Area w/ High UNCWI Score (acres)	Percent of Parcel w/ High UNCWI Score	Detailed Current Land Use	Detailed Future Land Use	Building	Volunteer Restoration Opportunities	Major Restoration Opportunities	Adjacent to Public Land	Significant Natural Heritage Areas	East Durham Open Space Plan	Agriculture or Forestry Use Valuation	Developable Parcels
0	1.99	0.00	0.00	0.00	0.00	0%	Special Use - Well Site	Special Use - Well Site	N							
1	2.05	0.00	0.00	0.00	0.00	0%	Semi-Rural Residential	Low-Medium Density Residential	Y							y
2	1.30	0.17	0.00	0.00	0.17	13%	Very Low Density Residential	Very Low Density Residential	Y							
3	1.04	0.44	0.00	0.00	0.44	43%	Very Low Density Residential	Very Low Density Residential	Y							
4	1.25	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	Y							
5	1.00	0.17	0.00	0.00	0.17	17%	Very Low Density Residential	Very Low Density Residential	Y							
6	1.22	0.09	0.00	0.00	0.09	8%	Very Low Density Residential	Very Low Density Residential	Y							
7	3.43	0.17	0.00	0.00	0.17	5%	Rural Residential	Low-Medium Density Residential	Y							y
8	1.22	0.25	0.03	0.00	0.28	23%	Very Low Density Residential	Very Low Density Residential	Y							
9	1.58	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	Y							
10	2.31	1.19	0.00	0.00	1.19	52%	Semi-Rural Residential	Low-Medium Density Residential	Y							y
11	0.94	0.68	0.00	0.00	0.68	73%	Very Low Density Residential	Very Low Density Residential	Y							
12	1.02	0.85	0.00	0.00	0.85	84%	Very Low Density Residential	Very Low Density Residential	Y							y
13	3.85	0.00	0.00	0.00	0.00	0%	Rural Residential	Low-Medium Density Residential	Y							y
14	0.94	0.33	0.00	0.00	0.33	35%	Very Low Density Residential	Very Low Density Residential	Y							y
15	4.86	1.43	0.00	0.00	1.43	29%	Forestry	Low-Medium Density Residential	N				y			y
16	33.41	3.82	0.00	0.00	3.82	11%	Unmanaged Rural Lands	Low-Medium Density Residential	N				y	y		y
17	2.38	0.00	0.00	0.00	0.00	0%	Semi-Rural Residential	Low-Medium Density Residential	Y							y
18	2.83	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Low-Medium Density Residential	N							y
19	1.65	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Very Low Density Residential	N							y
20	0.92	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Very Low Density Residential	N							y
21	1.18	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Very Low Density Residential	N							y
22	1.28	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	Y							
23	1.34	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Very Low Density Residential	N							y
24	1.06	0.05	0.00	0.00	0.05	4%	Very Low Density Residential	Very Low Density Residential	Y							
25	1.81	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	Y							
26	1.99	0.17	0.00	0.00	0.17	9%	Very Low Density Residential	Very Low Density Residential	Y							
27	2.12	0.36	0.00	0.00	0.36	17%	Semi-Rural Residential	Low-Medium Density Residential	Y							y
28	1.31	0.55	0.00	0.00	0.55	42%	Undeveloped Land	Very Low Density Residential	N							y
29	1.82	0.13	0.00	0.00	0.13	7%	Very Low Density Residential	Very Low Density Residential	Y							
30	1.67	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	Y							
31	1.65	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	Y							
32	20.35	7.24	0.00	0.00	7.24	36%	Unmanaged Rural Lands	Low-Medium Density Residential	Y							y
33	2.04	0.10	0.00	0.00	0.10	5%	Semi-Rural Residential	Low-Medium Density Residential	Y							y
34	1.59	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	Y							
35	1.92	0.06	0.05	0.00	0.11	6%	Undeveloped Land	Very Low Density Residential	N							y
36	5.49	1.85	0.31	0.00	2.17	39%	Rural Residential	Low-Medium Density Residential	Y							y
37	2.85	1.67	0.08	0.00	1.75	62%	Semi-Rural Residential	Low-Medium Density Residential	Y							y
38	2.78	1.56	0.08	0.00	1.64	59%	Semi-Rural Residential	Low-Medium Density Residential	Y							y
39	20.64	4.00	0.00	0.00	4.00	19%	Unmanaged Rural Lands	Commercial - Retail	N							y
40	0.46	0.44	0.00	0.00	0.44	96%	Undeveloped Land	Commercial - Office	N							y
41	0.46	0.11	0.00	0.00	0.11	24%	Undeveloped Land	Commercial - Office	N							y
42	2.96	0.34	0.00	0.00	0.34	11%	Undeveloped Land	Commercial - Retail	N							y
43	1.81	0.18	0.01	0.00	0.19	11%	Very Low Density Residential	Very Low Density Residential	N							
44	0.78	0.22	0.00	0.00	0.22	28%	Very Low Density Residential	Very Low Density Residential	N							
45	0.86	0.26	0.00	0.00	0.26	30%	Very Low Density Residential	Very Low Density Residential	N							
46	1.82	0.46	0.00	0.00	0.46	25%	Very Low Density Residential	Very Low Density Residential	N							
47	21.78	0.46	0.00	0.00	0.46	2%	Unmanaged Rural Lands	Commercial - Office	N							y
48	0.98	0.39	0.00	0.00	0.39	40%	Very Low Density Residential	Very Low Density Residential	N							
49	2.23	0.79	0.00	0.00	0.79	35%	Commercial - Retail	Commercial - Retail	N							
50	2.12	0.50	0.00	0.00	0.50	23%	Commercial - Retail	Commercial - Retail	N							
51	3.19	1.38	0.00	0.00	1.38	43%	Rural Residential	Commercial - Retail	N							y
52	3.40	2.26	0.00	0.00	2.26	66%	Undeveloped Land	Commercial - Retail	N							y
53	1.80	0.51	0.00	0.00	0.51	28%	Urban Green Space	Very Low Density Residential	N							y
54	53.06	14.19	0.00	0.00	14.19	27%	Unmanaged Rural Lands	Low-Medium Density Residential	N	y						y
55	19.34	3.11	0.00	0.00	3.11	16%	Unmanaged Rural Lands	Low-Medium Density Residential	N	y	y					y
56	9.02	1.95	0.01	0.00	1.96	22%	Commercial - Retail	Commercial - Retail	N							
57	1.62	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Very Low Density Residential	N							
58	104.18	19.62	0.09	0.00	19.72	19%	Commercial - Retail	Industrial	N				y	y		y
59	4.67	1.66	0.00	0.00	1.66	36%	Undeveloped Land	Industrial	N							y
60	13.45	1.30	0.00	0.00	1.30	10%	Unmanaged Rural Lands	Commercial - Retail	N							y
61	8.86	0.23	0.04	0.00	0.27	3%	Rural Residential	Low-Medium Density Residential	N							y
62	52.99	6.90	0.06	0.00	6.95	13%	Unmanaged Rural Lands	Low-Medium Density Residential	N				y			y
63	13.28	1.85	0.56	0.01	2.42	18%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
64	5.02	0.00	0.00	0.00	0.00	0%	Rural Residential	Low-Medium Density Residential	N							y
65	97.86	14.03	0.16	0.00	14.19	14%	Unmanaged Rural Lands	Industrial	N				y	y		y
66	4.87	0.07	0.00	0.00	0.07	2%	Undeveloped Land	Low-Medium Density Residential	N							y
67	16.16	0.24	0.00	0.00	0.24	1%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
68	14.87	0.97	0.00	0.00	0.97	7%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
69	17.72	2.52	0.00	0.00	2.52	14%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y

*This analysis is limited to parcels intersecting high-priority (score 3-5) lands in the Upper Neuse Clean Water Initiative Conservation Plan

