



STATE OF NORTH CAROLINA
DEPARTMENT OF ADMINISTRATION

ROY COOPER
GOVERNOR

PAMELA B. CASHWELL
SECRETARY

October 21, 2021

Kimberley Campbell
North Carolina Department of Commerce
Utilities Commission
4325 Mail Service Center
Raleigh, North Carolina 27699-4325

Re: SCH File # 22-E-4600-0063 Application of Macadamia Solar, LLC for Certificate to construct six and one half miles of 230-kV transmission line in Washington County. Docket #EMP-119 Sub 1. View document at <http://starw1.ncuc.net/NCUC/portal/ncuc/page/Dockets/portal.aspx>, Type EMP-119 Sub 1 in the Docket Number search line.

Dear Ms. Campbell:

The above referenced environmental information has been reviewed through the State Clearinghouse under the provisions of the North Carolina Environmental Policy Act.

Attached to this letter are comments made in the review of this document. The Department of Cultural Resources has requested additional information prior to their concurrence with the above referenced document.

Therefore, pursuant to 1 NCAC 25 .0506(c), this office requests that a supplemental document providing the additional information requested by the Department of Cultural Resources be submitted to the Clearinghouse for further review and comment.

Sincerely,

A handwritten signature in cursive script that reads "Crystal Best".

Crystal Best
State Environmental Review Clearinghouse

Attachments

Mailing Address:
NC DEPARTMENT OF ADMINISTRATION
1301 MAIL SERVICE CENTER
RALEIGH, NC 27699-1301

Telephone: (919) 807-2425
Fax: (919) 733-9571
COURIER #51-01-00
Email: state.clearinghouse@doa.nc.gov
Website: www.ncadmin.nc.gov

Location:
116 WEST JONES STREET
RALEIGH, NORTH CAROLINA

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Oct 21 2021

Control No.: 22-E-4600-0063
County.: WASHINGTON

Date Received: 9/16/2021
Agency Response: 10/18/2021
Review Closed: 10/18/2021

LYN HARDISON
CLEARINGHOUSE COORDINATOR
DEPT OF ENVIRONMENTAL QUALITY

Project Information

Type: State Environmental Policy Act ironmental Review
Applicant: North Carolina Department of Commerce
Project Desc.: Application of Macadamia Solar, LLC for Certificate to construct six and one half miles of 230-kV transmission line in Washington County. Docket #EMP-119 Sub 1. View document at <http://starw1.ncuc.net/NCUC/portal/ncuc/page/Dockets/portal.aspx>, Type EMP-119 Sub 1 in the Docket Number search line.

Located 0.25 miles northeast of the intersection of Highway 32 and Highway 45 and run approximately six and a half miles northwest, crossing Highway 32 and 64, to interconnect to the western side of the existing Trowbridge Substation.

As a result of this review the following is submitted:

No Comment Comments Below Documents Attached

Reviewed By: LYN HARDISON

Date: 10/15/2021



NORTH CAROLINA
Environmental Quality

ROY COOPER
Governor

ELIZABETH S. BISER
Secretary

To: Crystal Best
State Clearinghouse
NC Department of Administration

From: Lyn Hardison
Division of Environmental Assistance and Customer Service
Washington Regional Office

RE: 22-0063
Environmental Review - Application of Macadamia Solar,
LLC for Certificate to construct six- and one-half miles of
230-kV transmission line, Docket #EMP-119 Sub 1.
Washington County

Date: October 15, 2021

The Department of Environment Quality has reviewed the proposal for the referenced project. Based on the information provided, one (1) contamination site was identified within one mile of the project site. In addition, several of our agencies have identified permits that may be required and offered some valuable guidance to help minimize impacts to natural, aquatic, and terrestrial wildlife resources in and around the project area. The comments are attached for the applicant's review.

The Department will continue to be available to assist the applicant with any question or concerns.

Thank you for the opportunity to respond.

Attachments



North Carolina Department of Environmental Quality
217 West Jones Street | 1601 Mail Service Center | Raleigh, North Carolina 27699-1601
919.707.8600

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Oct 21 2021



⊠ North Carolina Wildlife Resources Commission ⊠

Cameron Ingram, Executive Director

MEMORANDUM

TO: Lyn Hardison, Environmental Assistance Coordinator
NCDEQ Division of Environmental Assistance and Outreach (DEAO)

FROM: Maria T. Dunn, Coastal Habitat Coordinator
Habitat Conservation Division

DATE: October 14, 2021

SUBJECT: Macadamia Solar, LLC – Six- and One-Half Miles of 230 kV Transmission Line, Docket #EMP-119 Sub 1, Washington, County, North Carolina.
OLIA No. 22-0063

Biologists with the North Carolina Wildlife Resources Commission (NCWRC) have reviewed the subject document and we are familiar with the habitat values of the area. Our comments are provided in accordance with provisions of the Coastal Area Management Act (G.S. 113A-100 through 113A-128), as amended, Sections 401 and 404 of the Clean Water Act, as amended, the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 et seq.), the Fish and Wildlife Coordination Act (48 Stat. 401, as amended; 16 U.S.C. 661 et seq.), the Magnuson-Stevens Fishery Conservation and Management Act (FCMA), as amended (16 U.S.C. 1801 et seq.), and the Migratory Bird Treaty Act (16 U.S.C. 703-712 et seq.) and North Carolina Environmental Policy Act (G.S. 113A-1 through 113A-10; 1 NCAC 25).

The applicant proposes to construct 6.5 miles of 230 kV transmission line, located 0.25 mile northesast the intersection of NC Hwy 32 and NC Hwy 45. This line will interconnect to the western side of the existing Trowbridge Substation.

The NCWRC recommends the following statements be observed:

1. Include descriptions of fish and wildlife resources within the project area, and a listing of federally or state designated threatened, endangered, or special concern species. A listing of designated species can be developed by consulting information from:

