



**EVENT ACOUSTICS**

ENTERTAINMENT TECKNOWLEDGY

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# **Amsterdam NDSM, DGTL 2019**

Na analyse

## Event Acoustics

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# Amsterdam NDSM, DGTL 2019

Na analyse

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## 1 Inleiding

In opdracht van de Gemeente Amsterdam is door Event Acoustics BV een akoestische studie verricht voor het "DGTL 2019" evenement, dat plaats heeft gevonden op het NDSM terrein te Amsterdam.

Reden voor het onderzoek was het inventariseren van de door het evenement veroorzaakte optredende geluidsniveaus in de omgeving van het evenement met hierin specifiek meegenomen de meteo omstandigheden zoals deze tijdens het evenement optraden. Dit omdat er tijdens het evenement uitzonderlijk veel klachten zijn ingediend door bewoners van bepaalde wijken, met name in de Westelijke richting.

Doormiddel van de berekeningen wordt inzichtelijk gemaakt welke geluidsniveaus er tijdens het evenement konden optreden in deze wijken waar geen permanente meetapparatuur stond tijdens het evenement.

Om dit doel te realiseren is een akoestisch model opgesteld met specifiek het "NORD2000" rekenmodel waarmee de geluidsuitstraling naar de omgeving is berekend. Dit rekenmodel kan veel accurater de meteo omstandigheden modelleren dan het in Nederland gangbare HRMI rekenmodel.

De resultaten van dit onderzoek worden in dit rapport beschreven.

## 2 Situatie

### 2.1 Locatie

Het NDSM terrein is gelegen aan de oever van het IJ in Amsterdam noord. Het terrein is aan alle zijdes omgeven door woningen.

Onderstaande luchtfoto geeft de locatie rood gemarkeerd weer.



### 2.2 Evenement

Het evenement is een middelgroot muziekfestival met live muziek en DJ's.  
Het bezoekersaantal is ca. 15.000 personen.

#### 2.2.1 Tijden

Het evenement vond plaats op zaterdag 20 april en zondag 21 april 2019.  
Het evenement had een overdag- en avondprogrammering van 13.00 tot 23.00 uur.

### 2.2.2 Podia

Het evenement heeft 7 podia. In onderstaand figuur is de locatie van de podia weergegeven.



### 2.2.3 Speelrichtingen

Onderstaand figuur geeft de speelrichtingen van de podia met een rode pijl weer.



### 3 Doelstelling

Het doel van dit onderzoek is inventariseren van de geluidsbelasting in de omgeving van het evenementen terrein met specifiek de tijdens het evenement opgetreden meteorologische omstandigheden.

Hierbij zijn de aanvullende maatregelen om de geluidsuitstraling te beperken zoals voorgeschreven in het adviesrapport "*Geluidsplan V1'DGTL 2019'NDSM-terreinAmsterdam*" van Westerveld advies meegenomen.

#### 3.1 Geldende grenswaarden

Tijdens het evenement gelden grenswaarden van **80dB<sub>L</sub>ceq**, 3min op de gevels van de omliggende geluidsgevoelige bebouwing.

#### 3.2 Benodigde geluidsniveaus

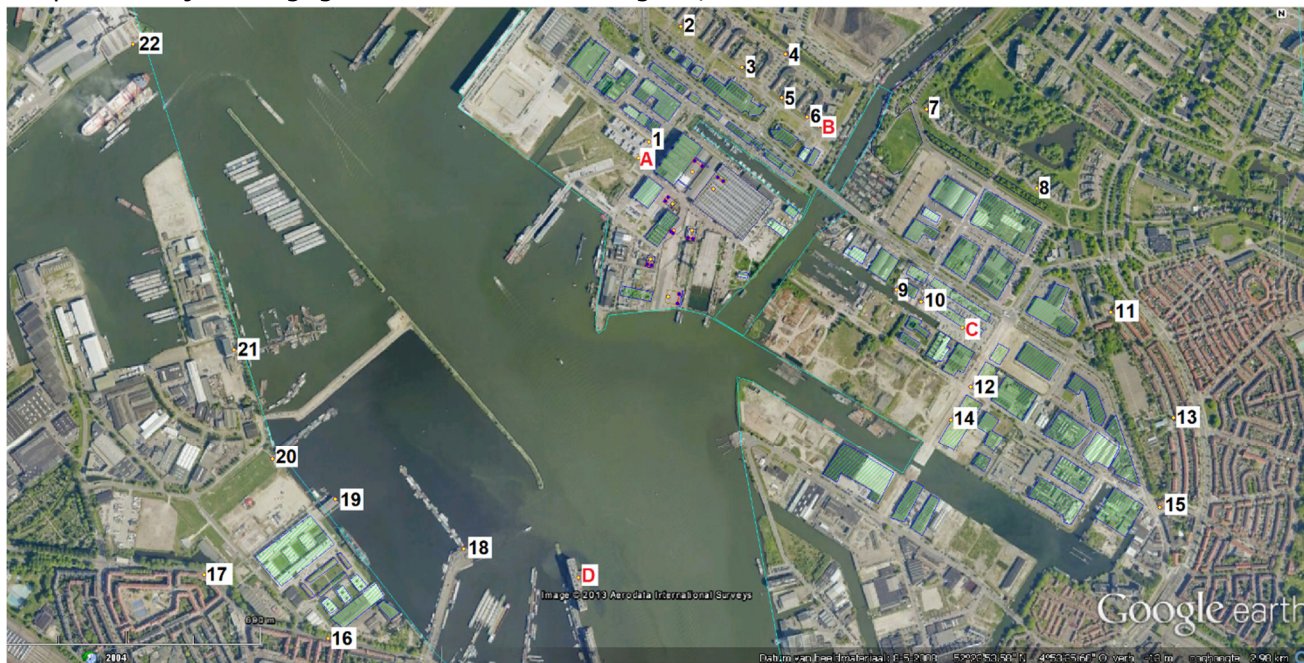
Tijdens het evenement zijn bij de podia niveaus van ca.100 dB(A) / 115-118 dB(C) bij de geluidstafel (FOH) posities geproduceerd.

Voor dit onderzoek zijn de niveaus aangehouden zoals deze daadwerkelijk tijdens het evenement zijn geproduceerd.

### 3.3 Beoordelingsposities

Voor de berekeningen is uitgegaan van 26 beoordelingsposities in de omgeving van het terrein ter hoogte van de dichtstbijzijnde geluidsgevoelige bebouwing, op 5 meter hoogte bij laagbouw en op 20 meter hoogte bij hoogbouw. De posities A t/m D zijn de permanente meetposities die tijdens het evenement zijn toegepast.

De posities zijn weergegeven in onderstaand figuur;



| Positie | Naam                      |
|---------|---------------------------|
| 1       | Ondinaweg                 |
| 2       | StrekkerwegA              |
| 3       | StrekkerwegB              |
| 4       | Scheepsbouwweg            |
| 5       | StrekkerwegC              |
| 6       | StrekkerwegD              |
| 7       | BuiksloterbreekA          |
| 8       | BuiksloterbreekB          |
| 9       | Moederkruidstraat 5       |
| 10      | Maagdenpalmstraat 5       |
| 11      | HeggerankwegA             |
| 12      | Bosrankstraat 32          |
| 13      | HeggerankwegB             |
| 14      | Christoffelkruidstraat 74 |
| 15      | HeggerankwegC             |
| 16      | Tasmanstraat              |
| 17      | Spaarndammerdijk          |
| 18      | Pontsteiger               |
| 19      | Stettineiland             |
| 20      | Happarandadam             |
| 21      | Danzigerkade              |
| 22      | Fosfaatweg                |
| A       | 02_A Containerwoningen    |
| B       | 03_A Ponserstraat 2-30    |
| C       | 04_A Monnikskapstraat     |
| D       | 01_A Silodam              |

## 4 Methodiek

Om tot een oplossing binnen de doelstelling te komen is een akoestisch rekenmodel (Soundplan 7.4) opgesteld van de situatie.

Dit geavanceerde rekenmodel houdt rekening met omgevingsvariabelen, isolatie, schermwerking, 3D directiviteit van bronnen en klimatologische omstandigheden.

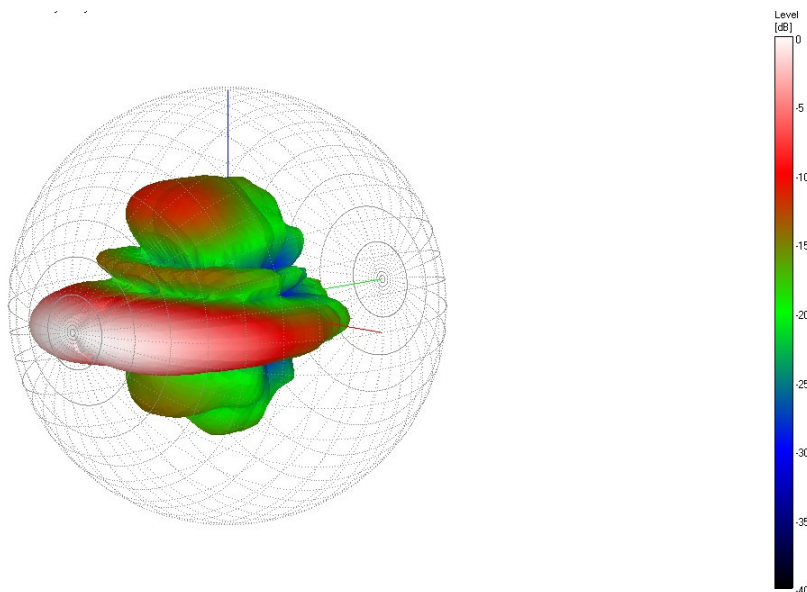
Doormiddel van overdrachtsberekeningen is de bijdrage van individuele bronnen op de immisiepunten berekend. Het model verkrijgt zijn Digital Ground Model uit Google Earth, deze data wordt vervolgens geverifieerd met de AHN Hoogteprofiel-tool.

Alle berekeningen zijn in het rekenmodel uitgevoerd met het NORD2000 model.

De directiviteit van de geluidssystemen is verkregen doormiddel van BEM modelling van de arrays, waarbij 3D balloon data van de losse elementen in het array zijn gemeten en vervolgens tot array 3D balloon data zijn omgerekend.

De 3D balloon data zijn opgebouwd uit meetpunten in een 360 graden bol rond het array, welke fase-en amplitude data bevat van 1/3 octaaf frequenties in het frequentie gebied 25Hz-12k5Hz. De resolutie van de balloon data is 10 graden in alle directies wat leidt tot een totaal aantal complexe datapunten van 36288 ( $36 \times 36 \times 28$  frequenties) per bron.

Onderstaand figuur geeft een 3D weergave van 3D balloon data van 1 frequentie.



Deze methode zorgt voor een hoge model accuraatheid van het afstraalgedrag van de arrays, zowel bij lage als hoge frequenties.

Voor de sublaag arrays is een door Event Acoustics ontwikkelde BEM array-afstraal software gebruikt.

Voor de isolatiewaarden van constructie delen is het rekenmodel Winflag gebruikt. Dit is een rekenmodel wat aan de hand van materiaaleigenschappen, doormiddel van complexe impedantiematrices, de isolatiewaarden van (samengestelde) constructies kan voorspellen. Deze berekende waarden zijn geijkt aan meetdata van Event Acoustics van isolatiewaarden van evenement tenten.

#### 4.1 Modelopzet

Onderstaand figuur laat een bovenaanzicht van de modelopzet zien. De gele punten zijn meetposities en de paarse punten zijn luidspreker arrays.

De relevante gebouwen en obstakels voor reflecties en schermwerking zijn groen en blauw gearceerd.



## 5 Maatregelen

De maatregelen die geadviseerd zijn door Westerveld advies zijn mee- gemodelleerd.

Er wordt aangenomen dat deze ook allen integraal zijn uitgevoerd.

De maatregelen betreffen:

### 5.1 Area 1: MODULAR, Polygoonhal (40 x 70 m.)

- Zeecontainers aan de noordzijde (3-laags) en de zuidzijde (2-laags) van deze area.
- Toepassen van een line-array of gelijkwaardig geluidstelsel.
- Om optimaal van de afschermende werking van de zeecontainers gebruik te kunnen maken dienen de luidsprekers zo laag en dicht mogelijk voor de containers opgehangen te worden. Geadviseerd wordt de bovenste kast van het array minimaal 5 graden naar beneden te richten;
- De cross-overfrequentie tussen sub- en topkasten dient voldoende hoog ingesteld te worden (niet lager dan 80 Hz), zodat er slechts sprake is van geringe weergave van de bastonen < 80 Hz vanuit de topkasten. Als highpass filter op de topkasten wordt een Linkwitz-Riley 24 dB/octaaf filter geadviseerd.
- Toepassen van een zogenaamde "cardioïde" sublaag array opstelling in een 1:2 verhouding of een gelijkwaardige oplossing van de subkasten, dit maakt het mogelijk om de subafstraling (bassen) naar de achter- en zijanten sterk te reduceren. Bijkomend voordeel is dat het recht naar voren uitgestraalde vermogen toeneemt zodat het systeem minder hard gezet behoeft te worden om hetzelfde effect te realiseren.
- Subkasten moeten op 1-lijn voor het podium geplaatst worden.
- Indien van toepassing moeten ook de subkasten op het podium (DJ-monitoren) in een cardioïde opstelling 1:1 verhouding achter de DJ-booth geplaatst te worden.
- Frequenties onder de 40 Hz worden afgefilterd met een verval van 6 dB per tertsband;
- Er worden geen scrim (mesh) doeken voor de geluidssystemen gehangen;
- Gevloegen subwoofers en subwoofers groter dan 21" worden niet gebruikt.

### 5.2 Area 2: GENERATOR, Scheepsbouwlloods (30 x 67 m.)

- Zeecontainers (2-laags) achter het podium, tussen de vloer van de skatebaan en de containers dient een houten wand (massa > 10 kg/m<sup>2</sup>) gerealiseerd te worden.
- Toepassen van een line-array of gelijkwaardig geluidstelsel;
- Om optimaal van de afschermende werking van de zeecontainers gebruik te kunnen maken dienen de luidsprekers zo laag en dicht mogelijk voor de containers opgehangen te worden. Geadviseerd wordt de bovenste kast van het array minimaal 5 graden naar beneden te richten;
- De cross-overfrequentie tussen sub- en topkasten dient voldoende hoog ingesteld te worden (niet lager dan 80 Hz), zodat er slechts sprake is van geringe weergave van de bastonen < 80 Hz vanuit de topkasten. Als highpass filter op de topkasten wordt een Linkwitz-Riley 24 dB/octaaf filter geadviseerd.
- Bovengenoemd systeem zal worden aangevuld met zogenaamde delay-stacks waarmee een akoestisch gunstiger invulling van de hal wordt gerealiseerd.
- Toepassen van een zogenaamde "cardioïde" sublaag array opstelling in een 1:2 verhouding of een gelijkwaardige oplossing van de subkasten, dit maakt het mogelijk om de subafstraling (bassen) naar de achter- en zijanten sterk te reduceren. Bijkomend voordeel is dat het recht naar voren uitgestraalde vermogen toeneemt zodat het systeem minder hard gezet behoeft te worden om hetzelfde effect te realiseren.
- Subkasten moeten op 1-lijn voor het podium geplaatst worden.
- Indien van toepassing moeten ook de subkasten op het podium (DJ-monitoren) in een cardioïde opstelling 1:1 verhouding achter de DJ-booth geplaatst te worden.
- Frequenties onder de 40 Hz worden afgefilterd met een verval van 6 dB per tertsband;
- Er worden geen scrim (mesh) doeken voor de geluidssystemen gehangen;
- Gevloegen subwoofers en subwoofers groter dan 21" worden niet gebruikt.

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### 5.3 Area 3: FREQUENCY, Polygoonhal (20 x 40 m.)

- De cross-overfrequentie tussen sub- en topkasten dient voldoende hoog ingesteld te worden (niet lager dan 80 Hz), zodat er slechts sprake is van geringe weergave van de bastonen < 80 Hz vanuit de topkasten. Als highpass filter op de topkasten wordt een Linkwitz-Riley 24 dB/octaaf filter geadviseerd.
- Bovengenoemd systeem zal worden aangevuld met zogenaamde delay-stacks waarmee een akoestisch gunstiger invulling van de area wordt gerealiseerd.
- Toepassen van een zogenaamde "cardioïde" sublaag array opstelling in een 1:2 verhouding of een gelijkwaardige oplossing van de subkasten, dit maakt het mogelijk om de subafstraling (bassen) naar de achter- en zijkanten sterk te reduceren. Bijkomend voordeel is dat het recht naar voren uitgestraalde vermogen toeneemt zodat het systeem minder hard gezet behoeft te worden om hetzelfde effect te realiseren.
- Subkasten moeten op 1-lijn voor het podium geplaatst worden.
- Indien van toepassing moeten ook de subkasten op het podium (DJ-monitoren) in een cardioïde opstelling 1:1 verhouding achter de DJ-booth geplaatst te worden.
- Frequenties onder de 40 Hz worden afgefilterd met een verval van 6 dB per tertsband;
- Er worden geen scrim (mesh) doeken voor de geluidsystemen gehangen;
- Gevlogen subwoofers en subwoofers groter dan 21" worden niet gebruikt.

### 5.4 Area 4: FILTER, Ovale tent

- Plaatsen van zeecontainers (2-laags) achter het podium van deze area.
- Om optimaal van de afschermdende werking van de zeecontainers gebruik te kunnen maken dienen de luidsprekers zo laag en dicht mogelijk voor de containers opgehangen te worden. Geadviseerd wordt de bovenste kast van het array minimaal 5 graden naar beneden te richten;
- De cross-overfrequentie tussen sub- en topkasten dient voldoende hoog ingesteld te worden (niet lager dan 80 Hz), zodat er slechts sprake is van geringe weergave van de bastonen < 80 Hz vanuit de topkasten. Als highpass filter op de topkasten wordt een Linkwitz-Riley 24 dB/octaaf filter geadviseerd.
- Toepassen van een zogenaamde "cardioïde" sublaag array opstelling in een 1:2 verhouding of een gelijkwaardige oplossing van de subkasten, dit maakt het mogelijk om de subafstraling (bassen) naar de achter- en zijkanten sterk te reduceren. Bijkomend voordeel is dat het recht naar voren uitgestraalde vermogen toeneemt zodat het systeem minder hard gezet behoeft te worden om hetzelfde effect te realiseren.
- Subkasten moeten op 1-lijn voor het podium geplaatst worden.
- Indien van toepassing moeten ook de subkasten op het podium (DJ-monitoren) in een cardioïde opstelling 1:1 verhouding achter de DJ-booth geplaatst te worden.
- Frequenties onder de 40 Hz worden afgefilterd met een verval van 6 dB per tertsband;
- Er worden geen scrim (mesh) doeken voor de geluidsystemen gehangen;
- Gevlogen subwoofers en subwoofers groter dan 21" worden niet gebruikt.

### 5.5 Area 5: AMP, Polygoonhal (40 x 50 m.)

- Zeecontainers (2-laags) aan de oostzijde van deze area.
- Toepassen van een line-array of gelijkwaardig geluidstelsel.
- Om optimaal van de afschermdende werking van de zeecontainers gebruik te kunnen maken dienen de luidsprekers zo laag en dicht mogelijk voor de containers opgehangen te worden. Geadviseerd wordt de bovenste kast van het array minimaal 5 graden naar beneden te richten;
- De cross-overfrequentie tussen sub- en topkasten dient voldoende hoog ingesteld te worden (niet lager dan 80 Hz), zodat er slechts sprake is van geringe weergave van de bastonen < 80 Hz vanuit de topkasten. Als highpass filter op de topkasten wordt een Linkwitz-Riley 24 dB/octaaf filter geadviseerd.
- 1033 WB 15 WO 015-10-01-19 V1 Pagina 10 van 14
- Toepassen van een zogenaamde "cardioïde" sublaag array opstelling in een 1:2 verhouding of een gelijkwaardige oplossing van de subkasten, dit maakt het mogelijk om de subafstraling (bassen) naar de achter- en zijkanten sterk te reduceren. Bijkomend

voordeel is dat het recht naar voren uitgestraalde vermogen toeneemt zodat het systeem minder hard gezet behoeft te worden om hetzelfde effect te realiseren.

- Subkasten moeten op 1-lijn voor het podium geplaatst worden.
- Indien van toepassing moeten ook de subkasten op het podium (DJ-monitoren) in een cardioïde opstelling 1:1 verhouding achter de DJ-booth geplaatst te worden.
- Frequenties onder de 40 Hz worden afgefilterd met een verval van 6 dB per tertsbands;
- Er worden geen scrim (mesh) doeken voor de geluidsystemen gehangen;
- Gevlogen subwoofers en subwoofers groter dan 21" worden niet gebruikt.

## 5.6 Area 6: RA, tent (10 x 15 m.)

- De cross-overfrequentie tussen sub- en topkasten dient voldoende hoog ingesteld te worden (niet lager dan 80 Hz), zodat er slechts sprake is van geringe weergave van de bastonen < 80 Hz vanuit de topkasten. Als highpass filter op de topkasten wordt een Linkwitz-Riley 24 dB/octaaf filter geadviseerd.
- Toepassen van een zogenaamde "cardioïde" sublaag array opstelling in een 1:2 verhouding of een gelijkwaardige oplossing van de subkasten, dit maakt het mogelijk om de subafstraling (bassen) naar de achter- en zijanten sterk te reduceren. Bijkomend voordeel is dat het recht naar voren uitgestraalde vermogen toeneemt zodat het systeem minder hard gezet behoeft te worden om hetzelfde effect te realiseren.
- Subkasten moeten op 1-lijn voor het podium geplaatst worden.
- Indien van toepassing moeten ook de subkasten op het podium (DJ-monitoren) in een cardioïde opstelling 1:1 verhouding achter de DJ-booth geplaatst te worden.
- Frequenties onder de 40 Hz worden afgefilterd met een verval van 6 dB per tertsbands;
- Er worden geen scrim (mesh) doeken voor de geluidsystemen gehangen;
- Gevlogen subwoofers en subwoofers groter dan 21" worden niet gebruikt.

## 5.7 Area 7: Live (25 x 25 m.)

- De cross-overfrequentie tussen sub- en topkasten dient voldoende hoog ingesteld te worden (niet lager dan 80 Hz), zodat er slechts sprake is van geringe weergave van de bastonen < 80 Hz vanuit de topkasten. Als highpass filter op de topkasten wordt een Linkwitz-Riley 24 dB/octaaf filter geadviseerd.
- Toepassen van een zogenaamde "cardioïde" sublaag array opstelling in een 1:2 verhouding of een gelijkwaardige oplossing van de subkasten, dit maakt het mogelijk om de subafstraling (bassen) naar de achter- en zijanten sterk te reduceren. Bijkomend voordeel is dat het recht naar voren uitgestraalde vermogen toeneemt zodat het systeem minder hard gezet behoeft te worden om hetzelfde effect te realiseren.
- Subkasten moeten op 1-lijn voor het podium geplaatst worden.
- Indien van toepassing moeten ook de subkasten op het podium (DJ-monitoren) in een cardioïde opstelling 1:1 verhouding achter de DJ-booth geplaatst te worden.
- Frequenties onder de 40 Hz worden afgefilterd met een verval van 6 dB per tertsbands;
- Er worden geen scrim (mesh) doeken voor de geluidsystemen gehangen;
- Gevlogen subwoofers en subwoofers groter dan 21" worden niet gebruikt.

## 6 Meetresultaten

Er is eerst gekeken wat de resultaten van de tijdens het evenement verrichte permanente metingen waren.

Hierbij is specifiek het meetpunt Silodam interessant, aangezien deze zich het meest in de richting van de meeste klachten bevindt.

De metingen bleken laag-frequent sterk beïnvloed door de vrij stevige noordoosten wind tijdens het evenement.

Om deze reden is met de MeTrao Event Noise Management module een continue overdracht berekening uitgevoerd, wat tot het immissie niveau leidt wat daadwerkelijk op het meetpunt door het evenementen geluid is veroorzaakt.

Uit de meetresultaten blijkt dat het evenement voor het overgrote deel (ruim) binnen de gestelde grenswaarden is gebleven op de permanente meetposities.

### 6.1 Meteo

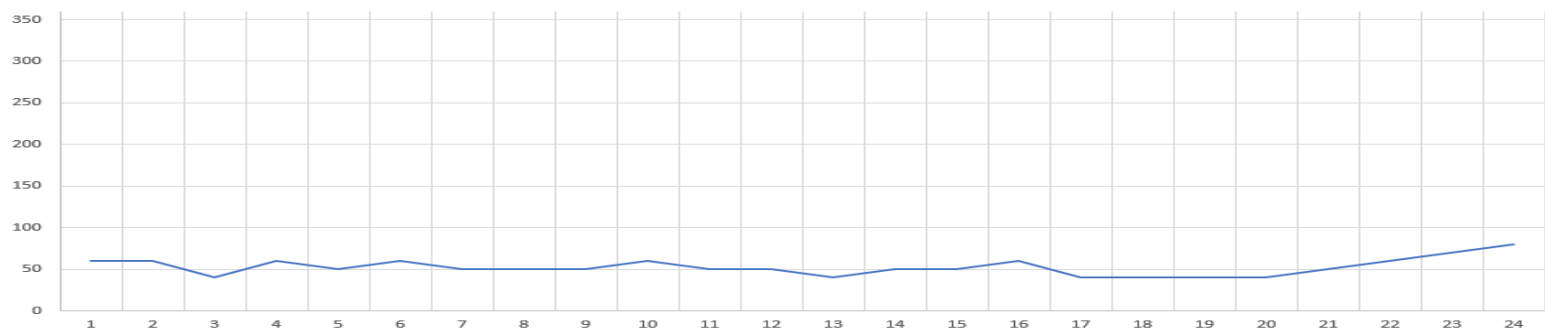
Bij de meetgrafieken zijn grafieken gevoegd die de door het KNMI gemeten meteo omstandigheden (station Schiphol) voor beide dagen weergeven. De metingen tonen aan dat de wind beide dagen noordoost was met snelheden variërend van 4-7 m/s

## 6.2 Meetresultaten Zaterdag 20 April:

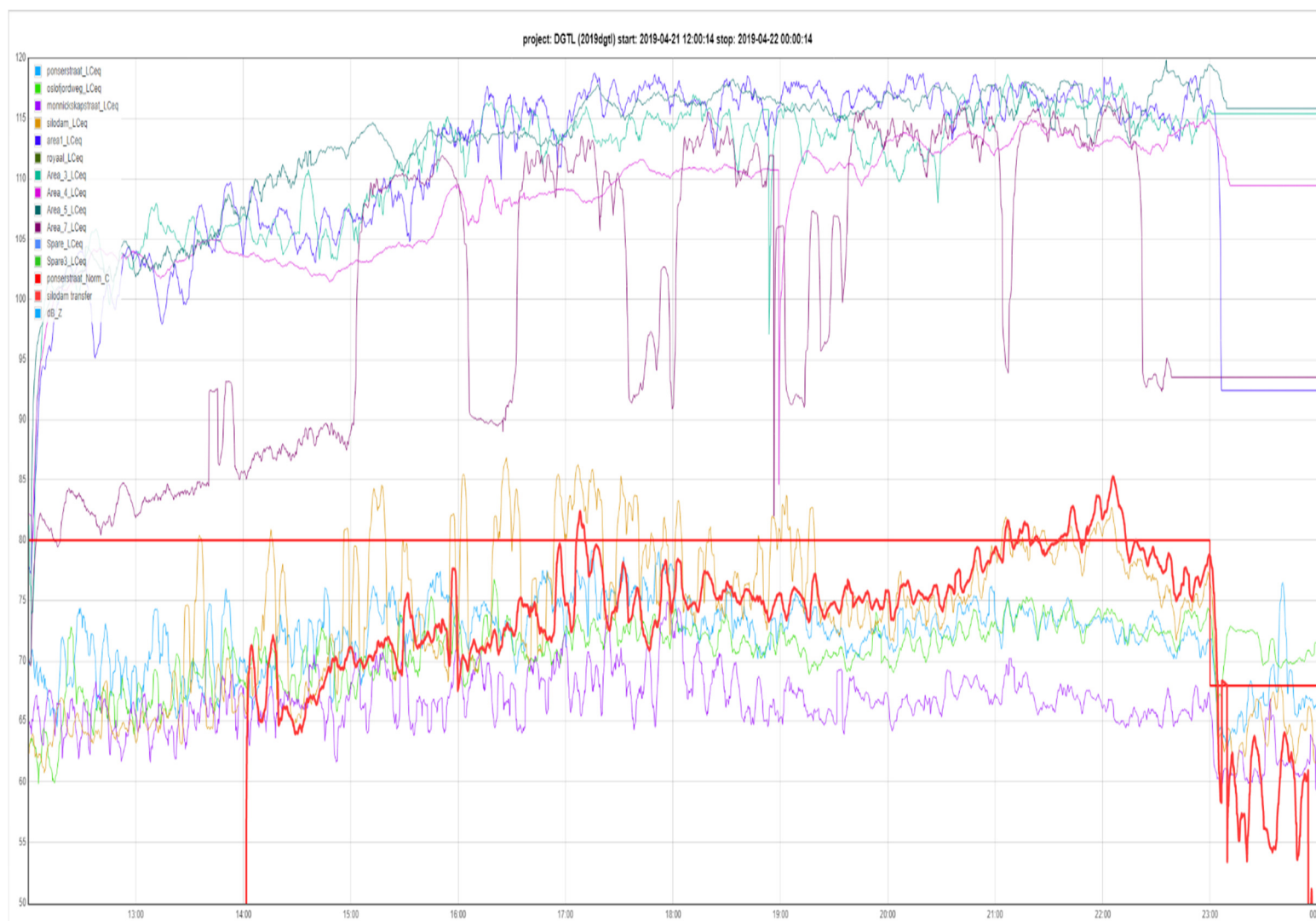
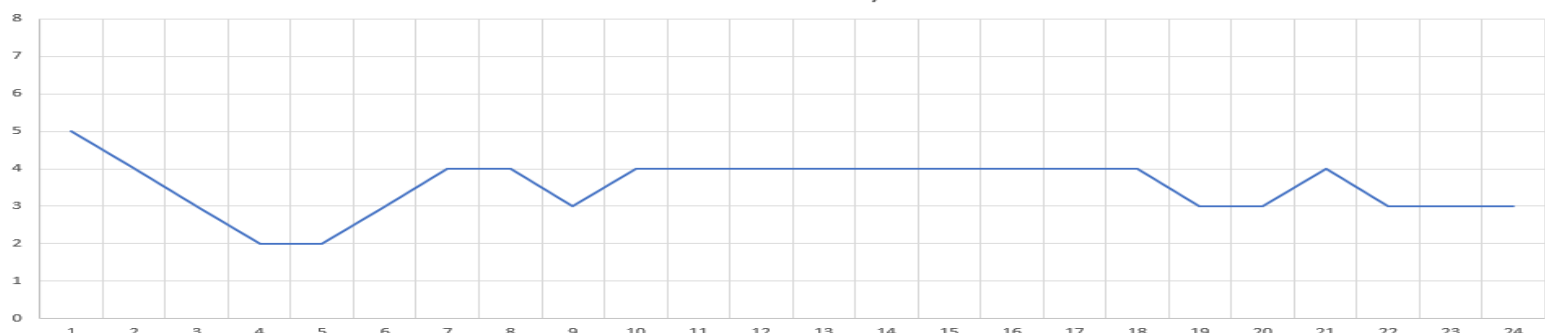


### 6.3 Meetresultaten Zondag 21 April

Windrichting Graden 0= Noord



Windsnelheid m/s



## 7 Berekeningen

Voor de berekeningen zijn spectra bij de podia aangehouden welke gebaseerd zijn op de tijdens het evenement verrichte metingen.