Appendix 2: Lick Creek Watershed Restoration Plan: Critical Lands Protection Analysis*

Map ID Number	Parcel Size (Acres)	Total Area of Score 3 (acres)	Total Area of Score 4 (acres)	Total Area of Score 5 (acres)	Area w/ High UNCWI Score (acres)	Percent of Parcel w/ High UNCWI Score	Detailed Current Land Use	Detailed Future Land Use	Building	Volunteer Restoration Opportunities	Major Restoration Opportunities	Adjacent to Public Land	Significant Natural Heritage Areas	East Durham Open Space Plan	Agriculture or Forestry Use Valuation	Developable Parcels
70	23.61	1.85	0.00	0.00	1.85	8%	Forestry	Low-Medium Density Residential	N							
71	18.11	0.86	0.03	0.00	0.89	5%	Unmanaged Rural Lands	Low-Medium Density Residential	N						y	y
72	15.17	2.67	0.00	0.00	2.67	18%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
73	1.84	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N							
74	2.31	0.18	0.34	0.00	0.52	23%	Semi-Rural Residential	Low-Medium Density Residential	N							y
75	1.66	0.37	0.17	0.00	0.53	32%	Very Low Density Residential	Very Low Density Residential	N							
76	1.13	0.23	0.00	0.00	0.23	20%	Urban Green Space	Very Low Density Residential	N							y
77	1.14	0.00	0.00	0.00	0.00	0%	Urban Green Space	Very Low Density Residential	N							y
78	10.93	0.39	0.00	0.00	0.39	4%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
79	11.99	3.07	0.00	0.00	3.07	26%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
80	11.00	0.52	0.00	0.00	0.52	5%	Agriculture - Pasture	Low-Medium Density Residential	N		y				y	y
81	30.61	5.34	0.00	0.00	5.34	17%	Unmanaged Rural Lands	Commercial - Retail	N	y	y					y
82	1.78	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N							
83	3.52	0.02	0.00	0.00	0.02	1%	Rural Residential	Low-Medium Density Residential	N							y
84	2.33	0.30	0.31	0.00	0.62	26%	Undeveloped Land	Low-Medium Density Residential	N							y
85	1.65	0.08	0.00	0.00	0.08	5%	Very Low Density Residential	Very Low Density Residential	N							
86	60.81	11.17	0.10	0.00	11.27	19%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
87	3.13	1.31	0.00	0.00	1.31	42%	Undeveloped Land	Low-Medium Density Residential	N							y
88	15.58	2.53	0.00	0.00	2.53	16%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
89	49.04	5.76	0.00	0.00	5.76	12%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
90	70.14	3.22	0.00	0.00	3.22	5%	Agriculture - Row Crop	Low-Medium Density Residential	N						y	y
91	2.08	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Low-Medium Density Residential	N							y
92	2.05	0.00	0.00	0.00	0.00	0%	Semi-Rural Residential	Low-Medium Density Residential	N							y
93	46.41	1.15	0.06	0.00	1.20	3%	Agriculture - Row Crop	Low-Medium Density Residential	N						y	y
94	10.37	0.47	0.14	0.21	0.82	8%	Institutional	Institutional	N							
95	43.34	1.26	0.03	0.00	1.29	3%	Agriculture - Row Crop	Low-Medium Density Residential	N						y	y
96	45.04	4.38	0.42	0.00	4.80	11%	Forestry	Low-Medium Density Residential	N		y				y	y
97	21.68	3.72	0.36	0.00	4.08	19%	Unmanaged Rural Lands	Low-Medium Density Residential	N		y			y		y
98	2.02	0.00	0.00	0.00	0.00	0%	Institutional	Institutional	N							
99	4.22	0.06	0.04	0.00	0.10	2%	Rural Residential	Low-Medium Density Residential	N							y
100	24.43	2.01	0.00	0.00	2.01	8%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
101	15.93	0.05	0.00	0.00	0.05	0%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
102	1.97	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N							
103	4.01	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Low-Medium Density Residential	N							y
104	2.00	0.00	0.00	0.00	0.00	0%	Forestry	Low-Medium Density Residential	N						y	y
105	45.71	1.37	0.02	0.00	1.39	3%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
106	15.17	1.82	0.00	0.00	1.82	12%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
107	85.47	8.02	0.21	0.00	8.23	10%	Forestry	Low-Medium Density Residential	N						y	y
108	55.91	5.34	0.28	0.00	5.61	10%	Forestry	Low-Medium Density Residential	N						y	y
109	16.70	0.23	0.00	0.00	0.23	1%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
110	3.30	0.15	0.06	0.00	0.21	6%	Rural Residential	Low-Medium Density Residential	N							y
111	7.92	0.06	0.17	0.00	0.22	3%	Rural Residential	Low-Medium Density Residential	N							y
112	2.57	0.00	0.00	0.00	0.00	0%	Semi-Rural Residential	Low-Medium Density Residential	N							y
113	16.71	0.62	0.00	0.00	0.62	4%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
114	70.25	2.07	0.00	0.00	2.07	3%	Forestry	Low-Medium Density Residential	N					y	y	y
115	21.46	1.90	0.79	0.00	2.69	13%	Forestry	Low-Medium Density Residential	N					y	y	y
116	14.74	1.15	0.00	0.00	1.15	8%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
117	4.09	1.05	0.00	0.00	1.05	26%	Rural Residential	Low-Medium Density Residential	N					y		y
118	20.34	0.24	0.00	0.00	0.24	1%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
119	17.65	0.47	0.00	0.00	0.47	3%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
120	24.44	3.39	0.00	0.00	3.39	14%	Unmanaged Rural Lands	Low-Medium Density Residential	N		y					y
121	11.94	1.46	0.27	0.00	1.73	14%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
122	165.49	7.25	1.93	0.00	9.17	6%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
123	6.43	0.28	0.00	0.00	0.28	4%	Rural Residential	Low-Medium Density Residential	N							y
124	5.51	0.62	0.00	0.00	0.62	11%	Rural Residential	Low-Medium Density Residential	N							y
125	8.16	1.31	0.00	0.00	1.31	16%	Rural Residential	Low-Medium Density Residential	N							y
126	7.56	0.97	0.00	0.00	0.97	13%	Undeveloped Land	Low-Medium Density Residential	N							y
127	2.70	0.51	0.03	0.00	0.54	20%	Semi-Rural Residential	Low-Medium Density Residential	N							y
128	89.80	4.50	1.60	0.00	6.10	7%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
129	8.63	0.43	0.07	0.06	0.57	7%	Rural Residential	Low-Medium Density Residential	N							y
130	0.64	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N							
131	3.29	0.01	0.00	0.00	0.01	0%	Undeveloped Land	Low-Medium Density Residential	N							y
132	0.92	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N							
133	2.32	0.22	0.00	0.00	0.22	10%	Semi-Rural Residential	Low-Medium Density Residential	N					y		y
134	7.92	1.80	0.00	0.00	1.80	23%	Undeveloped Land	Low-Medium Density Residential	N							y
135	2.52	0.39	0.05	0.00	0.44	17%	Undeveloped Land	Low-Medium Density Residential	N							y
136	5.28	1.17	0.64	0.05	1.85	35%	Rural Residential	Low-Medium Density Residential	N							y
137	49.33	9.61	1.95	0.00	11.56	23%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
138	5.19	0.00	0.00	0.00	0.00	0%	Rural Residential	Low-Medium Density Residential	N							y
139	49.90	2.51	0.00	0.00	2.51	5%	Forestry	Low-Medium Density Residential	N					y	y	y

*This analysis is limited to parcels intersecting high-priority (score 3-5) lands in the Upper Neuse Clean Water Initiative Conservation Plan