The Natural Heritage Program

www.ncnhp.org

2. Include descriptions and acres of any streams or wetlands affected by the project. This includes a listing of any stream or wetland areas and the area of impact.
3. Include project maps identifying wetland areas. Identification of wetlands may be accomplished through coordination with the U.S. Army Corps of Engineers (USACE). If the USACE is not consulted, the person delineating wetlands should be identified and their credentials listed.
4. Avoid or minimize impacts to wetlands during project siting and construction. In addition to providing wildlife habitat, wetland areas perform important functions of flood control and water quality protection. US Army Corps of Engineers Section 404 permits and N.C. Division of Water Resources Section 401 Certifications are required for any impacts to jurisdictional streams or wetlands. Temporarily disturbed wetland areas should be returned to original soils and contours, and reseeded with annual small grains appropriate for the season (e.g. oats, millet, rye, wheat, or rye grass) and should be allowed to revert to natural wetland vegetation.
5. Utility easement widths are stated to be 100'. It is requested that if the easement crosses wetlands or other jurisdictional water bodies that the maintained easement area is reduced to the greatest width possible to minimize impacts to wetlands. While maintenance activities within the easement may not be wetland fill or sediment disturbance, vegetation alteration and conversion is an impact that should be addressed.
6. Maintain or establish a minimum 100-foot native forested buffer along each side of perennial streams and 50-foot native forested buffer along each side of intermittent streams and wetlands.
7. Measures to minimize impacts to birds should be implemented. These can include increasing line visibility, insulating wires to cover exposed connections, and increasing the distance between wires so no contact with ground or other energized wire can be made. For this site, bird diverters are recommended. For more information see <http://www.fws.gov/birds/documents/powerlines.pdf>.
8. Trenches left open during project construction can trap or injure wildlife. We recommend closing trenches at the end of each day or conduct sweeps of trenches to clear wildlife at least once in the morning prior to construction.
9. Avoid using Bermudagrass, redtop, tall fescue, and lespedeza, which are invasive and/or nonnative and provide little benefit to wildlife. Consider using native seed mixtures that are beneficial to wildlife to revegetate upland disturbed areas. Specifically, this project would be ideal for planting native, wildflower seed mixes that will create pollinator habitat within the project boundary. Pollinators are some insects (i.e., bees, moths, and butterflies) and birds that play an important role in the reproduction of flowering plants, which produce many fruits and vegetables. Habitat loss, disease, and other environmental changes have caused a decline in pollinators. Consider establishing vegetative cover on the site that is beneficial to wildlife. Plantings should include native warm season grasses and/or wildflower seed mixes to create pollinator habitat within the project boundary. Shade-tolerant plants that are grow between 12 to 18 inches can be selected for planting both underneath and around solar panels. Further information and free technical guidance from the NCWRC is available upon request.
10. Pesticides, fertilizers, and other chemicals should not be used near wetlands or streams.
11. Avoid the removal of large trees or snags at the edges of construction corridors. Due to the

decline in bat populations, tree clearing activities should be avoided during the maternity roosting season for bats (May 15 – August 15).

12. Minimize ROW maintenance and prohibit mowing between April 1 and October 1 to minimize impacts to ground-nesting birds. We suggest a maintenance schedule that incorporates a portion of the area (e.g., one-third of the area) each year.
13. Sediment and erosion control measures should be installed prior to any land-disturbing activity.
14. Sediment and erosion control measures should be installed prior to any land clearing or construction. The use of **biodegradable and wildlife-friendly sediment and erosion control devices** is strongly recommended. Silt fencing, fiber rolls and/or other products should have loose-weave netting that is made of natural fiber materials with movable joints between the vertical and horizontal twines. Silt fencing or similar materials that have been reinforced with plastic or metal mesh should be avoided as they impede the movement of terrestrial wildlife species. All sediment and erosion control measures should be routinely inspected and properly maintained. Excessive silt and sediment loads can have numerous detrimental effects on aquatic resources including destruction of spawning habitat, suffocation of eggs, and clogging of gills of aquatic species.
15. Measures to mitigate secondary and cumulative impacts can be found in NCWRC's *Guidance Memorandum to Address and Mitigate Secondary and Cumulative Impacts to Aquatic and Terrestrial Wildlife Resources and Water Quality* (August 2002; http://www.ncwildlife.org/Portals/0/Conserving/documents/2002_GuidanceMemorandumforSecondaryandCumulativeImpacts.pdf).

Thank you for the opportunity to comment on this project. If our agency can be of further assistance, please contact me at (252) 948-3916 or at maria.dunn@ncwildlife.org.

State of North Carolina Department of Environmental Quality
 INTERGOVERNMENTAL REVIEW PROJECT COMMENTS

Reviewing Regional Office: Washington
 Project Number: 22-0063 Due Date: 10/14/2021
 County: Washington

After review of this project it has been determined that the DEQ permit(s) and/or approvals indicated may need to be obtained in order for this project to comply with North Carolina Law. Questions regarding these permits should be addressed to the Regional Office indicated on the reverse of the form. All applications, information and guidelines relative to these plans and permits are available from the same Regional Office.

	PERMITS	SPECIAL APPLICATION PROCEDURES or REQUIREMENTS	Normal Process Time (statutory time limit)
<input type="checkbox"/>	Permit to construct & operate wastewater treatment facilities, non-standard sewer system extensions & sewer systems that do not discharge into state surface waters.	Application 90 days before begins construction or award of construction contracts. On-site inspection may be required. Post-application technical conference usual.	30 days (90 days)
<input type="checkbox"/>	Permit to construct & operate, sewer extensions involving gravity sewers, pump stations and force mains discharging into a sewer collection system	Fast-Track Permitting program consists of the submittal of an application and an engineer's certification that the project meets all applicable State rules and Division Minimum Design Criteria.	30 days (N/A)
<input type="checkbox"/>	NPDES - permit to discharge into surface water and/or permit to operate and construct wastewater facilities discharging into state surface waters.	Application 180 days before begins activity. On-site inspection. Pre-application conference usual. Additionally, obtain permit to construct wastewater treatment facility-granted after NPDES. Reply time, 30 days after receipt of plans or issue of NPDES permit-whichever is later.	90-120 days (N/A)
<input type="checkbox"/>	Water Use Permit	Pre-application technical conference usually necessary.	30 days (N/A)
<input type="checkbox"/>	Well Construction Permit	Complete application must be received and permit issued prior to the installation of a groundwater monitoring well located on property not owned by the applicant, and for a large capacity (>100,000 gallons per day) water supply well.	7 days (15 days)
<input type="checkbox"/>	Dredge and Fill Permit	Application copy must be served on each adjacent riparian property owner. On-site inspection. Pre-application conference usual. Filling may require Easement to Fill from N.C. Department of Administration and Federal Dredge and Fill Permit.	55 days (90 days)
<input type="checkbox"/>	Permit to construct & operate Air Pollution Abatement facilities and/or Emission Sources as per 15 A NCAC (2Q.0100 thru 2Q.0300)	Application must be submitted and permit received prior to construction and operation of the source. If a permit is required in an area without local zoning, then there are additional requirements and timelines (2Q.0113).	90 days
<input checked="" type="checkbox"/>	Any open burning associated with subject proposal must be in compliance with 15 A NCAC 2D.1900	N/A	60 days (90 days)
<input checked="" type="checkbox"/>	Demolition or renovations of structures containing asbestos material must be in compliance with 15 A NCAC 20.1110 (a) (1) which requires notification and removal prior to demolition. Contact Asbestos Control Group 919-707-5950	Please Note - The Health Hazards Control Unit (HHCU) of the N.C. Department of Health and Human Services, must be notified of plans to demolish a building, including residences for commercial or industrial expansion, even if no asbestos is present in the building.	60 days (90 days)
<input checked="" type="checkbox"/>	The Sedimentation Pollution Control Act of 1973 must be properly addressed for any land disturbing activity. An erosion & sedimentation control plan will be required if one or more acres are to be disturbed. Plan must be filed with and approved by applicable Regional Office (Land Quality Section) at least 30 days before beginning activity. A NPDES Construction Stormwater permit (NCG010000) is also usually issued should design features meet minimum requirements. A fee of \$65 for the first acre or any part of an acre. An express review option is available with additional fees.		20 days (30 days)
<input type="checkbox"/>	Sedimentation and erosion control must be addressed in accordance with NCDOT's approved program. Particular attention should be given to design and installation of appropriate perimeter sediment trapping devices as well as stable Stormwater conveyances and outlets.		(30 days)
<input type="checkbox"/>	Sedimentation and erosion control must be addressed in accordance with _____ Local Government's approved program. Particular attention should be given to design and installation of appropriate perimeter sediment trapping devices as well as stable Stormwater conveyances and outlets.		Based on Local Program
<input type="checkbox"/>	Compliance with 15A NCAC 2H .0126 - NPDES Stormwater Program which regulates three types of activities: Industrial, Municipal Separate Storm Sewer System & Construction activities that disturb ≥1 acre.		30-60 days (90 days)
<input checked="" type="checkbox"/>	Compliance with 15A NCAC 2H 1000 -State Stormwater Permitting Programs regulate site development and post-construction stormwater runoff control. Areas subject to these permit programs include all 20 coastal counties, and various other counties and watersheds throughout the state.		45 days (90 days)

