



Recommended Format for the Long Island Water Quality Challenge Project Proposals

The Long Island Regional Planning Council (LIRPC) asks that participating teams use the following format for their STEM Challenge project proposals. Following this format serves two purposes: 1) it will assist each team in writing and organizing their project proposal, and 2) it will help the selection committee conduct a prompt and expeditious review.

- Cover Page - includes the title of the project, names and grades of each team member, and school name and address. Please feel free to use the provided Cover Page Template.
- Table of Contents
- Summary – includes the questions that the project seeks to answer; the problems that the project intends to address.
- Identify and describe both traditional stormwater infrastructures (such as drains, pipes and gutters) and Green Infrastructure practices currently on school grounds. School maintenance personnel may be able to assist with this.
- Identify if stormwater is currently being collected and/or treated. Include any current practices that the school uses to address nitrogen pollution and other contaminants. School maintenance personnel may be able to assist with this.
- A description of where stormwater on school grounds currently goes. Does it travel off school property, flood certain areas of the school grounds or parking lots?
- Collection and Treatment Background Research including:
 - How and where could stormwater collection be improved on school grounds?
 - How could the current practices of treating stormwater be improved?
 - How could these suggestions reduce nitrogen pollution and be better for the environment?
- Preliminary design of Green Infrastructure improvements/innovations including:

- What is the Green Infrastructure concept being proposed?
 - How does the idea support the goals of LINAP?
 - What specific areas of the school grounds will be targeted?
 - What are the materials and resources needed to create the Green Infrastructure?
 - Provide an estimate of the costs involved.
 - How will the reduction in nitrogen pollution and stormwater runoff be measured?
 - Include any optional actual experiments or prototypes developed while creating the design.
- Installation of Proposed Project – if the project was able to be installed on school grounds, please include the following:
 - Who will install the infrastructure?
 - Timeline
 - Who is responsible for ongoing maintenance and cost?
 - Are any approvals or permits required?
 - Analysis and Discussion – how would the Green Infrastructure project proposal benefit the environment, school, and community? How would it be useful in educating the school community and beyond about nitrogen pollution, stormwater runoff, and LINAP?
 - Acknowledgements – this is an opportunity to thank anyone that helped with the project.
 - Sources cited - reference all sources using the APA citation format included in the LIWQC Resource Library.

Cover Page Template

Please include the below information on the cover page of your proposal. Feel free to be creative in terms of design, color, and images.

Project Title

First and Last Name of Each Team Member

School Name and Address

Grade

Date