De berekende niveaus op de gevels van woningen betreffen de invallende geluidsniveaus.

### 7.1 Meteo scenario's

Er zijn 3 scenario's uitgerekend;

#### 1 – Berekening omstandigheden

Dit is het standaard Nederlandse berekening scenario. Dit houdt in dat alle beoordelingsposities benedenwinds liggen (wat in de praktijk onmogelijk is) met matige wind, ca 3m/s.

#### 2 – Daadwerkelijk opgetreden wind

Dit is de daadwerkelijke situatie zoals deze tijdens het evenement optrad, Noordoosten wind met 6m/s.

#### 2 – Gangbare wind

Dit het meteo scenario zoals deze de afgelopen jaren doorgaans in optreedt, Zuidwesten wind met 6m/s. Dit scenario is toegevoegd om inzichtelijk te maken wat er nu specifiek anders was vergeleken met evenementen zoals deze de afgelopen ca. 10 jaar plaats vonden op de NDSM.

## 7.2 Berekende ontvangsniveaus

### 7.2.1 Scenario berekening omstandigheden

In onderstaande tabel zijn de berekende equivalente geluidniveaus in dB(A) en dB(C) waarden gegeven op de beoordelingsposities.

|                           | LAeq | LCeq |
|---------------------------|------|------|
| 01_A Silodam              | 61.1 | 78.2 |
| 02_A Containerwoningen    | 62.2 | 76.3 |
| 03_A Ponserstraat 2-30    | 59.7 | 72.8 |
| 04_A Monnikskapstraat     | 57.8 | 75.2 |
| Bosrankstraat 32          | 59.2 | 74.6 |
| BuiksloterbreekA          | 58.1 | 74.4 |
| BuiksloterbreekB          | 54.2 | 68.2 |
| Christoffelkruidstraat 74 | 59.3 | 77.6 |
| Danzigerkade              | 58.7 | 80.4 |
| Fosfaatweg                | 59   | 75.4 |
| Happarandadam             | 58.4 | 80.8 |
| HeggerankwegA             | 52.4 | 66.3 |
| HeggerankwegB             | 52.1 | 67.9 |
| HeggerankwegC             | 51.2 | 66.9 |
| Magdenpalmstraat 5        | 59.7 | 75   |
| Moederkruidstraat 5       | 59.1 | 76.2 |
| Ondinaweg                 | 52.1 | 74.6 |
| Pontsteiger               | 60.5 | 78.4 |
| Scheepsbouwweg            | 60.9 | 75.9 |
| Spaarndammerdijk          | 55.9 | 80.5 |
| Stettineiland             | 58.6 | 79.5 |
| StrekkerwegA              | 54.9 | 72.1 |
| StrekkerwegB              | 53.8 | 75.9 |
| StrekkerwegC              | 61.8 | 78.4 |
| StrekkerwegD              | 55.1 | 73.3 |
| Tasmanstraat              | 55.9 | 76.9 |

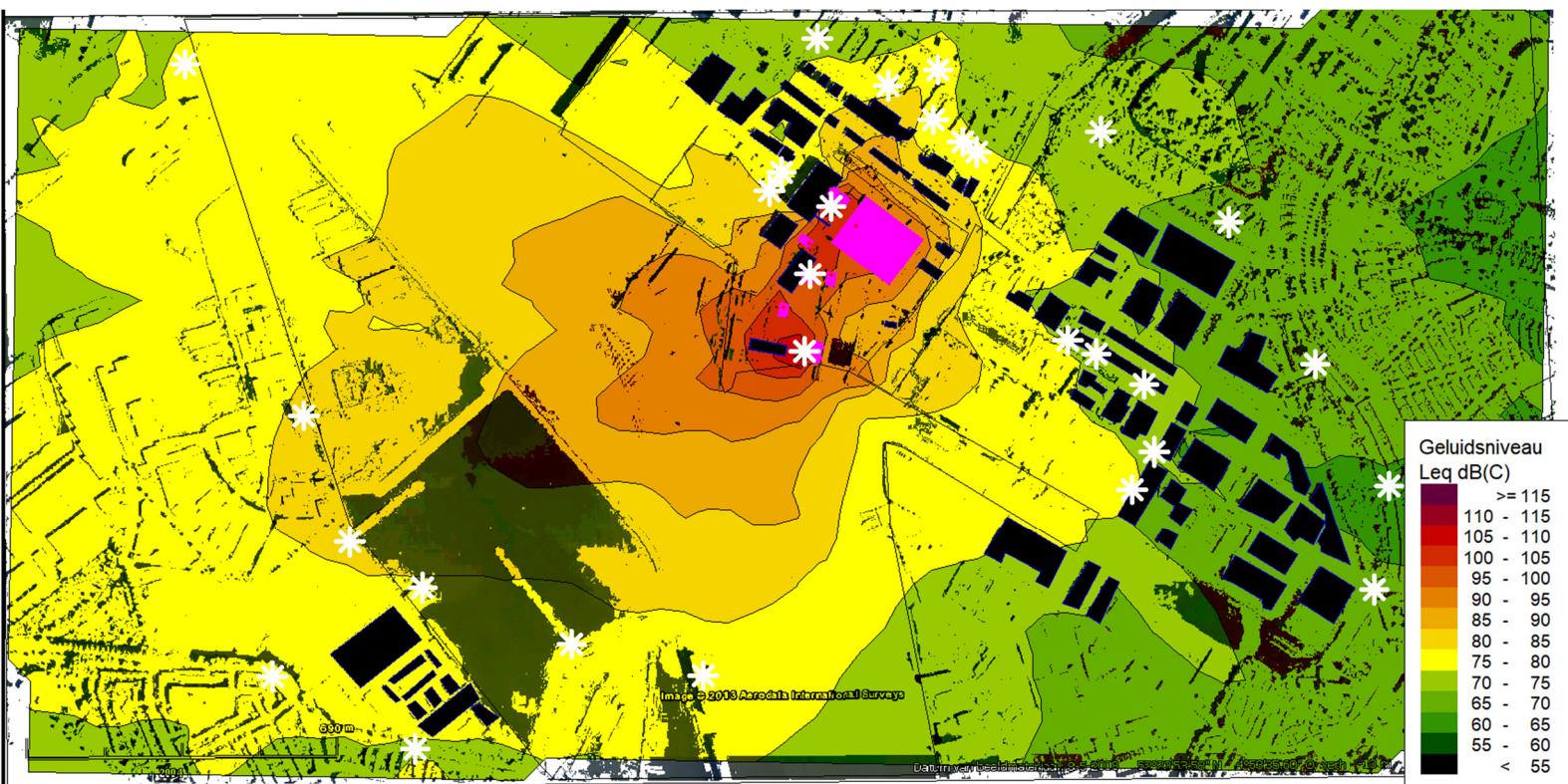
Zoals te zien in de tabel treden er niveaus van maximaal 81dB LCeq op bij dit scenario, waarmee er een zeer lichte overschrijding van 1dB(C) optreedt.

Deze berekende waarden zijn gelijkwaardig met de door Westerveld Advies berekende waarden in het vergunningsaanvraag rapport.

In het Westerveld Advies rapport zijn echter maar voor 4 beoordelingsposities de niveaus berekend en is er ook geen geluidsplot bijgevoegd, waardoor er geen inzicht is over de geluidemissie naar andere plaatsen dan de beoordelingsposities.

Eventuele verschillen zijn verklaarbaar doordat door EventAcoustics de geluidssystemen anders gemodelleerd worden .

Onderstaande figuur laten de geluidsuitstraling naar de omgeving bij dit scenario in dB(C) zien.



### 7.2.2 Scenario daadwerkelijk opgetreden wind

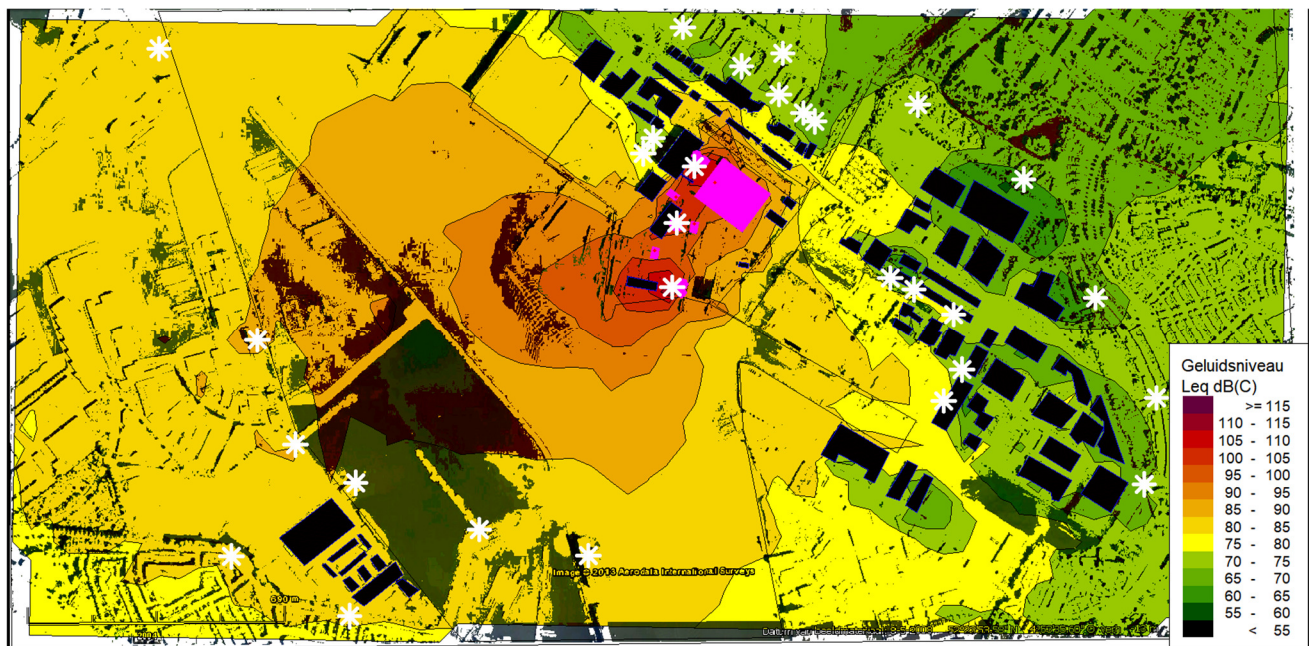
In onderstaande tabel zijn de berekende equivalente geluidniveaus in dB(A) en dB(C) waarden gegeven op de beoordelingsposities.

|                           | <b>LAeq</b> | <b>LCeq</b> |
|---------------------------|-------------|-------------|
| 01_A Silodam              | 60.7        | 81.1        |
| 02_A Containerwoningen    | 54.2        | 76.5        |
| 03_A Ponsersstraat 2-30   | 44.2        | 69.7        |
| 04_A Monnikskapstraat     | 49          | 74.8        |
| Bosrankstraat 32          | 56.6        | 75.3        |
| BuiksloterbreekA          | 44.3        | 72.6        |
| BuiksloterbreekB          | 42.3        | 66.8        |
| Christoffelkruidstraat 74 | 57.9        | 78.2        |
| Danzigerkade              | 59          | 83.1        |
| Fosfaatweg                | 58.3        | 83.2        |
| Happarandadam             | 58.5        | 82.4        |
| HeggerankwegA             | 42.1        | 69.2        |
| HeggerankwegB             | 47.3        | 73.7        |
| HeggerankwegC             | 47.1        | 73.4        |
| Magdenpalmstraat 5        | 52.7        | 73.6        |
| Moederkruidstraat 5       | 53.7        | 75.4        |
| Ondinaweg                 | 48.2        | 74.6        |
| Pontsteiger               | 60.4        | 81.2        |
| Scheepsbouwweg            | 45.6        | 72.1        |
| Spaarndammerdijk          | 55.9        | 81.7        |
| Stettineiland             | 58.8        | 81.8        |
| StrekkerwegA              | 45          | 72.4        |
| StrekkerwegB              | 44.6        | 73.4        |
| StrekkerwegC              | 46.7        | 73.2        |
| StrekkerwegD              | 43.2        | 70.2        |
| Tasmanstraat              | 56          | 80.3        |

Zoals te zien in de tabel treden er niveaus van maximaal 83dB LCeq op bij dit scenario.

Dit is een lichte overschrijding van 3dB(C) van de geldende grenswaarde. Deze overschrijdingen treden op in de Westelijke wijken.

Onderstaande figuur laten de geluidsuitstraling naar de omgeving bij dit scenario in dB(C) zien.



### 7.2.3 Scenario gangbare wind Nederland

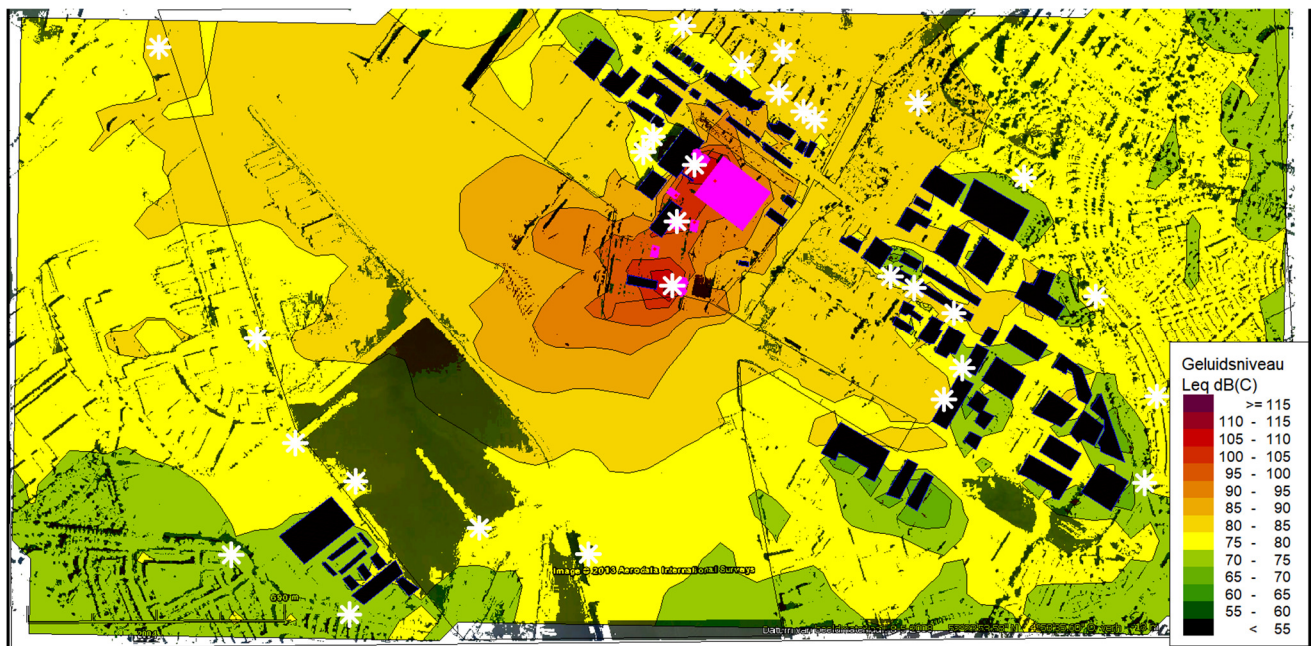
In onderstaande tabel zijn de berekende equivalente geluidniveaus in dB(A) en dB(C) waarden gegeven op de beoordelingsposities.

|                           | LAeq | LCeq |
|---------------------------|------|------|
| 01_A Silodam              | 60.5 | 78.8 |
| 02_A Containerwoningen    | 60.3 | 77.7 |
| 03_A Ponsersstraat 2-30   | 64.5 | 82.2 |
| 04_A Monnikskapstraat     | 59.4 | 82.6 |
| Bosrankstraat 32          | 59.6 | 78.7 |
| BuiksloterbreekA          | 59.1 | 82.3 |
| BuiksloterbreekB          | 55.8 | 79.6 |
| Christoffelkruidstraat 74 | 59.2 | 79.6 |
| Danzigerkade              | 56.1 | 79.8 |
| Fosfaatweg                | 55.1 | 79.5 |
| Happarandadam             | 56.6 | 79.5 |
| HeggerankwegA             | 52.9 | 77.1 |
| HeggerankwegB             | 52.5 | 76.8 |
| HeggerankwegC             | 51.5 | 75.9 |
| Magdenpalmstraat 5        | 60.2 | 80.6 |
| Moederkruidstraat 5       | 60.1 | 81.6 |
| Ondinaweg                 | 50.9 | 75.5 |
| Pontsteiger               | 59.8 | 78.3 |
| Scheepsbouwweg            | 62.3 | 84.6 |
| Spaarndammerdijk          | 48.6 | 73.9 |
| Stettineiland             | 57.2 | 79.4 |
| StrekkerwegA              | 56   | 78.9 |
| StrekkerwegB              | 56.6 | 80.7 |
| StrekkerwegC              | 64.5 | 85.8 |
| StrekkerwegD              | 63.4 | 81.7 |
| Tasmanstraat              | 48.9 | 73.5 |

Zoals te zien in de tabel treden er niveaus van maximaal 86dB LCeq op bij dit scenario.

In dit geval worden de Westelijke wijken "ontzien" en treden de hoge niveaus aan de Noordzijde op.

Onderstaande figuur laten de geluidsuitstraling naar de omgeving bij dit scenario in dB(C) zien.



### 7.3 Vergelijk opgetreden wind met gangbare wind

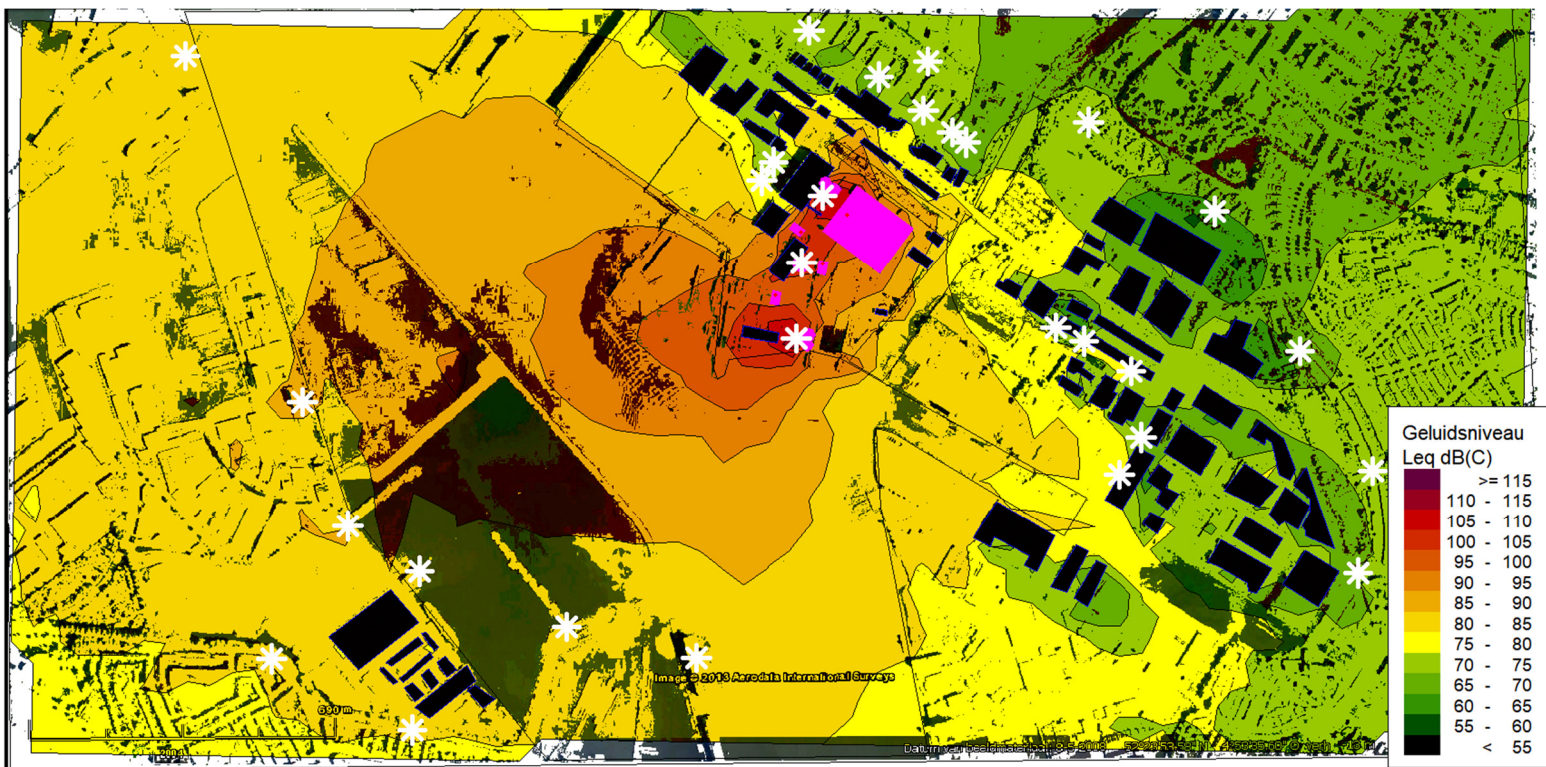
In onderstaande tabellen worden de niveaus vergeleken van de opgetreden meteo situatie met de situatie die doorgaans het geval is;

|                           | Daadwerkelijk |      | Gangbaar |      | Verschil |       |
|---------------------------|---------------|------|----------|------|----------|-------|
|                           | LAeq          | LCeq | LAeq     | LCeq | LAeq     | LCeq  |
| 01_A Silodam              | 60.7          | 81.1 | 60.5     | 78.8 | 0.2      | 2.3   |
| 02_A Containerwoningen    | 54.2          | 76.5 | 60.3     | 77.7 | -6.1     | -1.2  |
| 03_A Ponserstraat 2-30    | 44.2          | 69.7 | 64.5     | 82.2 | -20.3    | -12.5 |
| 04_A Monnikskapstraat     | 49            | 74.8 | 59.4     | 82.6 | -10.4    | -7.8  |
| Bosrankstraat 32          | 56.6          | 75.3 | 59.6     | 78.7 | -3       | -3.4  |
| BuiksloterbreekA          | 44.3          | 72.6 | 59.1     | 82.3 | -14.8    | -9.7  |
| BuiksloterbreekB          | 42.3          | 66.8 | 55.8     | 79.6 | -13.5    | -12.8 |
| Christoffelkruidstraat 74 | 57.9          | 78.2 | 59.2     | 79.6 | -1.3     | -1.4  |
| Danzigerkade              | 59            | 83.1 | 56.1     | 79.8 | 2.9      | 3.3   |
| Fosfaatweg                | 58.3          | 83.2 | 55.1     | 79.5 | 3.2      | 3.7   |
| Happaradadam              | 58.5          | 82.4 | 56.6     | 79.5 | 1.9      | 2.9   |
| HeggerankwegA             | 42.1          | 69.2 | 52.9     | 77.1 | -10.8    | -7.9  |
| HeggerankwegB             | 47.3          | 73.7 | 52.5     | 76.8 | -5.2     | -3.1  |
| HeggerankwegC             | 47.1          | 73.4 | 51.5     | 75.9 | -4.4     | -2.5  |
| Magdenpalmstraat 5        | 52.7          | 73.6 | 60.2     | 80.6 | -7.5     | -7    |
| Moederkruidstraat 5       | 53.7          | 75.4 | 60.1     | 81.6 | -6.4     | -6.2  |
| Ondinaweg                 | 48.2          | 74.6 | 50.9     | 75.5 | -2.7     | -0.9  |
| Pontsteiger               | 60.4          | 81.2 | 59.8     | 78.3 | 0.6      | 2.9   |
| Scheepsbouwweg            | 45.6          | 72.1 | 62.3     | 84.6 | -16.7    | -12.5 |
| Spaarndammerdijk          | 55.9          | 81.7 | 48.6     | 73.9 | 7.3      | 7.8   |
| Stettineiland             | 58.8          | 81.8 | 57.2     | 79.4 | 1.6      | 2.4   |
| StrekkerwegA              | 45            | 72.4 | 56       | 78.9 | -11      | -6.5  |
| StrekkerwegB              | 44.6          | 73.4 | 56.6     | 80.7 | -12      | -7.3  |
| StrekkerwegC              | 46.7          | 73.2 | 64.5     | 85.8 | -17.8    | -12.6 |
| StrekkerwegD              | 43.2          | 70.2 | 63.4     | 81.7 | -20.2    | -11.5 |
| Tasmanstraat              | 56            | 80.3 | 48.9     | 73.5 | 7.1      | 6.8   |

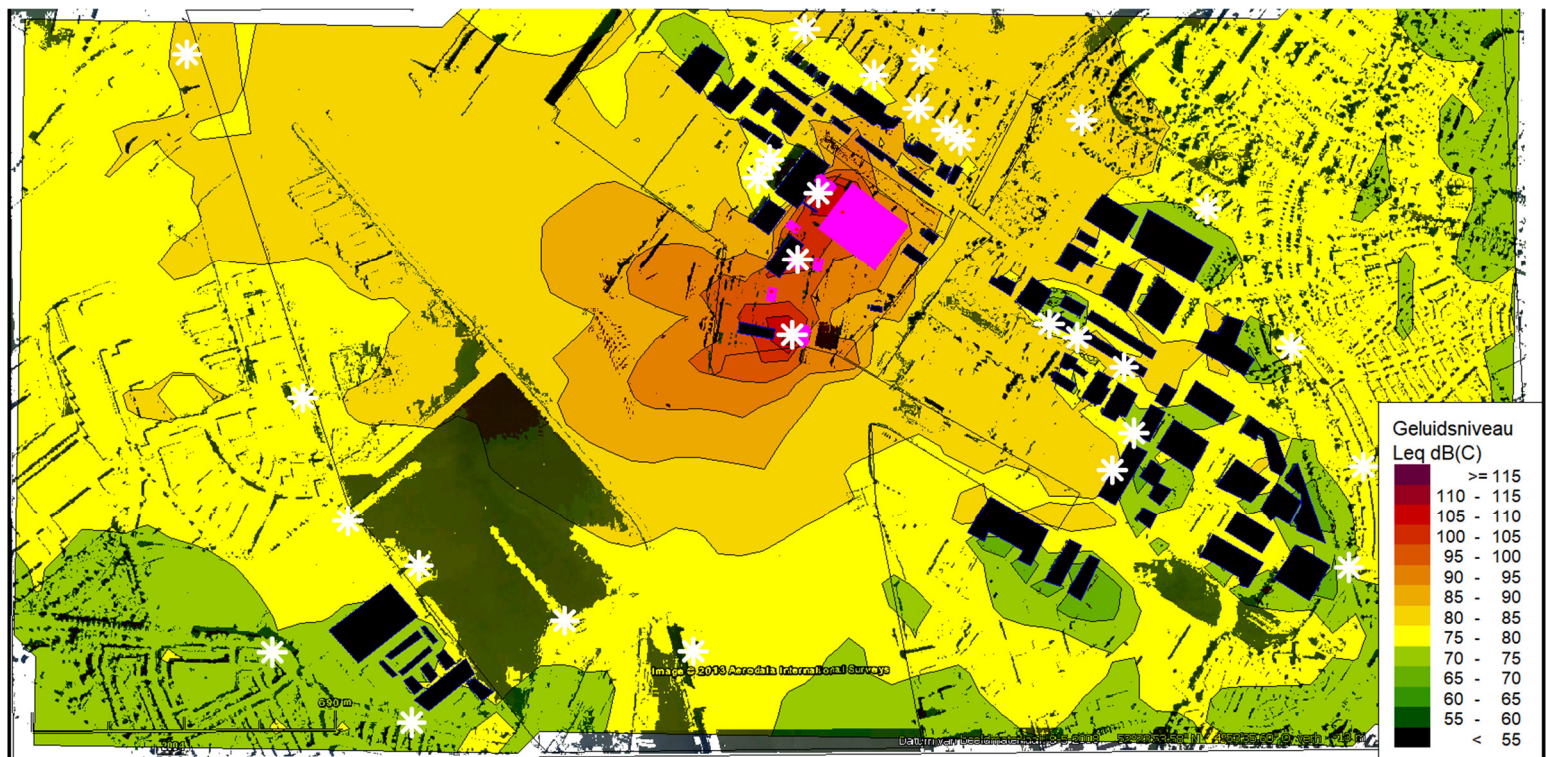
Zoals valt te verwachten zijn de verschillen in de zuidwestelijke richting (Spaarndammerdijk) vrij groot; ca. 8dB(C).