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State of North Carolina Department of Environmental Quality
 INTERGOVERNMENTAL REVIEW PROJECT COMMENTS

Reviewing Regional Office: Washington
 Project Number: 22-0063 Due Date: 10/14/2021
 County: Washington

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	PERMITS	SPECIAL APPLICATION PROCEDURES or REQUIREMENTS	Normal Process Time (statutory time limit)
<input type="checkbox"/>	Mining Permit	On-site inspection usual. Surety bond filed with DEQ Bond amount varies with type mine and number of acres of affected land. Affected area greater than one acre must be permitted. The appropriate bond must be received before the permit can be issued.	30 days (60 days)
<input type="checkbox"/>	Dam Safety Permit	If permit required, application 60 days before begin construction. Applicant must hire N.C. qualified engineer to: prepare plans, inspect construction, and certify construction is according to DEQ approved plans. May also require a permit under mosquito control program. And a 404 permit from Corps of Engineers. An inspection of site is necessary to verify Hazard Classification. A minimum fee of \$200.00 must accompany the application. An additional processing fee based on a percentage or the total project cost will be required upon completion.	30 days (60 days)
<input type="checkbox"/>	Oil Refining Facilities	N/A	90-120 days (N/A)
<input type="checkbox"/>	Permit to drill exploratory oil or gas well	File surety bond of \$5,000 with DEQ running to State of NC conditional that any well opened by drill operator shall, upon abandonment, be plugged according to DEQ rules and regulations.	10 days N/A
<input type="checkbox"/>	Geophysical Exploration Permit	Application filed with DEQ at least 10 days prior to issue of permit. Application by letter. No standard application form.	10 days N/A
<input type="checkbox"/>	State Lakes Construction Permit	Application fee based on structure size is charged. Must include descriptions & drawings of structure & proof of ownership of riparian property	15-20 days N/A
<input checked="" type="checkbox"/>	401 Water Quality Certification	Compliance with the T15A 02H .0500 Certifications are required whenever construction or operation of facilities will result in a discharge into navigable water as described in 33 CFR part 323.	60 days (130 days)
<input checked="" type="checkbox"/>	Compliance with Catawba, Goose Creek, Jordan Lake, Randleman, Tar Pamlico or Neuse Riparian Buffer Rules is required. Buffer requirements: http://deq.nc.gov/about/divisions/water-resources/water-resources-permits/wastewater-branch/401-wetlands-buffer-permits/401-riparian-buffer-protection-program		
<input type="checkbox"/>	Nutrient Offset: Loading requirements for nitrogen and phosphorus in the Neuse and Tar-Pamlico River basins, and in the Jordan and Falls Lake watersheds, as part of the nutrient-management strategies in these areas. DWR nutrient offset information: http://deq.nc.gov/about/divisions/water-resources/planning/nonpoint-source-management/nutrient-offset-information		
<input type="checkbox"/>	CAMA Permit for MAJOR development	\$250.00 - \$475.00 fee must accompany application	75 days (150 days)
<input type="checkbox"/>	CAMA Permit for MINOR development	\$100.00 fee must accompany application	22 days (25 days)
<input type="checkbox"/>	Abandonment of any wells, if required must be in accordance with Title 15A. Subchapter 2C.0100.		
<input type="checkbox"/>	Notification of the proper regional office is requested if "orphan" underground storage tanks (USTS) are discovered during any excavation operation.		
<input type="checkbox"/>	Plans and specifications for the construction, expansion, or alteration of a public water system must be approved by the Division of Water Resources/Public Water Supply Section prior to the award of a contract or the initiation of construction as per 15A NCAC 18C .0300 et. seq., Plans and specifications should be submitted to 1634 Mail Service Center, Raleigh, North Carolina 27699-1634. All public water supply systems must comply with state and federal drinking water monitoring requirements. For more information, contact the Public Water Supply Section, (919) 707-9100.		30 days
<input type="checkbox"/>	If existing water lines will be relocated during the construction, plans for the water line relocation must be submitted to the Division of Water Resources/Public Water Supply Section at 1634 Mail Service Center, Raleigh, North Carolina 27699-1634. For more information, contact the Public Water Supply Section, (919) 707-9100.		30 days
<input type="checkbox"/>	Plans and specifications for the construction, expansion, or alteration of the _____ water system must be approved through the _____ delegated plan approval authority. Please contact them at _____ for further information.		

State of North Carolina Department of Environmental Quality
 INTERGOVERNMENTAL REVIEW PROJECT COMMENTS

Reviewing Regional Office: Washington
 Project Number: 22-0063 Due Date: 10/14/2021
 County: Washington

Other Comments (attach additional pages as necessary, being certain to comment authority)

Division	Initials	No comment	Comments	Date Review
DAQ	FDB	<input checked="" type="checkbox"/>	No Comments	9/20/2021
DWR-WQROS (Aquifer & Surface)	&	<input type="checkbox"/>	& delineation of any wetlands/waters/buffers will be required prior to application for impacts.	9/29/2021
DWR-PWS		<input type="checkbox"/>		/ /
DEMLR (LQ & SW)	SD	<input type="checkbox"/>	E&SC and SW required	9/29/2021
DWM – UST	SNH	<input type="checkbox"/>	See attached comments	10/13/2021
Other Comments		<input type="checkbox"/>		/ /

REGIONAL OFFICES

Questions regarding these permits should be addressed to the Regional Office marked below.

