

2EN2.3 Stage 2 - Traffic Noise and Air Quality

QA Checklist for TNR NOISE ANALYSIS WORK PLAN

SPOT ID/Project TIP #: _____

County: _____

Note: This QA checklist is for the initial submittal only. For subsequent submittals, the Comment/Response matrix will serve as QA checklist.

Item #	Review Item	Yes	No	N/A
QA.0	Appropriate QC has taken place (all applicable State and Federal regulations, standards, and policies are met and all modeling, calculations, reports, etc. are complete, accurate and reasonable).			
QA.1	Reporting			
QA.1.1	Prepared by a traffic noise analyst prequalified with NCDOT to prepare TNR.			
QA.1.2	The Noise Analysis Work Plan Template has been followed.			
QA.1.2.1	Design speed has been confirmed and identified and aligns with most current design criteria.			
QA.1.2.2	Explains why the project is a Type I for noise study purposes.			
QA.1.2.3	Includes a sufficient discussion of all primary types of land uses (NAC category) in the study area.			
QA.1.2.4	Includes commitment to verify certain info in field (duplicate or missing address info, NAC category for uncertain buildings, receptor locations, etc.), areas of frequent human use at special land use locations, number of units at multi-family residential buildings.			
QA.1.2.5	Discusses any areas where model validation isn't needed (for projects that include new location alternatives).			
QA.1.2.6	Non-residential noise sensitive land uses where ER calculations are anticipated have been identified.			
QA.1.3	Must be approved by NCDOT prior to initiation of any noise measurements or modeling.			
QA.1.4	Project traffic forecast shows no "extreme" directional splits as defined in the Manual (i.e. 65% directional factor, or greater). If there are extreme directional splits, coordination with the Traffic Noise and Air Quality Group has occurred to determine the best traffic calculation method.			
QA.2	Figures			
QA.2.1	Figures show appropriate number and location of proposed short-term and long-term noise monitoring sites, and number of SLMs per site, as applicable, indicated with white dots on the figures (can be adjusted in the field if needed). Include reason(s) for any long-term measurements, as applicable.			

Item #	Review Item	Yes	No	N/A
QA.2.2	Figures include all receptor locations and the associated noise abatement criteria (NAC) activity category for each location, including black dots for NAC F and other non-noise sensitive land uses.			
QA.2.3	Proposed spatial limits of traffic noise study area generally follow guidance from the applicable NCDOT Traffic Noise Manual (may need to be expanded following the initial noise modeling effort if the outer limit of predicted traffic noise impacts and/or benefits is not defined).			
QA.2.4	NSA boundaries are shown.			
QA.2.5	Proposed design (if available) is shown.			

For items marked NO or N/A that require further explanation, provide comments or action items in the table below.

Item #	Comments and Action Items

This checklist may not be comprehensive to every project. All items may not be applicable for smaller projects. It is the responsibility of the reviewer to ensure that an adequate review is performed.

I have reviewed the deliverables for consistency with this checklist and confirmed that all items have been completed.

QA Reviewer Name: _____ **Date:** _____

QA Reviewer (Signature): _____