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## Environnement Sonore – Recepteur A-4

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### Question:

Why were two different sites used for A-4? Should not locations be consistent?

### Answer:

Two measurements from November 11 through 13 were made at location A4 to ensure a sufficient attempt was made to collect valid data according to MDDEP requirements. MDDEP requires at least 3 measurements of 20 minute duration during both the day (07:00 to 19:00) and night (19:00 to 07:00).

Data from the first measurement (November 11 to 12) were used for the baseline report. This set-up location will be used for future measurements at this site. The specific location of the meter was at the southeast corner of the residence. Specific distances to the nearest obstacles were:

- House: 6.2 m
- Tree: 6.4 m
- Fence: 3.8 m

A second measurement (November 12 to 13) was conducted when the field crew noted the outdoor temperature between 6:00 and 7:00 am had dropped to -10C, which is the exact lower limit of the designed operating range for the instrument. While the first measurement data was still valid, the temperature was borderline, therefore the decision was made to gather extra data while the crew was still on site. MDDEP requires noise measurement equipment be operated within manufacturer's specifications.

After a detailed review of the data, it was determined that the approximately 17 hrs of valid data (12 at night, 5 during the day) from the first measurement location was sufficient to meet MDDEP requirements and to show that the Zone 1 noise criteria would apply. The review of sound recordings for the latter portion of the first measurement session (as indicated in Figure A-4 of the Baseline Report) and the entirety of the second measurement contained a significant amount of static. The presence of static put the measurements in question, and therefore data collected during this period was not considered valid for analysis.