- | | | |
|---|--|--|
| <input type="checkbox"/> Asheville Regional Office
2090 U.S. 70 Highway
Swannanoa, NC 28778-8211
Phone: 828-296-4500
Fax: 828-299-7043 | <input type="checkbox"/> Fayetteville Regional Office
225 Green Street, Suite 714,
Fayetteville, NC 28301-5043
Phone: 910-433-3300
Fax: 910-486-0707 | <input type="checkbox"/> Mooreville Regional Office
610 East Center Avenue, Suite 301,
Mooreville, NC 28115
Phone: 704-663-1699
Fax: 704-663-6040 |
| <input type="checkbox"/> Raleigh Regional Office
3800 Barrett Drive,
Raleigh, NC 27609
Phone: 919-791-4200
Fax: 919-571-4718 | <input checked="" type="checkbox"/> Washington Regional Office
943 Washington Square Mall,
Washington, NC 27889
Phone: 252-946-6481
Fax: 252-975-3716 | <input type="checkbox"/> Wilmington Regional Office
127 Cardinal Drive Ext.,
Wilmington, NC 28405
Phone: 910-796-7215
Fax: 910-350-2004 |
| | <input type="checkbox"/> Winston-Salem Regional Office
450 Hanes Mill Road, Suite 300,
Winston-Salem, NC 27105
Phone: 336-776-9800
Fax: 336-776-9797 | |

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ROY COOPER

Governor

ELIZABETH S. BISER

Secretary

MICHAEL SCOTT

Director



TO: Lyn Hardison, Environmental Coordinator

FROM: Sylvia Newsom-Hunneke, Regional UST Supervisor

COPY: Scott Bullock, Corrective Action Branch Head

COPY: Sharon Brinkley, Administrative Secretary

DATE: October 13, 2021

RE: Environmental Review – Project Number 22-0063– Application of Macadamia Solar, LLC for Certificate to construct six and one half miles of 230-kV transmission line in Washington County.

I searched the Petroleum Underground Storage Tank (UST) and Non-UST Databases and review of those databases did not indicate any petroleum releases within the proposed project area. I reviewed the above proposal and determined that this project should not have any adverse impact upon groundwater. The following comments are pertinent to my review:

1. The Washington Regional Office (WaRO) UST Section recommends removal of any abandoned or out-of-use petroleum USTs or petroleum above ground storage tanks (ASTs) within the project area. The UST Section should be contacted regarding use of any proposed or on-site petroleum USTs or ASTs. We may be reached at (252) 946-6481.
2. Any petroleum USTs or ASTs must be installed and maintained in accordance with applicable local, state, and federal regulations. For additional information on petroleum ASTs, it is advisable that the North Carolina Department of Insurance at (919) 661-5880 ext. 239, USEPA (404) 562-8761, local fire department, and Local Building Inspectors be contacted.
3. Any petroleum spills must be contained, and the area of impact must be properly restored. Petroleum spills of significant quantity must be reported to the North Carolina Department of Environmental Quality – Division of Waste Management Underground Storage Tank Section in the Washington Regional Office at (252) 946-6481
4. Any soils excavated during demolition or construction that show evidence of petroleum contamination, such as stained soil, odors, or free product must be reported immediately to the local Fire Marshall to determine whether explosive or inhalation hazards exist. Also, notify the UST Section of the Washington Regional Office at (252) 946-6481. Petroleum contaminated soils must be handled in accordance with all applicable regulations.
5. Any questions or concerns regarding spills from petroleum USTs, ASTs, or vehicles should be directed to the UST Section at (252) 946-6481.



Department of Environmental Quality Project Review Form

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Oct 21 2021

Project Number: 22-0063

County: Washington

Date Received: 9-16-2021

Due Date: 10-14-2021

Project Description: *Environmental Review - Application of Macadamia Solar, LLC for Certificate to construct six and one half miles of 230-kV transmission line in Washington County. Docket #EMP-119 Sub 1. View document at <https://starw1.ncuc.net/NCUC/page/Dockets/portal.aspx>, Type EMP-119 Sub 1 in the Docket Number search line.*

Located 0.25 miles northeast of the intersection of Highway 32 and Highway 45 and run approximately six and a half miles northwest, crossing Highway 32 and 64, to interconnect to the western side of the existing Trowbridge Substation.

This Project is being reviewed as indicated below:

Regional Office	Regional Office Area	In-House Review	
<input type="checkbox"/> Asheville	<input checked="" type="checkbox"/> Air	<input type="checkbox"/> Air Quality	<input checked="" type="checkbox"/> Coastal Management
<input type="checkbox"/> Fayetteville	<input checked="" type="checkbox"/> DWR	<input type="checkbox"/> Parks & Recreation	<input checked="" type="checkbox"/> Marine Fisheries
<input type="checkbox"/> Mooresville	<input checked="" type="checkbox"/> DWR - Public Water	<input checked="" type="checkbox"/> Waste Mgmt	<input type="checkbox"/> Military Affairs
<input type="checkbox"/> Raleigh	<input checked="" type="checkbox"/> DEMLR (LQ & SW)	<input type="checkbox"/> Water Resources Mgmt (Public Water, Planning & Water Quality Program)	<input type="checkbox"/> DMF-Shellfish Sanitation
<input checked="" type="checkbox"/> Washington	<input checked="" type="checkbox"/> DWM	<input type="checkbox"/> DWR-Transportation Unit	<input checked="" type="checkbox"/> Wildlife <u>Maria</u>
<input type="checkbox"/> Wilmington			<input type="checkbox"/> Wildlife/DOT
<input type="checkbox"/> Winston-Salem			

Manager Sign-Off/Region:	Date: 10-4-2021	In-House Reviewer/Agency: Gregg Bodnar, Coastal Management
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Response (check all applicable)

No objection to project as proposed.
 No Comment
 Other (specify or attach comments)

Insufficient information to complete review

Authorization may be required depending on the location of the project in relation to our Area of Environmental Concerns (AEC). For this determination please contact Ashley Grandy, WaRO DCM staff, at 252-948-3854, to determine if a permit is required and if so what application process is appropriate.