Appendix 2: Lick Creek Watershed Restoration Plan: Critical Lands Protection Analysis*

Map ID Number	Parcel Size (Acres)	Total Area of Score 3 (acres)	Total Area of Score 4 (acres)	Total Area of Score 5 (acres)	Area w/ High UNCWI Score (acres)	Percent of Parcel w/ High UNCWI Score	Detailed Current Land Use	Detailed Future Land Use	Building	Volunteer Restoration Opportunities	Major Restoration Opportunities	Adjacent to Public Land	Significant Natural Heritage Areas	East Durham Open Space Plan	Agriculture or Forestry Use Valuation	Developable Parcels
140	14.48	0.82	0.05	0.00	0.86	6%	Unmanaged Rural Lands	Low-Medium Density Residential	N							
141	16.43	2.59	0.03	0.00	2.62	16%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
142	9.30	0.00	0.00	0.00	0.00	0%	Rural Residential	Low-Medium Density Residential	N							y
143	15.59	0.18	0.00	0.00	0.18	1%	Forestry	Low-Medium Density Residential	N						y	y
144	2.06	0.00	0.00	0.00	0.00	0%	Semi-Rural Residential	Low-Medium Density Residential	N							y
145	2.76	0.34	0.09	0.00	0.43	16%	Semi-Rural Residential	Low-Medium Density Residential	N							y
146	2.58	0.26	0.06	0.00	0.32	12%	Semi-Rural Residential	Low-Medium Density Residential	N							y
147	0.45	0.00	0.00	0.00	0.00	0%	Low Density Residential	Low Density Residential	N							y
148	9.54	4.07	0.00	0.00	4.07	43%	Rural Residential	Low-Medium Density Residential	N							y
149	15.05	1.76	0.00	0.00	1.76	12%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
150	57.80	9.18	0.00	0.00	9.18	16%	Agriculture - Row Crop	Low-Medium Density Residential	N						y	y
151	27.15	5.13	0.00	0.00	5.13	19%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
152	11.24	0.01	0.00	0.00	0.01	0%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
153	24.66	0.99	0.00	0.00	0.99	4%	Agriculture - Pasture	Low-Medium Density Residential	N						y	y
154	207.11	23.92	0.29	0.15	24.36	12%	Agriculture - Pasture	Low-Medium Density Residential	N						y	y
155	36.85	2.33	0.00	0.00	2.33	6%	Forestry	Commercial - Retail	N		y				y	y
156	81.99	3.91	0.20	0.00	4.11	5%	Unmanaged Rural Lands	Low-Medium Density Residential	N				y	y		y
157	0.22	0.15	0.00	0.00	0.15	66%	Urban Green Space	Low-Medium Density Residential	N							y
158	0.19	0.00	0.00	0.00	0.00	0%	Urban Green Space	Low-Medium Density Residential	N							y
159	0.19	0.00	0.00	0.00	0.00	0%	Urban Green Space	Low-Medium Density Residential	N							y
160	0.20	0.00	0.00	0.00	0.00	0%	Urban Green Space	Low-Medium Density Residential	N							y
161	0.24	0.00	0.00	0.00	0.00	0%	Urban Green Space	Low-Medium Density Residential	N							y
162	0.19	0.05	0.00	0.00	0.05	24%	Urban Green Space	Low-Medium Density Residential	N							y
163	0.19	0.00	0.00	0.00	0.00	0%	Urban Green Space	Low-Medium Density Residential	N							y
164	13.71	0.41	0.02	0.00	0.43	3%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
165	67.92	12.22	7.47	0.00	19.69	29%	Agriculture - Row Crop	Low-Medium Density Residential	N				y	y		y
166	14.01	3.34	0.00	0.00	3.34	24%	Agriculture - Row Crop	Low-Medium Density Residential	N						y	y
167	118.35	13.23	0.00	0.00	13.23	11%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
168	10.91	0.07	0.00	0.00	0.07	1%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
169	5.73	2.40	0.00	0.00	2.40	42%	Protected Natural Area - Private set-aside	Protected Natural Area - Private set-aside	N							y
170	77.68	1.98	0.00	0.00	1.98	3%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
171	252.98	5.94	0.00	0.00	5.94	2%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
172	6.94	2.06	0.33	0.00	2.39	34%	Protected Natural Area - Private set-aside	Protected Natural Area - Private set-aside	N							y
173	10.77	0.63	0.03	0.00	0.66	6%	Agriculture - Pasture	Commercial - Retail	N						y	y
174	9.56	1.67	0.87	0.00	2.54	27%	Protected Natural Area - Private set-aside	Protected Natural Area - Private set-aside	N							y
175	66.22	7.96	0.00	0.00	7.96	12%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
176	31.68	5.17	0.07	0.00	5.24	17%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
177	7.15	2.68	0.00	0.00	2.68	38%	Undeveloped Land	Low-Medium Density Residential	N							y
178	3.35	0.47	0.07	0.00	0.54	16%	Protected Natural Area - Private set-aside	Protected Natural Area - Private set-aside	N					y		y
179	0.15	0.06	0.03	0.00	0.08	57%	Urban Green Space	Low-Medium Density Residential	N							y
180	0.21	0.07	0.00	0.00	0.07	34%	Urban Green Space	Low-Medium Density Residential	N							y
181	2.29	0.25	1.24	0.00	1.49	65%	Protected Natural Area - Private set-aside	Protected Natural Area - Private set-aside	N		y			y		y
182	32.99	4.31	1.45	0.00	5.76	17%	Unmanaged Rural Lands	Low-Medium Density Residential	N		y			y		y
183	5.74	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Low-Medium Density Residential	N							y
184	5.81	0.88	0.00	0.00	0.88	15%	Institutional	Institutional	N							y
185	7.03	0.33	0.00	0.00	0.33	5%	Rural Residential	Low-Medium Density Residential	N					y		y
186	1.51	0.30	0.00	0.00	0.30	20%	Protected Natural Area - Private set-aside	Protected Natural Area - Private set-aside	N		y			y		y
187	1.09	0.12	0.31	0.00	0.43	40%	Protected Natural Area - Private set-aside	Protected Natural Area - Private set-aside	N		y			y		y
188	0.22	0.00	0.00	0.00	0.00	0%	Urban Green Space	Low-Medium Density Residential	N					y		y
189	0.25	0.00	0.02	0.00	0.02	7%	Urban Green Space	Low-Medium Density Residential	N					y		y
190	2.62	0.31	1.66	0.00	1.97	75%	Protected Natural Area - Private set-aside	Protected Natural Area - Private set-aside	N		y			y		y
191	0.28	0.00	0.00	0.00	0.00	0%	Urban Green Space	Low Density Residential	N					y		y
192	3.20	0.31	1.06	0.00	1.37	43%	Protected Natural Area - Private set-aside	Protected Natural Area - Private set-aside	N		y			y		y
193	0.21	0.00	0.00	0.00	0.00	0%	Urban Green Space	Low-Medium Density Residential	N					y		y
194	0.20	0.01	0.00	0.00	0.01	5%	Urban Green Space	Low-Medium Density Residential	N					y		y
195	43.43	4.37	0.55	0.00	4.92	11%	Agriculture - Row Crop	Low-Medium Density Residential	N					y	y	y
196	3.38	0.07	0.00	0.00	0.07	2%	Rural Residential	Low-Medium Density Residential	N							y
197	2.17	1.05	0.00	0.00	1.05	48%	Undeveloped Land	Industrial	N				y	y		y
198	31.46	3.76	0.00	0.00	3.76	12%	Unmanaged Rural Lands	Low-Medium Density Residential	N				y	y		y
199	58.33	5.35	4.26	0.00	9.61	16%	Unmanaged Rural Lands	Low-Medium Density Residential	N				y	y		y
200	10.64	4.43	0.41	0.00	4.84	45%	Protected Natural Area - Private set-aside	Protected Natural Area - Private set-aside	N							y
201	2.74	2.16	0.00	0.00	2.16	79%	Semi-Rural Residential	Low-Medium Density Residential	N					y		y
202	39.60	10.28	0.28	0.00	10.57	27%	Unmanaged Rural Lands	Low-Medium Density Residential	N	y			y	y		y
203	25.50	1.98	0.32	0.00	2.30	9%	Unmanaged Rural Lands	Low-Medium Density Residential	N				y	y		y
204	105.58	11.01	25.18	0.01	36.20	34%	Unmanaged Rural Lands	Low-Medium Density Residential	N				y	y		y
205	37.09	5.73	0.00	0.00	5.73	15%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
206	10.04	1.55	0.02	0.00	1.57	16%	Unmanaged Rural Lands	Low-Medium Density Residential	N				y	y		y
207	7.53	0.15	0.00	0.00	0.15	2%	Rural Residential	Low-Medium Density Residential	N							y
208	94.25	6.24	8.46	0.00	14.69	16%	Forestry	Low-Medium Density Residential	N				y	y	y	y
209	1.03	0.16	0.00	0.00	0.16	15%	Very Low Density Residential	Very Low Density Residential	N							y

