

PROJEKTNR. 14192

Portrycksutveckling vid schakt och pålning i lös lera

Fältmätning

Viktor Lundqvist, David Nguyen Skanska Sverige AB

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Förord

Rapporten behandlar portycksutvecklingen vid pålning och schaktning genom fältundersökningar. Installation av portrycksspetsar har utförts inom projektet Brf Sydney i Göteborg. Projektet har utförts under perioden mars 2023 till augusti 2024.

En referensgrupp bestående av följande personer har varit kopplad till projektet:

- Jonatan Isaksson, Chalmers/NCC Teknik
- Johannes Pettersson, Peab Anläggning
- Johannes Tornborg, Chalmers/Skanska Teknik

Projektet har finansierats av SBUF och Skanska Sverige AB.

Ett stort tack till kollegorna på Skanska Hus Göteborg på Brf Sydney för hjälp med maskiner, underlag, lokaler men främst tålamod med portrycksstationen mitt i schaktgropen. Tack till referensgruppen för värdefulla kommentarer och diskussioner. Undertecknade vill även rikta ett stort tack till finansiärer samt ett antal kollegor på Skanska Teknik, framförallt Anders Kullingsjö och Matilda Harlén, som på olika sätt bidragit till genomförande och slutförandet av detta projekt.

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Viktor Lundqvist, David Nguyen



Sammanfattning

Denna rapport syftar på att genom fältmätningar vid Brf Sydney i Göteborg studera hur portrycksutvecklingen utbildas och förändras inom pålningsområdet i samband med pålning och schakt. I anknytning till detta utfördes ett examensarbete av Viktor Lundqvist och Annie Sylvén Stålhandske som syftar på att studera den kombinerade påverkan som pålning och schaktning har på utvecklingen av portryck, hävning och hävningstryck. Examensarbetet tog del av fältmätningarna från Brf Sydney kopplat till detta SBUF-projekt, där mätdata sammanställdes och synkroniserades med produktionstiderna för schaktning och pålning vid Brf Sydney, för att studera portrycksförändringarna i samband med dessa aktiviteter. I examensarbetet utfördes även en numerisk analys med syfte att simulera portrycksutveckling under pålningoch schaktningsprocesser, för att studera den kombinerade effekt som pålning och schaktning har på portryck, hävning och hävningstryck.

I rapporten presenteras uppmätta porövertryck under schaktning och pålning av Brf Sydney. Vidare redovisas fullständiga mätdata från fältmätningar under perioden 2023-02-24 till 2024-03-10 i Bilaga 2. Resultaten från den numeriska analysen indikerar att pålning minskar hävningstrycket med en faktor 0,8. Vidare visar resultaten från analysen på en större vertikalförskjutning i schaktbotten när schakt utförs före pålning, jämfört med omvänd arbetsordning.



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- Bilaga 2: Portrycksdata från fältmätning



1 Inledning

Skanska Teknik har under tidsperioden februari 2023 - mars 2024 mätt portrycket för en portrycksstation med fem portrycksgivare på 5, 10, 15, 20 och 40 m djup under markytan. Tillsammans med Viktor Lundqvist och Annie Sylvén Stålhandske utfördes ett examensarbete med avstamp från dessa mätningar. Föreliggande rapport innefattar en sammanfattning av examensarbetet.

Portrycksstationen har installerats inom projektet Brf Sydney. Översiktsbilden i Figur 1-1 representerar den nya växande stadsdelen "Masthuggskajen" i Göteborg som Brf Sydney är en del av (nummer 18). Installerat läge på portrycksstationen redovisas i Figur 1-2.

Pålning utförs normalt från ursprunglig markyta och förväntas generera ett porövertryck. Efterföljande schakt förväntas ge upphov till ett minskat portryck. På grund av ett fördröjt hävningsförlopp pga schakten kan ett hävningstryck mot bottenplattan behöva beaktas i designen av bottenplattan. Dessa processer motverkar delvis varandra och insamlade data ger indikationer på hur portrycken utvecklas. På grund av produktionstekniska skäl kastades arbetsordningen om, vilket innebar att schakten utfördes före pålningen.

En mer utförlig litteraturstudie med avseende på portrycksförändring i lågpermeabla jordar, hävningstryck i lös lera, porövertryck vid pålning och minskat porövertryck över tid presenteras i Lundqvist och Sylvén Stålhandskes examensarbete, se Bilaga 1.



Figur 1-1 Översiktsbild av Masthuggskajen med Brf Sydney (nummer 18) inringat i rött (Masthuggskajen, 2024).



Figur 1-2 Läge installerad portrycksstation inom schaktgropen i Brf Sydney.

2 Fältmätning

Marken under Brf Sydney består av ett lager av fyllning med en tjocklek som varierar mellan 2–4 m, och som utgörs av en blandning av sand, silt, grus, lera samt lämningar av byggnadsmaterial. Under fyllningen ligger ett 100–110 m mäktigt lerlager följt av ett lager friktionsjord på berg. Markytan ligger på ca nivå +2, och grundvattenytan ligger på ca nivå +0,5, med antaget hydrostatiskt vattentryck. Nivåer, tungheter och hållfasthetsparametrar för fyllnaden och leran redovisas i Tabell 2-1.

Jordlager	Nivå [m]	Tunghet [kN/m³]	c _u [kPa]
Fyllning	+2 till -2	$\gamma = 18$, $\gamma_s = 20$	
Lera 1	-2 till -3	$\gamma = \gamma_s = 15.5$	17.5
Lera 2	-3 till -8	$\gamma = 16.5$	17.5
Lera 3	-8 till -20	$\gamma = 16.5$	24 + 0.4z
Lera 4	-20 till -40	$\gamma = 16.5$	28.8 + 1.6z
Lera 5	-40 till -100	$\gamma = 16.5$	60.8 + 1.6z

Tabell 2-1 Nivå, tunghet och hållfasthetsparametrar för respektive jordlager.

Portrycksmätare installerades innan byggnation/produktion på 5, 10, 15, 20 och 40 m djup under markytan. Marken förborrades ner till 20 cm ovan mätarnas slutgiltiga placering för respektive mätare, för att sedan tryckas ner till rätt djup så att spetsen hamnar i ostört material. Mätarna loggar data två gånger per dygn. Portrycksmätarnas position i förhållande till schaktgropen i Brf. Sydney presenteras i Figur 1-2.

Grundläggningen av Brf Sydney inleddes med att hela området schaktades från ca nivå +2 till +0,6 mellan datumen 2023-03-03 och 2023-03-31, följt av installation av sponter och stämp. Därefter schaktades området en andra gång från nivå +0,6 ner till - 1,8. Denna fas utfördes under en längre tid, uppdelad i olika delområden som schaktades mellan olika datum. Delområden och respektive datum för schaktning redovisas i Figur 2-1.



Figur 2-1 Schaktade delområden med start- och slutdatum för respektive delområde.

När området hade schaktats klart påbörjades pålningen. 246 massundanträngande pålar, ca 57 m långa, installerades mellan 2023-12-14 och 2024-3-1. Marken vid pålarnas placering var förborrad ner till 15 m under schaktbotten. Figur 2-2 visar vilka pålar som slogs respektive vecka samt pålfrontens huvudriktning under pålningsarbetet.



Figur 2-2 Pålplan med veckovis slagning av respektive påle samt pålfrontens huvudriktning.

3 Numerisk analys

Inom examensarbetet utfördes en numerisk analys med syfte att simulera portrycksutveckling under pålning- och schaktningsprocesser, för att studera den kombinerade effekt som pålning och schaktning har på portryck, hävning och hävningstryck. Den numeriska analysen utfördes med hjälp av beräkningsprogrammet PLAXIS 2D, där en tvådimensionell FE-modell som simulerar schaktning och pålinstallation skapades. Modellen utgick ifrån en axisymmetrisk "unit-cell", som simulerar schaktning och installation av en påle. En detaljerad beskrivning av den numeriska analysen ges i Bilaga 1.

4 Resultat från fältmätning

Portrycksutvecklingen under schaktningen av Brf Sydney presenteras i Figur 4-1. Start- och slutdatum för schakt av respektive delområde i Figur 2-1 är markerat i grafen. Portrycksutvecklingen efter schaktning och under pålning presenteras i Figur 4-2. Fullständiga mätdata inklusive portryck, okorrigerat portryck, datum och klockslag för mätning, redovisas i Bilaga 2. Mätningarna visar på en tydlig portrycksökning när pålning utförs i närhet till portrycksmätare. Denna tendens går att se från mätningarna vid Nils Ericsson terminalen (se SBUF Rapport 13416). Vid schakt kan en minskande trend ses vid vissa djup, vilket även ses vid Nils Ericsson terminalen.



Figur 4-1 Fältmätningar av portrycksutvecklingen under schaktning med tidsförlopp för schaktning av delområden i Figur 2-1.



Figur 4-2 Fältmätningar av portrycksutvecklingen under pålning.

Beaktansvärt är att schaktarbeten påbörjades tätt efter installation av portrycksstationen. Detta medför att porövertryck som har genererats vid installation av mätare ej har tillåtits att klinga av till stationärt portryck, vilket har en påverkan på resultaten under tidiga schaktarbeten.

5 Slutsatser

Inom examensarbetet utfördes en analytisk och numerisk analys av portrycksutveckling både för schaktning och pålning separat men även kombinerat för de båda delarna. I deras fall visar den numeriska analysen att pålningen minskar hävningstrycket med en faktor 0,8 vilket dock inte kan sägas vara en generell slutsats. För jämförelse bedöms hävningstrycket i lös lera vid endast schaktning kunna antas som $0,5\sigma'_{vo}$, baserat på analyser av mätdata samt numeriska analyser (se SBUF-Rapport 13303). Vidare indikerar även den numeriska analysen att vertikalförskjutning i schaktbotten blir större om schakt utförs före pålning, jämfört med omvänd ordning. Simuleringar med Brf. Sydneys arbetsordning samt byggtider, resulterar i en ca. 25 % större vertikalförskjutning i schaktbotten, jämfört med motsvarande byggtider men omvänd ordning.

Utförlig analys, diskussion och slutsatser presenteras i Bilaga 1.

6 Rekommendationer

Då portrycksstationen under Brf Sydney fortfarande fungerar och arbetsledningen möjliggjort att mätningar av portrycket kan utföras från marknivå, rekommenderas det en fortsättning på detta projekt. Detta genom fortsatta mätningar av portrycket. En långtidsmätning av portrycket skulle ge en bättre bild av hur porövertryckets variation över tid samt vara ett stöd vid ev. skadeutredningar på Brf Sydney.

Referenser

Masthuggskajen. (den 10 Juli 2024). Hämtat från Masthuggskajen: https://masthuggskajen.se/projektet/



CHALMERS UNIVERSITY OF TECHNOLOGY



Analysis of excess pore pressure evolution during and following excavation and piling in soft clay

Master's thesis in Master Program Infrastructure and Environmental Engineering

Viktor Lundqvist Annie Sylvén Stålhandske

Department of Architecture and Civil Engineering CHALMERS UNIVERSITY OF TECHNOLOGY Master's thesis ACEX30 Gothenburg, Sweden 2024

Bilaga 1 Sida 2 av 95 MASTER'S THESIS ACEX30

Analysis of excess pore pressure evolution during and following excavation and piling in soft clay

Viktor Lundqvist Annie Sylvén Stålhandske



Department of Architecture and Civil Engineering Division of Geology and Geotechnics CHALMERS UNIVERSITY OF TECHNOLOGY Gothenburg, Sweden 20124 Analysis of excess pore pressure evolution during and following excavation and piling in soft clay

Viktor Lundqvist Annie Sylvén Stålhandske

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Supervisor: Johannes Tornborg, Department of Architecture and Civil Engineering,
Division of Geology and Geotechnics, Chalmers and Skanska.
Supervisor: David Nguyen, Skanska.
Supervisor: Anders Kullingsjö, Skanska.
Examiner: Mats Karlsson, Department of Architecture and Civil Engineering, Division of Geology and Geotechnics, Chalmers.

Department of Architecture and Civil Engineering Division Geology and Geotechnics Chalmers University of Technology SE-412 96 Gothenburg Telephone +46 31 772 1000

Cover: Conceptual image illustrating the hypotheses of this study, the evolution of excess pore pressure generated during pile installation, and excavation processes, separately and combined.

Department of Architecture and Civil Engineering Gothenburg, Sweden 2024 Analysis of excess pore pressure evolution during and following excavation and piling in soft clay Viktor Lundqvist Annie Sylvén Stålhandske Department of Architecture and Civil Engineering Division of Geology and Geotechnics Chalmers University of Technology

Abstract

This thesis aims to study the combined impact of pile driving and excavation have on the development and evolution of excess pore pressure, heave, and heave pressure. To fulfill this aim, numerical analyses were conducted to simulate the pore pressure evolution and heave during pile driving and excavation processes. Two constitutive models were used, a Mohr-Coulomb model and the Modified Cam Clay model. Two numerical models were first constructed simulating excavating and piling respectively, where a cavity expansion was used to simulate the pile installation. The results from these models were validated against analytical solutions found in the literature to verify that the pile driving and unloading, yielded results that were consistent with theory. After these models had been validated, a new model simulating both excavating and piling was constructed. The computed results from this model were compared to monitored pore pressure data from an existing construction site, located in Gothenburg, Sweden. Thereafter, a parametric study was conducted to generalise the result by varying the permeability and stiffness. The results indicate that piling before excavating reduces the heave pressure, compared to only excavating. Furthermore, results also indicate that piling before excavating, generates less vertical displacements at the excavation bottom, compared to to the reverse construction sequence (i.e piling after excavating). As the piling model in this thesis only simulated the cavity expansion and not the pile material, the reinforcing effect piles have on heave would be of interest to study in future research. Further research could also analyse the effect of a group of piles, with regard to pore pressure, heave and heave pressure.

Keywords: Heave pressure, Unloading, Excavation, Piling, Pore pressure, Cavity expansion, Numerical modeling, Mohr-Coulomb, Modified Cam Clay

Bilaga 1 Sida 6 av 95 Analys av portrycksutveckling till följd av pålning och schaktning i lös lera. Viktor Lundqvist Annie Sylvén Stålhandske Institutionen för Arkitektur och Samhällsbyggnadsteknik Avdelningen för Geologi och Geoteknik Chalmers University of Technology

Sammanfattning

Detta examensarbete syftar till att studera den kombinerade påverkan som pålning och schaktning har på utvecklingen av portryck, hävning och hävningstryck. För att uppfylla detta syfte utfördes numeriska analyser för att simulera portrycksutveckling och hävning under pålnings- och schaktningsprocesser. Två materialmodeller användes, Modified Cam Clay och Mohr-Coulomb. Två separata numeriska modeller skapades först för att simulera respektive schaktning och pålning, där en "Cavity Expansion" användes för att simulera pålningen. Resultaten från dessa modeller validerades mot analytiska metoder från literatur studien, för att verifiera att pålnings- och schaktningssmodellen ger resultat som överensstämmer med teorin. Efter att dessa modeller hade validerats, skapades en ny modell som simulerade både schaktning och pålning. Beräkningsresultaten från denna modell jämfördes med fältmätningar av portryck från en byggarbetsplats, belägen i Göteborg. Därefter genomfördes en parametrisk studie för att generalisera resultatet genom att variera permeabiliteten och styvheten. Resultaten indikerar att pålning före schaktning minskar portrycket jämfört med enbart schaktning. Dessutom visar resultaten att pålning före schaktning genererar mindre vertikala deformationer i schaktbotten jämfört med den omvända byggordningen (dvs. pålning efter schaktning). Eftersom pålningsmodellen i denna avhandling endast simulerade en cavity expansion, och därmed inget pålelement, skulle det i framtida studier på detta område vara av intresse att simulera ett pålelement. Detta skulle kunna simulera den armerade effekt som kan observeras efter pålinstallation, med avseende på hävning och hävningstryck. Ytterligare studier kan även undersöka pålgruppers effekt på porövertryck, hävning och hävningstryck.

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Nomenclature

Abbreviations

- AMSL Above Mean Sea Level
- CSL Critical State Line
- EHP Effective Heave Pressure
- M-C Mohr Coulomb
- MCC Modified Cam Clay
- OCR Over Consolidation Ratio

Greek letters

- γ unit weight
- κ swelling index
- λ compression index
- ν Poisson's ratio
- ψ dilatancy angle
- σ total stress
- σ' effective stress
- σ'_h effective horizontal stress

 $\sigma_{n.center}^{\prime}$ effective vertical stress at center of slab

- σ'_v effective vertical stress
- σ_c pre-consolidation stress
- σ_f normal stress on the failure plane
- σ_1 major principal stress
- σ_3 minor principal stress
- σ_h horizontal stress
- σ_v vertical stress
- τ_f shear strength
- φ internal friction angle

Roman letters

 a_s swelling index

c'	effective cohesion
c_u	undrained shear strength
E	Young's modulus
G	shear modulus
Η	excavation depth
k	hydraulic conductivity (but in this report referred to as permeability)
K_0	earth pressure coefficient at rest
M	oedometer modulus
M_0	compression modulus if $\sigma'_c > (\Delta \sigma + \sigma'_0)$
M_L	compression modulus if $\sigma_c' < (\Delta \sigma + \sigma_0')$
M_{ul}	unloading Modulus
p'	mean effective stress
q	deviatoric stress
r	radius of the cavity
r_{pl}	radial distance of the plastic zone from the centre of the cavity
$t_{exc.tosl}$	a_{ab} time between finalised excavation and casting the slab
u	pore water pressure
u_e	excess pore water pressure
u_s	steady state, static pore water pressure

 y_{min} depth to bottom of soil layer

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] Introduction

This chapter presents a brief background to the study of this thesis. The aim, objectives, and limitations of the study will be presented.

1.1 Background

With urbanisation bringing a predicted increase of population to cities, some challenges arise in how this influx of people should be accommodated. One way of meeting these challenges is through the densification of already exploited land in a city. The Swedish city of Gothenburg, partly employs this tactic of densification, as stated in the comprehensive plan developed by the municipality (Göteborgs Stad, 2022).

An area in Gothenburg known as Masthuggskajen is currently being redeveloped into a more densified area with several buildings having already been constructed (Göteborgs Stad, 2018). One building that is to be completed in the near future, as part of the redevelopment of Masthuggskajen is Brf. Sydney, which is a multistory apartment building with an underlying basement currently under construction by Skanska AB (Skanska, 2022a). The soil at Brf. Sydney consists mainly of soft clay to an approximate depth of 100 meter. Therefore, a deep foundation was needed to stabilise the ground of the upcoming building, consisting of cohesive piles, and a slab constructed on top. To be able to analyse the soil response during and following the construction of the foundation, five piezometers were installed at different depth to measure pore water pressure.

Excavating in soft clay with low permeability, as performed at Brf. Sydney, often results in heave which if restrained causes the bottom slab to experience pressure from below (Tornborg, 2017). This pressure needs to be accounted for when designing the slab, possibly resulting in extra reinforcement. This effect arises from the unloading process that results in negative excess pore pressure, which as they dissipate causes the soil to heave, comparable to how a compressed wet sponge expands when relieved of a surcharge load. Piling however, produces the opposite effect, generating positive excess pore pressure (e.g Isaksson, 2022). In short, excavation generates negative excess pore pressures, and piling generates positive excess pore pressures.

This report will compare the pore pressure evolution in soil, caused by different pro-

cedures of constructing the foundation of a building, with similar ground conditions to Brf. Sydney. In general, there are two procedures, either excavating before, or after the piles have been driven into the ground. If the increase in excess pore pressure when pilling, and the decrease of excess pore pressure when excavating, counteracts each other, the time-dependent heave effect on the slab could potentially decrease. This could ultimately lead to a more optimal design of the slab in terms of material use and its environmental impact.

1.2 Aim and Objectives

This thesis will study the combined impact pile driving and excavation processes have on the development and evolution of excess pore pressure, heave, and heave pressure.

The main objectives of the project which helps to address the aim, are described as follows:

- A literature study will be performed to support the interpretation and analysis of the data. Previous research on unloading and mass displacement in soft soil, coupled with pore pressure generation with regards to piling, will be used to design the methodology of the report.
- A collection of time-dependent pore pressure data from a site will be collected and aligned with the production time plan of the excavation and piling stages. This is done to observe how the pore pressure reacts to the different construction steps.
- Two numerical models will be created, one representing the pile installation and the other the excavation. These two models will be validated against existing literature to confirm that their behavior is in agreement with theory.
- Following the previous objective, a model will be constructed consisting of piling and excavation. The order of these processes will be switched to study the effects of piling before or after excavation, on heave of excavation bottom.
- A parametric study will be performed to generalise the result, with respect to varying permeability and soil stiffness.

1.3 Limitations

Limitations and external impacts of the project that will not be considered are described below:

- Only the pore pressure changes during excavation and piling will be analysed, not how it is affected by the load of the superstructure on the foundation.
- The influence of the previously constructed buildings in the area is not taken into account, nor are any future constructions.
- The numerical analyses are limited to a unit cell containing one pile
- The interface between the pile and soil will not be considered. Only the effects of the pile installation will be considered, since no pile element will be modeled.
- Any retaining structures part of the construction, such as sheet pile walls and struts, will not be considered.

1. Introduction

2

Theory

In this chapter, the theoretical behaviour of the excess pore pressure during unloading (excavation) and mass displacement from driven piles will be presented.

2.1 Pore pressure change in low permeable soils

The soil can be either a three-phase material or a two-phase material, depending on whether it's dry (air and grains), fully saturated (water and grains), or partly saturated (water, grains, air) (Sällfors, 2013). When applying a vertical load onto a aqueous two-phase material, the stresses are carried by both the soil skeleton and the water. According to Terzaghis principle, the total stress is described as the sum of the effective stress and the pore pressure, see Equation 2.1. However, as water does not shear, this only applies to normal stresses and not shear stresses (Verruijt, 2017). The effective shear stresses are therefore equal to the total shear stresses (Bentley, 2023a).

$$\sigma = \sigma' + u \tag{2.1}$$

When applying or removing a load the response of the soil depends mainly on its permeability and drainage ability. If the soil has a low permeability the grains are small and therefore also the voids in between the grains (Knappett and Craig, 2012). Therefore low permeable soil does not drain as quickly as high permeable soil. The response of a low permeable soil to an applied load will consequently have an initial undrained response.

As previously mentioned, the soil can be either a three-phase material or a two-phase material, where the stresses generated by an applied load are carried by both the soil skeleton and the water in the voids (Sällfors, 2013). The pore pressure consists of a static/ steady state pore water pressure, u_s and an excess pore water pressure, u_e see Equation 2.2 (Knappett and Craig, 2012). When a vertical stress is applied to soil of low permeability and the lateral strain is assumed to be zero, the grains in the soil try to change position, but if the soil is fully saturated and the water is incompressible, the pore water needs to dissipate for this to occur. In low permeable soil, it takes time for the pore water to dissipate through seepage, resulting in an undrained short term response and an equal increase in total and vertical stress. However, in reality the lateral strain would probably not be equal to zero, resulting in an increase of the effective stress as well.

$$u = u_s + u_e \tag{2.2}$$

The change in pore water pressure creates a gradient and the water will continue to dissipate until the soil is fully drained and $u = u_s$, the increase in total vertical stress will be carried by the soil skeleton (Knappett and Craig, 2012). The deformation that occurs when the water dissipates and the soil skeleton rearranges is occurs during a process reffered to as consolidation. Compared to loading the soil, unloading, reduces the total stress and the excess pore pressure will be negative.

2.2 Compressibility and consolidation

As previously stated, the dissipation of excess pore pressures and the associated deformation is referred to as consolidation. The degree of this behaviour is partly governed by the load history of the soil (Knappett and Craig, 2012). The apparent maximum vertical load a soil has endured can be characterised by the apparent pre-consolidation pressure σ'_c . This can vary significantly depending on location, since it is determined by the geological, and anthropogenic loading history of the soil. How the soil will deform when subjected to a "new" load, will be governed to a large extent by whether the effective vertical stress in the soil, exceeds the apparent pre-consolidation pressure. If the effective stress generated by a "new" load $(\Delta \sigma + \sigma'_0)$ is less than the pre-consolidation pressure, i.e. $\sigma'_c > (\Delta \sigma + \sigma'_0)$, the soil will deform primarily elastically. Contrarily, when the pressure exceeds the preconsolidation pressure $\sigma'_c < (\Delta \sigma + \sigma'_0)$, the soil will consolidate resulting in viscoplastic deformations over time.

The ratio between the pre-consolidation pressure and the in situ vertical stress σ'_0 is known as the overconsolidation ratio, or $OCR = \sigma'_c / \sigma'_0$.

2.2.1 Compressibility

An important stiffness parameter to consider is the compression modulus M of the soil, which describes the relationship between compression and effective vertical stress (Larsson, 2008). Determined by the size of the difference between the vertical effective stress ($\Delta \sigma + \sigma'_0$), and the pre-consolidation pressure σ'_c , the compression modulus of the soil will vary. For 1D-analysis, if $\sigma'_c > (\Delta \sigma + \sigma'_0)$, the oedometer stiffness can be described by M_0 , which then characterise the elastic stiffness of the soil. If $\sigma'_c < (\Delta \sigma + \sigma'_0)$, the oedometer stiffness can be described by M_L , which characterise the plastic stiffness of the soil. Both M_0 and M_L are simplified linear stress-strain approximations.

 M_0 and M_L is mainly assessed through CRS/ incremental loading oedometer tests where a soil sample is essentially subjected to increasing vertical stress, which causes it to compress and deform (Larsson, 1986). M_0 can be estimated through the empirical relationship $M_0 = 250c_{u,ref}$, where $c_{u,ref}$ is undrained shear strength. This originates from the fact that the initial modulus M_0 is typically too low compared to the actual in situ modulus of the soil due to sample disturbance. However, Larsson (1986) reports that $M_0 = 250c_{u,ref}$ is valid for soils with an OCR around 3. The empirical relationship for the compression modulus is actually dependent on both OCR, and c_u . For soils with an OCR in the interval 1 - 1.5, M_0 is in the range $400c_{u,ref} - 500c_{u,ref}$.

The compressibility of the soil can also be expressed in terms of swelling index κ and compression index λ (Muir Wood, 2004). These indices describe the relation between the change in void ratio and stress, where λ is the inclination of the virgin compression curve and κ is the inclination of the overconsolidated part of the curve, where Equation 2.3 can be used to calculate λ .

$$\lambda = \frac{1}{\ln(10)} \frac{\epsilon_2 - \epsilon_1}{\log(\sigma_2) - \log(\sigma_1)}$$
(2.3)

2.2.2 Time-dependent consolidation

The differential equation describing consolidation can be seen in Equation 2.4, and is described by Terzaghi (1943). Through the use of this equation the dissipation of excess pore pressures generated by a load, can be solved for at varying times. From this expression, it's evident that consolidation of excess pore pressures is governed by the permeability k, compression modulus M and the unit weight of water γ_w . These parameters are assumed to be constant in Terzaghis 1D consolidation theory, and can be grouped into the coefficient of consolidation c_v , as seen in Equation 2.5 (Knappett and Craig, 2012).

$$\frac{\partial u}{\partial t} = \frac{M}{\gamma_w} \frac{\partial}{\partial z} k \frac{\partial u}{\partial z}$$
(2.4)

$$c_v = \frac{kM}{\gamma_w} \tag{2.5}$$

2.3 Unloading and heave

The theory for swelling caused by unloading can be studied with the same theory as consolidation and loading (Persson, 2004). When soil is excavated, total stresses σ in the soil below the excavation are reduced (Kempfert and Gebreselassie, 2010). This happens because the soil has been relieved of weight previously posed by the layer above, which now has been excavated. The result of this is a reduction in pore water pressure u, rather than a corresponding change in effective stress σ' . This decrease in pressure generates a negative excess pore water pressure u_e , which in turn dissipates, i.e. $u_e \rightarrow 0$. When the negative excess pressure dissipates, the volume of the soil expands as water fills the pores. This results in heave of the soil under the excavation, akin to a "reverse consolidation" process. If a slab has been constructed on the excavation bottom, this heave can exert pressure on the slab
from below. According to Persson (2004) the differential equation for heave caused by unloading, without accounting for creep, is defined in Equation 2.6.

$$\frac{\partial u}{\partial t} = \frac{M_{ul}}{\gamma_w} \frac{\partial}{\partial z} k \frac{\partial u}{\partial z}$$
(2.6)

Equation 2.6 is nearly identical to those found in Terzaghi (1943), with the difference being that the compression modulus is replaced with the unloading modulus. The equation describes how the dissipation of excess pore pressure is governed by the permeability of the soil k and the unloading modulus, without considering creep.

In Skempton (1954) the excess pore pressure due to unloading is described using Skempton's pore pressure coefficients, see Equation 2.7.

$$u_e = B\Delta\sigma_3 + A(\Delta\sigma_1 - \Delta\sigma_3) \tag{2.7}$$

where B = Pore pressure coefficient A = Pore pressure coefficient $\Delta \sigma_3$ = Minor principal stress $\Delta \sigma_1$ = Major principal stress

The pore pressure coefficients can be determined from triaxial tests, where B relates to the minor principle stress as shown in Equation 2.8 (Skempton, 1954).

$$B = \frac{u_e}{\sigma_3} \tag{2.8}$$

When the soil is fully saturated, B equals 1, and for dry soil, B equals 0. The pore pressure coefficient A varies depending on the type of clay, as it relates to the change in deviatoric stress, $\Delta \sigma_1 - \Delta \sigma_3$ (Persson, 2004). According to Hansbo (1990), A tends to be within 0.5 - 1 for normally-consolidated clay, and within 0 - 0.5 for lightly over-consolidated clay. Hence, Persson (2004) writes that this implies that the change in porepressure can be equal to the change in vertical stress for one dimensional loading of an " *isotropic, linear elastic normally consolidated clay*". However, Skempton (1954) only presented values for A related to positive total stress increment as the data for a decrease in total stress was deemed insufficient. Also, as for unloading soil the stress change will be whit in the over-consolidated interval and $u_e \neq \sigma_v$ (Persson, 2004). Therefore, Persson (2004) refers to Equation 2.9 for unloading soil below the pre-consolidation pressure, where $u_e = \sigma_m$.

$$u_e = \frac{\Delta \sigma_v + 2\Delta \sigma_h}{3} \tag{2.9}$$

2.4 Heave pressure in soft clays

A study by Tornborg (2017) conducted for Skanska AB in conjunction with The Development Fund of the Swedish Construction Industry (SBUF), aimed to increase the knowledge across the industry regarding heave pressure and the governing processes. Furthermore, it aimed to support the industry in standardising how heave pressure can be accounted for, mainly when designing slabs. The study concluded that effective heave pressure, EHP against the bottom of a slab can be expressed as seen in Equation 2.10, where n is a heave pressure coefficient. The coefficient n is a function of the time passed between the excavation is finished and the slab is cast, as well as a function of the stiffness of the construction elements of the slab and the soil, as well as the permeability of the soil. In the report, it is stated that n = 0.5 can be considered a conservative approximation of the heave pressure. The report only studies the effect of unloading, the author therefore states that piles could have a preventing effect on the heave, as they act as reinforcement in the soil.

$$EHP = n \cdot \sigma_{v0}^{\prime} \tag{2.10}$$

Where σ'_{vo} is the vertical effective stress at the excavation bottom level prior to construction.

2.5 Excess pore pressure due to pile driving

Pile driving in clay may often result in excess pore pressures in the vicinity of the pile (Hintze et al., 1997). When a displacement pile is driven into the ground, the zone closest to the pile becomes highly disturbed. The soil is displaced outwards from the pile, creating a zone radially from the center of the pile. This zone is referred to as the plastic zone, see Figure 2.1. Vesić (1972) derived an expression for the plastic zone which is seen in Equation 2.11. The expression is based on a cylindrical expansion of an infinite cavity with an internal pressure, under plane strain conditions.

$$\frac{r_{pl}}{r} = \sqrt{\frac{G}{\tau_{fu}}} = \sqrt{\frac{E}{2\tau_{fu}(1+\nu)}}$$
(2.11)

- Where r_{pl} = Radial distance of the plastic zone from the center of the cavity r = Radius of cavity
 - G = Shearing modulus of the soil
 - E = Young's modulus of the soil
 - $\nu =$ Poisson's ratio of the soil
 - $\tau_{fu} =$ Shear strength of soil in undrained conditions



Figure 2.1: Illustration of the plastic zone around a pile represented by a cavity. Inspired by Hintze et al. (1997)

Before any pile is driven into the ground, the stresses acting in the ground are vertical effective stresses σ'_v , horizontal effective stresses σ'_h along with the pore pressure u_o . The vertical and horizontal stresses are the principal stresses at this state, where σ'_h equals $K_0 \sigma'_v$. When a pile is driven into the soil, the radial stress becomes the

major principal stress within the plastic zone (Lo and Stermac, 1965). As a result, the maximum excess pore pressure generated will then consist of two parts. the first part Δu_a , results from the change of ambient pressure, whereas the second part Δu_{τ} results from the shearing. Hence,

$$u_e = \Delta u_\tau + \Delta u_a$$

= $[(1 - K_0) + (\Delta u/p)_{max}]\sigma'_h$ (2.12)

Where
$$(u_e/p)_{max}$$
 = Maximum excess pore pressure ratio
 p = Consolidation pressure

Hintze et al. (1997) adds that Equation 2.12 by Lo and Stermac (1965) can be expressed in an alternate form seen in Equation 2.13. This expression, which is based on measurements obtained by Lo (1968), indicates that the maximum excess pore pressure increases with sensitivity of the clay. This is because the soil skeleton of a more sensitive clay will deform and collapse to a larger extent due to the disturbance caused by driving of the pile.

$$u_{e,max} = [(1 - K_0) + (0.5 + 0.267 \log S_t)]\sigma'_v$$
(2.13)

Where $S_t = \text{Sensitivity of the clay}$

2.5.1 Excess pore pressure gradient

How the excess pore pressure varies with distance from the pile is not particularly well-established, and can be expressed differently. One way of expressing it is proposed by Randolph and Wroth (1979) through Equation 2.14 which describes the excess pore pressure within the plastic zone. As can be seen in the expression, the excess pore pressure increases with undrained shear strength, and decreases with distance from the pile center within the plastic zone.

$$u_e = 2c_u \ln\left(r_{pl}/r_x\right) \tag{2.14}$$

Where
$$u_e = \text{Excess pore pressure due to pile driving}$$

 $c_u = \text{Undrained shear strength}$
 $r_x = \text{Radial distance from pile center } r \leq r_x \leq r_{pl}$

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A different expression for describing the excess pore pressure distribution around the pile is proposed by Pestana et al. (2002), see Equation 2.15, which is a modification of Vesić's (1972) work. Pestana et al. (2002) states that Equation 2.15 appears to yield an accurate estimate of the pore pressure ratio at different radial distances from the pile. Piezometer data collected during pile driving in silty clay and Equation 2.15 gives results that are in close agreement with the measured pore pressure ratios around the pile.

$$u_e/\sigma'_{vi} = r_{ueD}\sqrt{3r_0/(r_0 + x)}$$
(2.15)

Where r_{ueD} = Pore pressure ratio at a distance of 1 pile diameter r_0 = Radius of pile x = Distance from pile wall

2.6 Dissipation of excess pore pressures

The excess pore pressures induced by pile driving will dissipate with time. The excess pore pressure will mainly dissipate radially from the pile, allowing for the soil to consolidate (Randolph and Wroth, 1979). Using cavity expansion theory Randolph and Wroth derived a set of equations which describes the process of consolidation around a driven pile, based on the pile represented as an expanding cavity in a soil medium. These equations have been solved and presented as a set of normalised curves for different stiffness ratios G/c_u . Figure 2.2, obtained from Randolph and Wroth (1979) displays the dissipation curves at the pile face for different ratios of G/c_u . c used in the normalised x-axes, is the coefficient of consolidation, assumed to be equal to c_v , and r_0 is the radius of the pile. These curves can be used to estimate the pore pressure at the pile face at different times after the pile has been driven.



Figure 2.2: Variation of excess pore pressure at the pile face with time, from Randolph and Wroth (1979) (Permission for reuse granted by John Wiley & Sons (Wiley)).

The rate of dissipation will also vary radially from the pile. While initially the excess pore pressure are zero outside of the plastic zone, the dissipation results in non-zero excess pore pressures spreading to radii outside the plastic zone (Randolph and Wroth, 1979). Figure 2.3 depicts solutions to the equations by Randolph and Wroth for soil with $G/c_u = 50$. The curves correspond to different values of the time factor $T = (c_v \cdot t)/r_0^2$, which can be converted into an amount of time, where $c_v = kM_0/\gamma_w$ is the coefficient of consolidation. From the curves it can be derived that the excess pore pressure close to the pile drops rapidly just after driving. In a later article, Randolph (2003) presents results for $G/c_u = 100$, which can be seen in Figure 2.4. Both graphs follows a similar trend, with the latter one reaching a greater initial ratio $\Delta u/c_u$. Observe that the time factor curves are different between the graphs, making it difficult to directly compare dissipation between the two soil types. Baligh (1986) states that cavity expansion theory may overestimate the predicted excess pore pressures, due to not following the correct strain path. Baligh (1986) adds that for lightly over-consolidated soil, this error will be compensated for by ignoring excess pore pressure caused by the shearing of the clay.



Figure 2.3: Variation of radial distribution of excess pore pressure with time after pile driving in soil with $G/c_u = 50$, from Randolph and Wroth (1979) (Permission for reuse granted by John Wiley & Sons (Wiley)).



Figure 2.4: Variation of radial distribution of excess pore pressure with time after pile driving in soil with $G/c_u = 100$, from Randolph (2003).(Permission for reuse granted by Emerald Publishing Limited.

2.7 Numerical modelling

When modelling the behavior of the soil, different models can be used but each model will carry a varying degree of accuracy (Brinkgreve, 2005). Using a simple linear elastic model to analyse the behaviour of the soil might not capture its complexity due to its limitations. However, by using more advanced models, more parameters needs to be derived, requiring more soil test and assumptions from the responsible engineer. In the following subsections, important parameters, two constitutive models, and how they are implemented in the numerical analysis tool Plaxis 2D will be presented.

2.7.1 Geometry conditions for analyses

In Plaxis, either an axisymmetric or a plane strain model can be chosen to model the problem. The axisymmetric model is used for circular structures, where the y-axis represents the axial line of symmetry and the x-axis the radial distance (Bentley, 2023a). The model is solved in two dimensions as the circumferential direction has a thickness of zero. The model assumes a stress state that is identical in any angular direction as the cross-section has a uniform radial distance and load distribution.

The plane strain model is of infinite length. The displacements and strains are assumed to be zero in the out-of-plane directions, however, the normal stresses are taken into account (Bentley, 2023a). An example of a plane strain problem and an axisymmetrical can be seen in figure 2.5.



Figure 2.5: Examples of a plane strain (left) and axisymmetrical problem (right) (Inspired by Bentley (2023a)).

2.7.2 The Mohr-Coulomb model

Mohr-Coulomb is a linear elastic perfectly-plastic model that is normally used as a first approximation of the soil response (Bentley, 2023a). The model is partly based on Hooke's law of isotropic elasticity, and partly on Mohr-Coulomb failure criterion.