Lyn Hardison at lyn.hardison@ncdenr.gov or (252) 948-3842
943 Washington Square Mall Washington NC 27889
Courier No. 16-04-01

Department of Environmental Quality Project Review Form

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Oct 21 2021

Project Number: 22-0063

County: Washington

Date Received: 9-16-2021

Due Date: 10-14-2021

Project Description: *Environmental Review - Application of Macadamia Solar, LLC for Certificate to construct six and one half miles of 230-kV transmission line in Washington County. Docket #EMP-119 Sub 1. View document at <https://starw1.ncuc.net/NCUC/page/Dockets/portal.aspx>, Type EMP-119 Sub 1 in the Docket Number search line.*

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This Project is being reviewed as indicated below:

Regional Office	Regional Office Area	In-House Review
<input type="checkbox"/> Asheville	<input checked="" type="checkbox"/> Air	<input type="checkbox"/> Air Quality <input checked="" type="checkbox"/> Coastal Management
<input type="checkbox"/> Fayetteville	<input checked="" type="checkbox"/> DWR	<input type="checkbox"/> Parks & Recreation <input checked="" type="checkbox"/> Marine Fisheries
<input type="checkbox"/> Mooresville	<input checked="" type="checkbox"/> DWR - Public Water	<input checked="" type="checkbox"/> Waste Mgmt <input type="checkbox"/> Military Affairs
<input type="checkbox"/> Raleigh	<input checked="" type="checkbox"/> DEMLR (LQ & SW)	<input type="checkbox"/> Water Resources Mgmt (Public Water, Planning & Water Quality Program) <input type="checkbox"/> DMF-Shellfish Sanitation
<input checked="" type="checkbox"/> Washington	<input checked="" type="checkbox"/> DWM	<input type="checkbox"/> DWR-Transportation Unit <input checked="" type="checkbox"/> Wildlife <u>Maria</u>
<input type="checkbox"/> Wilmington		<input type="checkbox"/> Wildlife/DOT
<input type="checkbox"/> Winston-Salem		

Manager Sign-Off/Region:	Date: 30 September 2021	In-House Reviewer/Agency: James Harrison - NCDMF
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Response (check all applicable)

No objection to project as proposed. No Comment

Insufficient information to complete review Other (specify or attach comments)

If receiving public funding, ensure any mitigation requirements are met, specifically for impacts to wetlands. JAH-NCDMF 9-30-2021

If you have any questions, please contact:
Lyn Hardison at lyn.hardison@ncdenr.gov or (252) 948-3842
943 Washington Square Mall Washington NC 27889
Courier No. 16-04-01



NORTH CAROLINA
Environmental Quality

ROY COOPER

Governor

ELIZABETH S. BISER

Secretary

MICHAEL SCOTT

Director

MEMORANDUM

TO: Michael Scott, Division Director through Sharon Brinkley

FROM: Drew Hammonds, Eastern District Supervisor - Solid Waste Section

DATE: October 14, 2021

SUBJECT: Review: SW 22-0063 – Washington County (ER – NC Department of Commerce – Application of Macadamia Solar, LLC for Certificate to construct six and one half miles of 230-kV transmission line in Washington County)

The Division of Waste Management, Solid Waste Section (Section) has reviewed the documents submitted for the subject project in Washington County, NC. Based on the information provided in these documents, the Section at this time does not see an adverse impact on the surrounding communities and likewise knows of no situations in the communities, which would affect this project.

As always for any planned or proposed projects, it is recommended that during any land clearing, demolition, and construction, Macadamia Solar LLC and/or its contractors would make every feasible effort to minimize the generation of waste, to recycle materials for which viable markets exist, and to use recycled products and materials in the development of this project where suitable. **Any waste generated by and of the projects that cannot be beneficially reused or recycled must be disposed of at a solid waste management facility permitted by the Division. The Section strongly recommends that Macadamia Solar LLC require all contractors to provide proof of proper disposal for all generated waste to permitted facilities.**

Permitted solid waste management facilities are listed on the Division of Waste Management, Solid Waste Section portal site at: <https://deq.nc.gov/about/divisions/waste-management/waste-management-rules-data/solid-waste-management-annual-reports/solid-waste-permitted-facility-list>

Questions regarding solid waste management for this project should be directed to Mr. Ray Williams, Environmental Senior Specialist, Solid Waste Section, at (252) 948-3955.

cc: Ray Williams, Environmental Senior Specialist



North Carolina Department of Environmental Quality | Division of Waste Management
Fayetteville Regional Office | 225 Green Street, Suite 714 | Fayetteville, North Carolina 28301
910.433.3300

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Oct 21 2021



NORTH CAROLINA
Environmental Quality

ROY COOPER
Governor
ELIZABETH S. BISER
Secretary
MICHAEL SCOTT
Director

OFFICIAL COPY

Oct 21 2021

Date: October 5, 2021

To: Michael Scott, Director
Division of Waste Management

Through: Janet Macdonald
Inactive Hazardous Sites Branch – Special Projects Unit

From: Bonnie S. Ware
Inactive Hazardous Sites Branch

Subject: SEPA Project # 22-0063, North Carolina Department of Commerce, Washington County, North Carolina

The Superfund Section has reviewed the proximity of sites under its jurisdiction to the North Carolina Department of Commerce project. Proposed project is for Environmental Review - Application of Macadamia Solar, LLC for Certificate to construct six and one half miles of 230-kV transmission line in Washington County. Located 0.25 miles northeast of the intersection of Highway 32 and Highway 45 and run approximately six and a half miles northwest, crossing Highway 32 and 64, to interconnect to the western side of the existing Trowbridge Substation.

One (1) Superfund Section site was identified within one mile of the project as shown on the attached report. The Superfund Section recommends that site files be reviewed to ensure that appropriate precautions are incorporated into any construction activities that encounter potentially contaminated soil or groundwater. Superfund Section files can be viewed at: <http://deq.nc.gov/waste-management-laserfiche>.

Please contact Janet Macdonald at 919.707.8349 if you have any questions concerning the Superfund Section review portion of this SEPA/NEPA inquiry.



