APPENDIX 15

CONTOUR PLOTS FOR AIR POLLUTANTS
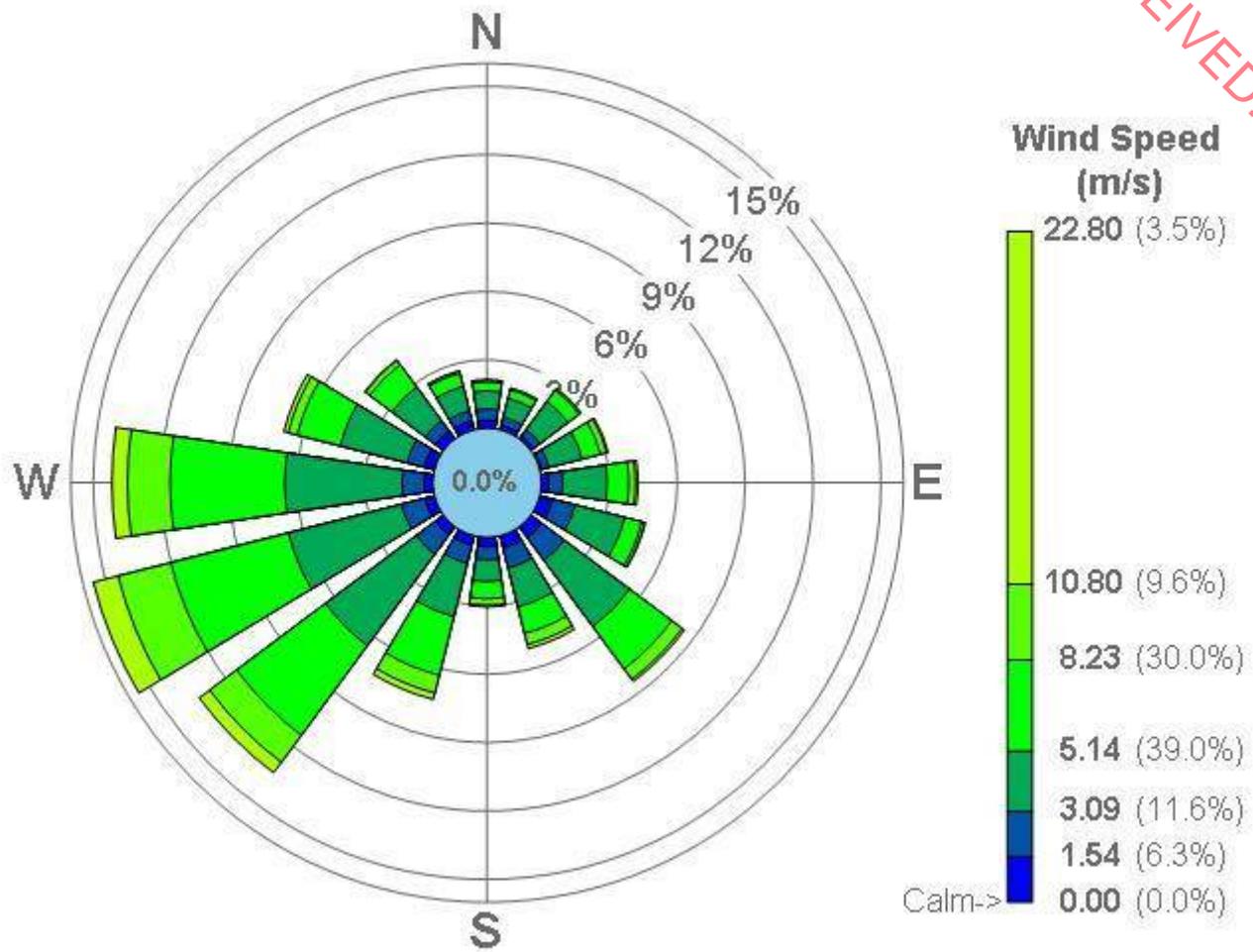
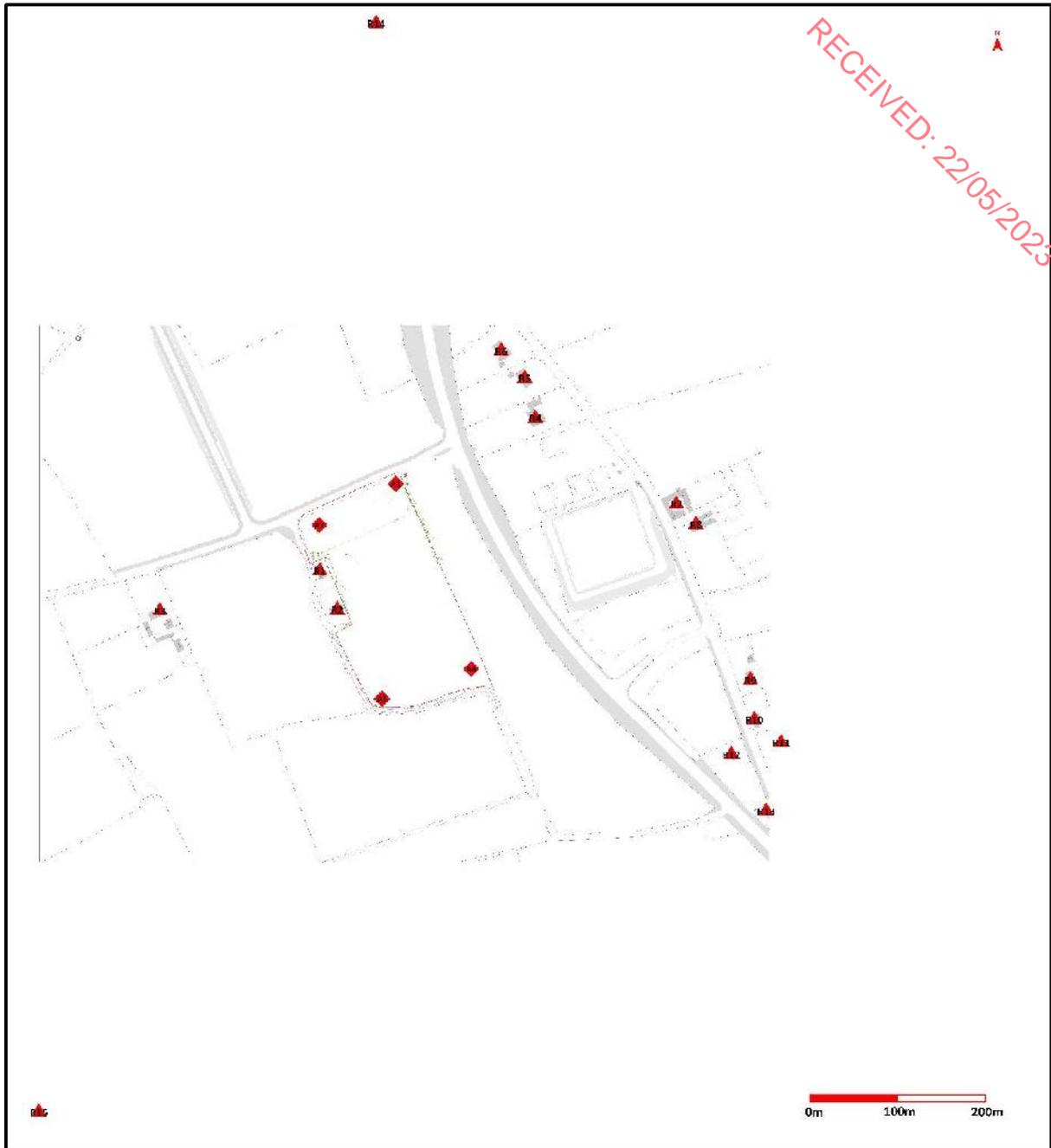Figure 11.1. Windrose plot for Dublin Airport 2015 to 2019.

Figure 11.2. Location map of ambient air quality monitoring locations within the proposed site boundary.

Figure 11.3. Hibernia Steel Facility layout, relative location of receptors and location of proposed emission points located within the boundary of the facility.
