

Lick Creek - Winter 2007 Fieldwork  
Findings and Recommendations

**Table A-9: REACH DESCRIPTIONS**

Reach ID	Location	Description	Score			Condition	Length (feet)
			Instream	Riparian	Total		
RCH-507	Downstream of Ridgeline Dr	High quality, stable stream with riffles and meanders. Threatened by new upstream development. "Rivals anything in the Eno River watershed for beauty. It's even better downstream!"	75	77	152	Optimal	1148
RCH-506	West of Chestnut Hill Rd	High quality, stable stream with riffles.	70	76	146		727
RCH-206	Located off Uppercross Ct.	Forested, meandering stream. Located near powerlines.	68	77	145		307
RCH-208	Located off Kintail Dr.	Forested intermittent stream. Located adjacent to residential development.	72	73	145		376
RCH-207	Located off Kintail Dr.	Forested intermittent stream. Located adjacent to residential development.	70	73	143		522
RCH-100	Upstream of Hwy 70 near Angier Ave. intersection	Mostly stable, 1st order stream through forested floodplain. There are headcuts forming (ER-100) below outfalls at apartment complex (Beta Rd.)	68	60	128	Sub-Optimal	1651
RCH-102	Parallel to Hwy 70 between powerline ROW and Page Rd Ext.	1st order stream draining Boats Unlimited. Mostly forested buffer, small wetland (possibly stormwater) at head of stream. Old trash dumping (TR-100) biggest issue.	69	59	128		1241
RCH-112	Off Poplar in Brightwood Subdivision	1st order stream draining small wetland. Some headcutting and embankment failure (ER111) along channel near existing wetland and along construction perimeter. More development likely in the area.	64	47	111		814
RCH-121	Parallel to Weathervane Dr in Ravenstone subdivision	2nd order stream that is diverted into stormwater pond at Rondelay. Mostly forested buffer on the RT, construction and sewer ROW activities on the LT. Biggest issue include protecting remaining buffer, maintenance at confluence, and ESC issues associated with construction activities (particularly at Hillview Dr.).	57	60	117		2787
RCH-150	Between Rondelay Rd. and mainstem	Braided channel through forested area, significant headcuts (ER150) at confluence with mainstem (RCH 120)	55	77	132		328

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RCH-160	North of Hester Rd. Crossing	2nd order tributary draining two farm ponds. Lower portion of reach behind residential area, septic pipes have chlorinators and there is minor buffer encroachment. Steep slopes further upstream result in eroded meander bends and exposed diabased sills. Nicely forested buffer. No real issues observed.	52	66	118	Sub-Optimal	1547
RCH-161	South of Hester Rd. Crossing	Braided, forested wetland/floodplain area with sycamore and poplar and musclewoods. Confluence downstream at horse pasture.	74	52	126		1128
RCH-200	Located off Uppercross Ct.	Stream has some forested buffer, located adjacent to residential homes.	61	65	126		622
RCH-202	Located off Uppercross Ct.	Forested stream	66	69	135		306
RCH-203	Located off Uppercross Ct.	Forested, meandering stream	58	76	134		131
RCH-204	Located off Uppercross Ct.	Forested, meandering stream. Located near powerline easement.	61	78	139		941
RCH-205	Located off Uppercross Ct.	Forested, meandering stream	60	77	137		195
RCH-209	Located off Kintail Dr.	Forested stream behind residential subdivision	61	69	130		661
RCH-210	Located off Kintail Dr. and Strathmore Dr.	Stream is impacted by residential lawns, failing sediment basin, then becomes a nice forested stream.	65	65	130		1322
RCH-213	Located off Carpenter Pond Rd.	Old farm pond drains to forested stream. Adjacent to horse farm.	64	69	133		783
RCH-214	Located off Coley Rd.	Old farm pond drains to forested stream.	72	70	142		308
RCH-215	Along powerlines off Virgil Rd.	Forested stream, evidence of wildlife.	70	62	132		685
RCH-217	Along powerlines off Virgil Rd.	Forested stream, evidence of wildlife, diabase sills noted.	67	73	140		3846
RCH-218	Along powerlines off Virgil Rd.	Forested stream, evidence of wildlife, diabase sills noted. Located near concrete mixing site.	73	69	142		3122
RCH-224	Located off Wentz Rd.	Starts out located behind residential homes and then opens up into a forested wetland.	61	58	119	1371	