North Carolina Department of Environmental Quality | Division of Waste Management
217 West Jones Street | 1646 Mail Service Center | Raleigh, North Carolina 27699-1646
919.707.8200

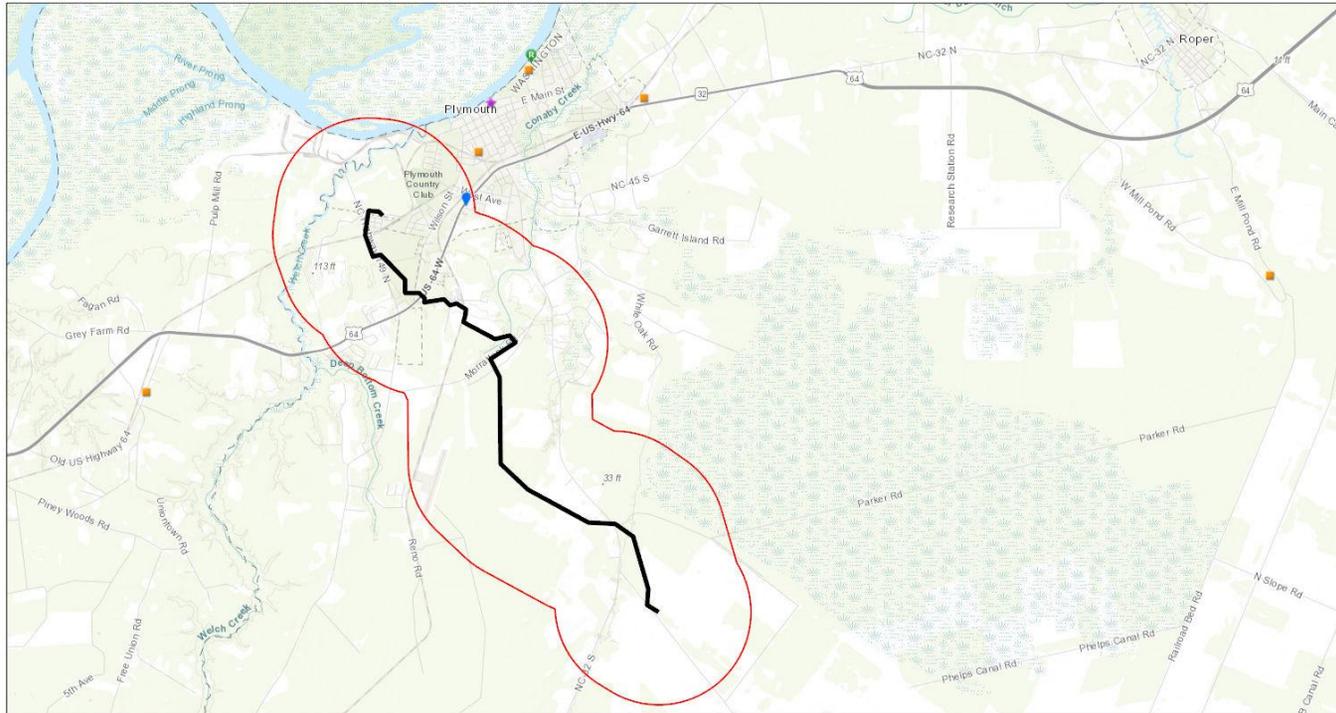


SUPERFUND SECTION SITES ONLY : SEPA/NEPA

Area of Interest (AOI) Information

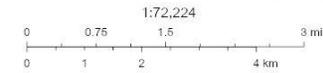
Area : 9,984.94 acres

Oct 5 2021 15:53:30 Eastern Daylight Time



NC Brownfields Location_View

- Recorded
- Federal Remediation Branch
- Pre Regulatory Landfill Sites
- Inactive Hazardous Sites



State of North Carolina DOT, Esri, HERE, Garmin, INCREMENT P, USGS, METINASA, NGA, EPA, USDA

Superfund Section Sites Only : 22-0063 Washington County

Summary

Name	Count	Area(acres)	Length(mi)
Certified DSCA Sites	0	N/A	N/A
Federal Remediation Branch Sites	1	N/A	N/A
Inactive Hazardous Sites	0	N/A	N/A
Pre-Regulatory Landfill Sites	0	N/A	N/A
Brownfields Program Sites	0	N/A	N/A

Federal Remediation Branch Sites

#	SITE_ID	SITE_NAME	Count
1	NCD991278540	WEYERHAEUSER COMPANY PLYMOUTH WOOD TREATING PLANT	1

Department of Environmental Quality Project Review Form

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Oct 21 2021

Project Number: 22-0063

County: Washington

Date Received: 9-16-2021

Due Date: 10-14-2021

Project Description: *Environmental Review - Application of Macadamia Solar, LLC for Certificate to construct six and one half miles of 230-kV transmission line in Washington County. Docket #EMP-119 Sub 1. View document at <https://starw1.ncuc.net/NCUC/page/Dockets/portal.aspx>, Type EMP-119 Sub 1 in the Docket Number search line.*

Located 0.25 miles northeast of the intersection of Highway 32 and Highway 45 and run approximately six and a half miles northwest, crossing Highway 32 and 64, to interconnect to the western side of the existing Trowbridge Substation.

This Project is being reviewed as indicated below:

Regional Office	Regional Office Area	In-House Review	
<input type="checkbox"/> Asheville	<input checked="" type="checkbox"/> Air	<input type="checkbox"/> Air Quality	<input checked="" type="checkbox"/> Coastal Management
<input type="checkbox"/> Fayetteville	<input checked="" type="checkbox"/> DWR	<input type="checkbox"/> Parks & Recreation	<input checked="" type="checkbox"/> Marine Fisheries
<input type="checkbox"/> Mooresville	<input checked="" type="checkbox"/> DWR - Public Water	<input checked="" type="checkbox"/> Waste Mgmt	<input type="checkbox"/> Military Affairs
<input type="checkbox"/> Raleigh	<input checked="" type="checkbox"/> DEMLR (LQ & SW)	<input type="checkbox"/> Water Resources Mgmt (Public Water, Planning & Water Quality Program)	<input type="checkbox"/> DMF-Shellfish Sanitation
<input checked="" type="checkbox"/> Washington	<input checked="" type="checkbox"/> DWM	<input type="checkbox"/> DWR-Transportation Unit	<input checked="" type="checkbox"/> Wildlife <u>Maria</u>
<input type="checkbox"/> Wilmington			<input type="checkbox"/> Wildlife/DOT
<input type="checkbox"/> Winston-Salem			

Manager Sign-Off/Region:	Date: 10/14/21	In-House Reviewer/Agency: Melodi Deaver, Hazardous Waste Section
--------------------------	-------------------	---

Response (check all applicable)

No objection to project as proposed.
 No Comment

Insufficient information to complete review
 Other (specify or attach comments)

If you have any questions, please contact:

Lyn Hardison at lyn.hardison@ncdenr.gov or (252) 948-3842
943 Washington Square Mall Washington NC 27889
Courier No. 16-04-01

Control No.: 22-E-4600-0063
County.: WASHINGTON

Date Received: 9/16/2021
Agency Response: 10/18/2021
Review Closed: 10/18/2021

JINTAO WEN
CLEARINGHOUSE COORDINATOR
DPS - DIV OF EMERGENCY MANAGEMENT

Project Information

Type: State Environmental Policy Act ironmental Review
Applicant: North Carolina Department of Commerce
Project Desc.: Application of Macadamia Solar, LLC for Certificate to construct six and one half miles of 230-kV transmission line in Washington County. Docket #EMP-119 Sub 1. View document at <http://starw1.ncuc.net/NCUC/portal/ncuc/page/Dockets/portal.aspx>, Type EMP-119 Sub 1 in the Docket Number search line.