*This analysis is limited to parcels intersecting high-priority (score 3-5) lands in the Upper Neuse Clean Water Initiative Conservation Plan

Appendix 2: Lick Creek Watershed Restoration Plan: Critical Lands Protection Analysis*

Map ID Number	Parcel Size (Acres)	Total Area of Score 3 (acres)	Total Area of Score 4 (acres)	Total Area of Score 5 (acres)	Area w/ High UNCWI Score (acres)	Percent of Parcel w/ High UNCWI Score	Detailed Current Land Use	Detailed Future Land Use	Building	Volunteer Restoration Opportunities	Major Restoration Opportunities	Adjacent to Public Land	Significant Natural Heritage Areas	East Durham Open Space Plan	Agriculture or Forestry Use Valuation	Developable Parcels
210	2.31	1.11	0.00	0.00	1.11	48%	Semi-Rural Residential	Low-Medium Density Residential	N							y
211	33.14	1.41	0.00	0.00	1.41	4%	Agriculture - Row Crop	Low-Medium Density Residential	N							y
212	2.75	0.28	0.00	0.00	0.28	10%	Semi-Rural Residential	Low-Medium Density Residential	N							y
213	2.10	0.51	0.00	0.00	0.51	24%	Semi-Rural Residential	Low-Medium Density Residential	N							y
214	0.27	0.00	0.00	0.00	0.00	0%	Urban Green Space	Low Density Residential	N							y
215	0.26	0.04	0.00	0.00	0.04	14%	Low Density Residential	Low Density Residential	N							
216	0.43	0.06	0.00	0.00	0.06	15%	Protected Natural Area - Private set-aside	Protected Natural Area - Private set-aside	N							y
217	33.43	3.22	0.06	0.00	3.28	10%	Unmanaged Rural Lands	Low-Medium Density Residential	N				y	y		y
218	0.28	0.03	0.00	0.00	0.03	10%	Urban Green Space	Low Density Residential	N							y
219	3.34	1.83	0.00	0.00	1.83	55%	Protected Natural Area - Private set-aside	Protected Natural Area - Private set-aside	N							y
220	0.23	0.01	0.00	0.00	0.01	4%	Urban Green Space	Low-Medium Density Residential	N							y
221	2.55	1.38	0.00	0.00	1.38	54%	Protected Natural Area - Private set-aside	Protected Natural Area - Private set-aside	N							y
222	0.24	0.00	0.00	0.00	0.00	0%	Urban Green Space	Low-Medium Density Residential	N							y
223	2.48	0.87	0.00	0.00	0.87	35%	Protected Natural Area - Private set-aside	Protected Natural Area - Private set-aside	N							y
224	2.13	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Low-Medium Density Residential	N							y
225	0.23	0.06	0.00	0.00	0.06	28%	Urban Green Space	Low-Medium Density Residential	N							y
226	0.23	0.04	0.00	0.00	0.04	16%	Urban Green Space	Low-Medium Density Residential	N							y
227	0.23	0.02	0.00	0.00	0.02	8%	Urban Green Space	Low-Medium Density Residential	N							y
228	3.36	0.00	0.00	0.00	0.00	0%	Protected Natural Area - Private set-aside	Protected Natural Area - Private set-aside	N							y
229	8.42	1.10	0.01	0.00	1.11	13%	Commercial - Retail	Commercial - Retail	N							
230	0.27	0.00	0.00	0.00	0.00	0%	Low Density Residential	Low Density Residential	N							y
231	0.23	0.00	0.00	0.00	0.00	0%	Low-Medium Density Residential	Low-Medium Density Residential	N							
232	5.65	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Low-Medium Density Residential	N							y
233	3.90	0.00	0.00	0.00	0.00	0%	Rural Residential	Commercial - Retail	N							y
234	215.91	7.36	1.29	0.00	8.65	4%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
235	14.82	0.55	0.06	0.00	0.62	4%	Agriculture - Pasture	Low-Medium Density Residential	N						y	y
236	51.23	2.76	22.61	0.21	25.58	50%	Unmanaged Rural Lands	Low-Medium Density Residential	N	y			y	y		y
237	3.99	0.33	1.87	0.00	2.20	55%	Rural Residential	Low-Medium Density Residential	N	y			y	y		y
238	0.49	0.02	0.38	0.00	0.39	81%	Urban Green Space	Low Density Residential	N	y			y	y		y
239	0.57	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N				y	y		y
240	3.43	0.78	1.78	0.00	2.56	75%	Undeveloped Land	Low-Medium Density Residential	N	y			y	y		y
241	0.46	0.01	0.28	0.00	0.29	63%	Urban Green Space	Low Density Residential	N				y	y		y
242	0.46	0.26	0.00	0.00	0.26	56%	Urban Green Space	Low Density Residential	N				y	y		y
243	2.13	0.06	0.11	0.00	0.17	8%	Semi-Rural Residential	Low-Medium Density Residential	N				y	y		y
244	19.66	1.85	0.92	0.00	2.77	14%	Unmanaged Rural Lands	Low-Medium Density Residential	N				y	y		y
245	0.65	0.24	0.34	0.00	0.58	89%	Urban Green Space	Very Low Density Residential	N	y			y	y		y
246	0.51	0.23	0.02	0.00	0.25	49%	Urban Green Space	Very Low Density Residential	N				y	y		y
247	0.52	0.38	0.11	0.00	0.49	93%	Urban Green Space	Very Low Density Residential	N				y	y		y
248	0.47	0.25	0.06	0.00	0.31	67%	Urban Green Space	Low Density Residential	N	y			y	y		y
249	16.30	3.51	8.75	0.01	12.27	75%	Unmanaged Rural Lands	Low-Medium Density Residential	N	y			y	y		y
250	0.47	0.25	0.17	0.00	0.41	88%	Urban Green Space	Low Density Residential	N				y	y		y
251	0.48	0.25	0.00	0.00	0.25	52%	Low Density Residential	Low Density Residential	N				y	y		y
252	0.87	0.46	0.17	0.00	0.63	73%	Urban Green Space	Very Low Density Residential	N				y	y		y
253	4.08	0.65	2.92	0.00	3.57	87%	Undeveloped Land	Low-Medium Density Residential	N	y			y	y		y
254	2.14	0.42	0.26	0.00	0.68	32%	Semi-Rural Residential	Low-Medium Density Residential	N				y	y		y
255	1.06	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N					y		
256	5.02	1.01	2.61	0.00	3.62	72%	Undeveloped Land	Low-Medium Density Residential	N					y		y
257	1.76	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N							
258	2.20	0.01	0.17	0.00	0.18	8%	Semi-Rural Residential	Low-Medium Density Residential	N							y
259	1.85	0.00	0.00	0.00	0.00	0%	Urban Green Space	Very Low Density Residential	N							y
260	1.66	0.00	0.00	0.00	0.00	0%	Urban Green Space	Very Low Density Residential	N							y
261	1.88	0.09	0.00	0.00	0.09	5%	Very Low Density Residential	Very Low Density Residential	N							y
262	0.84	0.01	0.00	0.00	0.01	1%	Urban Green Space	Very Low Density Residential	N							y
263	2.06	0.00	0.07	0.00	0.07	4%	Semi-Rural Residential	Low-Medium Density Residential	N							y
264	0.69	0.00	0.00	0.00	0.00	0%	Urban Green Space	Very Low Density Residential	N							y
265	0.00	0.06	0.15	0.00	0.20	#DIV/0!	Urban Green Space	Urban Green Space	N							
266	5.96	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Low-Medium Density Residential	N							y
267	2.41	0.00	0.00	0.00	0.00	0%	Semi-Rural Residential	Low-Medium Density Residential	N							y
268	1.78	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Very Low Density Residential	N							y
269	0.55	0.03	0.00	0.00	0.03	5%	Very Low Density Residential	Very Low Density Residential	N							
270	0.22	0.00	0.00	0.00	0.00	0%	Urban Green Space	Low-Medium Density Residential	N							y
271	6.99	0.16	0.00	0.00	0.16	2%	Rural Residential	Low-Medium Density Residential	N							y
272	176.16	20.73	20.96	0.00	41.69	24%	Agriculture - Pasture	Low-Medium Density Residential	N	y			y	y	y	y
273	6.29	0.57	0.14	0.34	1.05	17%	Rural Residential	Low-Medium Density Residential	N					y	y	y
274	34.66	4.39	10.70	0.00	15.09	44%	Forestry	Low-Medium Density Residential	N	y			y	y	y	y
275	3.55	2.02	0.00	0.00	2.02	57%	Rural Residential	Low-Medium Density Residential	N	y			y	y		y
276	158.11	14.55	3.92	0.00	18.48	12%	Unmanaged Rural Lands	Low-Medium Density Residential	N				y	y		y
277	21.58	1.88	2.35	0.00	4.23	20%	Unmanaged Rural Lands	Low-Medium Density Residential	N				y	y		y
278	50.47	4.96	6.67	0.00	11.63	23%	Forestry	Low-Medium Density Residential	N				y	y	y	y
279	71.88	4.96	10.78	0.69	16.43	23%	Forestry	Low-Medium Density Residential	N				y	y	y	y

