

# The Stockholm Case Study:

## Stockholm Application Database

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# Legal framework for the municipality of Stockholm



## National Law:

- Driller submits information required by law SFS 1985:245 (Drilling protocol) to the geological survey
- Notification to the municipal board is required when installing a GSHP
  - But, the municipality may issue regulations which prescribe that also authorization is required within the municipality or certain parts of it, if necessary to protect human health and the environment.
- Your neighbours have the right to manifest their view if you drill close to their property, since this can affect their possibilities to make an installation.

## Who can apply?

The applicant has to fulfil the following criteria for their installation:

- Closed loop vertical borehole
- Single borehole
- No existing borehole on the property
- All of the borehole (incl. deviated boreholes) must be inside the property limits
- The installation is for one single building
- The heat pump installation is less than 20 kW

If one doesn't fulfil all of these requirement the application has to be done by using paper form.

## Before your application

- In order to get authorization to drill the City of Stockholm requires that:
  - The driller has to be a certified driller by SITAC
  - Drilling and installation has to comply with the guide “Normbrunn-07”, a guide on how to perform the drilling correctly.
  - You have made an inquiry at [www.ledningskollen.se](http://www.ledningskollen.se) for electric, telecom and communication cables. First check only.
  
- The City of Stockholm will then send out inquiries to:
  - Neighbours that may be affected and have the right to express their opinion.
  - Water company, the gas company, district heating company and the telecom company.

## Step 1 – Placement of borehole

- When entering a valid property ID which do not already have a borehole you will be sent to an interactive map of your neighbourhood.

Startsida
Kan jag ansöka via webben?
Inför ansökan
Ansökan
Vad händer sen?
Frågor & svar
Kontakt


LADAN

Skriv ut
Mät sträcka

Press the button "Place my borehole" to mark the place where you want to apply for a permit.

**Mitt borrhål**

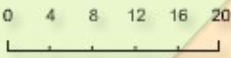
Här kan du se vilka borrhållstillstånd som finns i närheten av din fastighet. Klicka på knappen "Placera mitt borrhål" för att markera den plats du vill söka tillstånd för.











Placera mitt borrhål

Neighbouring boreholes

This line shows the limits of your property.



**Teckenförklaring**

-  Bore hole entry
-  Centre point of angled borehole
-  Bottom of angled borehole
-  Buffer zone for your borehole
-  Buffer zone neighbouring borehole
-  Unknown borehole placement
-  Property limit
-  Building/planning permission on property

