

ENVIRONMENTAL IMPACT STUDY, FROM THE POINT OF VIEW OF THE OPPORTUNITY OF RELOCATION OF THE TM-1 STATION IN THE FRAMEWORK OF THE NATIONAL AIR QUALITY RESORT STATIONS

Goal of the project

The study thus supports with scientific arguments (on-line monitoring and updated dispersion study on the structure of the traffic, provided by the beneficiary) the possibility of moving the air quality monitoring station from the present position, being motivated by the current tendency of modernization of the municipality through the implementation of the works of Șagului Road - Ana Ipătescu section with the administrative limit of Timișoara municipality.

Short description of the project

The contract provided:

- A dispersion study on the environmental impact of the modernization project in the exploitation phase;
- Critical analysis of the state of modernization of the Șag Path - Ana Ipătescu section, regarding the location of the TM-1 station;
- Conclusions regarding the possibility of relocation of the TM-1 station to the new location.

It is noted that the study, based on the contract, only refers to air quality, meaning that only the influence of the expected area development project on air quality is analyzed.

Implementation period

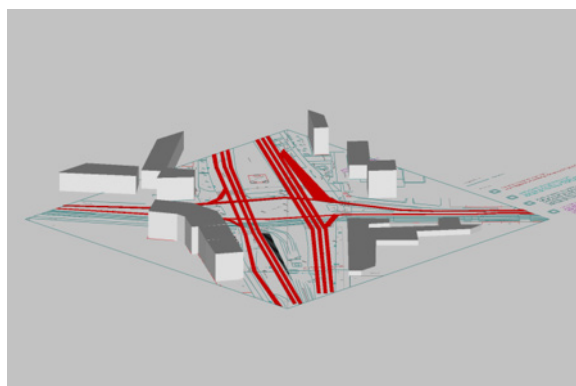
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Main activities

Phase I - Measurements of air quality (concentrations of major pollutants: NO, NO₂, NO_x, CO, VOC, PM₁₀) using credited procedures conforming to the RENAR authorization owned;

Phase II - Numerical simulation of dispersions (for NO_x species), having the stages

Phase III. Explanations supporting point of view and conclusions, resulting from the complex analysis of points I and II, with reference to TM-1 station monitoring capability in the two new locations proposed by the study.



Applicability and transferability of the results

Transferability:

- Other similar development strategies of the city
- Modality to achieve the validation of the numerical simulation by using an on line monitoring campaign, on spot.

Applicability

The relocation of the station to POSITION 1 or POSITION 2 from the present position would have an advantage over this location because the proposed variants comply with the provisions of Annex no. 5 point 2 of the Law no. 104/2011, corroborated with the provisions of GD no. 336/2015 as updated in 2016 and in force at the date of this report, in compliance with the limit values set for the purpose of human health protection. Thus, one concluded that the concentration values that are allowed for following situation are totally respected:

- All locations in areas where the public has no access and where there are no permanent dwellings;
- On the roadside and on the road, as well as on the spaces separating the direction of their journeys, except where pedestrians normally have access to those spaces.

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Research Centre

Research Center for Machinery and Thermal Equipment, Transport and Pollution Control

Research team

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