*This analysis is limited to parcels intersecting high-priority (score 3-5) lands in the Upper Neuse Clean Water Initiative Conservation Plan

Appendix 2: Lick Creek Watershed Restoration Plan: Critical Lands Protection Analysis*

Map ID Number	Parcel Size (Acres)	Total Area of Score 3 (acres)	Total Area of Score 4 (acres)	Total Area of Score 5 (acres)	Area w/ High UNCWI Score (acres)	Percent of Parcel w/ High UNCWI Score	Detailed Current Land Use	Detailed Future Land Use	Building	Volunteer Restoration Opportunities	Major Restoration Opportunities	Adjacent to Public Land	Significant Natural Heritage Areas	East Durham Open Space Plan	Agriculture or Forestry Use Valuation	Developable Parcels
280	12.46	1.08	0.00	0.00	1.08	9%	Unmanaged Rural Lands	Low-Medium Density Residential	N							
281	9.16	2.26	0.07	0.00	2.33	25%	Undeveloped Land	Low-Medium Density Residential	N							y
282	6.00	0.90	0.00	0.00	0.90	15%	Rural Residential	Low-Medium Density Residential	N							y
283	94.00	7.54	16.52	0.00	24.06	26%	Forestry	Low-Medium Density Residential	N				y	y	y	y
284	6.09	1.43	0.02	0.00	1.45	24%	Rural Residential	Low-Medium Density Residential	N				y			y
285	25.11	1.54	10.55	0.00	12.09	48%	Unmanaged Rural Lands	Low-Medium Density Residential	N				y	y		y
286	21.85	2.53	0.00	0.00	2.53	12%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
287	3.69	0.06	0.06	0.00	0.13	3%	Rural Residential	Low-Medium Density Residential	N							y
288	219.78	10.46	1.85	0.09	12.40	6%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
289	4.94	0.51	0.09	0.00	0.61	12%	Rural Residential	Low-Medium Density Residential	N							y
290	24.13	4.60	3.57	0.00	8.17	34%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
291	2.19	0.07	0.00	0.00	0.07	3%	Undeveloped Land	Low-Medium Density Residential	N							y
292	2.74	0.94	0.16	0.00	1.09	40%	Semi-Rural Residential	Low-Medium Density Residential	N				y	y		y
293	292.32	13.87	4.73	0.00	18.60	6%	Forestry	Low-Medium Density Residential	N				y	y	y	y
294	421.00	5.00	2.40	0.00	7.39	2%	Forestry	Low-Medium Density Residential	N				y	y	y	y
295	84.10	6.24	2.41	0.00	8.65	10%	Unmanaged Rural Lands	Low-Medium Density Residential	N				y	y		y
296	2.91	0.30	0.70	0.00	1.00	34%	Semi-Rural Residential	Low-Medium Density Residential	N				y	y		y
297	10.15	0.35	2.03	0.03	2.41	24%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
298	10.29	0.79	2.81	0.00	3.60	35%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
299	16.50	0.49	3.91	0.00	4.40	27%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
300	31.98	0.20	4.23	0.00	4.44	14%	Forestry	Low-Medium Density Residential	N					y	y	y
301	178.66	8.80	18.90	0.12	27.81	16%	Forestry	Low-Medium Density Residential	N				y	y	y	y
302	25.23	3.23	0.00	0.00	3.23	13%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
303	22.74	1.41	0.14	0.00	1.55	7%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
304	5.47	0.12	0.03	0.00	0.15	3%	Semi-Rural Residential	Low-Medium Density Residential	N							y
305	5.01	0.00	0.00	0.00	0.00	0%	Rural Residential	Low-Medium Density Residential	N							y
306	8.18	0.14	0.00	0.00	0.14	2%	Undeveloped Land	Low-Medium Density Residential	N							y
307	1.17	0.18	0.00	0.00	0.18	16%	Very Low Density Residential	Very Low Density Residential	N							
308	8.45	0.27	0.00	0.00	0.27	3%	Urban Green Space	Urban Green Space	N							
309	1.21	0.32	0.00	0.00	0.32	27%	Industrial	Very Low Density Residential	N							y
310	22.33	3.09	0.00	0.00	3.09	14%	Urban Green Space	Urban Green Space	N		y					
311	51.86	4.71	0.10	0.00	4.81	9%	Unmanaged Rural Lands	Low-Medium Density Residential	N		y					y
312	13.38	0.00	0.00	0.00	0.00	0%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
313	80.88	8.37	5.53	0.05	13.95	17%	Forestry	Low-Medium Density Residential	N				y	y	y	y
314	0.51	0.22	0.00	0.00	0.22	44%	Urban Green Space	Very Low Density Residential	N							y
315	20.23	0.89	0.62	0.00	1.51	7%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
316	0.51	0.12	0.00	0.00	0.12	24%	Urban Green Space	Very Low Density Residential	N							y
317	0.50	0.15	0.00	0.00	0.15	29%	Very Low Density Residential	Very Low Density Residential	N							
318	2.05	0.00	0.00	0.00	0.00	0%	Semi-Rural Residential	Semi-Rural Residential	N							y
319	88.49	3.31	0.05	0.00	3.35	4%	Urban Green Space	Urban Green Space	N		y					y
320	52.24	0.21	0.00	0.00	0.21	0%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
321	2.45	0.07	0.08	0.01	0.17	7%	Undeveloped Land	Low-Medium Density Residential	N				y	y		y
322	3.23	0.02	0.00	0.00	0.02	1%	Rural Residential	Low-Medium Density Residential	N							y
323	130.59	24.83	27.82	6.93	59.59	46%	Forestry	Low-Medium Density Residential	N			y	y	y	y	y
324	5.50	0.17	0.71	0.04	0.92	17%	Rural Residential	Rural Residential	N			y	y	y		y
325	194.22	5.42	0.63	0.00	6.05	3%	Forestry	Low-Medium Density Residential	N				y	y	y	y
326	43.84	18.23	0.57	0.05	18.84	43%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N			y	y	y		y
327	50.50	4.95	15.19	28.81	48.94	97%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y	y		
328	5.32	0.26	0.03	0.00	0.28	5%	Undeveloped Land	Low-Medium Density Residential	N					y		y
329	1.33	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N					y		
330	2.00	0.01	0.00	0.00	0.01	0%	Semi-Rural Residential	Low-Medium Density Residential	N					y		y
331	85.10	5.89	1.26	0.17	7.31	9%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N				y	y		y
332	11.07	1.30	0.25	0.00	1.55	14%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
333	8.05	1.07	0.03	0.00	1.09	14%	Rural Residential	Low-Medium Density Residential	N					y		y
334	8.89	0.79	0.08	0.00	0.87	10%	Undeveloped Land	Low-Medium Density Residential	N					y		y
335	42.71	3.18	1.95	0.11	5.23	12%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
336	42.72	2.92	1.97	0.13	5.01	12%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N					y		y
337	45.96	2.31	0.11	0.00	2.42	5%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N			y	y	y		y
338	10.23	0.12	0.68	0.00	0.80	8%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N					y		y
339	6.21	1.15	0.24	0.00	1.39	22%	Rural Residential	Low-Medium Density Residential	N					y		y
340	63.66	12.66	0.62	0.00	13.29	21%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N					y		y
341	82.82	3.18	0.00	0.00	3.18	4%	Forestry	Rural Residential (New Subdivisions)	N				y	y	y	y
342	0.30	0.17	0.01	0.00	0.17	59%	Undeveloped Land	Low Density Residential	N					y		y
343	0.29	0.18	0.00	0.00	0.18	63%	Undeveloped Land	Low Density Residential	N					y		y
344	0.39	0.17	0.00	0.00	0.17	45%	Undeveloped Land	Low Density Residential	N					y		y
345	0.48	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Low Density Residential	N					y		y
346	0.54	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Very Low Density Residential	N					y		y
347	1.40	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Very Low Density Residential	N					y		y
348	64.47	5.15	3.89	0.56	9.61	15%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N					y	y	y
349	71.08	5.38	0.65	0.00	6.03	8%	Forestry	Rural Residential (New Subdivisions)	N				y	y	y	y