Avbryt

Ansök om tillstånd för denna placering


Startsida
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LADAN 1

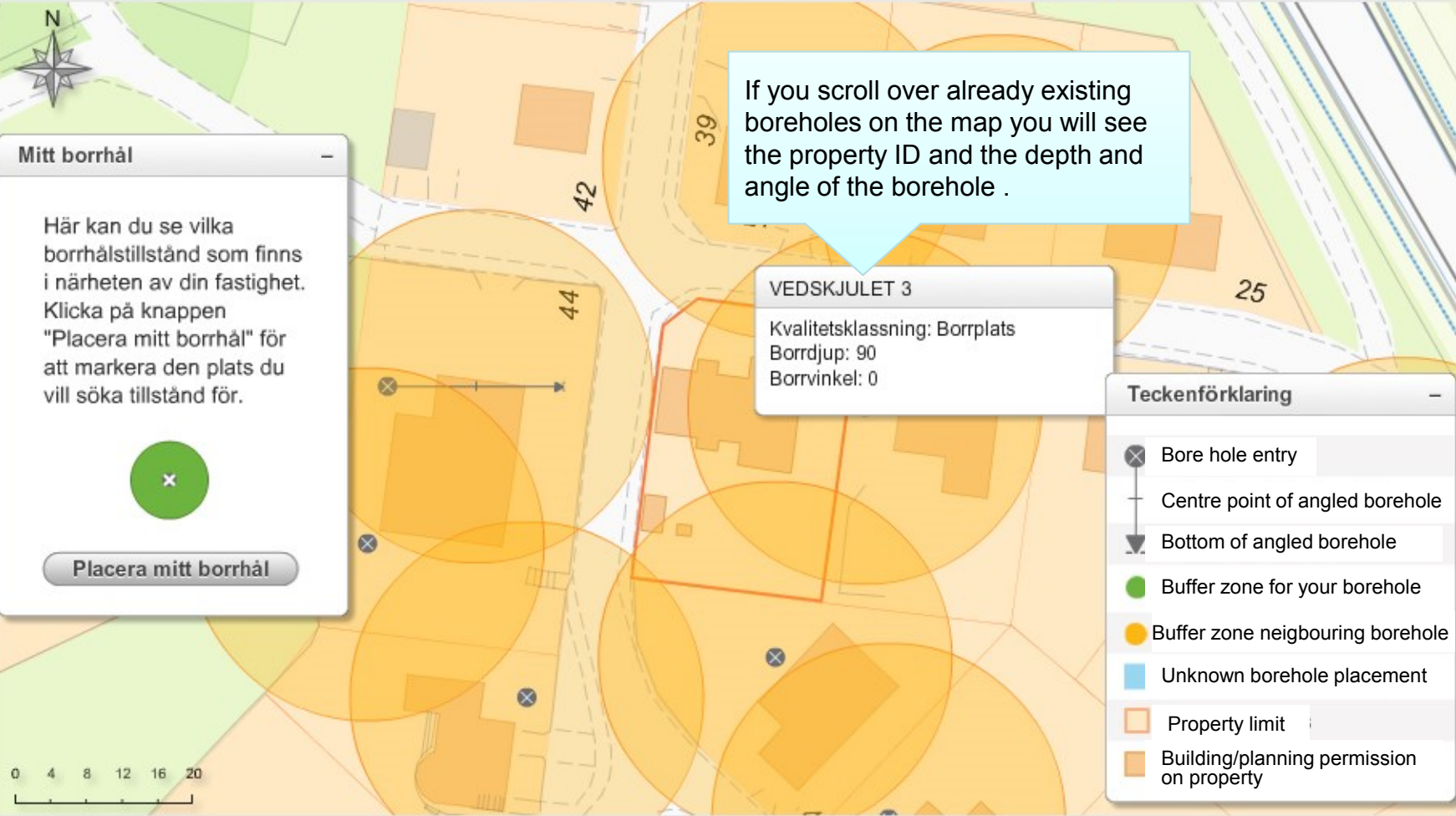
Skriv ut
Mät sträcka

**Mitt borrhål**

Här kan du se vilka borrhållstillstånd som finns i närheten av din fastighet. Klicka på knappen "Placera mitt borrhål" för att markera den plats du vill söka tillstånd för.



Placera mitt borrhål



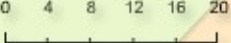
If you scroll over already existing boreholes on the map you will see the property ID and the depth and angle of the borehole .

**VEDSKJULET 3**

Kvalitetsklassning: Borrplats  
 Borrdjup: 90  
 Borrinkel: 0

**Teckenförklaring**

- Bore hole entry
- Centre point of angled borehole
- Bottom of angled borehole
- Buffer zone for your borehole
- Buffer zone neighbouring borehole
- Unknown borehole placement
- Property limit
- Building/planning permission on property



Startsida

Kan jag ansöka via webben?

Inför ansökan

Ansökan

Vad händer sen?