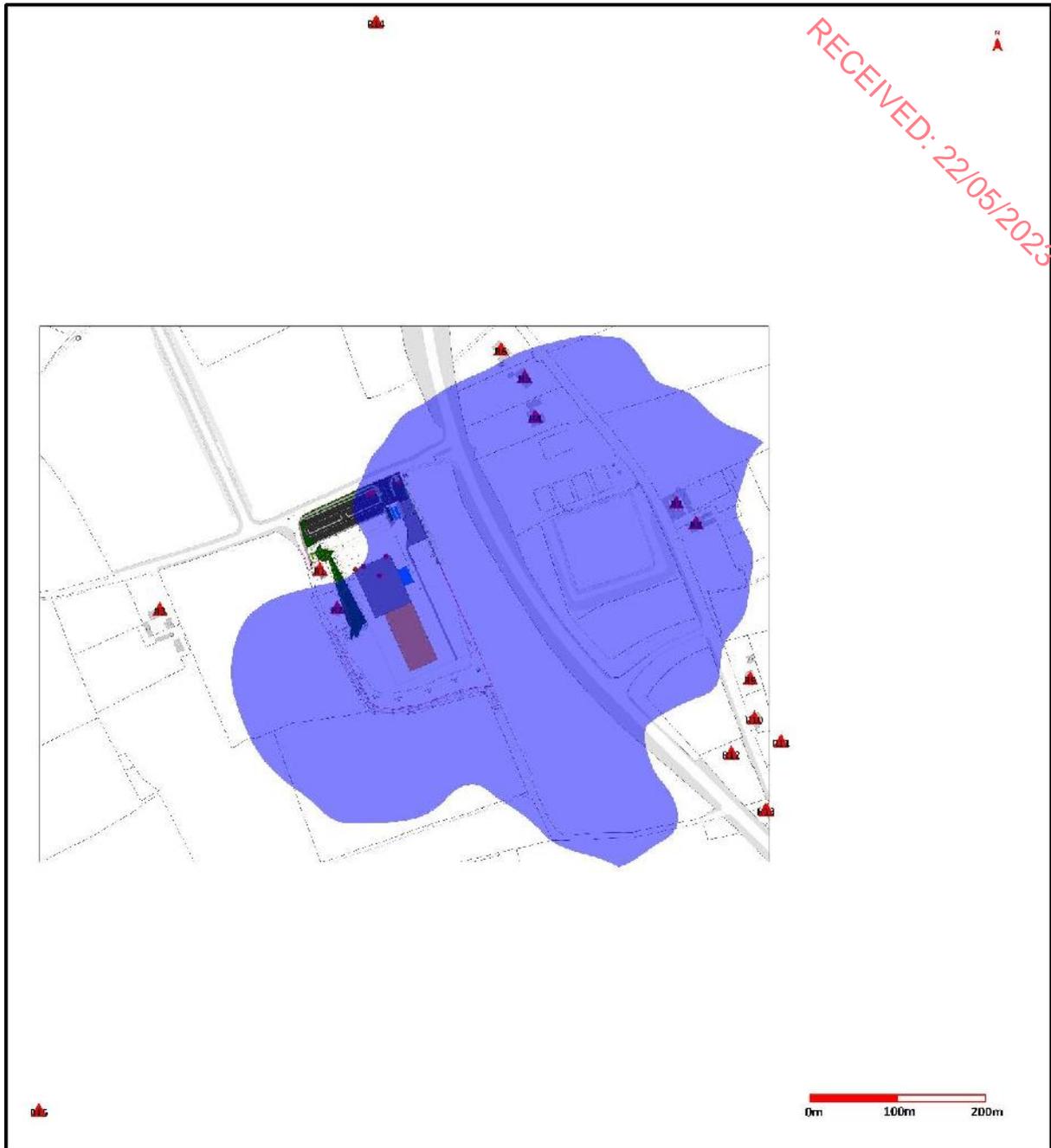
Figure 11.4. Predicted NO_x as NO_2 emission contribution of proposed facility operation to NO_x as NO_2 plume dispersal for an NO_x as NO_2 concentration of less than or equal to 10 μg/m^3 (▬▬) for the 99.79th percentile of hourly averages for worst case meteorological year Dublin 2019.
