

AERIUS CALCULATOR

Dit document bevat resultaten van een stikstofdepositieberekening met AERIUS Calculator. U dient dit document te gebruiken ter onderbouwing van een vergunningaanvraag in het kader van de Wet natuurbescherming.

De resultaten geven de stikstofeffecten van deze activiteit weer voor Natura 2000-gebieden. AERIUS Calculator maakt enkel voor de PAS-gebieden inzichtelijk welke stikstofgevoelige habitattypen er voor komen en op welke hiervan een effect is. Op basis hiervan is aangegeven voor hoeveel hectares ontwikkelingsruimte benodigd is.

De berekening op basis van stikstofemissies gaat uit van de componenten ammoniak (NH_3) en stikstofoxide (NO_x), of één van beide. Hiermee is de depositie van de activiteit berekend en uitgewerkt.

Wilt u verder rekenen of gegevens wijzigen? Importeer de pdf dan in de Calculator.

Calculation Situation 1

- ▶ Characterization
- ▶ Emission
- ▶ Deposition nature areas
- ▶ Deposition habitat types

Further explanation of this PDF can be found in a corresponding tassel. This reading guide and other documentation can be accessed via: www.aerius.nl.

AERIUS CALCULATOR

Contact

Legal entity	Facility Location
Waterschap Vallei en Veluwe	Dwarsweg 5, 6715 AT Ede

Activity

Description	AERIUS reference
rwzi Ede	RssfsdytAnDe

Calculation date	Calculation year
01 February 2017, 20:19	2017

Total emission

	Situation 1	Situation 2	Difference
NOx	6,599.77 kg/y	6,253.77 kg/y	-346.00 kg/y
NH ₃	< 1 kg/y	< 1 kg/y	-

Deposition

Hectare with highest delta project contribution (mol/ha/y)