This is based on the fact that the strains consist of an elastic part (recoverable) and a plastic part (irrecoverable), see Equation 2.16 (Muir Wood, 2004). This means that the soil behaves linear elastic without sustaining any irrecoverable deformation up to a certain stress level, afterward the deformations are calculated assuming perfect plasticity Karstunen and Amavasai, 2017. It is the relation between stresses and strains that is described by Hooke's law, see Equation 2.17. Muir Wood (2004) writes that "the elastic strain increment occurs whenever there is a change in stress (where the stress and strain are thought of as six-dimensional vectors)". When the mobilized shear stress at any plane equals the shear strength, the soil starts to endure plastic deformations. The formula for critical shear stress can be seen in Equation 2.18.

$$\delta\varepsilon = \delta\varepsilon^e + \delta\varepsilon^p \tag{2.16}$$

$$\begin{bmatrix} \delta p' \\ \delta q \end{bmatrix} = \begin{bmatrix} K & 0 \\ 0 & 3G \end{bmatrix} \begin{bmatrix} \delta \varepsilon_p^e \\ \delta \varepsilon_p^e \end{bmatrix}$$
(2.17)

where

$$p' = Mean \text{ effective stress}$$

$$q = Deviatoric \text{ stress} (q = \sigma'_v - \sigma'_h)$$

$$K = Bulk \text{ Modulus}$$

$$G = Shear \text{ Modulus}$$

$$\delta \varepsilon^e_p = \text{Incrimental elastic strain}$$

$$\delta \varepsilon^e_q = \text{Incrimental elastic strain}$$

$$\tau_f = c' + \sigma' tan \phi' \qquad (2.18)$$

where c' = Effective cohesion $\phi' =$ Effective friction angle

In Figure 2.6 Mohr's circle is presented. If the stress circle is inside the two tangent lines, no failure will occur, but if the circle touches the Coulomb yield surface, failure will occur (Verruijt, 2017). The yield surface can be described as an extension of Coulomb's formula of critical shear stress, see Equation 2.19, the model parameters used in the yield functions are the friction angle (ϕ') and the cohesion (c'). The yield function is derived from the Mohr-Coulomb circle using geometric relationships. If the yield function is $0 < F \leq 1$, the soil behaves elastically, if the yield function is F = 0, the soil is yielding. For the Mohr-Coulomb model, the yield surfaces create an irregular hexagon cone in the principal stress space, see Figure 2.7. These corners may cause problems during computation due to the fact that they are not continuous.

$$F = (\sigma'_1 - \sigma'_3) - (\sigma'_1 + \sigma'_3)sin\phi' - 2c'cos\phi' = 0$$
(2.19)

2. Theory





Figure 2.7: Mohr-Coulomb in principal stress space (retrieved from Sun et al. (2006)) (Permission for reuse granted by Elsevier).

Figure 2.6: Mohr's circle, inspired by Verruijt (2017)

The deformations when failure is reached assume perfect plasticity, and often nonassociate flow rule, as associate flow rule can easily in the M-C model give negative normal strains (Karstunen and Amavasai, 2017). The flow rule for Mohr-Coulomb is defined through the dilatancy angle (ψ') of the soil, see Equation 2.20, which is also an extension of Coulomb's shear stress formula. The dilatancy angle is strongly dependent on the density of the soil, as sand usually have a higher dilatancy angle then clay.

$$G(\sigma') = \tau - \sigma'_n tan\psi' - const = 0$$
(2.20)

The parameters required for the Mohr-Coulomb model in Plaxis 2D can be seen in Table 2.1. Instead of Young's modulus (E), the shear modulus (G), and the oedometer modulus (E_{oed}) can also be used.

Parameter	Description	Unit
Е	Young's modulus	kN/m^2
ν	Poisson's ratio	-
c'	Cohesion	kN/m^2
ϕ'	Friction angle	0
ψ	Dilatancy angle	0

Table 2.1: Stiffness and strength parameters used by the M-C model in Plaxis 2D (Bentley, 2023a)

2.7.2.1 Limitations of Mohr-Coulomb model

The Mohr-Coulomb model is, as written in the beginning of this section, a first order approximation. Some of the limitations of the model are:

- Does not account for stress-dependency of stiffness (Bentley, 2023a). Usually as a soil is compressed the stiffness changes, but this is not taken into account in the Mohr-Coulomb model.
- Does not take time-dependent behavior as creep into consideration (Bentley, 2023a).
- Isotropic linear elastic behaviour gives unrealistic stress paths when simulating undrained behaviour.

2.7.3 Modified Cam Clay

The Modified Cam Clay model (MCC) is a soil model proposed by Roscoe and Burland (1968a), which is —as the name suggests— a modification of the Cam Clay model proposed by Schofield and Wroth (1968). What sets them apart is the shape and function that describes the yield surface, or yield locus as it's commonly referred to in literature (Muir Wood, 2004). Characterising these models are that they account for plastic deformation caused by compression, and that they incorporate a hardening response. This originates from the observed behaviour of clay during compression, which is the large change in volume that typically occurs when the stresses acting on the soil are increased in proportion. A large part of the resulting change in volume induced by this type of compression is irrecoverable (i.e. plastic). However, when a proportional stress path is applied to a Mohr-Coulomb model the response is elastic. (Proportional stress-path signifying the relationship between mean effective stress $p' = (\sigma'_v + 2\sigma'_h)/3$ and deviatoric stress $q = \sigma'_v - \sigma'_h$ is positive linear, i.e. the q over p' curve increases linearly.) The Cam Clay models provides an alternative to the Mohr-Coulomb model by incorporating this mechanism of plastic volumetric change during compression.

2.7.3.1 Elastic properties

The MCC model assumes that the soil possesses isotropic elastic behaviour, defined by the bulk modulus K and shear modulus G (Muir Wood, 2004). Additionally, the volumetric response of the soil can be expressed as:

$$v = v_k - \kappa \ln p' \tag{2.21}$$

Where κ is derived as the slope of the unload-reload line seen in figure 2.9, and v_k is a specific volume for a particular unloading-reloading relationship (Muir Wood, 2004). The incremental elastic strain relationship thus becomes:

2. Theory

$$\delta \varepsilon_p^e = -\frac{\delta v}{v} = \frac{\kappa}{v} \frac{\delta p'}{p'} \tag{2.22}$$

The bulk modulus K, a material property governing the volumetric decrease of a material under compression, can be expressed as in Equation 2.23 below. This suggests that K is not constant, but rather dependent on the stress level (Muir Wood, 2004)

$$K = \frac{\delta p'}{\delta \varepsilon_p^e} = \frac{v p'}{\kappa} \tag{2.23}$$

The incremental elastic strain relationship regarding deviatoric stress, for a constant shear modulus G, is then expressed as:

$$\delta \varepsilon_q^e = \frac{\delta q}{3G} \tag{2.24}$$

Following this, the elastic stiffness relationships can be expressed as follows:

$$\begin{bmatrix} \delta \varepsilon_p^e \\ \delta \varepsilon_q^e \end{bmatrix} = \begin{bmatrix} \kappa / v p' & 0 \\ 0 & 1/3G \end{bmatrix} \begin{bmatrix} \delta p' \\ \delta q \end{bmatrix}$$
(2.25)

2.7.3.2 Yield locus

As previously mentioned, the Cam Clay model (and MCC) defines a yield locus which determines whether a stress state will result in an purely elastic or elastic and plastic response. The yield locus is represented by a line, generating a shape within the p' - q stress plane. In the case of the MCC model, the yield locus, illustrated in Figure 2.8, has the shape of an ellipse (Roscoe and Burland, 1968b). The actual yield function of the shape is defined in Equation 2.26. This function governs the behaviour of the soil at a certain stress state. If f < 0 the soil behaviour is elastic, whereas f = 0 results in yielding. Moreover, f is not allowed to exceed 0, instead the yield locus expands as the stress state "surpasses" the ellipse. The yield strength of the soil essentially increases if a stress state were to exceed the current yield strength. This behaviour is to a certain extent analogous to how the soil behaves with regards to consolidation.

$$f = \frac{q^2}{M^2} + p'(p' - p_p)$$
(2.26)



Figure 2.8: Yield locus of MCC model along with the Critical state line, based on Muir Wood (2004)

The Critical State Line (CSL), part of Figure 2.8, dictates the shear resistance of the soil.. This originates from the assumption of associated flow, which means that the plastic strain increment vector (shown in Equation 2.27) is constantly normal to the yield surface of the current state of stress (Muir Wood, 2004). The Critical State Line intersects the apex of all possible yield surfaces, which in combination with the aforementioned flow rule means that the plastic strain increment vector will always be vertical along this line, i.e. the horizontal (volumetric) component will be equal to zero. What this means regarding the behaviour of the soil, is that if the stress state reaches the apex of the yield locus the soil will deform, despite no variation in volumetric plastic strain ($\delta \varepsilon_p^p = 0$; $\delta p_c = 0$), in other words, critical state is reached meaning plastic shearing under condition of no change in volume or effective stress. Furthermore, the behaviour of the soil can be divided into a "dry side" and a "wet side" depending on whether the stress state lies left or right of the CSL. If the stress state is on the yield locus line, right from the CSL (wet side), the soil will compact (since $\delta \varepsilon_p^p > 0$) and harden ($\delta p_c > 0$) owing to the fact that the plastic strain incremental vector always is normal to the yield locus. Contrary on other side of the CSL (dry side) the soil will dilate and soften when the stress state is on the yield locus line ($\delta \varepsilon_p^p < 0$ and $\delta p_c < 0$) Roscoe and Burland, 1968b.

$$\begin{bmatrix} \delta \varepsilon_p^p \\ \delta \varepsilon_q^p \end{bmatrix} \tag{2.27}$$

In short, assume that the stress state is always on the yield surface in the following examples: When the stress state is right from CSL, the soil hardens and contracts as the yield locus expands. When the stress state is left from the CSL the soil softens and dilates, as the yield locus contracts. When the stress state reaches the CSL, the soil has reached critical state, i.e. shearing occurs under condition of no volume change or effective stress. If the stress state moves fully within the yield locus, the soil response is elastic.

2.7.3.3 Formulation in Plaxis

This part presents the formulations of the Modified Cam Clay model, which is relevant for use in Plaxis. Figure 2.9 depicts compression and unloading-reloading lines, typically obtained from the trend of the respective curves in an oedometer test (Muir Wood, 2004). The slopes of these lines are used to model the behaviour of the soil in the MCC model. The relationship between void ratio e and mean effective stress p' during virgin isotropic compression is expressed in Equation 2.28. λ is referred to as the isotropic compression index in the Plaxis Material Models Manual (Bentley, 2023a). This index describes the compressibility of the soil during primary loading. Equation 2.29 describes the relationship between void ratio and mean effective stress during the unloading-reloading phase, where κ is the isotropic swelling index. κ determines how the soil swells during unloading, and compresses during reloading until the stress state p_0 is reached once again, thereafter compressing in accordance with λ during further load. κ and λ are both used to describe the plastic compliance relationship, part of the hardening rule, described by Equation 2.30, which dictates how the size of the yield locus is dependent on the plastic volumetric strain.

$$e - e_0 = -\lambda \ln\left(\frac{p'}{p_0}\right) \tag{2.28}$$

$$e - e_0 = -\kappa \ln\left(\frac{p'}{p_0}\right) \tag{2.29}$$

Where

 $e_{\theta} =$ Initial void ratio for loading/unloading

 $p_{\theta} =$ Mean effective stress at start of unloading

 $\lambda =$ Compression index

 $\kappa =$ Swelling index



Figure 2.9: Compression and unloading-reloading lines, linear void ratio versus log mean effective stress, based on Muir Wood (2004)

$$\begin{bmatrix} \delta p'_0 / \delta \varepsilon_p^p \\ \delta p'_0 / \delta \varepsilon_q^p \end{bmatrix} = \begin{bmatrix} v p'_0 / (\lambda - \kappa) \\ 0 \end{bmatrix}$$
 (2.30)

The yield function in Plaxis is described as in Equation 2.26. Furthermore, the parameters required to apply the Modified Cam Clay model in Plaxis can be seen in Table 2.2.

Table 2.2: Parameters of the MCC model in Plaxis 2D (Bentley, 2023a)

Parameter	Description	Unit
λ	Cam-Clay compression index	-
κ	Cam-Clay swelling index	-
$ u_{ur}$	Poisson's ratio in elastic un-/reloading,	-
e_{init}	Initial void ratio for loading/unloading	-
M	Slope of CSL	-
K_0^{nc}	Coefficient of lateral stress in	-
-	normal consolidation. Derived from M.	-

M can be obtained from the friction angle ϕ observed in triaxial tests, through different expressions depending on the stress state (Bentley, 2023a). Equations 2.31, 2.32, and 2.33 are used for triaxial compression, triaxial extension, and plane strain respectively. Additionally, M influences K_0^{nc} which in Plaxis is determined through the relationship seen in Equation 2.34. As a result of this, when M is chosen with regards to predicting the correct shearing strength, the value for K_0^{nc} becomes overestimated in normally consolidated conditions.

$$M = \frac{6\sin\phi}{3-\sin\phi} \tag{2.31}$$

$$M = \frac{6\sin\phi}{3+\sin\phi} \tag{2.32}$$

$$M = \sqrt{3}\sin\phi \tag{2.33}$$

$$M = \sqrt{\frac{(1 - K_0^{nc})^2}{(1 + 2K_0^{nc})^2} + \frac{(1 - K_0^{nc})(1 - 2\nu_{ur})(\lambda^*/\kappa^* - 1)}{(1 - 2K_0^{nc})(1 - 2\nu_{ur})\lambda^*/\kappa^* - (1 - K_0^{nc})(1 + \nu_{ur})}}$$
(2.34)

Where
$$\lambda^* = \lambda/(1+e)$$

 $\kappa^* = \kappa/(1+e)$

2.7.3.4 Limitations of MCC

One limitation of this material model is that it doesn't account for creep deformations, which is when the soil deforms with time during constant stress (Knappett and Craig, 2012). There are other constitutive models which does account for this, thus requiring a creep related input parameter which brings further complexity to the model, as well as the spadework. Another thing to be weary about with regards to MCC, is that it can generate very large shear stresses when stress paths cross the critical state line (Bentley, 2023a). Additionally, the aforementioned softening behaviour seen during certain stress paths is also something to be cognizant of.

2.7.3.5 Cavity expansion and MCC

In a paper by Chen and Abousleiman (2012), a semi-analytical method was developed which models a gradual cavity expansion in a Modified Cam Clay soil. Results using this model indicate that the OCR of the soil has a strong influence on generated excess pore pressure around the cavity, both in terms of magnitude and the distribution. The results presented from using the method shows that the response of the soil is in compliance to results produced from a finite-element analysis of cavity expansion by Randolph et al. (1979), also using the Modified Cam Clay model. For a soil with an OCR of 1.2 the excess pore pressures and the distribution of which, showed significant similarities to the results of Randolph and Wroth (1979), shown in Figure 2.3.

2.7.4 Pore pressure definitions in Plaxis

In Plaxis, Terzhagi's principle (Equation 2.1) is developed further taking into account the saturation (S_{eff}) and the pore pressure coefficient (α_{biot}) resulting in Equation 2.35.

$$\sigma = \sigma' + \alpha_{biot} S_{eff} u_w \tag{2.35}$$

where $\alpha_{biot} =$ Biot's pore pressure coefficient $S_{\text{eff}} =$ Effective degree of saturation

When using the behaviors Undrained A or Undrained B in Plaxis, excess pore water pressure is generated during consolidation and plastic calculations (Bentley, 2023a). In (2023a) the pore pressure (u_w) is calculated as in Equation 2.2, where the total pore pressure is the sum of the static pore pressure (u_s) and the excess (u_e) . The static pore pressure is given or calculated (if fully coupled), from the chosen groundwater level/ phreatic level, whereas the excess pore water pressure needs to be calculated (Bentley, 2023a). The excess pore pressure changes over time, therefore the derivative of the total pore pressure can be written as in Equation 2.36.

By using the inverted form of Hooke's law and multiplying the stiffness matrix with the effective stress in all directions (xx, yy, zz), an equation to calculate the rate of excess pore pressure change is generated (Equation 2.37). Also, when calculating the excess pore pressure in an effective stress calculation, a bulk modulus of water will be added to the stiffness matrix (Bentley, 2023b). In Equation 2.38 and 2.39 the compressibility for water respectively the solid material is presented, these are dependent on the bulk modulus for water respectively the solid material.

$$\dot{u}_w = \dot{u}_e \tag{2.36}$$

$$\dot{u}_e = \frac{\alpha_{biot} \dot{\varepsilon}_v}{nC_w + (\alpha_{biot} - n)C_s}$$
(2.37)

$$C_w = \frac{1}{K_w} \tag{2.38}$$

$$C_s = \frac{1}{K_s} \tag{2.39}$$

where $C_{w} = C_{ompressibility}$ of water $C_{s} = C_{ompressibility}$ of soild n = soil porosity

In Plaxis (2023a) equations for the undrained parmaters $E_{\rm u}$ and $v_{\rm u}$ are generated through Hooke's law. The inverted form of Hooke's law is used but with undrained parameters and in terms of total stress as opposed to effective stress. The equations can be seen below.

$$E_u = 2G(1 - v_u) \tag{2.40}$$

$$v_u = \frac{3v' + \alpha_{biot}B(1 - 2v')}{3 - \alpha_{biot}B(1 - 2v)}$$
(2.41)

$$B = \frac{\alpha_{biot}}{\alpha_{biot} + n(\frac{K'}{K_w} + \alpha_{biot} - 1)}$$
(2.42)

where B = Skempton's B parameter

The value for $v_{\rm u}$ is by default set to 0.495 making it compressible to a small degree, if $v_{\rm u}$ was set to 0.5 it would be fully incompressible but it would lead to a singularity of the stiffness matrix and undefined equations (Bentley, 2023a). In Plaxis they further explain that the bulk mudulus of water needs to be greater than the bulk modulus of the soil skeleton, to ensure this v' needs to be less or equal to 0.35.

The Biot's coefficient is equal to 1 for incompressible grains and less than 1 for compressible grains (Bentley, 2023a). The compressibility of the grains is normally disregarded as the compressibility of the soil skeleton is usually considerably higher. However, at great depths and under high pressure the stiffness of the soil skeleton becomes comparable to the stiffness of a single grain. The default value in Plaxis for α_{biot} is 1 for the undrained definition option but can be changed to values in the range of 0.001 and 1.

To summarise, there are different ways to obtain the excess pore pressure and it depends on how the bulk modulus is calculated. The different ways are:

- (Biot effective stress concept) Specifying K_w and α_{biot} .
- (v-undrained definition- Skempton B based) Specifying Skempton's B-parameter.
- (v-undrained definition Direct) From Equation 2.43, when $\alpha_{biot} = 1$

$$\frac{K_w}{n} = \frac{3(v_u - v')}{(1 - 2v_u)(1 + v')} \quad K' = \frac{0.495 - v'}{1 + v'} 300K' \ge 30K' \tag{2.43}$$

2. Theory

3

Case study

Brf Sydney is being constructed as part of the new district Masthuggskajen in Gothenburg, Sweden. Together with several actors, Masthuggskajen is, at the time of writing, being redeveloped to contain housing, hotels social areas, and offices. Figure 3.1 illustrates the area of Masthuggskajen when completed. Number 18 in Figure 3.1 displays where Brf Sydney is currently under construction.



Figure 3.1: Overview of Masthuggskajen, Brf. Sydney is located at number 18 (retrieved from Masthuggskajen, 2024-01-24).

3.1 Soil Characteristics

The soil characteristics of the site are influenced by the areas loading history, as Masthuggskajen has historically been used as a wharf. Before the area was used as a wharf the shoreline was situated close to Första Långgatan (Schager, 2017), just south of Brf. Sydney. When constructing the wharf at the end of the 19th century, the area was filled with fill material, thus moving the shoreline north to where it is situated today. Therefore, at the end of the 19th century, the area in which Brf Sydney is situated was expanded and filled with fill material. The fill material consists of a mixture of sand, silt, gravel, clay, and brick remains (ELU Konsult AB, 2021). The thickness of the fill varies between 2-4 meters and the ground surface level in the area is approximately +2.0 m AMSL (Above Mean Sea Level), in reference system RH2000. The groundwater table is located at a level of approximately +0.5 m and is assumed to be hydrostatic, but as the site is close to Göta river the groundwater table is also affected by changes in water levels. Below the fill material, there is a clay layer of approximately 100 meters thickness that lies on top of a layer of friction soil on bedrock. (ELU Konsult AB, 2021). Near the site of Brf. Sydney the Göta tunnel is situated, which was studied in Tornborg et al. (2021), approximately located at number 23 in Figure 3.1. The authors write that the areas around the Göta River are mainly dominated by deep deposits of sensitive soft clays, which applies to Brf. Sydney. The study by Tornborg et al., benchmarked a rate-dependent constitutive model know as Creep-SCLAY1S, against measured data from an excavation as part of the construction of the Göta Tunnel in Gothenburg. Although the Göta Tunnel excavation was carried out under water, pore pressure data from this study might be useful as a tool for comparison with the pore pressure data.

In Table 3.1 the unit weight, and strength properties of the soil deposits at Brf. Sydney is presented. The values for the unit weight and strength properties in Table 3.1 are taken from the Geotechnical PM written by Skanska (2022b) for the design of slab, sheet pile wall, and piling foundation.

Table 3.1: Dimensions, unit weights, and strength parameters of the different soil layers, retrieved from Skanska (2022b)

Soil Lavor Floyat	Flowation [m]	Unit weight $[kN/m^3]$	Streng	Strength parameters		
Soli Layer	Elevation [m]		$\phi[^{\circ}]$	$c_u[kPa]$		
Fill	+2 to -2	$\gamma = 18, \gamma_s = 20$	36			
Clay 1	-2 to -3	$\gamma = \gamma_s = 15.5$	30	17.5		
Clay 2	-3 to -8	$\gamma = 16.5$	30	17.5		
Clay 3	-8 to -20	$\gamma = 16.5$	30	$24 + 0.4z^*$		
Clay 4	-20 to -40	$\gamma = 16.5$	30	$28.8 + 1.6z^*$		
Clay 5	-40 to -100	$\gamma = 16.5$	30	$60.8 + 1.6z^*$		

3.2 Pore pressure sensors

Five PVT direct push piezometers (Geotech AB, 2024) with built-in data loggers were installed in the center of the site pre-construction at depths of 5, 10, 15, 20, and 40 meters. The approximate position of the piezometers is illustrated in Figure 3.2. The piezometers were installed to measure the pore water pressure during construction, but they will not be removed after construction, enabling future research. Through the fill material, a casing pipe was used to protect the piezometers, the soil was pre-drilled to 20 cm above the final placement of each device. The piezometers were then pressed down to their respective depths, for the tip to end up in undisturbed material. The cables are protected with 1" pipes. The piezometers log data two times a day, once at midnight and once at noon.

3. Case study



Figure 3.2: Position of the piezometers within the construction site (modified technical drawing, G-15-1-0001 (Skanska Teknik, 2023).

3.3 Construction process

The construction of Brf. Syndney's foundation was done as follows; Firstly, the whole site was excavated from elevation +2 m to +0.6 m, during the period between 2023-03-03 and 2023-03-31 (Jansson, 2024). Secondly, an excavation was carried out sequentially in parts, down to elevation -1.8 m. The excavation was done in this manner to allow for the installation of struts at the corners of the site. Afterward, a layer of blinding concrete was cast on the excavation bottom, on which the construction vehicles could safely operate. Finally, pre-casted concrete piles were driven through pre-casted holes in the blinding concrete slab.

3.3.1 Excavation process

As mentioned before, the whole site was first excavated from +2 m down to +0.6 m AMSL. This was the maximum depth that could be excavated before struts and bracers were required for stability. Following this excavation, the site was divided into zones where excavation was performed in conjunction with strut installation

between different dates. Figure 3.3 displays information regarding the division of the excavation zones as well as the dates in which the excavation was carried out (Jansson, 2024).

Shortly after each zone was excavated, a 20 cm thick slab of blinding concrete was cast, on top of an approximately 10 cm thick macadam layer. The arrows in Figure 3.3 represent the direction of each excavation, which was done with regard to the installation of the struts. At the corner zones, the inner strut was installed first then followed by the outer strut. Furthermore, the north (N) and south (S) zone had inclined struts installed between the sheet pile wall and the blinding concrete slab. As a result of archaeological findings uncovered during the excavation, the excavation process was prolonged and the piling was postponed.



Figure 3.3: Partition of zones during second excavation phase (from +0.6 m to -1.8 m), with dates of respective excavation span (modified technical drawing, G-15-1-0001 (Skanska Teknik, 2023)).

3.3.2 Piling process

To enable the pilling equipment to work safely from the excavation bottom blinding concrete was cast and holes were prepared in the slab in which the piles would be driven. The foundation consisted of 246 piles, the piling process started on 2023-14-12 and progressed through the winter and early spring of 2024. Before each pile was driven into the ground, the pile locations was pre-augered to a depth of 15 m. In Figure 3.4 the timeline of the pile installation can be seen. After all the piles had been installed, rebar and form works commenced and then the 0.45 m thick slab was cast.

3. Case study

The foundation is built on three different types of piles, the piles are all 57 meters long and have the same dimensions. Type 1 and type 2 make up approximately 90 % of the 246 piles, the 57 meter long piles consist of three concrete piles of 14 meters each and one timber pile of 15 meters. The concrete piles are squared with the dimension of 270x270 mm² and the timber pile is circular with an increasing radius of $\emptyset = 170+12$ mm/m. The difference between type 1 and type 2 is in the class of strength of the concrete elements, type 1 has a strength of C50/60, and type 2 of C60/75, type 2 piles are designed with a higher class of strength. Type 3 has the same dimension and strength as type 1, but for type 3 the rebar is attached to the slab. Pile type 3 acts as tension piles designed to counteract uplifting forces, generated by water pressure and restrained heave before the slab is fully loaded by the superstructure



Figure 3.4: Pile installation reported per week at Brf. Sydney, the figure was generated with knowledge from propile about installation dates and the technical drawing, K-15-1-0080.

3. Case study

4

Method

The methodology used in this thesis consisted of three parts. In the first part, the measured pore water pressure data and the production stages at Brf. Sydney was compiled into a timeline. In part two, two analytical methods were used to analyse how unloading and piling, separately, affect the excess pore pressure in clay. To make sure that the model behavior is consistent with the theory with regards to piling and unloading, the numerical model was validated against the analytical results. (The excess pore pressure with regards to piling was validated against analytical calculations and the unloading behavior was validated against consolidation theory, both of which are thoroughly explained in later sections.) In the final part, a 2D numerical finite element model was constructed which consisted of multiple steps to simulate the whole construction sequence of the foundation. A parametric study was performed, using a FE-model, to study how varying the construction order and parameters affect the results.

4.1 Pore pressure data, Brf. Sydney

The timeline of the excavation was retrieved from a supervisor at Brf. Sydney, this was compiled and plotted with the corresponding pore pressure data. To establish a timeline for the pile installation the software *Propile* was used.

The collected pore pressure data were given in the form of mH_2O , which was converted to kPa. The density of the water was set to 1012.5 kg/m³ in the calculation because of its proximity to Göta River indicating a higher level of salinity. The static pore pressures were calculated by assuming a groundwater level at +0.5 m, with hydrostatic increase with depth. This was then used to calculate the excess pore pressure. The piezometers did not log the corresponding atmospheric pressure, instead the data were collected from SMHI (Swedens Meterological and Hydrological Institute). An average value of the atmospheric pressure was chosen since correcting for measured pressure values for each date introduced more noise and fluctuations in the corrected pore pressures. Rain data were also retrieved from SMHI and compared to the pore pressure data, this did not indicate a correlation and was thus not investigated further.

4.2 Analytical calculations

This section describes the procedure of the analytical calculations of pore pressure during the two construction stages, excavation and piling. Excess pore pressures were analysed separately for each construction stage. The reason for this is that reasonable empirical or analytical methods concerning the combined effect of unloading and piling have been difficult to obtain, hence no combined analytical analysis of both excavating and piling have been conducted. The results of these calculations were compared against the results produced in the numerical model (see section 5.2 and 5.3). The depths chosen for the analytical calculations correspond to the depths at which the piezometers are located in the soil under Brf. Sydney.

4.2.1 Negative excess pore pressures due to unloading

The negative excess pore pressure when the soil is unloaded during excavation was calculated using Equation 2.7. To use this equation, the extent of how each excavation contributes to unloading the soil had to be calculated. This was done using Equation 4.1 found in Alén (1998), which is based on Boussinesq's approximation of the distribution of stresses in soil generated by a load. This equation was used to calculate the difference in vertical stress, that each excavation stage contributes with. A negative load corresponding to the unloading caused by the excavated soil was used as input for the equation.

$$\Delta \sigma_{v}(x, y, z) = \frac{p}{\pi^{2}} \cdot \left[\left[\frac{2z(B+2x)}{4z^{2} + (B+2x)^{2}} + \arctan\left(\frac{B+2x}{2z}\right) \right] + \left[\frac{2z(B-2x)}{4z^{2} + (B-2x)^{2}} + \arctan\left(\frac{B-2x}{2z}\right) \right] \right] \cdot \left[\left[\frac{2z(L+2y)}{4z^{2} + (L+2y)^{2}} + \arctan\left(\frac{L+2y}{2z}\right) \right] + \left[\frac{2z(L-2y)}{4z^{2} + (L-2y)^{2}} + \arctan\left(\frac{L-2y}{2z}\right) \right] \right]$$
(4.1)

Where p = Surcharge evenly distributed on an area B = Width of area L = Length of Area

To calculate the load spread, a coordinate system was derived, where the position of the piezometers was assumed as the origin. Furthermore, the zones seen in Figure 3.3 were converted into negative uniform loads, acting within each excavation zone. How each zone contributes to unloading the soil at the point and depth of each piezometer could then be assessed. With $\Delta \sigma_1$ known, $\Delta \sigma_3$ was calculated using Equation 4.2. Where *const.* is a constant describing the relationship between $\Delta \sigma_3 / \Delta \sigma_1$. This constant was obtained usin Hansbo (1990), and equal to 0.2 in this case. After calculating the contribution in negative excess pore pressure of each excavation, they were then summarized and plotted against the days each excavation lasted. This resulted in a potential maximum negative excess pore pressure at different times during the excavation process. Therefore, this calculation does not take into account the consolidation of the negative excess pore pressures, which starts as soon as the area is excavated. The depths chosen for these analyses correspond to depths where piezometers are located.

$$\Delta \sigma_3 = \Delta \sigma_1 \cdot const. \tag{4.2}$$

4.2.2 Excess pore pressures due to piling

Initial excess pore pressures due to pile installation were calculated using the expression proposed by Randolph and Wroth (1979), which is explained in the following section. Furthermore, using graphs developed by Randolph (1979, 2003) variation of excess pore pressure around one pile could be determined.

4.2.2.1 Initial excess pore pressure distribution

The initial pore pressure distribution around a pile after driving was calculated using equation 2.14 by (Randolph and Wroth, 1979). Equation 4.3 from Vesić (1972), was used to determine the radius of the plastic zone r_{pl} .

$$r_{pl} = r_0 \sqrt{\frac{G}{c_u}} \tag{4.3}$$

Where $u_e = \text{Excess pore pressure due to pile driving}$ $c_u = \text{Undrained shear strength}$ $r_x = \text{Radial distance from pile center } r \leq r_x \leq r_{pl}$

To calculate the initial pore pressure distribution, both the shear modulus G and undrained shear strength c_u are required. The undrained shear strength c_u for the different depths are seen in Table 4.1. Using the approximation that $M_0 \approx 500c_u$ (see Section 2.2.1), along with the relationships in Equation 4.4 and 4.5, all of which were obtained from Larsson (2008), G could be determined. Poisson's ratio ν was chosen to be equal to 0.2.

Level [m]	$c_u \; [\mathrm{kPa}]$
-18	28
-38	57.6
-43	65.6

Table 4.1: Undrained shear strengths c_u at each respective depth used in the analytical calculations. Values retrieved from Skanska (2022a).

$$M = \frac{E(1-\nu)}{(1+\nu)(1-2\nu)}$$
(4.4)

$$G = \frac{E}{2(1+\nu)} \tag{4.5}$$

The excess pore pressure variation with radial distance from the pile was then calculated according to Equation 4.6, obtained from (Randolph and Wroth (1979)).

$$u_e = 2c_u \ln\left(r_{pl}/r_x\right) \tag{4.6}$$

4.2.2.2 Excess pore pressure variation at pile face

The following procedure was performed for different depths, to calculate the variation of excess pore pressure at the pile face with time. First, the stiffness ratio G/c_u at the corresponding depth was calculated. Using the empirical approximation that $M_0 \approx 500c_u$, with the relationships in Equation 4.4 and 4.5, the stiffness ratio G/c_u becomes constant with depth and equal to 187.5.

Having obtained the stiffness ratio, points just under the curve corresponding to a stiffness ratio $G/c_u = 200$ (found in Figure 2.2) were extracted using a web-based tool called Plot Digitizer. These points were then exported in a CSV-file for further calculations using Python. In Figure 2.2, the x-axis is based on the time factor T and the y-axis is expressed in the ratio $\Delta u/c_u$. The equation for the time factor T can be seen in Equation 4.8 (Randolph and Wroth, 1979). Important to note is that c_v is the coefficient of consolidation in the vertical direction, and that the consolidation of excess pore pressures around the pile likely occurs in the horisontal direction. However, Randolph and Wroth (1979) states that that c can be assumed to be equal to c_v , since at large radii the radial consolidation resembles that of one-dimensional consolidation. Hence, c_v was determined using Equation 4.7, where $M = M_0$ and k was assumed equal to 10^{-9} m/s which is typical for clays in Sweden (Larsson, 2008)). γ_w was assumed equal to 10.125 kg/m³ (see section 4.1). A Python script was created that read the data points from the CSV-file and converted them from the normalised axes seen in Figure 2.2, into a plot of excess pore pressure variation with time expressed in days.

$$c_v = \frac{kM}{\gamma_w} \tag{4.7}$$

4. Method

$$T = \frac{c_v t}{r_0^2} \tag{4.8}$$

Where $c_v = \text{Coefficient of consolidation}$ $r_0 = \text{Radius of pile}$ t = Time

4.3 Numerical modeling

For the numerical analysis in this work the software Plaxis 2D, version 2201 was used. This section describes how the numerical model was constructed and run. The model was kept simple (a unified clay layer was assumed and no retaining structures were taken into account) throughout the analysis to aid comparison to analytical results and add complexity successively. Two different material models were used to investigate the impact of the modelled soil response; Mohr-Coulomb (M-C), and Modified Cam Clay (MCC).

The methodology for the numerical modeling was structured as below:

- 1. A simple "pile model" without the excavation was created, where the excess pore pressure due to pile installation were validated against Randolph (2003, 1979).
- 2. A simple unloading model was created without the pile installation, where the consolidation of excess pore pressure after excavation were validate against Terzaghis solution for 1-dimensional consolidation.
- 3. The two models were merged into one model with the construction sequence and timeline for Brf. Sydney being used.
- 4. The construction order was reversed, the resulting heave and pore pressure evolution were compared to the original order of construction.
- 5. A parametric study was conducted where the permeability and stiffness were varied.

4.3.1 Geometry and boundary conditions

The main interest when conducting the numerical modeling were the pore pressure evolution. An axisymmetrical model was created, to idealise and not account for the supporting structures when conducting the analysis. Two models with different geometry, one to simulate the pile installation and the other the excavation order, were used.

To verify if the pile installation response in the numerical model equates to the theory of Randolph (see section 2.6) a simple pile installation model was created. The 57 meter pile was simulated as a cavity expansion, with an exception of the first 15 meter where the soil had been removed by pre-augering. The pile installation

was simulated using a 100% volumetric expansion in the cluster corresponding to the pile, as the piles in reality are rectangular the equivalent radius of the pile was calculated using; $r_{pl} = b/\sqrt{\pi}$, where b is the width of the square pile. This was based on a geometrical relationship assuming an equal cross-sectional area between the two shapes. With b = 0.27 m (see subsection 3.3.2), r_{pl} became equal to 0.21 m The right boundary of the model was decided to be 30 meters from the pile centre, as according to Randolph and Wroth (1979) the pore pressure is unchanged at this distance. This originates from the boundary condition which is that $u_e \rightarrow 0$ as $r \to \infty$ for $t \ge 0$ (Randolph and Wroth, 1979). This is simplified by introducing a radius r^* , beyond which the excess pore pressures always will be negligibly small, and can be ignored for radii beyond r^* (i.e. $u_e = 0$ for $r > r^*$). Randolph and Wroth (1979) states that r^* can be expected to be within the interval $5 - 10r_{pl}$, where the larger end of the interval was chosen as the boundary for this analysis. Mentioned in chapter 2, cavity expansion is a common method to analyse pore pressure build-up during piling. This method is based on expanding a cylindrical cavity in a elastoplastic material. The pile, modeled as a cylinder thus becomes a circular type pile. This keeps the numerical model consistent with the theory, making comparisons of results more applicable.

The excess pore pressure variation from the simple pile model was compared against the analytical results obtained through theory found in Randolph and Wroth (1979). Comparisons were also made to the radial variation of excess pore pressures at different times seen in Figures 2.3 and 2.4, though no direct comparisons could be made since the graphs in these figures only apply to soil with stiffness ratios $G/c_u = 50$ and 100, whereas the stiffness ratio for the model equals to 187.5. Nevertheless, a comparison of the general time-dependent response was still made to see whether the pile simulation in the numerical model deviates heavily from the time-dependent response found in the analytical solutions. The response of the Mohr-Coloumb as well as the Modified Cam Clay, were simulated in this simple pile model and compared against theory and each other.

The second model that was designed as a unit cell, representing the red circle shown in Figure 4.1. The unit cell had a radial distance of 6.5 meters, the radius equals the average distance of the closest surrounding piles. The location of the unit cell was chosen as it is located in a piling area and the piezometers are inside the radial distance. The geometry of the model can be seen in Figure 4.2, the depth of the model (y_{min}) was set to 100 meters, with open groundwater flow boundaries at the top and bottom as the clay rests on a layer of friction soil. For this model, only the excavation was first analysed to validate it against Terzaghis solution for one-dimensional consolidation. Thereafter, both the pile installation and excavation were simulated in the same model.

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Figure 4.2: Geometry of numerical model corresponding to unit cell in Figure 4.1 (not to scale).

Figure 4.1: Location of the simulated unit cell. (Modified technical drawing, K-15-1-0001 (Skanska Teknik, 2023).

The hydraulic and mechanical boundary conditions can be seen in Table 4.2, where the left hydraulic boundary was assumed to be closed and normally fixed to fulfill symmetry in both models. The right hydraulic boundary in the simple pile model was assumed to be open (width of 30 m), as according to Randolph (1979) the pore pressure should be unchanged at such a radial distance from the pile. However, for the second model, the right hydraulic boundary was assumed to be closed as it simulated a unit cell. (A closer right boundary could also simulate a more representative response in contrast to an open boundary, as the pile in reality is surrounded by additional piles). The vertical boundaries were set to be normally fixed to allow vertical displacements only. The top boundary was set to be fully free and the bottom layer was also assumed to be fully fixed.

Table 4.2: Boundary conditions of the unit cell, used in the numerical model.

Boundary Type	Left	Right	Top	Bottom
GW Flow	Closed	Open/Closed	Open	Open
Mechanical	Normally fixed	Normally fixed	Free	Fully fixed

4.3.2 Input

The parameter values used in the constitutive models are presented in this Section, displayed in Table 4.3. Parameters that are specific to certain material models are presented in subsequent sections. In Plaxis both the Mohr-Coulomb and Modified Cam Clay model can simulate increasing stiffness with depth, hence a uniform layer from -2 to -100 meters was created as the soil at Brf. Sydney has a uniform unit weight (γ) and friction angle (ϕ') from level -2. The permeability varies slightly over depth, therefore an average permeability calculated from the CRS-tests was chosen. Soil properties from undisturbed tests retrieved from the geotechnical investigations were used as input data. Furthermore, the initial void ratio e_{init} , was calculated using Equation 4.9 from Larsson (2008). The particle mass density of the soil ρ_s was assumed as 2.7 kg/m³.

$$e = w \frac{\rho_s}{\rho_w} \tag{4.9}$$

Where w = Moisture content $\rho_s = \text{Particle mass density of soil}$ $\rho_w = \text{Density of water}$

Parameter	Fill	Clay	Unit
Level	+2 to - 2	-2 to -100	m
γ_s/γ	20/18	16.5	$\rm kN/m^3$
k	1.7E-9	1E-9	m/s
v	0.2	0.2	-
e_{init}	1.8	1.8	-
ϕ'	36	30	0

Table 4.3: General input parameters used in both constitutive models.

A rigid slab allowing for seepage was created, meaning that no water pressure is exerted onto the slab. The weight(w) was calculated using Equation 4.10, where the concrete was assumed to have a unit weight of 25 kN/m^3 , and the thickness of the slab d_{real} to be equal to 0.5 meters. The anchors were made overly rigid to simulate a rigid and fixed slab, for the axisymmetrical model the out-of-plane center-to-center distance was chosen to be 1 radian. The Poisson's ratio was assumed to be 0.2.

$$w = (\gamma_{concrete} - \frac{1}{2}\gamma_{soil})d_{real}$$
(4.10)

4.3.2.1 Mohr-Coulomb model parameters

The specific parameters for the Mohr-Coulomb model are presented in Table 2.1. The oedometer modulus was calculated from the empirical formula presented in section 2.2.1 (i.e. $M = 500c_u$), as the oedometer modulus retrieved from the CRS test is considered too low. The increase in stiffness was calculated by assuming an average increase of shear strength throughout the soil depth.