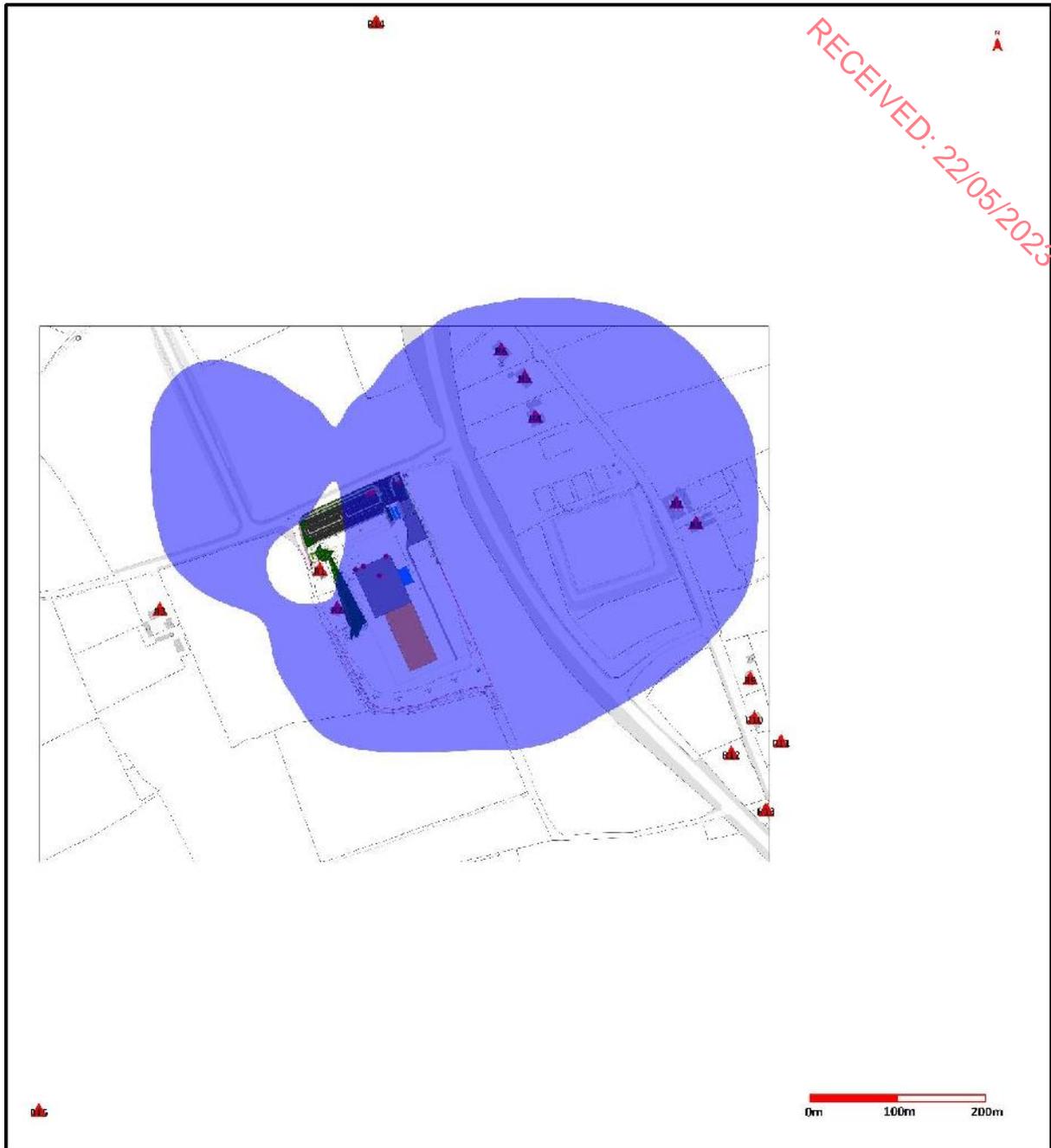
Figure 11.5. Predicted NO$_X$ as NO$_2$ emission contribution of proposed facility operation to NO$_X$ as NO$_2$ plume dispersal for an NO$_X$ as NO$_2$ concentration of less than or equal to 0.60 μg/m^3 (▬▬) for the Annual average for worst case meteorological year Dublin Airport 2019.

Figure 11.6. Predicted PM_{10} emission contribution of proposed facility operation to PM_{10} plume dispersal for an PM_{10} concentration of less than or equal to 0.60 $\mu g/m^3$ (▬▬) for the 90.40th percentile of 24 hour averages for worst case meteorological year Dublin Airport 2019.

Figure 11.7. Predicted PM_{10} emission contribution of proposed facility operation to PM_{10} plume dispersal for a PM_{10} concentration of less than or equal to 0.20 $\mu g/m^3$ (▬▬▬) for the Annual average for worst case meteorological year Dublin Airport 2019.