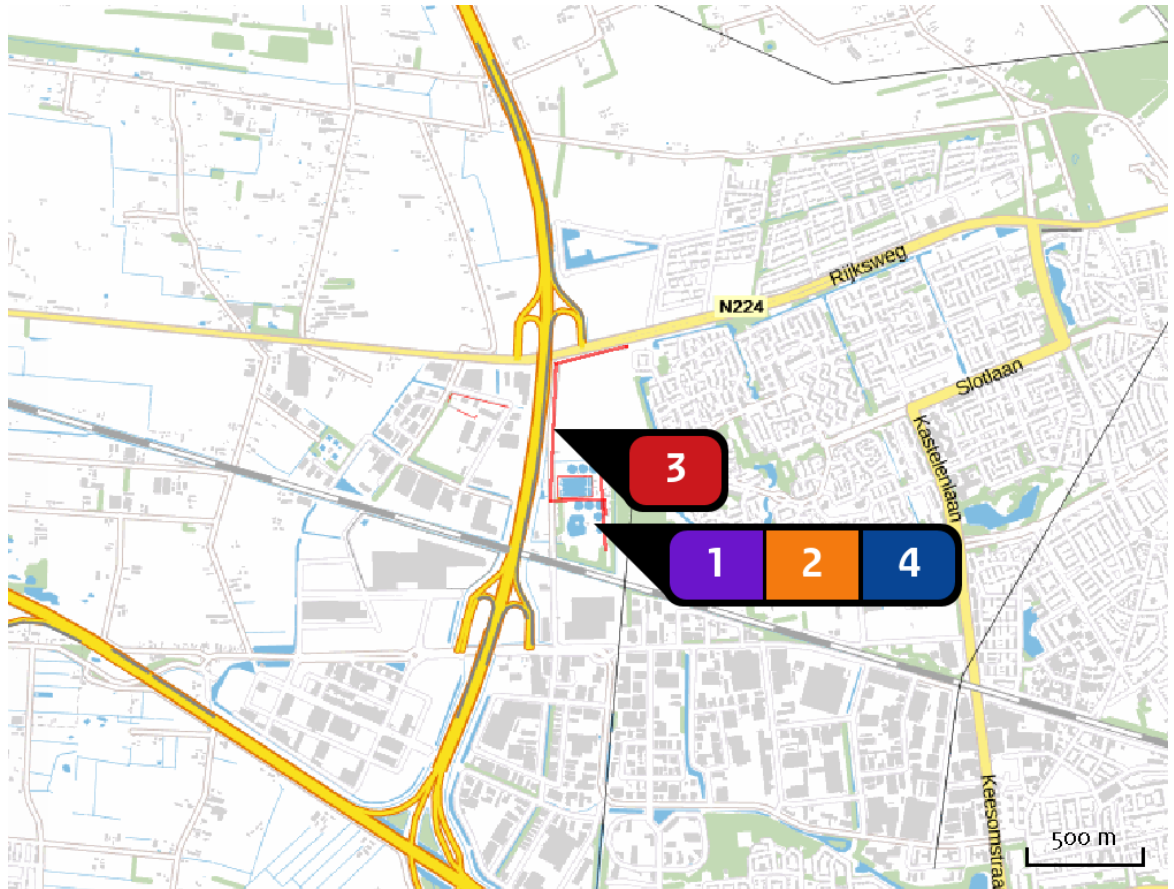
Nature area	Province
-	-

Situation 1
-

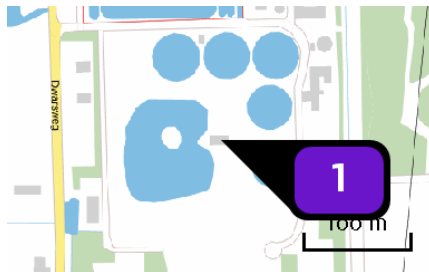
Explanation

vergelijking situatie rwzi Ede

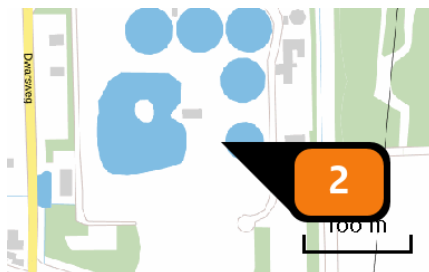
Location
Situation 1



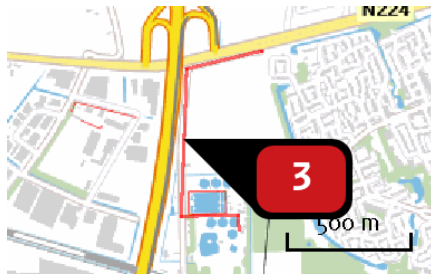
Emission
(by source)
Situation 1



Name	WKK
Location (X,Y)	171094, 450100
Height	7.0 m
Heat content	0.076 MW
Diurnal variation	Standard profile industry
NOx	6,532.00 kg/y

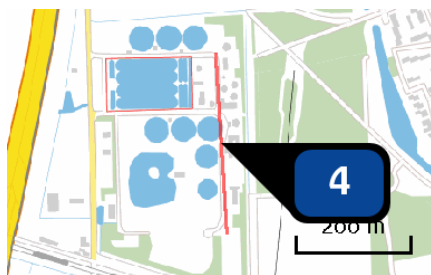


Name	CV-ketel
Location (X,Y)	171119, 450073
Height	4.0 m
Heat content	0.000 MW
Diurnal variation	Standard profile industry
NOx	63.00 kg/y