 Table 4.4: Input parameters in M-C model for the clay layer.

Mohr-Coulomb			
E'_{ref}	4500	$\rm kN/m^2$	
G_{ref}	1875	$\mathrm{kN/m^2}$	
E_{oed}	5000	$\rm kN/m^2$	
E'_{inc}	648	$\rm kN/m^2/m$	
u'	0.2	-	

4.3.2.2 MCC model parameter

The types of parameters used in this constitutive model are shown in Table 2.2. κ and λ for each layer were initially set to the values seen in 3.1, but were then calibrated through simulation of CRS tests. As previously presented the soil was also made uniform with a clay layer from -2 to -100 meter. The calibration was conducted with the goal of resembling the CRS tests found in the geotechnical investigation report. Furthermore, M_{CSL} was set to 1.4 to get a corresponding K_0^{nc} approximately of 0.6, due to the fact that the MCC-model is isotropic which could lead to an overestimation of the critical state line in extension. Table 4.5 encompasses all relevant input parameters for the clay layer, linked to the MCC model, used in the analysis.

Table 4.5:	MCC	$\operatorname{stiffness}$	parameters	for	${\rm the}$	clay	layer.
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Modified Cam Clay		
λ	0.34	
κ	0.034	
OCR	1.3	
M_{CSL}	1.4	
u'	0.2	

4.3.3 Element level simulations

Element level simulations were performed for the MCC model, in which the swelling index κ and compression index λ were derived by comparing the generated graphs to the CRS lab data. In Figure 4.3, three different results can be observed, the measured data from the lab, and two soil test generated. One of the soil tests was generated with no initial effective stress, the other with an initial effective stress of -10 kPa in all directions. The inclination of the over-consolidated part of the curves

closely resembles each other. However, the inclination of the virgin compression curve seems to be overestimated, when λ was set to be ten times as large as κ . Values for λ which corresponded to an inclination closer matching the CRS results were simulated, to study the impact this had on the simulated excess pore pressures induced by piling, but no significant impact was observed.



Figure 4.3: Comparison of calculated CRS-tests and measured

4.3.4 Oedeometer modulus

The stiffness for the different material models were plotted against depth to asses if the stiffness increases in a similar way. Using Equations 2.23, 4.11 and 4.4, an oedometer modulus corresponding to the value of the simulated compression index could be obtained and compared with the simulated response.

$$G = K' \frac{3(1-\nu')}{2(1+\nu')} \tag{4.11}$$

In Figure 4.4 the stiffness trends for the Mohr-Coulomb model (M-C), Modified Cam Clay model (MCC), and the empirical formula $E_{oed} = 500c_u$ are presented. For MCC this is the stiffness calculated for the initial effective stresses prior to construction. Also, derived values of M_0 from the CRS tests were multiplied with 3 and 5 and inserted. The CRS values were plotted to further confirm that the stiffness ratio used in the models is representative, as can be seen in Figure 4.4 all the trends are within the range $3 - 5M_{0,CRS}$.

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Figure 4.4: Increase of stiffness versus depth

4.3.5 Modelling of construction sequence

The excavation process at Brf. Sydney was delayed due to documentation of archaeological findings in the ground, which resulted in the piling being postponed. Also, contrary to Brf. Sydney, traditionally for safety reasons, piling is conducted from the ground level before the soil is excavated. Therefore two different order of construction scenarios were assessed in addition to a simple pile model:

- 1. Simple pile model: Only simulating pile installation.
- 2. Case study: The timeline of the center (C) excavation in Figure 3.3, was followed by the pile installation 182 days after completion of the excavation, see Figure 3.4.
- 3. **Reverse, case study:** The timeline of the center(C) in Figure 3.3 was reversed. The pile installation was placed first and thereafter, after 30 days a subsequent excavation was simulated.

Table 4.6 shows the phases used for scenario 1. In Table 4.7 the construction phases set in scenarios 2 and 3 can be observed. An initial phase with a "K0 procedure" was also calculated, thereafter all the phases were set to Consolidation (Staged construction) except the last one. The first excavation was in reality executed over 28 days, however, 10 days were applied in the model as the model does not represent the entire site, just the area shown in Figure 4.1. The displacements were reset to zero when the area was excavated down to level -1.8 m in both cases. The global groundwater table was assumed to be at level +0.5m, however, for the final excavation step, the groundwater table was set to the excavation bottom level, down to level -17 m.
Pile model	
Pile installation	1 day
Consolidation	5 years

 Table 4.6: Construction phases for the simple pile model, scenario 1.

Table 4.7: Construction phases for scenarios 2 and 3 corresponding to Brf. Sydney and in reversed construction order.

Scenario 2: Case study		Scenario 3: Reverse, case stud	ły
Excavation to $+0.6$ m	10 days	Pile installation	1 day
Consolidation	150 days	Consolidation	30 days
Excavation to -2 m	51 days	Excavation to $+0.6m$	10 days
Consolidation	182 days	Consolidation	150 days
Pile installation	1 day	Excavation to -2 m	51 days
Consolidation	30 days	Consolidation $(t_{exc.toslab})$	30 days
Slab installation	1 day	Slab installation	1 day
Consolidation	7 days	Consolidation	7 days
Consolidation	P-stop, 1 kN/m^2	Consolidation	P-stop, 1 kN/m^2

4.3.6 Parametric study

A parametric study was conducted to generalise the results and further study the impact on the effective heave pressure when varying the permeability and stiffness of the soil. The stiffness and permeability were chosen as they are two parameters that theoretically have large effects on the response of the soil, in terms of consolidation and dissipation. The parameters are both used when calculating the coefficient of consolidation (c_v) , therefore also included in the formula for normalised time (T_v) . Another reason as mentioned in section 2.2.1 is that the in-stitu stiffness can be difficult to determine as CRS tests usually underestimate the initial compression modulus. Different time steps between a finished excavation and installation of the slab were also used, as this is something that could vary from project to project. Graphs were created with generalised axes, normalised time T_v on the x-axis, and effective heave pressure ratio on the y-axis. In Table 4.8 the varied parameters can be seen, where the compression modulus M_0 corresponds to the average stiffness of the clay layer, and the permeability is assumed to be constant throughout the soil depth. A solution to Terzaghis one-dimensional consolidation theory proposed by Verruijt and Merwehoofd (1994) was used as a reference line in the graphs. Inspiration for the parametric study comes from Tornborg et al. (2024), especially for the design of the normalised graphs.

Table 4.8: Varied parameter values for the parametric study.

Parameters	Varied values
$t_{exc.toslab}$ [days]	$1,\ 10,\ 30,\ 90,\ 365,\ 1825,\ 3650$
$k \mathrm{[m/s]}$	$10^{-10}, 10^{-9}, 10^{-8}$
M_0 [MPa]	36, 40, 50, 60

The parametric study was divided into two parts, the first part was conducted using the M-C parameters presented in Table 4.4, and the scenario 2 construction sequence shown in Table 4.7. The second part of the parametric study was conducted with a simplified construction order shown in Table 4.9, the stiffness (E_{oed}) of the soil was assumed constant, E'_{inc} was assumed to be 0. This was done to simulate the average stiffness of the soil, with no stiffness increase with depth. In both parts, first, only the excavation was simulated, and thereafter the pile installation was added. This was done to see what impact the pile installation had on the effective heave pressure.

Table 4.9: Scenario 4: Parametric stud	dy sequence
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Scenario 4: Parametric study	
Pile installation	1 day
Excavation to -1.8 m	$1 \mathrm{day}$
$t_{exc.toslab}$	see Table 4.8
Slab installation	1 day
Consolidation	P-stop, 1 kN/m^2

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5

Result

This chapter presents the results obtained from the monitoring data and the analytical calculations. The computed results from the conducted numerical analyses are also presented, and in some parts compared to analytical results and the monitoring data.

5.1 Pore pressure data, Brf. Sydney.

In this section, the pore pressure data retrieved from the piezometers at Brf. Sydney will be presented. The data for the excavation and piling will be presented separately and then compared to each other.

5.1.1 Pore pressure during excavation

In Figure 5.1 the excess pore pressure during the excavation is presented, along with the excavation timeline where the colored horizontal lines correspond to the zones in Figure 3.3 and dates. The installation dates of the piezometers are presented in Table 5.1, and the first excavation stage started March 3rd 2024. As shown in Figure 5.1, the monitoring data at all depths indicates that a stationary pore pressure level had not been reached at the start of the excavation process. It is therefore difficult to observe if there was a decrease in pore pressure from the static level, during excavation. However, one observation is that during the excavation of the center zone, the pore pressure drops at a depth of 5m, generating negative excess pore pressure at the surface. One deviation seen in Figure 5.1 is the increase and decrease of pore pressure between May and September, attributed to the data for depth 20m, this trend cannot be seen at any other depth. Another deviation, attributed to the data from 40 m depth, is the almost linear increase occurring from October and forward.

Piezometer	Installation dates
$5\mathrm{m}$	23/2 - 2023
10m	23/2 - 2023
15m	23/2 - 2023
20m	24/2 - 2023
40m	28/2 - 2023

Table 5.1:	Dates	of	installation	of	piezometers.
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Figure 5.1: Excess pore pressure development during excavation, field monitoring data. See Figure 3.3 for the location of excavation areas within the site.

5.1.2 Analytical calculation of excess pore pressure due to excavation

The results from the analytical calculation of the excess pore pressures generated by unloading are shown in Figure 5.2. There are some factors that the analytical calculations do not account for, mainly the effect of the surroundings of Brf. Sydney and the time-dependent consolidation of the pore pressures. The analytical results rather show the potential negative excess pore pressure each excavation phase generates at the different depths studied. Although the differences between the analytical results and the measurements are large (mainly due to stationary pore pressure not reached after installation of the piezometers), a few similarities are worth mentioning. The negative excess pore pressure decreases with depth, this appears to be largely consistent between the analytical results and the measurements. Additionally, during the excavation of the center part, both the analytical results and the monitoring data show a decrease in pore pressure, however, the analytical result shows a larger difference. To summarise, the trends show similar decreases during excavation, but due to the excavation occurring in stages, large differences in pore pressure are not noticeable.



Figure 5.2: Analytical calculations of excess pore pressure results, compared to monitoring data. (A) denotes analytically calculated excess pore pressures (see section 4.2).

5.1.3 Pore pressure during piling

The excess pore pressure measured during piling is shown in Figure 5.3. The effects of pile driving are noticeable in the plot, especially in the spikes presented at certain depths and times in the data. The first major spike appeared on 29/1 - 2024, which is when the piles located just left of the piezometers, as seen in Figure 5.4, was installed. The second, slightly larger spike appears at the same time (27/2 - 2024) as the installation of the piles located in the center of the simulated unit cell. None of the piezometers are in such proximity to a pile that they will experience the pore pressures associated with the plastic zone, therefore none of the high excess pore pressures seen in the analytical calculations (see section 5.2) can be observed in the measured data. Furthermore, due to the pre-augering of the first 15 m of the piles, no spikes or peaks are observed in the data from the piezometers located at 5, 10, and 15-meter depths.



Figure 5.3: Excess pore pressure development during pile installation, data from Brf. Sydney.



Figure 5.4: Installation dates of piles in close proximity to the piezometers.

5.2 Piling response

In this part the results from the simple pile model generated in Plaxis 2D (version 2022.01) is compared to analytical results obtained through the method of Randolph and Wroth (1979). These include both excess pore pressures due to pile driving, and time dependent consolidation. The piling response in the numerical analysis has been simulated using both Mohr-Coulomb and Modified Cam Clay constitutive models, both of which will be shown in the results. In summary, it can be observed, that the response generated by the simple pile model, is largely consistent with theory regarding excess pore pressure caused by piling and subsequent dissipation. The choice of constitutive model mainly impacts the magnitude of the initial excess pore pressures, when comparing results gathered by the constitutive models. This might be a result of the stress path reaching the critical state line in the MCC model, which has the possibility to generate large shear stresses (see section 2.7.3.4).

5.2.1 Plastic zone

The plastic zone was analytically calculated using Equation 4.3, which resulted in $r_{pl} = 2.87$ m. Examining the plastic points generated in the Mohr-Coulomb model in the numerical model during the pile installation phase, shows that the model generates a similar plastic zone as compared to the analytical method. All nodes spanning from the left boundary to a radial distance of 2.6 m are classed as "failure points" indicating that the M-C model generates a plastic zone equivalent to $r_{pl} = 2.6$ m.

Examining the same type of output for the MCC model shows a zone of "cap points", that spans from the left boundary to a radial distance of 2.25 m. This means that the MCC model generates a zone of where the stress state have reached the yield surface.

5.2.2 Initial excess pore pressure distribution

Figure 5.5 displays the initial radial variation of the excess pore pressure at different depths. From these results, there is a clear indication that initial excess pore pressures increases with depth across all analyses, which is logical considering that the undrained shear strength c_u increases with depth. Due to the constant stiffness ratio G/c_u with depth, the plastic zone generated by Randolph's method (1979) is equal throughout the depth. The numerical results generated by the Mohr-Coulomb model, portrayed by the dashed lines, shows a response similar to the analytical results. It is noteworthy that at 18 m depth, the excess pore pressure is overestimated compared to the analytical results, whereas it's slightly underestimated at larger depths. But, overall they roughly generate a similar response, especially with increasing radial distance from the pile face. The pore pressures generated by the Modified Cam Clay model deviates greatly from the other results, particularly at the pile face. This seems to be a fallout of using this model. However, at approximately 2 meter from pile face the difference in pore pressure between the models start to diminish.



Figure 5.5: Calculated initial radial variation of excess pore pressures.

5.2.3 Pore pressure variation at pile face with time

Figure 5.6 shows how the excess pore pressure at the pile face varies with time, at different depths. One thing that needs to be considered for these results, is that the time in the numerical analysis starts from 1 day, whereas the analytical results start from 0 days. To adjust for this, 1 day has been added to the analytical results, making them easier to plot alongside the numerical results. The analytical results also have significantly higher resolution of results at the start of the analysis, particularly within the first 10 days. The analytically calculated excess pore pressures dissipate rapidly during the first 10 days, while the numerical dissipation is more gradual. Within 10 - 100 days, the differences between the different results clearly diminish. The time-dependent response at the pile face of both the numerical material models is comparable to the analytical response, especially when analysing larger time frames (i.e. t > 10 days).



Figure 5.6: Variation of excess pore pressures at pile face with time, for different depths.

5.2.4 Variation of radial excess pore pressure distribution with time.

Figure 5.7 and 5.8 displays the variation of radial excess pore pressures with time, for the two material models used in the numerical analysis. The axes have been normalised in the plots, to make the results more comparable to the graphs found in Randolph and Wroth (1979) and Randolph (2003). The values of time in days, corresponding to each time factor T, are displayed in Table 5.2. As previously mentioned, the stiffness ratio that applies for the soil conditions at Brf. Sydney, also modelled in the numerical model, is $G/c_u = 187.5$, which is larger than the stiffness ratio of the soil conditions seen in Randolphs results $(G/c_u = 187.5 \text{ in})$ Randolph and Wroth, 1979, $G/c_u = 100$ in Randolph, 2003). The results show that both M-C and MCC mobilise a similar normalised timed response as the theoretical response seen in Figures 2.3 and 2.4. As seen in Figure 2.2, a larger stiffness ratio is associated with larger excess pore pressures at all time factors. This correlation can be observed in the result from the numerical model, where similar time factors correspond to larger pore pressures. The large pressures generated by the Modified Cam Clay model (compared to M-C) are noticeable in these results as well. These larger pressures dissipate quicker than the Mohr-Coulomb model, leading to a mostly similar response over time.

Table 5.2: Time	(in days)	corresponding to t	the time factors displayed in the re	sults.
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Time factor T	Time in days
0	0
6	1
22	4
50	9
274	49



Figure 5.7: Variation of excess pore pressures with time, using Mohr-Coulomb material model



Figure 5.8: Variation of excess pore pressures with time, using Modified Cam clay material model.

5.3 Excavation and pile installation in combination, with a construction time corresponding to Brf. Sydney

In this section the computed pore pressure during construction (excavating and piling) of the foundation, as well as the effective heave pressure and displacements under the slab are presented. The analyses were conducted using the unit cell presented in subsection 4.3.1. Comparisons are made between the two constitutive models used for the numerical analysis, the different sequences of construction, and the monitored pore pressure data. One thing to bear in mind is that all the excavation stages were not included in the numerical model, only the excavation done at the center zone, as this is where the piezometers are placed. Also, only one of the nearby pile installations is simulated in the numerical model.

5.3.1 Effective heave pressure, with a construction time corresponding to Brf. Sydney

In Figure 5.9 the effective heave pressure EHP at the center of the slab in the unit cell, versus normalised time is presented. The effective vertical stress $\sigma'_{n,center}$ was computed with the numerical model using the constitutive model Mohr-Coulomb, the highest generated stress on the slab until fully consolidated was used. As explained in subsection 4.3.2 there is no water pressure on the slab (this is an idealisation used in this study), hence the EHP is normalised against σ'_0 . The reverse construction sequence of Brf. Sydney was used (see scenario 3 in Table 4.7) when computing the effective vertical stress. The blue markers in the figure represent the EHP generated when the construction only consists of excavation/unloading (scenario 3, without the pile installation), the graph shows that the consolidation response of the unloading model is similar to the one-dimensional consolidation theory by Terzaghi. However, the model only generated a heave pressure equal to 80%of the relieved load. The grey markers represent the reversed case (see Table 4.7), i.e. first pile driving, thereafter excavating. For the reversed case (Pile+Unloading) the heave pressure decreases with 20-25% compared to the case of only unloading. However, for larger values of T_v both cases converge towards the Terzhagi consolidation line.



Figure 5.9: Normalised effective heave pressure at center of slab, versus normalised time (inspired by Tornborg et al., 2024)

5.3.2 Excess pore pressure evolution, with a construction time corresponding to Brf. Sydney

Figure 5.10 shows how the computed excess pore pressures varies at different depths, 3 meters from the pile (which is based on the distance between piezometers and nearest pile), with time when considering the case study time schedule, i.e. excavation followed by piling. The first excavation phase takes 10 days (see subsection 4.3.5, where the maximum negative excess pore pressure reached is approximately -25 kPa uniformly over the clay deposit, due to the unit cell geometry considered in this analysis. Afterward, a consolidation period over 150 days occurs. As the left and right boundaries are closed the model only dissipates excess pore pressure upwards and downwards. Therefore, the soil closest to the surface consolidates faster than the soil in the middle of the deposit, as can be observed in Figure 5.10. The next excavation simulated over 51 days generates the highest excess pore pressure in the middle of the clay deposit. The following consolidation period (182 days) shows a similarity to the first consolidation period, in that the soil layers closest to the surface consolidates faster. The pile installation causes a reduction of the negative excess pore pressure at the elevations -18 m and -38 m, whereas, the pore pressure is unaffected in the top soil layer, since a pre-augering of down to -15 m is simulated. After the pile installation the top layers continues to consolidate, while the lower levels experience an initial decrease, followed by an increase in negative excess pore pressure observed at elevations -18 and -38 m until the slab is cast. When the slab is cast it takes slightly more than 19 years for the excess pore pressures to consolidate completely.

Figure 5.10 also displays results for both constitutive models used in the numerical analysis. The largest negative excess pore pressure is reached after the second excavation phase for all simulated elevations and both material models. Mohr-Coulomb (M-C) and Modified Cam Clay (MCC) broadly produce similar results up until the

slab is installed, after which the models starts to differ in the results. M-C generates a small but instant reduction in negative excess pore pressures as a response to the installation of the slab. Conversely, MCC generates an increase of negative excess pore pressures, but this response is not as instant as the increase observed in the M-C results. This response levels of after approximately 50 days after which the excess pore pressures starts to increase similarly to M-C. Overall the models produces similar results and after 1000 days the differences between the models starts to diminish. Henceforth, the reverse construction order analysis was done using Mohr-Coulomb exclusively, for simplicity and efficiency with regards to computing the results.



Figure b)

Figure 5.10: Variation of computed excess pore pressures at 3 meters from the pile, construction order corresponding to Brf. Sydney, see table 4.7, i.e. excavation before piling. a) Linear time axis. b) Logarithmic time axis.

5.3.3 Excess pore pressure evolution, with a reversed construction sequence

Figure 5.11 displays how the excess pore pressure varies at different depths, when piling is simulated prior to excavation using the Mohr-Coulomb model. What sets these results apart is that the original case (excavation before piling) generates greater negative excess pore pressures than the reversed case. Additionally, the excess pore pressures during the first phases of the calculations are positive as a result of the pile installation, with these pressures then being lowered to negative excess pore pressures during the excavation phases although of lower magnitude than in the previous analysis. The largest negative excess pore pressure is generated at -18 m depth in this analysis, as opposed to -38 m in the prior analysis with the actual construction sequence. Furthermore, the pore pressure evolution at -3 m differs from the other simulated depths between the excavation phases. At -3 m the excess pore pressures generated by the pile installation, dissipate quicker than the other levels. This is likely due to -3 m being far enough from the pile installation, and its close proximity to the surface (which has a draining effect), which causes these pore pressures to consolidate quickly. This can be seen in Figure 5.12, which shows the excess pore pressure evolution in the numerical model during stages 1-4. The numerical model is fully consolidated just after 7500 days.



Figure b)

Figure 5.11: Variation of computed excess pore pressures at 3 meters from the pile, with the reverse construction order, i.e. piling before excavation. a) Linear time axis. b) Logarithmic time axis.



Figure 5.12: Excess pore pressures throughout the model, during stages 1 to 4, for the reversed construction order (See Table 4.7). In Plaxis the sign convention is reversed, thus negative values correspond to positive excess pore pressures.

5.3.4 Vertical displacement beneath the slab.

Figure 5.13 shows the vertical displacement 1 meter below the excavation bottom over time. The generated displacement when using the same sequence of construction as Brf. sydney (unloading \rightarrow Pile installation), using M-C and MCC is shown in Figure 5.13. The vertical displacements for the reverse construction order using M-C is displayed in Figure 5.14. The original sequence was simulated with both the constitutive models, the reversed order was only calculated using M-C. Observed in the Figure 5.13 and Figure 5.14, the original sequence generates the largest displacement. Of the two material models (M-C and MCC) MCC gives the largest deformation. The computed deformation of the reversed construction sequence is significantly lower than the order used at Brf. Sydney.



Figure 5.13: Vertical displacement below the excavation bottom for the Brf. Sydney case, see Table 4.7.



Figure 5.14: Vertical displacement below the excavation bottom for the reversed case, see Table 4.7.

5.3.5 Comparison of computed, and measured values for the pore pressure

In Figure 5.15 the measured pore pressure from Brf. Sydney and the computed pore pressure from the numerical model is presented. As mentioned in the introduction (Section 5.3) of this section, one thing to bear in mind is that all the excavation stages were not included in the numerical model and that only one of the nearby pile installations is simulated. It can be observed that the measured and computed pore pressure at level -3 meters share similarities, a small decrease in pore pressure from the first excavation and then a more immediate decrease for the center excavation. The measured trend for level -3 meter fluctuates considerably, which may be due to the fact that it is only 1 meter below the excavation bottom, heavy construction equipment driving over the piezometers could affect the result. The trends for level -8 meters share similarities, but the excavation of the center zone does not seem to have a significant impact on the measured pore pressure contrary to the computed.

At level -13 meters the trend differs considerably, the trend does not start at the same static pore pressure, however, the decrease in pore pressure from the first excavation is comparable. As the measured trend at level -8 meters, the trend at level -13 meters is not affected by the excavation at the center zone. The trend at level -18 meters starts with a decrease similar to the computed pore pressure, but not at the same static level. The measured trend also has an inexplicable rise in pore pressure in June, 2023, which stabilises, and then returns to what probably is its static pore pressure level in late August. The measured trend at level -18 meters does not react to the excavation of the center zone, however, it has a pore pressure increase when the pile is installed in February 2024. At level -38 meter the measured pore pressure does not seem to reach its static pore pressure, in October something happens with the piezometer, and the pore pressure increases linearly. The only thing that could be used for comparison to the computed pore pressure is the increase of pore pressure at the time of pile installation. The computed pore pressure at levels -18 and -38m do not have a noticeable consolidation between the excavation phases, due to the thickness of the layer.



Figure 5.15: Pore pressure over time, measured at Brf. Sydney and computed from the numerical model

5.3.6 Parametric study

A parametric study using the M-C model was conducted to see how the permeability (hydraulic conductivity) and stiffness of the soil impact the effective heave pressure (EHP). The parametric study considers two cases, one with only unloading and one with piling followed by unloading. The varied parameters can be seen in Table 4.8. The time from excavation completion to slab activation, $(t_{exc.toslab})$ was used for all permeabilities. The results can be compared to Figure 5.9 where a permeability specific for conditions at Brf. Sydney was used.

In Figure 5.16 the impact of varying the average permeability (see subsection 4.3.6) of the soil is presented. In the figure it can be observed that the permeability has a large influence on the consolidation time. A lower permeability gives a longer consolidation time, whereas a higher permeability gives a shorter consolidation time. The red markers represent the lower permeability, and as they have not approached zero it means that the soil has not consolidated completely, even after the largest simulated $t_{exc.toslab}$, a high EHP is still present on the slab.

Similar to Figure 5.9 the pile installation reduces the heave pressure generated on the fixed slab. Observed in Figure 5.16 the heave pressure on the slab is reduced by 20% when simulating both the pile installation and the excavation.



Figure 5.16: Impact of permeability on EHP (P+U denoted piling before excavation)

Figure 5.17 shows the impact on effective heave pressure that an increase in stiffness has. It can be observed when adding the pile installation (P+U), that a larger soil stiffness is associated with a decrease in EHP. When only unloading the soil (U), no such behavior is observed. Increasing stiffness for the case of unloading, only equates to a shorter consolidation time.



Figure 5.17: Impact of stiffness on EHP (P+U denotes piling+excavation)

6

Discussion

In this chapter the results and methodology will be discussed.

6.1 Measured pore pressure data

The construction of the foundation of Brf. Sydney was less than ideal, primarily being slowed and prolonged by the required preservation and documentation of the archaeology in the ground. The archeology also was the reason for the unconventional (in Gothenburg) construction sequence of excavating before piling. Another outcome was that the excavation was open and exposed for a longer period allowing for negative excess pore pressures to dissipate more than in a typical project. This outcome brought difficulties in trying to assess whether the piling could counteract the excavation in terms of excess pore pressures. If the excavation could have been more efficient, mainly by having a much shorter time between excavating and piling, perhaps the counteracting effect between the unloading and piling would have been more substantial. As was the case, the negative excess pore pressures were allowed to dissipate for 332 days (combined for the two excavation phases) before piling was commenced, which means that part of the negative excess pore pressure that could have been reduced by piling, had already dissipated. In addition, the second excavation phase goes on for quite a long time when compared to the first, 51 days as opposed to 10 days respectively. Further studies including field monitoring targeting this particular topic could do a more comprehensive analysis of the counteraction with regard to excess pore pressures, caused by excavating and piling activities.

The deviations and overall irregularity present in the measured pore pressure data have made them difficult to analyse and draw conclusions from. One source for this, could be that the piezometers were not allowed to properly stabilise enough, before the excavation at Brf. Sydney started. The action of driving the piezometers into the ground causes an increase in excess pore pressures, similar to piling but at a smaller scael. Usually this excess pore pressure stabilises after some time, and should be accounted for when planning the field-measurement program. In this case, the excavations started 3- 10 days after the piezometers were installed. This made it difficult to determine whether the observed pore pressure decrease were a result of the piezometers trying to reach the static level and/or was caused by the excavation.

With several construction projects taking place around Brf. Sydney at the time of writing, it is not unlikely that the surroundings could have affected the excess pore

pressures in the studied area. As mentioned in chapter 3, Brf. Sydney is one among several constructions taking place in the area of Masthuggskajen. These neighbouring constructions, both finished and unfinished, will presumably have some kind of impact on the pore pressures in the ground beneath Brf. Sydney. Due to how the stresses in the soil caused by a load distribute over a larger width with increasing depth, the effects of surrounding constructions might have an impact on the pore pressures at larger depths. Displacements caused by piling in neighbouring constructions might also have an effect on the pore pressures beneath Brf. Sydney.

When comparing the measured pore pressure to the computed results in Figure 5.15, they showed mainly differences and some similarities. The monitored pore pressures below level -8 meter (10 m depth), are unaffected by the excavation of the center zone. The first excavation phase shows a decrease in pore pressure for both the measured and computed results, however, the decrease associated with the measured pore pressure could also be due to their stabilisation towards static level. The uncertainty of the decrease is based upon the fact that the excavation started promptly after the piezometers were installed and that they potentially did not stabilise, but also because the excavation of the center zone was more substantial and should show a greater response than the first excavation phase.

The measured pore pressure data were compared to the results of the calculations using Boussinesq's method. The comparisons showed that for Boussinesq's results, the unloading has a larger impact on the excess pore pressures closer to the surface, due to how the load diffuses with depth. This behaviour is not apparent in the results from the numerical model. However, due to modelling an idealised 1D unit cell. The unloading in the Boussinesq result are instantaneous, whereas the excavation in Plaxis goes on for 51 days. This means that the negative excess pore pressures generated by the unloading, dissipates as the excavation goes on. Furthermore, both the left and right hydraulic boundary is closed, meaning that the excess pore pressures are only allowed to drain in the vertical direction. This likely causes the generated negative excess pore pressures to redistribute throughout the depth, which results in negative excess pore pressures concentrating toward the halfway depth of modelled unit cell.

6.2 Piling

There are some factors regarding the piling that were not accounted for, which could effect the result in the numerical analysis. The actual pile driving process and rate is not considered, rather the pile instantaneously appears in the ground in the simulations. Allowing the cavity to expand over a short time might yield a slightly different result, it could possibly generate a lower immediate response as the pile is gradually expanding. Furthermore, this study disregards any vertical load being exerted on the pile and any resistance around the shaft of the pile, potentially affecting the displacements close to the pile and the heave. The resistance between the pile and soil could prevent some heave, as the piles in the ground acts as reinforcement of the soil (Tornborg, 2017). If this was modelled it could possibly lead to a decrease

6. Discussion

in vertical displacements.

The pre-augering of the first 15 m of the pile is represented by simply not expanding this part of the soil/pile in the numerical model. Neither is the soil removed or replaced with another material, (removing the soil without adding another material caused the soil to collapse and fail in the model). In reality, pre-augering would not totally diminish the displacement of the soil, as in practice it is difficult to remove the exact same amount of soil as the volume of the pile. The displacement would consequently lead to a change in pore pressure, however not as large as where it is not pre-augered. In Figure 5.3 it can be observed that the pore pressure is seemingly unaffected at depths of 10m and 15m, where it is pre-augered, whereas the nearby pile installation has an apparent effect on the depths of 20m and 40m. One thing to bear in mind is that the piezometers are placed 3-6 meters from the nearby piles, however, the majority of the piles at the site had no significant effect on the measured pore pressure. This indicates that the immediate change in pore pressure is quite isolated to the plastic zone around the pile. Since no mass is displaced at 5-, 10- and 15 meters depth, the magnitude of the negative excess pore pressures is lower at these depths.

The reason of the seemingly large excess pore pressures generated during piling when using Modified Cam Clay model, was hard to isolate. As previously stated, attempts were made to vary the compression index λ but this had no apparent effect. Chen and Abousleiman (2012) method appears to yield excess pore pressures closer to the Mohr-Coulomb and Randolph results, using a semi-analytical. It is speculated that these high pressures stem from the fact that the stress path of the soil close to the pile, reaches the yield surface in the MCC model and critical state. The soil by the pile also perhaps want to compress more than it's allowed to do. Finally, the relationship between K_{nc}^0 and M in the Modified Cam Clay model in Plaxis (see Equation 2.34), might have lead to a incorrectly estimated shear strength. This might have yielded overestimated excess pore pressures, due to the proportionality between undrained shear strength and excess pore pressures observed in literature (Randolph and Wroth, 1979, Randolph et al., 1979, Randolph, 2003).

One interesting result of the parameter study is the effect soil stiffness has on EHP, when simulating both piling and excavating. That is, a higher soil stiffness is associated with less EHP, which is not observed when only simulating excavation. Considering how M_0 is related to G, and how G influences the generation and dissipation of excess pore pressures caused by piling, (see section 2.5 and 4.2.2.1) an increase in soil stiffness could correlate to less EHP in theory when piling.

6.3 Unloading

How the excess pore pressures dissipate throughout the depth during consolidation is comparable to Terzaghis theory. Since the model restricts flow in the horizontal boundaries, meaning that the only drainage paths are the top and bottom vertical boundary, thus, the model drains as Terzaghis solution with double-sided drainage. This means that the pore pressures close to the halfway depth of the model will become larger than the pressures close to the boundaries.

The results from the unloading model (see Figure 5.9) yields a maximum normalised EHP equal to 0.78. The reason why this is not equal to 1 for the case of only unloading, is likely due to the unloading model simulating the Brf. Sydney construction sequence prior to varying $t_{exc.toslab}$. This includes the prolonged excavation procedure into the model (see Table 4.7), meaning that the excavation is allowed to consolidate (for 211 days), before it's fully completed. The effect of this prolonged excavation time becomes clear when comparing the results of the unloading model, to the results of the parametric study with varying permeability (see Figure 5.16), where an idealised excavation sequence of 1 day (see Table 4.9) is simulated. This yields a normalised EHP almost equal to one, due to the excavation not being allowed to consolidate before varying the time between excavation and slab installation.

The unloading model, as well as the models used in the parametric study, are all limited to one excavation depth of 4 m, and one uniform clay layer with a thickness of 100 m. Varying these parameters will impact the results, since they determine the length of the drainage path, and is included in the normalised time T_v . Varying these parameters as part of a parametric study on this topic, could help with understanding the how the excavation depth and drainage length impact the result.

6.4 Constitutive models

The constitutive models used in the numerical model does not account for creep behavior. Using models that account for creep such as Soft Soil Creep or Creep-SCLAY1S could have yielded a different result. However, these models require model parameters which adds complexity to the analysis. Deriving values for these parameters is not always an easy task and can be time-consuming, and could increase the risk of errors in the model, if not done properly..

There were uncertainties in deriving the stiffness parameter of the soil. Whether to use the empirical formula $M_0 = 250c_u$ or $M_0 = 500c_u$ was discussed, and the choice of $M_0 = 500c_u$ was primarily based on the fact that the OCR at Brf. Sydney is closer to 1, whereas $M_0 = 250c_u$ is applicable for soils with an OCR of 3 (see section 2.2.1). The stiffness in the constitutive models were plotted against depth, where it was compared to the multiplied compression modulus derived from the CRS tests. This further showed that assuming $M_0 = 500c_u$ was representative for the soil at Brf. Sydney. But as the in situstiffness is difficult to derive, the stiffness was varied in the parametric study to see the impact on the EHP. This was done to generalise the study, for it to be applicable to more cases than for Brf. Sydney.

The groundwater table was set to excavation bottom for the final excavation step. The groundwater table was therefore assumed to be at excavation bottom for the soil cluster between level -2 m and -17 meter. In the soil cluster below this level, the original groundwater table at +0.5 m was used. For further studies the groundwater

table could have be set to global level (+0.5) after the excavation step to see how this effects the effective heave pressure.

6. Discussion

7

Conclusions and recommendations

This thesis aimed to study the combined impact of pile driving and excavation have on the development and evolution of excess pore pressure, heave, and heave pressure. For the aim to be achieved pore pressure data from a specific construction project was collected, the monitoring data was compared to analytical, and numerical calculations. Furthermore, a parametric study was conducted to generalise the results and study the impact of varying chosen soil parameters. The main conclusions from this study are:

- The results indicate that positive excess pore pressures caused by piling have the potential to counteract the negative excess pore pressures generated by excavation, leading to a reduction of heave pressure on the slab.
- Furthermore, results also show that piling before or after excavating generates different amounts of vertical displacements. Piling before excavating seems to reduce vertical displacement. The vertical displacements when excavating after pile driving would be further reduced if the nailing effect of the pile elements were to be considered.
- Both excess pore pressure and heave caused by unloading and piling are complex problems to compute in themselves. Studying the combination of these is therefore undoubtedly complex as well. Idealisation such as a unit cell geometry was adopted with respect to the scope of this work.
- A majority of the measured pore pressure data from Brf. Sydney was deemed partly insufficient as unexplained irregularities in the data were observed for both the piezometers at elevations -18 and -38 meters. The cause of these irregularities has not been determined.
- The Mohr-Coulomb model proved to be efficient in modeling the pore pressure response during piling. In this analysis, the Modified Cam Clay model did not yield a similar response when compared to analytical solutions and the Mohr-Coulomb model, with regard to excess pore pressures.

Further studies could build upon the analysis conducted in this thesis, and include more factors to increase the complexity sequentially. Listed below, are recommendations for further studies regarding the combined impact that piling and excavation have in terms of pore pressure, heave, and heave pressure.

- Modelling the actual pile element in addition to expanding a cavity, could be useful to further study the effects piling might have on the heave pressure and excess pore pressure. This would mainly incorporate the effects of the interface between the pile and the soil, such as the reinforcing (soil nailing) effect after pile installation. Furthermore, whether there are any significant effects on excess pore pressures and heave, with a load being exerted on the pile could also be studied. This would, in combination with a soil model that accounts for creep (see final recommendation), enable to study the evolution of tension and/or compression loads in piles over time.
- Studying the combined effects of a group of piles with regard to excess pore pressures and heave might prove useful in assessing the heave pressure in practical construction cases. Determining if the magnitude of the excess pore pressures scales with the number of piles, and how the effect of the installation pattern affects excess pore pressure and heave, could help in developing a reliable analytical method to estimate the heave pressure on a slab. Randolph's theory on excess pore pressures due to pile driving could perhaps be incorporated into this type of study, to be modified and extrapolated to study the effects of a group of piles.
- Finally, conducting a numerical analysis similar to this one, but with a more sophisticated constitutive model, could refine the findings of this study. This would, for instance, incorporate creep effects into the model. The computed magnitude of such effects could also help with determining whether they need to be accounted for when studying this behavior in practice.