Located 0.25 miles northeast of the intersection of Highway 32 and Highway 45 and run approximately six and a half miles northwest, crossing Highway 32 and 64, to interconnect to the western side of the existing Trowbridge Substation.

As a result of this review the following is submitted:

No Comment Comments Below Documents Attached

From the information provided it appears the proposed project will encroach into Special Flood Hazard Area (SFHA). Therefore a Floodplain Development Permit issued by Washington County will be required. Please coordinate with the county's Floodplain Administrator for permitting. Any work within the Floodway or Non-Encroachment Area will require a hydraulic analysis to determine the effects on flood levels from the proposed development. Any increase in flood levels during the base flood discharge will require a Conditional Letter of Map Revision (CLOMR) prior to construction. Otherwise, a "No-Rise" certification will be required.

Reviewed By: JINTAO WEN

Date: 10/8/2021

Control No.: 22-E-4600-0063
County.: WASHINGTON

Date Received: 9/16/2021
Agency Response: 10/18/2021
Review Closed: 10/18/2021

JEANNE STONE
CLEARINGHOUSE COORDINATOR
DEPT OF TRANSPORTATION

Project Information

Type: State Environmental Policy Act ironmental Review
Applicant: North Carolina Department of Commerce
Project Desc.: Application of Macadamia Solar, LLC for Certificate to construct six and one half miles of 230-kV transmission line in Washington County. Docket #EMP-119 Sub 1. View document at <http://starw1.ncuc.net/NCUC/portal/ncuc/page/Dockets/portal.aspx>, Type EMP-119 Sub 1 in the Docket Number search line.

Located 0.25 miles northeast of the intersection of Highway 32 and Highway 45 and run approximately six and a half miles northwest, crossing Highway 32 and 64, to interconnect to the western side of the existing Trowbridge Substation.

As a result of this review the following is submitted:

No Comment Comments Below Documents Attached

Reviewed By: JEANNE STONE

Date: 9/17/2021



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. Eric Boyette
SECRETARY

September 17, 2021

MEMORANDUM TO: Crystal Best
NC State Clearinghouse
Administrative Building, 5th Floor, Room #5026

FROM: Hemal Shah, EIT 
Transportation Engineer
Coastal Group, Transportation Planning Division

SUBJECT: 22-E-4600-0063

These are comments from the NCDOT – Transportation Planning Division regarding North Carolina State Clearinghouse of Administration Intergovernmental Review 22-E-4600-0063.

The NCDOT – Transportation Planning Division would like to make the applicant aware of the following project that may impact the study area:

STIP: R-5937 – Morattock Road (SR 1106): Modernize roadway from Long Ridge Road (SR 1100) to NC 32 south.

NCDOT 2020-2029 State Transportation Improvement Program (STIP) can be found at:
<https://connect.ncdot.gov/projects/planning/Pages/State-Transportation-Improvement-Program.aspx>

Please see the attached graphics for a better view of the proposal. If you have any further questions, please do not hesitate to contact me at 919-707-0992 or email at hjshah@ncdot.gov.

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PLANNING DIVISION
1554 MAIL SERVICE CENTER
RALEIGH, NC 27699-1554

Telephone: (919) 707-0900
Fax: (919) 733-9794
Customer Service: 1-877-368-4968

Website: www.ncdot.gov

Location:
1 SOUTH WILMINGTON STREET
RALEIGH, NC 27601

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Oct 21 2021

Legend

NCDOT Current 2020-2029 STIP

2020-2029 STIP Points

- Statewide Highway
- Regional Highway
- Division Highway
- Interstate Maintenance
- Bridge
- Transition Highway
- Other Highway
- ✈ Statewide Aviation
- ✈ Regional Aviation
- ✈ Division Aviation
- ✈ Aviation
- ⚓ Regional Ferry
- ⚓ Division Ferry
- ⚓ Transition Ferry
- 🚆 Statewide Rail
- 🚆 Regional Rail
- 🚆 Division Rail
- 🚆 Transition Rail
- 🚆 Other Rail
- 🚇 Regional Public Transit
- 🚇 Division Public Transit
- 🚲 Division Bicycle And Pedestrian
- 🚲 Transition Bicycle And Pedestrian

