

CONTENTS

EXECUTIVE SUMMARY	3
INTRODUCTION	7
1. INPUT DATA PROVIDED BY THE NETHERLANDS	9
1.1. Emission data of lead in the Netherlands	9
1.2. Monitoring data	11
2. MODEL ASSESSMENT FOR THE NETHERLANDS	13
2.1. Air concentrations and deposition of lead in the Netherlands with fine spatial resolution	13
2.2. Source-receptor relationships for individual provinces	16
2.3. Contribution of the Dutch provinces to transboundary transport within the country and to the EMEP region	19
2.4. Contribution of key source categories to lead pollution in the Netherlands	21
3. EVALUATION AND ANALYSIS OF MODELLING RESULTS	27
3.1. Comparison of modelled and measured concentrations	27
3.2. Application of inverse modelling approach	29
3.3. Comparison of improved modelling results with measurements	33
CONCLUSIONS	37
REFERENCES	39
Annex A. INPUT INFORMATION AND BRIEF MODEL DESCRIPTION FOR MODELING WITH FINE (5X5 KM ²) SPATIAL RESOLUTION FOR THE NETHERLANDS	41
A.1. Preparation of meteorological and geophysical information	41
A.2. Brief model description	42
Annex B. REGULAR INFORMATION ON LEAD POLLUTION LEVELS IN THE NETHERLANDS (50X50 KM ²)	45
Annex C. SOURCE-RECEPTOR DEPOSITION MATRICES FOR THE NETHERLANDS IN 2007	49
Annex D. DEPOSITION FROM EMISSION SOURCE CATEGORIES OF THE NETHERLANDS TO PROVINCES OF THE COUNTRY	51