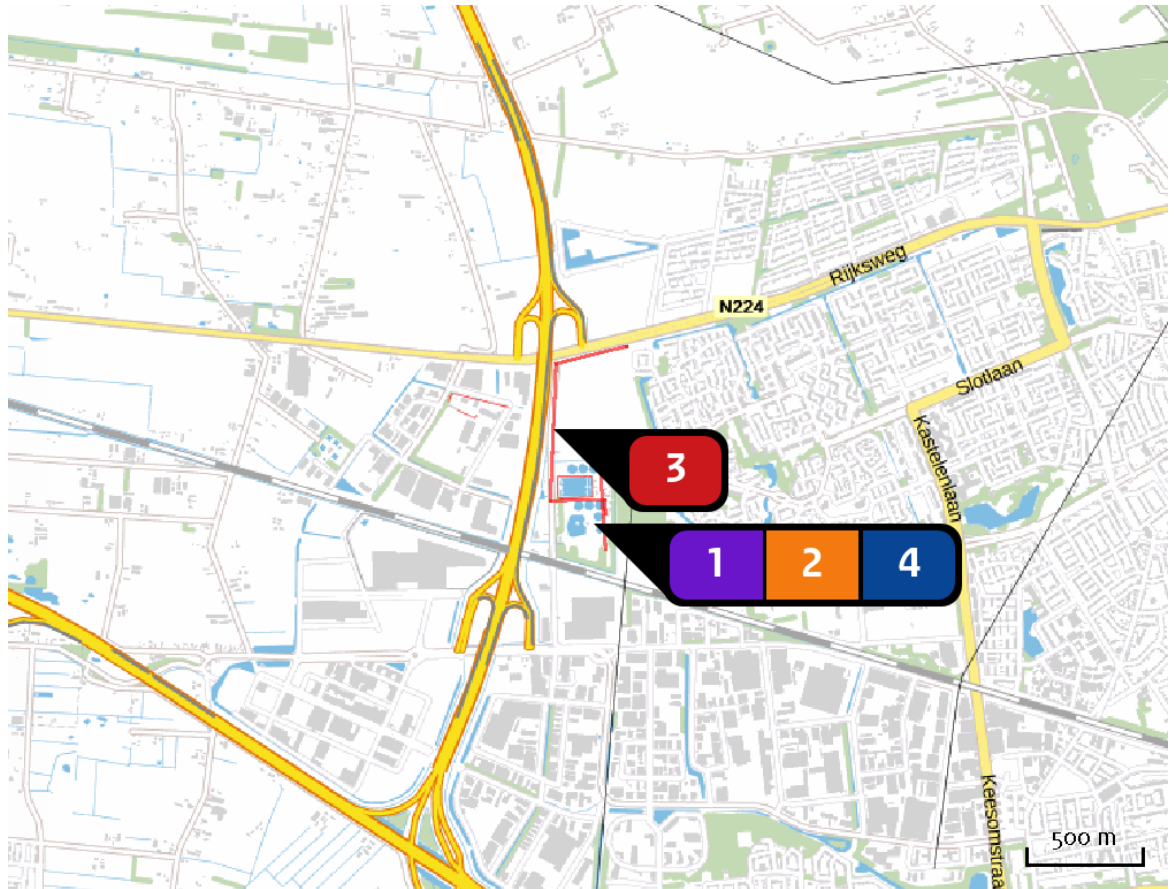
Name **transport**
 Location (X,Y) **170949, 450513**
 Height **2.5 m**
 Heat content **0.000 MW**
 NOx **3.07 kg/y**
 NH3 **< 1 kg/y**

Type	Vehicle	Number of vehicles (/day)	Substance	Emission
Standard	Light Traffic	14.0	NOx NH3	1.34 kg/y < 1 kg/y
Euro class.	Vrachtauto diesel > 20 ton GVW - Euro 6	7.0	NOx NH3	1.73 kg/y < 1 kg/y

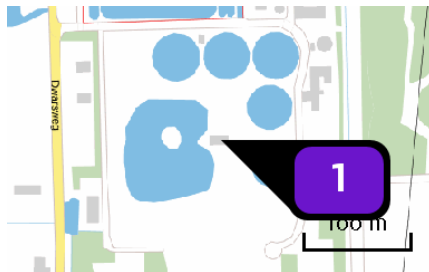


Name **traktor**
 Location (X,Y) **171164, 450154**
 Height **2.0 m**
 Heat content **0.000 MW**
 Diurnal variation **Transport**
 NOx **1.70 kg/y**