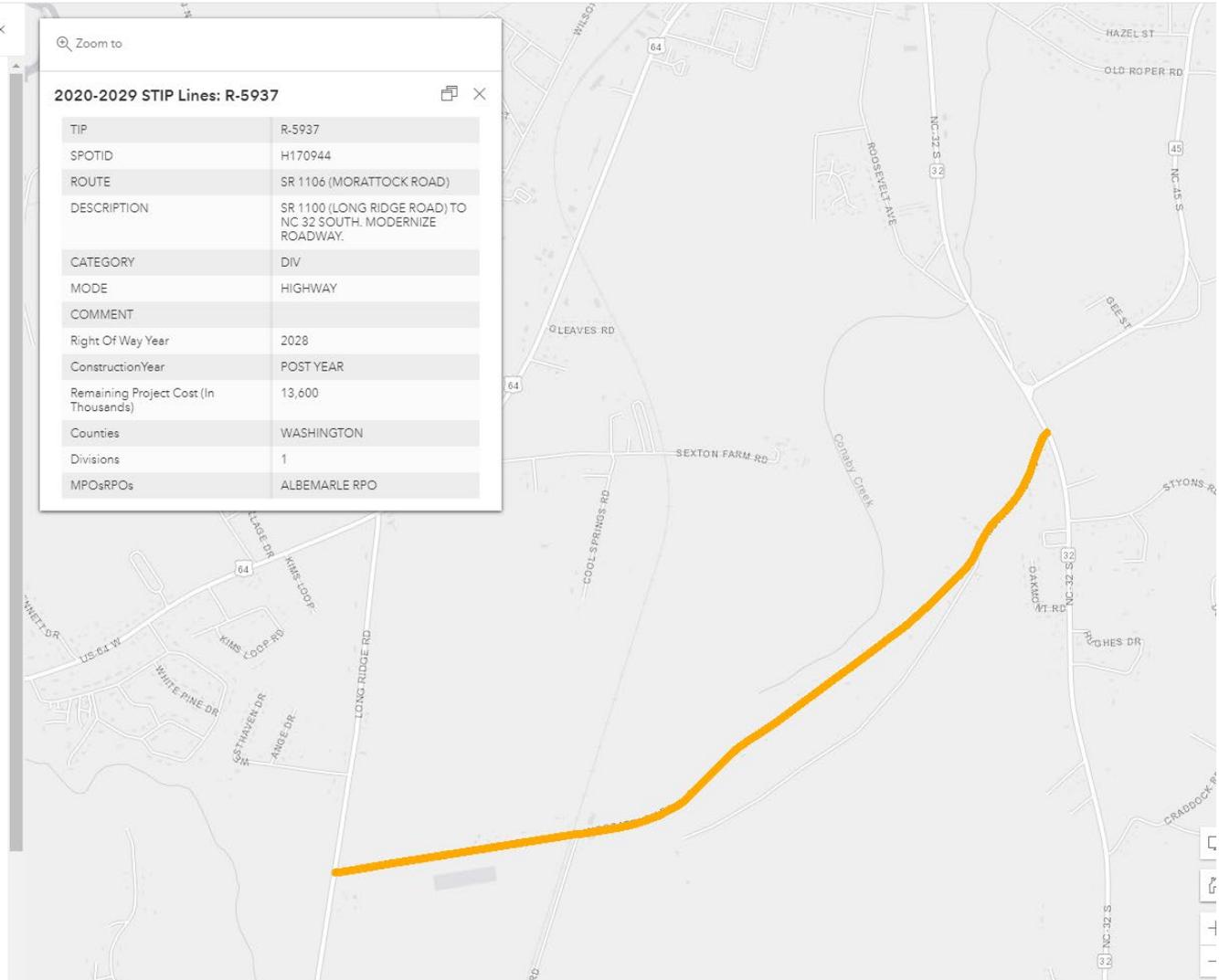
2020-2029 STIP Lines

- Statewide Highway
- Regional Highway
- Division Highway
- IM
- CMAQ
- Other Highway

Zoom to

2020-2029 STIP Lines: R-5937

TIP	R-5937
SPOTID	H170944
ROUTE	SR 1106 (MORATTOCK ROAD)
DESCRIPTION	SR 1100 (LONG RIDGE ROAD) TO NC 32 SOUTH. MODERNIZE ROADWAY.
CATEGORY	DIV
MODE	HIGHWAY
COMMENT	
Right Of Way Year	2028
ConstructionYear	POST YEAR
Remaining Project Cost (In Thousands)	13,600
Counties	WASHINGTON
Divisions	1
MPOsRPOs	ALBEMARLE RPO



Control No.: 22-E-4600-0063
County.: WASHINGTON

Date Received: 9/16/2021
Agency Response: 10/18/2021
Review Closed: 10/18/2021

DEVON BORGARDT
CLEARINGHOUSE COORDINATOR
DEPT OF NATURAL & CULTURAL
RESOURCE

Project Information

Type: State Environmental Policy Act ironmental Review
Applicant: North Carolina Department of Commerce
Project Desc.: Application of Macadamia Solar, LLC for Certificate to construct six and one half miles of 230-kV transmission line in Washington County. Docket #EMP-119 Sub 1. View document at <http://starw1.ncuc.net/NCUC/portal/ncuc/page/Dockets/portal.aspx>, Type EMP-119 Sub 1 in the Docket Number search line.

Located 0.25 miles northeast of the intersection of Highway 32 and Highway 45 and run approximately six and a half miles northwest, crossing Highway 32 and 64, to interconnect to the western side of the existing Trowbridge Substation.

As a result of this review the following is submitted:

No Comment Comments Below Documents Attached

Reviewed By: DEVON BORGARDT

Date: 10/21/2021



North Carolina Department of Natural and Cultural Resources
State Historic Preservation Office

Ramona M. Bartos, Administrator

Governor Roy Cooper
Secretary D. Reid Wilson

Office of Archives and History
Deputy Secretary, Darin J. Waters, Ph.D.

October 21, 2021

MEMORANDUM

TO: Crystal Best crystal.best@doa.nc.gov
North Carolina State Clearinghouse
Department of Administration

FROM: Ramona Bartos *RSB for Ramona M. Bartos*

SUBJECT: Construct 6.5 miles of transmission line, intersection of Highway 32 and Highway 45 and running northwest to Trowbridge Substation, Washington County, SCH 22-E-4600-0063, NCUC Docket No. EMP-119 Sub 1, ER 21-2263

Thank you for your email of September 16, 2021, concerning the above project.

We have received notification from the State Clearinghouse of the proposed new electrical transmission corridor in Washington County. Although no recorded archaeological sites are located within the proposed powerline corridor, it has never been surveyed for the presence of archaeological remains. Since the powerline will cross numerous undisturbed tracts with various topographic and hydrologic characteristics, it is very likely that potentially significant archaeological sites exist within the proposed corridor. We, therefore, recommend that an archaeological survey be conducted to identify any archaeological sites that may be destroyed by the construction of powerline.

The purpose of this survey is to identify archaeological sites and make recommendations regarding their eligibility status in terms of the NRHP. This work should be conducted by an experienced archaeologist who meets the Secretary of the Interior's Professional Qualification Standards. A list of archaeological consultants who have conducted or expressed an interest in contract work in North Carolina is available at <https://archaeology.ncdcr.gov/archaeological-consultant-list>. The archaeologists listed, or any other experienced archaeologist, may be contacted to conduct the recommended survey.

Please note that our office requests consultation with the Office of State Archaeology Review Archaeologist to discuss appropriate field methodologies prior to the archaeological field investigation.

One paper copy and one digital copy (PDF) of all resulting archaeological reports, as well as a digital copy (PDF) of the North Carolina Site Form for each site recorded, should be forwarded to the Office of State Archaeology (OSA) through this office, for review and comment as soon as they are available and in advance of any construction or ground disturbance activities. OSA's Archaeological Standards and

Guidelines for Background Research, Field Methodologies, Technical Reports, and Curation can be found online at: https://files.nc.gov/dncr-arch/OSA_Guidelines_Dec2017.pdf

We are unable to accurately assess impacts to historic properties within the Area of Potential Effect. Please provide preliminary reconnaissance photographs of all structures 50 years or older directly adjacent to or within view of the transmission line. A final determination or request for evaluation of eligibility will be made once we have received the requested documentation.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, contact Renee Gledhill-Earley, Environmental Review Coordinator, at 919-814-6579 or environmental.review@ncdcr.gov. In all future communication concerning this project, please cite the above referenced tracking number.

cc: Donna Robichaud
Macadamia Solar, LLC
1930 Abbott Street, Suite 402
Charlotte, NC 28203

Donna.Robichaud@greenexsolar.com

Benjamin L. Snowden
Fox Rothschild LLP
434 Fayetteville Street, Suite 2800
Raleigh, NC 27601

BSnowden@foxrothschild.com

Lindsey Worley
NC DOC
4325 Mail Service Center
Raleigh, NC 27699-4300

lworley@ncuc.net