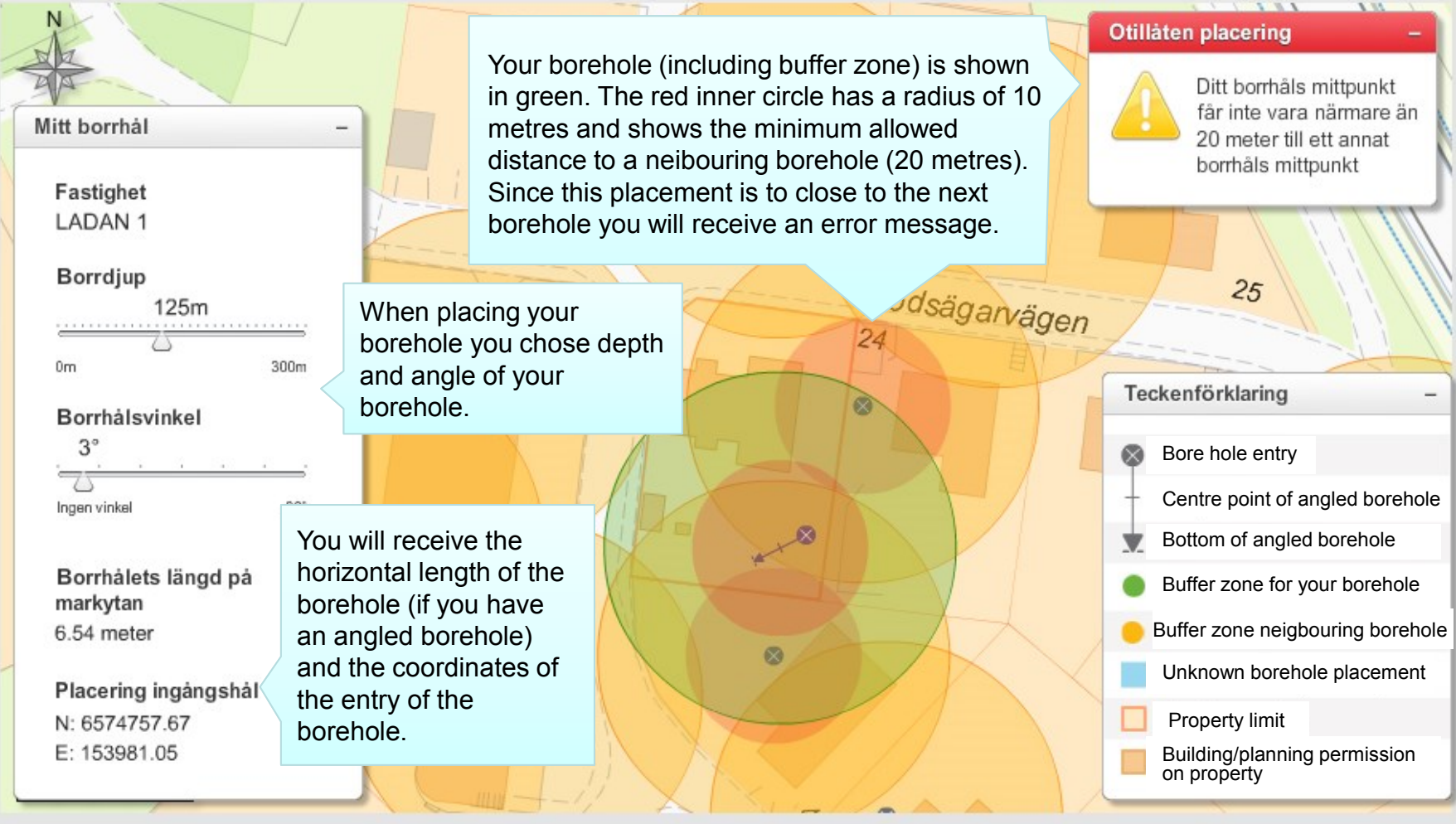
Frågor & svar

Kontakt

LADAN 1

Skriv ut

Mät sträcka

**Mitt borrhål**

Fastighet  
LADAN 1

Borrdjup  
125m

Borrhålsvinkel  
3°

Borrhålens längd på markytan  
6.54 meter

Placering ingångshål  
N: 6574757.67  
E: 153981.05

**Otillåten placering**

Ditt borrhåls mittpunkt får inte vara närmare än 20 meter till ett annat borrhåls mittpunkt

**Teckenförklaring**

- Bore hole entry
- Centre point of angled borehole
- Bottom of angled borehole
- Buffer zone for your borehole
- Buffer zone neighbouring borehole
- Unknown borehole placement
- Property limit
- Building/planning permission on property

Your borehole (including buffer zone) is shown in green. The red inner circle has a radius of 10 metres and shows the minimum allowed distance to a neighbouring borehole (20 metres). Since this placement is too close to the next borehole you will receive an error message.

When placing your borehole you chose depth and angle of your borehole.

You will receive the horizontal length of the borehole (if you have an angled borehole) and the coordinates of the entry of the borehole.

Avbryt

Ansök om tillstånd för denna placering



Startsida

Kan jag ansöka via webben?

Inför ansökan

Ansökan

Vad händer sen?