Ook in de richting van Noord zijn de verschillen groot, tot 12dB(C), dat de verschillen in deze richting groter zijn, komt omdat de podia hier vanaf gericht staan.

Daadwerkelijk opgestreden wind:



Gangbare wind:



## 8 Conclusie

In opdracht van de Gemeente Amsterdam is door Event Acoustics BV een akoestische studie verricht voor het "DGTL 2019" evenement, dat plaats heeft gevonden op het NDSM terrein te Amsterdam.

Reden voor het onderzoek was het inventariseren van de door het evenement veroorzaakte optredende geluidsniveaus in de omgeving van het evenement met hierin specifiek meegenomen de meteorologische omstandigheden zoals deze tijdens het evenement optraden. Dit omdat er tijdens het evenement uitzonderlijk veel klachten zijn ingediend door bewoners van bepaalde wijken, met name in de westelijke richting.

De berekeningen tonen aan dat er waarschijnlijk waarden van ca. 83dB(C) zijn opgetreden bij de westelijke wijken (Spaarndammerbuurt, Houthavens, Zeeheldenbuurt), terwijl het evenement op de permanente meetposities vrijwel geheel binnen de grenswaarden is gebleven.

Dit zijn weliswaar waarden die 3dB(C) boven de voor het evenement geldende grenswaarde van 80dBLCeq, 3min. zijn, maar zijn nog steeds 2dB(C) lager dan de absolute bovengrens van 85dBLCeq, 3min. uit het Amsterdamse evenementenbeleid, de grenswaarde die veelvuldig voor evenementen in Amsterdam wordt toegepast en in de praktijk ook veelvuldig optreedt aangezien hier door organisaties op wordt gestuurd.

Wel is het zo dat doordat de wind nu Noordoost was terwijl deze de meeste jaren meestal Zuidwest is, de niveaus bij de westelijke wijken ca. 8dB(C) hoger waren dan andere jaren.

Het gaat echter te ver om van "ongunstige wind" te spreken; bij de gangbare wind van andere jaren worden de bewoners van Noord aan vergelijkbare niveaus blootgesteld. Waarom er dan geen klachtengolven ontstaan vanuit de Noordelijke wijken is onbekend. Hier komt bij dat Noordoosten wind een steeds vaker voorkomend verschijnsel lijkt in Nederland en dat deze situatie dus zeer waarschijnlijk vaker voor gaat komen.

Wat duidelijk mist voor de handhaving is een permanent meetpunt in Westelijke richting; de aanbeveling wordt gedaan om op de Flat Danzigerkade 9 een extra permanent meetpunt te plaatsen.

Hiernaast wordt de aanbeveling gedaan om de bewoners van de Westelijke wijken specifiek voor te lichten wanneer er een evenement is en deze windcondities zich voor doen.

drs. ing. Kees Neervoort,  
audio consultant,  
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15-5-2019, Utrecht

## 9 Bijlagen

## 9.1 Bronvermogens

### NDSM\_groot

#### Octave spectra of the sources in dB(A) - EnvironmentC

**3**

| Group    | Name         | Source type | R'w  | Lw    | 63Hz  | 125Hz | 250Hz | 500Hz | 1kHz  | 2kHz  | 4kHz  | 8kHz  | 16kHz |  |
|----------|--------------|-------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|          |              |             | dB   | dB(A) | dB(C) | dB(C) | dB(C) | dB(C) | dB(C) | dB(C) | dB(C) | dB(C) | dB(C) |  |
| Outdoor3 |              | Area        | 18.0 | 130.  | 126.7 | 116.9 | 108.2 | 98.5  | 92.4  | 86.1  | 78.8  | 68.8  | 51.5  |  |
| Outdoor3 |              | Area        | 18.0 | 128.  | 124.9 | 119.4 | 111.1 | 101.5 | 95.1  | 88.8  | 81.5  | 71.8  | 55.9  |  |
| Outdoor3 |              | Area        | 18.0 | 128.  | 125.3 | 119.4 | 110.9 | 101.1 | 94.7  | 88.4  | 81.1  | 71.2  | 55.0  |  |
| Outdoor3 |              | Area        | 18.0 | 122.  | 119.6 | 114.6 | 107.1 | 97.8  | 91.6  | 85.2  | 77.5  | 66.4  | 47.5  |  |
| Outdoor3 |              | Area        | 18.0 | 135.  | 131.9 | 118.9 | 104.5 | 94.4  | 87.3  | 80.9  | 73.4  | 62.6  | 43.9  |  |
| Tent1    |              | Area        | 0.0  | 136.  | 133.0 | 129.8 | 120.7 | 113.0 | 109.5 | 105.9 | 101.3 | 94.6  | 79.7  |  |
| Tent1    |              | Area        | 18.0 | 135.  | 132.0 | 125.3 | 112.3 | 101.3 | 94.4  | 87.9  | 80.4  | 71.1  | 55.1  |  |
| Tent1    |              | Area        | 18.0 | 135.  | 131.9 | 125.2 | 112.2 | 101.0 | 94.1  | 87.6  | 80.1  | 70.7  | 54.3  |  |
| Tent1    |              | Area        | 18.0 | 129.  | 126.1 | 120.3 | 108.7 | 98.4  | 91.7  | 85.0  | 77.3  | 67.4  | 50.2  |  |
| Tent1    |              | Area        | 18.0 | 137.  | 134.3 | 126.0 | 109.2 | 96.2  | 88.8  | 82.1  | 74.3  | 64.1  | 46.0  |  |
| Indoor2  |              | Area        | 18.0 | 135.  | 131.9 | 119.2 | 106.8 | 98.1  | 91.8  | 85.4  | 77.9  | 67.2  | 48.6  |  |
| Indoor2  |              | Area        | 18.0 | 122.  | 119.6 | 115.5 | 108.6 | 99.9  | 93.4  | 86.9  | 79.4  | 68.6  | 51.1  |  |
| Indoor2  |              | Area        | 18.0 | 127.  | 124.3 | 119.7 | 111.8 | 102.1 | 96.0  | 89.6  | 82.2  | 71.6  | 54.4  |  |
| Indoor2  |              | Area        | 18.0 | 129.  | 126.0 | 120.0 | 112.0 | 102.3 | 96.1  | 89.8  | 82.5  | 72.4  | 56.0  |  |
| Indoor2  |              | Area        | 18.0 | 129.  | 126.5 | 117.4 | 109.5 | 102.0 | 95.7  | 89.3  | 82.1  | 71.9  | 54.6  |  |
| Indoor1  | Facade 1     | Area        | 28.0 | 124.  | 121.6 | 114.3 | 100.0 | 88.6  | 81.3  | 73.8  | 64.1  | 50.3  | 35.6  |  |
| Indoor1  | Facade 2     | Area        | 28.0 | 125.  | 121.9 | 114.4 | 101.3 | 90.8  | 84.1  | 76.8  | 67.6  | 54.6  | 37.0  |  |
| Indoor1  | Facade 3     | Area        | 28.0 | 132.  | 128.5 | 120.5 | 105.4 | 93.6  | 86.8  | 80.0  | 71.9  | 60.8  | 43.1  |  |
| Indoor1  | Facade 4     | Area        | 28.0 | 127.  | 124.4 | 116.9 | 103.2 | 91.5  | 84.8  | 77.7  | 68.7  | 55.3  | 37.3  |  |
| Outdoor1 | Outdoor1_PAL | Point       | 146. | 128.7 | 141.0 | 141.9 | 139.0 | 135.9 | 132.8 | 129.1 | 124.1 | 113.9 |       |  |
| Outdoor1 | Outdoor1_PAR | Point       | 146. | 128.7 | 141.0 | 141.9 | 139.0 | 135.9 | 132.8 | 129.1 | 124.1 | 113.9 |       |  |
| Outdoor1 | Outdoor1_sub | Line        | 150. | 147.6 | 139.5 | 121.9 | 97.9  | 65.5  | 39.8  | 39.2  | 37.0  | 31.0  |       |  |
| Outdoor2 | Outdoor2_PAL | Point       | 132. | 127.2 | 126.2 | 125.4 | 122.1 | 119.4 | 116.3 | 112.6 | 107.6 | 99.0  |       |  |
| Outdoor2 | Outdoor2_PAR | Point       | 132. | 127.2 | 126.2 | 125.4 | 122.1 | 119.4 | 116.3 | 112.6 | 107.6 | 99.0  |       |  |
| Outdoor2 | Outdoor2_sub | Line        | 135. | 132.1 | 124.0 | 106.4 | 82.4  | 50.0  | 24.3  | 23.7  | 21.5  | 15.5  |       |  |
| Outdoor4 | Outdoor4_PAL | Point       | 141. | 124.1 | 136.4 | 137.3 | 134.4 | 131.3 | 128.2 | 124.5 | 119.5 | 109.3 |       |  |
| Outdoor4 | Outdoor4_PAR | Point       | 141. | 124.1 | 136.4 | 137.3 | 134.4 | 131.3 | 128.2 | 124.5 | 119.5 | 109.3 |       |  |
| Outdoor4 | Outdoor4_sub | Line        | 145. | 142.1 | 134.0 | 116.4 | 92.4  | 60.0  | 34.3  | 33.7  | 31.5  | 25.5  |       |  |
| Indoor1  | Roof         | Area        | 28.0 | 137.  | 133.9 | 126.0 | 110.0 | 98.0  | 90.8  | 83.5  | 74.0  | 61.5  | 46.8  |  |

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## 9.2 Overdrachten

**NDSM\_groot**  
**Mean propagation Leq - EnvironmentC**
**10**

| Group    | Source       | Source | Li       | R'w  | L'w   | Lw    | I or A | S      | Adiv   | Agr   | Abar  | Aatm | ADI   | Ls    | Lr    |      |
|----------|--------------|--------|----------|------|-------|-------|--------|--------|--------|-------|-------|------|-------|-------|-------|------|
|          |              |        | dB(A)    | dB   | dB(A) | dB(A) | m,m²   | m      | dB     | dB    | dB    | dB   | dB    | dB(A) | dB(A) |      |
| Tent1    |              | Area   | 116.0    | 0.0  | 113.0 | 136.0 | 200.0  | 1023.2 | -71.2  | -4.6  | 0.0   | -0.1 | -9.1  | 65.5  | 65.5  |      |
| Tent1    |              | Area   | 117.9    | 18.0 | 110.3 | 135.1 | 300.0  | 1005.1 | -71.0  | 3.6   | 0.0   | -0.1 | -10.3 | 57.2  | 57.2  |      |
| Tent1    |              | Area   | 117.8    | 18.0 | 110.3 | 135.0 | 300.0  | 1018.9 | -71.2  | -4.0  | 0.0   | -0.1 | -10.1 | 49.7  | 49.7  |      |
| Tent1    |              | Area   | 113.9    | 18.0 | 106.0 | 129.0 | 200.0  | 1001.1 | -71.0  | 3.5   | 0.0   | -0.1 | -10.1 | 51.3  | 51.3  |      |
| Tent1    |              | Area   | 116.8    | 18.0 | 109.5 | 137.2 | 600.0  | 1012.1 | -71.1  | 0.5   | 0.0   | -0.1 | -9.8  | 62.2  | 62.2  |      |
| Indoor2  |              | Area   | 114.5    | 18.0 | 107.6 | 135.4 | 600.0  | 1137.7 | -72.1  | 0.8   | 0.0   | -0.1 | -10.6 | 53.5  | 53.5  |      |
| Indoor2  |              | Area   | 108.4    | 18.0 | 99.5  | 122.6 | 200.0  | 1126.9 | -72.0  | 3.1   | 0.0   | -0.2 | -9.5  | 44.1  | 44.1  |      |
| Indoor2  |              | Area   | 111.3    | 18.0 | 103.1 | 127.9 | 300.0  | 1144.6 | -72.2  | -3.4  | 0.0   | -0.1 | -9.9  | 42.3  | 42.3  |      |
| Indoor2  |              | Area   | 112.6    | 18.0 | 104.8 | 129.5 | 300.0  | 1131.0 | -72.1  | 3.7   | 0.0   | -0.1 | -10.1 | 50.9  | 50.9  |      |
| Indoor2  |              | Area   | 114.2    | 18.0 | 106.9 | 129.9 | 200.0  | 1148.8 | -72.2  | -3.0  | 0.0   | -0.1 | -10.5 | 44.2  | 44.2  |      |
| Indoor1  | Facade 1     | Area   | 109.3    | 28.0 | 91.9  | 124.7 | 1905.0 | 1294.7 | -73.2  | -4.5  | 0.0   | -0.1 | 0.0   | 49.9  | 49.9  |      |
| Indoor1  | Facade 2     | Area   | 108.6    | 28.0 | 91.2  | 125.0 | 2396.6 | 1334.6 | -73.5  | -4.4  | 0.0   | -0.1 | 0.0   | 50.0  | 50.0  |      |
| Indoor1  | Facade 3     | Area   | 116.3    | 28.0 | 99.1  | 132.0 | 1919.1 | 1251.2 | -72.9  | 3.8   | 0.0   | -0.1 | 0.0   | 65.7  | 65.7  |      |
| Indoor1  | Facade 4     | Area   | 111.1    | 28.0 | 93.8  | 127.7 | 2429.5 | 1212.0 | -72.7  | 3.5   | 0.0   | -0.1 | 0.0   | 61.4  | 61.4  |      |
| Outdoor1 | Outdoor1_PAL | Point  |          |      |       | 146.4 |        | 1027.5 | -71.2  | 2.2   | 0.0   | -1.6 | -10.0 | 65.8  | 65.8  |      |
| Outdoor1 | Outdoor1_PA  | Point  |          |      |       | 146.4 |        | 1012.2 | -71.1  | 2.2   | 0.0   | -1.6 | -10.0 | 66.1  | 66.1  |      |
| Outdoor1 | Outdoor1_sub | Line   |          |      |       | 136.1 | 150.5  | 27.3   | 1019.4 | -71.2 | 4.2   | 0.0  | -0.1  | -4.6  | 78.9  | 78.9 |
| Outdoor2 | Outdoor2_PAL | Point  |          |      |       | 132.3 |        | 1102.9 | -71.8  | -1.9  | 0.0   | -1.3 | -6.6  | 50.5  | 50.5  |      |
| Outdoor2 | Outdoor2_PA  | Point  |          |      |       | 132.3 |        | 1101.3 | -71.8  | -5.3  | 0.0   | -0.5 | -5.9  | 48.7  | 48.7  |      |
| Outdoor2 | Outdoor2_sub | Line   |          |      |       | 127.6 | 135.0  | 5.5    | 1101.7 | -71.8 | -0.9  | 0.0  | -0.1  | -11.9 | 50.3  | 50.3 |
| Outdoor4 | Outdoor4_PAL | Point  |          |      |       | 141.8 |        | 1267.9 | -73.1  | -8.0  | 0.0   | -1.1 | -7.5  | 52.3  | 52.3  |      |
| Outdoor4 | Outdoor4_PA  | Point  |          |      |       | 141.8 |        | 1271.9 | -73.1  | 2.2   | 0.0   | -1.9 | -9.0  | 60.3  | 60.3  |      |
| Outdoor4 | Outdoor4_sub | Line   |          |      |       | 130.7 | 145.0  | 27.2   | 1269.1 | -73.1 | 3.3   | 0.0  | -0.1  | -0.1  | 75.2  | 75.2 |
| Indoor1  | Roof         | Area   | 111.3    | 28.0 | 94.1  | 137.2 | 20505. | 1271.6 | -73.1  | 3.4   | 0.0   | -0.1 | 0.0   | 67.5  | 67.5  |      |
| Receiver | StrekkerwegA |        | Leq 70.6 |      |       | dB(C) |        |        |        |       |       |      |       |       |       |      |
| Outdoor3 |              | Area   | 114.2    | 18.0 | 107.0 | 130.0 | 200.0  | 457.61 | -64.2  | -16.7 | 0.0   | 0.0  | -10.9 | 38.2  | 38.2  |      |
| Outdoor3 |              | Area   | 111.6    | 18.0 | 103.7 | 128.5 | 300.0  | 440.55 | -63.9  | -15.5 | 0.0   | 0.0  | -10.9 | 38.2  | 38.2  |      |
| Outdoor3 |              | Area   | 111.8    | 18.0 | 104.0 | 128.8 | 300.0  | 456.96 | -64.2  | -17.8 | 0.0   | 0.0  | -10.8 | 36.0  | 36.0  |      |
| Outdoor3 |              | Area   | 107.9    | 18.0 | 99.4  | 122.4 | 200.0  | 440.31 | -63.9  | -16.6 | 0.0   | 0.0  | -10.8 | 31.1  | 31.1  |      |
| Outdoor3 |              | Area   | 114.4    | 18.0 | 107.6 | 135.4 | 600.0  | 448.92 | -64.0  | -11.9 | 0.0   | 0.0  | -11.0 | 48.5  | 48.5  |      |
| Tent1    |              | Area   | 116.0    | 0.0  | 113.0 | 136.0 | 200.0  | 593.57 | -66.5  | -16.7 | 0.0   | 0.0  | 0.0   | 52.7  | 52.7  |      |
| Tent1    |              | Area   | 117.9    | 18.0 | 110.3 | 135.1 | 300.0  | 607.81 | -66.7  | -13.2 | 0.0   | 0.0  | 0.0   | 55.1  | 55.1  |      |
| Tent1    |              | Area   | 117.8    | 18.0 | 110.3 | 135.0 | 300.0  | 608.79 | -66.7  | -16.0 | 0.0   | 0.0  | 0.0   | 52.3  | 52.3  |      |
| Tent1    |              | Area   | 113.9    | 18.0 | 106.0 | 129.0 | 200.0  | 623.58 | -66.9  | -15.5 | 0.0   | 0.0  | 0.0   | 46.6  | 46.6  |      |
| Tent1    |              | Area   | 116.8    | 18.0 | 109.5 | 137.2 | 600.0  | 608.42 | -66.7  | -12.5 | 0.0   | 0.0  | 0.0   | 58.0  | 58.0  |      |
| Indoor2  |              | Area   | 114.5    | 18.0 | 107.6 | 135.4 | 600.0  | 535.91 | -65.6  | -13.2 | 0.0   | 0.0  | -0.1  | 56.6  | 56.6  |      |
| Indoor2  |              | Area   | 108.4    | 18.0 | 99.5  | 122.6 | 200.0  | 550.63 | -65.8  | -16.3 | 0.0   | 0.0  | -0.4  | 40.1  | 40.1  |      |
| Indoor2  |              | Area   | 111.3    | 18.0 | 103.1 | 127.9 | 300.0  | 538.09 | -65.6  | -16.0 | 0.0   | 0.0  | -0.5  | 45.8  | 45.8  |      |
| Indoor2  |              | Area   | 112.6    | 18.0 | 104.8 | 129.5 | 300.0  | 533.47 | -65.5  | -14.1 | 0.0   | 0.0  | -0.4  | 49.5  | 49.5  |      |
| Indoor2  |              | Area   | 114.2    | 18.0 | 106.9 | 129.9 | 200.0  | 521.39 | -65.3  | -11.6 | 0.0   | 0.0  | -0.4  | 52.5  | 52.5  |      |
| Indoor1  | Facade 1     | Area   | 109.3    | 28.0 | 91.9  | 124.7 | 1905.0 | 535.25 | -65.6  | -16.1 | 0.0   | 0.0  | 0.0   | 46.4  | 46.4  |      |
| Indoor1  | Facade 2     | Area   | 108.6    | 28.0 | 91.2  | 125.0 | 2396.6 | 428.40 | -63.6  | -4.3  | 0.0   | 0.0  | 0.0   | 60.1  | 60.1  |      |
| Indoor1  | Facade 3     | Area   | 116.3    | 28.0 | 99.1  | 132.0 | 1919.1 | 405.30 | -63.1  | -6.7  | 0.0   | 0.0  | 0.0   | 65.1  | 65.1  |      |
| Indoor1  | Facade 4     | Area   | 111.1    | 28.0 | 93.8  | 127.7 | 2429.5 | 506.25 | -65.1  | -18.1 | 0.0   | 0.0  | 0.0   | 47.4  | 47.4  |      |
| Outdoor1 | Outdoor1_PAL | Point  |          |      |       | 146.4 |        | 686.74 | -67.7  | -20.8 | 0.0   | -1.4 | -6.2  | 50.3  | 50.3  |      |
| Outdoor1 | Outdoor1_PA  | Point  |          |      |       | 146.4 |        | 710.80 | -68.0  | -21.4 | 0.0   | -1.6 | -6.4  | 49.0  | 49.0  |      |
| Outdoor1 | Outdoor1_sub | Line   |          |      |       | 136.1 | 150.5  | 27.3   | 698.09 | -67.9 | -17.5 | 0.0  | 0.0   | -14.2 | 50.9  | 50.9 |
| Outdoor2 | Outdoor2_PAL | Point  |          |      |       | 132.3 |        | 531.47 | -65.5  | -22.8 | 0.0   | -0.1 | -0.5  | 43.3  | 43.3  |      |
| Outdoor2 | Outdoor2_PA  | Point  |          |      |       | 132.3 |        | 528.52 | -65.5  | -24.2 | 0.0   | -0.2 | -0.6  | 41.9  | 41.9  |      |
| Outdoor2 | Outdoor2_sub | Line   |          |      |       | 127.6 | 135.0  | 5.5    | 530.44 | -65.5 | -14.3 | 0.0  | 0.0   | -0.5  | 54.6  | 54.6 |
| Outdoor4 | Outdoor4_PAL | Point  |          |      |       | 141.8 |        | 345.28 | -61.8  | -30.2 | 0.0   | -0.6 | -13.6 | 35.6  | 35.6  |      |
| Outdoor4 | Outdoor4_PA  | Point  |          |      |       | 141.8 |        | 362.47 | -62.2  | -26.8 | 0.0   | -0.4 | -10.9 | 41.5  | 41.5  |      |
| Outdoor4 | Outdoor4_sub | Line   |          |      |       | 130.7 | 145.0  | 27.2   | 353.86 | -62.0 | -14.4 | 0.0  | 0.0   | -12.0 | 56.6  | 56.6 |
| Indoor1  | Roof         | Area   | 111.3    | 28.0 | 94.1  | 137.2 | 20505. | 464.38 | -64.3  | -7.1  | 0.0   | 0.0  | 0.0   | 65.7  | 65.7  |      |
| Receiver | StrekkerwegB |        | Leq 73.1 |      |       | dB(C) |        |        |        |       |       |      |       |       |       |      |
| Outdoor3 |              | Area   | 114.2    | 18.0 | 107.0 | 130.0 | 200.0  | 392.93 | -62.9  | -12.4 | 0.0   | 0.0  | -10.7 | 44.1  | 44.1  |      |
| Outdoor3 |              | Area   | 111.6    | 18.0 | 103.7 | 128.5 | 300.0  | 380.28 | -62.6  | -16.8 | 0.0   | 0.0  | -10.5 | 38.5  | 38.5  |      |
| Outdoor3 |              | Area   | 111.8    | 18.0 | 104.0 | 128.8 | 300.0  | 399.98 | -63.0  | -22.4 | 0.0   | 0.0  | -10.2 | 34.0  | 34.0  |      |

Event Acoustics Proostwetering 50 NL-3543 AH Utrecht NETHERLANDS

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## NDSM\_groot Mean propagation Leq - EnvironmentC