*This analysis is limited to parcels intersecting high-priority (score 3-5) lands in the Upper Neuse Clean Water Initiative Conservation Plan

Appendix 2: Lick Creek Watershed Restoration Plan: Critical Lands Protection Analysis*

Map ID Number	Parcel Size (Acres)	Total Area of Score 3 (acres)	Total Area of Score 4 (acres)	Total Area of Score 5 (acres)	Area w/ High UNCWI Score (acres)	Percent of Parcel w/ High UNCWI Score	Detailed Current Land Use	Detailed Future Land Use	Building	Volunteer Restoration Opportunities	Major Restoration Opportunities	Adjacent to Public Land	Significant Natural Heritage Areas	East Durham Open Space Plan	Agriculture or Forestry Use Valuation	Developable Parcels
350	40.80	7.03	1.65	0.00	8.69	21%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
351	57.69	1.47	1.63	0.07	3.17	5%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
352	9.30	1.05	0.00	0.00	1.05	11%	Rural Residential	Low-Medium Density Residential	N							y
353	60.30	8.56	0.08	0.00	8.64	14%	Forestry	Rural Residential (New Subdivisions)	N				y	y	y	y
354	50.84	3.49	1.11	0.00	4.60	9%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N				y	y		y
355	6.54	1.59	0.00	0.00	1.59	24%	Rural Residential	Low-Medium Density Residential	N							y
356	16.31	0.92	0.21	0.00	1.13	7%	Rural Residential	Low-Medium Density Residential	N							y
357	4.42	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Low-Medium Density Residential	N					y		y
358	6.64	0.53	0.19	0.00	0.73	11%	Rural Residential	Low-Medium Density Residential	N					y		y
359	1.47	0.00	0.04	0.00	0.04	2%	Undeveloped Land	Very Low Density Residential	N					y		y
360	0.85	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N							
361	0.67	0.11	0.07	0.00	0.18	28%	Undeveloped Land	Very Low Density Residential	N							y
362	11.47	2.98	0.00	0.00	2.98	26%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
363	14.73	0.57	0.00	0.00	0.57	4%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
364	91.14	9.13	0.00	0.00	9.13	10%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
365	139.15	10.05	3.34	0.00	13.39	10%	Agriculture - Pasture	Low-Medium Density Residential	N	y				y		y
366	3.09	0.00	0.28	0.00	0.28	9%	Rural Residential	Low-Medium Density Residential	N					y		y
367	16.11	2.82	0.00	0.00	2.82	18%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
368	20.92	0.28	0.00	0.00	0.28	1%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
369	89.84	9.04	0.00	0.00	9.04	10%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
370	306.32	7.36	0.06	0.00	7.42	2%	Forestry	Low-Medium Density Residential	N						y	y
371	1.78	0.62	0.00	0.00	0.62	35%	Very Low Density Residential	Very Low Density Residential	N							
372	3.57	0.59	0.05	0.00	0.63	18%	Rural Residential	Low-Medium Density Residential	N							y
373	13.90	0.16	0.00	0.00	0.16	1%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
374	92.83	7.02	1.16	0.00	8.17	9%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
375	0.70	0.09	0.01	0.00	0.10	15%	Undeveloped Land	Very Low Density Residential	N					y		y
376	0.65	0.14	0.10	0.00	0.24	37%	Undeveloped Land	Very Low Density Residential	N					y		y
377	63.81	7.45	0.00	0.00	7.45	12%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
378	2.41	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Low-Medium Density Residential	N							y
379	3.47	0.51	0.01	0.00	0.51	15%	Rural Residential	Low-Medium Density Residential	N					y		y
380	0.46	0.23	0.10	0.00	0.33	72%	Undeveloped Land	Low Density Residential	N					y		y
381	64.51	13.59	0.93	0.00	14.52	23%	Forestry	Low-Medium Density Residential	N					y	y	y
382	32.82	13.69	3.66	0.00	17.36	53%	Unmanaged Rural Lands	Low-Medium Density Residential	N					y		y
383	16.26	4.13	0.00	0.00	4.13	25%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
384	3.55	0.56	0.00	0.00	0.56	16%	Undeveloped Land	Low-Medium Density Residential	N							y
385	2.82	0.04	0.00	0.00	0.04	1%	Undeveloped Land	Low-Medium Density Residential	N							y
386	11.39	0.00	0.00	0.00	0.00	0%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
387	5.04	0.00	0.00	0.00	0.00	0%	Rural Residential	Low-Medium Density Residential	N							y
388	19.56	0.28	0.17	0.00	0.45	2%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
389	3.02	0.18	0.05	0.00	0.23	8%	Rural Residential	Low-Medium Density Residential	N							y
390	0.91	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N							
391	4.25	0.00	0.00	0.00	0.00	0%	Rural Residential	Rural Residential	N							
392	1.43	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N							
393	64.78	0.00	0.00	0.00	0.00	0%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
394	3.50	1.86	0.00	0.00	1.86	53%	Rural Residential	Rural Residential	N							
395	18.91	2.56	0.00	0.00	2.56	14%	Unmanaged Rural Lands	Low-Medium Density Residential	N	y						y
396	15.44	0.59	0.00	0.00	0.59	4%	Unmanaged Rural Lands	Low-Medium Density Residential	N	y						y
397	2.29	0.00	0.00	0.00	0.00	0%	Commercial - Retail	Low-Medium Density Residential	N							y
398	3.62	0.00	0.00	0.00	0.00	0%	Rural Residential	Low-Medium Density Residential	N							y
399	6.91	0.06	0.00	0.00	0.06	1%	Rural Residential	Rural Residential (New Subdivisions)	N							
400	41.75	0.17	0.00	0.00	0.17	0%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
401	50.06	3.47	0.00	0.00	3.47	7%	Forestry	Rural Residential (New Subdivisions)	N						y	y
402	18.34	0.84	0.00	0.00	0.84	5%	Forestry	Rural Residential (New Subdivisions)	N						y	y
403	2.56	0.05	0.00	0.00	0.05	2%	Semi-Rural Residential	Semi-Rural Residential	N							y
404	7.70	1.98	0.00	0.00	1.98	26%	Rural Residential	Rural Residential (New Subdivisions)	N							
405	7.76	0.57	0.00	0.00	0.57	7%	Rural Residential	Rural Residential (New Subdivisions)	N							
406	6.80	0.06	0.00	0.00	0.06	1%	Rural Residential	Rural Residential (New Subdivisions)	N							
407	10.00	0.18	0.00	0.00	0.18	2%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
408	26.67	4.03	0.00	0.00	4.03	15%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
409	8.57	0.18	0.00	0.00	0.18	2%	Undeveloped Land	Rural Residential (New Subdivisions)	N							y
410	8.61	0.29	0.00	0.00	0.29	3%	Undeveloped Land	Rural Residential (New Subdivisions)	N							y
411	50.74	5.53	2.43	0.00	7.96	16%	Forestry	Rural Residential (New Subdivisions)	N			y	y		y	y
412	39.94	2.28	0.36	0.02	2.65	7%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
413	43.22	3.23	0.62	0.23	4.08	9%	Forestry	Rural Residential (New Subdivisions)	N			y			y	y
414	6.39	0.26	0.00	0.00	0.26	4%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
415	11.44	0.28	0.00	0.00	0.28	2%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
416	64.90	2.81	0.17	0.00	2.98	5%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N			y	y			y
417	45.41	4.65	2.54	0.93	8.12	18%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
418	28.02	0.88	0.00	0.00	0.88	3%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
419	35.84	0.73	0.00	0.00	0.73	2%	Forestry	Rural Residential (New Subdivisions)	N			y	y		y	y

