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| ***1. Project Title*** | Gantt & Hunter Tracts Reforestation Project |

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| ***2a. Primary Contact or Project Manager1*** | | | | | |
| Name | David Thomas | | | | |
| Title | Land Stewardship Specialist | | | | |
| Organization Name | Tar River Land Conservancy | | | | |
| Organization Tax ID Number | 31-1742900 | | | | |
| E-mail address | dthomas@tarriver.org | | | | |
| Mailing Address | P.O. Box 1161 | | | | |
| City | Louisburg | State | NC | Zip | 27549 |
| Telephone | (919) 496-5902 | Fax Number | |  | |

**1****A paragraph or Statement of Qualifications must be provided in Section 4 of the application form to confirm that**

**anyone designing, installing, or monitoring the proposed project is qualified to do so.**

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| 2b. Execution Address (where contract will be mailed for signature) | | | | | |
| Name | Derek Halberg | | | | |
| Title | Executive Director | | | | |
| Organization Name | Tar River Land Conservancy | | | | |
| E-mail Address | dhalberg@tarriver.org | | | | |
| Mailing Address | P.O. Box 1161 | | | | |
| City | Louisburg | State | NC | Zip | 27549 |
| Telephone | (919) 496-5902 | Fax Number | |  | |
| Federal Tax ID Number | 31-1742900 | | | | |

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| 2c. Payment Address (where invoice payments will be mailed) | | | | | |
| Name | Amy Edge | | | | |
| Title | Business Manager | | | | |
| Organization Name | Tar River Land Conservancy | | | | |
| E-mail Address | aedge@tarriver.org | | | | |
| Mailing Address | P.O. Box 1161 | | | | |
| City | Louisburg | State | NC | Zip | 27549 |
| Telephone | (919) 496-5902 | Fax Number | |  | |

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| ***3. Project Description (provide a short summary of the project).*** |
| In consultation with TRLC’s forester Dave Halley, the NC Forest Service and other conservation partners, TRLC will reforest 4.6 acres of former hayfields on the Gantt and Hunter Tracts, a combined 908-acre property acquired by TRLC in two transactions in 2017 and 2019. This project will be a continuation of the ongoing Gantt & Hunter Tracts Reforestation Project, which began in 2019. The reforestation areas are located adjacent to streams and ponds on the property. Portions of the tree planting areas are located within a NCLWF Conservation Easement Area (formerly Clean Water Management Trust Fund – CWMTF). The field areas have been left fallow since TRLC acquired the property but these areas are still dominated by tall fescue grass. TRLC would like to speed the transition of these areas from field to forest by planting a selection of native hardwood and shrub seedlings. Grasses will be mowed and then treated with herbicides prescribed by the NC Forest Service in late summer 2021 to prepare the site for the tree planting. The tree planting will occur in January-March 2022. Twelve tree species and six shrub species will be planted (dependent on seedling availability from Mellow Marsh Nursery). To increase survival rates, tree seedlings will be protected with 4-ft tall translucent tree shelters staked into the ground and shrubs will be protected with a 2-ft tall translucent shrub shelter staked into the ground. Seedlings are expected to be planted over five or six days by TRLC staff, Board members, and community volunteers. Volunteers may also assist in the staging of sites before tree planting events and with the seedling survival checks next growing season. TRLC estimates 250 volunteer service hours will be utilized during these events. Volunteers may include school groups, corporate groups, the Boy Scouts, the Girl Scouts and general TRLC volunteers. The NC Forest Service County Ranger is expected to provide onsite guidance and feedback when management activities are undertaken. |

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| ***4. Statement of qualifications (provide a brief explanation of your organization’s qualifications to complete the project)*** |
| TRLC has undertaken volunteer tree planting events for the past four years. Cumulatively, TRLC has hosted 213 volunteers who have contributed 791.25 hours of volunteer service to plant several thousand hardwood trees and shrubs. These events have been overseen by TRLC staff with technical assistance from the NC Forest Service personnel and local professional foresters. As a result, our volunteer hardwood tree planting events have resulted in seedling survival rates as high as 99% in certain plots. TRLC conducts annual seedling survival checks during the growing season (May-Aug) to measure our success. Dead seedlings and saplings are marked and then replaced during the next planting season to ensure that we maintain the highest survival rates possible. This will lead to quicker canopy closure in the coming years. If all goes as planned, these steps will speed the conversion of these areas from fescue fields to mixed hardwood forest. |
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| ***5. Project Start Date*** | July 1, 2021 | ***Project End Date*** | June 30, 2022 |