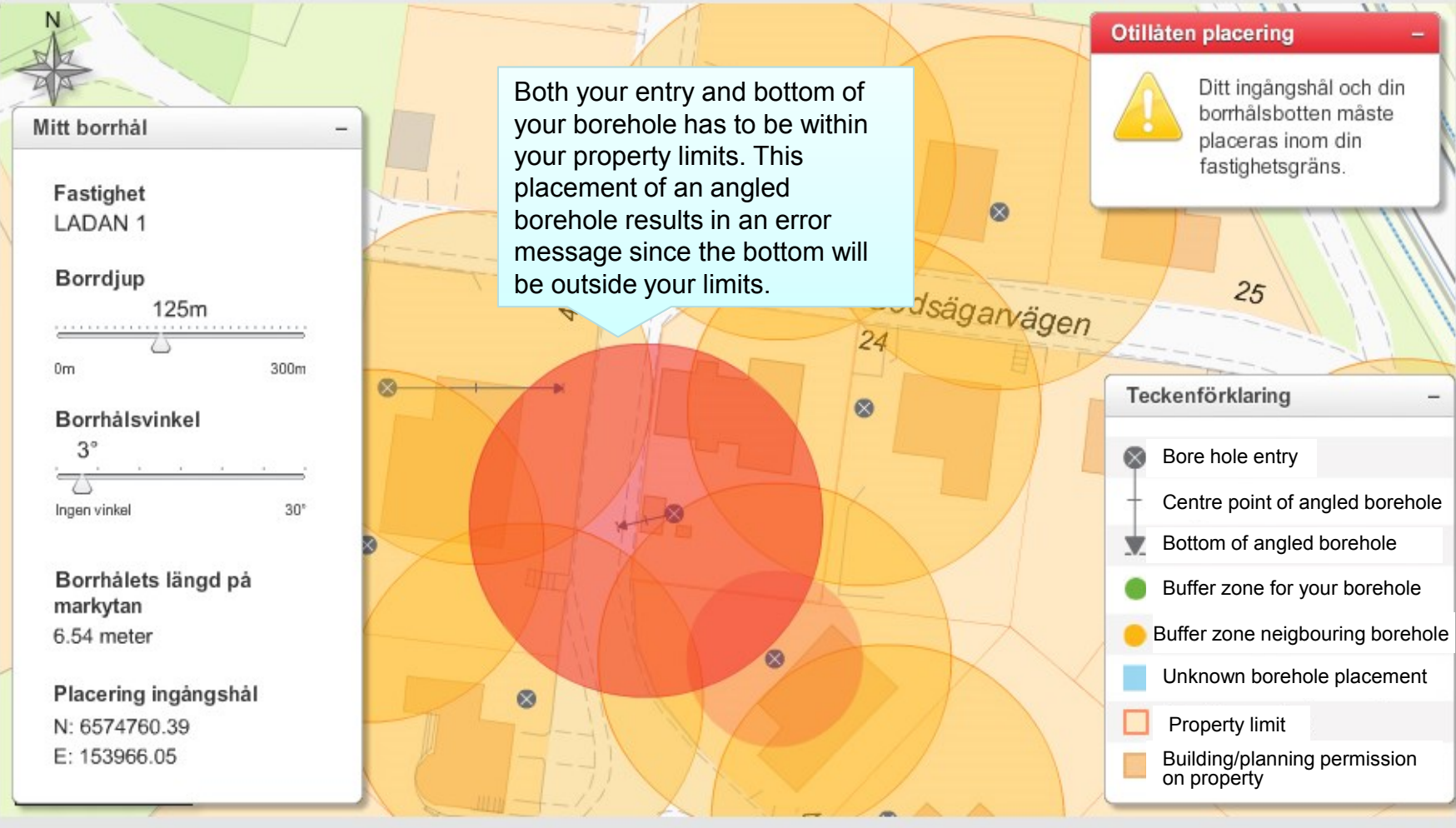
Frågor & svar

Kontakt

LADAN 1

Skriv ut

Mät sträcka



Both your entry and bottom of your borehole has to be within your property limits. This placement of an angled borehole results in an error message since the bottom will be outside your limits.

**Otillåten placering**

 Ditt ingångshål och din borrhålsbotten måste placeras inom din fastighetsgräns.

**Mitt borrhål**

Fastighet  
LADAN 1









Borrdjup  
125m

Borrhålsvinkel  
3°

Borrhålets längd på markytan  
6.54 meter

Placering ingångshål  
N: 6574760.39  
E: 153966.05

**Teckenförklaring**

-  Bore hole entry
-  Centre point of angled borehole
-  Bottom of angled borehole
-  Buffer zone for your borehole
-  Buffer zone neighbouring borehole
-  Unknown borehole placement
-  Property limit
-  Building/planning permission on property

Avbryt

Ansök om tillstånd för denna placering

Startsida

Kan jag ansöka via webben?

Inför ansökan

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LADAN 1

Skriv ut

Mät sträcka



When placing the borehole correctly, you will get a message saying that this is a possible location for your borehole.

### Möjlig placering



Observera att borrhålet ska placeras minst fyra meter från grannens byggnad. Kom ihåg att du ska informera grannar som har sin fastighet inom 20 meter från ditt borrhål.

### Mitt borrhål

Fastighet  
LADAN 1

Borrdjup

125m



Borrhålsvinkel

3°



Borrhålets längd på markytan

6.54 meter

Placering ingångshål

N: 6574763.83

E: 153970.39

### Teckenförklaring

-  Bore hole entry
-  Centre point of angled borehole
-  Bottom of angled borehole
-  Buffer zone for your borehole
-  Buffer zone neighbouring borehole
-  Unknown borehole placement
-  Property limit
-  Building/planning permission on property

You can continue your application by clicking the button on the bottom. Note that this is only possible placement with regards to neighboring boreholes. Underground infrastructure will be checked when the application has been sent.

Avbryt

Ansök om tillstånd för denna placering

## Next steps

### 2. Heat Pump

- a) Size
- b) Refrigerant
- c) Collector tubing
- d) Cold heat transfer media
- e) Energy coverage

### 3. Driller and installer

- a) Certification number and contact info to driller
- b) Contact info to installer is voluntary, but may ease the application process

### 4. Applicant's contact info

# Application Process and Timing

- Online permitting process for systems <10kW (few weeks)
- Municipality authorisation for systems >10kW (longer process)
- Commercial systems including ATES – BTES systems are subject to much stricter regulations:
  - Specific municipal application
  - Requirement for and EIA/EIS
  - Temperature and Flow rate determined by the municipality