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| Group                                | Source       | Source | Li    | Rw   | L'w   | Lw    | I or A  | S      | Adiv  | Agr   | Abar | Aatm | ADI   | Ls    | Lr    |  |
|--------------------------------------|--------------|--------|-------|------|-------|-------|---------|--------|-------|-------|------|------|-------|-------|-------|--|
|                                      |              |        | dB(A) | dB   | dB(A) | dB(A) | m,m²    | m      | dB    | dB    | dB   | dB   | dB    | dB(A) | dB(A) |  |
| Outdoor3                             |              | Area   | 107.9 | 18.0 | 99.4  | 122.4 | 200.0   | 387.40 | -62.8 | -22.3 | 0.0  | 0.0  | -10.1 | 27.2  | 27.2  |  |
| Outdoor3                             |              | Area   | 114.4 | 18.0 | 107.6 | 135.4 | 600.0   | 390.16 | -62.8 | -18.2 | 0.0  | 0.0  | -10.9 | 43.5  | 43.5  |  |
| Tent1                                |              | Area   | 116.0 | 0.0  | 113.0 | 136.0 | 200.0   | 536.86 | -65.6 | -11.8 | 0.0  | 0.0  | -0.6  | 58.0  | 58.0  |  |
| Tent1                                |              | Area   | 117.9 | 18.0 | 110.3 | 135.1 | 300.0   | 553.80 | -65.9 | -14.1 | 0.0  | 0.0  | -0.6  | 54.5  | 54.5  |  |
| Tent1                                |              | Area   | 117.8 | 18.0 | 110.3 | 135.0 | 300.0   | 548.43 | -65.8 | -7.6  | 0.0  | 0.0  | -0.5  | 61.1  | 61.1  |  |
| Tent1                                |              | Area   | 113.9 | 18.0 | 106.0 | 129.0 | 200.0   | 565.86 | -66.0 | -12.6 | 0.0  | 0.0  | -0.5  | 49.9  | 49.9  |  |
| Tent1                                |              | Area   | 116.8 | 18.0 | 109.5 | 137.2 | 600.0   | 551.44 | -65.8 | -8.7  | 0.0  | 0.0  | -0.6  | 62.1  | 62.1  |  |
| Indoor2                              |              | Area   | 114.5 | 18.0 | 107.6 | 135.4 | 600.0   | 449.24 | -64.0 | -14.2 | 0.0  | 0.0  | -0.6  | 56.6  | 56.6  |  |
| Indoor2                              |              | Area   | 108.4 | 18.0 | 99.5  | 122.6 | 200.0   | 464.39 | -64.3 | -10.7 | 0.0  | 0.0  | -0.1  | 47.4  | 47.4  |  |
| Indoor2                              |              | Area   | 111.3 | 18.0 | 103.1 | 127.9 | 300.0   | 447.88 | -64.0 | -13.3 | 0.0  | 0.0  | -0.1  | 50.4  | 50.4  |  |
| Indoor2                              |              | Area   | 112.6 | 18.0 | 104.8 | 129.5 | 300.0   | 450.11 | -64.1 | -10.0 | 0.0  | 0.0  | -0.2  | 55.3  | 55.3  |  |
| Indoor2                              |              | Area   | 114.2 | 18.0 | 106.9 | 129.9 | 200.0   | 434.54 | -63.8 | -12.6 | 0.0  | 0.0  | -0.1  | 53.4  | 53.4  |  |
| Indoor1                              | Facade 1     | Area   | 109.3 | 28.0 | 91.9  | 124.7 | 1905.0  | 393.50 | -62.9 | -17.8 | 0.0  | 0.0  | 0.0   | 47.3  | 47.3  |  |
| Indoor1                              | Facade 2     | Area   | 108.6 | 28.0 | 91.2  | 125.0 | 2396.6  | 291.74 | -60.3 | -7.3  | 0.0  | 0.0  | 0.0   | 61.1  | 61.1  |  |
| Indoor1                              | Facade 3     | Area   | 116.3 | 28.0 | 99.1  | 132.0 | 1919.1  | 303.68 | -60.6 | -8.5  | 0.0  | 0.0  | 0.0   | 67.7  | 67.7  |  |
| Indoor1                              | Facade 4     | Area   | 111.1 | 28.0 | 93.8  | 127.7 | 2429.5  | 400.77 | -63.1 | -19.1 | 0.0  | 0.0  | 0.0   | 48.7  | 48.7  |  |
| Outdoor1                             | Outdoor1_PAL | Point  |       |      | 146.4 | 146.4 |         | 603.62 | -66.6 | -25.1 | 0.0  | -1.6 | -6.7  | 46.4  | 46.4  |  |
| Outdoor1                             | Outdoor1_PA  | Point  |       |      | 146.4 | 146.4 |         | 627.76 | -66.9 | -25.4 | 0.0  | -1.7 | -7.4  | 44.8  | 44.8  |  |
| Outdoor1                             | Outdoor1_sub | Line   |       |      | 136.1 | 150.5 | 27.3    | 615.14 | -66.8 | -16.6 | 0.0  | 0.0  | -15.7 | 51.4  | 51.4  |  |
| Outdoor2                             | Outdoor2_PAL | Point  |       |      | 132.3 | 132.3 |         | 461.38 | -64.3 | -14.0 | 0.0  | -0.1 | 0.0   | 54.0  | 54.0  |  |
| Outdoor2                             | Outdoor2_PA  | Point  |       |      | 132.3 | 132.3 |         | 460.22 | -64.3 | -19.3 | 0.0  | -0.1 | 0.0   | 48.6  | 48.6  |  |
| Outdoor2                             | Outdoor2_sub | Line   |       |      | 127.6 | 135.0 | 5.5     | 461.29 | -64.3 | -8.9  | 0.0  | 0.0  | 0.0   | 61.8  | 61.8  |  |
| Outdoor4                             | Outdoor4_PAL | Point  |       |      | 141.8 | 141.8 |         | 267.44 | -59.5 | -33.9 | 0.0  | -0.4 | -12.4 | 35.5  | 35.5  |  |
| Outdoor4                             | Outdoor4_PA  | Point  |       |      | 141.8 | 141.8 |         | 273.03 | -59.7 | -26.7 | 0.0  | -0.2 | -8.7  | 46.5  | 46.5  |  |
| Outdoor4                             | Outdoor4_sub | Line   |       |      | 130.7 | 145.0 | 27.2    | 270.71 | -59.6 | -10.3 | 0.0  | 0.0  | -11.6 | 63.4  | 63.4  |  |
| Indoor1                              | Roof         | Area   | 111.3 | 28.0 | 94.1  | 137.2 | 20505.0 | 341.68 | -61.7 | -10.6 | 0.0  | 0.0  | 0.0   | 65.5  | 65.5  |  |
| Receiver StrekkerwegC Leq 72.5 dB(C) |              |        |       |      |       |       |         |        |       |       |      |      |       |       |       |  |
| Outdoor3                             |              | Area   | 114.2 | 18.0 | 107.0 | 130.0 | 200.0   | 389.01 | -62.8 | -4.8  | 0.0  | 0.0  | -9.3  | 57.7  | 57.7  |  |
| Outdoor3                             |              | Area   | 111.6 | 18.0 | 103.7 | 128.5 | 300.0   | 381.25 | -62.6 | -7.3  | 0.0  | 0.0  | -9.0  | 49.8  | 49.8  |  |
| Outdoor3                             |              | Area   | 111.8 | 18.0 | 104.0 | 128.8 | 300.0   | 401.08 | -63.1 | -9.0  | 0.0  | 0.0  | -9.0  | 49.3  | 49.3  |  |
| Outdoor3                             |              | Area   | 107.9 | 18.0 | 99.4  | 122.4 | 200.0   | 393.25 | -62.9 | -10.8 | 0.0  | 0.0  | -8.7  | 40.3  | 40.3  |  |
| Outdoor3                             |              | Area   | 114.4 | 18.0 | 107.6 | 135.4 | 600.0   | 391.08 | -62.8 | -7.3  | 0.0  | 0.0  | -9.9  | 56.0  | 56.0  |  |
| Tent1                                |              | Area   | 116.0 | 0.0  | 113.0 | 136.0 | 200.0   | 526.02 | -65.4 | -12.6 | 0.0  | 0.0  | -1.7  | 56.3  | 56.3  |  |
| Tent1                                |              | Area   | 117.9 | 18.0 | 110.3 | 135.1 | 300.0   | 543.77 | -65.7 | -15.0 | 0.0  | 0.0  | -1.8  | 52.5  | 52.5  |  |
| Tent1                                |              | Area   | 117.8 | 18.0 | 110.3 | 135.0 | 300.0   | 533.95 | -65.5 | -9.9  | 0.0  | 0.0  | -1.6  | 57.9  | 57.9  |  |
| Tent1                                |              | Area   | 113.9 | 18.0 | 106.0 | 129.0 | 200.0   | 552.42 | -65.8 | -14.8 | 0.0  | 0.0  | -1.6  | 46.7  | 46.7  |  |
| Tent1                                |              | Area   | 116.8 | 18.0 | 109.5 | 137.2 | 600.0   | 539.48 | -65.6 | -11.2 | 0.0  | 0.0  | -1.8  | 58.6  | 58.6  |  |
| Indoor2                              |              | Area   | 114.5 | 18.0 | 107.6 | 135.4 | 600.0   | 421.94 | -63.5 | -11.5 | 0.0  | 0.0  | -2.1  | 58.5  | 58.5  |  |
| Indoor2                              |              | Area   | 108.4 | 18.0 | 99.5  | 122.6 | 200.0   | 435.54 | -63.8 | -16.9 | 0.0  | 0.0  | -1.1  | 41.0  | 41.0  |  |
| Indoor2                              |              | Area   | 111.3 | 18.0 | 103.1 | 127.9 | 300.0   | 417.21 | -63.4 | -13.9 | 0.0  | 0.0  | -1.0  | 49.8  | 49.8  |  |
| Indoor2                              |              | Area   | 112.6 | 18.0 | 104.8 | 129.5 | 300.0   | 425.33 | -63.6 | -15.9 | 0.0  | 0.0  | -1.3  | 48.8  | 48.8  |  |
| Indoor2                              |              | Area   | 114.2 | 18.0 | 106.9 | 129.9 | 200.0   | 407.87 | -63.2 | -13.8 | 0.0  | 0.0  | -1.2  | 51.8  | 51.8  |  |
| Indoor1                              | Facade 1     | Area   | 109.3 | 28.0 | 91.9  | 124.7 | 1905.0  | 317.39 | -61.0 | -20.1 | 0.0  | 0.0  | 0.0   | 46.7  | 46.7  |  |
| Indoor1                              | Facade 2     | Area   | 108.6 | 28.0 | 91.2  | 125.0 | 2396.6  | 236.86 | -58.5 | -2.6  | 0.0  | 0.0  | 0.0   | 67.0  | 67.0  |  |
| Indoor1                              | Facade 3     | Area   | 116.3 | 28.0 | 99.1  | 132.0 | 1919.1  | 282.70 | -60.0 | -17.1 | 0.0  | 0.0  | 0.0   | 57.9  | 57.9  |  |
| Indoor1                              | Facade 4     | Area   | 111.1 | 28.0 | 93.8  | 127.7 | 2429.5  | 360.99 | -62.1 | -20.1 | 0.0  | 0.0  | 0.0   | 48.5  | 48.5  |  |
| Outdoor1                             | Outdoor1_PAL | Point  |       |      | 146.4 | 146.4 |         | 568.33 | -66.1 | -22.7 | 0.0  | -1.1 | -7.0  | 50.5  | 50.5  |  |
| Outdoor1                             | Outdoor1_PA  | Point  |       |      | 146.4 | 146.4 |         | 591.38 | -66.4 | -22.4 | 0.0  | -1.2 | -7.7  | 49.8  | 49.8  |  |
| Outdoor1                             | Outdoor1_sub | Line   |       |      | 136.1 | 150.5 | 27.3    | 579.56 | -66.3 | -12.5 | 0.0  | 0.0  | -16.9 | 55.4  | 55.4  |  |
| Outdoor2                             | Outdoor2_PAL | Point  |       |      | 132.3 | 132.3 |         | 445.99 | -64.0 | -15.8 | 0.0  | -0.2 | 0.0   | 52.3  | 52.3  |  |
| Outdoor2                             | Outdoor2_PA  | Point  |       |      | 132.3 | 132.3 |         | 446.37 | -64.0 | -16.3 | 0.0  | -0.2 | 0.0   | 51.9  | 51.9  |  |
| Outdoor2                             | Outdoor2_sub | Line   |       |      | 127.6 | 135.0 | 5.5     | 446.66 | -64.0 | -15.8 | 0.0  | 0.0  | 0.0   | 55.2  | 55.2  |  |
| Outdoor4                             | Outdoor4_PAL | Point  |       |      | 141.8 | 141.8 |         | 274.54 | -59.8 | -29.3 | 0.0  | -0.2 | -8.2  | 44.8  | 44.8  |  |
| Outdoor4                             | Outdoor4_PA  | Point  |       |      | 141.8 | 141.8 |         | 268.68 | -59.6 | -27.2 | 0.0  | -0.2 | -7.2  | 47.8  | 47.8  |  |
| Outdoor4                             | Outdoor4_sub | Line   |       |      | 130.7 | 145.0 | 27.2    | 272.30 | -59.7 | -9.2  | 0.0  | 0.0  | -11.9 | 64.4  | 64.4  |  |
| Indoor1                              | Roof         | Area   | 111.3 | 28.0 | 94.1  | 137.2 | 20505.0 | 292.71 | -60.3 | -11.4 | 0.0  | 0.0  | 0.0   | 65.6  | 65.6  |  |
| Receiver StrekkerwegD Leq 69.6 dB(C) |              |        |       |      |       |       |         |        |       |       |      |      |       |       |       |  |
| Outdoor3                             |              | Area   | 114.2 | 18.0 | 107.0 | 130.0 | 200.0   | 408.18 | -63.2 | -12.2 | 0.0  | 0.0  | -7.9  | 50.4  | 50.4  |  |

Event Acoustics Proostwetering 50 NL-3543 AH Utrecht NETHERLANDS

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## NDSM\_groot

### Mean propagation Leq - EnvironmentC

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| Group                 | Source       | Source | Li             | Rw   | L'w   | Lw    | I or A           | S      | Adiv  | Agr   | Abar | Aatm | ADI   | Ls    | Lr    |  |
|-----------------------|--------------|--------|----------------|------|-------|-------|------------------|--------|-------|-------|------|------|-------|-------|-------|--|
|                       |              |        | dB(A)          | dB   | dB(A) | dB(A) | m,m <sup>2</sup> | m      | dB    | dB    | dB   | dB   | dB    | dB(A) | dB(A) |  |
| Outdoor3              |              | Area   | 111.6          | 18.0 | 103.7 | 128.5 | 300.0            | 403.89 | -63.1 | -12.7 | 0.0  | 0.0  | -7.6  | 46.6  | 46.6  |  |
| Outdoor3              |              | Area   | 111.8          | 18.0 | 104.0 | 128.8 | 300.0            | 422.77 | -63.5 | -10.3 | 0.0  | 0.0  | -7.7  | 48.3  | 48.3  |  |
| Outdoor3              |              | Area   | 107.9          | 18.0 | 99.4  | 122.4 | 200.0            | 418.38 | -63.4 | -12.2 | 0.0  | 0.0  | -7.4  | 39.5  | 39.5  |  |
| Outdoor3              |              | Area   | 114.4          | 18.0 | 107.6 | 135.4 | 600.0            | 413.42 | -63.3 | -12.8 | 0.0  | 0.0  | -8.6  | 52.6  | 52.6  |  |
| Tent1                 |              | Area   | 116.0          | 0.0  | 113.0 | 136.0 | 200.0            | 535.46 | -65.6 | -14.6 | 0.0  | 0.0  | -2.9  | 53.4  | 53.4  |  |
| Tent1                 |              | Area   | 117.9          | 18.0 | 110.3 | 135.1 | 300.0            | 553.35 | -65.9 | -10.5 | 0.0  | 0.0  | -2.9  | 55.9  | 55.9  |  |
| Tent1                 |              | Area   | 117.8          | 18.0 | 110.3 | 135.0 | 300.0            | 541.20 | -65.7 | -12.4 | 0.0  | 0.0  | -2.7  | 54.5  | 54.5  |  |
| Tent1                 |              | Area   | 113.9          | 18.0 | 106.0 | 129.0 | 200.0            | 559.44 | -65.9 | -10.8 | 0.0  | 0.0  | -2.7  | 49.7  | 49.7  |  |
| Tent1                 |              | Area   | 116.8          | 18.0 | 109.5 | 137.2 | 600.0            | 547.40 | -65.8 | -12.9 | 0.0  | 0.0  | -2.9  | 55.9  | 55.9  |  |
| Indoor2               |              | Area   | 114.5          | 18.0 | 107.6 | 135.4 | 600.0            | 423.68 | -63.5 | -16.5 | 0.0  | 0.0  | -3.6  | 52.1  | 52.1  |  |
| Indoor2               |              | Area   | 108.4          | 18.0 | 99.5  | 122.6 | 200.0            | 436.42 | -63.8 | -12.2 | 0.0  | 0.0  | -2.3  | 44.4  | 44.4  |  |
| Indoor2               |              | Area   | 111.3          | 18.0 | 103.1 | 127.9 | 300.0            | 417.72 | -63.4 | -16.4 | 0.0  | 0.0  | -2.2  | 46.0  | 46.0  |  |
| Indoor2               |              | Area   | 112.6          | 18.0 | 104.8 | 129.5 | 300.0            | 428.95 | -63.6 | -10.8 | 0.0  | 0.0  | -2.6  | 52.8  | 52.8  |  |
| Indoor2               |              | Area   | 114.2          | 18.0 | 106.9 | 129.9 | 200.0            | 411.50 | -63.3 | -15.9 | 0.0  | 0.0  | -2.6  | 48.5  | 48.5  |  |
| Indoor1               | Facade 1     | Area   | 109.3          | 28.0 | 91.9  | 124.7 | 1905.0           | 288.90 | -60.2 | -21.6 | 0.0  | 0.0  | 0.0   | 45.9  | 45.9  |  |
| Indoor1               | Facade 2     | Area   | 108.6          | 28.0 | 91.2  | 125.0 | 2396.6           | 231.02 | -58.3 | -10.9 | 0.0  | 0.0  | 0.0   | 60.7  | 60.7  |  |
| Indoor1               | Facade 3     | Area   | 116.3          | 28.0 | 99.1  | 132.0 | 1919.1           | 300.60 | -60.6 | -20.0 | 0.0  | 0.0  | 0.0   | 55.1  | 55.1  |  |
| Indoor1               | Facade 4     | Area   | 111.1          | 28.0 | 93.8  | 127.7 | 2429.5           | 356.72 | -62.0 | -21.5 | 0.0  | 0.0  | 0.0   | 47.3  | 47.3  |  |
| Outdoor1              | Outdoor1_PAL | Point  |                |      | 146.4 | 146.4 |                  | 560.34 | -66.0 | -25.6 | 0.0  | -2.3 | -8.9  | 43.5  | 43.5  |  |
| Outdoor1              | Outdoor1_PA  | Point  |                |      | 146.4 | 146.4 |                  | 582.08 | -66.3 | -26.0 | 0.0  | -2.4 | -9.3  | 42.3  | 42.3  |  |
| Outdoor1              | Outdoor1_sub | Line   |                |      | 136.1 | 150.5 | 27.3             | 571.03 | -66.1 | -10.5 | 0.0  | 0.0  | -17.7 | 56.2  | 56.2  |  |
| Outdoor2              | Outdoor2_PAL | Point  |                |      | 132.3 | 132.3 |                  | 455.35 | -64.2 | -19.0 | 0.0  | -0.1 | -0.1  | 50.2  | 50.2  |  |
| Outdoor2              | Outdoor2_PA  | Point  |                |      | 132.3 | 132.3 |                  | 456.72 | -64.2 | -19.2 | 0.0  | -0.2 | -0.1  | 50.5  | 50.5  |  |
| Outdoor2              | Outdoor2_sub | Line   |                |      | 127.6 | 135.0 | 5.5              | 456.49 | -64.2 | -18.4 | 0.0  | 0.0  | 0.0   | 53.9  | 53.9  |  |
| Outdoor4              | Outdoor4_PAL | Point  |                |      | 141.8 | 141.8 |                  | 308.38 | -60.8 | -30.1 | 0.0  | -0.4 | -7.7  | 42.9  | 42.9  |  |
| Outdoor4              | Outdoor4_PA  | Point  |                |      | 141.8 | 141.8 |                  | 296.54 | -60.4 | -27.8 | 0.0  | -0.3 | -7.7  | 45.5  | 45.5  |  |
| Outdoor4              | Outdoor4_sub | Line   |                |      | 130.7 | 145.0 | 27.2             | 303.19 | -60.6 | -10.2 | 0.0  | 0.0  | -12.1 | 62.4  | 62.4  |  |
| Indoor1               | Roof         | Area   | 111.3          | 28.0 | 94.1  | 137.2 | 20505.           | 287.62 | -60.2 | -13.7 | 0.0  | 0.0  | 0.0   | 63.9  | 63.9  |  |
| Receiver Tasmanstraat |              |        | Leq 80.6 dB(C) |      |       |       |                  |        |       |       |      |      |       |       |       |  |
| Outdoor3              |              | Area   | 114.2          | 18.0 | 107.0 | 130.0 | 200.0            | 1423.4 | -74.1 | 3.8   | 0.0  | -0.1 | -9.4  | 50.3  | 50.3  |  |
| Outdoor3              |              | Area   | 111.6          | 18.0 | 103.7 | 128.5 | 300.0            | 1433.7 | -74.1 | 0.3   | 0.0  | -0.1 | -8.9  | 46.1  | 46.1  |  |
| Outdoor3              |              | Area   | 111.8          | 18.0 | 104.0 | 128.8 | 300.0            | 1413.7 | -74.0 | 6.1   | 0.0  | -0.1 | -9.2  | 51.7  | 51.7  |  |
| Outdoor3              |              | Area   | 107.9          | 18.0 | 99.4  | 122.4 | 200.0            | 1424.0 | -74.1 | 0.0   | 0.0  | -0.1 | -8.4  | 40.2  | 40.2  |  |
| Outdoor3              |              | Area   | 114.4          | 18.0 | 107.6 | 135.4 | 600.0            | 1423.7 | -74.1 | 6.1   | 0.0  | -0.1 | -8.8  | 58.7  | 58.7  |  |
| Tent1                 |              | Area   | 116.0          | 0.0  | 113.0 | 136.0 | 200.0            | 1284.7 | -73.2 | -1.1  | 0.0  | -0.1 | -9.5  | 61.2  | 61.2  |  |
| Tent1                 |              | Area   | 117.9          | 18.0 | 110.3 | 135.1 | 300.0            | 1266.5 | -73.0 | 7.3   | 0.0  | -0.1 | -10.3 | 59.9  | 59.9  |  |
| Tent1                 |              | Area   | 117.8          | 18.0 | 110.3 | 135.0 | 300.0            | 1276.6 | -73.1 | -0.1  | 0.0  | -0.1 | -10.1 | 51.7  | 51.7  |  |
| Tent1                 |              | Area   | 113.9          | 18.0 | 106.0 | 129.0 | 200.0            | 1258.7 | -73.0 | 7.0   | 0.0  | -0.1 | -10.2 | 52.7  | 52.7  |  |
| Tent1                 |              | Area   | 116.8          | 18.0 | 109.5 | 137.2 | 600.0            | 1271.2 | -73.1 | 5.4   | 0.0  | -0.1 | -10.2 | 60.8  | 60.8  |  |
| Indoor2               |              | Area   | 114.5          | 18.0 | 107.6 | 135.4 | 600.0            | 1392.6 | -73.9 | 4.2   | 0.0  | -0.1 | -10.6 | 55.0  | 55.0  |  |
| Indoor2               |              | Area   | 108.4          | 18.0 | 99.5  | 122.6 | 200.0            | 1380.0 | -73.8 | 6.6   | 0.0  | -0.1 | -10.1 | 45.1  | 45.1  |  |
| Indoor2               |              | Area   | 111.3          | 18.0 | 103.1 | 127.9 | 300.0            | 1397.9 | -73.9 | -0.4  | 0.0  | -0.1 | -9.9  | 43.6  | 43.6  |  |
| Indoor2               |              | Area   | 112.6          | 18.0 | 104.8 | 129.5 | 300.0            | 1387.4 | -73.8 | 7.7   | 0.0  | -0.1 | -10.3 | 53.0  | 53.0  |  |
| Indoor2               |              | Area   | 114.2          | 18.0 | 106.9 | 129.9 | 200.0            | 1405.6 | -73.9 | 0.1   | 0.0  | -0.1 | -10.2 | 45.8  | 45.8  |  |
| Indoor1               | Facade 1     | Area   | 109.3          | 28.0 | 91.9  | 124.7 | 1905.0           | 1534.1 | -74.7 | -2.5  | 0.0  | -0.1 | 0.0   | 50.5  | 50.5  |  |
| Indoor1               | Facade 2     | Area   | 108.6          | 28.0 | 91.2  | 125.0 | 2396.6           | 1590.4 | -75.0 | -2.0  | 0.0  | -0.1 | 0.0   | 50.9  | 50.9  |  |
| Indoor1               | Facade 3     | Area   | 116.3          | 28.0 | 99.1  | 132.0 | 1919.1           | 1519.0 | -74.6 | 7.6   | 0.0  | -0.1 | 0.0   | 67.8  | 67.8  |  |
| Indoor1               | Facade 4     | Area   | 111.1          | 28.0 | 93.8  | 127.7 | 2429.5           | 1463.5 | -74.3 | 7.1   | 0.0  | -0.1 | 0.0   | 63.4  | 63.4  |  |
| Outdoor1              | Outdoor1_PAL | Point  |                |      | 146.4 | 146.4 |                  | 1261.6 | -73.0 | 2.4   | 0.0  | -2.3 | -10.1 | 63.4  | 63.4  |  |
| Outdoor1              | Outdoor1_PA  | Point  |                |      | 146.4 | 146.4 |                  | 1242.3 | -72.9 | 2.3   | 0.0  | -2.3 | -10.1 | 63.5  | 63.5  |  |
| Outdoor1              | Outdoor1_sub | Line   |                |      | 136.1 | 150.5 | 27.3             | 1251.6 | -72.9 | 7.1   | 0.0  | -0.1 | -7.5  | 77.2  | 77.2  |  |
| Outdoor2              | Outdoor2_PAL | Point  |                |      | 132.3 | 132.3 |                  | 1364.8 | -73.7 | 3.7   | 0.0  | -0.9 | -5.1  | 56.3  | 56.3  |  |
| Outdoor2              | Outdoor2_PA  | Point  |                |      | 132.3 | 132.3 |                  | 1364.3 | -73.7 | 3.7   | 0.0  | -0.9 | -5.2  | 56.2  | 56.2  |  |
| Outdoor2              | Outdoor2_sub | Line   |                |      | 127.6 | 135.0 | 5.5              | 1364.1 | -73.7 | 7.8   | 0.0  | -0.1 | -11.5 | 57.6  | 57.6  |  |
| Outdoor4              | Outdoor4_PAL | Point  |                |      | 141.8 | 141.8 |                  | 1546.0 | -74.8 | 2.4   | 0.0  | -2.2 | -9.9  | 58.1  | 58.1  |  |
| Outdoor4              | Outdoor4_PA  | Point  |                |      | 141.8 | 141.8 |                  | 1546.1 | -74.8 | 2.4   | 0.0  | -2.1 | -10.0 | 57.8  | 57.8  |  |
| Outdoor4              | Outdoor4_sub | Line   |                |      | 130.7 | 145.0 | 27.2             | 1545.2 | -74.8 | 4.9   | 0.0  | -0.1 | 0.0   | 75.2  | 75.2  |  |
| Indoor1               | Roof         | Area   | 111.3          | 28.0 | 94.1  | 137.2 | 20505.           | 1525.6 | -74.7 | 6.2   | 0.0  | -0.1 | 0.0   | 68.7  | 68.7  |  |

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## NDSM\_groot Mean propagation Leq - EnvironmentC