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RCH-301	Access from Plackard Place and Creighton Hall Way in Brightleaf	Small tributary in good condition except for newly constructed in-stream pond.	59	70	129	Sub-Optimal	1357
RCH-302	Mainstem east of Brightleaf	Stream adjusted to historic downcutting. Mossy banks, meanders, diabase sill, riffles, and unique native plant (rattlesnake plantain).	40	61	101		1388
RCH-303	Near Brightleaf	Stream adjusted to historic downcutting. Mossy banks, nicest riffle seen in this subwatershed.	55	54	109		644
RCH-304	Downstream of Route 70 - Mineral Springs intersection; Parallel to future Pattersons Mill Rd	Forested wetland and open water present, as stream is impounded with >5 beaver dams. Evidence of forestry on R bank.	68	68	136		944
RCH-305	Mainstem, immediately downstream of Route 70	Stream adjusted to historic downcutting. Mossy banks and forested buffer.	46	66	112		906
RCH-307	Located off Buckhead Ct	Small tributary downstream of breached farm pond.			105		255
RCH-308	Located off Dawson Ct	Stream adjusted to historic downcutting. Downstream of breached farm pond.	50	55	127		745
RCH-309	Parallel to Gilman	Shallow braided channels through forested wetland. Downstream end of reach impacted by sewer easement.	68	59	125		741
RCH-310	Mainstem near Brightwood Trails, parallel to Poplar	Major forested wetland through this section of the Lick Creek mainstem. Left bank impacted by sewer easement.	66	59	118		1832
RCH-331	Tributary Upstream of Kemp Rd, near Triple Crown Farm	Shallow braided channels through forested wetland.	66	76	142		2297
RCH-332	Mainstem Upstream of Kemp Rd	Stream adjusted to historic downcutting but experiencing some current bank erosion. Lots of sediment transported.	44	78	122		1978
RCH-333	Near Triple Crown Farm	Small tributary with mostly forested buffer. Impacted buffer near pastures and backyards. Farm pond. Horses can access stream.	69	73	142		1938
RCH-401	West of Virgil Rd	Forested stream corridor. No wetland at downstream end as shown on NWI.	58	72	130	1591	

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Reach ID	Location	Description	Score			Condition	Length (feet)
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RCH-402	West of Virgil Rd, crosses Power Easement	Forested reach with area of severe erosion caused by power easement	47	63	110	Sub-Optimal	1436
RCH-403	North of Carpenter Pond Rd	Mostly forested reach end in a beaver pond. Adjacent to residential areas.	65	63	128		3027
RCH-404	North of Leesville Rd to Power Easement	Forested reach with isolated headcuts.	59	66	125		1146
RCH-405	North of Leesville Rd to Power Easement	Forested reach with isolated headcuts. Large historic trash pile.	63	66	129		827
RCH-406	West of Virgil Rd	Forested reach with isolated headcuts.	63	66	129		411
<b>RCH-501</b>	West of Copperleaf	Small intermittant stream. Impacted by construction site.	52	50	102		1202
<b>RCH-502</b>	West of Copperleaf	Small stream with defined channel and mossy banks.	62	42	104		411
RCH-503	Downstream of Sherron Rd	Stream flows between fields and through power line easement.	70	70	140		1467
RCH-504	Downstream of Sherron Rd	Stream flows between fields.	57	62	119		2030
RCH-505	Downstream of Chestnut Hill Rd	Intermittant stream with riffles.	64	59	123		1680
RCH-508	Ridgeline Dr north of NC-98 to Ridgeline Dr south of NC-98	Tributary through residential area is bounded by steep slopes. Stream crosses several residential lots with ongoing construction.	64	59	123		2221
RCH-511	Off Power Easement north of Old Creedmor Rd	Parallel to and much less degraded than RCH-510. Bordered by forestry operation.	69	65	134		873
RCH-514	River Dance Dr and Mossy Ridge Ct	High quality stream beginning to see impacts from upstream development.	71	57	128		2064
RCH-515	Downstream of Heartland Dr	Forested, meandering stream	65	64	129		1118
RCH-516	Buck Wallow Rd to power easement	Forested, meandering stream. Sensitive macroinvertebrates found.	56	73	129		3047

