

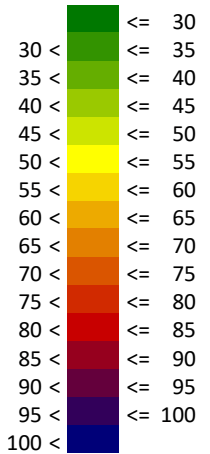
Volvo Trucks HRS Gent Belgium

Feb. 2024
Base Layout

With Fill Trailer Solid
Gates, North & East,
4 CHC Walls Added
W/Bottom Gap

Noise plot lines drawn at 1.5M elevation above grade,
Topographic elevations included in results
Existing Background Noise Not included
Non-venting case
Dark Noise Line Drawn @ 40 dBA (Target Residential Max Level)
Truck Operation Assumed at H2 Refueling Dispensers 3 & 4 , & Milence Fuel Bays 4 & 6
(used 84dBA Sound Power, Ea Truck, 4 Trucks)
3M High X 118M Long (total) Fire Walls Assumed as Follows:
3M High X 19.1M Long Fire Wall assumed South of LHY Equip (South of Fill Trailer)
(Non-noise adsorptive material (Hi Reflections)
3M High X 29.9M Long Fire Wall on West and NW Boundary of HRS Layout
(Non-noise adsorptive material (Hi Reflections)
3M High X 27.8M Long Fire Wall on North & NE Boundary of HRS Layout
(Non-noise adsorptive material (Hi Reflections)
3M High X 14.4M Long Fire Wall on South & SE Boundary of HRS Layout
(Non-noise adsorptive material (Hi Reflections)
3M High X 6.3M Long (Ea. Gate) Solid Gate added at West and East End on LHY Trailer Fill Lane
4.14M High X 14.2M Long Noise Wall added at South and SE of HRS
(Non-noise adsorptive material (Hi Reflections)
4.14M High X 35M Long (Total) Four Noise Walls Around CHC's, Each W/2M Wide Eve @ 45 Degrees at Top
Includes High Adsorption material (NRC=0.85 Min) on CHC side of wall and 0.5M Bottom Gap at wall Base
Existing Highway Sound Barriers included in results
Instrument Air (IA)-Compressor assumed 59dBA@1M with tolerance
1 of 2 BDI Chillers assumed in Operation - Each assumed at 69 dBA @1M with tol.
Switch Room @ 2.4M room height
3 of 4- LHY CHC's in Operation,
(used 108.4 dBA Sound Power, ~97.7 dBA Sound Pressure. Ea..

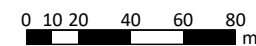
Noise level
Leq,d
in dB(A)



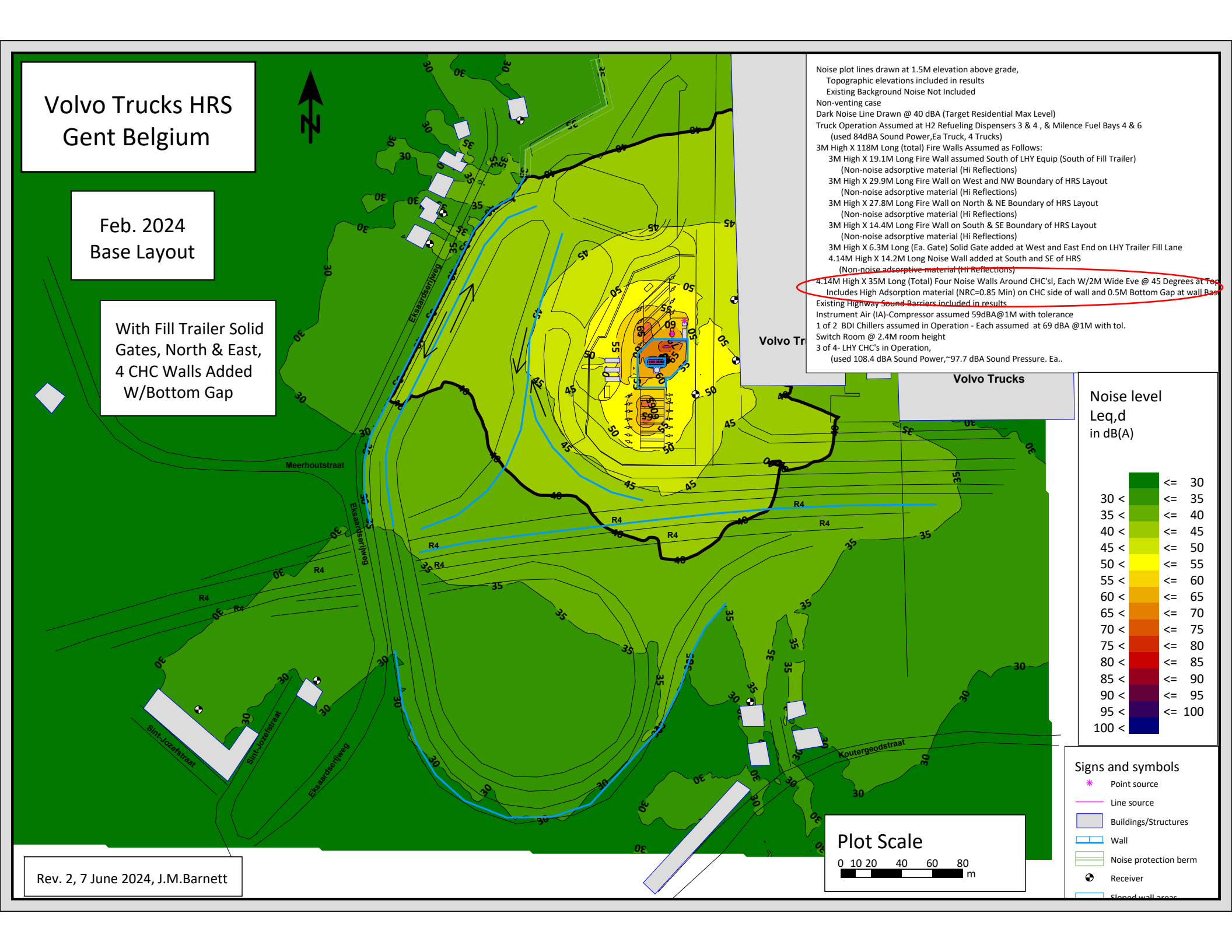
Signs and symbols

- * Point source
- Line source
- ▭ Buildings/Structures
- ▭ Wall
- ▭ Noise protection berm
- ⊙ Receiver
- ▭ Sloped wall area

Plot Scale



Rev. 2, 7 June 2024, J.M.Barnett



3-D Model View Looking From SE to NW