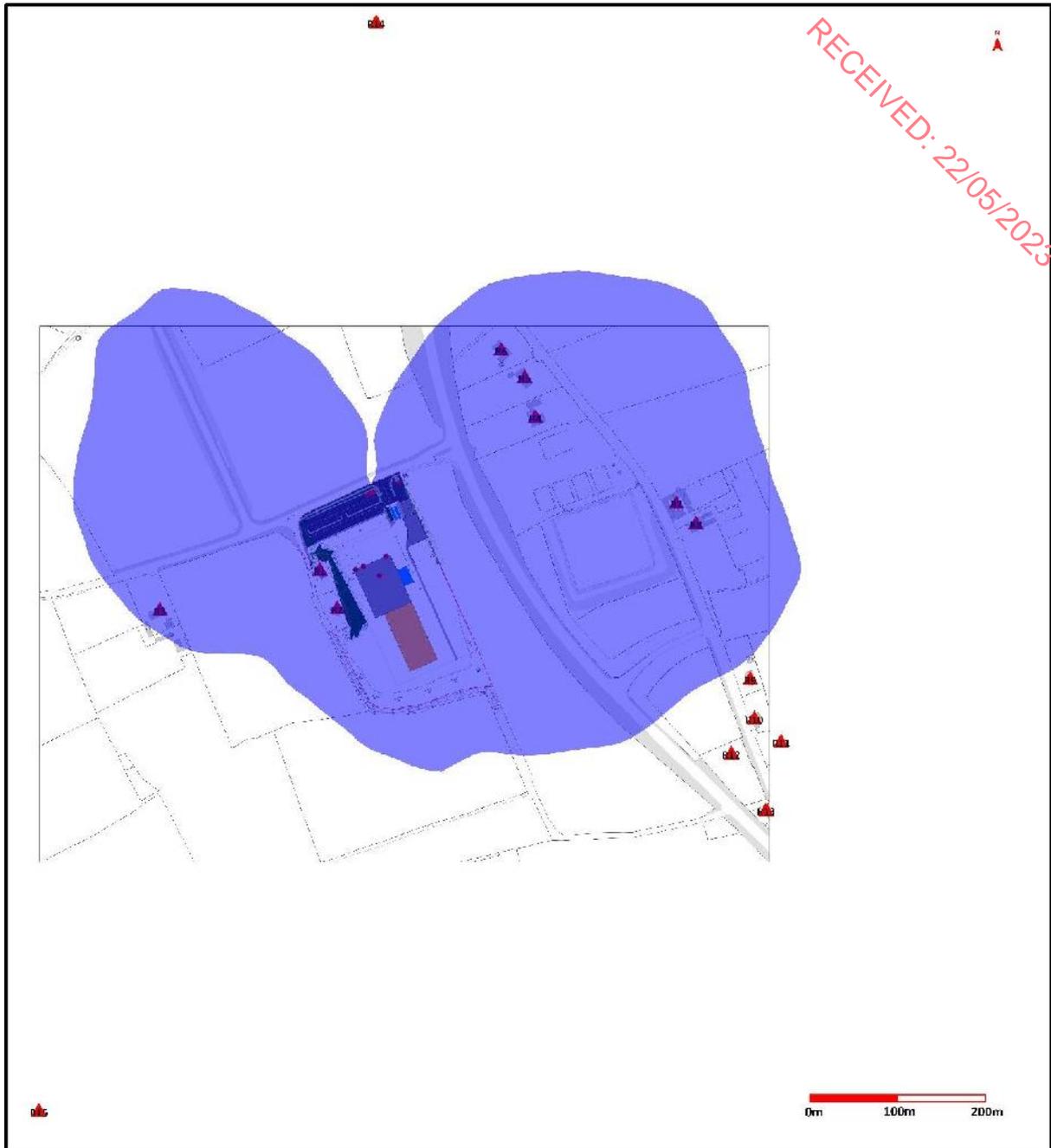
Figure 11.8. Predicted PM$_{2.5}$ emission contribution of proposed facility operation to PM$_{2.5}$ plume dispersal for a PM$_{2.5}$ concentration of less than or equal to 0.20 μg/m^3 (▬▬) for the Annual average for worst case meteorological year Dublin Airport 2019.