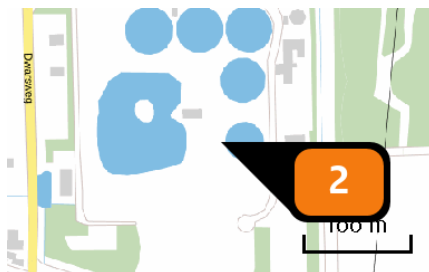
Location
Situation 2



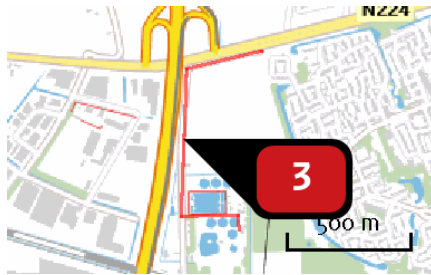
Emission
(by source)
Situation 2



Name	WKK
Location (X,Y)	171094, 450100
Height	7.0 m
Heat content	0.080 MW
Diurnal variation	Standard profile industry
NOx	6,186.00 kg/y

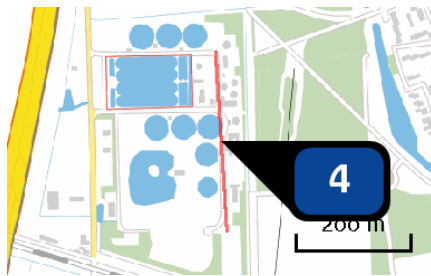


Name	CV-ketel
Location (X,Y)	171119, 450073
Height	4.0 m
Heat content	0.000 MW
Diurnal variation	Standard profile industry
NOx	63.00 kg/y



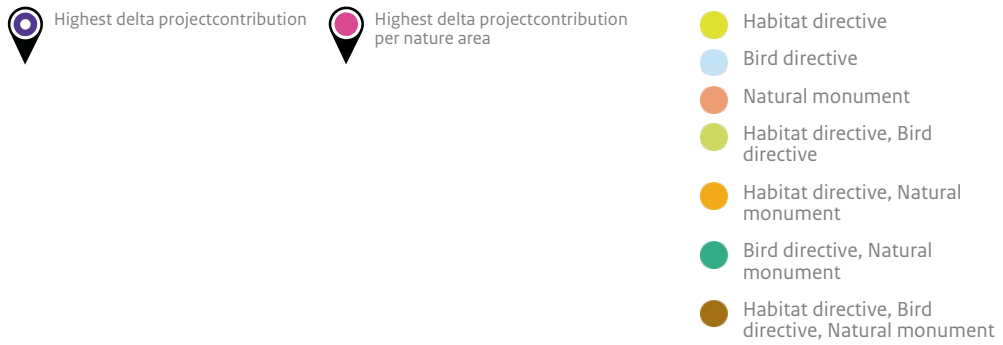
Name **transport**
 Location (X,Y) **170949, 450513**
 Height **2.5 m**
 Heat content **0.000 MW**
 NOx **3.07 kg/y**
 NH3 **< 1 kg/y**

Type	Vehicle	Number of vehicles (/day)	Substance	Emission
Standard	Light Traffic	14.0	NOx NH3	1.34 kg/y < 1 kg/y
Euro class.	Vrachtauto diesel > 20 ton GVW - Euro 6	7.0	NOx NH3	1.73 kg/y < 1 kg/y







Name **traktor**
 Location (X,Y) **171164, 450154**
 Height **2.0 m**
 Heat content **0.000 MW**
 Diurnal variation **Transport**
 NOx **1.70 kg/y**


Deposition



Deposition
PAS areas


Area	Hectare with highest difference (mol/ha/y)			Situation 2 Highest deposition (mol/ha/y)	Exceedance critical load	Development space	
	Situation 1	Situation 2	Difference			Highest necessary (mol/ha/y)	available?
Veluwe	>0.05	0.05	- 0.00	0.19		<=0.05	
Binnenveld	>0.05	0.05	- 0.00	0.06		<=0.05	

 No exceedance*

 Exceedance

 Development space available**

 No development space available

 For the area in question will find no relevant deposition place on OR-relevant hexagons. The concept does (green checkmark or red cross) available or not development space is not applicable







* This result is not taken into account when assessing under the Nature Conservation Act. When assessing under the Nature Conservation Act the relevant hexagons for which development space is reserved will be looked at.






