

From: Melissa Rodriguez-Vodak

Sent: Saturday, March 21, 2015 4:37 PM

To: Marchi Family

Cc: Mary Jo Rossetti ; wigzamore ; kvalet3 ; Hanan Alzaim ; Sharon Lee ; Levy, Jonathan I ; Lindsay Underhill

Subject: Re: Boston University Student Project: Logan Airport and Community Impacts

Wig, Mary Jo, and Chris,

Thank you all for responding so quickly. We appreciate your enthusiasm and we are excited to get started! As mentioned before, we are interested in looking at airport-related noise and sleep disturbance. We aim to analyze this association with the use of surveys and a smart phone app like "Noise Tube" that can both data logging noise levels and provide GPS coordinates of sampling locations. To accomplish this objective, we would like to recruit 20 community members from East Boston and 20 from Somerville (who live near/under flight path to runway 33L). Participants will be asked to answer survey questions before and after sleeping. The smartphone app "NoiseTube" will run during the hours of 10 pm - 7 am, FAA designated night hours. We hope to have community members conduct noise sampling/answer surveys for 3-4 nights. During these times we will also set up two dosimeters in each community to serve as a comparison measurement to the phone measurements. We will compare noise measurements to flight activity and analyze the data to determine whether the measured noise events are associated with airport activity, what noise levels elicit sleep disturbance, and whether the number of "noise events" during the sample period is associated with frequency of sleep disturbances. Ultimately, we would like to determine the feasibility and utility of mobile phone noise applications to lay a foundation for future studies to utilize these applications for assessing the relationship between airport-related noise and community health impacts.

We recognize that this is an ambitious project. We have been given a short period of time (two weeks for data collection) and limited resources to conduct this student project. We are continuing to formulate our proposal, which will be presented for your review and comments. In the meantime, we wanted to get the participant recruitment piece started and hope you all would be willing to help us recruit community members who are willing to commit to 3-4 nights towards this project. Please let us know your thoughts and whether or not it would be possible to gather 20 participants from each of the communities (feel free to participate yourself!).

Additionally, if we could schedule a phone meeting to further discuss the project and get your feedback that would be great! We would greatly appreciate if you could get back to us as soon as possible.

Thank you in advance,

Melissa, Sharon, Hana, Kirby

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Melissa Rodriguez-Vodak

Environmental Health & Safety Generalist

Masters Degree Candidate

Environmental Health

Boston University School of Public Health

mjrvodak@bu.edu