

## Craig Hill

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**Subject:** FW: 409 Cumberland Ave - permit app # 2014-00246 - 036-H-019  
**Attachments:** 409 Cumberland Avenue.pdf

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**From:** Charette, Jeff [mailto:JJCHARETTE@TRANE.COM]  
**Sent:** Friday, July 25, 2014 4:12 PM  
**To:** Tony Stevens; Craig Hill; Corinne Hutchinson  
**Subject:** 409 Cumberland Ave - permit app # 2014-00246 - 036-H-019

Tony,

I understand that the specified Greenheck units had a sound pressure level of 68dBA at 5feet. I have attached an acoustical report run through the Trane Acoustics Program. I entered the sound power level of the Renewaire ERV unit (custom element #1) and the sound power level of the Trane packaged rooftop (custom element #2). This provided a sum of the sound power of the two units operating together. Assuming a building height of 40 feet and a distance of 5 feet from the unit the program calculated the sound pressure to be 66dBA.

Kind Regards,

**Jeff Charette**  
Systems Account Manager

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 Please consider the environment before printing this email

*-68dBA @ 10'*  
*-68dBA @ 20'*  

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*54 dBA @ 20'*

# Paths Report

Project Name: 409 Cumberland Avenue Housing  
 Location: Cumberland Avenue  
 Building Owner: Avesta Housing  
 Project ID:

Element 63Hz 125Hz 250Hz 500Hz 1KHz 2KHz 4KHz Comments

|                |           |           |           |           |           |           |           |                                                                                                                                                                      |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Custom Element | 94        | 98        | 95        | 91        | 85        | 84        | 81        | Renewaite ERV model HE4XRT<br>Trane packaged rooftop, model YSC120<br><br>Assumptions: Based on a building height of 40 feet and a distance of 5 feet from the unit. |
| Custom Element | 91        | 86        | 90        | 86        | 82        | 78        | 73        |                                                                                                                                                                      |
| <b>SubSum</b>  | <b>96</b> | <b>98</b> | <b>96</b> | <b>92</b> | <b>87</b> | <b>85</b> | <b>82</b> |                                                                                                                                                                      |
| Outdoor        | -28       | -28       | -28       | -28       | -28       | -28       | -28       |                                                                                                                                                                      |
| Sum            | 68        | 70        | 68        | 64        | 59        | 57        | 54        |                                                                                                                                                                      |

NC 61 RC 60(H) 66 dBA POSSIBILITY OF NOISE-INDUCED VIBRATION

Path1