*This analysis is limited to parcels intersecting high-priority (score 3-5) lands in the Upper Neuse Clean Water Initiative Conservation Plan

Appendix 2: Lick Creek Watershed Restoration Plan: Critical Lands Protection Analysis*

Map ID Number	Parcel Size (Acres)	Total Area of Score 3 (acres)	Total Area of Score 4 (acres)	Total Area of Score 5 (acres)	Area w/ High UNCWI Score (acres)	Percent of Parcel w/ High UNCWI Score	Detailed Current Land Use	Detailed Future Land Use	Building	Volunteer Restoration Opportunities	Major Restoration Opportunities	Adjacent to Public Land	Significant Natural Heritage Areas	East Durham Open Space Plan	Agriculture or Forestry Use Valuation	Developable Parcels
420	9.37	0.50	0.01	0.00	0.51	5%	Rural Residential	Rural Residential (New Subdivisions)	N							
421	15.03	4.17	0.00	0.00	4.17	28%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
422	11.12	3.54	0.08	0.00	3.63	33%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N				y	y		y
423	7.58	0.00	0.00	0.00	0.00	0%	Rural Residential	Rural Residential (New Subdivisions)	N							
424	7.16	1.18	0.00	0.00	1.18	17%	Undeveloped Land	Rural Residential (New Subdivisions)	N							y
425	16.02	0.00	0.00	0.00	0.00	0%	Unmanaged Rural Lands	Low-Medium Density Residential	N							y
426	14.41	4.17	0.00	0.00	4.17	29%	Forestry	Rural Residential (New Subdivisions)	N			y	y		y	y
427	3.79	0.00	0.00	0.00	0.00	0%	Forestry	Rural Residential	N						y	y
428	10.03	1.47	1.21	0.00	2.68	27%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
429	34.70	1.69	1.49	0.00	3.18	9%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
430	165.73	5.11	0.46	0.00	5.56	3%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
431	32.00	2.20	15.27	7.33	24.80	78%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y	y		
432	2.52	0.00	0.00	0.00	0.00	0%	Semi-Rural Residential	Semi-Rural Residential	N							y
433	6.61	0.17	0.00	0.00	0.17	3%	Undeveloped Land	Rural Residential (New Subdivisions)	N			y	y			y
434	651.03	7.02	1.79	0.00	8.81	1%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N			y	y			y
435	11.97	0.96	3.60	0.00	4.56	38%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			y
436	9.64	0.41	1.15	0.06	1.62	17%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
437	5.28	1.25	2.99	0.00	4.24	80%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y	y		
438	82.56	4.03	14.56	4.07	22.66	27%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y	y		
439	137.27	4.02	7.23	0.03	11.28	8%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
440	24.65	7.45	0.00	0.00	7.45	30%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N			y	y	y		y
441	66.68	2.38	0.64	0.00	3.02	5%	Forestry	Rural Residential (New Subdivisions)	N			y	y		y	y
442	6.33	2.33	0.00	0.00	2.33	37%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y		y	
443	45.93	1.03	12.68	4.55	18.26	40%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
444	31.66	7.37	13.95	0.45	21.77	69%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
445	6.10	3.15	0.00	0.00	3.15	52%	Rural Residential	Rural Residential (New Subdivisions)	N							
446	10.07	0.04	0.00	0.00	0.04	0%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
447	23.14	0.44	0.00	0.00	0.44	2%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
448	59.29	1.18	30.84	9.26	41.28	70%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
449	12.43	2.14	1.12	0.11	3.37	27%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
450	2.63	0.18	0.00	0.00	0.18	7%	Undeveloped Land	Semi-Rural Residential	N							y
451	36.39	6.94	0.87	0.14	7.95	22%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N			y	y			y
452	8.57	0.00	0.26	0.00	0.26	3%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
453	16.43	0.30	0.00	0.00	0.30	2%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
454	20.22	0.01	0.00	0.00	0.01	0%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
455	7.35	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Rural Residential (New Subdivisions)	N							y
456	14.40	0.02	0.00	0.00	0.02	0%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
457	3.71	0.27	0.29	0.04	0.60	16%	Rural Residential	Rural Residential	N							
458	3560.82	12.52	205.42	33.52	251.45	7.1%	Water	Rural Residential (New Subdivisions)	N			y	y			
459	0.93	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N							
460	0.95	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N							
461	0.92	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N							
462	1.23	0.00	0.00	0.00	0.00	0%	Urban Green Space	Very Low Density Residential	N							y
463	1.63	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N							
464	2.62	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Low-Medium Density Residential	N							y
465	0.91	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N							
466	1.69	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N							
467	3.90	0.78	0.00	0.00	0.78	20%	Rural Residential	Low-Medium Density Residential	N							y
468	2.48	0.41	0.00	0.00	0.41	17%	Semi-Rural Residential	Low-Medium Density Residential	N							y
469	54.88	7.25	0.00	0.00	7.25	13%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N				y	y		y
470	7.14	0.04	0.00	0.00	0.04	1%	Undeveloped Land	Low-Medium Density Residential	N							y
471	135.45	23.81	0.66	0.00	24.47	18%	Forestry	Rural Residential (New Subdivisions)	N				y	y	y	y
472	2.58	0.41	0.00	0.00	0.41	16%	Semi-Rural Residential	Low-Medium Density Residential	N					y	y	y
473	1.84	0.25	0.00	0.00	0.25	13%	Very Low Density Residential	Low-Medium Density Residential	N					y	y	y
474	31.37	6.80	0.00	0.00	6.80	22%	Forestry	Rural Residential (New Subdivisions)	N				y	y	y	y
475	25.33	3.32	0.00	0.00	3.32	13%	Forestry	Rural Residential (New Subdivisions)	N				y	y	y	y
476	96.75	11.04	0.00	0.00	11.04	11%	Forestry	Rural Residential (New Subdivisions)	N				y	y	y	y
477	5.28	1.19	0.00	0.00	1.19	23%	Rural Residential	Rural Residential	N							
478	5.42	0.44	0.00	0.00	0.44	8%	Rural Residential	Rural Residential	N							
479	0.92	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N							
480	0.93	0.00	0.00	0.00	0.00	0%	Very Low Density Residential	Very Low Density Residential	N							
481	1.40	0.01	0.00	0.00	0.01	1%	Very Low Density Residential	Very Low Density Residential	N							
482	2.00	0.33	0.00	0.00	0.33	17%	Very Low Density Residential	Very Low Density Residential	N							
483	1.27	0.62	0.00	0.00	0.62	49%	Urban Green Space	Very Low Density Residential	N							y
484	2.38	0.16	0.00	0.00	0.16	7%	Semi-Rural Residential	Semi-Rural Residential	N							
485	8.18	1.40	0.09	0.00	1.49	18%	Rural Residential	Rural Residential (New Subdivisions)	N			y				
486	2.04	0.73	0.00	0.00	0.73	36%	Protected Natural Area - Public	Protected Natural Area - Public	N			y				
487	96.25	6.65	7.36	0.25	14.25	15%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
488	138.39	3.55	6.22	0.59	10.36	7%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
489	15.76	0.23	0.02	0.00	0.25	2%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			