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| **6. Project Location: Important to submit as completely as possible, especially the Lat/Long coordinates. Only projects which take place within or primarily impact areas in APNEP’s management boundary will be considered for funding.** | |
| Project Location | Granville County, NC |
| River Basin(s) | Neuse River Basin, Dickens Creek upstream of Lake Holt (drinking water reservoir for southern Granville County) |
| Position coordinates of project location | Latitude 36.202908            Longitude -78.763477 |
| **7. List which CCMP Actions will be addressed and how the proposed activity will address them:** | |
| **Action C1.3: Facilitate the restoration of riparian and estuarine shorelines.**  TRLC will replant, with native vegetation, areas impacted by historic agricultural activities adjacent to flowing streams and ponds. The result will be improved water quality and ecological integrity. The forested buffer along the streams and ponds will increase the infiltration and filtration of runoff from the adjacent agricultural fields. The canopy to be created over time by the reforestation project will also aid in preventing water temperatures from rising too high, which could decrease the dissolved oxygen available to aquatic species.  **Action D2.1: Provide and promote opportunities for outdoor experiences that connect individuals with the Albemarle-Pamlico ecosystem.**  TRLC has been able to host on average 20 volunteers per day for our tree planting events. During these events, volunteers are able to experience the outdoors and to learn about the importance of our riparian ecosystems, increasing their awareness of the ecological and social benefits of protecting and improving the Albemarle-Pamlico ecosystem. Most tree planting events have been followed by a guided nature hike where we are able to show the volunteers the direct benefits that their volunteer service has provided. | |

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| **8. Brief explanation of linkage to APNEP priority areas (1) water quality, (2) submerged aquatic vegetation, (3) coastal habitats, (4) increasing resiliency:** |
| TRLC’s reforestation project will directly benefit water quality and increase resiliency of headwater streams in the APNEP region. Over time, the trees will increase the infiltration and filtration of runoff from the adjoining agricultural fields. The forested buffer will increase the resiliency of aquatic species in the immediate area as well as downstream of the project site by shading surface waters. This will help moderate fluctuations in water temperatures and help maintain adequate levels of dissolved oxygen available for aquatic species. |

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| ***9. List activities that will be used to monitor or indicate the success of the proposed activity/project by listing one or more output and/or outcome metrics that will be measured, documented, and reported after project completion, as well as the expected target for each metric. Please also include a short explanation for how each listed metric assists in measurement of a CCMP Action being implemented by the project. Please see the proposal guidelines RFP*** [***output/outcome example document***](https://apnep.nc.gov/documents/engagement-outputsoutcomes-guidance) ***for details.*** |
| In regards to CCMP Action C1.3, TRLC will conduct a seedling survival check during the 2022 growing season. TRLC expects to see a survival rate of 75% at a minimum. This number is based on conversations with the NCFS and consulting forester for a volunteer-based hardwood tree planting. Fields with survival rates below 75% will require a supplemental tree planting during the following planting season. Fields with survival rates above 75% will be deemed a success.  In regards to CCMP Action D2.1, TRLC will log the number of volunteers who participate during the tree planting event. TRLC has advertised our tree planting events online using social media, in print using local newspapers and through emails with our volunteer list. Tree planting events have seen participation numbers ranging from 10 people per day up to 70 people per day (highly dependent upon weather conditions) and have included international volunteers residing in our area. Our current average is 20 people per day. Our measure of success will be to have, at a minimum, 60 volunteers who are able to plant all of the trees by the end of the tree planting event. This will ensure that TRLC is able to maintain our current level of engagement providing volunteers with education and outdoor experience in the Albemarle-Pamlico ecosystem. |