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Reach ID	Location	Description	Score			Condition	Length (feet)
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RCH-519	Falls Village Golf Course - Power Easement to past Hole 15	Stream mowed to edge where it crosses Hole 17 fairway. Nick points working their way through old beaver dam pond in forested area.	52	50	102		2649
RCH-101	Parallel to Hwy 70 between Angier Rd and powerline ROW	2nd order stream, mostly forested buffer. Active downcutting, with culverts and biabased sills acting as grade controls. Small impacted buffer (IB100)	17	48	65	Marginal	3610
RCH-103	North of Hwy 70 at Amish Barns	3rd order stream. A lot of flow coming thru channel, actively widening and baseflow <50% bottom width. Just upstream of large beaver wetland complex. Adjacent land has been forested and the buffer on Rt bank impacted (IB102)	30	31	61		1270
RCH-110	North of Eagle Lodge Rd cul-de-sac in BrightLeaf Subdivision	Forested, 2nd order stream (using blue lines). Some sewer ROW crossings and discharge from sediment pond at Brightleaf construction site. There are riffles along this reach, but no caddisfly were found.	45	45	90		1194
RCH-111	North of McCool Ct in Bright Leaf Subdivision	3rd order channel upstream of larger wetland complex. With powerline ROW and forested buffer. Some impacts from adjacent construction evident. NWI showed area to be large wetland complex, but only beginning to see patchy wetland plants and standing water here. Channel still well defined.	30	57	87		1525
RCH-120	Upstream of Olive Branch Rd parallel to Rondelay	Actively eroding 4th order channel upstream from proposed stream restoration site. 7-8 ft banks, impaired buffer along Rt bank where trees were clear cut. Upstream end of reach has erosion (ER120) from large stormwater pond outfall.	17	43	60		1722
RCH-122	Between Olive Branch and Hester Rd	1st order stream that runs behind established low density neighborhood. Patchy buffer, however biggest issue is potential septic and sump drainage pipes. This area to be targeted for discharge investigations and homeowner education.	52	25	77		1636