*This analysis is limited to parcels intersecting high-priority (score 3-5) lands in the Upper Neuse Clean Water Initiative Conservation Plan

Appendix 2: Lick Creek Watershed Restoration Plan: Critical Lands Protection Analysis*

Map ID Number	Parcel Size (Acres)	Total Area of Score 3 (acres)	Total Area of Score 4 (acres)	Total Area of Score 5 (acres)	Area w/ High UNCWI Score (acres)	Percent of Parcel w/ High UNCWI Score	Detailed Current Land Use	Detailed Future Land Use	Building	Volunteer Restoration Opportunities	Major Restoration Opportunities	Adjacent to Public Land	Significant Natural Heritage Areas	East Durham Open Space Plan	Agriculture or Forestry Use Valuation	Developable Parcels
490	27.61	4.22	0.17	0.00	4.39	16%	Protected Natural Area - Public	Protected Natural Area - Public	N			y				
491	7.56	0.33	0.40	0.30	1.04	14%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
492	25.27	7.16	3.75	0.02	10.93	43%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y	y		
493	20.59	3.98	2.79	0.00	6.77	33%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y	y		
494	510.88	50.09	35.45	7.31	92.85	18%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
495	3.87	0.00	0.00	0.00	0.00	0%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y	y		
496	34.79	0.01	2.26	0.00	2.27	7%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y	y		
497	241.41	27.88	11.97	0.46	40.31	17%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y	y		
498	9.68	2.35	0.00	0.00	2.35	24%	Undeveloped Land	Rural Residential (New Subdivisions)	N				y	y		y
499	35.78	3.49	0.00	0.00	3.49	10%	Forestry	Rural Residential (New Subdivisions)	N			y	y	y	y	y
500	26.06	14.88	0.55	0.00	15.43	59%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			y
501	5.51	0.04	0.00	0.00	0.04	1%	Rural Residential	Rural Residential	N					y		
502	9.78	2.96	0.63	0.00	3.59	37%	Undeveloped Land	Rural Residential (New Subdivisions)	N					y		y
503	119.87	8.46	6.03	0.00	14.49	12%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N				y	y		y
504	1.65	0.01	0.00	0.00	0.01	1%	Very Low Density Residential	Very Low Density Residential	N							
505	9.37	0.51	0.31	0.02	0.84	9%	Rural Residential	Rural Residential (New Subdivisions)	N							
506	25.59	3.88	0.08	0.00	3.97	16%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N				y			y
507	63.15	26.46	0.00	0.00	26.46	42%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N			y	y			y
508	233.48	17.70	0.94	0.00	18.63	8%	Forestry	Rural Residential (New Subdivisions)	N				y	y	y	y
509	25.27	2.34	0.58	0.00	2.92	12%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
510	4.46	0.40	0.00	0.00	0.40	9%	Rural Residential	Rural Residential	N					y		
511	0.93	0.00	0.00	0.00	0.00	0%	Undeveloped Land	Very Low Density Residential	N					y		y
512	1.45	0.12	0.25	0.00	0.37	25%	Undeveloped Land	Very Low Density Residential	N							y
513	2.03	0.00	0.00	0.00	0.00	0%	Semi-Rural Residential	Semi-Rural Residential	N					y		
514	3.57	0.00	0.00	0.00	0.00	0%	Rural Residential	Rural Residential	N					y		
515	18.33	4.30	0.89	0.22	5.41	30%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N			y	y	y		y
516	12.89	0.01	0.00	0.00	0.01	0%	Protected Natural Area - Public	Protected Natural Area - Public	N				y	y		
517	2.40	0.07	0.00	0.00	0.07	3%	Undeveloped Land	Semi-Rural Residential	N							y
518	16.44	1.70	0.00	0.00	1.70	10%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
519	20.25	4.02	0.00	0.00	4.02	20%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
520	14.12	1.28	0.61	0.00	1.88	13%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
521	33.62	6.37	0.00	0.00	6.37	19%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N			y	y	y		y
522	19.62	7.17	0.84	0.07	8.08	41%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N			y	y	y		y
523	3.19	1.50	0.00	0.00	1.50	47%	Rural Residential	Rural Residential	N							
524	3.09	1.45	0.00	0.00	1.45	47%	Rural Residential	Rural Residential	N							
525	6.09	1.46	0.19	0.00	1.65	27%	Undeveloped Land	Rural Residential (New Subdivisions)	N							y
526	14.45	1.11	0.00	0.00	1.11	8%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
527	12.77	2.87	0.00	0.00	2.87	23%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N							y
528	9.39	1.40	0.00	0.00	1.40	15%	Undeveloped Land	Rural Residential	N							y
529	38.79	26.80	0.00	0.00	26.80	69%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N					y		y
530	25.66	3.39	0.00	0.00	3.39	13%	Unmanaged Rural Lands	Rural Residential (New Subdivisions)	N			y	y	y		y
531	2.51	0.12	0.00	0.00	0.12	5%	Undeveloped Land	Semi-Rural Residential	N			y	y			y
532	5.13	0.10	0.00	0.00	0.10	2%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
533	30.80	5.52	1.05	0.11	6.68	22%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
534	25.61	2.13	0.00	0.00	2.13	8%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
535	29.79	1.76	0.72	0.06	2.53	9%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
536	22.61	0.76	0.93	0.04	1.73	8%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			
537	134.90	22.79	3.87	2.52	29.17	22%	Special Use - Marina	Special Use - Marina	N			y	y			
538	94.62	35.20	4.47	1.22	40.89	43%	Protected Natural Area - Public	Protected Natural Area - Public	N			y	y			

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