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Mätdata 5 m

Uppdragsnamn Uppdragsnum Mätpunkt 2024-03-11

Installationsdjup Installationsdatum 4 32543 10:34

Avläsningstidpunkt

Serienummer

1012,5 1000 9,81

Bilaga 2

Sida 1 av 49

Hydrostatiskt portryck 34,76

Minvärde 72,6 2,2 Maxvärde

Datum	Klockslag	Portryck okorrigerat	Lufttryck	Portryck	Excessive pore pressure	Temp (°C)
2024-03-10	12:08	11,88	10,33	15,4	-19,4	4
2024-03-10	0:08	11,83	10,33	14,9	-19,9	4
2024-03-09	12:08	11,82	10,33	14,8	-20,0	4
2024-03-09	0:08	11,9	10,33	15,6	-19,2	4
2024-03-08	12:08	11,93	10,33	15,9	-10,9	4
2024-03-08	12:08	11,95	10,33	10,1	-18,7	4
2024-03-07	0:08	11,90	10,33	16,4	-18.6	4
2024-03-06	12:08	11,88	10,33	15,4	-19,4	4
2024-03-06	0:08	11.88	10.33	15,4	-19.4	4
2024-03-05	12:08	11,96	10,33	16,2	-18,6	4
2024-03-05	0:08	11,88	10,33	15,4	-19,4	4
2024-03-04	12:08	11,82	10,33	14,8	-20,0	4
2024-03-04	0:08	11,76	10,33	14,2	-20,6	4
2024-03-03	12:08	11,77	10,33	14,3	-20,5	4
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2024-03-02	12:08	11,79	10,33	14,5	-20,3	4
2024-03-02	0:08	11,70	10,33	14,2	-20,6	4
2024-03-01	0.08	11,70	10,33	14,4	-20,4	4
2024-03-01	12:08	11,0	10,33	14,0	-20,2	4
2024-02-29	0:08	11.85	10.33	15.1	-19.7	4
2024-02-28	12:08	11,68	10,33	13,4	-21,4	4
2024-02-28	0:08	11,7	10,33	13,6	-21,2	4
2024-02-27	12:08	12,44	10,33	21,0	-13,8	4
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2024-02-25	0:08	11,52	10,33	11,0	-22,9	4
2024-02-24	0.08	11,53	10,33	11,9	-22,0	4
2024-02-24	12:08	11,33	10,33	11,9	-22,0	4
2024-02-23	0:08	11,35	10,33	10,1	-24.6	4
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2024-02-21	12:08	11,75	10,33	14,1	-20,7	4
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2024-02-19	0:08	11,75	10,33	14,1	-20,7	4
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2024-02-17	0:08	11,76	10,33	14,2	-20,6	4
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2024-02-15	12:08	11,82	10,33	14,8	-20,0	4
2024-02-15	0:08	11,75	10,33	14,1	-20,7	4
2024-02-14	12:08	11,72	10,33	13,8	-21,0	4
2024-02-14	0:08	11,7	10,33	13,6	-21,2	4
2024-02-13	12:08	11,79	10,33	14,5	-20,3	4
2024-02-13	12.08	11,04	10,33	13,0		4
2024-02-12	0:08	11,0	10,33	12,0	-22,1	4
2024-02-11	12:08	11.7	10,33	13.6	-21.2	4
2024-02-11	0:08	11,68	10,33	13,4	-21,4	4
2024-02-10	12:08	11,69	10,33	13,5	-21,3	4
2024-02-10	0:08	11,69	10,33	13,5	-21,3	4
2024-02-09	12:08	11,76	10,33	14,2	-20,6	4
2024-02-09	0:08	11,77	10,33	14,3	-20,5	4
2024-02-08	12:08	11,54	10,33	12,0	-22,7	4
2024-02-08	12:08	11,49	10,33	11,5	-23,2	4
2024-02-07	0.08	11,44	10,33	10.2	-23,7	4 4
2024-02-06	12:08	11.42	10.33	10.8	-23.9	4
2024-02-06	0:08	11,52	10,33	11,8	-22,9	4
2024-02-05	12:08	11,54	10,33	12,0	-22,7	4
2024-02-05	0:08	11,57	10,33	12,3	-22,4	4
2024-02-04	12:08	11,47	10,33	11,3	-23,4	4
2024-02-04	0:08	11,57	10,33	12,3	-22,4	4
2024-02-03	12:08	11,56	10,33	12,2	-22,5	4
2024-02-03	0:08	11,54	10,33	12,0	-22,7	4

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2024-02-02	12.08	11 72	10.33	13.8	-21.0	4
2024 02 02	0.00	14.04	10,00	10,0	21,0	
2024-02-02	0:08	11,64	10,33	15,0	- 19,8	4
2024-02-01	12:08	11,68	10,33	13,4	-21,4	4
2024-02-01	0:08	11,65	10,33	13,1	-21,6	4
2024-01-31	12.08	11.8	10.33	14.6	-20.2	4
2024 01 21	0:09	11.00	10,00	14.9	20,2	
2024-01-31	0.06	11,02	10,33	14,0	-20,0	4
2024-01-30	12:08	11,81	10,33	14,7	-20,1	4
2024-01-30	0:08	11.71	10.33	13.7	-21.1	4
2024-01-20	12.08	11.86	10.33	15.2	-19 6	1
2024-01-29	12.00	11,00	10,55	13,2	-19,0	4
2024-01-29	0:08	11,83	10,33	14,9	-19,9	4
2024-01-28	12:08	11,86	10,33	15,2	-19,6	4
2024-01-28	0.08	11.86	10 33	15.2	-19.6	4
2024 01 20	10.00	11,00	10,00	10,2	10,0	
2024-01-27	12:08	11,83	10,33	14,9	-19,9	4
2024-01-27	0:08	11,73	10,33	13,9	-20,9	4
2024-01-26	12:08	11.61	10.33	12.7	-22.0	4
2024 01 26	0.08	11.74	10.33	14.0	20.8	4
2024-01-20	0.00	11,74	10,55	14,0	-20,0	4
2024-01-25	12:08	11,74	10,33	14,0	-20,8	4
2024-01-25	0:08	11,6	10,33	12,6	-22,1	4
2024-01-24	12:08	11.52	10.33	11.8	-22.9	4
2024 01 24	0:09	11.50	10.22	12.5	,-	4
2024-01-24	0.00	11,59	10,55	12,5	=22,2	4
2024-01-23	12:08	11,76	10,33	14,2	-20,6	4
2024-01-23	0:08	11,61	10,33	12,7	-22,0	4
2024-01-22	12.08	11.56	10.33	12.2	-22.5	4
2024 01 22	0:00	11,00	10,00	14.6	20.2	
2024-01-22	0:08	11,8	10,33	14,6	-20,2	4
2024-01-21	12:08	11,85	10,33	15,1	<u>-19,7</u>	4
2024-01-21	0:08	11.78	10.33	14.4	-20.4	4
2024-01-20	12.08	11 0/	10.33	16.0	_18.8	4
2024-01-20	12.00	44.0	10,00	10,0	- 10,0	+
2024-01-20	0:08	11,6	10,33	12,6	-22,1	4
2024-01-19	12:08	11,76	10,33	14,2	-20,6	4
2024-01-19	0:08	11.71	10,33	13.7	-21.1	4
2024-01.19	12.09	11 61	10 22	10,7		
2024-01-10	12.00	11,01	10,33	12,7	-22,0	4
2024-01-18	0:08	11,36	10,33	10,2	-24,5	5
2024-01-17	12:08	11,37	10,33	10,3	-24,4	5
2024-01-17	0:08	11.62	10.33	12.8	-21.9	5
2024-01-16	12.08	11.82	10.33	14.8	-20.0	5
2024-01-10	12.00	11,02	10,00	14,0	-20,0	5
2024-01-16	0:08	11,73	10,33	13,9	-20,9	Э
2024-01-15	12:08	11,57	10,33	12,3	-22,4	5
2024-01-15	0:08	11,39	10,33	10,5	-24,2	5
2024-01-14	12.08	11.48	10.33	11.4	-23.3	5
2024-01-14	12.00	11,40	10,35	11,4	-20,0	5
2024-01-14	0:08	11,49	10,33	11,5	-23,2	5
2024-01-13	12:08	11,4	10,33	10,6	-24,1	5
2024-01-13	0:08	11.57	10.33	12.3	-22.4	5
2024 01 12	12.08	11.61	10.33	12.7	22.0	5
2024-01-12	12.00	11,01	10,55	12,7	-22,0	5
2024-01-12	0:08	11,65	10,33	13,1	-21,6	5
2024-01-11	12:08	11,83	10,33	14,9	-19,9	5
2024-01-11	0:08	11.76	10.33	14.2	-20.6	5
2024 01 10	12:00	10.0	10.22	10.6	15.0	5
2024-01-10	12.00	12,3	10,55	19,0	-13,2	5
2024-01-10	0:08	12,58	10,33	22,3	-12,4	5
2024-01-09	12:08	12,17	10,33	18,3	-16,5	5
2024-01-09	0:08	12.11	10.33	17.7	-17.1	5
2024 01 09	12:00	10.15	10.22	19.1	16.7	5
2024-01-00	12.00	12,10	10,33	10,1	-10,7	
2024-01-08	0:08	12,12	10,33	17,8	-17,0	5
2024-01-07	12:08	12,05	10,33	17,1	-17,7	5
2024-01-07	0:08	12	10.33	16.6	-18.2	5
2024-01.06	12:09	11.06	10.22	16.0	_19.6	5
2024-01-00	12.00	11,90	10,33	10,2	- 18,0	
2024-01-06	0:08	11,9	10,33	15,6	-19,2	5
2024-01-05	12:08	11,9	10,33	15,6	-19,2	5
2024-01-05	0:08	11.89	10,33	15.5	-19.3	5
2024-01-04	12.08	11.88	10 33	15 /	_10 /	5
2024-01-04	12.00	44.04	10,00	10,4	- 19,4	
2024-01-04	0:08	11,84	10,33	15,0	-19,8	5
2024-01-03	12:08	11,89	10,33	15,5	-19,3	5
2024-01-03	0:08	11.96	10.33	16.2	-18.6	5
2024-01-02	12.08	12	10 33	16.6	_18.2	5
2024-01-02	0.00	11.04	10,00	10,0	-10,2	
2024-01-02	0:08	11,94	10,33	16,0	-18,8	5
2024-01-01	12:08	11,94	10,33	16,0	-18,8	5
2024-01-01	0:08	11,95	10,33	16,1	-18,7	5
2023-12-31	12.08	11 94	10.33	16.0	-18.8	5
2022 12:01	0.00	11,04	10,00	10,0	10,0	5
2023-12-31	0.08	11,93	10,33	15,9	-18,9	
2023-12-30	12:08	11,86	10,33	15,2	-19,6	5
2023-12-30	0:08	11,84	10,33	15,0	-19,8	5
2023-12-29	12:08	11 83	10.33	14.9	-19.9	6
2022 42 20	0.00	11.00	10.00	45.0	10,0	0
2023-12-29	0:08	11,87	10,33	15,3	-19,5	6
2023-12-28	12:08	11,9	10,33	15,6	-19,2	6
2023-12-28	0:08	12	10,33	16,6	-18,2	6
2023-12-27	12:08	12.04	10,33	17.0	-17.8	6
2022 12 27	0.00	11.04	10.00	16.0	10 0	
2023-12-27	0.08	11,94	10,33	10,0	-18,8	0
2023-12-26	12:08	11,91	10,33	15,7	-19,1	6
2023-12-26	0:08	11,9	10,33	15,6	-19,2	6
2023-12-25	12:08	11.82	10.33	14.8	-20.0	6
2023 12 25	0.08	11 0	10 22	1/ 6	_20.2	<u>د</u>
		1 1.0	10,33	14,0	-20,2	0
2023-12-23						-
2023-12-24	0:08	11,9	10,33	15,6	-19,2	6
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2023-12-23	12.08	11.9	10.33	15.6	-19.2	6
2023 12 23	0:08	11.90	10.33	15.5	10,2	6
2023-12-23	0.00	11,09	10,55	15,5	-19,5	0
2023-12-22	12:08	11,92	10,33	15,8	-19,0	6
2023-12-22	0:08	11,8	10,33	14,6	-20,2	6
2023-12-21	12:08	11,94	10,33	16,0	-18,8	6
2023-12-21	0:08	12,12	10,33	17,8	-17,0	6
2023-12-20	12:08	12.17	10.33	18.3	-16.5	6
2023-12-20	0.08	12.2	10.33	18.6	-16.2	6
2020 12 20	40.00	12,2	10,00	10,0	10,2	0
2023-12-19	12:08	12,27	10,33	19,3	-15,5	0
2023-12-19	0:08	12,3	10,33	19,6	-15,2	6
2023-12-18	12:08	12,34	10,33	20,0	-14,8	6
2023-12-18	0:08	12,37	10,33	20,3	-14,5	6
2023-12-17	12:08	12,39	10,33	20,5	-14,3	6
2023-12-17	0:08	12.42	10.33	20.8	-14.0	6
2023 12 16	12:08	12,12	10,33	20,8	14.0	6
2023-12-10	12.00	12,72	10,00	20,0	-14,0	0
2023-12-16	0:08	12,44	10,33	21,0	-13,8	0
2023-12-15	12:08	12,54	10,33	22,0	-12,8	6
2023-12-15	0:08	12,49	10,33	21,5	-13,3	6
2023-12-14	12:08	12,55	10,33	22,1	-12,7	6
2023-12-14	0:08	12.53	10.33	21.9	-12.9	6
2023-12-13	12.08	12.46	10.33	21.2	-13.6	6
2023-12-13	0:08	12,10	10,33	21,2	-13.4	6
2023-12-13	40.00	12,40	40.00	21,4	-13,4	0
2023-12-12	12:08	12,47	10,33	21,3	-13,5	0
2023-12-12	0:08	12,45	10,33	21,1	-13,7	6
2023-12-11	12:08	12,39	10,33	20,5	-14,3	6
2023-12-11	0:08	12,36	10,33	20,2	-14,6	7
2023-12-10	12:08	12,35	10,33	20.1	-14.7	7
2023-12-10	0:08	12.36	10.33	20.2	-14.6	7
2020 12-10	12:00	10.4	10,00	20,2	14.0	7
2023-12-09	12.08	12,4	10,33	20,0	- 14,2	1
2023-12-09	0:08	12,46	10,33	21,2	-13,6	- 1
2023-12-08	12:08	12,55	10,33	22,1	-12,7	1
2023-12-08	0:08	12,63	10,33	22,8	-11,9	7
2023-12-07	12:08	13,13	10,33	27,8	-6,9	7
2023-12-07	0:08	13,22	10,33	28,7	-6,1	7
2023-12-06	12:08	13,06	10,33	27,1	-7,6	8
2023-12-06	0.08	12.82	10.33	24.7	-10.0	8
2023-12-05	12.08	11.46	10.33	11.2	-23.5	8
2023-12-03	0.00	11,40	10,00	0.0	-23,3	0
2023-12-03	0.08	11,24	10,33	9,0	-23,7	0
2023-12-04	12:08	11,2	10,33	8,6	-26,1	8
2023-12-04	0:08	11,39	10,33	10,5	-24,2	8
2023-12-03	12:08	11,45	10,33	11,1	-23,6	8
2023-12-03	0:08	11,44	10,33	11,0	-23,7	8
2023-12-02	12:08	11,63	10,33	12,9	-21,8	8
2023-12-02	0:08	11.71	10.33	13.7	-21.1	8
2023-12-01	12:08	11.57	10.33	12.3	-22.4	8
2023-12-01	0.08	11.63	10.33	12.9	-21.8	8
2020 12 01	12:00	11,00	10,00	12,5	21,0	0
2023-11-30	12.00	11,59	10,55	12,5	-22,2	0
2023-11-30	0:08	11,55	10,33	12,1	-22,0	0
2023-11-29	12:08	11,6	10,33	12,6	-22,1	8
2023-11-29	0:08	11,8	10,33	14,6	-20,2	8
2023-11-28	12:08	11,94	10,33	16,0	-18,8	8
2023-11-28	0:08	11,94	10,33	16,0	-18,8	8
2023-11-27	12:08	11.95	10.33	16.1	-18.7	8
2023-11-27	0.08	11 03	10 33	15.0	_18.0	۵ و
2022 11 26	12:00	11,33	10,00	14.0	20.6	0
2023-11-20	12.08	11,70	10,33	14,2	-20,8	0
2023-11-26	0:08	12,03	10,33	16,9	-17,9	8
2023-11-25	12:08	11,87	10,33	15,3	-19,5	9
2023-11-25	0:08	11,87	10,33	15,3	-19,5	9
2023-11-24	12:08	11,77	10,33	14,3	-20,5	9
2023-11-24	0:08	11,8	10,33	14,6	-20,2	9
2023-11-23	12:08	11,77	10,33	14,3	-20,5	9
2023-11-23	0:08	11.77	10.33	14.3	-20.5	9
2023-11-22	12:08	12 05	10.33	17 1	-17 7	9
2023-11-22	0.08	12,00	10 33	17.5	_17 3	۵ ۵
2023-11-22	12:00	10.1	10,00	17,5	-17,0	
2023-11-21	12.08	12,1	10,33	17,0	-17,2	9
2023-11-21	0:08	11,95	10,33	16,1	-18,7	10
2023-11-20	12:08	11,78	10,33	14,4	-20,4	10
2023-11-20	0:08	11,95	10,33	16,1	-18,7	10
2023-11-19	12:08	11,76	10,33	14,2	-20,6	10
2023-11-19	0:08	11,99	10,33	16,5	-18,3	10
2023-11-18	12:08	12,03	10,33	16.9	-17.9	10
2023-11-18	0:08	12.04	10.33	17.0	-17.8	10
2023-11-17	12.08	11 97	10.33	16.3	-18.5	10
2023-11-17	0.09	11 02	10 22	15.0	_19.0	10
2020-11-17	10:00	44.07	10,00	15,9	-10,9	10
2023-11-10	12:08	11,8/	10,33	15,3	-19,5	10
2023-11-16	0:08	11,95	10,33	16,1	-18,7	10
2023-11-15	12:08	11,9	10,33	15,6	-19,2	10
2023-11-15	0:08	11,62	10,33	12,8	-21,9	10
1 0000 11 11	1 10 00	44.00	40.00	16.5	19.3	10
2023-11-14	12:08	11,99	10,33	10,5	-10,5	10

2023-11-13	12.08	11.88	10.33	15.4	_10 /	10
2023-11-13	12.00	11,00	10,33	15,4	-13,4	10
2023-11-13	0:08	11,86	10,33	15,2	-19,6	10
2023-11-12	12:08	11,84	10,33	15,0	-19,8	10
2023-11-12	0:08	11.86	10.33	15.2	-19.6	10
2023 11 11	12:08	11.93	10.33	14.0	10,0	10
2023-11-11	12.00	11,05	10,33	14,9	-19,9	10
2023-11-11	80:0	11,83	10,33	14,9	-19,9	10
2023-11-10	12:08	11,75	10,33	14,1	-20,7	10
2023-11-10	0.08	11.75	10.33	14 1	-20.7	10
2022 11 10	12:00	11,77	10.22	14.2	20,1	10
2023-11-09	12.00	11,77	10,33	14,5	-20,5	10
2023-11-09	0:08	11,82	10,33	14,8	-20,0	10
2023-11-08	12:08	11,8	10,33	14,6	-20,2	10
2023-11-08	0.08	11.82	10.33	14.8	-20.0	10
2023-11-00	0.00	11,02	10,33	14,0	-20,0	10
2023-11-07	12:08	11,78	10,33	14,4	-20,4	10
2023-11-07	0:08	11,76	10,33	14,2	-20,6	10
2023-11-06	12:08	11.69	10.33	13.5	-21.3	10
2022 11 00	0:00	11.69	10.22	12.4	21,0	10
2023-11-00	0.00	11,00	10,33	13,4	-21,4	10
2023-11-05	12:08	11,56	10,33	12,2	-22,5	10
2023-11-05	0:08	11,78	10,33	14,4	-20,4	10
2023-11-04	12.08	11 71	10.33	13.7	-21 1	10
2020 11 01	0.00	44.05	10,00	10,1	21,1	10
2023-11-04	0:08	11,05	10,33	13,1	-21,0	10
2023-11-03	12:08	11,61	10,33	12,7	-22,0	10
2023-11-03	0:08	11.68	10.33	13.4	-21.4	10
2023-11-02	12.08	11 71	10.33	13.7	-21.1	10
2020 11 02	0.00	11,71	10,00	14.0	21,1	10
2023-11-02	0:08	11,82	10,33	14,8	-20,0	10
2023-11-01	12:08	11,89	10,33	15,5	-19,3	10
2023-11-01	0:08	11.83	10.33	14.9	-19.9	10
2023-10-31	12.08	11 8	10 33	1/ 6	_20.2	10
2020-10-01	12.00	11,0	10,00	14,0	-20,2	10
2023-10-31	0:08	11,84	10,33	15,0	-19,8	10
2023-10-30	12:08	11,84	10,33	15,0	-19,8	10
2023-10-30	0:08	11.65	10.33	13.1	-21.6	10
2023 10 20	12.08	11.94	10.33	15.0	10.8	10
2023-10-29	12.00	11,04	10,33	15,0	-19,0	10
2023-10-29	80:0	11,89	10,33	15,5	-19,3	10
2023-10-28	12:08	11,86	10,33	15,2	-19,6	10
2023-10-28	0:08	11.8	10.33	14.6	-20.2	10
2023 10 27	12:08	11 70	10.33	14.5	20.3	10
2023-10-27	12.00	11,79	10,33	14,5	-20,3	10
2023-10-27	0:08	11,9	10,33	15,6	-19,2	10
2023-10-26	12:08	11,94	10,33	16,0	-18,8	11
2023-10-26	0:08	11.88	10.33	15.4	-19.4	11
2023 10 25	12:08	11.06	10.33	16.2	19.6	11
2023-10-23	12.00	11,50	10,00	10,2	-10,0	11
2023-10-25	80:0	11,97	10,33	16,3	-18,5	11
2023-10-24	12:08	11,95	10,33	16,1	-18,7	11
2023-10-24	0.08	11 72	10.33	13.8	-21.0	11
2023 10 23	12:08	11 74	10.33	14.0	20.8	11
2023-10-23	12.00	11,74	10,33	14,0	-20,8	11
2023-10-23	0:08	11,65	10,33	13,1	-21,6	11
2023-10-22	12:08	11,64	10,33	13,0	-21,7	11
2023-10-22	0.08	11.62	10.33	12.8	-21.9	12
2022 10 21	12:00	11.5	10.22	11.6	21,0	12
2023-10-21	12.00	11,5	10,33	11,0	-23,1	12
2023-10-21	0:08	11,61	10,33	12,7	-22,0	12
2023-10-20	12:08	11,47	10,33	11,3	-23,4	12
2023-10-20	0.08	11.67	10.33	13.3	-21.5	12
2020 10 20	10:00	11,01	10,00	10,0	21,0	12
2023-10-19	12.00	11,71	10,33	13,7	-21,1	12
2023-10-19	0:08	11,71	10,33	13,7	-21,1	12
2023-10-18	12:08	11,69	10 33	13.5	-21.3	12
2023-10-18	0.08		10,00	10,0	-21,0	
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2023-10-17	12.09	11,61	10,33	12,7	-21,3	12
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2023-10-17 2023-10-16 2023-10-16 2023-10-15 2023-10-15 2023-10-15 2023-10-14 2023-10-14 2023-10-13 2023-10-13 2023-10-13 2023-10-12 2023-10-12 2023-10-10 2023-10-09 2023-10-09 2023-10-09 2023-10-09 2023-10-06 2023-10-06	12:08 0:08 0:08 0:08 0:08 0:08 0:08 0:08	11,61 11,56 11,51 11,51 11,51 11,51 11,45 11,51 11,45 11,45 11,32 11,49 11,55 11,33 11,42 11,33 11,42 11,33 11,42 11,55 11,64 11,55 11,64 11,57 11,57 11,57 11,43 11,57 11,43 11,57 11,57 11,57 11,57 11,57 11,57 11,57 11,57 11,57 11,57 11,57 11,57 11,57	10,33 10,33	12,5 12,7 12,2 11,7 12,6 11,7 12,6 11,7 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,5 12,3 11,5 12,3 11,5 12,3 11,5 12,3 11,5 12,3 11,5 12,3 11,5 12,3 11,6 9,9 9 0,9 10,8 10,4 10,5 12,3 11,5 12,3 11,6 9,9 9 10,8 10,4 10,2 10,9 10,8 10,2 10,9 10,8 10,2 10,9 10,8 10,2 10,9 10,	-21,0 -22,0 -22,5 -23,0 -22,1 -23,0 -23,5 -23,6 -24,3 -24,9 -24,9 -23,2 -22,4 -22,4 -23,1 -24,8 -23,9 -24,3 -22,6 -21,7 -22,0 -22,8 -21,7 -22,4 -22,4 -22,4 -22,4 -22,4 -22,4 -22,4 -22,4 -22,5 -22,5 -23,5 -23,5 -23,5 -23,5 -23,5 -23,5 -23,5 -23,5 -23,5 -23,5 -23,5 -23,5 -23,5 -23,5 -23,5 -23,5 -23,5 -23,5 -24,9 -24,9 -23,2 -22,4 -22,4 -22,4 -22,4 -22,4 -22,4 -22,5 -22,5 -22,6 -24,9 -23,2 -22,4 -22,4 -22,4 -22,4 -22,4 -22,5 -22,6 -21,7 -22,0 -22,8 -22,6 -21,7 -22,0 -22,8 -22,7 -22,0 -22,8 -22,4 -22,6 -21,7 -22,0 -22,8 -22,4 -22,4 -22,4 -22,6 -22,8 -22,4 -22,4 -22,8 -22,8 -22,4 -22,8 -22,4 -22,8 -22,4 -22,8 -22,8 -22,8 -22,8 -22,8 -22,4 -22,4 -22,4 -22,4 -22,4 -22,8 -2	12 12 12 12 12 12 12 12 12 12 12 12 12 1
2023-10-17 2023-10-16 2023-10-16 2023-10-15 2023-10-15 2023-10-15 2023-10-14 2023-10-13 2023-10-13 2023-10-13 2023-10-13 2023-10-12 2023-10-12 2023-10-11 2023-10-10 2023-10-09 2023-10-08 2023-10-06 2023-10-06 2023-10-06	12:08 0:08 12:08 0:08 12:08 0:08 12:08 0:08 12:08 0:08 12:08 0:08 12:08 0:08 12:08 0:08 12:08 0:08 12:08 0:08 12:08 0:08 12:08 0:08 12:08 0:08 12:08	11,61 11,56 11,51 11,51 11,51 11,51 11,51 11,45 11,45 11,45 11,45 11,45 11,32 11,45 11,51 11,52 11,53 11,55 11,64 11,55 11,64 11,55 11,57 11,57 11,57 11,57 11,57 11,57 11,57 11,57 11,57 11,57 11,57 11,57 11,59 11,59 11,59 11,53 11,53	10,33 10	12,5 12,7 12,2 11,7 12,6 11,7 11,2 11,1 10,4 9,8 11,5 12,3 11,6 9,9 10,8 10,4 10,4 12,7 11,9 13,0 12,5 12,3 12,5 12,9 11,2 12,9 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,2 11,5 12,3 11,6 11,7 11,9 12,5 12,3 10,9 12,5 12,3 12,3 12,3 12,3 12,3 12,3 12,3 12,5 12,3 12,3 12,5 12,3 12,3 12,3 12,3 12,3 12,3 12,3 12,3 12,3 12,3 12,3 12,3 12,3 12,5 12,3 12,3 12,3 12,3 12,3 12,3 12,3 12,3 12,3 12,3 12,5 12,3 10,9 12,5 12,5 12,3 10,9 10,9 10,8 10,9 10,8 10,9 10,8 10,9 10,8 10,4 10,4 12,1 11,9 12,5 12,3 10,9 10,9 10,9 10,9 12,5 12,3 10,9 10,	-2.,0 -22,0 -22,5 -23,0 -22,1 -23,0 -23,5 -23,6 -24,3 -24,3 -24,3 -24,9 -23,2 -22,4 -23,1 -24,8 -23,9 -24,3 -22,6 -21,7 -22,6 -21,7 -22,6 -21,7 -22,2 -22,4 -22,8 -22,4 -22,8 -22,2 -22,4 -22,2 -22,4 -22,2 -22,4 -22,5 -23,5 -23,5 -23,6 -24,5 -22,6 -21,7 -22,2 -22,4 -22,4 -22,6 -21,7 -22,2 -22,4 -22,8 -22,6 -21,7 -22,2 -22,4 -22,8 -22,6 -21,7 -22,2 -22,4 -22,8 -22,6 -21,7 -22,2 -22,4 -22,8 -2	12 12 12 12 12 12 12 12 12 12 12 12 12 1
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2023-10-03	12:08	11,39	10,33	10,5	-24,2	12
2023-10-03	0:08	11,49	10,33	11,5	-23,2	12
2023-10-02	12:08	11,53	10,33	11,9	-22,8	12
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2023-10-01	12:08	11,49	10,33	11,5	-23,2	12
2023-10-01	0:08	11,47	10,33	11,3	-23,4	12
2023-09-30	12:08	11,59	10,33	12,5	-22,2	12
2023-09-30	0:08	11,45	10,33	11,1	-23,6	12
2023-09-29	12:08	11,46	10,33	11,2	-23,5	12
2023-09-29	0:08	11.52	10.33	11.8	-22.9	12
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2023-09-28	0:08	11.35	10.33	10.1	-24.6	12
2023-09-27	12:08	11.14	10.33	8.0	-26.7	12
2023-09-27	0:08	11.4	10.33	10.6	-24.1	12
2023-09-26	12:08	11.36	10.33	10.2	-24.5	12
2023-09-26	0:08	11.12	10,33	7.8	-26.9	12
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2023-09-24	12:08	11.14	10.33	8.0	-26.7	12
2023-09-24	0:08	11.32	10.33	9.8	-24.9	12
2023-09-23	12:08	11.28	10.33	9.4	-25.3	12
2023-09-23	0:08	10.91	10.33	5,8	-29.0	12
2023-09-22	12:08	10.89	10.33	5.6	-29.2	12
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2023-09-20	12:08	10.89	10.33	5.6	-29.2	12
2023-09-20	0:08	11.33	10.33	9,0	-24 8	12
2023-09-19	12:08	11	10,33	6.7	-28.1	12
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2023-09-14	0:08	11,07	10,33	7.4	-27.4	11
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2023-09-12	12:08	11.08	10,33	7.4	-27.3	11
2023-09-12	0:08	11,36	10,33	10.2	-24.5	11
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2023-09-10	12:08	11.23	10,33	8.9	-25.8	11
2023-09-10	0:08	10.99	10,33	6,6	-28.2	11
2023-09-09	12:08	10.8	10.33	4.7	-30.1	11
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2023-09-08	12:08	10.84	10.33	5.1	-29.7	11
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2023-08-28	12:08	11,88	10,33	15,4	-19,4	10
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2023-08-27	12:08	11,88	10,33	15,4	-19,4	10
2023-08-27	0:08	11,85	10,33	15,1	-19,7	10
2023-08-26	12:08	11,84	10,33	15,0	-19,8	10
2023-08-26	0:08	11,79	10,33	14,5	-20,3	10
2023-08-25	12:08	11,78	10,33	14,4	-20,4	10
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2023-08-24	12:08	12,53	10,33	21,9	-12,9	10
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2023-08-23	0:08	12.59	10.33	22.4	-12.3	10
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2023-08-10	12:08	12,77	10,33	24,2	-10,5	10
2023-08-10	0:08	12,75	10,33	24,0	-10,7	10
2023-08-09	12:08	12,66	10,33	23,1	-11,6	10
2023-08-09	0:08	12,62	10,33	22,7	-12,0	10
2023-08-08	12:08	12,57	10,33	22,2	-12,5	10
2023-08-08	0:08	12,6	10,33	22,5	-12,2	10
2023-08-07	12:08	12,6	10,33	22,5	-12,2	10
2023-08-07	0:08	12,65	10,33	23,0	-11,7	10
2023-08-06	12:08	12,72	10,33	23,7	-11,0	10
2023-08-06	0:08	12,75	10,33	24,0	-10,7	10
2023-08-05	12:08	12.7	10.33	23.5	-11.2	10
2023-08-05	0:08	12.71	10.33	23.6	-11.1	10
2023-08-04	12:08	12.65	10.33	23.0	-11.7	10
2023-08-04	0.08	12.63	10.33	22.8	-11.9	10
2023-08-03	12:08	12,00	10,33	22,0	-12.3	10
2023-08-03	0:08	12,00	10,00	22,4	-12,0	10
2023-08-02	12:08	12,02	10,00	22,1	_11.0	10
2023-08-02	0:08	12,00	10,33	22,0	-11,3	10
2023-00-02	12:09	12,59	10,33	22,4	-12,3	10
2023-00-01	12.00	12,0	10,33	22,3	-12,2	10
2023-06-01	0.08	12,00	10,33	23,0	-11,7	10
2023-07-31	12:08	12,00	10,33	23,1	-11,0	10
2023-07-31	0:08	12,67	10,33	23,2	-11,5	10
2023-07-30	12:08	12,67	10,33	23,2	-11,5	10
2023-07-30	0:08	12,66	10,33	23,1	-11,6	10
2023-07-29	12:08	12,65	10,33	23,0	-11,7	10
2023-07-29	0:08	12,69	10,33	23,4	-11,3	10
2023-07-28	12:08	12,68	10,33	23,3	-11,4	10
2023-07-28	0:08	12,66	10,33	23,1	-11,6	10
2023-07-27	12:08	12,62	10,33	22,7	-12,0	10
2023-07-27	0:08	12,63	10,33	22,8	-11,9	10
2023-07-26	12:08	12,62	10,33	22,7	-12,0	10
2023-07-26	0:08	12,6	10,33	22,5	-12,2	10
2023-07-25	12:08	12,55	10,33	22,1	-12,7	10
2023-07-25	0:08	12,56	10,33	22,1	-12,6	10
2023-07-24	12:08	12,54	10,33	22,0	-12,8	10
2023-07-24	0:08	12,56	10,33	22,1	-12,6	10
2023-07-23	12:08	12,62	10,33	22,7	-12,0	10
2023-07-23	0:08	12,66	10,33	23,1	-11,6	10
2023-07-22	12:08	12,68	10,33	23.3	-11,4	10
2023-07-22	0:08	12,66	10,33	23,1	-11,6	10
2023-07-21	12:08	12,68	10,33	23,3	-11,4	10
2023-07-21	0:08	12,67	10,33	23.2	-11.5	10
2023-07-20	12:08	12.65	10.33	23.0	-11.7	10
2023-07-20	0:08	12.66	10.33	23.1	-11.6	10
2023-07-19	12:08	12.72	10.33	23.7	-11.0	10
2023-07-19	0:08	12.71	10.33	23.6	-11.1	10
2023-07-18	12:08	12.73	10.33	23.8	-10.9	10
2023-07-18	0:08	12 71	10.33	23.6	-11 1	10
2023-07-17	12:08	12 72	10.33	23,7	-11 0	10
2023-07-17	0.08	12,72	10.33	23,7	_11 /	10
2023-07-16	12.08	12,00	10,00	23,3	_11.6	10
2023-07-16	0.08	12,00	10,00	20,1	_11.0	10
2023-07-15	12.08	12,04	10,00	22,0	_11,0	10
2020-01-10	12.00	12,00	10,00	20,0	-11,4	10

General

0000.07.15		10.00	40.00			
2023-07-15	0:08	12,69	10,33	23,4	-11,3	10
2023-07-14	12:08	12,7	10,33	23,5	-11,2	10
2023-07-14	0.08	12 67	10.33	23.2	-11.5	10
2020 07 14	10.00	12,07	10,00	20,2	11,0	10
2023-07-13	12:08	12,65	10,33	23,0	-11,7	10
2023-07-13	0:08	12,62	10,33	22,7	-12,0	10
2023-07-12	12.08	12.61	10.33	22.6	-12.1	10
2023-07-12	12.00	12,01	10,33	22,0	-12,1	10
2023-07-12	0:08	12,64	10,33	22,9	-11,8	10
2023-07-11	12.08	12.68	10.33	23.3	-11 4	10
2020 07 11	12.00	12,00	10,00	20,0	11,4	10
2023-07-11	0:08	12,08	10,33	23,3	-11,4	10
2023-07-10	12:08	12,7	10,33	23,5	-11,2	10
2023-07-10	0.08	12.68	10.33	23.3	-11.4	10
2023-07-10	0.00	12,00	10,33	23,3	-11,4	10
2023-07-09	12:08	12,71	10,33	23,6	-11,1	10
2023-07-09	0.08	12 72	10.33	23.7	-11.0	10
2022 07 00	12:00	12,74	10,00	220,1	10.9	10
2023-07-08	12:08	12,74	10,33	23,9	-10,8	10
2023-07-08	0:08	12,71	10,33	23,6	-11,1	10
2023-07-07	12.08	12.68	10.33	23.3	-11.4	10
2023-01-01	12.00	12,00	10,55	20,0	-11,4	10
2023-07-07	0:08	12,65	10,33	23,0	-11,7	10
2023-07-06	12:08	12.56	10.33	22.1	-12.6	10
2022.07.06	0.09	12.61	10.22	22.6	10.1	10
2023-07-06	0:08	12,01	10,33	22,0	-12,1	10
2023-07-05	12:08	12,54	10,33	22,0	-12,8	10
2023-07-05	0.08	12.66	10.33	23.1	-11.6	10
2023-01-03	0.00	12,00	10,55	20,1	-11,0	10
2023-07-04	12:08	12,56	10,33	22,1	-12,6	10
2023-07-04	0:08	12.56	10.33	22.1	-12.6	10
2022 07 02	10.00	10 55	10.00	-2,1	40.7	10
2023-07-03	12:08	12,55	10,33	22,1	-12,7	10
2023-07-03	0:08	12,54	10,33	22,0	-12,8	10
2023-07-02	12.09	12.52	10.22	21.0	_120	10
2020-07-02	12.00	12,00	10,33	21,9	- 12,9	10
2023-07-02	0:08	12,54	10,33	22,0		10
2023-07-01	12:08	12.59	10.33	22.4	-12.3	10
2022.07.04	0.00	10.04	10.00	,	40.4	10
2023-07-01	0:08	12,61	10,33	22,0	-12,1	10
2023-06-30	12:08	12,69	10,33	23,4	-11,3	10
2023-06-30	0.08	12 72	10.33	23.7	-11.0	10
2020 00 00	10.00	12,72	10,00	20,7	11,0	10
2023-06-29	12:08	12,74	10,33	23,9	-10,8	10
2023-06-29	0:08	12,83	10,33	24,8	-9,9	10
2022 06 29	12:00	10.79	10.22	24.2	10.4	10
2023-00-20	12.06	12,70	10,33	24,3	-10,4	10
2023-06-28	0:08	12,73	10,33	23,8	-10,9	10
2023-06-27	12.08	12 76	10.33	24.1	-10.6	10
2020 00 27	.2.00	10,70	10,00	2.1,1	10,0	10
2023-06-27	0:08	12,79	10,33	24,4	-10,3	10
2023-06-26	12:08	12,74	10,33	23,9	-10,8	10
2023 06 26	0.08	12.94	10.33	24.0	0.8	10
2023-00-20	0.00	12,04	10,33	24,9	-9,0	10
2023-06-25	12:08	12,81	10,33	24,6	-10,1	10
2023-06-25	0:08	12.86	10.33	25.1	-9.6	9
2020 00 20	40.00	12,00	10,00	25,1	0,7	
2023-06-24	12:08	12,85	10,33	25,0	-9,7	9
2023-06-24	0:08	12,82	10,33	24,7	-10,0	9
2023 06 23	12.08	12.81	10.33	24.6	10.1	0
2023-00-23	12.00	12,01	10,33	24,0	- 10, 1	3
2023-06-23	0:08	12,83	10,33	24,8	-9,9	9
2023-06-22	12:08	12.82	10.33	24.7	-10.0	9
2022 06 22	0.00	10.00	10.22	24.7	40.0	-
2023-06-22	0:08	12,82	10,33	24,7	-10,0	9
2023-06-21	12:08	12,77	10,33	24,2	-10,5	9
2023-06-21	0.08	12.88	10.33	25.3	-9.4	0
2023-00-21	0.00	12,00	10,55	25,5	-0,4	3
2023-06-20	12:08	12,9	10,33	25,5	-9,2	9
2023-06-20	0:08	12.92	10.33	25.7	-9.0	9
2022.06.40	10.00	12,02	10.00	25,1	0,0	
2023-00-19	12:08	12,89	10,33	20,4	-9,3	9
2023-06-19	0:08	12,86	10,33	25,1	-9,6	9
2023-06-18	12.08	12 87	10 33	25.2	_0 5	0
2020 00 10	0.00	12,07	40.00	25,2	-3,5	<u> </u>
2023-06-18	0:08	12,86	10,33	∠5,1	-9,6	9
2023-06-17	12:08	12,86	10,33	25,1	-9,6	9
2023-06-17	0.08	12 8/	10 33	2⊿ 0	<u>م ۵</u> _	0
2020 00 17	40.00	10.04	10,00	2-7,0	3,0	⊢ĭI
2023-06-16	12:08	12,84	10,33	∠4,9	-9,8	9
2023-06-16	0:08	12,97	10,33	26,2	-8,5	9
2023-06-15	12.08	12 99	10.33	26.4	_8.3	9
2020 00 10	12.00	10.00	10,00	20,7	0,0	⊢ _ ĭI
2023-06-15	0:08	13,06	10,33	2/,1	-7,6	9
2023-06-14	12:08	13,03	10,33	26.8	-7.9	9
2023-06-14	0.09	13.00	10 22	27.4	73	0
2020-00-14	0.00	13,09	10,00	21,4	-1,5	
2023-06-13	12:08	13	10,33	26,5	-8,2	9
2023-06-13	0:08	12.99	10.33	26.4	-8.3	9
2022.06.42	10:00	10.04	40.00		0,0	
2023-00-12	12:08	13,01	10,33	20,0	-8,1	9
2023-06-12	0:08	13,37	10,33	30,2	-4,6	9
2023-06-11	12:08	13.38	10.33	30.3	-4.5	9
2000 00 11	0.00	40.07	40.00	20,0	4,0	<u> </u>
2023-06-11	0:08	13,37	10,33	30,2	-4,6	9
2023-06-10	12:08	13,36	10,33	30,1	-4,7	9
2023-06-10	0.08	13.29	10.22	30.3	_1.5	0
2020-00-10	0.00	10,00	10,33	50,5	-4,5	9
2023-06-09	12:08	13,33	10,33	29,8		9
2023-06-09	0:08	13.08	10.33	27.3	-7.4	9
2023 06 09	12.00	13.06	10.00	27.4	76	0
2023-00-00	12.00	13,00	10,33	27,1	-7,0	3
2023-06-08	0:08	13,07	10,33	27,2	-7,5	9
2023-06-07	12.08	13.05	10 33	27.0	_7 7	<u>a</u>
2020 00 07	0.00	10,00	40.00	27,0	-1,1	<u> </u>
2023-06-07	0:08	13,11	10,33	27,6	-7,1	Э
2023-06-06	12:08	13,1	10,33	27,5	-7,2	9
2023-06-06	0.08	13.00	10.22	27 /	_73	0
2023-00-00	0.00	13,09	10,33	27,4	-7,3	3
2023-06-05	12:08	13,1	10,33	27,5	-7,2	9
2023-06-05	0:08	13.14	10.33	27.9	-6.8	9
				,•	. 0,0	