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Reach ID	Location	Description	Score			Condition	Length (feet)
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RCH-151	Between Bandoock Rd. and construction site	1st order stream behind homes, biggest issues are upstream construction and septic discharges and minor buffer encroachment	47	43	90	Marginal	1628
RCH-152	Between Bandoock Rd. and Olive Branch Rd.	1st order stream, portion is piped. Biggest issue is septic discharges.	48	38	86		1427
RCH-163	Near Leesville and Doc Nichols intersection	2nd order stream will occasional buffer encroachment from logging effort. Steep terrain, some nice outcrops and bugs	47	43	90		1762
RCH-216	Along powerlines off Virgil Rd.	Forested stream, evidence of wildlife. Located near power substation.	36	27	63		700
RCH-225	Located off Wayward Dr.	Intermittent stream flows between residential properties. Buffer is mowed to edge of stream.	51	13	64		266
RCH-306	Downstream of Route 70 and Mineral Springs	Stream impacted by embankments from development, buffer minimal, lots of trash.	50	41	91		1529
RCH-320	Downstream of Route 70 - near Aldridge-Durham Saw & Motor	Shallow braided channels thorough forested wetland. Many invasive vines. Underbrush cleared for off-road RV trail.	59	59	93		280
RCH-330	Sanders Avenue and East	Forested buffer is impacted by fill, trash, and off-road RVs trails.	44	49	93		1436
RCH-335	Off Baptist Road and Southview Rd	Small tributary through pasture and into forested area.	61	38	99		1827
RCH-509	Off Power Easement north of Old Creedmor Rd	Stream begins at a junkyard. Bordered by forestry operation. Reach ends at historic dumping site that acts as grade control.	46	37	83		716
RCH-510	Off Power Easement north of Old Creedmor Rd	Reach with trash begins at the historic dump that acts as grade control. Severe past erosion with some active erosion.	40	38	78	501	
RCH-513	River Dance Dr and Wood Henge Dr	Tributary impacted by road crossings and BMPs installed with new development.	43	51	94	1386	

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RCH-517	Falls Village Golf Course - Driving Range to Hole 10	Stream mowed to edge where it crosses fairways. Actively eroding. Stream piped under Hole 9.	51	29	80		2115
RCH-518	Falls Village Golf Course - Parallel to Hole 18	Reach runs parallel to Hole 18.	45	31	76		1829
RCH-520	Falls Village Golf Course - Power Easement and around Hole 16	Stream runs between golf course and forestry operation.	47	41	88		1455
RCH-521	Falls Village Golf Course	Reach downstream of pond on golf course.	46	48	94		393
RCH-522	Falls Village Golf Course - Hole 12 & 13	Stream mowed to edge where it crosses Hole 12 fairway. Stream piped under Hole 13.	50	36	86		1365
RCH-222	Kingsmill Dairy Farm	Stream is culverted with buffer cleared and no ESC.	22	24	46	Poor	757
RCH-104	Upstream of Hwy70	1st order, braided channel drains farm pond (horses). Nice floodplain connection and forested buffer.	none	none	none	Not Scored	973
RCH-105	Northside of Hwy 70 upstream of Amish Barns	Small, highly turbid stream piped under Amish Barn site. Upstream tracked back up to 5+ acres exposed soil at 4627 Leesville Rd.	none	none	none		1159
RCH-113	Draining Lake Turbid at Brightleaf Subdivision below Prospect Way road crossing.	Small tributary draining into this incised 1st order channel is hammered from active construction. Water sample taken of turbid lake discharge, outfalls into lake discharging excessive amounts of sediment, and headcut is forming along main channel (ER110). Sediment pond at OT114 needs proper maintenance. Mostly buffered, some encroachment along RT bank.	none	none	none		1152
RCH-114	Trib north of confluence at end of Northern Durham Parkway in Brightwoods Trail subdivision	Narrow 1st order stream. Forested buffer	none	none	none		475
RCH-123			none	none	none		547

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RCH-162	Upstream of Olive Branch Rd. crossing, south of Doc Nichols Rd.	Major beaver wetland complex. Biggest issue is buffer encroachment during logging process (both sides of stream). Wetland delineation flagging should be inspected.	none	none	none	Not Scored	3619
RCH-164	Parrallels Olive Branch upstream trib dumping into mainstem at potential stream restoration site	1st order trib that drains wetland area that was logged. Lots of deer carcasses	none	none	none		558
RCH-201			none	none	none		181
RCH-321			none	none	none		677
RCH-322			none	none	none		350
RCH-336			none	none	none		327
RCH-337			none	none	none		523
RCH-338			none	none	none		486
RCH-340	Downstream of Olive Branch Road	Reach planned for stream restoration	none	none	none		1777
RCH-512	Silver Mist Ct and River Dance Dr	Stream with two BMPs and adjacent active construction sites.	none	none	none		752