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| Group                 | Source       | Source | Li        | Rw   | L'w   | Lw    | I or A | S      | Adiv  | Agr   | Abar | Aatm | ADI   | Ls    | Lr    |  |
|-----------------------|--------------|--------|-----------|------|-------|-------|--------|--------|-------|-------|------|------|-------|-------|-------|--|
|                       |              |        | dB(A)     | dB   | dB(A) | dB(A) | m,m²   | m      | dB    | dB    | dB   | dB   | dB    | dB(A) | dB(A) |  |
| Indoor2               |              | Area   | 112.6     | 18.0 | 104.8 | 129.5 | 300.0  | 553.36 | -65.9 | -8.9  | 0.0  | 0.0  | -9.9  | 50.0  | 50.0  |  |
| Indoor2               |              | Area   | 114.2     | 18.0 | 106.9 | 129.9 | 200.0  | 544.54 | -65.7 | -7.2  | 0.0  | 0.0  | -10.2 | 46.8  | 46.8  |  |
| Indoor1               | Facade 1     | Area   | 109.3     | 28.0 | 91.9  | 124.7 | 1905.0 | 399.42 | -63.0 | 2.6   | 0.0  | 0.0  | 0.0   | 67.3  | 67.3  |  |
| Indoor1               | Facade 2     | Area   | 108.6     | 28.0 | 91.2  | 125.0 | 2396.6 | 464.40 | -64.3 | -12.2 | 0.0  | 0.0  | 0.0   | 51.4  | 51.4  |  |
| Indoor1               | Facade 3     | Area   | 116.3     | 28.0 | 99.1  | 132.0 | 1919.1 | 557.98 | -65.9 | -16.6 | 0.0  | 0.0  | 0.0   | 52.4  | 52.4  |  |
| Indoor1               | Facade 4     | Area   | 111.1     | 28.0 | 93.8  | 127.7 | 2429.5 | 485.11 | -64.7 | -15.4 | 0.0  | 0.0  | 0.0   | 50.6  | 50.6  |  |
| Outdoor1              | Outdoor1_PAL | Point  |           |      | 146.4 | 146.4 |        | 556.58 | -65.9 | -4.3  | 0.0  | -0.9 | -13.8 | 61.5  | 61.5  |  |
| Outdoor1              | Outdoor1_PA  | Point  |           |      | 146.4 | 146.4 |        | 561.27 | -66.0 | -15.8 | 0.0  | -0.8 | -10.6 | 53.2  | 53.2  |  |
| Outdoor1              | Outdoor1_sub | Line   |           |      | 136.1 | 150.5 | 27.3   | 559.53 | -65.9 | -2.4  | 0.0  | 0.0  | -38.3 | 43.9  | 43.9  |  |
| Outdoor2              | Outdoor2_PAL | Point  |           |      | 132.3 | 132.3 |        | 590.21 | -66.4 | -10.4 | 0.0  | -0.1 | -2.7  | 56.3  | 56.3  |  |
| Outdoor2              | Outdoor2_PA  | Point  |           |      | 132.3 | 132.3 |        | 595.35 | -66.5 | -10.6 | 0.0  | -0.2 | -3.0  | 55.4  | 55.4  |  |
| Outdoor2              | Outdoor2_sub | Line   |           |      | 127.6 | 135.0 | 5.5    | 592.90 | -66.5 | -3.2  | 0.0  | 0.0  | -3.0  | 65.4  | 65.4  |  |
| Outdoor4              | Outdoor4_PAL | Point  |           |      | 141.8 | 141.8 |        | 613.80 | -66.8 | -14.5 | 0.0  | -0.8 | -9.8  | 50.2  | 50.2  |  |
| Outdoor4              | Outdoor4_PA  | Point  |           |      | 141.8 | 141.8 |        | 589.58 | -66.4 | -15.5 | 0.0  | -0.6 | -12.4 | 47.7  | 47.7  |  |
| Outdoor4              | Outdoor4_sub | Line   |           |      | 130.7 | 145.0 | 27.2   | 601.93 | -66.6 | -11.3 | 0.0  | 0.0  | -5.1  | 63.3  | 63.3  |  |
| Indoor1               | Roof         | Area   | 111.3     | 28.0 | 94.1  | 137.2 | 20505. | 472.45 | -64.5 | -5.5  | 0.0  | 0.0  | 0.0   | 67.2  | 67.2  |  |
| Receiver Ondinaweg    |              |        | Leq 74.0  |      |       | dB(C) |        |        |       |       |      |      |       |       |       |  |
| Outdoor3              |              | Area   | 114.2     | 18.0 | 107.0 | 130.0 | 200.0  | 174.53 | -55.8 | -23.8 | 0.0  | 0.0  | -10.5 | 40.1  | 40.1  |  |
| Outdoor3              |              | Area   | 111.6     | 18.0 | 103.7 | 128.5 | 300.0  | 155.67 | -54.8 | -16.9 | 0.0  | 0.0  | -10.5 | 48.1  | 48.1  |  |
| Outdoor3              |              | Area   | 111.8     | 18.0 | 104.0 | 128.8 | 300.0  | 166.63 | -55.4 | -22.2 | 0.0  | 0.0  | -10.6 | 40.9  | 40.9  |  |
| Outdoor3              |              | Area   | 107.9     | 18.0 | 99.4  | 122.4 | 200.0  | 149.09 | -54.5 | -19.1 | 0.0  | 0.0  | -10.6 | 41.7  | 41.7  |  |
| Outdoor3              |              | Area   | 114.4     | 18.0 | 107.6 | 135.4 | 600.0  | 161.12 | -55.1 | -14.9 | 0.0  | 0.0  | -10.4 | 55.6  | 55.6  |  |
| Tent1                 |              | Area   | 116.0     | 0.0  | 113.0 | 136.0 | 200.0  | 293.61 | -60.3 | -15.3 | 0.0  | 0.0  | -0.3  | 60.0  | 60.0  |  |
| Tent1                 |              | Area   | 117.9     | 18.0 | 110.3 | 135.1 | 300.0  | 306.33 | -60.7 | -14.3 | 0.0  | 0.0  | -0.2  | 59.8  | 59.8  |  |
| Tent1                 |              | Area   | 117.8     | 18.0 | 110.3 | 135.0 | 300.0  | 309.90 | -60.8 | -13.1 | 0.0  | 0.0  | -0.4  | 60.8  | 60.8  |  |
| Tent1                 |              | Area   | 113.9     | 18.0 | 106.0 | 129.0 | 200.0  | 323.20 | -61.2 | -13.1 | 0.0  | 0.0  | -0.2  | 54.5  | 54.5  |  |
| Tent1                 |              | Area   | 116.8     | 18.0 | 109.5 | 137.2 | 600.0  | 307.90 | -60.8 | -12.8 | 0.0  | 0.0  | -0.2  | 63.4  | 63.4  |  |
| Indoor2               |              | Area   | 114.5     | 18.0 | 107.6 | 135.4 | 600.0  | 264.04 | -59.4 | -18.5 | 0.0  | 0.0  | -1.5  | 57.0  | 57.0  |  |
| Indoor2               |              | Area   | 108.4     | 18.0 | 99.5  | 122.6 | 200.0  | 276.05 | -59.8 | -22.7 | 0.0  | 0.0  | -2.2  | 38.9  | 38.9  |  |
| Indoor2               |              | Area   | 111.3     | 18.0 | 103.1 | 127.9 | 300.0  | 269.32 | -59.6 | -21.3 | 0.0  | 0.0  | -2.7  | 45.2  | 45.2  |  |
| Indoor2               |              | Area   | 112.6     | 18.0 | 104.8 | 129.5 | 300.0  | 257.85 | -59.2 | -17.5 | 0.0  | 0.0  | -2.3  | 50.9  | 50.9  |  |
| Indoor2               |              | Area   | 114.2     | 18.0 | 106.9 | 129.9 | 200.0  | 251.15 | -59.0 | -14.0 | 0.0  | 0.0  | -2.7  | 54.5  | 54.5  |  |
| Indoor1               | Facade 1     | Area   | 109.3     | 28.0 | 91.9  | 124.7 | 1905.0 | 345.36 | -61.8 | -27.1 | 0.0  | 0.0  | 0.0   | 39.6  | 39.6  |  |
| Indoor1               | Facade 2     | Area   | 108.6     | 28.0 | 91.2  | 125.0 | 2396.6 | 260.97 | -59.3 | -27.2 | 0.0  | 0.0  | 0.0   | 43.3  | 43.3  |  |
| Indoor1               | Facade 3     | Area   | 116.3     | 28.0 | 99.1  | 132.0 | 1919.1 | 186.25 | -56.4 | -15.0 | 0.0  | 0.0  | 0.0   | 69.0  | 69.0  |  |
| Indoor1               | Facade 4     | Area   | 111.1     | 28.0 | 93.8  | 127.7 | 2429.5 | 257.79 | -59.2 | -28.7 | 0.0  | 0.0  | 0.0   | 44.2  | 44.2  |  |
| Outdoor1              | Outdoor1_PAL | Point  |           |      | 146.4 | 146.4 |        | 399.25 | -63.0 | -24.5 | 0.0  | -0.7 | -8.7  | 50.6  | 50.6  |  |
| Outdoor1              | Outdoor1_PA  | Point  |           |      | 146.4 | 146.4 |        | 422.22 | -63.5 | -25.1 | 0.0  | -0.7 | -9.2  | 49.8  | 49.8  |  |
| Outdoor1              | Outdoor1_sub | Line   |           |      | 136.1 | 150.5 | 27.3   | 409.89 | -63.2 | -20.1 | 0.0  | 0.0  | -12.2 | 55.8  | 55.8  |  |
| Outdoor2              | Outdoor2_PAL | Point  |           |      | 132.3 | 132.3 |        | 243.89 | -58.7 | -29.7 | 0.0  | -0.1 | -1.5  | 42.8  | 42.8  |  |
| Outdoor2              | Outdoor2_PA  | Point  |           |      | 132.3 | 132.3 |        | 239.73 | -58.6 | -28.7 | 0.0  | 0.0  | -1.2  | 44.4  | 44.4  |  |
| Outdoor2              | Outdoor2_sub | Line   |           |      | 127.6 | 135.0 | 5.5    | 242.16 | -58.7 | -18.7 | 0.0  | 0.0  | -1.4  | 56.7  | 56.7  |  |
| Outdoor4              | Outdoor4_PAL | Point  |           |      | 141.8 | 141.8 |        | 126.69 | -53.0 | -38.0 | 0.0  | -0.1 | -6.8  | 44.4  | 44.4  |  |
| Outdoor4              | Outdoor4_PA  | Point  |           |      | 141.8 | 141.8 |        | 150.28 | -54.5 | -32.5 | 0.0  | -0.1 | -4.3  | 52.6  | 52.6  |  |
| Outdoor4              | Outdoor4_sub | Line   |           |      | 130.7 | 145.0 | 27.2   | 137.05 | -53.7 | -19.2 | 0.0  | 0.0  | -4.4  | 68.5  | 68.5  |  |
| Indoor1               | Roof         | Area   | 111.3     | 28.0 | 94.1  | 137.2 | 20505. | 253.85 | -59.1 | -16.9 | 0.0  | 0.0  | 0.0   | 61.9  | 61.9  |  |
| Receiver Outdoor1 FOH |              |        | Leq 117.2 |      |       | dB(C) |        |        |       |       |      |      |       |       |       |  |
| Outdoor3              |              | Area   | 114.2     | 18.0 | 107.0 | 130.0 | 200.0  | 237.98 | -58.5 | -5.3  | 0.0  | 0.0  | -5.2  | 61.0  | 61.0  |  |
| Outdoor3              |              | Area   | 111.6     | 18.0 | 103.7 | 128.5 | 300.0  | 254.81 | -59.1 | -11.0 | 0.0  | 0.0  | -4.7  | 53.6  | 53.6  |  |
| Outdoor3              |              | Area   | 111.8     | 18.0 | 104.0 | 128.8 | 300.0  | 239.03 | -58.6 | -6.4  | 0.0  | 0.0  | -4.5  | 59.5  | 59.5  |  |
| Outdoor3              |              | Area   | 107.9     | 18.0 | 99.4  | 122.4 | 200.0  | 256.63 | -59.2 | -11.9 | 0.0  | 0.0  | -4.1  | 47.5  | 47.5  |  |
| Outdoor3              |              | Area   | 114.4     | 18.0 | 107.6 | 135.4 | 600.0  | 247.16 | -58.9 | -6.7  | 0.0  | 0.0  | -3.8  | 66.0  | 66.0  |  |
| Tent1                 |              | Area   | 116.0     | 0.0  | 113.0 | 136.0 | 200.0  | 115.05 | -52.2 | -10.6 | 0.0  | 0.0  | -9.8  | 63.4  | 63.4  |  |
| Tent1                 |              | Area   | 117.9     | 18.0 | 110.3 | 135.1 | 300.0  | 108.89 | -51.7 | -10.2 | 0.0  | 0.0  | -10.4 | 62.9  | 62.9  |  |
| Tent1                 |              | Area   | 117.8     | 18.0 | 110.3 | 135.0 | 300.0  | 96.44  | -50.7 | 4.5   | 0.0  | 0.0  | -10.1 | 78.8  | 78.8  |  |
| Tent1                 |              | Area   | 113.9     | 18.0 | 106.0 | 129.0 | 200.0  | 91.22  | -50.2 | 4.4   | 0.0  | 0.0  | -10.1 | 73.5  | 73.5  |  |
| Tent1                 |              | Area   | 116.8     | 18.0 | 109.5 | 137.2 | 600.0  | 102.66 | -51.2 | -3.6  | 0.0  | 0.0  | -10.3 | 72.2  | 72.2  |  |
| Indoor2               |              | Area   | 114.5     | 18.0 | 107.6 | 135.4 | 600.0  | 170.02 | -55.6 | -2.3  | 0.0  | 0.0  | -10.1 | 69.1  | 69.1  |  |

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## NDSM\_groot Mean propagation Leq - EnvironmentC

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| Group                                  | Source       | Source | Li    | Rw   | L'w   | Lw    | I or A  | S      | Adiv  | Agr   | Abar | Aatm | ADI   | Ls    | Lr    |  |
|----------------------------------------|--------------|--------|-------|------|-------|-------|---------|--------|-------|-------|------|------|-------|-------|-------|--|
|                                        |              |        | dB(A) | dB   | dB(A) | dB(A) | m,m²    | m      | dB    | dB    | dB   | dB   | dB    | dB(A) | dB(A) |  |
| Tent1                                  |              | Area   | 116.8 | 18.0 | 109.5 | 137.2 | 600.0   | 255.28 | -59.1 | -8.3  | 0.0  | 0.0  | -0.6  | 71.1  | 71.1  |  |
| Indoor2                                |              | Area   | 114.5 | 18.0 | 107.6 | 135.4 | 600.0   | 163.30 | -55.3 | -3.6  | 0.0  | 0.0  | 0.0   | 76.9  | 76.9  |  |
| Indoor2                                |              | Area   | 108.4 | 18.0 | 99.5  | 122.6 | 200.0   | 178.63 | -56.0 | -11.6 | 0.0  | 0.0  | -0.2  | 55.3  | 55.3  |  |
| Indoor2                                |              | Area   | 111.3 | 18.0 | 103.1 | 127.9 | 300.0   | 164.99 | -55.3 | -19.3 | 0.0  | 0.0  | -0.4  | 55.4  | 55.4  |  |
| Indoor2                                |              | Area   | 112.6 | 18.0 | 104.8 | 129.5 | 300.0   | 161.60 | -55.2 | 4.7   | 0.0  | 0.0  | -0.1  | 79.0  | 79.0  |  |
| Indoor2                                |              | Area   | 114.2 | 18.0 | 106.9 | 129.9 | 200.0   | 148.99 | -54.5 | 1.6   | 0.0  | 0.0  | -0.2  | 77.2  | 77.2  |  |
| Indoor1                                | Facade 1     | Area   | 109.3 | 28.0 | 91.9  | 124.7 | 1905.0  | 212.20 | -57.5 | -15.5 | 0.0  | 0.0  | 0.0   | 54.9  | 54.9  |  |
| Indoor1                                | Facade 2     | Area   | 108.6 | 28.0 | 91.2  | 125.0 | 2396.6  | 127.82 | -53.1 | -14.2 | 0.0  | 0.0  | 0.0   | 64.3  | 64.3  |  |
| Indoor1                                | Facade 3     | Area   | 116.3 | 28.0 | 99.1  | 132.0 | 1919.1  | 57.85  | -46.2 | 5.4   | 0.0  | 0.0  | 0.0   | 94.8  | 94.8  |  |
| Indoor1                                | Facade 4     | Area   | 111.1 | 28.0 | 93.8  | 127.7 | 2429.5  | 128.11 | -53.1 | -15.9 | 0.0  | 0.0  | 0.0   | 67.7  | 67.7  |  |
| Outdoor1                               | Outdoor1_PAL | Point  |       |      | 146.4 | 146.4 |         | 316.93 | -61.0 | -12.7 | 0.0  | -0.5 | -6.2  | 66.6  | 66.6  |  |
| Outdoor1                               | Outdoor1_PA  | Point  |       |      | 146.4 | 146.4 |         | 341.24 | -61.7 | -16.5 | 0.0  | -0.5 | -6.8  | 62.7  | 62.7  |  |
| Outdoor1                               | Outdoor1_sub | Line   |       |      | 136.1 | 150.5 | 27.3    | 328.20 | -61.3 | -5.2  | 0.0  | 0.0  | -14.8 | 69.7  | 69.7  |  |
| Outdoor2                               | Outdoor2_PAL | Point  |       |      | 132.3 | 132.3 |         | 167.00 | -55.4 | -16.2 | 0.0  | 0.0  | -0.1  | 73.6  | 73.6  |  |
| Outdoor2                               | Outdoor2_PA  | Point  |       |      | 132.3 | 132.3 |         | 165.39 | -55.4 | -20.4 | 0.0  | 0.0  | -0.1  | 59.5  | 59.5  |  |
| Outdoor2                               | Outdoor2_sub | Line   |       |      | 127.6 | 135.0 | 5.5     | 166.71 | -55.4 | -8.1  | 0.0  | 0.0  | -0.1  | 76.0  | 76.0  |  |
| Outdoor4                               | Outdoor4_PAL | Point  |       |      | 141.8 | 141.8 |         | 28.95  | -40.2 | 0.4   | 0.0  | -0.1 | -0.7  | 101.5 | 101.5 |  |
| Outdoor4                               | Outdoor4_PA  | Point  |       |      | 141.8 | 141.8 |         | 29.00  | -40.2 | 0.5   | 0.0  | -0.1 | -0.5  | 101.7 | 101.7 |  |
| Outdoor4                               | Outdoor4_sub | Line   |       |      | 130.7 | 145.0 | 27.2    | 26.57  | -39.5 | 5.9   | 0.0  | 0.0  | 0.0   | 111.8 | 111.8 |  |
| Indoor1                                | Roof         | Area   | 111.3 | 28.0 | 94.1  | 137.2 | 20505.0 | 110.21 | -51.8 | -4.7  | 0.0  | 0.0  | 0.0   | 81.2  | 81.2  |  |
| Receiver Pontsteiger Leq 81.0 dB(C)    |              |        |       |      |       |       |         |        |       |       |      |      |       |       |       |  |
| Outdoor3                               |              | Area   | 114.2 | 18.0 | 107.0 | 130.0 | 200.0   | 1035.0 | -71.3 | -1.3  | 0.0  | -0.1 | -8.5  | 48.9  | 48.9  |  |
| Outdoor3                               |              | Area   | 111.6 | 18.0 | 103.7 | 128.5 | 300.0   | 1047.2 | -71.4 | -4.1  | 0.0  | -0.1 | -7.8  | 45.8  | 45.8  |  |
| Outdoor3                               |              | Area   | 111.8 | 18.0 | 104.0 | 128.8 | 300.0   | 1027.3 | -71.2 | 1.2   | 0.0  | -0.1 | -7.8  | 51.1  | 51.1  |  |
| Outdoor3                               |              | Area   | 107.9 | 18.0 | 99.4  | 122.4 | 200.0   | 1039.4 | -71.3 | -4.7  | 0.0  | -0.1 | -7.3  | 38.9  | 38.9  |  |
| Outdoor3                               |              | Area   | 114.4 | 18.0 | 107.6 | 135.4 | 600.0   | 1037.2 | -71.3 | 0.2   | 0.0  | -0.1 | -7.7  | 56.5  | 56.5  |  |
| Tent1                                  |              | Area   | 116.0 | 0.0  | 113.0 | 136.0 | 200.0   | 892.68 | -70.0 | -5.2  | 0.0  | -0.1 | -9.0  | 58.0  | 58.0  |  |
| Tent1                                  |              | Area   | 117.9 | 18.0 | 110.3 | 135.1 | 300.0   | 874.67 | -69.8 | 3.5   | 0.0  | -0.1 | -9.9  | 59.2  | 59.2  |  |
| Tent1                                  |              | Area   | 117.8 | 18.0 | 110.3 | 135.0 | 300.0   | 882.39 | -69.9 | -5.2  | 0.0  | -0.1 | -9.7  | 50.1  | 50.1  |  |
| Tent1                                  |              | Area   | 113.9 | 18.0 | 106.0 | 129.0 | 200.0   | 864.97 | -69.7 | 3.3   | 0.0  | -0.1 | -9.7  | 52.8  | 52.8  |  |
| Tent1                                  |              | Area   | 116.8 | 18.0 | 109.5 | 137.2 | 600.0   | 879.24 | -69.9 | 0.0   | 0.0  | -0.1 | -9.6  | 58.2  | 58.2  |  |
| Indoor2                                |              | Area   | 114.5 | 18.0 | 107.6 | 135.4 | 600.0   | 995.79 | -71.0 | 0.4   | 0.0  | -0.1 | -10.3 | 54.5  | 54.5  |  |
| Indoor2                                |              | Area   | 108.4 | 18.0 | 99.5  | 122.6 | 200.0   | 981.34 | -70.8 | 3.0   | 0.0  | -0.1 | -9.3  | 45.2  | 45.2  |  |
| Indoor2                                |              | Area   | 111.3 | 18.0 | 103.1 | 127.9 | 300.0   | 999.08 | -71.0 | -4.6  | 0.0  | -0.1 | -9.6  | 42.6  | 42.6  |  |
| Indoor2                                |              | Area   | 112.6 | 18.0 | 104.8 | 129.5 | 300.0   | 990.32 | -70.9 | 3.5   | 0.0  | -0.1 | -9.8  | 52.3  | 52.3  |  |
| Indoor2                                |              | Area   | 114.2 | 18.0 | 106.9 | 129.9 | 200.0   | 1008.4 | -71.1 | -4.0  | 0.0  | -0.1 | -10.1 | 44.7  | 44.7  |  |
| Indoor1                                | Facade 1     | Area   | 109.3 | 28.0 | 91.9  | 124.7 | 1905.0  | 1127.0 | -72.0 | -5.9  | 0.0  | -0.1 | 0.0   | 49.7  | 49.7  |  |
| Indoor1                                | Facade 2     | Area   | 108.6 | 28.0 | 91.2  | 125.0 | 2396.6  | 1190.4 | -72.5 | -5.6  | 0.0  | -0.1 | 0.0   | 49.8  | 49.8  |  |
| Indoor1                                | Facade 3     | Area   | 116.3 | 28.0 | 99.1  | 132.0 | 1919.1  | 1124.8 | -72.0 | -5.5  | 0.0  | -0.1 | 0.0   | 57.3  | 57.3  |  |
| Indoor1                                | Facade 4     | Area   | 111.1 | 28.0 | 93.8  | 127.7 | 2429.5  | 1063.0 | -71.5 | 3.2   | 0.0  | -0.1 | 0.0   | 62.3  | 62.3  |  |
| Outdoor1                               | Outdoor1_PAL | Point  |       |      | 146.4 | 146.4 |         | 856.16 | -69.6 | 2.5   | 0.0  | -1.3 | -8.0  | 70.0  | 70.0  |  |
| Outdoor1                               | Outdoor1_PA  | Point  |       |      | 146.4 | 146.4 |         | 835.59 | -69.4 | 2.6   | 0.0  | -1.2 | -8.4  | 70.0  | 70.0  |  |
| Outdoor1                               | Outdoor1_sub | Line   |       |      | 136.1 | 150.5 | 27.3    | 845.63 | -69.5 | 3.9   | 0.0  | -0.1 | -8.6  | 76.4  | 76.4  |  |
| Outdoor2                               | Outdoor2_PAL | Point  |       |      | 132.3 | 132.3 |         | 971.46 | -70.7 | 1.8   | 0.0  | -0.9 | -5.9  | 56.5  | 56.5  |  |
| Outdoor2                               | Outdoor2_PA  | Point  |       |      | 132.3 | 132.3 |         | 971.61 | -70.7 | 1.8   | 0.0  | -0.9 | -6.2  | 56.2  | 56.2  |  |
| Outdoor2                               | Outdoor2_sub | Line   |       |      | 127.6 | 135.0 | 5.5     | 971.08 | -70.7 | 3.2   | 0.0  | -0.1 | -11.5 | 56.0  | 56.0  |  |
| Outdoor4                               | Outdoor4_PAL | Point  |       |      | 141.8 | 141.8 |         | 1160.1 | -72.3 | 1.5   | 0.0  | -1.5 | -8.4  | 61.6  | 61.6  |  |
| Outdoor4                               | Outdoor4_PA  | Point  |       |      | 141.8 | 141.8 |         | 1157.4 | -72.3 | 2.0   | 0.0  | -1.7 | -9.0  | 61.5  | 61.5  |  |
| Outdoor4                               | Outdoor4_sub | Line   |       |      | 130.7 | 145.0 | 27.2    | 1158.0 | -72.3 | 3.8   | 0.0  | -0.1 | 0.0   | 76.6  | 76.6  |  |
| Indoor1                                | Roof         | Area   | 111.3 | 28.0 | 94.1  | 137.2 | 20505.0 | 1124.3 | -72.0 | 2.8   | 0.0  | -0.1 | 0.0   | 67.9  | 67.9  |  |
| Receiver Scheepsbouwweg Leq 71.4 dB(C) |              |        |       |      |       |       |         |        |       |       |      |      |       |       |       |  |
| Outdoor3                               |              | Area   | 114.2 | 18.0 | 107.0 | 130.0 | 200.0   | 480.55 | -64.6 | -10.6 | 0.0  | 0.0  | -10.1 | 47.6  | 47.6  |  |
| Outdoor3                               |              | Area   | 111.6 | 18.0 | 103.7 | 128.5 | 300.0   | 470.38 | -64.4 | -7.4  | 0.0  | 0.0  | -9.9  | 46.8  | 46.8  |  |
| Outdoor3                               |              | Area   | 111.8 | 18.0 | 104.0 | 128.8 | 300.0   | 490.42 | -64.8 | -9.6  | 0.0  | 0.0  | -9.9  | 45.1  | 45.1  |  |
| Outdoor3                               |              | Area   | 107.9 | 18.0 | 99.4  | 122.4 | 200.0   | 480.19 | -64.6 | -11.2 | 0.0  | 0.0  | -9.6  | 36.9  | 36.9  |  |
| Outdoor3                               |              | Area   | 114.4 | 18.0 | 107.6 | 135.4 | 600.0   | 480.35 | -64.6 | -7.6  | 0.0  | 0.0  | -10.5 | 52.9  | 52.9  |  |
| Tent1                                  |              | Area   | 116.0 | 0.0  | 113.0 | 136.0 | 200.0   | 622.03 | -66.9 | -11.2 | 0.0  | 0.0  | -1.2  | 56.7  | 56.7  |  |
| Tent1                                  |              | Area   | 117.9 | 18.0 | 110.3 | 135.1 | 300.0   | 639.55 | -67.1 | -10.5 | 0.0  | 0.0  | -1.2  | 56.2  | 56.2  |  |

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## NDSM\_groot Mean propagation Leq - EnvironmentC

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| Group                    | Source       | Source | Li       | Rw   | L'w   | Lw    | I or A | S      | Adiv  | Agr   | Abar | Aatm | ADI   | Ls    | Lr    |  |
|--------------------------|--------------|--------|----------|------|-------|-------|--------|--------|-------|-------|------|------|-------|-------|-------|--|
|                          |              |        | dB(A)    | dB   | dB(A) | dB(A) | m,m²   | m      | dB    | dB    | dB   | dB   | dB    | dB(A) | dB(A) |  |
| Tent1                    |              | Area   | 117.8    | 18.0 | 110.3 | 135.0 | 300.0  | 631.79 | -67.0 | -9.9  | 0.0  | 0.0  | -1.1  | 57.0  | 57.0  |  |
| Tent1                    |              | Area   | 113.9    | 18.0 | 106.0 | 129.0 | 200.0  | 649.70 | -67.2 | -10.6 | 0.0  | 0.0  | -1.1  | 50.1  | 50.1  |  |
| Tent1                    |              | Area   | 116.8    | 18.0 | 109.5 | 137.2 | 600.0  | 635.66 | -67.1 | -8.7  | 0.0  | 0.0  | -1.2  | 60.2  | 60.2  |  |
| Indoor2                  |              | Area   | 114.5    | 18.0 | 107.6 | 135.4 | 600.0  | 523.25 | -65.4 | -14.4 | 0.0  | 0.0  | -1.5  | 54.1  | 54.1  |  |
| Indoor2                  |              | Area   | 108.4    | 18.0 | 99.5  | 122.6 | 200.0  | 537.83 | -65.6 | -11.8 | 0.0  | 0.0  | -0.6  | 44.5  | 44.5  |  |
| Indoor2                  |              | Area   | 111.3    | 18.0 | 103.1 | 127.9 | 300.0  | 520.06 | -65.3 | -14.8 | 0.0  | 0.0  | -0.6  | 47.1  | 47.1  |  |
| Indoor2                  |              | Area   | 112.6    | 18.0 | 104.8 | 129.5 | 300.0  | 525.95 | -65.4 | -10.8 | 0.0  | 0.0  | -0.7  | 52.6  | 52.6  |  |
| Indoor2                  |              | Area   | 114.2    | 18.0 | 106.9 | 129.9 | 200.0  | 509.12 | -65.1 | -14.4 | 0.0  | 0.0  | -0.7  | 49.7  | 49.7  |  |
| Indoor1                  | Facade 1     | Area   | 109.3    | 28.0 | 91.9  | 124.7 | 1905.0 | 430.53 | -63.7 | -19.5 | 0.0  | 0.0  | 0.0   | 44.6  | 44.6  |  |
| Indoor1                  | Facade 2     | Area   | 108.6    | 28.0 | 91.2  | 125.0 | 2396.6 | 344.09 | -61.7 | -3.1  | 0.0  | 0.0  | 0.0   | 63.1  | 63.1  |  |
| Indoor1                  | Facade 3     | Area   | 116.3    | 28.0 | 99.1  | 132.0 | 1919.1 | 381.07 | -62.6 | -8.3  | 0.0  | 0.0  | 0.0   | 64.0  | 64.0  |  |
| Indoor1                  | Facade 4     | Area   | 111.1    | 28.0 | 93.8  | 127.7 | 2429.5 | 465.89 | -64.4 | -19.3 | 0.0  | 0.0  | 0.0   | 47.0  | 47.0  |  |
| Outdoor1                 | Outdoor1_PAL | Point  |          |      | 146.4 | 146.4 |        | 673.58 | -67.6 | -22.8 | 0.0  | -1.9 | -7.3  | 46.8  | 46.8  |  |
| Outdoor1                 | Outdoor1_PA  | Point  |          |      | 146.4 | 146.4 |        | 697.06 | -67.9 | -22.6 | 0.0  | -2.0 | -8.1  | 45.8  | 45.8  |  |
| Outdoor1                 | Outdoor1_sub | Line   |          |      | 136.1 | 150.5 | 27.3   | 684.96 | -67.7 | -12.8 | 0.0  | 0.0  | -16.5 | 53.5  | 53.5  |  |
| Outdoor2                 | Outdoor2_PAL | Point  |          |      | 132.3 | 132.3 |        | 543.25 | -65.7 | -17.3 | 0.0  | -0.3 | 0.0   | 48.9  | 48.9  |  |
| Outdoor2                 | Outdoor2_PA  | Point  |          |      | 132.3 | 132.3 |        | 543.00 | -65.7 | -15.9 | 0.0  | -0.3 | 0.0   | 50.3  | 50.3  |  |
| Outdoor2                 | Outdoor2_sub | Line   |          |      | 127.6 | 135.0 | 5.5    | 543.62 | -65.7 | -10.6 | 0.0  | 0.0  | 0.0   | 58.6  | 58.6  |  |
| Outdoor4                 | Outdoor4_PAL | Point  |          |      | 141.8 | 141.8 |        | 358.43 | -62.1 | -27.0 | 0.0  | -0.4 | -7.8  | 44.5  | 44.5  |  |
| Outdoor4                 | Outdoor4_PA  | Point  |          |      | 141.8 | 141.8 |        | 358.08 | -62.1 | -27.3 | 0.0  | -0.4 | -7.9  | 44.2  | 44.2  |  |
| Outdoor4                 | Outdoor4_sub | Line   |          |      | 130.7 | 145.0 | 27.2   | 358.93 | -62.1 | -8.5  | 0.0  | 0.0  | -11.6 | 62.7  | 62.7  |  |
| Indoor1                  | Roof         | Area   | 111.3    | 28.0 | 94.1  | 137.2 | 20505. | 400.62 | -63.0 | -9.9  | 0.0  | 0.0  | 0.0   | 64.2  | 64.2  |  |
| Receiver Spaandammerdijk |              |        | Leq 81.7 |      |       | dB(C) |        |        |       |       |      |      |       |       |       |  |
| Outdoor3                 |              | Area   | 114.2    | 18.0 | 107.0 | 130.0 | 200.0  | 1533.8 | -74.7 | 0.8   | 0.0  | -0.1 | -10.2 | 45.8  | 45.8  |  |
| Outdoor3                 |              | Area   | 111.6    | 18.0 | 103.7 | 128.5 | 300.0  | 1540.5 | -74.7 | 0.7   | 0.0  | -0.1 | -9.7  | 44.7  | 44.7  |  |
| Outdoor3                 |              | Area   | 111.8    | 18.0 | 104.0 | 128.8 | 300.0  | 1520.9 | -74.6 | 6.3   | 0.0  | -0.1 | -10.1 | 50.5  | 50.5  |  |
| Outdoor3                 |              | Area   | 107.9    | 18.0 | 99.4  | 122.4 | 200.0  | 1527.5 | -74.7 | 6.0   | 0.0  | -0.1 | -9.8  | 43.7  | 43.7  |  |
| Outdoor3                 |              | Area   | 114.4    | 18.0 | 107.6 | 135.4 | 600.0  | 1530.7 | -74.7 | 6.0   | 0.0  | -0.1 | -9.9  | 56.8  | 56.8  |  |
| Tent1                    |              | Area   | 116.0    | 0.0  | 113.0 | 136.0 | 200.0  | 1408.0 | -74.0 | -0.2  | 0.0  | -0.1 | -9.7  | 64.2  | 64.2  |  |
| Tent1                    |              | Area   | 117.9    | 18.0 | 110.3 | 135.1 | 300.0  | 1390.1 | -73.9 | 7.1   | 0.0  | -0.1 | -10.6 | 57.6  | 57.6  |  |
| Tent1                    |              | Area   | 117.8    | 18.0 | 110.3 | 135.0 | 300.0  | 1404.3 | -73.9 | 0.7   | 0.0  | -0.1 | -10.4 | 51.3  | 51.3  |  |
| Tent1                    |              | Area   | 113.9    | 18.0 | 106.0 | 129.0 | 200.0  | 1386.6 | -73.8 | 7.1   | 0.0  | -0.1 | -10.5 | 51.7  | 51.7  |  |
| Tent1                    |              | Area   | 116.8    | 18.0 | 109.5 | 137.2 | 600.0  | 1397.2 | -73.9 | 5.7   | 0.0  | -0.1 | -10.5 | 63.9  | 63.9  |  |
| Indoor2                  |              | Area   | 114.5    | 18.0 | 107.6 | 135.4 | 600.0  | 1523.2 | -74.6 | 4.5   | 0.0  | -0.1 | -10.8 | 54.3  | 54.3  |  |
| Indoor2                  |              | Area   | 108.4    | 18.0 | 99.5  | 122.6 | 200.0  | 1512.5 | -74.6 | 5.3   | 0.0  | -0.1 | -10.1 | 43.0  | 43.0  |  |
| Indoor2                  |              | Area   | 111.3    | 18.0 | 103.1 | 127.9 | 300.0  | 1530.2 | -74.7 | 0.0   | 0.0  | -0.1 | -10.0 | 43.1  | 43.1  |  |
| Indoor2                  |              | Area   | 112.6    | 18.0 | 104.8 | 129.5 | 300.0  | 1516.1 | -74.6 | 6.8   | 0.0  | -0.1 | -10.5 | 51.1  | 51.1  |  |
| Indoor2                  |              | Area   | 114.2    | 18.0 | 106.9 | 129.9 | 200.0  | 1533.9 | -74.7 | 0.4   | 0.0  | -0.1 | -10.5 | 45.1  | 45.1  |  |
| Indoor1                  | Facade 1     | Area   | 109.3    | 28.0 | 91.9  | 124.7 | 1905.0 | 1681.7 | -75.5 | -1.8  | 0.0  | -0.1 | 0.0   | 50.4  | 50.4  |  |
| Indoor1                  | Facade 2     | Area   | 108.6    | 28.0 | 91.2  | 125.0 | 2396.6 | 1719.0 | -75.7 | -1.4  | 0.0  | -0.1 | 0.0   | 50.7  | 50.7  |  |
| Indoor1                  | Facade 3     | Area   | 116.3    | 28.0 | 99.1  | 132.0 | 1919.1 | 1634.0 | -75.3 | 6.5   | 0.0  | -0.1 | 0.0   | 66.2  | 66.2  |  |
| Indoor1                  | Facade 4     | Area   | 111.1    | 28.0 | 93.8  | 127.7 | 2429.5 | 1597.5 | -75.1 | 6.5   | 0.0  | -0.1 | 0.0   | 62.1  | 62.1  |  |
| Outdoor1                 | Outdoor1_PAL | Point  |          |      | 146.4 | 146.4 |        | 1414.7 | -74.0 | 2.7   | 0.0  | -2.5 | -9.7  | 62.9  | 62.9  |  |
| Outdoor1                 | Outdoor1_PA  | Point  |          |      | 146.4 | 146.4 |        | 1399.4 | -73.9 | 2.6   | 0.0  | -2.4 | -9.6  | 63.3  | 63.3  |  |
| Outdoor1                 | Outdoor1_sub | Line   |          |      | 136.1 | 150.5 | 27.3   | 1406.5 | -74.0 | 7.9   | 0.0  | -0.1 | -4.6  | 79.8  | 79.8  |  |
| Outdoor2                 | Outdoor2_PAL | Point  |          |      | 132.3 | 132.3 |        | 1487.1 | -74.4 | 3.3   | 0.0  | -1.1 | -5.6  | 54.4  | 54.4  |  |
| Outdoor2                 | Outdoor2_PA  | Point  |          |      | 132.3 | 132.3 |        | 1485.4 | -74.4 | -0.5  | 0.0  | -1.5 | -6.3  | 49.6  | 49.6  |  |
| Outdoor2                 | Outdoor2_sub | Line   |          |      | 127.6 | 135.0 | 5.5    | 1485.8 | -74.4 | 8.5   | 0.0  | -0.1 | -11.9 | 57.0  | 57.0  |  |
| Outdoor4                 | Outdoor4_PAL | Point  |          |      | 141.8 | 141.8 |        | 1647.2 | -75.3 | -7.2  | 0.0  | -1.5 | -8.4  | 49.4  | 49.4  |  |
| Outdoor4                 | Outdoor4_PA  | Point  |          |      | 141.8 | 141.8 |        | 1652.5 | -75.4 | 2.4   | 0.0  | -2.3 | -9.9  | 57.0  | 57.0  |  |
| Outdoor4                 | Outdoor4_sub | Line   |          |      | 130.7 | 145.0 | 27.2   | 1648.9 | -75.3 | 5.3   | 0.0  | -0.1 | -0.2  | 74.9  | 74.9  |  |
| Indoor1                  | Roof         | Area   | 111.3    | 28.0 | 94.1  | 137.2 | 20505. | 1656.7 | -75.4 | 5.5   | 0.0  | -0.1 | 0.0   | 67.2  | 67.2  |  |
| Receiver Stettineiland   |              |        | Leq 81.4 |      |       | dB(C) |        |        |       |       |      |      |       |       |       |  |
| Outdoor3                 |              | Area   | 114.2    | 18.0 | 107.0 | 130.0 | 200.0  | 1151.9 | -72.2 | -4.2  | 0.0  | -0.1 | -9.9  | 43.8  | 43.8  |  |
| Outdoor3                 |              | Area   | 111.6    | 18.0 | 103.7 | 128.5 | 300.0  | 1159.4 | -72.3 | -3.3  | 0.0  | -0.1 | -9.2  | 44.4  | 44.4  |  |
| Outdoor3                 |              | Area   | 111.8    | 18.0 | 104.0 | 128.8 | 300.0  | 1139.6 | -72.1 | 3.0   | 0.0  | -0.1 | -9.3  | 50.4  | 50.4  |  |
| Outdoor3                 |              | Area   | 107.9    | 18.0 | 99.4  | 122.4 | 200.0  | 1147.1 | -72.2 | 3.2   | 0.0  | -0.1 | -8.7  | 44.8  | 44.8  |  |
| Outdoor3                 |              | Area   | 114.4    | 18.0 | 107.6 | 135.4 | 600.0  | 1149.4 | -72.2 | 0.6   | 0.0  | -0.1 | -9.4  | 54.4  | 54.4  |  |