** When assessing a permit application under the Nature Conservation Act it will be determined whether there is sufficient development space available and that significant deterioration can be excluded.

Deposition per habitat **Veluwe**

Habitattype	Hectare with highest difference (mol/ha/y)			Exceedance critical load	Development space	
	Situation 1	Situation 2	Difference		Highest necessary (mol/ha/y)	available?
H4030 Droge heiden	>0.05	0.05	- 0.00	●	<=0.05	✓
H9190 Oude eikenbossen	0.06	0.06	- 0.00	●	<=0.05	✓
H2310 Stuifzandheiden met struikhei	>0.05	>0.05	- 0.00	●	<=0.05	✓
H2330 Zandverstuivingen	0.06	0.06	- 0.00	●	<=0.05	✓
H6230vka Heischrale graslanden, vochtig kalkarm	>0.05	0.05	- 0.00	●	<=0.05	✓
H9120 Beuken-eikenbossen met hulst	>0.05	0.05	- 0.00	●	<=0.05	✓
H91EoC Vochtige alluviale bossen (beekbegeleidende bossen)	>0.05	0.05	- 0.00	●	<=0.05	✓
H3130 Zwakgebufferde vennen	>0.05	0.05	- 0.00	●	<=0.05	✓
H7150 Pioniervegetaties met snavelbiezen	>0.05	0.05	- 0.00	●	<=0.05	✓
H3160 Zure vennen	0.06	0.06	- 0.00	●	<=0.05	✓
H5130 Jeneverbesstruwelen	>0.05	0.05	- 0.00	●	<=0.05	✓
ZGH9190 Oude eikenbossen	>0.05	0.05	- 0.00	●	<=0.05	✓
ZGH2310 Stuifzandheiden met struikhei	0.06	>0.05	- 0.00	●	<=0.05	✓

Binnenveld

Habitattype	Hectare with highest difference (mol/ha/y)			Exceedance critical load	Development space	
	Situation 1	Situation 2	Difference		Highest necessary (mol/ha/y)	available?
H7140A Overgangs- en trilvenen (trilvenen)	>0.05	0.05	- 0.00		<=0.05	
H6410 Blauwgraslanden	>0.05	0.05	- 0.00		<=0.05	
H7140B Overgangs- en trilvenen (veenmosrietlanden)	>0.05	0.05	- 0.00		<=0.05	

-  No exceedance*
-  Exceedance
-  Development space available**
-  No development space available
-  For the area in question will find no relevant deposition place on OR-relevant hexagons. The concept does (green checkmark or red cross) available or not development space is not applicable

* This result is not taken into account when assessing under the Nature Conservation Act. When assessing under the Nature Conservation Act the relevant hexagons for which development space is reserved will be looked at.

** When assessing a permit application under the Nature Conservation Act it will be determined whether there is sufficient development space available and that significant deterioration can be excluded.

Disclaimer

Although the calculation is made with the utmost care, no responsibility will be taken with respect to the decisions taken based on the results of the calculation. The information provided can be used to substantiate a permit request. AERIUS accepts no responsibility for the content of information provided by third parties. The above data and corresponding results are valid till a new version of AERIUS is available. AERIUS is a registered trademark in Europe. All rights not expressly granted herein are reserved.

References for calculations

This calculation is based on:

AERIUS [version 2015.1_20161230_e66ee8c868](#)

Database [version 2015.1_20160514_90ad58c36e](#)

For more information about the methodology and data see:

<https://www.aerius.nl/nl/factsheets/release/aerius-calculator-2015-handboek-o>