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| 10. Description of funds (Combined APNEP and leveraged funds. | | | | |
| Description of Service | APNEP | Contract Applicant  (Cash, In-Kind, Other)  (e.g. In-kind - staff assistance 5hrs/wk\*$13/hr\*10wks=$650) | Other Contributions  (Organization, Cash, In-Kind, Other)  (e.g. NC DMF - In-kind – staff assistance 5hrs/wk\*$13/hr\*10wks=$650) | Total |
| Personnel/Salary | $2,000 |  | $6,250 (in-kind volunteer time)  (250 hrs × $25/hr) | $8,250 |
| Fringe Benefits | $450 |  |  | $450 |
| Project Supplies | $3,300 |  | $3,750 – NCLWF  $3,750 – Upper Neuse Clean Water Initiative (UNCWI) | $10,800 |
| Equipment |  |  | $400 – NC LWF  $400 - UNCWI | $800 |
| Transportation/Travel | $1,000 |  |  | $1,000 |
| Sub-contract Services | $750 |  | $850 – NC LWF  $850 - UNCWI | $2,450 |
| Other Direct Costs |  |  |  |  |
| Total Direct Cost | $7,500 |  | $16,250 | $23,750 |
| \*Indirect Cost (F&A) (not to exceed 10%)  (e.g. 10% of the total direct costs $10,000 = $1,000) | $750 |  |  | $750 |
| Total Cost | $8,250 |  | $16,250 | $24,500 |

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| ***11. Describe leveraging of funds from project partners (Optional):*** |
| TRLC applied for funding from the NC Land and Water Fund (NCLWF) and the Upper Neuse Clean Water Initiative (UNCWI) for matching funds. As listed in the above chart, TRLC expects to receive $10,000 collectively from NCLWF and UNCWI. At this time, TRLC has been awarded the $5,000 in grants from NCLWF. Approval from UNCWI is expected in the coming weeks. Both NCLWF and UNCWI has supported previous phases of the Gantt & Hunter Reforestation Project.  \*Check with Heather Jennings for more information at 919-707-8632 |

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| 12. Project Partners (may add more if needed) | | | | |
| Agency Name | NC Land & Water Fund | | | |
| Agency Address | 121 W. Jones Street, Raleigh, NC 27699 | | | |
| Role/contribution to Project | project funder | | | |
| Contact Person | Marissa Hartzler, Stewardship Manager | Phone No. | 919-707-9131 |
| E-mail address | marissa.hartzler@ncdcr.gov | | | |
| Agency Name | Triangle J Council of Governments | | | |
| Agency Address | 4307 Emperor Blvd., Suite 110, Durham, NC 27703 | | | |
| Role/contribution to Project | project funder (as administrator of the Upper Neuse Clean Water Initiative) | | | |
| Contact Person | Emily Barrett | Phone No. | 919-538-0001 |
| E-mail address | ebarrett@tjcog.org | | | |

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| ***13. Project Milestone Schedule*** |

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| **Time Period / Date** | **Activities (List specific outputs or activities that will be achieved during each quarter.)** |
| First Quarter  (Jul-Sep 2021) | Site prep mowing and herbicide application at the end of the 2021 growing season; seedlings ordered (to be held by nursery until picked up for event) |
| Second Quarter  (Oct-Dec 2021) | Tree shelters and stakes ordered; tentative tree planting event schedule announced; volunteers recruited for tree planting events via social media, emails, and local media outlets |
| Third Quarter  (Jan-Mar 2022) | Site prep augering of planting holes; tree planting events held (with dates being weather dependent); additional recruiting of volunteers; news and pics of events published via press release and social media postings |
| Fourth Quarter  (Apr-Jun 2022) | Seedling survival check during the 2022 growing season; Final project report to APNEP following the seedling survival check |

**Note: All projects must submit a detailed Final Project Report that is due by the end of the contract for APNEP review and approval. Supplemental information should include (when relevant) a file containing data collected during the project, GIS Data, brochures, outreach tools, photographs or videos taken during the project, and a summary of survey results.**

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| ***14. References and Literature Cited (if applicable)*** |
| Examples of posts and articles about TRLC’s previous tree planting events may be viewed here:  <http://www.tarriver.org/register-to-plant-trees-with-trlc-in-january-2021/>  <http://www.tarriver.org/tree-planting-feb2018/>  Collections of photos of TRLC’s past tree planting events showing volunteers may be viewed here:  <https://www.flickr.com/photos/tarriverlandconservancy/albums/72157712861726348>  <https://www.flickr.com/photos/tarriverlandconservancy/albums/72157704007117732>  <https://www.flickr.com/photos/tarriverlandconservancy/albums/72157692724669324> |