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## NDSM\_groot Mean propagation Leq - EnvironmentC

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| Group                                        | Source       | Source | Li    | Rw   | L'w   | Lw    | I or A | S      | Adiv  | Agr   | Abar | Aatm | ADI   | Ls    | Lr    |  |
|----------------------------------------------|--------------|--------|-------|------|-------|-------|--------|--------|-------|-------|------|------|-------|-------|-------|--|
|                                              |              |        | dB(A) | dB   | dB(A) | dB(A) | m,m²   | m      | dB    | dB    | dB   | dB   | dB    | dB(A) | dB(A) |  |
| Outdoor1                                     | Outdoor1_PAL | Point  |       |      | 146.4 | 146.4 |        | 1540.2 | -74.7 | 3.6   | 0.0  | -1.8 | -11.5 | 61.9  | 61.9  |  |
| Outdoor1                                     | Outdoor1_PA  | Point  |       |      | 146.4 | 146.4 |        | 1547.1 | -74.8 | 3.8   | 0.0  | -1.8 | -12.0 | 63.0  | 63.0  |  |
| Outdoor1                                     | Outdoor1_sub | Line   |       |      | 136.1 | 150.5 | 27.3   | 1542.8 | -74.8 | 5.4   | 0.0  | -0.1 | -0.7  | 80.3  | 80.3  |  |
| Outdoor2                                     | Outdoor2_PAL | Point  |       |      | 132.3 | 132.3 |        | 1467.2 | -74.3 | -3.7  | 0.0  | -0.6 | -6.0  | 57.4  | 57.4  |  |
| Outdoor2                                     | Outdoor2_PA  | Point  |       |      | 132.3 | 132.3 |        | 1461.9 | -74.3 | -2.9  | 0.0  | -0.4 | -5.7  | 56.4  | 56.4  |  |
| Outdoor2                                     | Outdoor2_sub | Line   |       |      | 127.6 | 135.0 | 5.5    | 1464.5 | -74.3 | 3.9   | 0.0  | -0.1 | -7.3  | 64.4  | 64.4  |  |
| Outdoor4                                     | Outdoor4_PAL | Point  |       |      | 141.8 | 141.8 |        | 1471.0 | -74.3 | -8.5  | 0.0  | -1.3 | -9.7  | 47.9  | 47.9  |  |
| Outdoor4                                     | Outdoor4_PA  | Point  |       |      | 141.8 | 141.8 |        | 1492.9 | -74.5 | -7.3  | 0.0  | -1.3 | -9.1  | 49.7  | 49.7  |  |
| Outdoor4                                     | Outdoor4_sub | Line   |       |      | 130.7 | 145.0 | 27.2   | 1481.2 | -74.4 | -1.3  | 0.0  | -0.1 | -2.9  | 66.2  | 66.2  |  |
| Indoor1                                      | Roof         | Area   | 111.3 | 28.0 | 94.1  |       | 20505. | 1586.7 | -75.0 | 4.1   | 0.0  | -0.1 | 0.0   | 66.1  | 66.1  |  |
| <b>Receiver Happarandadam Leq 82.0 dB(C)</b> |              |        |       |      |       |       |        |        |       |       |      |      |       |       |       |  |
| Outdoor3                                     |              | Area   | 114.2 | 18.0 | 107.0 | 130.0 | 200.0  | 1220.4 | -72.7 | -3.5  | 0.0  | -0.1 | -10.2 | 43.6  | 43.6  |  |
| Outdoor3                                     |              | Area   | 111.6 | 18.0 | 103.7 | 128.5 | 300.0  | 1225.3 | -72.8 | -3.0  | 0.0  | -0.1 | -9.4  | 43.6  | 43.6  |  |
| Outdoor3                                     |              | Area   | 111.8 | 18.0 | 104.0 | 128.8 | 300.0  | 1206.2 | -72.6 | 3.1   | 0.0  | -0.1 | -9.7  | 49.9  | 49.9  |  |
| Outdoor3                                     |              | Area   | 107.9 | 18.0 | 99.4  | 122.4 | 200.0  | 1211.1 | -72.7 | 3.0   | 0.0  | -0.1 | -9.1  | 43.5  | 43.5  |  |
| Outdoor3                                     |              | Area   | 114.4 | 18.0 | 107.6 | 135.4 | 600.0  | 1216.0 | -72.7 | 0.8   | 0.0  | -0.1 | -10.0 | 53.6  | 53.6  |  |
| Tent1                                        |              | Area   | 116.0 | 0.0  | 113.0 | 136.0 | 200.0  | 1103.3 | -71.8 | -4.3  | 0.0  | -0.1 | -9.0  | 65.6  | 65.6  |  |
| Tent1                                        |              | Area   | 117.9 | 18.0 | 110.3 | 135.1 | 300.0  | 1085.9 | -71.7 | 3.6   | 0.0  | -0.1 | -10.4 | 56.5  | 56.5  |  |
| Tent1                                        |              | Area   | 117.8 | 18.0 | 110.3 | 135.0 | 300.0  | 1101.9 | -71.8 | -3.4  | 0.0  | -0.1 | -10.2 | 49.5  | 49.5  |  |
| Tent1                                        |              | Area   | 113.9 | 18.0 | 106.0 | 129.0 | 200.0  | 1084.8 | -71.7 | 3.4   | 0.0  | -0.1 | -10.1 | 50.6  | 50.6  |  |
| Tent1                                        |              | Area   | 116.8 | 18.0 | 109.5 | 137.2 | 600.0  | 1093.9 | -71.8 | 0.7   | 0.0  | -0.1 | -9.8  | 63.3  | 63.3  |  |
| Indoor2                                      |              | Area   | 114.5 | 18.0 | 107.6 | 135.4 | 600.0  | 1219.6 | -72.7 | 0.9   | 0.0  | -0.1 | -10.5 | 53.0  | 53.0  |  |
| Indoor2                                      |              | Area   | 108.4 | 18.0 | 99.5  | 122.6 | 200.0  | 1210.3 | -72.6 | 3.2   | 0.0  | -0.2 | -9.4  | 43.5  | 43.5  |  |
| Indoor2                                      |              | Area   | 111.3 | 18.0 | 103.1 | 127.9 | 300.0  | 1227.4 | -72.8 | -3.3  | 0.0  | -0.1 | -9.9  | 41.8  | 41.8  |  |
| Indoor2                                      |              | Area   | 112.6 | 18.0 | 104.8 | 129.5 | 300.0  | 1211.7 | -72.7 | 3.6   | 0.0  | -0.1 | -10.2 | 50.2  | 50.2  |  |
| Indoor2                                      |              | Area   | 114.2 | 18.0 | 106.9 | 129.9 | 200.0  | 1229.0 | -72.8 | -3.1  | 0.0  | -0.1 | -10.6 | 43.4  | 43.4  |  |
| Indoor1                                      | Facade 1     | Area   | 109.3 | 28.0 | 91.9  | 124.7 | 1905.0 | 1384.9 | -73.8 | -4.0  | 0.0  | -0.1 | 0.0   | 49.8  | 49.8  |  |
| Indoor1                                      | Facade 2     | Area   | 108.6 | 28.0 | 91.2  | 125.0 | 2396.6 | 1411.2 | -74.0 | -4.0  | 0.0  | -0.1 | 0.0   | 49.9  | 49.9  |  |
| Indoor1                                      | Facade 3     | Area   | 116.3 | 28.0 | 99.1  | 132.0 | 1919.1 | 1320.8 | -73.4 | 3.8   | 0.0  | -0.1 | 0.0   | 65.3  | 65.3  |  |
| Indoor1                                      | Facade 4     | Area   | 111.1 | 28.0 | 93.8  | 127.7 | 2429.5 | 1294.2 | -73.2 | 3.5   | 0.0  | -0.1 | 0.0   | 60.9  | 60.9  |  |
| Outdoor1                                     | Outdoor1_PAL | Point  |       |      | 146.4 | 146.4 |        | 1126.6 | -72.0 | 2.2   | 0.0  | -1.7 | -10.1 | 64.8  | 64.8  |  |
| Outdoor1                                     | Outdoor1_PA  | Point  |       |      | 146.4 | 146.4 |        | 1114.4 | -71.9 | 1.9   | 0.0  | -1.8 | -10.3 | 64.5  | 64.5  |  |
| Outdoor1                                     | Outdoor1_sub | Line   |       |      | 136.1 | 150.5 | 27.3   | 1119.9 | -72.0 | 4.2   | 0.0  | -0.1 | -2.0  | 80.7  | 80.7  |  |
| Outdoor2                                     | Outdoor2_PAL | Point  |       |      | 132.3 | 132.3 |        | 1180.2 | -72.4 | -4.6  | 0.0  | -0.6 | -6.1  | 48.5  | 48.5  |  |
| Outdoor2                                     | Outdoor2_PA  | Point  |       |      | 132.3 | 132.3 |        | 1177.8 | -72.4 | -5.7  | 0.0  | -0.5 | -5.9  | 47.8  | 47.8  |  |
| Outdoor2                                     | Outdoor2_sub | Line   |       |      | 127.6 | 135.0 | 5.5    | 1178.6 | -72.4 | -1.0  | 0.0  | -0.1 | -12.1 | 49.4  | 49.4  |  |
| Outdoor4                                     | Outdoor4_PAL | Point  |       |      | 141.8 | 141.8 |        | 1328.1 | -73.5 | -8.1  | 0.0  | -1.2 | -7.8  | 51.3  | 51.3  |  |
| Outdoor4                                     | Outdoor4_PA  | Point  |       |      | 141.8 | 141.8 |        | 1335.4 | -73.5 | 2.1   | 0.0  | -1.8 | -8.5  | 60.1  | 60.1  |  |
| Outdoor4                                     | Outdoor4_sub | Line   |       |      | 130.7 | 145.0 | 27.2   | 1330.9 | -73.5 | 0.9   | 0.0  | -0.1 | -0.3  | 72.3  | 72.3  |  |
| Indoor1                                      | Roof         | Area   | 111.3 | 28.0 | 94.1  |       | 20505. | 1351.5 | -73.6 | 3.7   | 0.0  | -0.1 | 0.0   | 67.2  | 67.2  |  |
| <b>Receiver HeggerankwegA Leq 66.2 dB(C)</b> |              |        |       |      |       |       |        |        |       |       |      |      |       |       |       |  |
| Outdoor3                                     |              | Area   | 114.2 | 18.0 | 107.0 | 130.0 | 200.0  | 1153.0 | -72.2 | -6.9  | 0.0  | 0.0  | -1.3  | 49.8  | 49.8  |  |
| Outdoor3                                     |              | Area   | 111.6 | 18.0 | 103.7 | 128.5 | 300.0  | 1162.4 | -72.3 | -9.0  | 0.0  | -0.1 | -1.3  | 45.8  | 45.8  |  |
| Outdoor3                                     |              | Area   | 111.8 | 18.0 | 104.0 | 128.8 | 300.0  | 1170.8 | -72.4 | -8.0  | 0.0  | 0.0  | -1.4  | 48.7  | 48.7  |  |
| Outdoor3                                     |              | Area   | 107.9 | 18.0 | 99.4  | 122.4 | 200.0  | 1180.3 | -72.4 | -9.4  | 0.0  | -0.1 | -1.3  | 39.3  | 39.3  |  |
| Outdoor3                                     |              | Area   | 114.4 | 18.0 | 107.6 | 135.4 | 600.0  | 1166.7 | -72.3 | -9.6  | 0.0  | -0.1 | -2.1  | 51.6  | 51.6  |  |
| Tent1                                        |              | Area   | 116.0 | 0.0  | 113.0 | 136.0 | 200.0  | 1187.2 | -72.5 | -11.3 | 0.0  | -0.1 | -9.1  | 43.0  | 43.0  |  |
| Tent1                                        |              | Area   | 117.9 | 18.0 | 110.3 | 135.1 | 300.0  | 1198.2 | -72.6 | -7.8  | 0.0  | 0.0  | -9.3  | 45.4  | 45.4  |  |
| Tent1                                        |              | Area   | 117.8 | 18.0 | 110.3 | 135.0 | 300.0  | 1178.2 | -72.4 | -9.0  | 0.0  | -0.1 | -9.3  | 44.3  | 44.3  |  |
| Tent1                                        |              | Area   | 113.9 | 18.0 | 106.0 | 129.0 | 200.0  | 1189.2 | -72.5 | -8.9  | 0.0  | 0.0  | -9.2  | 38.4  | 38.4  |  |
| Tent1                                        |              | Area   | 116.8 | 18.0 | 109.5 | 137.2 | 600.0  | 1188.3 | -72.5 | -6.6  | 0.0  | -0.1 | -9.3  | 48.8  | 48.8  |  |
| Indoor2                                      |              | Area   | 114.5 | 18.0 | 107.6 | 135.4 | 600.0  | 1093.1 | -71.8 | -9.3  | 0.0  | 0.0  | -10.4 | 44.6  | 44.6  |  |
| Indoor2                                      |              | Area   | 108.4 | 18.0 | 99.5  | 122.6 | 200.0  | 1093.0 | -71.8 | -8.5  | 0.0  | -0.1 | -9.5  | 32.7  | 32.7  |  |
| Indoor2                                      |              | Area   | 111.3 | 18.0 | 103.1 | 127.9 | 300.0  | 1083.0 | -71.7 | -9.9  | 0.0  | -0.1 | -9.5  | 36.7  | 36.7  |  |
| Indoor2                                      |              | Area   | 112.6 | 18.0 | 104.8 | 129.5 | 300.0  | 1103.1 | -71.8 | -6.4  | 0.0  | 0.0  | -9.7  | 42.8  | 42.8  |  |
| Indoor2                                      |              | Area   | 114.2 | 18.0 | 106.9 | 129.9 | 200.0  | 1093.1 | -71.8 | -7.1  | 0.0  | 0.0  | -9.8  | 41.2  | 41.2  |  |
| Indoor1                                      | Facade 1     | Area   | 109.3 | 28.0 | 91.9  | 124.7 | 1905.0 | 936.86 | -70.4 | -9.9  | 0.0  | 0.0  | 0.0   | 47.4  | 47.4  |  |
| Indoor1                                      | Facade 2     | Area   | 108.6 | 28.0 | 91.2  | 125.0 | 2396.6 | 987.37 | -70.9 | -10.6 | 0.0  | 0.0  | 0.0   | 46.4  | 46.4  |  |

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## NDSM\_groot Mean propagation Leq - EnvironmentC

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| Group                                 | Source       | Source | Li    | Rw   | L'w   | Lw    | I or A | S      | Adiv  | Agr   | Abar | Aatm | ADI   | Ls    | Lr    |  |
|---------------------------------------|--------------|--------|-------|------|-------|-------|--------|--------|-------|-------|------|------|-------|-------|-------|--|
|                                       |              |        | dB(A) | dB   | dB(A) | dB(A) | m,m²   | m      | dB    | dB    | dB   | dB   | dB    | dB(A) | dB(A) |  |
| Indoor1                               | Facade 3     | Area   | 116.3 | 28.0 | 99.1  | 132.0 | 1919.1 | 1087.0 | -71.7 | -15.2 | 0.0  | 0.0  | 0.0   | 48.0  | 48.0  |  |
| Indoor1                               | Facade 4     | Area   | 111.1 | 28.0 | 93.8  | 127.7 | 2429.5 | 1033.1 | -71.3 | -16.4 | 0.0  | 0.0  | 0.0   | 43.0  | 43.0  |  |
| Outdoor1                              | Outdoor1_PAL | Point  |       |      | 146.4 | 146.4 |        | 1107.4 | -71.9 | -20.6 | 0.0  | -2.0 | -9.9  | 42.1  | 42.1  |  |
| Outdoor1                              | Outdoor1_PA  | Point  |       |      | 146.4 | 146.4 |        | 1110.3 | -71.9 | -23.5 | 0.0  | -1.5 | -8.8  | 40.6  | 40.6  |  |
| Outdoor1                              | Outdoor1_sub | Line   |       |      | 136.1 | 150.5 | 27.3   | 1109.6 | -71.9 | -5.9  | 0.0  | 0.0  | -39.7 | 33.0  | 33.0  |  |
| Outdoor2                              | Outdoor2_PAL | Point  |       |      | 132.3 | 132.3 |        | 1140.3 | -72.1 | -10.5 | 0.0  | -0.1 | -2.2  | 51.3  | 51.3  |  |
| Outdoor2                              | Outdoor2_PA  | Point  |       |      | 132.3 | 132.3 |        | 1145.3 | -72.2 | -11.8 | 0.0  | -0.2 | -2.3  | 49.4  | 49.4  |  |
| Outdoor2                              | Outdoor2_sub | Line   |       |      | 127.6 | 135.0 | 5.5    | 1143.0 | -72.2 | 0.0   | 0.0  | 0.0  | -2.6  | 63.1  | 63.1  |  |
| Outdoor4                              | Outdoor4_PAL | Point  |       |      | 141.8 | 141.8 |        | 1135.3 | -72.1 | -20.6 | 0.0  | -3.2 | -7.6  | 38.5  | 38.5  |  |
| Outdoor4                              | Outdoor4_PA  | Point  |       |      | 141.8 | 141.8 |        | 1112.1 | -71.9 | -21.4 | 0.0  | -2.4 | -13.5 | 33.1  | 33.1  |  |
| Outdoor4                              | Outdoor4_sub | Line   |       |      | 130.7 | 145.0 | 27.2   | 1124.3 | -72.0 | -7.9  | 0.0  | 0.0  | -6.8  | 58.4  | 58.4  |  |
| Indoor1                               | Roof         | Area   | 111.3 | 28.0 | 94.1  | 137.2 | 20505. | 1009.5 | -71.1 | -9.9  | 0.0  | 0.0  | 0.0   | 56.2  | 56.2  |  |
| Receiver HeggerankwegB Leq 66.1 dB(C) |              |        |       |      |       |       |        |        |       |       |      |      |       |       |       |  |
| Outdoor3                              |              | Area   | 114.2 | 18.0 | 107.0 | 130.0 | 200.0  | 1392.9 | -73.9 | -3.4  | 0.0  | -0.1 | -0.5  | 52.2  | 52.2  |  |
| Outdoor3                              |              | Area   | 111.6 | 18.0 | 103.7 | 128.5 | 300.0  | 1404.6 | -73.9 | -6.1  | 0.0  | -0.1 | -0.5  | 47.9  | 47.9  |  |
| Outdoor3                              |              | Area   | 111.8 | 18.0 | 104.0 | 128.8 | 300.0  | 1410.0 | -74.0 | -7.0  | 0.0  | -0.1 | -0.5  | 48.6  | 48.6  |  |
| Outdoor3                              |              | Area   | 107.9 | 18.0 | 99.4  | 122.4 | 200.0  | 1421.8 | -74.0 | -7.7  | 0.0  | -0.1 | -0.5  | 40.1  | 40.1  |  |
| Outdoor3                              |              | Area   | 114.4 | 18.0 | 107.6 | 135.4 | 600.0  | 1407.5 | -74.0 | -3.4  | 0.0  | -0.1 | -1.1  | 56.9  | 56.9  |  |
| Tent1                                 |              | Area   | 116.0 | 0.0  | 113.0 | 136.0 | 200.0  | 1402.9 | -73.9 | -10.2 | 0.0  | -0.1 | -9.7  | 42.1  | 42.1  |  |
| Tent1                                 |              | Area   | 117.9 | 18.0 | 110.3 | 135.1 | 300.0  | 1411.2 | -74.0 | -8.0  | 0.0  | -0.1 | -10.1 | 43.0  | 43.0  |  |
| Tent1                                 |              | Area   | 117.8 | 18.0 | 110.3 | 135.0 | 300.0  | 1391.3 | -73.9 | -6.4  | 0.0  | -0.1 | -10.0 | 44.7  | 44.7  |  |
| Tent1                                 |              | Area   | 113.9 | 18.0 | 106.0 | 129.0 | 200.0  | 1399.6 | -73.9 | -6.9  | 0.0  | -0.1 | -10.0 | 38.2  | 38.2  |  |
| Tent1                                 |              | Area   | 116.8 | 18.0 | 109.5 | 137.2 | 600.0  | 1401.2 | -73.9 | -5.2  | 0.0  | -0.1 | -10.0 | 48.0  | 48.0  |  |
| Indoor2                               |              | Area   | 114.5 | 18.0 | 107.6 | 135.4 | 600.0  | 1322.4 | -73.4 | -3.3  | 0.0  | -0.1 | -10.8 | 50.5  | 50.5  |  |
| Indoor2                               |              | Area   | 108.4 | 18.0 | 99.5  | 122.6 | 200.0  | 1319.7 | -73.4 | -6.2  | 0.0  | -0.1 | -10.1 | 32.8  | 32.8  |  |
| Indoor2                               |              | Area   | 111.3 | 18.0 | 103.1 | 127.9 | 300.0  | 1312.6 | -73.4 | -5.5  | 0.0  | -0.1 | -10.2 | 38.8  | 38.8  |  |
| Indoor2                               |              | Area   | 112.6 | 18.0 | 104.8 | 129.5 | 300.0  | 1332.3 | -73.5 | -5.7  | 0.0  | -0.1 | -10.3 | 45.6  | 45.6  |  |
| Indoor2                               |              | Area   | 114.2 | 18.0 | 106.9 | 129.9 | 200.0  | 1325.1 | -73.4 | -6.1  | 0.0  | -0.1 | -10.4 | 39.9  | 39.9  |  |
| Indoor1                               | Facade 1     | Area   | 109.3 | 28.0 | 91.9  | 124.7 | 1905.0 | 1182.2 | -72.4 | -4.2  | 0.0  | -0.1 | 0.0   | 51.0  | 51.0  |  |
| Indoor1                               | Facade 2     | Area   | 108.6 | 28.0 | 91.2  | 125.0 | 2396.6 | 1247.2 | -72.9 | -2.4  | 0.0  | -0.1 | 0.0   | 52.6  | 52.6  |  |
| Indoor1                               | Facade 3     | Area   | 116.3 | 28.0 | 99.1  | 132.0 | 1919.1 | 1339.9 | -73.5 | -15.6 | 0.0  | -0.1 | 0.0   | 45.8  | 45.8  |  |
| Indoor1                               | Facade 4     | Area   | 111.1 | 28.0 | 93.8  | 127.7 | 2429.5 | 1271.6 | -73.1 | -16.4 | 0.0  | -0.1 | 0.0   | 41.1  | 41.1  |  |
| Outdoor1                              | Outdoor1_PAL | Point  |       |      | 146.4 | 146.4 |        | 1307.2 | -73.3 | -19.0 | 0.0  | -2.6 | -8.7  | 42.7  | 42.7  |  |
| Outdoor1                              | Outdoor1_PA  | Point  |       |      | 146.4 | 146.4 |        | 1305.2 | -73.3 | -19.6 | 0.0  | -3.1 | -8.4  | 41.9  | 41.9  |  |
| Outdoor1                              | Outdoor1_sub | Line   |       |      | 136.1 | 150.5 | 27.3   | 1307.1 | -73.3 | -6.6  | 0.0  | -0.1 | -40.0 | 30.5  | 30.5  |  |
| Outdoor2                              | Outdoor2_PAL | Point  |       |      | 132.3 | 132.3 |        | 1368.2 | -73.7 | -10.2 | 0.0  | -0.2 | -3.0  | 49.0  | 49.0  |  |
| Outdoor2                              | Outdoor2_PA  | Point  |       |      | 132.3 | 132.3 |        | 1373.5 | -73.7 | -11.1 | 0.0  | -0.4 | -3.2  | 47.4  | 47.4  |  |
| Outdoor2                              | Outdoor2_sub | Line   |       |      | 127.6 | 135.0 | 5.5    | 1370.9 | -73.7 | -0.2  | 0.0  | -0.1 | -3.5  | 60.5  | 60.5  |  |
| Outdoor4                              | Outdoor4_PAL | Point  |       |      | 141.8 | 141.8 |        | 1394.2 | -73.9 | -16.5 | 0.0  | -2.2 | -9.6  | 39.9  | 39.9  |  |
| Outdoor4                              | Outdoor4_PA  | Point  |       |      | 141.8 | 141.8 |        | 1370.2 | -73.7 | -18.8 | 0.0  | -1.8 | -13.3 | 35.2  | 35.2  |  |
| Outdoor4                              | Outdoor4_sub | Line   |       |      | 130.7 | 145.0 | 27.2   | 1382.7 | -73.8 | -10.2 | 0.0  | -0.1 | -5.6  | 55.8  | 55.8  |  |
| Indoor1                               | Roof         | Area   | 111.3 | 28.0 | 94.1  | 137.2 | 20505. | 1258.6 | -73.0 | -4.3  | 0.0  | -0.1 | 0.0   | 59.8  | 59.8  |  |
| Receiver HeggerankwegC Leq 67.1 dB(C) |              |        |       |      |       |       |        |        |       |       |      |      |       |       |       |  |
| Outdoor3                              |              | Area   | 114.2 | 18.0 | 107.0 | 130.0 | 200.0  | 1469.0 | -74.3 | 3.1   | 0.0  | -0.1 | -0.1  | 58.7  | 58.7  |  |
| Outdoor3                              |              | Area   | 111.6 | 18.0 | 103.7 | 128.5 | 300.0  | 1482.6 | -74.4 | -1.2  | 0.0  | -0.1 | 0.0   | 52.8  | 52.8  |  |
| Outdoor3                              |              | Area   | 111.8 | 18.0 | 104.0 | 128.8 | 300.0  | 1485.0 | -74.4 | -4.8  | 0.0  | -0.1 | -0.1  | 49.5  | 49.5  |  |
| Outdoor3                              |              | Area   | 107.9 | 18.0 | 99.4  | 122.4 | 200.0  | 1498.8 | -74.5 | -5.6  | 0.0  | -0.1 | -0.1  | 42.1  | 42.1  |  |
| Outdoor3                              |              | Area   | 114.4 | 18.0 | 107.6 | 135.4 | 600.0  | 1483.7 | -74.4 | -1.5  | 0.0  | -0.1 | -0.4  | 59.0  | 59.0  |  |
| Tent1                                 |              | Area   | 116.0 | 0.0  | 113.0 | 136.0 | 200.0  | 1456.3 | -74.3 | -8.4  | 0.0  | -0.1 | -9.9  | 43.4  | 43.4  |  |
| Tent1                                 |              | Area   | 117.9 | 18.0 | 110.3 | 135.1 | 300.0  | 1461.9 | -74.3 | -5.2  | 0.0  | -0.1 | -10.5 | 45.0  | 45.0  |  |
| Tent1                                 |              | Area   | 117.8 | 18.0 | 110.3 | 135.0 | 300.0  | 1442.6 | -74.2 | -3.9  | 0.0  | -0.1 | -10.5 | 46.4  | 46.4  |  |
| Tent1                                 |              | Area   | 113.9 | 18.0 | 106.0 | 129.0 | 200.0  | 1448.2 | -74.2 | -4.2  | 0.0  | -0.1 | -10.4 | 40.2  | 40.2  |  |
| Tent1                                 |              | Area   | 116.8 | 18.0 | 109.5 | 137.2 | 600.0  | 1452.2 | -74.2 | -2.9  | 0.0  | -0.1 | -10.4 | 49.7  | 49.7  |  |
| Indoor2                               |              | Area   | 114.5 | 18.0 | 107.6 | 135.4 | 600.0  | 1390.4 | -73.9 | -1.8  | 0.0  | -0.1 | -10.8 | 50.9  | 50.9  |  |
| Indoor2                               |              | Area   | 108.4 | 18.0 | 99.5  | 122.6 | 200.0  | 1385.4 | -73.8 | 0.6   | 0.0  | -0.1 | -10.4 | 38.9  | 38.9  |  |
| Indoor2                               |              | Area   | 111.3 | 18.0 | 103.1 | 127.9 | 300.0  | 1381.1 | -73.8 | 1.8   | 0.0  | -0.1 | -10.7 | 45.2  | 45.2  |  |
| Indoor2                               |              | Area   | 112.6 | 18.0 | 104.8 | 129.5 | 300.0  | 1399.9 | -73.9 | -6.2  | 0.0  | -0.1 | -10.6 | 45.7  | 45.7  |  |
| Indoor2                               |              | Area   | 114.2 | 18.0 | 106.9 | 129.9 | 200.0  | 1395.6 | -73.9 | -7.5  | 0.0  | -0.1 | -10.6 | 45.7  | 45.7  |  |