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2023-06-04	12:08	13,14	10,33	27,9	-6,8	9
2023-06-04	0:08	13,13	10,33	27,8	-6,9	9
2023-06-03	12:08	13,13	10,33	27,8	-6,9	9
2023-06-03	0:08	13,15	10,33	28,0	-6,7	9
2023-06-02	12:08	13,13	10,33	27,8	-6,9	9
2023-06-02	0:08	13,02	10,33	26,7	-8,0	9
2023-06-01	12:08	12,97	10,33	26,2	-8,5	9
2023-06-01	0:08	12,99	10,33	26,4	-8,3	9
2023-05-31	12:08	13,02	10,33	26,7	-8,0	9
2023-05-31	0:08	13,07	10,33	27,2	-7,5	9
2023-05-30	12:08	13,06	10,33	27,1	-7,6	9
2023-05-30	0:08	13	10,33	26,5	-8,2	9
2023-05-29	12:08	13,03	10,33	26,8	-7,9	9
2023-05-29	0:08	12,99	10,33	26,4	-8,3	9
2023-05-28	12:08	12,99	10,33	26,4	-8,3	9
2023-05-28	0:08	12,98	10,33	26,3	-8,4	9
2023-05-27	12:08	13	10,33	26,5	-8,2	9
2023-05-27	0:08	13,04	10,33	26,9	-7,8	9
2023-05-26	12:08	13	10,33	26,5	-8,2	9
2023-05-26	0:08	13	10,33	26,5	-8,2	9
2023-05-25	12:08	13	10,33	26,5	-8,2	9
2023-05-25	0:08	12,98	10,33	26,3	-8,4	9
2023-05-24	12:08	12,94	10,33	25,9	-8,8	9
2023-05-24	0:08	12,95	10,33	26,0	-8,7	9
2023-05-23	12:08	12,91	10,33	25,6	-9,1	9
2023-05-23	0:08	12,96	10,33	26,1	-8,6	9
2023-05-22	12:08	13,02	10,33	26,7	-8,0	9
2023-05-22	0:08	13,07	10,33	27,2	-7,5	9
2023-05-21	12:08	13,09	10,33	27,4	-7,3	9
2023-05-21	0:08	13,07	10,33	27,2	-7,5	9
2023-05-20	12:08	13,09	10,33	27,4	-7,3	9
2023-05-20	0:08	13,11	10,33	27,0	-7,1	9
2023-05-19	12:08	13,13	10,33	27,8	-6,9	9
2023-05-19	0:08	13,13	10,33	27,8	-0,9	9
2023-05-18	12:08	13,11	10,33	27,0	-7,1	9
2023-05-18	0:08	13,11	10,33	27,0	-7,1	9
2023-05-17	12:08	13	10,33	20,0	-8,2	9
2023-05-17	0:08	12,98	10,33	20,3	-8,4	9
2023-05-16	12:08	12,99	10,33	20,4	-6,3	9
2023-05-10	12:08	12,99	10,33	20,4	-0,3	9
2023-05-15	0:08	12,07	10,33	20,2	-0,5	3
2023-05-13	12:08	13,00	10,33	27,1	-7,0	9
2023-05-14	0:08	13,05	10,33	27,0	-7,1	9
2023-05-14	12:08	13,00	10,33	27,1	-7,0	3
2023-05-13	0:08	13,07	10,33	27,2	-7.6	9
2023-05-12	12:08	13.04	10,33	26.9	-7.8	9
2023-05-12	0:08	12.94	10,33	25,9	-8.8	9
2023-05-11	12:08	12,87	10,33	25,2	-9.5	9
2023-05-11	0:08	12.88	10,33	25.3	-9.4	9
2023-05-10	12:08	13.04	10.33	26.9	-7.8	9
2023-05-10	0:08	12.98	10.33	26.3	-8.4	9
2023-05-09	12:08	13,68	10,33	33.3	-1.5	9
2023-05-09	0:08	13,85	10,33	35.0	0.2	9
2023-05-08	12:08	13,8	10,33	34,5	-0,3	9
2023-05-08	0:08	13,84	10,33	34,9	0,1	9
2023-05-07	12:08	13,85	10,33	35,0	0,2	9
2023-05-07	0:08	13,85	10,33	35,0	0,2	9
2023-05-06	12:08	13,84	10,33	34,9	0,1	9
2023-05-06	0:08	13,9	10,33	35,5	0,7	9
2023-05-05	12:08	13,86	10,33	35,1	0,3	9
2023-05-05	0:08	13,79	10,33	34,4	-0,4	9
2023-05-04	12:08	13,81	10,33	34,6	-0,2	9
2023-05-04	0:08	13,78	10,33	34,3	-0,5	9
2023-05-03	12:08	13,85	10,33	35,0	0,2	9
2023-05-03	0:08	13,85	10,33	35,0	0,2	9
2023-05-02	12:08	13,7	10,33	33,5	-1,3	9
2023-05-02	0:08	13,62	10,33	32,7	-2,1	9
2023-05-01	12:08	13,64	10,33	32,9	-1,9	9
2023-05-01	0:08	13,72	10,33	33,7	-1,1	9
2023-04-30	12:08	13,68	10,33	33,3	-1,5	9
2023-04-30	0:08	13,65	10,33	33,0	-1,8	10
2023-04-29	12:08	13,64	10,33	32,9	-1,9	9
2023-04-29	0:08	13,/	10,33	33,5	-1,3	10
2023-04-28	12:08	13,0/	10,33	33,Z	-1,6	10
2023-04-28	0:08	13,/3	10,33	33,8	-1,0	10
2023-04-27	12.08	13,02	10,33	32,7	-2,1	10
2023-04-27	0:08	13,00	10,33	33,1	-1,7	10
2023-04-20	12.08	13,0	10,33	32,3	-2,3	10
2023-04-20	12.00	12.09	10,33	32,4	-2,4	10
1 2020-04-20	1 12.00	13,0	10,33	J 32,5	-2,3	10

0000.04.05	0.00	40.04	40.00	00.0	10	10
2023-04-25	0:08	13,64	10,33	32,9	-1,9	10
2023-04-24	12:08	13,01	10,33	32,0	-2,2	10
2023-04-24	12:08	13,02	10,33	32,7	-2,1	10
2023-04-23	12.00	13,59	10,33	32,4	-2,4	10
2023-04-22	12:08	13,01	10,33	33.1	-2,2	10
2023-04-22	0:08	13,00	10,33	33.5	-1,7	10
2023-04-21	12:08	13,71	10,00	33.6	-12	10
2023-04-21	0:08	13,64	10,33	32.9	-1.9	10
2023-04-20	12:08	13.57	10.33	32.2	-2.6	10
2023-04-20	0:08	13.56	10.33	32.1	-2.7	10
2023-04-19	12:08	13,57	10,33	32,2	-2,6	10
2023-04-19	0:08	13,61	10,33	32,6	-2,2	10
2023-04-18	12:08	13,61	10,33	32,6	-2,2	10
2023-04-18	0:08	13,57	10,33	32,2	-2,6	10
2023-04-17	12:08	13,51	10,33	31,6	-3,2	10
2023-04-17	0:08	13,58	10,33	32,3	-2,5	10
2023-04-16	12:08	13,54	10,33	31,9	-2,9	10
2023-04-16	0:08	13,55	10,33	32,0	-2,8	10
2023-04-15	12:08	13,52	10,33	31,7	-3,1	10
2023-04-15	0:08	13,5	10,33	31,5	-3,3	10
2023-04-14	12:08	13,42	10,33	30,7	-4,1	10
2023-04-14	0:08	13,42	10,33	30,7	-4,1	10
2023-04-13	12:08	13,31	10,33	29,6	-5,2	10
2023-04-13	0:08	13,45	10,33	31,0	-3,8	10
2023-04-12	12:08	13,51	10,33	31,6	-3,2	10
2023-04-12	12.09	13,44	10,33	30,9	-3,9	10
2023-04-11	0.08	13,30	10,33	30,3	-4,3	10
2023-04-10	12:08	13,47	10,00	31.2	-3.6	10
2023-04-10	0:08	13.49	10,33	31.4	-3.4	10
2023-04-09	12:08	13,5	10,33	31,5	-3,3	10
2023-04-09	0:08	13,51	10,33	31,6	-3,2	10
2023-04-08	12:08	13,5	10,33	31,5	-3,3	10
2023-04-08	0:08	13,47	10,33	31,2	-3,6	10
2023-04-07	12:08	13,5	10,33	31,5	-3,3	10
2023-04-07	0:08	13,46	10,33	31,1	-3,7	10
2023-04-06	12:08	13,42	10,33	30,7	-4,1	10
2023-04-06	0:08	13,42	10,33	30,7	-4,1	10
2023-04-05	12:08	13,42	10,33	30,7	-4,1	10
2023-04-05	0:08	13,47	10,33	31,Z	-3,0	10
2023-04-04	12.00	13,40	10,33	31,1	-3,7	10
2023-04-04	12:08	13,51	10,33	31,0	-3,2	10
2023-04-03	0:08	13.52	10,00	31.7	-3.1	10
2023-04-02	12:08	13.5	10,33	31.5	-3.3	10
2023-04-02	0:08	13,42	10,33	30,7	-4,1	10
2023-04-01	12:08	13,36	10,33	30,1	-4,7	10
2023-04-01	0:08	13,29	10,33	29,4	-5,4	10
2023-03-31	12:08	13,25	10,33	29,0	-5,8	10
2023-03-31	0:08	13,26	10,33	29,1	-5,7	10
2023-03-30	12:08	13,31	10,33	29,6	-5,2	10
2023-03-30	0:08	13,35	10,33	30,0	-4,8	10
2023-03-29	12:08	13,38	10,33	30,3	-4,5	10
2023-03-29	0:08	13,34	10,33	29,9	-4,9	10
2023-03-28	12:08	13,39	10,33	30,4	-4,4	10
2023-03-20	12.08	13.39	10,33	29.6	-4,4	10
2023-03-27	0:08	13.46	10,33	31.1	-3.7	10
2023-03-26	12:08	13,41	10,33	30,6	-4,2	10
2023-03-26	0:08	13,41	10,33	30,6	-4,2	10
2023-03-25	12:08	13,31	10,33	29,6	-5,2	10
2023-03-25	0:08	13,3	10,33	29,5	-5,3	10
2023-03-24	12:08	13,36	10,33	30,1	-4,7	10
2023-03-24	0:08	13,77	10,33	34,2	-0,6	10
2023-03-23	12:08	13,89	10,33	35,4	0,6	10
2023-03-23	0:08	13,85	10,33	35,0	0,2	10
2023-03-22	12:08	14,13	10,33	3/,/	3,0	10
2023-03-22	12:08	14,03	10,33	30,8 36,0	2,0	10
2023-03-21	0.08	14,04	10,33	36.8	2,1	10
2023-03-21	12.08	14 13	10,33	37.7	2,0	10
2023-03-20	0:08	14.18	10,33	38.2	3,0	10
2023-03-19	12:08	14,19	10,33	38.3	3.6	10
2023-03-19	0:08	14,2	10,33	38,4	3,7	10
2023-03-18	12:08	14,16	10,33	38,0	3,3	10
2023-03-18	0:08	14,18	10,33	38,2	3,5	10
2023-03-17	12:08	14,2	10,33	38,4	3,7	10
2023-03-17	0:08	14,28	10,33	39,2	4,5	10
2023-03-16	12:08	14,29	10,33	39,3	4,6	10
2023-03-16	0:08	14,27	10,33	39,1	4,4	10

2023-03-15	12:08	14,24	10,33	38,8	4,1	10
2023-03-15	0:08	14,13	10,33	37,7	3,0	10
2023-03-14	12:08	14,06	10,33	37,0	2,3	10
2023-03-14	0:08	13,94	10,33	35,9	1,1	10
2023-03-13	12:08	14,02	10,33	36,7	1,9	10
2023-03-13	0:08	14,17	10,33	38,1	3,4	10
2023-03-12	12:08	14,24	10,33	38,8	4,1	10
2023-03-12	0:08	14,22	10,33	38,6	3,9	10
2023-03-11	12:08	14,25	10,33	38,9	4,2	10
2023-03-11	0:08	14,23	10,33	38,7	4,0	10
2023-03-10	12:08	14,27	10,33	39,1	4,4	10
2023-03-10	0:08	14,31	10,33	39,5	4,8	10
2023-03-09	12:08	14,32	10,33	39,6	4,9	10
2023-03-09	0:08	14,37	10,33	40,1	5,4	10
2023-03-08	12:08	14,34	10,33	39,8	5,1	10
2023-03-08	0:08	14,34	10,33	39,8	5,1	10
2023-03-07	12:08	14,27	10,33	39,1	4,4	10
2023-03-07	0:08	14,43	10,33	40,7	6,0	10
2023-03-06	12:08	14,44	10,33	40,8	6,1	10
2023-03-06	0:08	14,48	10,33	41,2	6,5	10
2023-03-05	12:08	14,56	10,33	42,0	7,3	10
2023-03-05	0:08	14,64	10,33	42,8	8,0	10
2023-03-04	12:08	14,67	10,33	43,1	8,3	10
2023-03-04	0:08	14,68	10,33	43,2	8,4	10
2023-03-03	12:08	14,75	10,33	43,9	9,1	10
2023-03-03	0:08	14,84	10,33	44,8	10,0	10
2023-03-02	12:08	14,85	10,33	44,9	10,1	10
2023-03-02	0:08	14,91	10,33	45,5	10,7	10
2023-03-01	12:08	15,03	10,33	46,7	11,9	10
2023-03-01	0:08	15,08	10,33	47,2	12,4	10
2023-02-28	12:08	15,15	10,33	47,9	13,1	10
2023-02-28	0:08	15,26	10,33	49,0	14,2	10
2023-02-27	12:08	15,41	10,33	50,5	15,7	10
2023-02-27	0:08	15,23	10,33	48,7	13,9	10
2023-02-26	12:08	15,35	10,33	49,9	15,1	10
2023-02-26	0:08	15,46	10,33	51,0	16,2	10
2023-02-25	12:08	15,57	10,33	52,0	17,3	10
2023-02-25	0:08	15,83	10,33	54,6	19,9	10
2023-02-24	12:08	16,27	10,33	59,0	24,2	10
2023-02-24	0:08	16,4	10,33	60,3	25,5	25
2023-02-23	12:07	17,64	10,33	72,6	37,8	24
2023-02-23	0:07	16,88	10,33	65,1	30,3	17

Uppdragsnamn	Uppdragsnummer	Mätpunkt	Installationsdjup	Installationsdatum	Avläsningstidpunkt	S	erienummer						
BRF	Sidney	PVT	10M	10,04	1	2023-02-23	2024-03-11	10:29	32544	10	12,5	1000	9,81

Maxvärde Minvärde 86,51316375 62,47621125

Datum	Klockslag	Portryck okorrigerat	Lufttryck	Portryck	Excessive pore pressure [kPa]	Temp (°C)
2024-03-10	12:27	17,23	10,33	68,5	-15,9	8
2024-03-10	00:27	17,25	10,33	68,7	-15,7	8
2024-03-09	12:27	17.22	10.33	68.4	-16.0	8
2024-03-09	00.22	17.23	10 33	68 5	-15.9	8
2024-03-08	12:27	17,20	10,00	68.8	-15.6	8
2024-03-08	12.27	17,20	10,33	08,8	-13,6	8
2024-03-08	00:27	17,26	10,33	68,8	-15,6	8
2024-03-07	12:27	17,26	10,33	68,8	-15,6	8
2024-03-07	00:27	17,26	10,33	68,8	-15,6	8
2024-03-06	12:27	17,24	10,33	68,6	-15,8	8
2024-03-06	00:27	17.27	10.33	68.9	-15.5	8
2024-03-05	12:27	17.21	10.33	68.3	-16.1	8
2024-03-03	12.27	17,21	10,33	00,3	-10,1	0
2024-03-05	00:27	17,22	10,33	68,4	-16,0	8
2024-03-04	12:27	17,19	10,33	68,1	-16,3	8
2024-03-04	00:27	17,16	10,33	67,8	-16,6	8
2024-03-03	12:27	17,14	10,33	67,6	-16,8	8
2024-03-03	00:27	17,16	10,33	67,8	-16,6	8
2024-03-02	12.27	17 17	10.33	67.9	-16.5	8
2024-03-02	00.27	17.16	10.33	67.8	-16.6	9
2024-03-02	00.27	17,10	10,33	07,8	-10,0	8
2024-03-01	12:27	17,18	10,33	68,0	-16,4	8
2024-03-01	00:27	17,2	10,33	68,2	-16,2	8
2024-02-29	12:27	17,2	10,33	68,2	-16,2	8
2024-02-29	00:27	17,26	10,33	68.8	-15.6	9
2024-02-28	12:27	17 24	10 33	68.6	_15 R	, P
2024 02-20	00:07	17,24	10,00	50,0	-13,0	
2024-02-28	00:27	17,27	10,33	68,9	-15,5	8
2024-02-27	12:27	1/,37	10,33	69,9	-14,5	8
2024-02-27	00:27	17,27	10,33	68,9	-15,5	9
2024-02-26	12:27	17,12	10,33	67,4	-17,0	8
2024-02-26	00:27	17,12	10,33	67,4	-17.0	8
2024-02-25	12:27	17 11	10 33	67.3	-171	c
2024-02-23	12.27	17,11	10,00	67,3	-17,1	
2024-02-20	00:27	1/,1	10,33	07,2	-17,2	8
2024-02-24	12:27	17,07	10,33	66,9	-17,5	8
2024-02-24	00:27	17,05	10,33	66,7	-17,7	9
2024-02-23	12:27	17,02	10,33	66,4	-18,0	9
2024-02-23	00:27	17.06	10.33	66.8	-17.6	9
2024-02-22	12.27	17 13	10 33	67.5	-16.9	c
2024-02-22	12.27	17,15	10,00	07,3	-10,5	
2024-02-22	00:27	17,15	10,33	6/,/	-16,/	e e
2024-02-21	12:27	17,18	10,33	68,0	-16,4	g
2024-02-21	00:27	17,19	10,33	68,1	-16,3	g
2024-02-20	12:27	17,18	10,33	68,0	-16,4	9
2024-02-20	00:27	17.16	10.33	67.8	-16.6	g
2024 02 10	10:27	17,10	10,00	67,8	16,6	9
2024-02-19	12.27	17,10	10,33	07,8	-10,0	9
2024-02-19	00:27	17,19	10,33	68,1	-16,3	9
2024-02-18	12:27	17,18	10,33	68,0	-16,4	9
2024-02-18	00:27	17,2	10,33	68,2	-16,2	9
2024-02-17	12:27	17.15	10.33	67.7	-16.7	9
2024-02-17	00.22	17.1	10 33	67.2	-17.2	c
2024 02 17	10:27	17,1	10,00	67,2	17,2	
2024-02-10	12.27	1/,1	10,33	07,2	-17,2	
2024-02-16	00:27	17,06	10,33	66,8	-17,6	ų
2024-02-15	12:27	17,1	10,33	67,2	-17,2	g
2024-02-15	00:27	17,1	10,33	67,2	-17,2	9
2024-02-14	12:27	17.1	10.33	67.2	-17.2	c.
2024-02-14	00.27	17.07	10 22	2,12 A A A	_17.5	C
2024-02-14	10.27	17,07	10,33	00,9	-17,5	5
2024-02-13	12:27	17,03	10,33	66,5	-17,9	<u>ر</u>
2024-02-13	00:27	17	10,33	66,3	-18,2	S
2024-02-12	12:27	16,98	10,33	66,1	-18,4	9
2024-02-12	00:27	16,96	10,33	65,9	-18,6	9
2024-02-11	12:27	16,96	10,33	65,9	-18,6	9
2024-02-11	00.02	16.96	10 33	65.0	_12 6	0
2024-02-11	10.27	16,50	10,00	03,9	-10,0	3
2024-02-10	12.27	10,97	10,33	00,0	-18,5	9
2024-02-10	00:27	16,98	10,33	66,1	-18,4	9
2024-02-09	12:27	16,96	10,33	65,9	-18,6	9
2024-02-09	00:27	16,95	10,33	65,8	-18,7	9
2024-02-08	12:27	16.92	10.33	65.5	-19 0	ç
2024-02-00	00.07	16.02	10.00	50,0 65.1	10,0	
2024-02-00	00.27	10,00	10,33	03,1	-19;4	5
2024-02-07	12:27	16,87	10,33	65,0	-19,5	9
2024-02-07	00:27	16,83	10,33	64,6	-19,9	S
2024-02-06	12:27	16,84	10,33	64,7	-19,8	9
2024-02-06	00:27	16.85	10.33	64.8	-19.7	9
2024-02-05	12:27	16.87	10 33	65.0	-19 5	
2024 02-00	00.07	10,07	10,00	55,0	-10,0	
2024-02-05	00:27	16,82	10,33	64,5	-20,0	ų.
2024-02-04	12:27	16,79	10,33	64,2	-20,3	9
2024-02-04	00:27	16,82	10,33	64,5	-20,0	9
2024-02-03	12:27	16.82	10.33	64.5	-20.0	9
2024-02-03	00.52	16.81	10 33	64.4	-20 1	c
2021 02 00	10:07	10,01	10,00	647	20,1	
2024-02-02	12:27	16,84	10,33	64,7	-19,8	5
2024-02-02	00:27	16,86	10,33	64,9	-19,6	9
2024-02-01	12:27	16,85	10,33	64,8	-19,7	9
2024-02-01	00:27	16,81	10,33	64,4	-20,1	9
2024-01-31	12:27	16.85	10.33	64.8	-19.7	ģ
2024-01-31	00.27	16.91	10 33	64.4		6
-0201-01		10,01	10,00	04,4	-20,1	. 3

Hydrostatiskt portryck 84,42731

2024-01-30	12:27	16,93	10,33	65,6	-18,9	9
2024-01-30	00:27	16,91	10,33	65,4	-19,1	9
2024-01-29	12:27	16,92	10,33	65,5	-19,0	9
2024-01-29	00:27	16,9	10,33	65,3	-19,2	9
2024-01-28	12.27	16.89	10.33	65.2		9
2024-01-20	12.27	10,05	10,55	05,2	-13,3	3
2024-01-28	00:27	16,9	10,33	65,3	-19,2	9
2024-01-27	12:27	16,87	10,33	65,0	-19,5	9
2024-01-27	00:27	16,84	10,33	64,7	-19,8	9
2024-01-26	12:27	16,82	10,33	64,5	-20,0	9
2024-01-26	00:27	16.87	10.33	65.0	-19.5	g
2024-01-25	12.27	16.86	10.33	64.9	-19.6	c
2024-01-23	12.27	10,00	10,00	04,5	-13,0	
2024-01-25	00:27	16,82	10,33	64,5	-20,0	5
2024-01-24	12:27	16,71	10,33	63,4	-21,1	ç
2024-01-24	00:27	16,73	10,33	63,6	-20,9	S
2024-01-23	12:27	16,78	10,33	64,1	-20,4	9
2024-01-23	00:27	16.76	10.33	63.9	-20.6	ç
2024-01-22	12:27	16,73	10,33	63,6	-20,9	
2024-01-22	12.27	10,75	10,55	03,0	-20,5	
2024-01-22	00:27	16,82	10,33	64,5	-20,0	5
2024-01-21	12:27	16,84	10,33	64,7	-19,8	ę
2024-01-21	00:27	16,83	10,33	64,6	-19,9	ç
2024-01-20	12:27	16,79	10,33	64,2	-20,3	9
2024-01-20	00:27	16.76	10.33	63.9	-20.6	ç
2024-01-19	12.27	16.8	10.33	64.3	-20.2	
2024-01-13	12.27	10,0	10,00	04,3	-20,2	
2024-01-19	00:27	16,76	10,33	63,9	-20,6	
2024-01-18	12:27	16,68	10,33	63,1	-21,4	(
2024-01-18	00:27	16,64	10,33	62,7	-21,8	9
2024-01-17	12:27	16,68	10,33	63,1	-21,4	9
2024-01-17	00:27	16.74	10.33	63.7	-20.8	9
2024-01-16	12.27	16 75	10.22	62.9	_20,0	
2024-01-10	12.27	10,75	10,33	03,0	-20,7	
2024-01-10	00:27	16,/3	10,33	63,6	-20,9	5
2024-01-15	12:27	16,65	10,33	62,8	-21,7	9
2024-01-15	00:27	16,67	10,33	63,0	-21,5	9
2024-01-14	12:27	16,7	10,33	63,3	-21,2	9
2024-01-14	00:27	16.7	10.33	63.3	-21.2	ç
2024-01-13	12.27	16 72	10.33	63.5	-21.0	
2024-01-13	12.27	10,72	10,55	03,3	-21,0	
2024-01-13	00:27	16,76	10,33	63,9	-20,6	
2024-01-12	12:27	16,76	10,33	63,9	-20,6	ę
2024-01-12	00:27	16,78	10,33	64,1	-20,4	ş
2024-01-11	12:27	16,8	10,33	64,3	-20,2	9
2024-01-11	00.22	16.8	10.33	64.3	-20.2	ç
2024 01 10	12:27	16.01	10,00	65.4	10.1	
2024-01-10	12.27	10,91	10,33	03,4	-19,1	
2024-01-10	00:27	17,06	10,33	66,8	-17,6	5
2024-01-09	12:27	17,26	10,33	68,8	-15,6	ę
2024-01-09	00:27	17,3	10,33	69,2	-15,2	9
2024-01-08	12:27	17,42	10,33	70,4	-14,0	9
2024-01-08	00:27	17.44	10.33	70.6	-13.8	ç
2024-01-07	12.27	17.44	10.33	70.6	-13.8	
2024-01-07	12.27	17,44	10,55	70,0	-13,0	
2024-01-07	00:27	17,4	10,33	/0,2	-14,2	5
2024-01-06	12:27	17,4	10,33	70,2	-14,2	ç
2024-01-06	00:27	17,37	10,33	69,9	-14,5	ģ
2024-01-05	12:27	17,37	10,33	69,9	-14,5	9
2024-01-05	00:27	17.38	10.33	70.0	-14.4	ç
2024-01-04	12.27	17.36	10.33	8 93	-14.6	
2024-01-04	00:27	17,30	10,33	60,4	-14,0	
2024-01-04	00:27	17,32	10,33	69,4	-15,0	
2024-01-03	12:27	17,32	10,33	69,4	-15,0	Ģ
2024-01-03	00:27	17,34	10,33	69,6	-14,8	9
2024-01-02	12:27	17,36	10,33	69,8	-14,6	9
2024-01-02	00.52	17 34	10.33	69.6	-1 <i>1</i> R	
2024-01-01	12:27	17 25	10.33	60,0 60 7		
2024-01-01	12.27	17,33	10,33	03,7	-14,7	
2024-01-01	00:27	17,35	10,33	69,7	-14,/	5
2023-12-31	12:27	17,36	10,33	69,8	-14,6	
2023-12-31	00:27	17,36	10,33	69,8	-14,6	ę
2023-12-30	12:27	17,35	10,33	69,7	-14,7	9
2023-12-30	00:27	17,35	10,33	69,7	-14,7	9
2023-12-29	12:27	17.34	10.33	69.6	-14 8	ģ
2023-12-20	00.27	17.04	10.00	0,0 0 0	_1/ 6	
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2023-12-20	12.27	17,38	10,33	/0,0	-14,4	
2023-12-28	00:27	17,43	10,33	70,5	-13,9	9
2023-12-27	12:27	17,45	10,33	70,7	-13,7	9
2023-12-27	00:27	17,38	10,33	70,0	-14,4	
2023-12-26	12:27	17,36	10,33	69,8	-14,6	9
2023-12-26	00:27	17.38	10.33	70.0	-14 4	ģ
2023-12-25	10.07	17 04	10.00	60 G	_1/ 0	
2023-12-23	12.27	17,04	10,33	03,0	-14,8	
2023-12-25	00:27	17,32	10,33	69,4	-15,0	• •
2023-12-24	12:27	17,38	10,33	70,0	-14,4	
2023-12-24	00:27	17,34	10,33	69,6	-14,8	9
2023-12-23	12:27	17,36	10,33	69.8	-14.6	9
2023-12-23	00.22	17 35	10.33	69.7	-14 7	
2023-12 20	10.07	17.00	10.00	60,7	14.7	
2023-12-22	12.2/	17,30	10,33	09,8	-14,6	
2023-12-22	00:27	1/,32	10,33	69,4	-15,0	9
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2023-12-21	12:27	17,52				
2023-12-21 2023-12-21	12:27 00:27	<u> </u>	10,33	70,1	-14,3	
2023-12-21 2023-12-21 2023-12-20	12:27 00:27 12:27	17,32 17,39 17,39	10,33 10,33	70,1 70.1	-14,3 -14.3	9
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2023-12-18	00:27	17,5	10,33	71,2	-13,2	9
2023-12-17	12:27	17,53	10,33	71,5	-12,9	9
2023-12-17	00.22	17 52	10.33	71.4	-13.0	9
2020 12 17	10:07	17,02	10,00	71,1	10,0	°
2023-12-16	12:27	17,54	10,33	/1,6	-12,8	9
2023-12-16	00:27	17,58	10,33	72,0	-12,4	9
2023-12-15	12:27	17.54	10.33	71.6	-12.8	9
2022 12 15	00:27	17.59	10.00	72.0	10.4	-
2023-12-15	00.27	17,58	10,33	72,0	-12,4	9
2023-12-14	12:27	17,6	10,33	72,2	-12,2	8
2023-12-14	00:27	17,58	10,33	72,0	-12,4	9
2023-12-13	12.27	17.56	10.33	71.8	-12.6	8
2023-12-13	12.27	17,30	10,33	71,8	-12,0	8
2023-12-13	00:27	17,54	10,33	71,6	-12,8	9
2023-12-12	12:27	17,54	10,33	71,6	-12,8	9
2023-12-12	00.22	17.5	10.33	71.2	-13.2	9
2020 12 12	10.27	17,0	10,00	71,2	10,2	0
2023-12-11	12:27	17,49	10,33	/1,1	-13,3	9
2023-12-11	00:27	17,45	10,33	70,7	-13,7	9
2023-12-10	12:27	17.44	10.33	70.6	-13.8	8
2020 12 10	00:27	17,11	10,00	70,0	10,0	0
2023-12-10	00.27	17,45	10,33	70,7	-13,7	9
2023-12-09	12:27	17,48	10,33	71,0	-13,4	8
2023-12-09	00:27	17,46	10,33	70,8	-13,6	9
2023-12-08	12.27	17.48	10.33	71.0	-13.4	9
2023-12-00	12.27	17,40	10,55	71,0	-13,4	5
2023-12-08	00:27	17,52	10,33	71,4	-13,0	8
2023-12-07	12:27	17,57	10,33	71,9	-12,5	9
2023-12-07	00.22	17.5	10.33	71.2	-13.2	8
2020 12 07	10.27	17,0	10,00	71,2	10,2	0
2023-12-06	12:27	17,46	10,33	70,8	-13,6	8
2023-12-06	00:27	17,39	10,33	70,1	-14,3	9
2023-12-05	12:27	17.26	10.33	68.8	-15.6	8
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2023-12-05	00:27	17,15	10,33	/,/	-16,7	8
2023-12-04	12:27	17,13	10,33	67,5	-16,9	8
2023-12-04	00:27	17,08	10,33	67.0	-17.4	9
2023-12-02	10.07	17.00	10.00	67.1	_17 0	0
2023-12-03	12.2/	17,09	10,33	07,1	-17,3	°
2023-12-03	00:27	17,05	10,33	66,7	-17,7	8
2023-12-02	12:27	17,03	10,33	66,5	-17,9	8
2023-12-02	00.02	17 04	10 22	A 44	_17 Q	Q
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2023-12-01	12:27	17	10,33	66,3	-18,2	8
2023-12-01	00:27	17	10,33	66,3	-18,2	8
2023-11-30	12:27	16.99	10.33	66.2	-18.3	9
2022 11 20	00:27	16,00	10,00	65,2	10,0	0
2023-11-30	00:27	16,96	10,33	65,9	-18,6	9
2023-11-29	12:27	17	10,33	66,3	-18,2	8
2023-11-29	00:27	16.99	10.33	66.2	-18.3	8
2022 11 29	10.07	17.02	10.22	66 5	17.0	0
2023-11-26	12.27	17,03	10,33	66,5	-17,9	0
2023-11-28	00:27	17,03	10,33	66,5	-17,9	8
2023-11-27	12:27	16,98	10,33	66,1	-18,4	8
2023-11-27	00.22	16.98	10.33	66 1	-18.4	8
2020 11 27	10:27	10,00	10,00	00,1	10,4	0
2023-11-26	12:27	17	10,33	66,3	-18,2	8
2023-11-26	00:27	16,96	10,33	65,9	-18,6	8
2023-11-25	12:27	16.93	10.33	65.6	-18.9	8
2022 11 25	00.27	16.05	10.22	65.9	10 7	0
2023-11-23	00.27	10,33	10,35	05,0	-10,7	0
2023-11-24	12:27	16,93	10,33	65,6	-18,9	8
2023-11-24	00:27	16,97	10,33	66,0	-18,5	8
2023-11-23	12.27	16 98	10.33	66 1	-18 4	8
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2023-11-23	00:27	17,01	10,33	66,3	-18,1	8
2023-11-22	12:27	17,05	10,33	66,7	-17,7	8
2023-11-22	00:27	17.06	10.33	66.8	-17.6	8
2022 11 21	10:07	17.04	10.00	66.6	17.0	-
2023-11-21	12.27	17,04	10,33	00,0	-17,8	0
2023-11-21	00:27	17	10,33	66,3	-18,2	8
2023-11-20	12:27	16,98	10,33	66.1	-18.4	8
2023-11-20	00.02	16.00	10.00	66.0	_10 0	0
2020-11-20	00.27	10,99	10,33	00,2	-18,3	°
2023-11-19	12:27	16,98	10,33	66,1	-18,4	8
2023-11-19	00:27	17,01	10,33	66,3	-18,1	8
2023-11-18	12:27	17.04	10.33	66.6	-17.8	8
2022 11 10	00.07	17.00	10.00	60 F	17,0	
2023-11-18	00.27	17,03	10,33	00,5	-17,9	6
2023-11-17	12:27	16,99	10,33	66,2	-18,3	8
2023-11-17	00:27	16,97	10,33	66,0	-18,5	8
2023-11-16	12:27	16.95	10.33	65.8	-18 7	8
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2023-11-16	00:27	10,98	10,33	00,1	-18,4	8
2023-11-15	12:27	16,96	10,33	65,9	-18,6	8
2023-11-15	00:27	16,94	10,33	65,7	-18,8	8
2023-11-14	10.07	16.05	10.00	65.0	_10 7	p
2020-11-14	12.2/	10,95	10,33	03,0	-18,/	0
2023-11-14	00:27	16,94	10,33	65,7	-18,8	8
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2023-11-13 2023-11-12 2023-11-12 2023-11-12 2023-11-12 2023-11-11 2023-11-10 2023-11-09 2023-11-09 2023-11-08 2023-11-08 2023-11-07 2023-11-06 2023-11-06	00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27	16,93 16,93 16,91 16,91 16,94 16,93 16,92 16,93 16,93 16,93 16,83 16,84 16,84 16,84	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	65,6 65,4 65,4 65,7 65,6 65,5 65,3 65,3 65,6 65,6 65,6 65,0 65,0 65,1 64,7 64,7 64,7 64,7 64,7	-1-8,9 -18,9 -19,1 -19,1 -18,8 -18,9 -19,0 -19,2 -18,9 -18,9 -19,5 -19,4 -19,8 -19,8 -19,8 -19,8 -19,8 -19,8	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

2023-11-04	12:27	16,84	10,33	64,7	-19,8	8
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2022 11 02	00:27	16.90	10,00	65,3	10,2	
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2023-11-01	00:27	16,94	10,33	65,7	-18,8	8
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2022 10 20	00:27	16,00	10,00	65,6	10,0	
2023-10-30	00.27	10,92	10,33	65,5	-19,0	
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2023-10-28	12:27	16,97	10,33	66,0	-18,5	8
2023-10-28	00:27	16,92	10,33	65,5	-19,0	1
2023-10-27	12.27	16.94	10 33	65.7	-18.8	
2022 10 27	00:27	16,01	10,00	65,7	10,0	
2023-10-27	00.27	16,91	10,33	63,4	-19,1	
2023-10-26	12:27	16,89	10,33	65,2	-19,3	
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2023-10-24	00:27	16,82	10,33	64,5	-20,0	·'
2023-10-23	12:27	16,8	10,33	64,3	-20,2	
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2023-10-22	12:27	16,79	10,33	64,2	-20,3	<u> </u>
2023-10-22	00:27	16,8	10,33	64,3	-20,2	
2023-10-21	12:27	16.8	10.33	64.3	-20.2	
2023-10-21	00.27	16.00	10,00	6/ 6	_10.0	
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2023-10-20	00:27	16,82	10,33	64,5	-20,0	1
2023-10-19	12:27	16,82	10,33	64,5	-20,0	
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2023-10-18	12:27	16,8	10,33	64,3	-20,2	1
2023-10-18	00.27	16.84	10 33	64.7	-19.8	
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2023-10-17	12:27	16,8	10,33	64,3	-20,2	-
2023-10-17	00:27	16,82	10,33	64,5	-20,0	
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2023-10-15	12:27	16.73	10.33	63.6	-20.9	1
2023-10-15	00.22	16.73	10.33	63.6	-20.9	1
2022 10 14	12.27	16 72	10.22	62.5	21.0	
2023-10-14	12.27	10,72	10,33	63,5	-21,0	
2023-10-14	00:27	16,7	10,33	63,3	-21,2	1
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2023-10-12	00:27	16.78	10.33	64.1	-20.4	1
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2023-10-11	12.27	10,70	10,33	03,9	-20,0	
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2023-10-00	10.27	10,65	10,33	04,8	-19,7	
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2023-10-05	00.27	16 76	10 33	62.0	-20.6	
2023-10-04	12:27	16,70	10.00	£4.0	20,0	
2023-10-04	12.27	10,77	10,33	04,0	-20,5	
2023-10-04	00:27	16,//	10,33	64,0	-20,5	
2023-10-03	12:27	16,74	10,33	63,7	-20,8	<u>ا</u>
2023-10-03	00:27	16,77	10,33	64,0	-20,5	1
2023-10-02	12:27	16,79	10,33	64,2	-20,3	5
2023-10-02	00:27	16,78	10,33	64,1	-20,4	
2023-10-01	12:27	16.79	10.33	64.2	-20.3	1
2023-10-01	00.22	16 70	10 33	6/ 2	-20.3	
2023-00 20	10.27	16,75	10,00	G/ 1	20,3	
2020 00-00	00.07	10,70	10,00	04,1	-20;4	
2023-09-30	00:27	16,79	10,33	64,2	-20,3	
2023-09-29	12:27	16,78	10,33	64,1	-20,4	¹
2023-09-29	00:27	16,8	10,33	64,3	-20,2	
2023-09-28	12:27	16,76	10,33	63,9	-20,6	
2023-09-28	00:27	16,78	10,33	64,1	-20,4	
2023-09-27	12:27	16.8	10.33	64.3	-20.2	1
2023-09-27	00.27	16 70	10.00	6/ D	_20,2	
2023-00.26	10.27	16.0	10,00	6/ 0	20,0	
2023-03-20	12.27	10,8	10,33	04,3	-20,2	
2023-09-26	00:27	16,78	10,33	64,1	-20,4	
2023-09-25	12:27	16,73	10,33	63,6	-20,9	
2023-09-25	00:27	16,71	10,33	63,4	-21,1	
2023-09-24	12:27	16,72	10,33	63.5	-21.0	1
2023-09-24	00:27	16.68	10.33	63 1	-21 4	\$
2023-00 22	10.27	16,00	10.00	60,1	21,7	
2020-00-20	12.27	10,00	10,33	02,0	-21,7	
2023-03-23	00.27	10,02	10,33	02,5	-22,0	
2022 00 22	10.07	40.00	A / 1 · · · · ·		- 191 / 1	