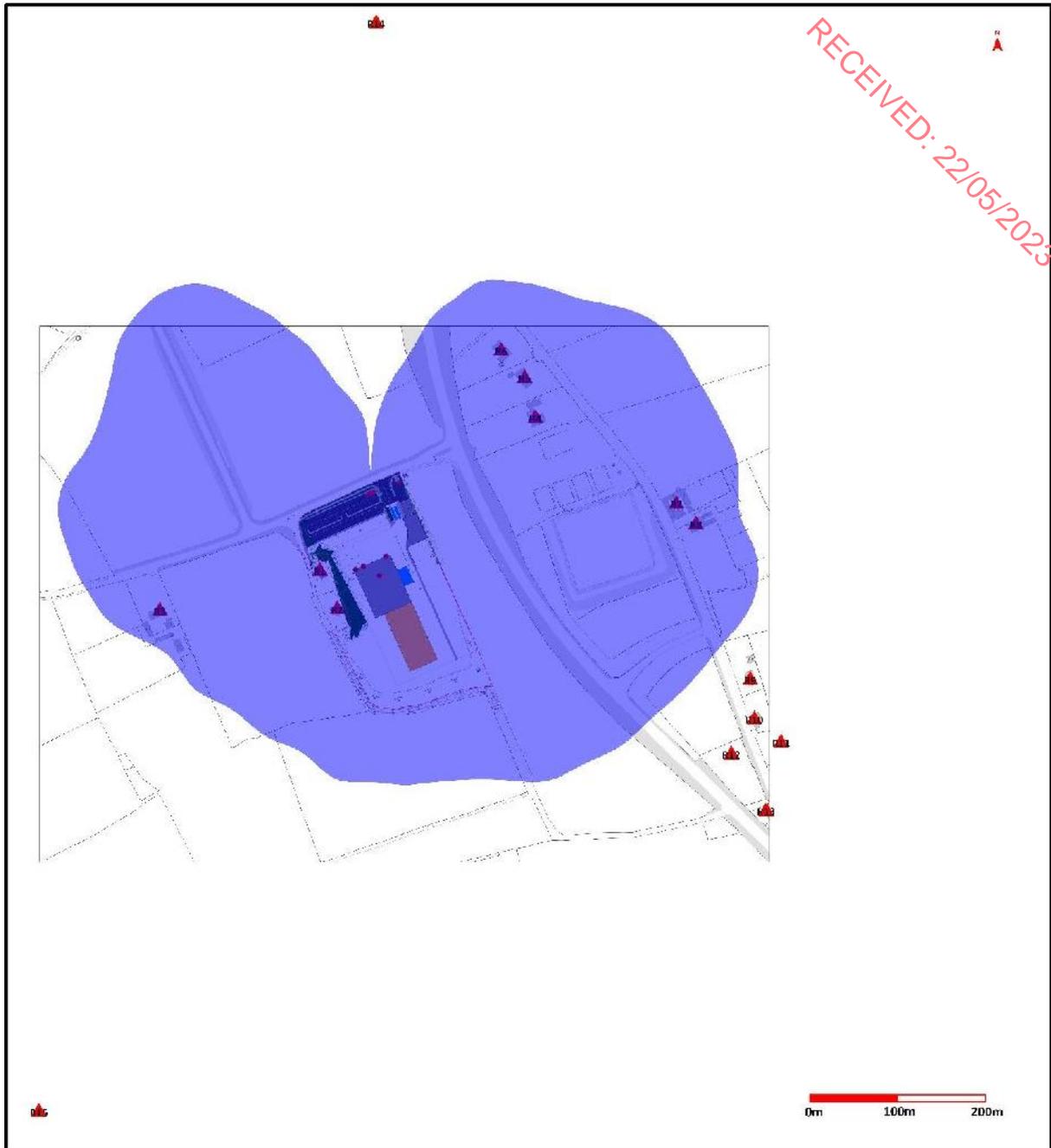
Figure 11.9. Predicted HCL emission contribution of proposed facility operation to HCL plume dispersal for an HCL concentration of less than or equal to 2.0 µg/m^3 (▬▬) for the 98th percentile of hourly averages for worst case meteorological year Dublin Airport 2019.