Event Acoustics Proostwetering 50 NL-3543 AH Utrecht NETHERLANDS

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## NDSM\_groot

### Mean propagation Leq - EnvironmentC

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| Group | Source | Source | Li    | Rw | L'w   | Lw    | I or A | S | Adiv | Agr | Abar | Aatm | ADI | Ls    | Lr    |
|-------|--------|--------|-------|----|-------|-------|--------|---|------|-----|------|------|-----|-------|-------|
|       |        |        | dB(A) | dB | dB(A) | dB(A) | m,m²   | m | dB   | dB  | dB   | dB   | dB  | dB(A) | dB(A) |

| Receiver 01_A Silodam           |              | Leq 81.0 dB(C) |       |      |       |       |        |        |       |       |     |      |       |      |      |
|---------------------------------|--------------|----------------|-------|------|-------|-------|--------|--------|-------|-------|-----|------|-------|------|------|
| Outdoor3                        |              | Area           | 114.2 | 18.0 | 107.0 | 130.0 | 200.0  | 988.00 | -70.9 | -2.2  | 0.0 | -0.1 | -6.5  | 50.4 | 50.4 |
| Outdoor3                        |              | Area           | 111.6 | 18.0 | 103.7 | 128.5 | 300.0  | 1003.4 | -71.0 | -5.3  | 0.0 | -0.1 | -6.0  | 46.0 | 46.0 |
| Outdoor3                        |              | Area           | 111.8 | 18.0 | 104.0 | 128.8 | 300.0  | 985.34 | -70.9 | -2.0  | 0.0 | -0.1 | -5.8  | 50.1 | 50.1 |
| Outdoor3                        |              | Area           | 107.9 | 18.0 | 99.4  | 122.4 | 200.0  | 1000.8 | -71.0 | -5.9  | 0.0 | -0.1 | -5.6  | 39.8 | 39.8 |
| Outdoor3                        |              | Area           | 114.4 | 18.0 | 107.6 | 135.4 | 600.0  | 994.31 | -70.9 | -0.6  | 0.0 | -0.1 | -5.5  | 58.4 | 58.4 |
| Tent1                           |              | Area           | 116.0 | 0.0  | 113.0 | 136.0 | 200.0  | 846.67 | -69.5 | -6.5  | 0.0 | -0.1 | -8.9  | 50.9 | 50.9 |
| Tent1                           |              | Area           | 117.9 | 18.0 | 110.3 | 135.1 | 300.0  | 831.01 | -69.4 | 2.8   | 0.0 | -0.1 | -9.5  | 58.9 | 58.9 |
| Tent1                           |              | Area           | 117.8 | 18.0 | 110.3 | 135.0 | 300.0  | 831.88 | -69.4 | -6.2  | 0.0 | -0.1 | -9.5  | 49.9 | 49.9 |
| Tent1                           |              | Area           | 113.9 | 18.0 | 106.0 | 129.0 | 200.0  | 816.66 | -69.2 | 2.3   | 0.0 | -0.1 | -9.4  | 52.7 | 52.7 |
| Tent1                           |              | Area           | 116.8 | 18.0 | 109.5 | 137.2 | 600.0  | 831.79 | -69.4 | -1.0  | 0.0 | -0.1 | -9.2  | 57.6 | 57.6 |
| Indoor2                         |              | Area           | 114.5 | 18.0 | 107.6 | 135.4 | 600.0  | 926.46 | -70.3 | -0.1  | 0.0 | -0.1 | -9.9  | 55.0 | 55.0 |
| Indoor2                         |              | Area           | 108.4 | 18.0 | 99.5  | 122.6 | 200.0  | 910.79 | -70.2 | 3.4   | 0.0 | -0.1 | -9.3  | 46.4 | 46.4 |
| Indoor2                         |              | Area           | 111.3 | 18.0 | 103.1 | 127.9 | 300.0  | 926.81 | -70.3 | -5.8  | 0.0 | -0.1 | -9.4  | 42.3 | 42.3 |
| Indoor2                         |              | Area           | 112.6 | 18.0 | 104.8 | 129.5 | 300.0  | 924.06 | -70.3 | 3.9   | 0.0 | -0.1 | -9.6  | 53.4 | 53.4 |
| Indoor2                         |              | Area           | 114.2 | 18.0 | 106.9 | 129.9 | 200.0  | 940.55 | -70.5 | -4.8  | 0.0 | -0.1 | -9.8  | 44.8 | 44.8 |
| Indoor1                         | Facade 1     | Area           | 109.3 | 28.0 | 91.9  | 124.7 | 1905.0 | 1020.8 | -71.2 | 3.3   | 0.0 | -0.1 | 0.0   | 59.8 | 59.8 |
| Indoor1                         | Facade 2     | Area           | 108.6 | 28.0 | 91.2  | 125.0 | 2396.6 | 1104.3 | -71.9 | -7.2  | 0.0 | -0.1 | 0.0   | 48.8 | 48.8 |
| Indoor1                         | Facade 3     | Area           | 116.3 | 28.0 | 99.1  | 132.0 | 1919.1 | 1064.0 | -71.5 | -7.6  | 0.0 | -0.1 | 0.0   | 55.7 | 55.7 |
| Indoor1                         | Facade 4     | Area           | 111.1 | 28.0 | 93.8  | 127.7 | 2429.5 | 980.80 | -70.8 | 3.2   | 0.0 | -0.1 | 0.0   | 63.0 | 63.0 |
| Outdoor1                        | Outdoor1_PAL | Point          |       |      | 146.4 | 146.4 |        | 772.27 | -68.7 | 3.9   | 0.0 | -1.0 | -9.1  | 71.4 | 71.4 |
| Outdoor1                        | Outdoor1_PA  | Point          |       |      | 146.4 | 146.4 |        | 748.48 | -68.5 | 3.4   | 0.0 | -1.1 | -9.5  | 70.7 | 70.7 |
| Outdoor1                        | Outdoor1_sub | Line           |       |      | 136.1 | 150.5 | 27.3   | 760.47 | -68.6 | 7.0   | 0.0 | -0.1 | -13.8 | 75.0 | 75.0 |
| Outdoor2                        | Outdoor2_PAL | Point          |       |      | 132.3 | 132.3 |        | 916.08 | -70.2 | 1.5   | 0.0 | -0.8 | -5.8  | 57.0 | 57.0 |
| Outdoor2                        | Outdoor2_PA  | Point          |       |      | 132.3 | 132.3 |        | 917.93 | -70.2 | 1.8   | 0.0 | -0.8 | -6.1  | 59.4 | 59.4 |
| Outdoor2                        | Outdoor2_sub | Line           |       |      | 127.6 | 135.0 | 5.5    | 916.55 | -70.2 | 3.9   | 0.0 | -0.1 | -11.9 | 56.7 | 56.7 |
| Outdoor4                        | Outdoor4_PAL | Point          |       |      | 141.8 | 141.8 |        | 1111.7 | -71.9 | 1.3   | 0.0 | -1.8 | -8.5  | 61.0 | 61.0 |
| Outdoor4                        | Outdoor4_PA  | Point          |       |      | 141.8 | 141.8 |        | 1102.8 | -71.8 | 1.4   | 0.0 | -1.9 | -10.4 | 60.0 | 60.0 |
| Outdoor4                        | Outdoor4_sub | Line           |       |      | 130.7 | 145.0 | 27.2   | 1106.6 | -71.9 | 4.0   | 0.0 | -0.1 | -0.1  | 77.1 | 77.1 |
| Indoor1                         | Roof         | Area           | 111.3 | 28.0 | 94.1  | 137.2 | 20505  | 1041.4 | -71.3 | 2.4   | 0.0 | -0.1 | 0.0   | 68.2 | 68.2 |
| Receiver 02_A Containerwoningen |              | Leq 76.0 dB(C) |       |      |       |       |        |        |       |       |     |      |       |      |      |
| Outdoor3                        |              | Area           | 114.2 | 18.0 | 107.0 | 130.0 | 200.0  | 151.19 | -54.6 | -14.3 | 0.0 | 0.0  | -9.8  | 51.3 | 51.3 |
| Outdoor3                        |              | Area           | 111.6 | 18.0 | 103.7 | 128.5 | 300.0  | 133.33 | -53.5 | -0.3  | 0.0 | 0.0  | -9.6  | 65.0 | 65.0 |
| Outdoor3                        |              | Area           | 111.8 | 18.0 | 104.0 | 128.8 | 300.0  | 138.76 | -53.8 | -16.2 | 0.0 | 0.0  | -9.5  | 49.2 | 49.2 |
| Outdoor3                        |              | Area           | 107.9 | 18.0 | 99.4  | 122.4 | 200.0  | 122.30 | -52.7 | -11.6 | 0.0 | 0.0  | -9.4  | 48.6 | 48.6 |
| Outdoor3                        |              | Area           | 114.4 | 18.0 | 107.6 | 135.4 | 600.0  | 135.75 | -53.6 | -12.6 | 0.0 | 0.0  | -9.8  | 59.4 | 59.4 |
| Tent1                           |              | Area           | 116.0 | 0.0  | 113.0 | 136.0 | 200.0  | 253.89 | -59.1 | -16.3 | 0.0 | 0.0  | -0.5  | 60.0 | 60.0 |
| Tent1                           |              | Area           | 117.9 | 18.0 | 110.3 | 135.1 | 300.0  | 265.22 | -59.5 | -9.2  | 0.0 | 0.0  | -0.5  | 65.9 | 65.9 |
| Tent1                           |              | Area           | 117.8 | 18.0 | 110.3 | 135.0 | 300.0  | 270.88 | -59.6 | -16.9 | 0.0 | 0.0  | -0.7  | 57.8 | 57.8 |
| Tent1                           |              | Area           | 113.9 | 18.0 | 106.0 | 129.0 | 200.0  | 282.80 | -60.0 | -17.1 | 0.0 | 0.0  | -0.5  | 51.3 | 51.3 |
| Tent1                           |              | Area           | 116.8 | 18.0 | 109.5 | 137.2 | 600.0  | 267.57 | -59.5 | -13.8 | 0.0 | 0.0  | -0.6  | 63.3 | 63.3 |
| Indoor2                         |              | Area           | 114.5 | 18.0 | 107.6 | 135.4 | 600.0  | 240.45 | -58.6 | -14.4 | 0.0 | 0.0  | -2.4  | 60.0 | 60.0 |
| Indoor2                         |              | Area           | 108.4 | 18.0 | 99.5  | 122.6 | 200.0  | 251.07 | -59.0 | -16.9 | 0.0 | 0.0  | -2.7  | 44.0 | 44.0 |
| Indoor2                         |              | Area           | 111.3 | 18.0 | 103.1 | 127.9 | 300.0  | 247.54 | -58.9 | -16.9 | 0.0 | 0.0  | -3.3  | 48.9 | 48.9 |
| Indoor2                         |              | Area           | 112.6 | 18.0 | 104.8 | 129.5 | 300.0  | 233.42 | -58.4 | -14.9 | 0.0 | 0.0  | -2.8  | 53.5 | 53.5 |
| Indoor2                         |              | Area           | 114.2 | 18.0 | 106.9 | 129.9 | 200.0  | 229.74 | -58.2 | -13.1 | 0.0 | 0.0  | -3.8  | 54.8 | 54.8 |
| Indoor1                         | Facade 1     | Area           | 109.3 | 28.0 | 91.9  | 124.7 | 1905.0 | 345.83 | -61.8 | -25.6 | 0.0 | 0.0  | 0.0   | 40.5 | 40.5 |
| Indoor1                         | Facade 2     | Area           | 108.6 | 28.0 | 91.2  | 125.0 | 2396.6 | 276.70 | -59.8 | -25.2 | 0.0 | 0.0  | 0.0   | 42.9 | 42.9 |
| Indoor1                         | Facade 3     | Area           | 116.3 | 28.0 | 99.1  | 132.0 | 1919.1 | 189.54 | -56.5 | -13.4 | 0.0 | 0.0  | 0.0   | 67.0 | 67.0 |
| Indoor1                         | Facade 4     | Area           | 111.1 | 28.0 | 93.8  | 127.7 | 2429.5 | 246.57 | -58.8 | -25.3 | 0.0 | 0.0  | 0.0   | 54.0 | 54.0 |
| Outdoor1                        | Outdoor1_PAL | Point          |       |      | 146.4 | 146.4 |        | 365.26 | -62.2 | -16.3 | 0.0 | -0.5 | -7.6  | 59.7 | 59.7 |
| Outdoor1                        | Outdoor1_PA  | Point          |       |      | 146.4 | 146.4 |        | 387.45 | -62.8 | -16.3 | 0.0 | -0.5 | -7.4  | 59.8 | 59.8 |
| Outdoor1                        | Outdoor1_sub | Line           |       |      | 136.1 | 150.5 | 27.3   | 375.55 | -62.5 | -14.8 | 0.0 | 0.0  | -10.8 | 62.7 | 62.7 |
| Outdoor2                        | Outdoor2_PAL | Point          |       |      | 132.3 | 132.3 |        | 213.63 | -57.6 | -20.4 | 0.0 | -0.1 | -2.7  | 51.5 | 51.5 |
| Outdoor2                        | Outdoor2_PA  | Point          |       |      | 132.3 | 132.3 |        | 208.87 | -57.4 | -18.6 | 0.0 | -0.1 | -2.0  | 54.2 | 54.2 |
| Outdoor2                        | Outdoor2_sub | Line           |       |      | 127.6 | 135.0 | 5.5    | 211.65 | -57.5 | -12.7 | 0.0 | 0.0  | -1.9  | 62.9 | 62.9 |
| Outdoor4                        | Outdoor4_PAL | Point          |       |      | 141.8 | 141.8 |        | 144.37 | -54.2 | -34.6 | 0.0 | -0.1 | -5.8  | 47.1 | 47.1 |
| Outdoor4                        | Outdoor4_PA  | Point          |       |      | 141.8 | 141.8 |        | 164.84 | -55.3 | -28.7 | 0.0 | -0.1 | -3.7  | 54.0 | 54.0 |

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1



## NDSM\_groot Mean propagation Leq - EnvironmentC

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| Group                                           | Source       | Source | Li    | Rw   | L'w   | Lw    | I or A | S      | Adiv  | Agr   | Abar | Aatm | ADI   | Ls    | Lr    |  |
|-------------------------------------------------|--------------|--------|-------|------|-------|-------|--------|--------|-------|-------|------|------|-------|-------|-------|--|
|                                                 |              |        | dB(A) | dB   | dB(A) | dB(A) | m,m²   | m      | dB    | dB    | dB   | dB   | dB    | dB(A) | dB(A) |  |
| Outdoor4                                        | Outdoor4_PAL | Point  |       |      | 141.8 | 141.8 |        | 810.11 | -69.2 | -19.4 | 0.0  | -2.4 | -10.3 | 43.5  | 43.5  |  |
| Outdoor4                                        | Outdoor4_PA  | Point  |       |      | 141.8 | 141.8 |        | 785.92 | -68.9 | -22.4 | 0.0  | -2.1 | -12.8 | 40.8  | 40.8  |  |
| Outdoor4                                        | Outdoor4_sub | Line   |       |      | 130.7 | 145.0 | 27.2   | 798.30 | -69.0 | -16.5 | 0.0  | 0.0  | -5.2  | 57.0  | 57.0  |  |
| Indoor1                                         | Roof         | Area   | 111.3 | 28.0 | 94.1  | 137.2 | 20505. | 670.46 | -67.5 | -5.4  | 0.0  | 0.0  | 0.0   | 66.3  | 66.3  |  |
| <b>Receiver Bosrankstraat 32 Leq 73.9 dB(C)</b> |              |        |       |      |       |       |        |        |       |       |      |      |       |       |       |  |
| Outdoor3                                        |              | Area   | 114.2 | 18.0 | 107.0 | 130.0 | 200.0  | 892.76 | -70.0 | 0.1   | 0.0  | 0.0  | -0.1  | 62.6  | 62.6  |  |
| Outdoor3                                        |              | Area   | 111.6 | 18.0 | 103.7 | 128.5 | 300.0  | 906.22 | -70.1 | -4.3  | 0.0  | -0.1 | -0.1  | 56.7  | 56.7  |  |
| Outdoor3                                        |              | Area   | 111.8 | 18.0 | 104.0 | 128.8 | 300.0  | 908.80 | -70.2 | -5.8  | 0.0  | -0.1 | -0.1  | 54.4  | 54.4  |  |
| Outdoor3                                        |              | Area   | 107.9 | 18.0 | 99.4  | 122.4 | 200.0  | 922.56 | -70.3 | -10.0 | 0.0  | -0.1 | -0.1  | 44.1  | 44.1  |  |
| Outdoor3                                        |              | Area   | 114.4 | 18.0 | 107.6 | 135.4 | 600.0  | 907.58 | -70.1 | -5.1  | 0.0  | 0.0  | -0.5  | 62.3  | 62.3  |  |
| Tent1                                           |              | Area   | 116.0 | 0.0  | 113.0 | 136.0 | 200.0  | 885.64 | -69.9 | -8.3  | 0.0  | -0.1 | -9.5  | 49.9  | 49.9  |  |
| Tent1                                           |              | Area   | 117.9 | 18.0 | 110.3 | 135.1 | 300.0  | 892.62 | -70.0 | -7.8  | 0.0  | 0.0  | -10.2 | 48.7  | 48.7  |  |
| Tent1                                           |              | Area   | 117.8 | 18.0 | 110.3 | 135.0 | 300.0  | 872.95 | -69.8 | 3.3   | 0.0  | -0.1 | -10.1 | 60.8  | 60.8  |  |
| Tent1                                           |              | Area   | 113.9 | 18.0 | 106.0 | 129.0 | 200.0  | 879.85 | -69.9 | 3.1   | 0.0  | -0.1 | -9.9  | 54.7  | 54.7  |  |
| Tent1                                           |              | Area   | 116.8 | 18.0 | 109.5 | 137.2 | 600.0  | 882.69 | -69.9 | -1.3  | 0.0  | -0.1 | -10.1 | 58.2  | 58.2  |  |
| Indoor2                                         |              | Area   | 114.5 | 18.0 | 107.6 | 135.4 | 600.0  | 815.03 | -69.2 | -0.8  | 0.0  | 0.0  | -10.8 | 58.5  | 58.5  |  |
| Indoor2                                         |              | Area   | 108.4 | 18.0 | 99.5  | 122.6 | 200.0  | 810.38 | -69.2 | 2.9   | 0.0  | -0.1 | -9.6  | 49.5  | 49.5  |  |
| Indoor2                                         |              | Area   | 111.3 | 18.0 | 103.1 | 127.9 | 300.0  | 805.61 | -69.1 | 3.6   | 0.0  | -0.1 | -10.1 | 54.9  | 54.9  |  |
| Indoor2                                         |              | Area   | 112.6 | 18.0 | 104.8 | 129.5 | 300.0  | 824.65 | -69.3 | -7.5  | 0.0  | 0.0  | -10.3 | 54.4  | 54.4  |  |
| Indoor2                                         |              | Area   | 114.2 | 18.0 | 106.9 | 129.9 | 200.0  | 819.74 | -69.3 | -6.8  | 0.0  | 0.0  | -10.7 | 52.9  | 52.9  |  |
| Indoor1                                         | Facade 1     | Area   | 109.3 | 28.0 | 91.9  | 124.7 | 1905.0 | 694.90 | -67.8 | -9.4  | 0.0  | 0.0  | 0.0   | 53.5  | 53.5  |  |
| Indoor1                                         | Facade 2     | Area   | 108.6 | 28.0 | 91.2  | 125.0 | 2396.6 | 773.15 | -68.8 | -16.9 | 0.0  | 0.0  | 0.0   | 43.8  | 43.8  |  |
| Indoor1                                         | Facade 3     | Area   | 116.3 | 28.0 | 99.1  | 132.0 | 1919.1 | 855.62 | -69.6 | -18.6 | 0.0  | 0.0  | 0.0   | 48.7  | 48.7  |  |
| Indoor1                                         | Facade 4     | Area   | 111.1 | 28.0 | 93.8  | 127.7 | 2429.5 | 771.82 | -68.7 | -17.7 | 0.0  | 0.0  | 0.0   | 45.8  | 45.8  |  |
| Outdoor1                                        | Outdoor1_PAL | Point  |       |      | 146.4 | 146.4 |        | 784.56 | -68.9 | 0.1   | 0.0  | -1.5 | -14.5 | 64.1  | 64.1  |  |
| Outdoor1                                        | Outdoor1_PA  | Point  |       |      | 146.4 | 146.4 |        | 781.17 | -68.8 | -11.2 | 0.0  | -1.0 | -12.1 | 55.6  | 55.6  |  |
| Outdoor1                                        | Outdoor1_sub | Line   |       |      | 136.1 | 150.5 | 27.3   | 783.77 | -68.9 | -1.6  | 0.0  | 0.0  | -39.3 | 42.8  | 42.8  |  |
| Outdoor2                                        | Outdoor2_PAL | Point  |       |      | 132.3 | 132.3 |        | 858.91 | -69.7 | 0.9   | 0.0  | -0.6 | -4.4  | 62.2  | 62.2  |  |
| Outdoor2                                        | Outdoor2_PA  | Point  |       |      | 132.3 | 132.3 |        | 864.35 | -69.7 | -7.6  | 0.0  | -0.4 | -4.3  | 56.2  | 56.2  |  |
| Outdoor2                                        | Outdoor2_sub | Line   |       |      | 127.6 | 135.0 | 5.5    | 861.65 | -69.7 | 3.9   | 0.0  | 0.0  | -4.3  | 69.1  | 69.1  |  |
| Outdoor4                                        | Outdoor4_PAL | Point  |       |      | 141.8 | 141.8 |        | 915.52 | -70.2 | -17.3 | 0.0  | -1.4 | -8.7  | 48.9  | 48.9  |  |
| Outdoor4                                        | Outdoor4_PA  | Point  |       |      | 141.8 | 141.8 |        | 891.22 | -70.0 | -18.3 | 0.0  | -1.3 | -10.9 | 46.6  | 46.6  |  |
| Outdoor4                                        | Outdoor4_sub | Line   |       |      | 130.7 | 145.0 | 27.2   | 903.60 | -70.1 | -15.0 | 0.0  | 0.0  | -4.2  | 60.2  | 60.2  |  |
| Indoor1                                         | Roof         | Area   | 111.3 | 28.0 | 94.1  | 137.2 | 20505. | 771.44 | -68.7 | -8.8  | 0.0  | 0.0  | 0.0   | 62.7  | 62.7  |  |
| <b>Receiver BuiksloterbreekA Leq 70.5 dB(C)</b> |              |        |       |      |       |       |        |        |       |       |      |      |       |       |       |  |
| Outdoor3                                        |              | Area   | 114.2 | 18.0 | 107.0 | 130.0 | 200.0  | 691.97 | -67.8 | -13.6 | 0.0  | 0.0  | -6.1  | 47.2  | 47.2  |  |
| Outdoor3                                        |              | Area   | 111.6 | 18.0 | 103.7 | 128.5 | 300.0  | 691.21 | -67.8 | -12.5 | 0.0  | 0.0  | -5.8  | 43.9  | 43.9  |  |
| Outdoor3                                        |              | Area   | 111.8 | 18.0 | 104.0 | 128.8 | 300.0  | 708.32 | -68.0 | -14.6 | 0.0  | 0.0  | -5.9  | 43.2  | 43.2  |  |
| Outdoor3                                        |              | Area   | 107.9 | 18.0 | 99.4  | 122.4 | 200.0  | 707.63 | -68.0 | -15.9 | 0.0  | 0.0  | -5.7  | 33.1  | 33.1  |  |
| Outdoor3                                        |              | Area   | 114.4 | 18.0 | 107.6 | 135.4 | 600.0  | 699.79 | -67.9 | -11.7 | 0.0  | 0.0  | -7.0  | 50.5  | 50.5  |  |
| Tent1                                           |              | Area   | 116.0 | 0.0  | 113.0 | 136.0 | 200.0  | 800.04 | -69.1 | -14.3 | 0.0  | -0.1 | -4.6  | 48.2  | 48.2  |  |
| Tent1                                           |              | Area   | 117.9 | 18.0 | 110.3 | 135.1 | 300.0  | 817.19 | -69.2 | -14.4 | 0.0  | 0.0  | -4.8  | 46.6  | 46.6  |  |
| Tent1                                           |              | Area   | 117.8 | 18.0 | 110.3 | 135.0 | 300.0  | 801.62 | -69.1 | -10.0 | 0.0  | 0.0  | -4.6  | 51.3  | 51.3  |  |
| Tent1                                           |              | Area   | 113.9 | 18.0 | 106.0 | 129.0 | 200.0  | 819.00 | -69.3 | -15.1 | 0.0  | 0.0  | -4.6  | 40.0  | 40.0  |  |
| Tent1                                           |              | Area   | 116.8 | 18.0 | 109.5 | 137.2 | 600.0  | 809.49 | -69.2 | -10.3 | 0.0  | 0.0  | -4.8  | 52.9  | 52.9  |  |
| Indoor2                                         |              | Area   | 114.5 | 18.0 | 107.6 | 135.4 | 600.0  | 686.08 | -67.7 | -13.3 | 0.0  | 0.0  | -6.2  | 48.5  | 48.5  |  |
| Indoor2                                         |              | Area   | 108.4 | 18.0 | 99.5  | 122.6 | 200.0  | 693.20 | -67.8 | -20.4 | 0.0  | -0.1 | -4.2  | 30.3  | 30.3  |  |
| Indoor2                                         |              | Area   | 111.3 | 18.0 | 103.1 | 127.9 | 300.0  | 675.66 | -67.6 | -10.8 | 0.0  | 0.0  | -4.6  | 45.0  | 45.0  |  |
| Indoor2                                         |              | Area   | 112.6 | 18.0 | 104.8 | 129.5 | 300.0  | 691.52 | -67.8 | -18.5 | 0.0  | 0.0  | -4.7  | 38.6  | 38.6  |  |
| Indoor2                                         |              | Area   | 114.2 | 18.0 | 106.9 | 129.9 | 200.0  | 674.47 | -67.6 | -10.4 | 0.0  | 0.0  | -5.0  | 47.2  | 47.2  |  |
| Indoor1                                         | Facade 1     | Area   | 109.3 | 28.0 | 91.9  | 124.7 | 1905.0 | 516.19 | -65.2 | 3.6   | 0.0  | 0.0  | 0.0   | 66.2  | 66.2  |  |
| Indoor1                                         | Facade 2     | Area   | 108.6 | 28.0 | 91.2  | 125.0 | 2396.6 | 496.31 | -64.9 | -0.6  | 0.0  | 0.0  | 0.0   | 63.2  | 63.2  |  |
| Indoor1                                         | Facade 3     | Area   | 116.3 | 28.0 | 99.1  | 132.0 | 1919.1 | 591.04 | -66.4 | -19.5 | 0.0  | 0.0  | 0.0   | 49.4  | 49.4  |  |
| Indoor1                                         | Facade 4     | Area   | 111.1 | 28.0 | 93.8  | 127.7 | 2429.5 | 609.98 | -66.7 | -18.1 | 0.0  | 0.0  | 0.0   | 46.1  | 46.1  |  |
| Outdoor1                                        | Outdoor1_PAL | Point  |       |      | 146.4 | 146.4 |        | 791.94 | -69.0 | -18.0 | 0.0  | -1.5 | -10.4 | 47.5  | 47.5  |  |
| Outdoor1                                        | Outdoor1_PA  | Point  |       |      | 146.4 | 146.4 |        | 809.44 | -69.2 | -24.2 | 0.0  | -1.0 | -8.0  | 44.0  | 44.0  |  |
| Outdoor1                                        | Outdoor1_sub | Line   |       |      | 136.1 | 150.5 | 27.3   | 800.74 | -69.1 | -7.0  | 0.0  | 0.0  | -19.8 | 54.6  | 54.6  |  |
| Outdoor2                                        | Outdoor2_PAL | Point  |       |      | 132.3 | 132.3 |        | 723.91 | -68.2 | -16.4 | 0.0  | -0.3 | -0.4  | 50.0  | 50.0  |  |