2023-09-22						
	00:27	16,64	10,33	62,7	-21,8	8
2023-09-21	12:27	16,63	10,33	62,6	-21,9	8
2023-09-21	00:27	16,65	10,33	62,8	-21,7	8
2023-09-20	12:27	16,65	10,33	62,8	-21,7	8
2023-09-20	00.27	16 65	10.33	62.8	-21 7	8
2023-03-20	10:27	10,03	10,33	02,0	-21,7	0
2023-09-19	12:27	16,67	10,33	63,0	-21,5	8
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2023-09-18	12:27	16,71	10,33	63,4	-21,1	8
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2023-00-17	00.27	16.69	10.33	63.2	-21.3	8
2023-03-17	10:27	10,03	10,00	00,2	-21,3	0
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2023-09-16	00:27	16,69	10,33	63,2	-21,3	8
2023-09-15	12:27	16,72	10,33	63,5	-21,0	8
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2023-09-14	00:27	16,75	10,33	63,8	-20,7	8
2023-03-14	00.27	10,75	10,00	00,0	-20,7	0
2023-09-13	12:27	16,7	10,33	63,3	-21,2	8
2023-09-13	00:27	16,74	10,33	63,7	-20,8	8
2023-09-12	12:27	16,77	10,33	64,0	-20,5	8
2023-09-12	00:27	16,79	10,33	64,2	-20,3	8
2023-09-11	12:27	16.8	10.33	64.3	-20.2	8
2023-09-11	00.27	16.86	10 33	64.9	-19.6	8
2023-03-11	10:27	10,00	10,00	04,5	-13,5	0
2023-09-10	12:27	16,87	10,33	65,0	-19,5	8
2023-09-10	00:27	16,86	10,33	64,9	-19,6	8
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2023-09-08	12:27	16.93	10.33	65.6	-18.9	8
2023-00-00	00.07	16.00	10.00	65,0 65.0	_10.0	0
2023-03-00	10.27	10,90	10,33	00,9	-18,6	°
2023-09-07	12:27	1/	10,33	66,3	-18,2	8
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2023-09-06	12:27	16,98	10,33	66,1	-18,4	8
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2023-09-05	00.27	17.02	10 33	66.4	-18.0	8
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2023-09-04	12:27	16,99	10,33	66,2	-18,3	8
2023-09-04	00:27	16,98	10,33	66,1	-18,4	8
2023-09-03	12:27	16,96	10,33	65,9	-18,6	8
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2023-09-02	12.27	16 95	10.33	65.8	-18 7	8
2023-00-02	00:27	16,00	10,33	66,0	-18 5	8
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2022 08 27	00:27	17,01	10,00	66,0	10,1	0
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2023-08-26	00:27	17,01	10,33	66,3	-18,1	8
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2023-08-25	00:27	17,09	10,33	67.1	-17.3	8
2023-08-24	10.07	17 1	10 33	67.2	_17 0	Q
2023-00-24	12.27	17,1	10,00	67,2	-17,2	0
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2023-08-23	12:27	17,19	10,33	68,1	-16,3	8
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2023-08-08	00:27	17,16	10,33	67,8	-16,6	8
2023-08-07	12.27	17 15	10.33	67.7	-16.7	8
2023-06-07	12.27	17,15	10,33	07,7	-10,7	0
2023-08-07	00:27	17,16	10,33	67,8	-16,6	8
2023-08-06	12:27	17,16	10,33	67,8	-16,6	8
2023-08-06	00.22	17 15	10.33	67.7	-16.7	8
2023-00-00	00.27	17,15	10,55	07,7	-10,7	0
2023-08-05	12:27	17,16	10,33	67,8	-16,6	8
2023-08-05	00:27	17,12	10,33	67,4	-17,0	8
2023-08-04	12.27	17 16	10.33	67.8	-16.6	8
2022 08 04	00:27	17,10	10,00	67,6	16,0	0
2023-06-04	00.27	17,13	10,33	67,5	-10,9	0
2023-08-03	12:27	17,11	10,33	67,3	-17,1	8
2023-08-03	00:27	17,12	10,33	67,4	-17,0	8
2023-08-02	12.27	17.12	10.33	67.4	-17.0	8
2020 00 02	12.27	17,12	10,00	07,4	17,0	0
2023-08-02	00:27	1/,12	10,33	67,4	-17,0	8
2023-08-01	12:27	17,09	10,33	67,1	-17,3	8
2023-08-01	00:27	17.12	10.33	67.4	-17.0	8
2022 07 21	12:27	17.10	10.22	67.4	17.0	0
2023-07-31	12.27	17,12	10,33	07,4	-17,0	0
2023-07-31	00:27	17,11	10,33	67,3	-17,1	8
2023-07-30	12:27	17,08	10,33	67,0	-17,4	8
2023-07-30	00.22	17.13	10.33	67.5	-16.9	8
2023-07-30	00.27	17,15	10,55	07,3	-10,5	0
2023-07-29	12:27	17,12	10,33	67,4	-17,0	8
2023-07-29	00:27	17,11	10,33	67,3	-17,1	8
2023-07-28	12:27	17.12	10.33	67.4	-17 0	8
2020 07 20	00.07	17,12	10,00	07,4	17,0	
2023-07-28	00:27	1/,1	10,33	67,2	-1/,2	8
2023-07-27	12:27	17,11	10,33	67,3	-17,1	8
2023-07-27	00:27	17.11	10.33	67.3	-17.1	8
2022 07 20	10.07	17.11	10.00	67,0 67 A	17,1	
2023-07-26	12:27	17,12	10,33	٥/,4	-17,0	8
2023-07-26	00:27	17,13	10,33	67,5	-16,9	8
2023-07-25	12:27	17,12	10,33	67,4	-17,0	9
2023-07-25	00.22	17 10	10 22	67.4	_17.0	Q
2023-07-23	00.27	17,12	10,33	07,4	-17,0	0
2023-07-24	12:27	17,11	10,33	67,3	-17,1	8
2023-07-24	00:27	17,13	10,33	67,5	-16,9	8
2023-07-23	12:27	17.14	10.33	67.6	-16.8	8
2022 07 22	00:27	17.14	10.00	67.6	16.9	-
2023-07-23	00:27	17,14	10,33	67,6	-16,8	9
2023-07-22	12:27	17,11	10,33	67,3	-17,1	9
2023-07-22	00:27	17,13	10,33	67,5	-16,9	8
2023-07-21	12:27	17.13	10.33	67.5	-16.9	8
2023-07-21	12.27	17,15	10,55	07,3	-10,5	0
2023-07-21	00:27	17,11	10,33	67,3	-17,1	8
2023-07-20	12:27	17,11	10,33	67,3	-17,1	8
2023-07-20	00.22	17 1	10.33	67.2	-17.2	8
2020 07 20	10.07	17.10	10,00	07,2	17.0	°
2023-07-19	12:27	17,12	10,33	67,4	-17,0	8
2023-07-19	00:27	17,13	10,33	67,5	-16,9	8
2023-07-18	12:27	17.14	10.33	67.6	-16.8	8
2022 07 19	00.27	17.11	10.22	67.2	17.1	0
2023-07-18	00.27	17,11	10,33	07,3	-17,1	8
2023-07-17	12:27	1/,1	10,33	67,2	-17,2	8
2023-07-17	00:27	17,12	10,33	67,4	-17,0	8
2023-07-16	12.27	17 11	10.33	67.3	-17 1	8
2020 07 10	12:27	17,11	10,00	07,0	17,1	°
2023-07-16	00:27	17,08	10,33	67,0	-17,4	8
2023-07-15	12:27	17,08	10,33	67,0	-17,4	8
2023-07-15	00:27	17,13	10,33	67,5	-16,9	8
2023-07-14	10.07	17.00	10.33	67.1	-173	٩
2023-07-14	12.27	17,05	10,35	07,1	-17,5	5
2023-07-14	00:27	1/,1	10,33	67,2	-1/,2	8
2023-07-13	12:27	17,06	10,33	66,8	-17,6	8
2023-07-13	00:27	17.09	10.33	67 1	-17.3	8
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2023-07-12	12.27	17,07	10,33	00,9	-17,5	8
2023-07-12	00:27	17,08	10,33	67,0	-17,4	9
2023-07-11	12:27	17,1	10,33	67,2	-17,2	8
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2023-07-10	12:27	17,09	10,33	0/,1	-17,3	9
2023-07-10	00:27	17,08	10,33	67,0	-17,4	8
2023-07-09	12:27	17,1	10,33	67,2	-17,2	8
2023-07-09	00:27	17.08	10.33	67.0	-17.4	9
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2023-07-08 2023-07-07 2023-07-07 2023-07-06 2023-07-06 2023-07-05 2023-07-05 2023-07-04 2023-07-04 2023-07-03 2023-07-03 2023-07-02 2023-07-01 2023-07-01 2023-07-01 2023-06-30 2023-06-29 2023-06-28	12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27	17,1 17,07 17,04 17,03 17,05 17,03 17,03 17,03 17,04 17,03 17,04 17,02 16,99 16,97 17,02 17,02 17,02 17,03 17,07 17,14 17,14 17,14 17,14 17,12 17,24	10,33 10,33	67,2 66,9 66,6 66,7 66,7 66,5 66,5 66,5 66,5 66,3 66,4 66,4 66,4 66,2 66,0 66,4 66,2 66,3 66,4 66,4 66,5 66,3 66,4 66,5 66,5 66,5 66,5 66,5 66,5 66,5	-17,2 -17,5 -17,8 -17,9 -17,9 -17,9 -17,9 -17,9 -17,9 -17,9 -17,9 -17,9 -17,9 -17,9 -17,9 -18,1 -18,0 -18,3 -18,5 -18,0 -17,9 -17,5 -17,5 -17,5 -17,5 -17,5 -17,5 -17,5 -17,5 -17,8 -16,8 -16,2 -15,8 -15,8 -15,8 -15,8 -15,8 -15,8 -15,8 -15,8 -15,8 -15,8 -15,8 -15,8 -15,8 -15,9	8 8 8 9 9 9 8 8 8 8 8 9 9 9 9 9 9 9 9 9
2023-07-08 2023-07-07 2023-07-06 2023-07-06 2023-07-06 2023-07-05 2023-07-05 2023-07-04 2023-07-03 2023-07-03 2023-07-03 2023-07-02 2023-07-01 2023-07-01 2023-06-30 2023-06-29 2023-06-29 2023-06-28 2023-06-28	12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27	17,1 17,07 17,04 17,03 17,05 17,03 17,03 17,03 17,04 17,03 17,01 17,02 16,97 17,02 16,97 17,02 17,03 17,07 17,11 17,14 17,14 17,14 17,24 17,24	10,33 10,33	67,2 66,9 66,6 66,5 66,5 66,5 66,5 66,6 66,5 66,6 66,2 66,4 66,2 66,4 66,2 66,4 66,2 66,3 66,4 66,5 66,6 66,5 66,5 66,5 66,6 66,5 66,6 66,5 66,6 66,5 66,6 66,6 66,6 66,6 66,7 66,9 66,7 66,9 66,9 66,9 66,9 66,9 66,9 66,9 66,9 66,9 66,9 66,9 66,9 66,9 66,9 66,9 66,9 66,9 66,9 66,8	-17,2 -17,5 -17,8 -17,9 -17,9 -17,9 -17,9 -17,9 -17,8 -17,9 -18,1 -18,0 -18,3 -18,5 -18,0 -17,9 -18,1 -18,3 -18,5 -18,0 -17,9 -17,5 -17,1 -16,8 -16,3 -15,8 -16,2 -15,8	8 8 8 9 9 9 8 8 8 8 9 9 9 9 9 9 9 9 9 9

2023-06-27	00:27	17,25	10,33	68,7	-15,7	9
2023-06-26	12:27	17,2	10,33	68,2	-16,2	8
2023-06-26	00:27	17,22	10,33	68,4	-16,0	8
2023-06-25	12:27	17.23	10.33	68.5	-15.9	9
2023-06-25	00:27	17,20	10,00	68.6	-15.8	9
2023-06-25	00.27	17,24	10,33	00,0	-13,8	9
2023-06-24	12:27	17,22	10,33	68,4	-16,0	8
2023-06-24	00:27	17,24	10,33	68,6	-15,8	9
2023-06-23	12:27	17,26	10,33	68,8	-15,6	9
2023-06-23	00:27	17.25	10.33	68.7	-15.7	9
2023-06-22	12.27	17 25	10.33	68.7	-15 7	8
2020 00 22	00:27	17,20	10,00	60,0	15,7	0
2023-06-22	00.27	17,20	10,33	00,0	-13,6	9
2023-06-21	12:27	17,25	10,33	68,7	-15,/	9
2023-06-21	00:27	17,27	10,33	68,9	-15,5	8
2023-06-20	12:27	17,31	10,33	69,3	-15,1	8
2023-06-20	00:27	17.31	10.33	69.3	-15.1	9
2023-06-19	12.27	17 29	10.33	69.1	-15 3	9
2023-00-13	12.27	17,25	10,55	00,1	-10,0	3
2023-06-19	00.27	17,31	10,33	69,3	-15,1	0
2023-06-18	12:27	17,29	10,33	69,1	-15,3	9
2023-06-18	00:27	17,33	10,33	69,5	-14,9	9
2023-06-17	12:27	17,31	10,33	69,3	-15,1	8
2023-06-17	00.22	17.35	10.33	69.7	-14 7	9
2022 06 16	12:27	17,00	10,00	60,F	14.9	0
2023-00-10	12.27	17,33	10,33	69,5	-14,9	9
2023-06-16	00:27	17,39	10,33	70,1	-14,3	8
2023-06-15	12:27	17,41	10,33	70,3	-14,1	9
2023-06-15	00:27	17,45	10,33	70,7	-13,7	9
2023-06-14	12.27	17 /	10 22	70.0	_1/ 2	0
2023 06 14	00.27	17 4	10.00	70,2	-14,2	
2023-00-14	00.27	1/,4	10,33	/0,2	-14,2	8
2023-06-13	12:27	17,42	10,33	70,4	-14,0	9
2023-06-13	00:27	17,45	10,33	70,7	-13,7	8
2023-06-12	12:27	17,48	10,33	71,0	-13,4	9
2023-06-12	00:27	17.56	10.33	71 8	-12 A	q
2023-06 11	10.07	17 50	10.00	70.0	12,0	
2023-00-11	12.2/	17,38	10,33	/2,0	-12,4	8
2023-06-11	00:27	17,59	10,33	72,1	-12,3	8
2023-06-10	12:27	17,59	10,33	72,1	-12,3	9
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2023-06-09	00.22	17.43	10.33	70 5	-13.9	9
2020 00 00	10:27	17,40	10,00	70,0	10,0	0
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2023-06-08	00:27	17,42	10,33	70,4	-14,0	9
2023-06-07	12:27	17,42	10,33	70,4	-14,0	8
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2023-06-06	12:27	17.43	10.33	70.5	-13.9	9
2023-06-06	00.27	17.46	10.33	70.8	-13.6	0
2023-00-00	10:27	17,40	10,55	70,0	-13,0	5
2023-06-05	12.27	17,46	10,33	70,8	-13,6	9
2023-06-05	00:27	17,51	10,33	71,3	-13,1	9
2023-06-04	12:27	17,47	10,33	70,9	-13,5	8
2023-06-04	00:27	17,48	10,33	71,0	-13,4	8
2023-06-03	12:27	17.45	10.33	70.7	-13.7	8
2022 06 02	00:27	17,10	10,00	70,9	126,7	0
2023-00-03	10.27	17,40	10,33	70,8	-13,6	8
2023-06-02	12:27	17,43	10,33	/0,5	-13,9	8
2023-06-02	00:27	17,37	10,33	69,9	-14,5	9
2023-06-01	12:27	17,33	10,33	69,5	-14,9	8
2023-06-01	00:27	17,31	10,33	69,3	-15,1	8
2023-05-31	12.27	17 25	10.33	68.7	-15 7	8
2023-05 21	00.27	17.00	10.00	60,7	10,7	0
2023-03-31	10.27	17,20	10,33	00,8	-15,6	8
2023-05-30	12:27	17,24	10,33	68,6	-15,8	9
2023-05-30	00:27	17,21	10,33	68,3	-16,1	8
2023-05-29	12:27	17,2	10,33	68,2	-16,2	8
2023-05-29	00:27	17,18	10,33	68.0	-16.4	8
2023-05-28	12.27	17 17	10 22	67 0	_16 5	0
2023-05 20	00.27	17.15	10.00	57,5	10,5	
2023-03-20	10.27	17,15	10,33	0/,/	-16,7	8
2023-05-27	12:27	17,18	10,33	68,0	-16,4	8
2023-05-27	00:27	17,19	10,33	68,1	-16,3	8
2023-05-26	12:27	17,2	10,33	68,2	-16,2	8
2023-05-26	00:27	17,2	10,33	68,2	-16,2	9
2023-05-25	12:27	17.22	10.33	68.4	-16.0	8
2023-05-25	00.22	17 24	10 22	68.6	_15,0 _15.0	۵ ۵
2020 00-20	10.07	47.00	10,33	00,0	-13,8	-
2023-05-24	12:27	17,26	10,33	68,8	-15,6	8
2023-05-24	00:27	17,3	10,33	69,2	-15,2	8
2023-05-23	12:27	17,32	10,33	69,4	-15,0	8
2023-05-23	00:27	17,48	10,33	71,0	-13,4	8
2023-05-22	12:27	17 62	10.33	72 /	-12 0	R
2023-05 22	00.27	17.02	10.00	70.0	12,0	
2023-03-22	10.27	17,0	10,33	72,2	-12,2	8
2023-05-21	12:27	17,61	10,33	/2,3	-12,1	8
2023-05-21	00:27	17,6	10,33	72,2	-12,2	8
2023-05-20	12:27	17,6	10,33	72,2	-12,2	8
2023-05-20	00:27	17,62	10,33	72.4	-12.0	8
2023-05-19	12.27	17.62	10 22	70 /	_12,0	c
2020-00-10	12.2/	17,02	10,33	72,4	-12,0	
2023-05-19	00:27	17,63	10,33	/2,5	-11,9	8
2023-05-18	12:27	17,63	10,33	72,5	-11,9	8
2023-05-18	00:27	17,6	10,33	72,2	-12,2	8
2023-05-17	12:27	17.59	10.33	72.1	-12.3	8
2023-05-17	00.22	17 56	10.00	71 0	_12,0	
2023-03-17	10.27	17,36	10,33	/1,8	-12,6	8
2023-05-16	12:27	17,6	10,33	/2,2	-12,2	8
2023-05-16	00:27	17,57	10,33	71,9	-12,5	8
2023-05-15	12:27	17,58	10,33	72,0	-12,4	8
2023-05-15	00:27	17.61	10.33	72.3	-12.1	8
		,51	20,000			·~

0000 05 14	10.07	17.04	10.00	70.0	11.0	0
2023-05-14	12:27	17,64	10,33	/2,6	-11,8	8
2023-05-14	00:27	17,66	10,33	72,8	-11,6	8
2023-05-13	12:27	17,66	10,33	72,8	-11,6	8
2023-05-13	00:27	17.68	10.33	73.0	-11.4	8
2020 00 10	10:27	17,00	10,00	70,0	11,1	0
2023-05-12	12:27	17,67	10,33	72,9	-11,5	8
2023-05-12	00:27	17,65	10,33	72,7	-11,7	9
2023-05-11	12:27	17.65	10.33	72.7	-11.7	8
2022 05 11	00:27	17.67	10.22	72.0	11.5	0
2023-03-11	00.27	17,07	10,33	72,9	-11,5	0
2023-05-10	12:27	17,65	10,33	72,7	-11,7	8
2023-05-10	00:27	17,67	10,33	72,9	-11,5	8
2023-05-09	12:27	17 72	10.33	73 /	-11.0	8
2023-03-03	12.27	17,72	10,00	75,4	-11,0	0
2023-05-09	00:27	1/,//	10,33	/3,9	-10,5	8
2023-05-08	12:27	17,78	10,33	74,0	-10,4	8
2023-05-08	00.22	17 78	10.33	74.0	-10.4	8
2020 00 00	10:27	17,70	10,00	74,0	10,4	0
2023-05-07	12:27	17,76	10,33	/3,8	-10,6	8
2023-05-07	00:27	17,76	10,33	73,8	-10,6	8
2023-05-06	12:27	17.77	10.33	73.9	-10.5	8
2022 05 06	00:27	17.76	10.22	72.0	10.6	0
2023-05-06	00:27	17,76	10,33	/3,8	-10,6	8
2023-05-05	12:27	17,76	10,33	73,8	-10,6	8
2023-05-05	00:27	17,77	10,33	73,9	-10,5	8
2022 05 04	10.07	1775	10.00	707	10.7	-
2023-05-04	12:27	1/,/5	10,33	/3,/	-10,7	8
2023-05-04	00:27	17,76	10,33	73,8	-10,6	8
2023-05-03	12:27	17.77	10.33	73.9	-10.5	8
2022 05 02	00.27	17.01	10.22	74.2	10.1	0
2023-03-03	00.27	17,81	10,33	/4,3	-10,1	8
2023-05-02	12:27	17,81	10,33	74,3	-10,1	8
2023-05-02	00:27	17,76	10,33	73,8	-10,6	8
2023-05-01	12.22	17 76	10.22	72 Q	_10 G	Q
0000 05 01	12.27	17,70	10,00	, 3,0	10,0	-
2023-05-01	00:27	1/,79	10,33	/4,1	-10,3	8
2023-04-30	12:27	17,79	10,33	74,1	-10,3	8
2023-04-30	00:27	17.78	10.33	74.0	-10.4	8
2022 04 00	10.07	17 70	10,00	744	10,4	0
2023-04-29	12:27	17,79	10,33	/4,1	-10,3	8
2023-04-29	00:27	17,81	10,33	74,3	-10,1	8
2023-04-28	12:27	17.81	10.33	74.3	-10.1	8
2022 04 29	00.27	17.94	10.22	74.6	0.9	0
2023-04-28	00.27	17,84	10,33	74,0	-9,8	8
2023-04-27	12:27	17,85	10,33	74,7	-9,7	8
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2023-04-26	12.27	17.88	10.33	75.0	-9.4	8
2020 04 20	12.27	17,00	10,00	70,0	0,4	0
2023-04-26	00:27	17,88	10,33	/5,0	-9,4	8
2023-04-25	12:27	17,87	10,33	74,9	-9,5	8
2023-04-25	00.22	17.86	10.33	74.8	-9.6	8
2020 04 20	10:27	17,00	10,00	74,0	5,0	0
2023-04-24	12:27	17,89	10,33	/5,1	-9,3	8
2023-04-24	00:27	17,91	10,33	75,3	-9,1	8
2023-04-23	12:27	17.9	10.33	75.2	-9.2	8
2023-04-23	00.22	17.9	10.33	75.2	-9.2	8
2023-04-23	00.27	17,5	10,33	75,2	-5,2	0
2023-04-22	12:27	17,92	10,33	75,4	-9,0	8
2023-04-22	00:27	17,91	10,33	75,3	-9,1	8
2023-04-21	12.27	17.93	10.33	75.5	-8.9	8
0000 04 01	00:07	17.00	10.00	75.4		-
2023-04-21	00:27	17,92	10,33	/5,4	-9,0	8
2023-04-20	12:27	17,9	10,33	75,2	-9,2	8
2023-04-20	00:27	17.92	10.33	75.4	-9.0	8
2022 04 10	10.07	17.02	10.22	75.5	9.0	0
2023-04-19	12.27	17,93	10,33	75,5	-8,9	8
2023-04-19	00:27	17,93	10,33	75,5	-8,9	8
2023-04-18	12:27	17,92	10,33	75,4	-9,0	8
2023-04-18	00.22	17.9	10.33	75.2	-9.2	8
2020 04 10	00.27	17,0	10,00	70,2	0,2	0
2023-04-1/	12:27	17,88	10,33	/5,0	-9,4	8
2023-04-17	00:27	17,91	10,33	75,3	-9,1	8
2023-04-16	12:27	17.91	10.33	75.3	-9.1	8
2020 04 40	00.07	47.00	10,00	70,0	0,1	~
2023-04-16	00:27	17,88	10,33	/5,0	-9,4	8
2023-04-15	12:27	17,88	10,33	75,0	-9,4	8
2023-04-15	00:27	17,88	10,33	75,0	-9,4	8
2023-04-14	12.27	17 9	10.33	75.2	-9.2	R
2022 04 14	00.07	17,0	10,00	75,2	-3,2	
2023-04-14	00:27	17,89	10,33	/5,1	-9,3	8
2023-04-13	12:27	17,88	10,33	75,0	-9,4	8
2023-04-13	00:27	17,93	10,33	75,5	-8,9	8
2023-04-12	12.27	17 93	10.33	75.5	_R Q	R
2020-04-12	12.27	17,53	10,00	70,0	-8,9	0
2023-04-12	00:27	17,94	10,33	/5,6	-8,8	8
2023-04-11	12:27	17,9	10,33	75,2	-9,2	8
2023-04-11						8
2023-04-10	00:27	17,94	10,33	75,6	-8,8	0
	00:27	17,94 17 QR	10,33	75,6	-8,8 A	۵
0000 04 10	00:27	17,94 17,98	10,33 10,33	75,6	-8,8	8
2023-04-10	00:27 12:27 00:27	17,94 17,98 17,98	10,33 10,33 10,33	75,6 76,0 76,0	8,8 8,4 8,4	8
2023-04-10 2023-04-09	00:27 12:27 00:27 12:27	17,94 17,98 17,98 17,96	10,33 10,33 10,33 10,33 10,33	75,6 76,0 76,0 75,8		8
2023-04-10 2023-04-09 2023-04-09	00:27 12:27 00:27 12:27 00:27	17,94 17,98 17,98 17,98 17,96 17,99	10,33 10,33 10,33 10,33 10,33	75,6 76,0 76,0 75,8 76,1	-8,8 -8,4 -8,4 -8,6 -8,6	8 8 8 8 8
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2023-04-10 2023-04-09 2023-04-09 2023-04-08 2023-04-08 2023-04-08 2023-04-06 2023-04-06 2023-04-05 2023-04-05 2023-04-05	00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27	17,94 17,98 17,98 17,96 17,99 18 17,99 17,95 17,97 17,97 17,96 17,96 17,96 17,99	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	75,6 76,0 76,0 75,8 76,1 76,2 76,1 75,9 75,9 75,9 75,9 75,8 75,8 75,8 75,8 75,8		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
2023-04-10 2023-04-09 2023-04-09 2023-04-08 2023-04-08 2023-04-07 2023-04-06 2023-04-06 2023-04-06 2023-04-05 2023-04-04 2023-04-04	00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27 12:27 00:27	17,94 17,98 17,98 17,99 17,99 17,99 17,99 17,95 17,97 17,97 17,96 17,96 17,96 17,96 17,96	$\begin{array}{r} 10.33\\ 10$	75,6 76,0 76,0 76,1 76,1 76,2 76,1 75,7 75,9 75,9 75,9 75,8 75,8 75,8 75,8 75,8 75,8 75,8		8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
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2023-04-01	00:27	17.88	10.33	75.0	-9.4	8
2022 02 21	10:07	17.96	10.22	74.9	0.6	0
2023-03-31	12.27	17,80	10,33	/4,0	-9,6	0
2023-03-31	00:27	17,87	10,33	74,9	-9,5	8
2023-03-30	12:27	17.9	10.33	75.2	-9.2	8
2022 02 20	00:07	17.80	10.22	75.1	-,-	-
2023-03-30	00.27	17,69	10,33	/5,1	-9,3	0
2023-03-29	12:27	17,94	10,33	75,6	-8,8	8
2023-03-29	00.22	17.94	10 33	75.6	-8.8	8
2023-03-23	00.27	17,34	10,55	73,0	-0,8	0
2023-03-28	12:27	17,93	10,33	/5,5	-8,9	8
2023-03-28	00:27	17,9	10,33	75,2	-9,2	8
2022 02 27	10.07	17.01	10.22	75.2	0.1	0
2023-03-27	12.27	17,91	10,33	/5,3	-9,1	0
2023-03-27	00:27	17,89	10,33	75,1	-9,3	8
2023-03-26	12:27	17.92	10.33	75.4	-9.0	8
2020 00 20	12127	17,02	10,00	76,1		0
2023-03-26	00:27	17,89	10,33	/5,1	-9,3	8
2023-03-25	12:27	17,9	10,33	75,2	-9,2	8
2023-03-25	00.22	17.91	10 33	75.3	-9.1	8
2020 00 20	00.27	17,01	10,00	, 0,0	0,1	
2023-03-24	12:27	17,91	10,33	/5,3	-9,1	8
2023-03-24	00:27	18,01	10,33	76,3	-8,1	8
2022 02 22	10.07	19.05	10.22	76 7	77	0
2023-03-23	12.27	18,05	10,33	70,7	-7,7	0
2023-03-23	00:27	18,06	10,33	76,8	-7,6	8
2023-03-22	12:27	18.1	10.33	77.2	-7.3	8
2022 02 02	00.07	10.10	10.00		7,0	
2023-03-22	00:27	18,13	10,33	//,5	-7,0	8
2023-03-21	12:27	18,18	10,33	78,0	-6,5	8
2023-03-21	00.32	18 10	10 22	78 1	-6.1	Q
2020 00 21	00.27	10,10	10,00	,0,1	-0,4	- -
2023-03-20	12:27	18,21	10,33	/8,3	-6,2	8
2023-03-20	00:27	18,22	10,33	78,4	-6,1	8
2022-02-10	10.07	19.04	10.00	70 6	EQ	0
2023-03-19	12.2/	10,24	10,33	/ð,b	-5,9	8
2023-03-19	00:27	18,2	10,33	78,2	-6,3	8
2023-03-18	12:27	18.23	10.33	78.5	-6.0	8
2022 02 10	00:07	10.00	10.00	70.5	0,0	-
2023-03-16	00.27	16,23	10,33	/6,5	-6,0	0
2023-03-17	12:27	18,26	10,33	78,8	-5,7	8
2023-03-17	00.22	18.28	10 33	79.0	-5 5	8
2020 00 17	10.27	10,20	10,00	70,0	5,5	0
2023-03-16	12:27	18,27	10,33	/8,9	-5,6	8
2023-03-16	00:27	18,24	10,33	78,6	-5,9	8
2022 02 15	10.07	19.26	10.22	70 0	57	0
2023-03-13	12.27	18,20	10,33	/8,8	-5,7	0
2023-03-15	00:27	18,23	10,33	78,5	-6,0	8
2023-03-14	12:27	18.22	10.33	78.4	-6.1	8
0000 00 14	00:07	10.00	10.00	70.4	-,-	-
2023-03-14	00.27	16,22	10,33	/0,4	-0,1	0
2023-03-13	12:27	18,23	10,33	78,5	-6,0	8
2023-03-13	00.22	18.28	10.33	79.0	-5.5	8
2020 00 10	00.27	10,20	10,00	70,0	0,0	
2023-03-12	12:27	18,31	10,33	/9,3	-5,2	8
2023-03-12	00:27	18,33	10,33	79,5	-5,0	8
2022 02 11	10.07	10.2	10.22	70.2	5.2	0
2023-03-11	12.27	16,5	10,33	79,2	-0,0	0
2023-03-11	00:27	18,31	10,33	79,3	-5,2	8
2023-03-10	12:27	18.35	10.33	79.7	-4.8	8
0000 00 10	00.07	10.04	10.00	70.0	10	0
2023-03-10	00:27	18,34	10,33	/9,6	-4,9	8
2023-03-09	12:27	18,36	10,33	79,8	-4,7	8
2023-03-09	00.52	18 36	10 33	79.8	-4.7	R
2020 00 00		10,00	10,00	, 5,0	-4,7	
2023-03-08	12:27	18,33	10,33	79,5	-5,0	8
2023-03-08	00:27	18,31	10,33	79,3	-5,2	8
2022 02 07	10.07	10.00	10.00	70.0	==	0
2023-03-07	12:27	16,28	10,33	/9,0	-5,5	8
2023-03-07	00:27	18,36	10,33	79,8	4,7	8
2023-03-06	12:27	18.4	10.33	80.2	-4.3	8
2022 02 06	00.07	10.00	10.00	00.1	·,-	0
2023-03-06	00:27	18,39	10,33	80,1	-4,4	8
2023-03-05	12:27	18,41	10,33	80,3	-4,2	8
2023-03-05	00:27	18.43	10.33	80.5	-4.0	8
2022 02 04	10.07	10.40	10.00	20,0	.,	
2023-03-04	12:27	18,46	10,33	80,8	-3,7	8
2023-03-04	00:27	18,46	10,33	80,8	-3,7	8
2023-03-03	12.27	18.5	10.33	81 1	-3.3	8
2020 00 00	00.07	10,0	10,00	01,1	-5,5	-
2023-03-03	00:27	18,55	10,33	81,6	-2,8	8
2023-03-02	12:27	18,56	10,33	81,7	-2,7	8
2023-03-03	00.32	12 6	10 22	go 1	-0 S	Q
2020-00-02	00.27	10,0	10,33	02,1	-2,5	
2023-03-01	12:27	18,6	10,33	82,1	-2,3	8
2023-03-01	00:27	18.62	10.33	82.3	-2.1	8
2022 02 20	10.07	10.00	10.00	00 7	-,-	0
2023-02-28	12:27	10,00	10,33	62,7	-1,/	8
2023-02-28	00:27	18,61	10,33	82,2	-2,2	8
2023-02-27	12.27	18 88	10.33	84.9	0.5	8
2020 02 27	00.07	10,00	10,00	04.0	0,0	- -
2023-02-27	00:27	18,58	10,33	81,9	-2,5	8
2023-02-26	12:27	18,6	10,33	82,1	-2,3	8
2023-02-26	00.32	18 67	10 22	82.5	_0 1	Q
2020-02-20	00.27	10,02	10,33	02,3	-2,1	•
2023-02-25	12:27	18,63	10,33	82,4	-2,0	8
2023-02-25	00:27	18.7	10.33	83.1	-1.3	8
2022 02 24	10.07	10.04	10.00	00 5	0.1	0
2023-02-24	12:27	19,04	10,33	00,0	2,1	8
2023-02-24	00:27	18,78	10,33	83,9	-0,5	8
2022 02 22	22.27	10.04	10.22	94.5	0.1	0

Uppdragsnamn	Uppdragsnummer	Mätpunkt	Installationsdjup	Installationsdatum	Avläsningstidpunkt		Serienummer					
BRF	Sidney	PVT	15m	15,0	2	2023-02-23	2024-03-11	10:44	30617	1012,5	1000	9,81

Maxvärde Minvärde 177.6946613 123.4625288

Datum Klockslag Portryck Lufttryck Portryck [kPa] Excessive pore pressure [kPa] Temp(°C) 2024-03-11 00:02 24.32 10.33 138.96 4.86698625 11 2024-03-10 12.02 24.31 10.33 138.86 4 76766 11 2024-03-10 00:02 24,33 10,33 139,06 4.9663125 11 2024-03-09 12:02 24,33 10,33 139,06 4,9663125 11 2024-03-09 00:02 24,33 10,33 139,06 4,9663125 11 11 2024-03-08 12:02 24,33 10,33 139,06 4,9663125 2024-03-08 00:02 24,34 10.33 139.16 5,06563875 11 2024-03-07 12:02 24,35 10,33 139,26 5.164965 11 2024-03-07 00:02 24,35 10,33 139,26 5,164965 11 2024-03-06 12:02 24,33 10,33 139,06 4,9663125 11 2024-03-06 24,32 11 00:02 10,33 138,96 4,86698625 2024-03-05 12:02 24.31 138.86 4,76766 11 10.33 2024-03-05 00.05 24 29 10.33 138.66 4 5690075 11 2024-03-04 12:02 24,29 10.33 138.66 4.5690075 11 2024-03-04 00:02 24,27 10,33 138,46 4,370355 11 2024-03-03 12:02 24,26 10,33 138,36 4,27102875 11 11 2024-03-03 00:02 24,26 10,33 138,36 4,27102875 2024-03-02 12:02 24.26 10.33 138.36 4.27102875 11 2024-03-02 00:02 24,25 10,33 138.26 4.1717025 11 2024-03-01 12:02 24,25 10,33 138,26 4,1717025 11 2024-03-01 00:02 24,26 10,33 138,36 4,27102875 11 24,27 138,46 11 2024-02-29 12:02 10,33 4,370355 24.3 2024-02-29 00:02 138.76 4.66833375 11 10.33 2024-02-28 12.02 24.3 10.33 138 76 4 66833375 11 2024-02-28 00:02 24,29 10,33 138,66 4,5690075 11 2024-02-27 24,25 138,26 4,1717025 11 12:02 10,33 2024-02-27 00:02 24,24 10,33 138,16 4,07237625 11 24.18 11 2024-02-26 12:02 10.33 137.57 3.47641875 2024-02-26 00:02 24,17 10.33 137.47 3.3770925 11 2024-02-25 12:02 24.17 10,33 137.47 3.3770925 11 2024-02-25 00:02 24,16 10,33 137,37 3,27776625 11 2024-02-24 12:02 24,14 10,33 137,17 3,07911375 11 2024-02-24 00:02 24,14 10,33 137,17 3,07911375 11 2024-02-23 12:02 24,12 10.33 136,97 2,88046125 11 2024-02-23 00.05 24 12 10.33 136.97 2 88046125 11 2024-02-22 12:02 24,13 10,33 137,07 2,9797875 11 2024-02-22 00:02 24,13 10,33 137,07 2,9797875 11 24,13 2,9797875 11 2024-02-21 12:02 10,33 137,07 2024-02-21 00:02 24.13 137.07 2.9797875 11 10.33 2024-02-20 12.02 24 13 10.33 137 07 2 9797875 11 2024-02-20 00:02 24,12 10,33 136,97 2,88046125 11 2024-02-19 12:02 24,11 10,33 136,87 2,781135 11 2024-02-19 00:02 24,1 10,33 136,77 2,68180875 11 2024-02-18 12:02 24,11 10,33 136,87 2,781135 11 2024-02-18 00:02 24.11 10.33 136.87 2.781135 11 2024-02-17 12:02 24,09 10,33 136,67 2,5824825 11 2024-02-17 00:02 24,07 10,33 136,47 2,38383 11 2024-02-16 12:02 24,06 10,33 136,37 2,28450375 11 2024-02-16 00:02 24,06 10,33 136,37 2,28450375 11 24.06 11 2024-02-15 12:02 10.33 136.37 2.28450375 2024-02-15 00.05 24 04 10.33 136 18 2 08585125 11 2024-02-14 12:02 24,04 10.33 136.18 2.08585125 11 00:02 24,02 135,98 1,88719875 11 2024-02-14 10,33 2024-02-13 12:02 24,02 10,33 135,98 1,88719875 11 00:02 2024-02-13 24 10,33 135,78 1,68854625 11 2024-02-12 12:02 23,98 10.33 135.58 1,48989375 11 2024-02-12 00:02 23,97 10,33 135,48 1,3905675 11 2024-02-11 12:02 23,96 10,33 135,38 1,29124125 11 11 2024-02-11 00:02 23,95 10,33 135,28 1,191915 12:02 23,94 1,09258875 11 2024-02-10 10,33 135,18 2024-02-10 00:02 23,92 10,33 134,98 0.89393625 11 2024-02-09 12.02 23.92 10.33 134.98 0 89393625 11 2024-02-09 00:02 23,9 10.33 134.79 0.69528375 11 12:02 134,79 0,69528375 11 2024-02-08 23,9 10,33 11 2024-02-08 00:02 23,88 10,33 134,59 0,49663125 2024-02-07 12:02 23.88 10.33 134.59 0.49663125 11 2024-02-07 00:02 23.85 10.33 134 29 0.1986525 11 2024-02-06 12:02 23,84 10,33 134,19 0,09932625 11 2024-02-06 00:02 23,85 10,33 134,29 0,1986525 11 2024-02-05 12:02 23,83 10,33 134,09 11 0,09932625 11 2024-02-05 00:02 23,84 10,33 134,19 2024-02-04 12:02 23,83 10.33 134.09 0 11 2024-02-04 00:02 23,83 10,33 134,09 ٥ 11 11 2024-02-03 12:02 23,83 10,33 134,0 2024-02-03 00:02 23,82 10,33 133,99 -0,09932625 11 Hydrostatiskt portryck