Figure 11.10. Predicted HCL emission contribution of proposed facility operation to HCL plume dispersal for a HCL concentration of less than or equal to 0.20 μg/m³ (▬▬) for the Annual average for worst case meteorological year Dublin Airport 2019.
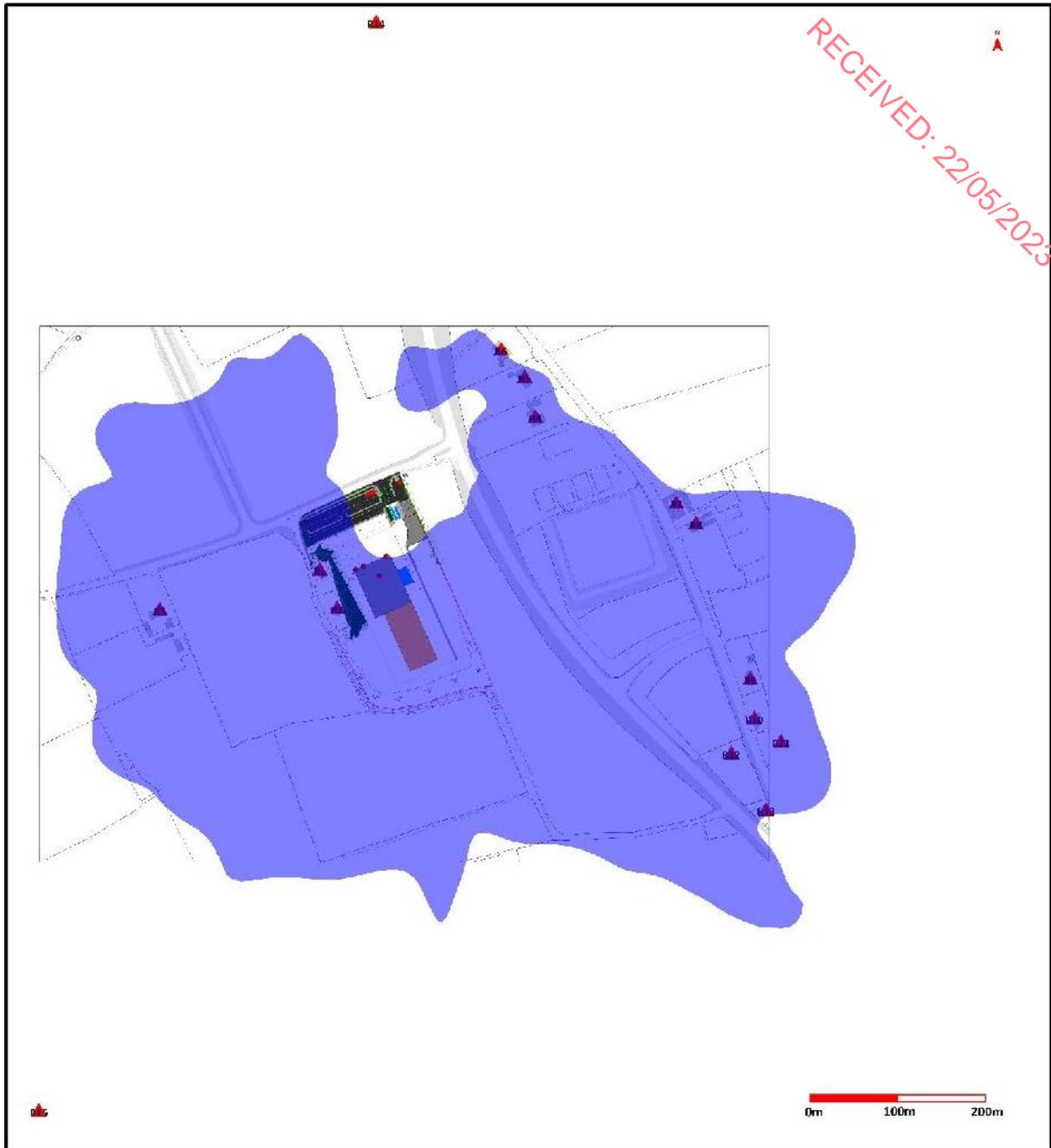
Figure 11.11. Predicted NH$_3$ emission contribution of proposed facility operation to NH$_3$ plume dispersal for an NH$_3$ concentration of less than or equal to 7.0 μg/m^3 (▬▬) for the 100th percentile of hourly averages for worst case meteorological year Dublin Airport 2019.