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### **9.3 Bijdragen per podium dB(C)**

|                                                                                    |           |
|------------------------------------------------------------------------------------|-----------|
| <b>NDSM_groot</b><br><b>Assessed level of source groups</b><br><b>EnvironmentC</b> | <b>12</b> |
|------------------------------------------------------------------------------------|-----------|

| Group                                                           | Leq<br>dB(C) |  |
|-----------------------------------------------------------------|--------------|--|
| <b>Receiver 01_A Silodam      Leq 81.0      dB(C)</b>           |              |  |
| Outdoor3                                                        | 59.8         |  |
| Tent1                                                           | 62.5         |  |
| Indoor2                                                         | 58.0         |  |
| Indoor1                                                         | 70.0         |  |
| Outdoor1                                                        | 77.6         |  |
| Outdoor2                                                        | 62.6         |  |
| Outdoor4                                                        | 77.3         |  |
| <b>Receiver 02_A Containerwoningen      Leq 76.0      dB(C)</b> |              |  |
| Outdoor3                                                        | 66.3         |  |
| Tent1                                                           | 68.9         |  |
| Indoor2                                                         | 62.1         |  |
| Indoor1                                                         | 68.8         |  |
| Outdoor1                                                        | 65.7         |  |
| Outdoor2                                                        | 63.7         |  |
| Outdoor4                                                        | 71.1         |  |
| <b>Receiver 03_A Ponserstraat 2-30      Leq 68.9      dB(C)</b> |              |  |
| Outdoor3                                                        | 51.8         |  |
| Tent1                                                           | 60.5         |  |
| Indoor2                                                         | 57.2         |  |
| Indoor1                                                         | 66.1         |  |
| Outdoor1                                                        | 56.0         |  |
| Outdoor2                                                        | 53.7         |  |
| Outdoor4                                                        | 60.8         |  |
| <b>Receiver 04_A Monnikskapstraat      Leq 71.9      dB(C)</b>  |              |  |
| Outdoor3                                                        | 63.4         |  |
| Tent1                                                           | 54.0         |  |
| Indoor2                                                         | 61.7         |  |
| Indoor1                                                         | 68.8         |  |
| Outdoor1                                                        | 49.2         |  |
| Outdoor2                                                        | 65.4         |  |
| Outdoor4                                                        | 57.3         |  |
| <b>Receiver Bosrankstraat 32      Leq 73.9      dB(C)</b>       |              |  |
| Outdoor3                                                        | 66.3         |  |
| Tent1                                                           | 63.7         |  |
| Indoor2                                                         | 62.0         |  |
| Indoor1                                                         | 63.4         |  |
| Outdoor1                                                        | 64.7         |  |
| Outdoor2                                                        | 70.1         |  |
| Outdoor4                                                        | 60.7         |  |
| <b>Receiver BuiksloterbreekA      Leq 70.5      dB(C)</b>       |              |  |
| Outdoor3                                                        | 53.2         |  |
| Tent1                                                           | 56.6         |  |

|  |                                                                  |   |
|--|------------------------------------------------------------------|---|
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|--|------------------------------------------------------------------|---|

SoundPLAN 7.4

| NDSM_groot<br>Assessed level of source groups<br>EnvironmentC |                                                                  |  | 12 |
|---------------------------------------------------------------|------------------------------------------------------------------|--|----|
| Group                                                         | Leq<br>dB(C)                                                     |  |    |
| Indoor2                                                       | 52.1                                                             |  |    |
| Indoor1                                                       | 69.6                                                             |  |    |
| Outdoor1                                                      | 55.7                                                             |  |    |
| Outdoor2                                                      | 56.0                                                             |  |    |
| Outdoor4                                                      | 58.3                                                             |  |    |
| Receiver BuiksloterbreekB Leq 64.9 dB(C)                      |                                                                  |  |    |
| Outdoor3                                                      | 51.7                                                             |  |    |
| Tent1                                                         | 52.8                                                             |  |    |
| Indoor2                                                       | 46.3                                                             |  |    |
| Indoor1                                                       | 58.8                                                             |  |    |
| Outdoor1                                                      | 49.4                                                             |  |    |
| Outdoor2                                                      | 59.2                                                             |  |    |
| Outdoor4                                                      | 60.1                                                             |  |    |
| Receiver Christoffelkruidstraat 74 Leq 77.4 dB(C)             |                                                                  |  |    |
| Outdoor3                                                      | 71.9                                                             |  |    |
| Tent1                                                         | 63.9                                                             |  |    |
| Indoor2                                                       | 60.9                                                             |  |    |
| Indoor1                                                       | 72.8                                                             |  |    |
| Outdoor1                                                      | 64.5                                                             |  |    |
| Outdoor2                                                      | 69.5                                                             |  |    |
| Outdoor4                                                      | 67.0                                                             |  |    |
| Receiver Danzigerkade Leq 82.8 dB(C)                          |                                                                  |  |    |
| Outdoor3                                                      | 55.8                                                             |  |    |
| Tent1                                                         | 67.1                                                             |  |    |
| Indoor2                                                       | 57.1                                                             |  |    |
| Indoor1                                                       | 70.0                                                             |  |    |
| Outdoor1                                                      | 82.1                                                             |  |    |
| Outdoor2                                                      | 52.8                                                             |  |    |
| Outdoor4                                                      | 71.2                                                             |  |    |
| Receiver Fosfaatweg Leq 81.1 dB(C)                            |                                                                  |  |    |
| Outdoor3                                                      | 55.9                                                             |  |    |
| Tent1                                                         | 64.5                                                             |  |    |
| Indoor2                                                       | 57.6                                                             |  |    |
| Indoor1                                                       | 68.7                                                             |  |    |
| Outdoor1                                                      | 80.4                                                             |  |    |
| Outdoor2                                                      | 65.7                                                             |  |    |
| Outdoor4                                                      | 66.4                                                             |  |    |
| Receiver Happarandadam Leq 82.0 dB(C)                         |                                                                  |  |    |
| Outdoor3                                                      | 55.9                                                             |  |    |
| Tent1                                                         | 68.1                                                             |  |    |
| Indoor2                                                       | 55.6                                                             |  |    |
| Indoor1                                                       | 70.0                                                             |  |    |
| Outdoor1                                                      | 80.9                                                             |  |    |
|                                                               | Event Acoustics Proostwetering 50 NL-3543 AH Utrecht NETHERLANDS |  | 2  |

SoundPLAN 7.4

|                                                                                    |           |
|------------------------------------------------------------------------------------|-----------|
| <b>NDSM_groot</b><br><b>Assessed level of source groups</b><br><b>EnvironmentC</b> | <b>12</b> |
|------------------------------------------------------------------------------------|-----------|

| Group                                       | Leq<br>dB(C) |  |
|---------------------------------------------|--------------|--|
| Outdoor2                                    | 53.4         |  |
| Outdoor4                                    | 72.6         |  |
| Receiver HeggerankwegA Leq 66.2 dB(C)       |              |  |
| Outdoor3                                    | 55.6         |  |
| Tent1                                       | 52.1         |  |
| Indoor2                                     | 48.3         |  |
| Indoor1                                     | 57.7         |  |
| Outdoor1                                    | 44.7         |  |
| Outdoor2                                    | 63.5         |  |
| Outdoor4                                    | 58.5         |  |
| Receiver HeggerankwegB Leq 66.1 dB(C)       |              |  |
| Outdoor3                                    | 59.0         |  |
| Tent1                                       | 51.3         |  |
| Indoor2                                     | 52.2         |  |
| Indoor1                                     | 61.2         |  |
| Outdoor1                                    | 45.5         |  |
| Outdoor2                                    | 61.0         |  |
| Outdoor4                                    | 55.9         |  |
| Receiver HeggerankwegC Leq 67.1 dB(C)       |              |  |
| Outdoor3                                    | 62.6         |  |
| Tent1                                       | 53.0         |  |
| Indoor2                                     | 53.8         |  |
| Indoor1                                     | 61.3         |  |
| Outdoor1                                    | 44.8         |  |
| Outdoor2                                    | 59.3         |  |
| Outdoor4                                    | 57.9         |  |
| Receiver Magdenpalmstraat 5 Leq 71.9 dB(C)  |              |  |
| Outdoor3                                    | 61.1         |  |
| Tent1                                       | 64.9         |  |
| Indoor2                                     | 59.6         |  |
| Indoor1                                     | 66.8         |  |
| Outdoor1                                    | 62.0         |  |
| Outdoor2                                    | 65.4         |  |
| Outdoor4                                    | 55.7         |  |
| Receiver Moederkruidstraat 5 Leq 74.2 dB(C) |              |  |
| Outdoor3                                    | 61.5         |  |
| Tent1                                       | 66.3         |  |
| Indoor2                                     | 60.9         |  |
| Indoor1                                     | 70.4         |  |
| Outdoor1                                    | 62.2         |  |
| Outdoor2                                    | 66.2         |  |
| Outdoor4                                    | 63.6         |  |
| Receiver Ondinaweg Leq 74.0 dB(C)           |              |  |

|  |                                                                  |   |
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|  | Event Acoustics Proostwetering 50 NL-3543 AH Utrecht NETHERLANDS | 3 |
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SoundPLAN 7.4

| NDSM_groot<br>Assessed level of source groups<br>EnvironmentC    |              |       | 12 |
|------------------------------------------------------------------|--------------|-------|----|
| Group                                                            | Leq<br>dB(C) |       |    |
| Outdoor3                                                         | 56.7         |       |    |
| Tent1                                                            | 67.5         |       |    |
| Indoor2                                                          | 59.7         |       |    |
| Indoor1                                                          | 69.8         |       |    |
| Outdoor1                                                         | 57.7         |       |    |
| Outdoor2                                                         | 57.1         |       |    |
| Outdoor4                                                         | 68.6         |       |    |
| Receiver Outdoor1_FOH                                            | Leq 117.2    | dB(C) |    |
| Outdoor3                                                         | 68.1         |       |    |
| Tent1                                                            | 80.8         |       |    |
| Indoor2                                                          | 73.7         |       |    |
| Indoor1                                                          | 80.6         |       |    |
| Outdoor1                                                         | 117.2        |       |    |
| Outdoor2                                                         | 80.1         |       |    |
| Outdoor4                                                         | 88.0         |       |    |
| Receiver Outdoor2_FOH                                            | Leq 113.9    | dB(C) |    |
| Outdoor3                                                         | 72.3         |       |    |
| Tent1                                                            | 94.1         |       |    |
| Indoor2                                                          | 88.0         |       |    |
| Indoor1                                                          | 86.9         |       |    |
| Outdoor1                                                         | 91.5         |       |    |
| Outdoor2                                                         | 113.8        |       |    |
| Outdoor4                                                         | 89.1         |       |    |
| Receiver Outdoor4_FOH                                            | Leq 112.6    | dB(C) |    |
| Outdoor3                                                         | 74.1         |       |    |
| Tent1                                                            | 74.8         |       |    |
| Indoor2                                                          | 82.6         |       |    |
| Indoor1                                                          | 95.0         |       |    |
| Outdoor1                                                         | 71.9         |       |    |
| Outdoor2                                                         | 78.0         |       |    |
| Outdoor4                                                         | 112.5        |       |    |
| Receiver Pontsteiger                                             | Leq 81.0     | dB(C) |    |
| Outdoor3                                                         | 58.5         |       |    |
| Tent1                                                            | 63.8         |       |    |
| Indoor2                                                          | 57.3         |       |    |
| Indoor1                                                          | 69.4         |       |    |
| Outdoor1                                                         | 78.1         |       |    |
| Outdoor2                                                         | 61.0         |       |    |
| Outdoor4                                                         | 76.9         |       |    |
| Receiver Scheepsbouwweg                                          | Leq 71.4     | dB(C) |    |
| Outdoor3                                                         | 55.3         |       |    |
| Tent1                                                            | 64.0         |       |    |
| Indoor2                                                          | 57.9         |       |    |
| Event Acoustics Proostwetering 50 NL-3543 AH Utrecht NETHERLANDS |              |       | 4  |

SoundPLAN 7.4

| NDSM_groot<br>Assessed level of source groups<br>EnvironmentC |                                                                  |  | 12 |
|---------------------------------------------------------------|------------------------------------------------------------------|--|----|
| Group                                                         | Leq<br>dB(C)                                                     |  |    |
| Indoor1                                                       | 68.6                                                             |  |    |
| Outdoor1                                                      | 54.9                                                             |  |    |
| Outdoor2                                                      | 59.6                                                             |  |    |
| Outdoor4                                                      | 62.8                                                             |  |    |
| Receiver Spaarndammerdijk Leq 81.7 dB(C)                      |                                                                  |  |    |
| Outdoor3                                                      | 58.4                                                             |  |    |
| Tent1                                                         | 67.7                                                             |  |    |
| Indoor2                                                       | 56.7                                                             |  |    |
| Indoor1                                                       | 70.5                                                             |  |    |
| Outdoor1                                                      | 79.9                                                             |  |    |
| Outdoor2                                                      | 59.4                                                             |  |    |
| Outdoor4                                                      | 75.0                                                             |  |    |
| Receiver Stettineiland Leq 81.4 dB(C)                         |                                                                  |  |    |
| Outdoor3                                                      | 56.7                                                             |  |    |
| Tent1                                                         | 67.8                                                             |  |    |
| Indoor2                                                       | 56.2                                                             |  |    |
| Indoor1                                                       | 70.4                                                             |  |    |
| Outdoor1                                                      | 79.3                                                             |  |    |
| Outdoor2                                                      | 54.7                                                             |  |    |
| Outdoor4                                                      | 75.3                                                             |  |    |
| Receiver StrekkerwegA Leq 70.6 dB(C)                          |                                                                  |  |    |
| Outdoor3                                                      | 49.5                                                             |  |    |
| Tent1                                                         | 61.4                                                             |  |    |
| Indoor2                                                       | 58.9                                                             |  |    |
| Indoor1                                                       | 69.1                                                             |  |    |
| Outdoor1                                                      | 54.9                                                             |  |    |
| Outdoor2                                                      | 55.1                                                             |  |    |
| Outdoor4                                                      | 56.8                                                             |  |    |
| Receiver StrekkerwegB Leq 73.1 dB(C)                          |                                                                  |  |    |
| Outdoor3                                                      | 47.6                                                             |  |    |
| Tent1                                                         | 66.0                                                             |  |    |
| Indoor2                                                       | 60.7                                                             |  |    |
| Indoor1                                                       | 70.4                                                             |  |    |
| Outdoor1                                                      | 53.3                                                             |  |    |
| Outdoor2                                                      | 62.6                                                             |  |    |
| Outdoor4                                                      | 63.5                                                             |  |    |
| Receiver StrekkerwegC Leq 72.5 dB(C)                          |                                                                  |  |    |
| Outdoor3                                                      | 60.7                                                             |  |    |
| Tent1                                                         | 63.0                                                             |  |    |
| Indoor2                                                       | 60.2                                                             |  |    |
| Indoor1                                                       | 69.7                                                             |  |    |
| Outdoor1                                                      | 57.4                                                             |  |    |
| Outdoor2                                                      | 58.2                                                             |  |    |
|                                                               | Event Acoustics Proostwetering 50 NL-3543 AH Utrecht NETHERLANDS |  | 5  |

SoundPLAN 7.4

|                                                                                    |           |
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| <b>NDSM_groot</b><br><b>Assessed level of source groups</b><br><b>EnvironmentC</b> | <b>12</b> |
|------------------------------------------------------------------------------------|-----------|

|       |              |  |
|-------|--------------|--|
| Group | Leq<br>dB(C) |  |
|-------|--------------|--|

|                       |          |       |
|-----------------------|----------|-------|
| Outdoor4              | 64.5     |       |
| Receiver StrekkerwegD | Leq 69.6 | dB(C) |
| Outdoor3              | 56.2     |       |
| Tent1                 | 61.4     |       |
| Indoor2               | 56.9     |       |
| Indoor1               | 66.1     |       |
| Outdoor1              | 56.6     |       |
| Outdoor2              | 56.7     |       |
| Outdoor4              | 62.5     |       |
| Receiver Tasmanstraat | Leq 80.6 | dB(C) |
| Outdoor3              | 60.2     |       |
| Tent1                 | 65.9     |       |
| Indoor2               | 57.9     |       |
| Indoor1               | 72.0     |       |
| Outdoor1              | 77.6     |       |
| Outdoor2              | 61.5     |       |
| Outdoor4              | 75.4     |       |

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|  | Event Acoustics Proostwetering 50 NL-3543 AH Utrecht NETHERLANDS | 6 |
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SoundPLAN 7.4

## 9.4 Immissiespectra

**NDSM\_groot**  
**Assessed receiver spectra in dB(A) - EnvironmentC**

| time slice                                        | 63Hz  | 125Hz | 250Hz | 500Hz | 1kHz  | 2kHz  | 4kHz  | 8kHz  |  |
|---------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|                                                   | dB(C) | dB(C) | dB(C) | dB(C) | dB(C) | dB(C) | dB(C) | dB(C) |  |
| Receiver 01 A Silodam Leq 81.0 dB(C)              |       |       |       |       |       |       |       |       |  |
| Leq                                               | 77.1  | 75.1  | 61.7  | 53.4  | 46.3  | 38.3  | 25.8  | -7.4  |  |
| Receiver 02 A Containerwoningen Leq 76.0 dB(C)    |       |       |       |       |       |       |       |       |  |
| Leq                                               | 71.8  | 66.2  | 54.2  | 45.0  | 37.0  | 30.7  | 23.9  | 9.3   |  |
| Receiver 03 A Ponserstraat 2-30 Leq 68.9 dB(C)    |       |       |       |       |       |       |       |       |  |
| Leq                                               | 63.8  | 51.8  | 41.0  | 35.7  | 34.4  | 34.7  | 26.8  | 10.4  |  |
| Receiver 04 A Monnikskapstraat Leq 71.9 dB(C)     |       |       |       |       |       |       |       |       |  |
| Leq                                               | 67.7  | 56.5  | 46.6  | 34.1  | 25.2  | 19.2  | 7.6   | -22.3 |  |
| Receiver Bosrankstraat 32 Leq 73.9 dB(C)          |       |       |       |       |       |       |       |       |  |
| Leq                                               | 69.4  | 63.4  | 61.5  | 49.1  | 39.8  | 32.3  | 18.1  | -12.9 |  |
| Receiver BuiskloterbreekA Leq 70.5 dB(C)          |       |       |       |       |       |       |       |       |  |
| Leq                                               | 66.8  | 53.7  | 37.8  | 28.9  | 16.2  | 15.4  | 4.8   | -20.0 |  |
| Receiver BuiskloterbreekB Leq 64.9 dB(C)          |       |       |       |       |       |       |       |       |  |
| Leq                                               | 59.1  | 43.2  | 31.1  | 26.5  | 35.5  | 36.8  | 28.6  | -0.7  |  |
| Receiver Christoffelkruidstraat 74 Leq 77.4 dB(C) |       |       |       |       |       |       |       |       |  |
| Leq                                               | 73.2  | 65.5  | 61.6  | 51.6  | 46.4  | 39.0  | 26.5  | -5.7  |  |
| Receiver Danzigerkade Leq 82.8 dB(C)              |       |       |       |       |       |       |       |       |  |
| Leq                                               | 79.4  | 69.7  | 61.1  | 50.9  | 45.8  | 38.0  | 22.7  | -16.6 |  |
| Receiver Fosfaatweg Leq 81.1 dB(C)                |       |       |       |       |       |       |       |       |  |
| Leq                                               | 78.0  | 71.8  | 59.1  | 46.1  | 38.3  | 28.2  | 10.6  |       |  |
| Receiver Happarandadam Leq 82.0 dB(C)             |       |       |       |       |       |       |       |       |  |
| Leq                                               | 78.5  | 69.7  | 61.2  | 51.3  | 44.1  | 36.0  | 20.3  | -19.5 |  |
| Receiver HeggerankwegA Leq 66.2 dB(C)             |       |       |       |       |       |       |       |       |  |
| Leq                                               | 60.5  | 47.8  | 34.2  | 23.9  | 16.7  | 11.7  | -2.6  |       |  |
| Receiver HeggerankwegB Leq 66.1 dB(C)             |       |       |       |       |       |       |       |       |  |
| Leq                                               | 60.9  | 50.5  | 36.1  | 24.3  | 13.7  | 6.7   | -8.3  |       |  |
| Receiver HeggerankwegC Leq 67.1 dB(C)             |       |       |       |       |       |       |       |       |  |
| Leq                                               | 62.3  | 52.8  | 39.7  | 29.9  | 18.8  | 11.2  | -4.4  |       |  |
| Receiver Magdenpalmstraat 5 Leq 71.9 dB(C)        |       |       |       |       |       |       |       |       |  |
| Leq                                               | 67.7  | 61.6  | 56.9  | 45.8  | 35.1  | 25.8  | 12.9  | -15.3 |  |
| Receiver Moederkruidstraat 5 Leq 74.2 dB(C)       |       |       |       |       |       |       |       |       |  |
| Leq                                               | 70.1  | 62.9  | 56.7  | 46.4  | 36.2  | 27.1  | 14.6  | -11.6 |  |
| Receiver Ondinaweg Leq 74.0 dB(C)                 |       |       |       |       |       |       |       |       |  |
| Leq                                               | 69.8  | 58.3  | 47.3  | 37.9  | 32.7  | 27.3  | 20.2  | 7.0   |  |
| Receiver Outdoor1 FOH Leq 117.2 dB(C)             |       |       |       |       |       |       |       |       |  |
| Leq                                               | 114.1 | 107.3 | 98.4  | 96.8  | 92.6  | 88.5  | 84.2  | 77.5  |  |
| Receiver Outdoor2 FOH Leq 113.9 dB(C)             |       |       |       |       |       |       |       |       |  |
| Leq                                               | 110.8 | 103.1 | 102.0 | 95.4  | 89.4  | 90.2  | 86.8  | 83.3  |  |
| Receiver Outdoor4 FOH Leq 112.6 dB(C)             |       |       |       |       |       |       |       |       |  |

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SoundPLAN 7.4

**NDSM\_groot**  
**Assessed receiver spectra in dB(A) - EnvironmentC**

| time slice | 63Hz  | 125Hz | 250Hz | 500Hz | 1kHz  | 2kHz  | 4kHz  | 8kHz  |  |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|            | dB(C) | dB(C) | dB(C) | dB(C) | dB(C) | dB(C) | dB(C) | dB(C) |  |

|                           |                |       |      |      |      |      |      |       |  |
|---------------------------|----------------|-------|------|------|------|------|------|-------|--|
| Leq                       | 109.1          | 103.7 | 96.0 | 98.4 | 93.3 | 90.5 | 86.1 | 79.4  |  |
| Receiver Pontsteiger      | Leq 81.0 dB(C) |       |      |      |      |      |      |       |  |
| Leq                       | 76.8           | 73.9  | 62.6 | 53.4 | 47.0 | 40.6 | 27.1 | -5.5  |  |
| Receiver Scheepsbouwweg   | Leq 71.4 dB(C) |       |      |      |      |      |      |       |  |
| Leq                       | 66.8           | 54.7  | 38.6 | 34.2 | 33.8 | 32.8 | 25.0 | 2.7   |  |
| Receiver Spaarndammerdijk | Leq 81.7 dB(C) |       |      |      |      |      |      |       |  |
| Leq                       | 77.8           | 67.2  | 56.9 | 48.0 | 40.8 | 31.5 | 13.5 |       |  |
| Receiver Stettineiland    | Leq 81.4 dB(C) |       |      |      |      |      |      |       |  |
| Leq                       | 77.8           | 70.2  | 61.3 | 51.5 | 46.2 | 38.1 | 22.9 | -13.7 |  |
| Receiver StrekkerwegA     | Leq 70.6 dB(C) |       |      |      |      |      |      |       |  |
| Leq                       | 65.4           | 54.5  | 38.0 | 31.1 | 25.0 | 22.1 | 13.0 | -7.8  |  |
| Receiver StrekkerwegB     | Leq 73.1 dB(C) |       |      |      |      |      |      |       |  |
| Leq                       | 68.0           | 52.3  | 39.3 | 31.1 | 29.1 | 27.2 | 18.9 | 1.7   |  |
| Receiver StrekkerwegC     | Leq 72.5 dB(C) |       |      |      |      |      |      |       |  |
| Leq                       | 68.1           | 56.7  | 39.9 | 32.1 | 34.7 | 34.6 | 26.6 | 8.4   |  |
| Receiver StrekkerwegD     | Leq 69.6 dB(C) |       |      |      |      |      |      |       |  |
| Leq                       | 64.2           | 49.8  | 36.4 | 34.7 | 34.7 | 33.4 | 25.1 | 7.6   |  |
| Receiver Tasmanstraat     | Leq 80.6 dB(C) |       |      |      |      |      |      |       |  |
| Leq                       | 76.3           | 67.4  | 57.9 | 50.0 | 43.0 | 34.1 | 17.3 | -25.5 |  |

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|  | Event Acoustics Proostwetering 50 NL-3543 AH Utrecht NETHERLANDS | 2 |
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SoundPLAN 7.4