134.0904

2024-02-02	12:02	23,82	10,33	133,99	-0,09932625	11
2024-02-02	00:02	23,82	10,33	133,99	-0,09932625	11
2024-02-01	12:02	23,79	10,33	133,69	-0,397305	11
2024-02-01	00.02	23 79	10.33	133.69	-0.397305	11
2024-02-01	10:02	20,70	10,00	100,00	-0,557505	11
2024-01-31	12:02	23,79	10,33	133,69	-0,397305	11
2024-01-31	00:02	23,79	10,33	133,69	-0,397305	11
2024-01-30	12:02	23,8	10,33	133,79	-0,29797875	11
2024-01-30	00:02	23.82	10.33	133.99	-0.09932625	11
2024-01-29	12.02	23 77	10.33	133 /0	-0 5959575	11
2024-01-29	12.02	23,77	10,33	100,49	-0,3939373	11
2024-01-29	00:02	23,77	10,33	133,49	-0,5959575	11
2024-01-28	12:02	23,78	10,33	133,59	-0,49663125	11
2024-01-28	00:02	23,77	10,33	133,49	-0,5959575	11
2024-01-27	12:02	23.77	10.33	133.49	-0.5959575	11
2024-01-27	00.02	23 78	10.33	133 50	-0.49663125	11
2024-01-27	00.02	20,70	10,00	100,00	-0,45005125	11
2024-01-26	12:02	23,77	10,33	133,49	-0,5959575	11
2024-01-26	00:02	23,78	10,33	133,59	-0,49663125	11
2024-01-25	12:02	23,78	10,33	133,59	-0,49663125	11
2024-01-25	00:02	23,78	10,33	133,59	-0,49663125	11
2024-01-24	12.02	23.76	10.33	133.40	-0 69528375	11
2024 01 24	00:02	20,70	10,00	122,40	0 5050575	11
2024-01-24	00.02	23,77	10,33	133,49	-0,5959575	11
2024-01-23	12:02	23,78	10,33	133,59	-0,49663125	11
2024-01-23	00:02	23,79	10,33	133,69	-0,397305	11
2024-01-22	12:02	23,79	10,33	133,69	-0,397305	11
2024-01-22	00.02	23 79	10.33	133.69	-0 397305	11
2027 01 22	10:02	20,70	10,00	100,00	0,007000	11
2024-01-21	12.02	23,81	10,33	133,89	-0,1986525	11
2024-01-21	00:02	23,81	10,33	133,89	-0,1986525	11
2024-01-20	12:02	23,82	10,33	133,99		11
2024-01-20	00:02	23,83	10,33	134,09	0	11
2024-01-19	12.02	23.84	10.33	134 19	0.09932625	11
202/ 01 10	00.02	22,04	10.00	12/ 10	0.000202020	11
2024-01-19	00.02	23,04	10,33	104,19	0,09932025	11
2024-01-18	12:02	23,84	10,33	134,19	0,09932625	11
2024-01-18	00:02	23,85	10,33	134,29	0,1986525	11
2024-01-17	12:02	23,86	10,33	134,39	0,29797875	11
2024-01-17	00:02	23.87	10.33	134.49	0.397305	11
2024 01 16	12.02	22,07	10.22	124.40	0 207205	11
2024-01-10	12.02	23,07	10,33	134,43	0,397303	11
2024-01-16	00.02	23,88	10,33	134,59	0,49663125	11
2024-01-15	12:02	23,88	10,33	134,59	0,49663125	11
2024-01-15	00:02	23,89	10,33	134,69	0,5959575	11
2024-01-14	12:02	23,9	10,33	134,79	0,69528375	11
2024-01-14	00.02	23 91	10.33	134.89	0 79461	11
2024 01 14	10:02	20,01	10,00	104,00	0,00000	11
2024-01-13	12.02	23,93	10,33	135,06	0,9932823	11
2024-01-13	00:02	23,93	10,33	135,08	0,9932625	11
2024-01-12	12:02	23,95	10,33	135,28	1,191915	11
2024-01-12	00:02	23,95	10,33	135,28	1,191915	11
2024-01-11	12:02	23.96	10.33	135.38	1.29124125	11
2024 01 11	00:02	22.05	10.22	125.20	1 101015	11
2024-01-11	00.02	23,95	10,33	135,28	1,191915	11
2024-01-10	12:02	23,96	10,33	135,38	1,29124125	11
2024-01-10	00:02	23,96	10,33	135,38	1,29124125	11
2024-01-09	12:02	23,96	10,33	135,38	1,29124125	11
2024-01-09	00:02	23,95	10,33	135,28	1,191915	11
2024-01-08	12.02	23.96	10.33	135.38	1 29124125	11
2024 01 08	00:02	20,00	10,00	105,00	1 101015	11
2024-01-08	00.02	23,95	10,33	133,26	1,191915	11
2024-01-07	12:02	23,93	10,33	135,08	0,9932625	
2024-01-07	00:02	00.00				11
2024-01-06	12:02	23,92	10,33	134,98	0,89393625	11 11
2024-01-06	12.02	23,92	10,33 10,33	134,98 134,79	0,89393625 0,69528375	11 11 11
2024 01 00	00:02	23,92 23,9 23,88	10,33 10,33 10,33	134,98 134,79 134.59	0,89393625 0,69528375 0,49663125	11 11 11 11
2024-01-00	00:02	23,92 23,9 23,88 23,88	10,33 10,33 10,33 10,33	134,98 134,79 134,59 134,29	0,89393625 0,69528375 0,49663125 0,2079725	11 11 11 11 11
2024-01-05	00:02	23,92 23,9 23,88 23,86	10,33 10,33 10,33 10,33 10,33	134,98 134,79 134,59 134,39	0,89393625 0,69528375 0,49663125 0,29797875	11 11 11 11 11
2024-01-05 2024-01-05 2024-01-05	00:02 12:02 00:02	23,92 23,9 23,88 23,86 23,85	10,33 10,33 10,33 10,33 10,33	134,98 134,79 134,59 134,39 134,29	0,89393625 0,69528375 0,49663125 0,29797875 0,1986525	11 11 11 11 11 11
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2024-01-05 2024-01-05 2024-01-04 2024-01-04 2024-01-04	00:02 00:02 12:02 00:02 12:02 00:02	23,92 23,9 23,88 23,86 23,85 23,83 23,83 23,82	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	134,98 134,79 134,59 134,39 134,29 134,09 133,99	0,89393625 0,69528375 0,49663125 0,29797875 0,1986525 0 0 -0,09932625	11 11 11 11 11 11 11 11 11
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2024-01-05 2024-01-05 2024-01-05 2024-01-04 2024-01-04 2024-01-03 2024-01-03 2024-01-02	12:02 00:02 12:02 00:02 12:02 00:02 12:02 00:02 12:02 00:02	23,92 23,9 23,88 23,86 23,85 23,83 23,82 23,82 23,8 23,8 23,8 23,8	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	134,98 134,79 134,59 134,39 134,29 134,09 133,99 133,79 133,79 133,79	0,89393625 0,69528375 0,49663125 0,29797875 0,1986525 0 -0,09932625 -0,29797875 -0,29797875 -0,29797875 -0,29797875	11 11 11 11 11 11 11 11 11 11 11 11
2024-01-05 2024-01-05 2024-01-05 2024-01-04 2024-01-04 2024-01-03 2024-01-03 2024-01-02 2024-01-02	12:02 00:02 12:02 00:02 12:02 00:02 12:02 00:02 12:02 00:02	23,92 23,9 23,88 23,86 23,85 23,83 23,82 23,8 23,8 23,8 23,8 23,8	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	134,98 134,79 134,59 134,39 134,29 133,99 133,79 133,79 133,79	0,89393625 0,69528375 0,49663125 0,29797875 0,1986525 0 -0,09932625 -0,29797875 -0,29797875 -0,29797875 -0,29797875 -0,29797875	11 11 11 11 11 11 11 11 11 11 11 11 11
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2023-12-22	00.02	23,78	10,33	133,59	-0,49663125	11
2023-12-21	12:02	23,78	10,33	133,59	-0,49663125	11
2023-12-21	00:02	23,8	10,33	133,79	-0,29797875	11
2023-12-20	12:02	23.8	10.33	133.79	-0.29797875	11
2023-12-20	00.02	23.8	10.33	133 70	-0 29797875	11
2023-12-20	10:02	20,0	10,00	100,70	-0,23737073	11
2023-12-19	12:02	23,8	10,33	133,79	-0,29797875	11
2023-12-19	00:02	23,8	10,33	133,79	-0,29797875	11
2023-12-18	12:02	23,81	10,33	133,89	-0,1986525	11
2023-12-18	00:02	23.81	10.33	133.89	-0.1986525	11
2023-12-17	12.02	23.81	10.33	133.80	-0 1986525	11
2023-12-17	12.02	20,01	10,00	100,00	-0,1000323	11
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2023-12-16	12:02	23,82	10,33	133,99	-0,09932625	11
2023-12-16	00:02	23,81	10,33	133,89	-0,1986525	11
2023-12-15	12:02	23,83	10,33	134,09	0	11
2023-12-15	00.05	23.82	10.33	133.99	-0 09932625	11
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2023-12-14	12.02	23,02	10,33	133,99	-0,09932023	11
2023-12-14	00:02	23,82	10,33	133,99	-0,09932625	11
2023-12-13	12:02	23,82	10,33	133,99	-0,09932625	11
2023-12-13	00:02	23,81	10,33	133,89	-0,1986525	11
2023-12-12	12:02	23.82	10.33	133.99	-0.09932625	11
2023-12-12	00.02	23.82	10.33	133.00	-0.09932625	11
2020-12-12	10:02	20,02	10,00	100,00	-0,00002020	11
2023-12-11	12:02	23,81	10,33	133,89	-0,1986525	11
2023-12-11	00:02	23,81	10,33	133,89	-0,1986525	11
2023-12-10	12:02	23,8	10,33	133,79	-0,29797875	11
2023-12-10	00:02	23.8	10.33	133.79	-0.29797875	11
2023-12-00	12:02	23.81	10.33	133.80	-0 1986525	11
2020-12-09	12.02	20,01	10,33	100,09	-0,1300323	11
2023-12-09	00:02	23,81	10,33	133,89	-0,1986525	11
2023-12-08	12:02	23,81	10,33	133,89	-0,1986525	11
2023-12-08	00:02	23,8	10,33	133,79	-0,29797875	11
2023-12-07	12:02	23,8	10,33	133,79	-0,29797875	11
2023-12-07	00.02	23 79	10.33	133.69	-0.397305	11
2023-12-07	10:02	20,75	10,00	100,00	-0,557505	11
2023-12-06	12:02	23,77	10,33	133,49	-0,5959575	11
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2023-12-05	12:02	23,71	10,33	132,90	-1,191915	11
2023-12-05	00:02	23,68	10,33	132,60	-1,48989375	11
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2022 12 01	00:02	20,07	10,00	132,80	1 69954625	11
2023-12-04	00.02	23,00	10,33	132,40	-1,08854625	11
2023-12-03	12:02	23,64	10,33	132,20	-1,88719875	11
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2023-12-02	12:02	23,65	10,33	132,30	-1,7878725	11
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2023-12-01	12.02	23,05	10,33	132,30	-1,7878723	11
2023-12-01	00:02	23,65	10,33	132,30	-1,7878725	11
2023-11-30	12:02	23,64	10,33	132,20	-1,88719875	11
2023-11-30	00:02	23,65	10,33	132,30	-1,7878725	11
2023-11-29	12:02	23,64	10,33	132,20	-1,88719875	11
2023-11-29	00.02	23.65	10.33	132.30	-1 7878725	11
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2023-11-28	12.02	23,65	10,33	132,30	-1,/8/8/25	11
2023-11-28	00:02	23,65	10,33	132,30	-1,7878725	11
2023-11-27	12:02	23,65	10,33	132,30	-1,7878725	11
2023-11-27	00:02	23,65	10,33	132,30	-1,7878725	11
2023-11-26	12.02	23.66	10.33	132 /0	-1 68854625	11
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2023-11-20	00.02	23,00	10,33	102,40	-1,00034023	11
2023-11-25	12:02	23,66	10,33	132,40	-1,68854625	11
2023-11-25	00:02	23,65	10,33	132,30	-1,7878725	11
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l	2023-06-07	12:02	23,36	10,33	129,42	-4,66833375	11
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	2023-06-03	12:02	23,44	10,33	130,22	-3,87372375	11
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2023-05-05	00:02	∠3,82	10,33	133,99	-0,09932625	11
2023-05-04	12:02	23,81	10,33	133,89	-0,1986525	11
2023-05-04	00:02	23.81	10.33	133.89	-0.1986525	11
2022 05 02	10.00	22.02	10.00	100.00	0.00032035	11
2023-03-03	12.02	∠3,02	10,33	100,99	-0,09932625	11
2023-05-03	00:02	23,81	10,33	133,89	-0,1986525	11
2023-05-02	12:02	23,74	10,33	133,20	-0,89393625	11
2022 05 02	00.00	72 67	10.00	122 50	1 50000	11
2023-03-02	00.02	20,07	10,33	132,30	-1,06922	11
2023-05-01	12:02	23,69	10,33	132,70	-1,3905675	11
2023-05-01	00:02	23.76	10.33	133.40	-0.69528375	11
2022.04.20	10.00	22.74	10.00	100.00	0 0000005	
2023-04-30	12:02	∠3,/4	10,33	133,20	-0,89393625	11
2023-04-30	00:02	23,72	10,33	133,00	-1,09258875	11
2023-04-29	12.02	23.69	10.33	132 70	-1 3905675	11
2020-04-23	12.02	20,00	10,00	102,70	-1,0000070	
2023-04-29	00:02	23,/3	10,33	133,10	-0,9932625	11
2023-04-28	12:02	23,76	10,33	133,40	-0,69528375	11
2023-04-28	00.05	23.81	10.33	133.89	-0 1986525	11
2020-04-20	10.02	20,01	10,00	100,09	-0,1000520	
2023-04-27	12:02	23,76	10,33	133,40	-0,69528375	11
2023-04-27	00:02	23,76	10,33	133,40	-0,69528375	11
2022 04 26	10.00	22 22	10.00	100 00	1 00250075	11
2023-04-20	12.02	23,72	10,33	133,00	-1,09236875	11
2023-04-26	00:02	23,71	10,33	132,90	-1,191915	11
2023-04-25	12:02	23,7	10,33	132,80	-1,29124125	11
2022 04 25	00.00	רד כר	10.00	100 00	1 00250075	11
2023-04-23	00.02	23,72	10,33	100,00	-1,092368/5	11
2023-04-24	12:02	23,73	10,33	133,10	-0,9932625	11
2023-04-24	00:02	23.76	10.33	133.40	-0.69528375	11
2022 04 22	10.00	20.70	10.00	100.40	0.00500075	
2023-04-23	12:02	23,76	10,33	133,40	-0,69528375	11
2023-04-23	00:02	23,8	10,33	133,79	-0,29797875	11
2023-04-22	12.02	23.85	10.33	134 20	0 1986525	11
2020-04-22	12.02	20,00	10,00	134,29	0,1360323	11
	1 00.02	23.9	10.33	134 79	0 69528375	11

2023-04-21	12:02	23,96	10,33	135,38	1,29124125	11
2023-04-21	00:02	23,94	10,33	135,18	1,09258875	11
2023-04-20	12.02	23.91	10.33	134 89	0 79461	11
2020 01 20	00:02	20,01	10,00	101,00	1 00050075	11
2023-04-20	00:02	23,94	10,33	135,18	1,09258875	11
2023-04-19	12:02	23,96	10,33	135,38	1,29124125	11
2023-04-19	00.05	24.03	10.33	136.08	1 986525	11
2020 01 10	10.02	21,00	10,00	100,00	1,000020	
2023-04-18	12:02	24,03	10,33	136,08	1,986525	11
2023-04-18	00:02	24,04	10,33	136,18	2,08585125	11
2022 04 17	12.02	24	10.22	125 70	1 6995/625	11
2023-04-17	12.02	24	10,33	133,76	1,00034023	11
2023-04-17	00:02	24,01	10,33	135,88	1,7878725	11
2023-04-16	12:02	23.98	10.33	135.58	1.48989375	11
2022 04 16	00.02	22.07	10.22	125.49	1 2005675	11
2023-04-10	00.02	23,97	10,33	133,40	1,3903073	11
2023-04-15	12:02	23,94	10,33	135,18	1,09258875	11
2023-04-15	00:02	23.92	10.33	134.98	0.89393625	11
2022 04 14	12.02	22.0	10.22	12/ 70	0 60529275	11
2023-04-14	12.02	23,9	10,33	134,79	0,09328373	11
2023-04-14	00:02	23,92	10,33	134,98	0,89393625	11
2023-04-13	12:02	23,84	10,33	134,19	0,09932625	11
2022 04 12	00.02	22.0	10.22	12/ 70	0 60529275	11
2023-04-13	00.02	23,9	10,33	134,79	0,09328373	11
2023-04-12	12:02	23,95	10,33	135,28	1,191915	11
2023-04-12	00:02	23,99	10,33	135,68	1,58922	11
2022 04 11	12:02	22.02	10.22	124.09	0.80303635	11
2023-04-11	12.02	23,92	10,55	134,98	0,09393023	11
2023-04-11	00:02	23,95	10,33	135,28	1,191915	11
2023-04-10	12:02	24,08	10,33	136,57	2,48315625	11
2022 04 10	00.02	24.12	10.22	126.07	2 990/6125	11
2023-04-10	00.02	24,12	10,33	100,97	2,00040123	11
2023-04-09	12:02	24,15	10,33	137,27	3,17844	11
2023-04-09	00:02	24.16	10.33	137.37	3.27776625	11
2022.04.00	10.00	0/ 10	10.00	107 57	2 47641075	
2023-04-08	12.02	∠4,18	10,33	137,57	3,47041875	11
2023-04-08	00:02	24,17	10,33	137,47	3,3770925	11
2023-04-07	12:02	24.16	10.33	137.37	3.27776625	11
2022 04 07	00.00	0/1F	10.00	107.07	0 17044	
2023-04-07	00.02	∠4,15	10,33	137,27	3,17844	11
2023-04-06	12:02	24,15	10,33	137,27	3,17844	11
2023-04-06	00:02	24,14	10,33	137,17	3,07911375	11
2022 04 05	10.00	24.17	10.22	107.47	3 3770025	11
2023-04-03	12.02	24,17	10,33	137,47	3,3770923	11
2023-04-05	00:02	24,22	10,33	137,96	3,87372375	11
2023-04-04	12:02	24.23	10.33	138.06	3.97305	11
2022 04 04	00.02	24.20	10.22	129 56	4 46069125	11
2023-04-04	00.02	24,20	10,33	136,30	4,40908123	11
2023-04-03	12:02	24,33	10,33	139,06	4,9663125	11
2023-04-03	00:02	24.31	10.33	138.86	4,76766	11
2022 04 02	10:00	24.07	10.00	100.40	4 070055	
2023-04-02	12.02	24,27	10,33	138,40	4,370355	11
2023-04-02	00:02	24,22	10,33	137,96	3,87372375	11
2023-04-01	12:02	24.15	10.33	137.27	3.17844	11
2022 04 01	00.02	24.11	10.22	126.97	2 701125	11
2023-04-01	00.02	24,11	10,33	130,07	2,761133	11
2023-03-31	12:02	24,06	10,33	136,37	2,28450375	11
2023-03-31	00:02	24.1	10.33	136.77	2.68180875	11
2022 02 20	10:00	04.14	10.00	107.17	2,07011275	
2023-03-30	12.02	24,14	10,33	137,17	3,07911375	11
2023-03-30	00:02	24,23	10,33	138,06	3,97305	11
2023-03-29	12.02	24 24	10.33	138 16	4 07237625	11
2020 00 20	00:00	21,21	10,00	100,10	1,07,207,020	
2023-03-29	00.02	24,33	10,33	139,06	4,9663125	11
2023-03-28	12:02	24,38	10,33	139,55	5,46294375	11
2023-03-28	00:02	24.33	10.33	139.06	4.9663125	11
2022 02 27	10.00	24.2	10.22	100.76	4 66933375	11
2023-03-27	12.02	24,3	10,55	136,76	4,00033373	11
2023-03-27	00:02	24,38	10,33	139,55	5,46294375	11
2023-03-26	12:02	24.36	10.33	139.35	5.26429125	11
2022.02.20	00.00	2/ 2/	10.00	100.10	E 06562075	
2023-03-20	00.02	24,34	10,33	109,10	0,00003875	11
2023-03-25	12:02	24,34	10,33	139,16	5,06563875	11
2023-03-25	00:02	24,35	10,33	139,26	5,164965	11
2023-03-24	12.02	2/ 26	10 22	120.25	5 26/20125	11
2020-00-24	12.02	24,00	10,00	109,00	5,20423123	11
2023-03-24	00:02	24,59	10,33	141,64	7,548795	11
2023-03-23	12:02	24,64	10,33	142,14	8,04542625	11
2023-03-23	00.03	24 7	10.33	142 73	8 64138375	11
2020-00-20	10.02	24,7	10,00	142,73	0,04100070	
2023-03-22	12:02	24,77	10,33	143,43	9,3366675	11
2023-03-22	00:02	24,88	10,33	144,52	10,42925625	11
2023-03-21	12:02	24.99	10.33	145.61	11.521845	11
2022 02 21	00.02	2.,00	10,00	140.04	10 1170005	44
2023-03-21	00:02	25,05	10,33	146,21	12,11/8025	11
2023-03-20	12:02	25,11	10,33	146,80	12,71376	11
2023-03-20	00.02	25.15	10.33	147 20	13.111065	11
2022 02 40	10.02	05.0	10,00	1 47 70	10,000000	44
2023-03-19	12:02	25,2	10,33	147,70	13,60769625	11
2023-03-19	00:02	25,22	10,33	147,90	13,80634875	11
2023-03-18	12:02	25.2	10.33	147.70	13.60769625	11
2022 02 10	00.00	0F 00	10.00	1 / 0 00	12 005075	
2023-03-18	00:02	∠0,23	10,33	148,00	13,9056/5	11
2023-03-17	12:02	25,31	10,33	148,79	14,700285	11
2023-03-17	00:02	25.35	10.33	149.19	15.09759	11
2002 02 40	10:02	05.40	10,00	1 40 00	15,007075	
2023-03-16	12:02	25,42	10,33	149,88	15,/928/375	11
2023-03-16	00:02	25,38	10,33	149,49	15,39556875	11
2023-03-15	12:02	25.35	10.33	149.19	15.09759	11
2022 02 15	00.00	25.21	10.00	1 /0 70	14 700005	11
2023-03-15	00.02	∠0,31	10,33	148,79	14,700285	11
2023-03-14	12:02	25,2	10,33	147,70	13,60769625	11
2023-03-14	00:02	25.21	10.33	147.80	13,7070225	11
2022 02 42	10.00	25.22	10.00	1 40 00	14 70001405	44
2023-03-13	12.02	∠0,32	10,33	148,89	14,/9901125	11
2023-03-13	00:02	25,52	10,33	150,88	16,78613625	11
2023-03-12	12:02	25.63	10.33	151.97	17.878725	11
2022 02 12	00.00	25.60	10.00	151 07	17 77020275	
	00.02	∠0,02	10,33	101,8/	1/,//9398/5	11

2023-03-11	12:02	25,67	10,33	152,37	18,27603	11
2023-03-11	00:02	25,69	10,33	152,57	18,4746825	11
2023-03-10	12:02	25,76	10,33	153,26	19,16996625	11
2023-03-10	00:02	25,81	10,33	153,76	19,6665975	11
2023-03-09	12:02	25,86	10,33	154,25	20,16322875	11
2023-03-09	00:02	25,93	10,33	154,95	20,8585125	11
2023-03-08	12:02	25,96	10,33	155,25	21,15649125	11
2023-03-08	00:02	25,97	10,33	155,35	21,2558175	11
2023-03-07	12:02	25,94	10,33	155,05	20,95783875	11
2023-03-07	00:02	26,16	10,33	157,23	23,14301625	11
2023-03-06	12:02	26,26	10,33	158,23	24,13627875	11
2023-03-06	00:02	26,35	10,33	159,12	25,030215	11
2023-03-05	12:02	26,46	10,33	160,21	26,12280375	11
2023-03-05	00:02	26,59	10,33	161,50	27,414045	11
2023-03-04	12:02	26,7	10,33	162,60	28,50663375	11
2023-03-04	00:02	26,76	10,33	163,19	29,10259125	11
2023-03-03	12:02	26,94	10,33	164,98	30,89046375	11
2023-03-03	00:02	27,03	10,33	165,87	31,7844	11
2023-03-02	12:02	27,16	10,33	167,17	33,07564125	11
2023-03-02	00:02	27,3	10,33	168,56	34,46620875	11
2023-03-01	12:02	27,39	10,33	169,45	35,360145	11
2023-03-01	00:02	27,45	10,33	170,05	35,9561025	11
2023-02-28	12:02	27,53	10,33	170,84	36,7507125	11
2023-02-28	00:02	27,54	10,33	170,94	36,85003875	11
2023-02-27	12:02	27,54	10,33	170,94	36,85003875	11
2023-02-27	00:02	27,11	10,33	166,67	32,57901	11
2023-02-26	12:02	27,25	10,33	168,06	33,9695775	11
2023-02-26	00:02	27,36	10,33	169,15	35,06216625	11
2023-02-25	12:02	27,5	10,33	170,54	36,45273375	11
2023-02-25	00:02	27,66	10,33	172,13	38,04195375	11
2023-02-24	12:02	28,22	10,33	177,69	43,60422375	11
2023-02-24	00:02	27,74	10,33	172,93	38,83656375	11

5

Bilaga 2 Sida 30 av 49

Uppdragsnamn	Uppdragsr	n/Mätpunkt	Installationsdatum	Avläsningstidpunkt	S	erienummer					
8BRF	Sidney	PVT	3,7	3	2023-02-24	2024-03-11	10:42	30616	1012,5	1000	9,81
		20m									
Maxvärde	Minvärde										
254,970) 179,5819	9									

Datum	Klockslag	Portryck (okorrigerat mvp)	Lufttryck	Portryck [kPa]	Excessive pore pressure [kPa]	Temp (°C)
2024-03-10	12:06	32,13	10,31	216,730	32,976	10
2024-03-10	00:06	32,15	10,31	216,929	33,175	10
2024-03-09	12:06	32,16	10,31	217,028	33,274	10
2024-03-09	00:06	32,18	10,31	217,227	33,473	10
2024-03-08	12:06	32,21	10,31	217,524	33,771	10
2024-03-08	00:06	32,24	10,31	217,822	34,069	10
2024-03-07	12:06	32,27	10,31	218,120	34,367	10
2024-03-07	00:06	32,27	10,31	218,120	34,367	10
2024-03-06	12:06	32,25	10,31	217,922	34,168	10
2024-03-06	00:06	32,23	10,31	217,723	33,970	10
2024-03-05	12:06	32,24	10,31	217,822	34,069	10
2024-03-05	00:06	32,23	10,31	217,723	33,970	10
2024-03-04	12:06	32,22	10,31	217,624	33,870	10
2024-03-04	00:06	32,18	10,31	217,227	33,4/3	10
2024-03-03	12:06	32,16	10,31	217,028	33,274	10
2024-03-03	12:06	32,17	10,31	217,127	33,374	10
2024-03-02	00:06	32,10	10,31	217,020	33,274	10
2024-03-01	12:06	32,10	10,01	217,227	33 870	10
2024-03-01	00:06	32,22	10,31	217,024	34,566	10
2024-02-29	12:06	32,20	10,31	219,014	35.261	10
2024-02-29	00:06	32,00	10.31	220.306	36 552	10
2024-02-28	12:06	32,40	10,31	220,802	37.049	10
2024-02-28	00:06	32.68	10,31	222,193	38.439	10
2024-02-27	12:06	33.18	10,31	227,159	43.406	10
2024-02-27	00:06	33,45	10,31	229,841	46,087	10
2024-02-26	12:06	29,99	10,31	195,474	11,720	10
2024-02-26	00:06	29,96	10,31	195,176	11,423	10
2024-02-25	12:06	29,95	10,31	195,077	11,323	10
2024-02-25	00:06	29,94	10,31	194,977	11,224	10
2024-02-24	12:06	29,93	10,31	194,878	11,125	10
2024-02-24	00:06	29,9	10,31	194,580	10,827	10
2024-02-23	12:06	29,82	10,31	193,786	10,032	10
2024-02-23	00:06	29,86	10,31	194,183	10,429	10
2024-02-22	12:06	29,96	10,31	195,176	11,423	10
2024-02-22	00:06	30,03	10,31	195,871	12,118	10
2024-02-21	12:06	30,02	10,31	195,772	12,018	10
2024-02-21	00:06	30,02	10,31	195,772	12,018	10
2024-02-20	12:06	30,02	10,31	195,772	12,018	10
2024-02-20	00:06	30	10,31	195,573	11,820	10
2024-02-19	12:06	29,96	10,31	195,176	11,423	10
2024-02-19	00:06	29,95	10,31	195,077	11,323	10
2024-02-18	12:06	30,04	10,31	195,971	12,217	10
2024-02-18	00:06	30,08	10,31	196,368	12,614	10
2024-02-17	12:06	30,01	10,31	195,673	11,919	10
2024-02-17	12:06	29,89	10,31	194,481	10,727	10
2024-02-16	12:06	29,88	10,31	194,381	10,628	10
2024-02-10	12:06	29,92	10,31	194,779	11,025	10
2024-02-15	00.06	29,90 20 Q5	10,31	195,077	11,323	10
2024-02-13	12.06	29,93	10,31	194 977	11,323	10
2024-02-14	00.06	20,04	10,01	194,779	11,224	10
2024-02-13	12:06	29,92	10.31	194,580	10 827	10
2024-02-13	00:06	29.84	10,31	193,984	10.231	10
2024-02-12	12:06	29,78	10,31	193,388	9,635	10
2024-02-12	00:06	29,74	10,31	192,991	9,237	10
2024-02-11	12:06	29,75	10,31	193,090	9,337	10
2024-02-11	00:06	29,76	10,31	193,190	9,436	10
2024-02-10	12:06	29,78	10,31	193,388	9,635	10
2024-02-10	00:06	29,79	10,31	193,488	9,734	10
2024-02-09	12:06	29,83	10,31	193,885	10,131	10
2024-02-09	00:06	29,83	10,31	193,885	10,131	10
2024-02-08	12:06	29,81	10,31	193,686	9,933	10
2024-02-08	00:06	29,82	10,31	193,786	10,032	10
2024-02-07	12:06	29,82	10,31	193,786	10,032	10
2024-02-07	00:06	29,7	10,31	192,594	8,840	10
2024-02-06	12:06	29,65	10,31	192,097	8,343	10
2024-02-06	00:06	29,74	10,31	192,991	9,237	10
2024-02-05	12:06	29,61	10,31	191,700	7,946	10
2024-02-05	00:06	29,58	10,31	191,402	7,648	10
2024-02-04	12:06	29,6	10,31	191,600	7,847	10
2024-02-04	00:06	29,67	10,31	192,296	8,542	10
2024-02-03	12:06	29,69	10,31	192,494	8,741	10
2024-02-03	12:00	29,7	10,31	192,594	8,840	10
2024-02-02	12.00	29,78	10,31	193,388	9,030	10
2024-02-02	00.00	23,00	10,01	134,301	10,020	10

Hydrostatiskt portryck 183,7536

					1	
2024-02-01	12:06	29,84	10,31	193,984	10,231	10
2024-02-01	00.09	29.85	10.31	194 083	10.330	10
2024 02 01	40.00	20,00	10,01	104,000	10,000	10
2024-01-31	12:06	29,9	10,31	194,580	10,827	10
2024-01-31	00:06	29,92	10,31	194,779	11,025	10
2024-01-30	12.06	30.22	10.31	197 759	14 005	10
2024 01 00	12.00	00,22	10,01	107,700	14,000	10
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2024-01-29	12:06	29,57	10,31	191,302	7,549	10
2024-01-29	00.06	29 58	10.31	191 402	7 648	10
2024 01 20	10.00	20,00	10,01	101,402	7,040	10
2024-01-28	12:06	29,62	10,31	191,799	8,045	10
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2024-01-27	12.06	29.65	10.31	192 097	8 343	10
2024-01-27	12.00	23,03	10,51	102,007	0,040	10
2024-01-27	00:06	29,58	10,31	191,402	7,648	10
2024-01-26	12:06	29,6	10,31	191,600	7,847	10
2024 01 26	00.06	20 72	10.21	102 702	0 030	10
2024-01-20	00.00	23,72	10,51	152,752	3,000	10
2024-01-25	12:06	29,62	10,31	191,799	8,045	10
2024-01-25	00:06	29,56	10,31	191,203	7,449	10
2024-01-24	12.06	20.3	10 31	188 621	4 867	10
2024-01-24	12.00	20,0	10,51	100,021	4,007	10
2024-01-24	00:06	29,4	10,31	189,614	5,860	10
2024-01-23	12:06	29,42	10,31	189,812	6,059	10
2024-01-23	00.09	29.4	10.31	189 614	5 860	10
20210120	10.00	20,1	10,01	100,011	6,000	10
2024-01-22	12:06	29,29	10,31	188,521	4,768	10
2024-01-22	00:06	29,36	10,31	189,217	5,463	10
2024-01-21	12.06	29.42	10.31	189 812	6.059	10
2024.01.01	00.00	20,42	10.01	100,012	0,000	10
2024-01-21	00:06	29,45	10,31	190,110	6,357	10
2024-01-20	12:06	29,44	10,31	190,011	6,258	10
2024-01-20	00.06	29.42	10.31	189 812	6 059	10
2024.01.10	10.00	20,42	10.01	100,012	0,000	10
2024-01-19	12:06	29,43	10,31	189,912	6,158	10
2024-01-19	00:06	29,44	10,31	190,011	6,258	10
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0004 04 40	12.00	20,40	10,01	400,400	0,450	10
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2024-01-17	10:00	20,40	10,01	100,110	0,307	10
2024-01-16	12:06	29,25	10,31	188,124	4,370	10
2024-01-16	00:06	29,24	10,31	188,025	4,271	10
2024-01-15	12.06	20.2	10 31	187.627	3.87/	10
2024-01-13	12.00	23,2	10,31	187,027	3,874	10
2024-01-15	00:06	29,2	10,31	187,627	3,874	10
2024-01-14	12:06	29,23	10,31	187,925	4,172	10
2024 01 14	00.06	20.22	10.21	197.025	4 172	10
2024-01-14	00.00	29,23	10,31	167,925	4,1/2	10
2024-01-13	12:06	29,26	10,31	188,223	4,470	10
2024-01-13	00:06	29.32	10.31	188.819	5.066	10
2024 01 12	12.00	20.26	10.21	190 217	E 463	10
2024-01-12	12.00	29,30	10,31	169,217	5,465	10
2024-01-12	00:06	29,39	10,31	189,514	5,761	10
2024-01-11	12:06	29.32	10.31	188.819	5.066	10
2024 01 11	00.06	20.26	10.21	190 217	E 463	10
2024-01-11	00.00	29,30	10,31	109,217	5,405	10
2024-01-10	12:06	29,31	10,31	188,720	4,966	10
2024-01-10	00:06	29.35	10.31	189.117	5.364	10
2024 01 00	10.00	20,12	10.01	100.010	0,050	10
2024-01-09	12:06	29,42	10,31	189,812	6,059	10
2024-01-09	00:06	29,45	10,31	190,110	6,357	10
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2024 01 09	00.06	20,40	10.21	100 508	6 754	10
2024-01-06	00.00	29,49	10,31	190,308	6,734	10
2024-01-07	12:06	29,49	10,31	190,508	6,754	10
2024-01-07	00:06	29.5	10.31	190.607	6.854	10
2024 01 06	10.06	20.51	10.21	100 706	6.053	10
2024-01-06	12.00	29,51	10,31	190,706	0,953	10
2024-01-06	00:06	29,53	10,31	190,905	7,151	10
2024-01-05	12:06	29,56	10,31	191,203	7,449	10
202/ 01 05	00.06	20.6	10.21	101 600	7047	10
2024-01-05	00.00	29,6	10,31	191,000	/,84/	10
2024-01-04	12:06	29,58	10,31	191,402	7,648	10
2024-01-04	00:06	29,53	10,31	190,905	7,151	10
2024-01-03	12.06	29.47	10.31	190 309	6 556	10
20270100	00.00	20,47	10.04	100,000	5,000	10
2024-01-03	00.00	29,4	10,31	189,014	5,860	10
2024-01-02	12:06	29,44	10,31	190,011	6,258	10
2024-01-02	00:06	29.45	10,31	190,110	6,357	10
2024-01-01	12.06	20.42	10 21	120 010	£ 150	10
2024-01-01	12.00		10,51	103,312		10
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2023-12-31	12:06	29,38	10,31	189,415	5,662	10
2023-12-31	00.06	29.27	10.31	189 316	5 562	10
2020-12-01	00.00	20,37	10,01	100,010	5,302	10
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2023-12-30	00:06	29,29	10,31	188,521	4,768	10
2022-12-20	12.06	20.24	10 21	188 0.25	1 071	10
2020-12-20	12.00		10,01			10
2023-12-29	00:06	29,18	10,31	187,429	3,675	10
2023-12-28	12:06	29,21	10,31	187,727	3,973	10
2023-12-28	00.06	20.35	10.31	187 925	A 179	10
2020-12-20			10,01	107,525		10
2023-12-27	12:06	29,16	10,31	187,230	3,476	10
2023-12-27	00:06	29,12	10,31	186,833	3,079	10
2022 12 26	12.00	20	10.21	105 641	1 007	10
2023-12-20	12.00	29	10,31	105,041	1,007	10
2023-12-26	00:06	28,98	10,31	185,442	1,689	10
2023-12-25	12:06	28,87	10,31	184,350	0,596	10
2022-12.25	00.06	20.10	10 21	187 /00	2 675	10
2023-12-23	00.00	29,16	10,31	107,429		10
2023-12-24	12:06	29,18	10,31	187,429	3,675	10
2023-12-24	00:06	29,17	10,31	187,329	3,576	10
2023-12-23	12.06	20.17	10.31	187 021	3 278	10
2023-12-23	12.00	23,14	10,01	107,031	5,278	10
2023-12-23	00:06	29,11	10,31	186,733	2,980	10
2023-12-22	12:06	29,02	10,31	185,839	2,086	10
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2023-12-22	00:06	28,8	10,31	183,654	-0,099	10
2023-12-21	12.06	29.4	10 31	189 61/	5 860	10
2020-12-21	12.00	20;4	10,51	105,014	5,000	10
2023-12-21	00:06	29,43	10,31	189,912	6,158	10
2023-12-20	12.06	20.23	10 31	187 925	/ 172	10
2023-12-20	12.00	29,23	10,31	167,925	4,172	10
2023-12-20	00:06	28,95	10,31	185,144	1,391	10
2022 12 10	12.06	20.54	10.21	101 004	7 251	10
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2022 12 10	10.00	20.50	10.01	101 400	7.040	10
2023-12-18	12:06	29,58	10,31	191,402	7,648	10
2023-12-18	00:06	29.59	10.31	191.501	7,747	10
0000 40 47	40.00	00.0	40.04	101.000	3.043	40
2023-12-17	12:06	29,6	10,31	191,600	/,84/	10
2023-12-17	00:06	29.6	10.31	191.600	7.847	10
2020 12 17	10.00	20,0	10,01	101,000	7,017	10
2023-12-16	12:06	29,61	10,31	191,700	7,946	10
2023-12-16	00.06	29.61	10.31	191 700	7 946	10
2020 12 10	00.00	20,01	10,01	101,700	7,010	10
2023-12-15	12:06	29,59	10,31	191,501	7,747	10
2023-12-15	00.06	29.61	10.31	191 700	7 946	10
2020-12-13	00.00	20,01	10,51	131,700	7,540	10
2023-12-14	12:06	29,62	10,31	191,799	8,045	10
2023-12-14	00.00	29.62	10 31	101 700	8 045	10
2020-12-14	00.00	23,02	10,51	131,733	0,040	10
2023-12-13	12:06	29,61	10,31	191,700	7,946	10
2023-12-13	00.06	29 59	10.31	191 501	7 747	10
2020 12 10	00.00	20,00	10,01	101,001	7,747	10
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2023-12-12	00.06	29.58	10.31	191 402	7 648	10
2020 12 12	00.00	20,00	10,01	101,402	7,040	10
2023-12-11	12:06	29,55	10,31	191,104	7,350	10
2023-12-11	00.06	20 52	10 31	100 005	7 151	10
2020-12-11	00.00	29,03	10,01	190,903	7,151	10
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2023-12-10	00.06	20.47	10.31	190 309	6 556	10
2020-12-10	00.00	20,47	10,01	100,009	0,000	10
2023-12-09	12:06	29,52	10,31	190,806	7,052	10
2023-12-00	00.06	20 52	10 31	100 806	7 050	10
2023-12-09	00.06	29,52	10,31	190,000	/,052	10
2023-12-08	12:06	29,51	10,31	190,706	6,953	10
2022 12 00	00.06	20.42	10.21	100 010	C 1E0	10
2023-12-08	00:06	29,43	10,31	189,912	0,158	10
2023-12-07	12:06	29.44	10,31	190,011	6,258	10
2022 12 07	00.00	20.25	10.01	100 117	E OCA	10
2023-12-07	00:06	29,35	10,31	189,117	5,364	10
2023-12-06	12:06	29.32	10,31	188,819	5,066	10
2022 12 00	00.00	20.00	10.01	100 501	4 700	10
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2022 10 05	00.00	00.05	10.04	100 107	0.004	
2023-12-05	00:06	29,05	10,31	186,137	2,384	10
2023-12-04	12:06	29.06	10.31	186.237	2,483	10
0000 40 04	00.00	00.00	40.04	100.007	0,400	10
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2023-12-03	12.06	29.06	10.31	186 237	2 483	10
2020 12 00	12.00	20,00	10,01	100,207	2,100	10
2023-12-03	00:06	29	10,31	185,641	1,887	10
2023-12-02	12.06	28.97	10.31	185 343	1 589	10
2020 12 02	12.00	20,07	10,01	100,010	1,000	10
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2023-12-01	12:06	29.01	10.31	185,740	1.987	10
			10.01	100.057	-,	-0
2023-12-01	00:06	28,76	10,31	183,257	-0,497	10
2023-11-30	12:06	28.68	10.31	182,462	-1.291	10
				,	_,	
2023-11-30	00:06	28,6	10,31	181,668	-2,086	10
2023-11-29	12.06	28.9	10.31	184 647	0 894	10
2020 11 20	12.00	20,0	10,01	104,047	0,004	10
2023-11-29	00:06	28,89	10,31	184,548	0,795	10
2023-11-28	12.06	28.87	10 31	184 350	0.596	10
2020-11-20	12.00		10,01	104,000	0,000	10
2023-11-28	00:06	28,86	10,31	184,250	0,497	10
2023-11-27	12.06	28.85	10.31	184 151	0.397	10
2020-11-2/	12.00	20,85	10,01	104,131	0,337	10
2023-11-27	00:06	28,81	10,31	183,754	0,000	10
2023-11-26	12.06	28 20	10.31	183 555	_0 100	10
2020-11-20	12.00	20,79	10,01	100,000	-0,199	10
2023-11-26	00:06		10,31	183,058	-0,695	10
2023-11-25	12.06	28 68	10.31	182 462	-1 201	10
2020-11*20	12.00	20,00	10,01	102,402	-1,291	10
2023-11-25	00:06	28,6	10,31	181,668	-2,086	10
2022-11.24	12.06	20 55	10 21	101 171	-0 500	10
2023-11-24	12.00	20,00	10,01	101,1/1	-2,302	10
2023-11-24	00:06	28,39	10,31	179,582	-4,172	10
2023-11-22	12.06	28 83	10.31	183 853	0 000	10
	12.00	20,02	10,01	100,000	3,000	10
2023-11-23	00:06	28,78	10,31	183,456	-0,298	10
2023-11-22	12.06	29.1	10.31	186 634	2.880	10
2020 11 22	12.00	20,1	10,01	100,004	2,000	10
2023-11-22	00:06	29,1	10,31	186,634	2,880	10
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2020 11-21	12.00	20,00	10,01		2,004	10
2023-11-21	00:06	29	10,31	185,641	1,887	10
2023-11-20	12.06	28 03	10.31	18/ 0/5	1 102	10
2020-11-20	12.00		10,01		-	10
2023-11-20	00:06	28,54	10,31	181,072	-2,682	10
2023-11-19	12.06	29.01	10.31	185 740	1 987	10
	12.00	20,01	10,01	100,740	1,007	10
2023-11-19	00:06	29,04	10,31	186,038	2,285	10
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2020-11-10	12.00	29,03	10,01	100,137	2,304	10
2023-11-18	00:06	29,03	10,31	185,939	2,185	10
2023-11-17	12.06	20.02	10 31	185 020	2 105	10
2020-11-1/	12.00	23,03	10,01	100,009	2,185	10
2023-11-17	00:06	29,02	10,31	185,839	2,086	10
2023-11-16	12.06	29.01	10.31	185 7/0	1 0.97	10
2020-11-10	12.00	23,01	10,51	105,740	1,907	10
2023-11-16	00:06	29,01	10,31	185,740	1,987	10
2022 11 15	10.00	70 00	10 21	105 242	1 500	10
2023-11-15	12.00	20,97	10,31	100,043	1,589	10
2023-11-15	00:06	28,91	10,31	184,747	0,993	10
2022 11 14	10.00	00.04	10.01	104.050	0.000	10
2023-11-14	12.06	28,84	10,31	104,052	0,298	10
2023-11-14	00:06	28,78	10,31	183,456	-0,298	10
0000 44 40	10.00	00.07	10.04	100.000	0.500	10
· /u/3-11-13	12:00	29,07	10,31	180,336	2,582	10
2020 11 10				400 407	0.004	10
2023-11-13	00:06	29.05	10,31	186,137	2,384	101
2023-11-13	00:06	29,05	10,31	186,137	2,384	10
2023-11-13 2023-11-13 2023-11-12	00:06 12:06	29,05 29,01	10,31 10,31	186,137 185,740	2,384	10
2023-11-13 2023-11-13 2023-11-12 2023-11-12	00:06 12:06 00:06	29,05 29,01 28.98	10,31 10,31 10.31	185,740 185,442	2,384 1,987 1.689	10
2023-11-13 2023-11-13 2023-11-12 2023-11-12	00:06 12:06 00:06	29,05 29,01 28,98	10,31 10,31 10,31	186,137 185,740 185,442	2,384 1,987 1,689	10 10 10
2023-11-13 2023-11-13 2023-11-12 2023-11-12 2023-11-11	00:06 12:06 00:06 12:06	29,05 29,01 28,98 28,92	10,31 10,31 10,31 10,31	186,137 185,740 185,442 184,846	2,384 1,987 1,689 1,093	10 10 10 10