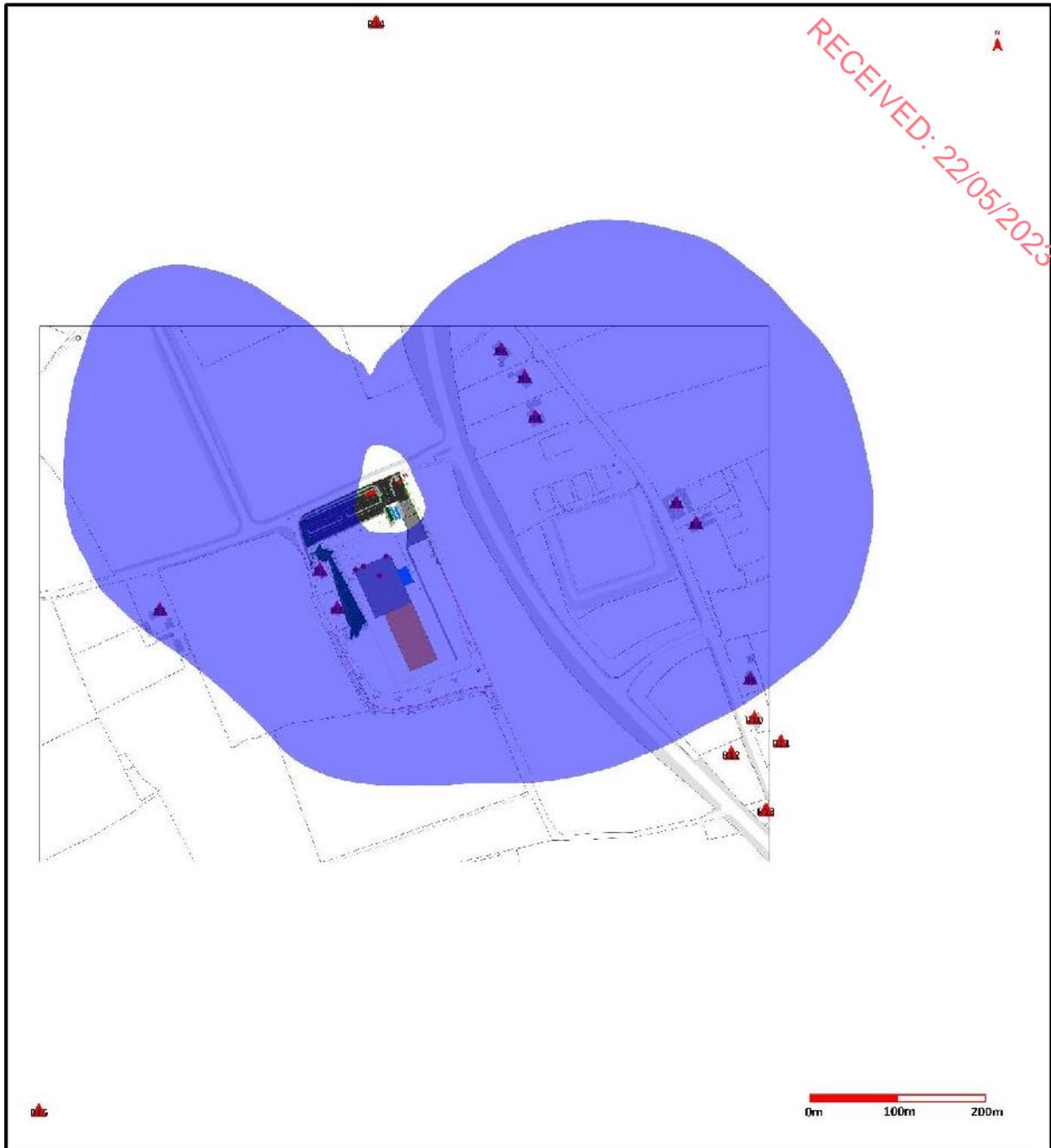
Figure 11.12. Predicted NH$_3$ emission contribution of proposed facility operation to NH$_3$ plume dispersal for an NH$_3$ concentration of less than or equal to 0.25 μg/m^3 (▬▬▬) for the Annual averages for worst case meteorological year Dublin Airport 2019.