2023-11-10	12:06	28,81	10,31	183,754	0,000	10
2023-11-10	00:06	28,75	10,31	183,158	-0,596	10
2023-11-09	12:06	28,64	10,31	182,065	-1,689	10
2023-11-09	00:06	29.05	10.31	186.137	2.384	10
2023-11-08	12.06	29.02	10.31	185 839	2,086	10
2023-11-08	00.06	28,02	10,01	185 442	1 689	10
2023-11-00	12:06	20,50	10,51	105,442	1,000	10
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2023-11-07	00:06	28,89	10,31	184,548	0,795	10
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2023-11-06	00:06	28,76	10,31	183,257	-0,497	10
2023-11-05	12:06	28,68	10,31	182,462	-1,291	10
2023-11-05	00:06	28,55	10,31	181,171	-2,582	10
2023-11-04	12:06	28,78	10,31	183,456	-0,298	10
2023-11-04	00:06	28.74	10.31	183.058	-0.695	10
2023-11-03	12.06	28.67	10.31	182 363	-1 391	10
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2023-11-03	12:06	20,01	10,01	101,707	-1,307	10
2023-11-02	12.00	28,93	10,31	103,144	1,391	10
2023-11-02	00:06	28,/2	10,31	182,860	-0,894	10
2023-11-01	12:06	29,08	10,31	186,435	2,682	10
2023-11-01	00:06	28,9	10,31	184,647	0,894	10
2023-10-31	12:06	28,84	10,31	184,052	0,298	10
2023-10-31	00:06	28,82	10,31	183,853	0,099	10
2023-10-30	12:06	28,78	10,31	183,456	-0,298	10
2023-10-30	00:06	28,72	10,31	182,860	-0,894	10
2023-10-29	12:06	28.68	10,31	182,462	-1,291	10
2023-10-29	00:06	29 11	10.31	186.733	2.980	10
2023-10-28	12:06	29,06	10.31	186 237	2,000	10
2023-10-20	00.06	20,00 20,00	10,01	100,237	0 506	10
2023-10-20	10.00	20,07	10,01	104,000	0,396	10
2023-10-27	12:06	28,83	10,31	183,952	0,199	10
2023-10-27	00:06	28,8	10,31	183,654	-0,099	10
2023-10-26	12:06	28,76	10,31	183,257	-0,497	10
2023-10-26	00:06	29,18	10,31	187,429	3,675	10
2023-10-25	12:06	29,14	10,31	187,031	3,278	10
2023-10-25	00:06	29,11	10,31	186,733	2,980	10
2023-10-24	12:06	29,06	10,31	186,237	2,483	10
2023-10-24	00:06	28,93	10,31	184,945	1,192	10
2023-10-23	12:06	28.99	10.31	185.541	1.788	10
2023-10-23	00.06	28.97	10.31	185 343	1 589	10
2023-10-22	12.06	28,07	10,01	185.045	1 291	10
2023-10-22	12.00	28,94	10,31	103,043	1,291	10
2023-10-22	00:06	28,92	10,31	184,846	1,093	10
2023-10-21	12:06	28,9	10,31	184,647	0,894	10
2023-10-21	00:06	28,86	10,31	184,250	0,497	10
2023-10-20	12:06	28,85	10,31	184,151	0,397	10
2023-10-20	00:06	29,06	10,31	186,237	2,483	10
2023-10-19	12:06	28,94	10,31	185,045	1,291	10
2023-10-19	00:06	29,07	10,31	186,336	2,582	10
2023-10-18	12:06	28,98	10,31	185,442	1,689	10
2023-10-18	00:06	29,1	10,31	186,634	2,880	10
2023-10-17	12:06	29.07	10.31	186.336	2.582	10
2023-10-17	00.06	29.05	10.31	186 137	2 384	10
2023-10-16	12.06	29	10.31	185.641	1 887	10
2023-10-10	12.00	29	10,31	103,041	1,887	10
2023-10-10	00.00	28,93	10,31	164,945	1,192	10
2023-10-15	12:06	28,69	10,31	182,562	-1,192	10
2023-10-15	00:06	28,57	10,31	181,370	-2,384	10
2023-10-14	12:06	28,93	10,31	184,945	1,192	10
2023-10-14	00:06	28,84	10,31	184,052	0,298	10
2023-10-13	12:06	28,98	10,31	185,442	1,689	10
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2023-10-12	12:06	28,94	10,31	185,045	1,291	10
2023-10-12	00:06	28,71	10,31	182,760	-0,993	10
2023-10-11	12:06	28,63	10,31	181,966	-1,788	10
2023-10-11	00:06	28.98	10,31	185,442	1,689	10
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2023-10-07	00:06	29,42	10,31	189,812	6,059	10
2023-10-06	12:06	29,39	10,31	189,514	5,761	10
2023-10-06	00:06	29,37	10,31	189,316	5,562	10
2023-10-05	12:06	29,31	10,31	188,720	4,966	10
2023-10-05	00:06	29,14	10,31	187,031	3,278	10
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2023-10-02	00:06	29,35	10,31	189,117	5,364	10
2023-10-01	12:06	29,33	10,31	188,919	5,165	10
2023-10-01	00:06	29,3	10,31	188,621	4,867	10
2023-09-30	12:06	29.13	10.31	186 932	3 178	10

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2023-09-28	12.06	29,13	10,31	186,932	3,178	10
2023-09-28	00:06	29,42	10,31	189,812	6,059	10
2023-09-27	12:06	29,4	10,31	189,614	5,860	10
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2023-09-23	00.06	29.12	10.31	186 833	3 079	10
2020 00 20	10:00	20,12	10,01	100,000	0,070	10
2023-09-22	12.06	29,1	10,31	186,634	2,880	10
2023-09-22	00:06	28,98	10,31	185,442	1,689	10
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2023-09-20	00:06	28,94	10,31	185,045	1,291	10
2023-09-19	12:06	29,3	10,31	188,621	4,867	10
2023-09-19	00:06	29.1	10.31	186.634	2.880	10
2023-09-18	12.06	20	10.31	185 6/1	1 887	10
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2022 00 04	12:06	21.07	10,01	200,000	22,100	10
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2020-00-01	40.00	01,04	10,01	200,000	22,130	10
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2020-00*20	10.00	51,10	10,01	207,033	20,042	10
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2023-08-20	12:06	31,36	10,31	209,082	25,328	10
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2023-08-19 2023-08-19 2023-08-18	12:06	31.35				
2023-08-19 2023-08-18		01,00	10,31	208,982	25,229	10
2023-08-18	00.06	31.35	10.31	208 982	25 229	10
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	12:06	31,27	10,31	208,188	24,434	10
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2022 09 15	00.06	21 5	10.21	210 472	26 710	10
2023-08-13	00.00	51,5	10,31	210,472	20,719	10
2023-08-14	12:06	31,49	10,31	210,373	26,619	10
2022 09 14	00.06	21.52	10.21	210 671	26 017	10
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2022 00 12	00.06	21.52	10.21	210 671	26.017	10
2023-08-13	00.00	51,52	10,31	210,071	20,917	10
2023-08-12	12:06	31,55	10,31	210,969	27,215	10
2022 00 12	00.06	21.56	10.21	211.069	27 215	10
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2022 00 11	00.00	21.50	10.01	011 007	07 510	10
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2022.00.00	00.00	01 54	10.01	010 570	06.010	10
2023-08-08	00:06	31,51	10,31	210,572	26,818	10
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2022 08 02	10.06	21 54	10.21	210 970	07.116	10
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0000 07 04	40.00	04.57	40.04	014 400	07.444	40
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2023-07-27 2023-07-27 2023-07-26 2023-07-26	00:06	31,59 31,6 31 50	10,31 10,31	211,366 211,466 211,366	27,613 27,712 27,613	10 10 10 10
2023-07-27 2023-07-27 2023-07-26 2023-07-26	00:06 12:06 00:06	31,59 31,6 31,59	10,31 10,31 10,31	211,366 211,466 211,366	27,613 27,712 27,613	10 10 10 10
2023-07-27 2023-07-27 2023-07-26 2023-07-26 2023-07-25	00:06 12:06 00:06 12:06	31,59 31,6 31,59 31,58	10,31 10,31 10,31 	211,366 211,466 211,366 211,267	27,613 27,712 27,613 27,513	10 10 10 10 10 10
2023-07-27 2023-07-27 2023-07-26 2023-07-26 2023-07-25 2023-07-25	00:06 12:06 00:06 12:06	31,59 31,6 31,59 31,58 31,58	10,31 10,31 10,31 10,31	211,366 211,466 211,366 211,267 211,267	27,613 27,712 27,613 27,513 27,513	10 10 10 10 10 10
2023-07-27 2023-07-27 2023-07-26 2023-07-26 2023-07-25 2023-07-25	00:06 12:06 00:06 12:06 00:06	31,59 31,6 31,59 31,58 31,58 31,59	10,31 10,31 10,31 10,31 10,31	211,366 211,466 211,366 211,267 211,366	27,613 27,712 27,613 27,513 27,513 27,613	10 10 10 10 10 10
2023-07-27 2023-07-27 2023-07-26 2023-07-26 2023-07-25 2023-07-25 2023-07-25	12:00 00:06 12:06 00:06 12:06 00:06 12:06	31,59 31,6 31,59 31,58 31,59 31,59 31,6	10,31 10,31 10,31 10,31 10,31 10,31	211,366 211,466 211,366 211,267 211,366 211,466	27,613 27,712 27,613 27,513 27,513 27,513 27,712	10 10 10 10 10 10 10 10
2023-07-27 2023-07-27 2023-07-26 2023-07-26 2023-07-25 2023-07-25 2023-07-24 2023-07-24	12:06 00:06 12:06 00:06 12:06 00:06 12:06	31,59 31,6 31,59 31,58 31,58 31,59 31,60 31,60	10,31 10,31 10,31 10,31 10,31 10,31	211,366 211,466 211,366 211,267 211,366 211,466 211,466	27,613 27,712 27,613 27,513 27,613 27,712 27,711	10 10 10 10 10 10 10 10
2023-07-27 2023-07-27 2023-07-26 2023-07-26 2023-07-25 2023-07-25 2023-07-24 2023-07-24	12:00 00:06 12:06 00:06 12:06 00:06 12:06 00:06	31,59 31,6 31,59 31,58 31,58 31,59 31,6 31,62	10,31 10,31 10,31 10,31 10,31 10,31 10,31	211,366 211,466 211,366 211,267 211,366 211,466 211,664	27,613 27,712 27,613 27,513 27,513 27,613 27,712 27,911	10 10 10 10 10 10 10 10 10
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2023-07-07	12:06	31,/4	10,31	212,856	29,103	10
2023-07-07	00:06	31,7	10,31	212,459	28,705	10
2023-07-06	12:06	31.68	10.31	212.260	28.507	10
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2023-07-06	00:06	31,69	10,31	212,360	28,606	10
2023-07-05	12:06	31,71	10,31	212,558	28,805	10
2023-07-05	00.06	31 71	10.31	212 558	28 805	10
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2023-07-04	12:06	31,7	10,31	212,459	28,705	10
2023-07-04	00:06	31,71	10,31	212,558	28,805	10
2023-07-03	12.06	31 7	10.31	212 459	28 705	10
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2023-07-03	00:06	31,72	10,31	212,658	28,904	10
2023-07-02	12:06	31,72	10,31	212,658	28,904	10
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2023-07-01	00:06	31,78	10,31	213,253	29,500	10
2023-06-30	12.06	31.8	10.31	213 452	29 699	10
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2023-06-30	00:06	31,83	10,31	213,750	29,997	10
2023-06-29	12:06	31,82	10,31	213,651	29,897	10
2023-06-29	00:06	31.84	10.31	213.849	30.096	10
2022 00 20	10:00	21,24	10.01	212,040	20,000	10
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2022.06.07	00.00	21,01	10.01	010 654	20,000	10
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2023-00-23	12.00	31,83	10,31	213,/50	29,997	10
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2023-06-24	12:06	31,82	10,31	213,651	29,897	10
2023-06-24	00.06	21 01	10 21	212 551	20 20	10
2023-00-24	00.00	51,61	10,31	210,001	29,798	10
2023-06-23	12:06	31,8	10,31	213,452	29,699	10
2023-06-23	00:06	31,8	10,31	213,452	29,699	10
2023-06-22	12.06	31 78	10 31	213 253	29 500	10
2023-00-22	12.00	31,78	10,31	213,233	29,500	10
2023-06-22	00:06	31,77	10,31	213,154	29,401	10
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2022 06 21	00.06	21 74	10.21	212.956	20.102	10
2023-00-21	00.00	31,74	10,31	212,850	29,103	10
2023-06-20	12:06	31,75	10,31	212,955	29,202	10
2023-06-20	00:06	31,74	10,31	212,856	29,103	10
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2023-06-19	00:06	31,67	10,31	212,161	28,407	10
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2022 06 19	00.06	21.62	10.21	211 764	29.010	10
2023-00-18	00.00	51,05	10,31	211,704	28,010	10
2023-06-17	12:06	31,61	10,31	211,565	27,811	10
2023-06-17	00:06	31,59	10,31	211,366	27,613	10
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2023-00-10	12.00	51,57	10,31	211,108	27,414	10
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2023-06-15	12:06	31,48	10,31	210,274	26,520	10
2023-06-15	00.06	31 /0	10 31	210 373	26.619	10
2020 00 10	10.00	01,40	10,01	210,070	20,010	10
2023-06-14	12:06	31,5	10,31	210,472	26,719	10
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2020 00 10	00.00	01,40	10.01	200,070	20,222	10
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2023-06-11	00:06	31,32	10,31	208,684	24,931	10
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2023-06-08	12:06	31,04	10,31	205,903	22,150	10
2023-06-08	00.06	31.07	10.31	206 201	22 1/18	10
2020-00-00	40.00	51,07	40.01	200,201	22,440	10
2023-06-07	12:06	30,93	10,31	204,811	21,057	10
2023-06-07	00:06	30,88	10,31	204,314	20,561	10
2023-06-06	12.06	30.82	10.31	203 718	19 965	10
0000 00 00	00.00	00.77	40.01	200,710	40,000	10
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2023-06-05	12:06	30,62	10,31	201,732	17,978	10
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2023-06-04	12:06	30,54	10,31	200,937	17,183	10
2023-06-04	00:06	30,49	10,31	200,440	16,687	10
2023-06-03	12:06	30.46	10.31	200.142	16.389	10
2022 00 00	00.00	20,40	10.04	100.044	10,000	10
2023-06-03	00:06	30,43	10,31	199,844	16,091	10
2023-06-02	12:06	30,34	10,31	198,950	15,197	10
2023-06-02	00:06	30 17	10.31	197.262	13,508	10
2022.06.01	10.00	20,17	10.01	107 500	12 000	10
2023-00-01	12.00	30,2	10,31	197,360	13,806	10
2023-06-01	00:06	29,96	10,31	195,176	11,423	10
2023-05-31	12:06	30	10.31	195.573	11.820	10
2022 05 24	00.00	20.01	10.01	104 670	10.000	10
2023-03-31	00.06	29,91	10,31	194,079	10,926	10
2023-05-30	12:06	29,94	10,31	194,977	11,224	10
2023-05-30	00:06	29.84	10,31	193,984	10,231	10
2023-05-20	12.06	20 72	10.31	103 388	0 635	10
2023-03-29	12.00	23,78	10,31	130,000	3,033	10
	I 00.06	20.8/	10.31	193 984	10 231	10

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0000 05 00	10,00	20.70	10.01	102 200	0.025	10
2023-05-28	12:06	29,78	10,31	193,388	9,635	10
2023-05-28	00:06	29,74	10,31	192,991	9,237	10
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2022 05 27	00:00	20,75	10.01	102,000	0,007	10
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2022 05 25	10:00	20,07	10.01	100,000	0,5.12	10
2023-05-25	12:06	29,67	10,31	192,296	8,542	10
2023-05-25	00:06	29,71	10,31	192,693	8,939	10
2023-05-24	12.06	29.62	10.31	191 799	8 045	10
2020 00 24	12.00	20,02	10,01	101,700	0,040	10
2023-05-24	00:06	29,62	10,31	191,799	8,045	10
2023-05-23	12:06	29,58	10,31	191,402	7,648	10
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2020 00 20	40.00	20,01	10,01	101,000	0,211	10
2023-05-22	12:06	29,7	10,31	192,594	8,840	10
2023-05-22	00:06	29,71	10,31	192,693	8,939	10
2023-05-21	12.06	29.7	10.31	192 594	8 840	10
2020 00 21	12.00	20,7	10,01	102,004	0,040	10
2023-05-21	00:06	29,71	10,31	192,693	8,939	10
2023-05-20	12:06	29,77	10,31	193,289	9,535	10
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2020 00 20	00.00	20,70	10,01	100,000	0,007	10
2023-05-19	12:06	29,75	10,31	193,090	9,337	10
2023-05-19	00:06	29,75	10,31	193,090	9,337	10
2023-05-18	12.06	29.72	10 31	102 702	9.039	10
2023-03-18	12.00	29,72	10,31	192,792	9,039	10
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2023-05-17	12:06	29,65	10,31	192,097	8,343	10
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2023-03-17	00.06	29,30	10,31	191,203	/,449	10
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2023-05-16	00:06	29.64	10.31	191.998	8.244	10
2022 05 15	12.00	20.62	10 21	101 000	0 1 / E	10
2023-03-15	12.00	29,63	10,31	191,098	0,145	10
2023-05-15	00:06	29,69	10,31	192,494	8,741	10
2023-05-14	12:06	29.71	10,31	192,693	8.939	10
2022 05 14	00.00	20,74	10.21	102.001	-,000	10
2023-05-14	00.06	29,74	10,31	192,991	9,237	10
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2023-05-13	00:06	29.75	10.31	193.090	9.337	10
2022 05 12	10.00	20,74	10 21	102 001	2,007	10
2023-03-12	12.00	29,74	10,31	192,991	9,237	10
2023-05-12	00:06	29,72	10,31	192,792	9,039	10
2023-05-11	12:06	29.7	10.31	192,594	8.840	10
2020 00 11	00:00	20,74	10,01	102,001	0,017	10
2023-05-11	00:06	29,74	10,31	192,991	9,237	10
2023-05-10	12:06	29,72	10,31	192,792	9,039	10
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2020 00 10	40:00	20,70	10,01	102,002	10,000	10
2023-05-09	12:06	29,88	10,31	194,381	10,628	10
2023-05-09	00:06	29,94	10,31	194,977	11,224	10
2023-05-08	12.06	29.93	10.31	194 878	11 125	10
2020 00 00	12.00	20,00	10,01	104,070	11,120	10
2023-05-08	00:06	29,95	10,31	195,077	11,323	10
2023-05-07	12:06	29,94	10,31	194,977	11,224	10
2023-05-07	00.06	29.93	10.31	194 878	11 125	10
2020 00 07	00.00	20,00	10,01	104,070	11,120	10
2023-05-06	12:06	29,92	10,31	194,779	11,025	10
2023-05-06	00:06	29,94	10,31	194,977	11,224	10
2023-05-05	12.06	20.06	10 31	195 176	11 /23	10
2023-03-03	12.00	23,30	10,51	155,170	11,425	10
2023-05-05	00:06	29,95	10,31	195,077	11,323	10
2023-05-04	12:06	29,93	10,31	194,878	11,125	10
2023-05-04	00.06	20.88	10 31	10/ 381	10 628	10
2023-03-04	00.00	23,00	10,51	154,501	10,020	10
2023-05-03	12:06	29,86	10,31	194,183	10,429	10
2023-05-03	00:06	29,81	10,31	193,686	9,933	10
2023 05 02	10.00	17 00	10 21	102 602	0 0 20	10
2023-03-02	12.00	29,71	10,31	192,093	6,939	10
2023-05-02	00:06	29,62	10,31	191,799	8,045	10
2023-05-01	12:06	29,64	10,31	191,998	8,244	10
2022 05 01	00.00	7 00	10 21	102 504	0.010	10
2020-03-01	00.00		10,01	192,394		10
2023-04-30	12:06	29,69	10,31	192,494	8,741	10
2023-04-30	00:06	29,68	10,31	192,395	8,641	10
2023-04-29	12:06	29.64	10.31	191 998	8 J/1	10
0000 04 00	00.00	20,04	10.01	101,000	0,244	10
2023-04-29	00:06	29,67	10,31	192,296	8,542	10
2023-04-28	12:06	29,68	10,31	192,395	8,641	10
2023-04-28	00:06	29 71	10.31	192.693	8,939	10
2022 04 27	12.00	20.60	10.21	102 205	0.641	10
2023-04-27	12:06	29,68	10,31	192,395	٥,641	10
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2023-04-26	12:06	29.66	10.31	192.196	8.443	10
2022 04 26	00.00	20,00	10 21	102 100	0 443	10
2023-04-20	00.06	29,00	10,31	192,190	0,443	10
2023-04-25	12:06	29,66	10,31	192,196	8,443	10
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2022 04 24	10.00	20.64	10 21	101 000	0.044	10
2023-04-24	12.00	29,64	10,31	191,998	0,244	10
2023-04-24	00:06	29,71	10,31	192,693	8,939	10
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2022 04 02	00.00		10.04	100 600	0.000	10
2023-04-23	00:06	29,71	10,31	192,093	8,939	10
2023-04-22	12:06	29,8	10,31	193,587	9,833	10
2023-04-22	00:06	29.81	10.31	193.686	9,933	10
2022 04 04	10.00	,01	10.04	104 100	10,400	10
2023-04-21	12:06	29,86	10,31	194,183	10,429	10
2023-04-21	00:06	29,88	10,31	194,381	10,628	10
2023-04-20	12:06	29.93	10,31	194,878	11,125	10
2022 04 20	00.00	20.01	10 21	10/ 670	10.000	10
2023-04-20	00.00		10,31	194,079	10,926	10
2023-04-19	12:06	29,93	10,31	194,878	11,125	10
2023-04-19	00:06	30	10,31	195,573	11,820	10
2023-04-19	12.06	00	10 21	105 572	11 020	10
2023-04-18	12.00	30	10,31	190,073		10
2023-04-18	00:06	30,01	10,31	195,673	11,919	10
2022 04 17	12.06	29.96	10.31	195.176	11 423	10

2023-04-17 2023-04-16 2023-04-16 2023-04-15	00:06	20.08					
2023-04-16 2023-04-16 2023-04-15		25,50	10,31	195,375	11,621	10	
2023-04-16 2023-04-15	12:06	30,08	10,31	196,368	12,614	10	
2023-04-15	00:06	29,98	10,31	195,375	11,621	10	
	12:06	29.98	10.31	195.375	11.621	10	
2023-04-15	00.06	29.89	10.31	194 481	10 727	10	
2022 04 14	12:06	20,00	10,01	104,401	10,727	10	
2023-04-14	12.00	29,80	10,31	194,163	10,429	10	
2023-04-14	00:06	30,05	10,31	196,070	12,316	10	
2023-04-13	12:06	29,78	10,31	193,388	9,635	10	
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2023-04-11	00.06	29.91	10.31	194 679	10 926	10	
2022 04 10	12:06	20,01	10,01	105,070	10,020	10	
2023-04-10	12.00	30,03	10,31	195,871	12,110	10	
2023-04-10	00:06	30,12	10,31	196,765	13,012	10	
2023-04-09	12:06	30,12	10,31	196,765	13,012	10	
2023-04-09	00:06	30,14	10,31	196,964	13,210	10	
2023-04-08	12:06	30,14	10,31	196,964	13,210	10	
2023-04-08	00:06	30,14	10,31	196,964	13,210	10	
2023-04-07	12:06	30,13	10,31	196,865	13,111	10	
2023-04-07	00:06	30.12	10.31	196,765	13.012	10	
2023-04-06	12.06	30.12	10.31	196 765	13 012	10	
2022 04 06	00.06	20,12	10,01	106,765	12,012	10	
2023-04-06	00.00	30,12	10,31	196,765	13,012	10	
2023-04-05	12:06	30,14	10,31	196,964	13,210	10	
2023-04-05	00:06	30,19	10,31	197,461	13,707	10	
2023-04-04	12:06	30,21	10,31	197,659	13,906	10	
2023-04-04	00:06	30,25	10,31	198,057	14,303	10	
2023-04-03	12:06	30,29	10,31	198,454	14,700	10	
2023-04-03	00:06	30.29	10,31	198,454	14.700	10	
2023-04-02	12:06	30.24	10.31	197,957	14 204	10	
2023-04-02	00.06	20,24	10 21	107,507	12 006	10	
2023-04-02	12:06	30,2	10,01	107,300	13,000	10	
2023-04-01	12:06	30,12	10,31	196,/65	13,012	10	
2023-04-01	00:06	30,08	10,31	196,368	12,614	10	
2023-03-31	12:06	30,04	10,31	195,971	12,217	10	
2023-03-31	00:06	30,07	10,31	196,269	12,515	10	
2023-03-30	12:06	30,13	10,31	196,865	13,111	10	
2023-03-30	00:06	30,21	10,31	197,659	13,906	10	
2023-03-29	12:06	30.21	10.31	197.659	13.906	10	
2023-03-29	00.06	30.29	10.31	198.454	14 700	10	
2020 00 20	12:06	20,23	10,01	100,404	15,000	10	
2023-03-28	12.00	30,37	10,31	199,240	13,495	10	
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2023-03-27	12:06	30,29	10,31	198,454	14,700	10	
2023-03-27	00:06	30,36	10,31	199,149	15,396	10	
2023-03-26	12:06	30,33	10,31	198,851	15,098	10	
2023-03-26	00:06	30,31	10,31	198,653	14,899	10	
2023-03-25	12:06	30.31	10.21	198.653	14.899	10	
2020 00 20		00101	10.31			10	
2023-03-25	00.06	30.34	10,31	198 950	15 197	10	
2023-03-25	00:06	30,34	10,31	198,950	15,197	10	
2023-03-25 2023-03-25 2023-03-24	00:06	30,34 30,33	10,31 10,31 10,31	198,950 198,851	15,197 15,098	10 10 10	
2023-03-25 2023-03-25 2023-03-24 2023-03-24	00:06 12:06 00:06	30,34 30,33 30,53	10,31 10,31 10,31 10,31	198,950 198,851 200,838	15,197 15,098 17,084	10 10 10 10	
2023-03-25 2023-03-24 2023-03-24 2023-03-23	00:06 12:06 00:06 12:06	30,34 30,33 30,53 30,58	10,31 10,31 10,31 10,31 10,31	198,950 198,851 200,838 201,334	15,197 15,098 17,084 17,581	10 10 10 10 10	
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2023-03-25 2023-03-24 2023-03-24 2023-03-23 2023-03-23 2023-03-22 2023-03-22 2023-03-22 2023-03-21 2023-03-20 2023-03-10 2023-03-19 2023-03-19 2023-03-19 2023-03-18 2023-03-18 2023-03-16 2023-03-16 2023-03-16 2023-03-16 2023-03-16 2023-03-16 2023-03-16 2023-03-16 2023-03-16 2023-03-16 2023-03-16 2023-03-16 2023-03-17 2023-03-11 2023-03-11 2023-03-11 2023-03-10 2023-03-10 2023-03-10 2023-03-10 2023-03-10 2023-03-10 2023-03-10 2023-03-10 2023-03-10 2023-03-10 2023-03-10 2023-03-10 2023-03-10 2023-03-10 2023-03-09 2023-03-09 2023-03-08	00:06 12:06 12:06 00:06 12:06 00:06 12:06 12:06 00:06 12:06 12:06 00:06 12:06 12:06 00:06 12:06 12:06 00:06 12	30,34 30,33 30,53 30,58 30,68 30,68 30,68 30,81 30,92 30,98 31 31,07 31,13 31,13 31,15 31,13 31,13 31,13 31,13 31,13 31,13 31,24 31,33 31,34 31,33 31,34 31,35 31,36 31,36 31,36 31,36 31,36 31,36 31,36 31,37 31,38 31,38 31,36 31,36 31,37 31,38 31,38 31,38 31,36 31,36 31,36 31,36 31,37 31,38 31,38 31,38 31,36 31,36 31,36 31,36 31,37 31,38 31,38 31,38 31,36 31,36 31,36 31,36 31,37 31,38 31,38 31,36 31,36 31,36 31,36 31,36 31,36 31,36 31,36 31,36 31,36 31,36 31,37 31,38 31,38 31,36 31,36 31,36 31,36 31,36 31,37 31,37 31,38 31,38 31,36 31,36 31,36 31,36 31,36 31,36 31,36 31,36 31,37 31,37 31,37 31,38 31,38 31,36 31,37 31,88 31,38 31,29 32,27	10,31 10,31 </td <td>198,950 198,851 200,838 201,334 202,328 203,619 204,711 205,307 205,307 206,996 206,201 206,297 206,996 206,797 207,995 207,890 208,883 209,882 209,882 209,882 208,883 208,784 207,592 208,883 208,784 207,592 208,883 208,784 207,592 208,883 208,784 207,592 208,883 208,784 207,592 208,883 208,784 207,592 208,883 208,784 207,592 208,883 209,825 211,068 212,260 212,360 212,955 213,452 213,452 213,452 213,452 214,247 215,041 215,737 216,730 217,723 216,730 217,723 218,310</td> <td>15,197 15,098 17,084 17,084 17,084 17,084 18,276 19,865 20,958 21,554 21,554 22,2448 23,044 23,342 24,136 24,136 24,136 24,136 24,136 24,328 25,528 25,530 25,530 25,530 25,532 25,533 25,532 25,532 25,532 25,532 25,533 25,532 25,533 25,532 25,532 25,532 25,533 25,533 25,534 27,315 28,606 29,202 29,699 30,493 31,288 31,983 32,976 3</td> <td>10 10</td>	198,950 198,851 200,838 201,334 202,328 203,619 204,711 205,307 205,307 206,996 206,201 206,297 206,996 206,797 207,995 207,890 208,883 209,882 209,882 209,882 208,883 208,784 207,592 208,883 208,784 207,592 208,883 208,784 207,592 208,883 208,784 207,592 208,883 208,784 207,592 208,883 208,784 207,592 208,883 208,784 207,592 208,883 209,825 211,068 212,260 212,360 212,955 213,452 213,452 213,452 213,452 214,247 215,041 215,737 216,730 217,723 216,730 217,723 218,310	15,197 15,098 17,084 17,084 17,084 17,084 18,276 19,865 20,958 21,554 21,554 22,2448 23,044 23,342 24,136 24,136 24,136 24,136 24,136 24,328 25,528 25,530 25,530 25,530 25,532 25,533 25,532 25,532 25,532 25,532 25,533 25,532 25,533 25,532 25,532 25,532 25,533 25,533 25,534 27,315 28,606 29,202 29,699 30,493 31,288 31,983 32,976 3	10 10	
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	2023-03-06	12:06	32,76	10,31	222,987	39,234	10
Γ	2023-03-06	00:06	32,91	10,31	224,477	40,724	10
	2023-03-05	12:06	33,11	10,31	226,464	42,710	10
	2023-03-05	00:06	33,34	10,31	228,748	44,995	10
	2023-03-04	12:06	33,54	10,31	230,735	46,981	10
	2023-03-04	00:06	33,71	10,31	232,423	48,670	10
	2023-03-03	12:06	34	10,31	235,304	51,550	10
	2023-03-03	00:06	34,24	10,31	237,688	53,934	10
	2023-03-02	12:06	34,53	10,31	240,568	56,815	10
	2023-03-02	00:06	34,86	10,31	243,846	60,092	10
Γ	2023-03-01	12:06	35,26	10,31	247,819	64,065	10
	2023-03-01	00:06	35,77	10,31	252,885	69,131	10
Γ	2023-02-28	12:06	35,98	10,31	254,970	71,217	10
	2023-02-28	00:06	34,74	10,31	242,654	58,900	10
	2023-02-27	12:06	34,51	10,31	240,370	56,616	10
	2023-02-27	00:06	31,17	10,31	207,195	23,441	10
	2023-02-26	12:06	31,3	10,31	208,486	24,732	10
	2023-02-26	00:06	31,47	10,31	210,174	26,421	10
	2023-02-25	12:06	31,81	10,31	213,551	29,798	10
Г	2023-02-25	00:06	32,68	10,31	222,193	38,439	10

	Bilaga 2
S	ida 40 av 49

Uppdragsnamn	Uppdragsr	Mätpunkt	Installation Installativ	onsdatum	Avläsningstidpunkt	Sei	rienummer					
BRF	Sydney	40m	40,12	2023-02-28		2024-03-11	10:35	32545	1	.012,5	1000	9,81

Maxvärde Minvärde 531,3954375 403,3639

Datum	Klockslag	Portryck okorrigerat	Lufttryck	Portryck [kPa]	Excessive pore pressure [kPa]	Temp (°C)
2024-03-10	12:46	63,83	10,33	531,4	149,0	8
2024-03-10	00:46	63,79	10,33	531,0	148,6	8
2024-03-09	12:46	63,76	10,33	530,7	148,3	8
2024-03-09	00:46	63,75	10,33	530,6	148,2	8
2024-03-08	12:46	63,77	10,33	530,8	148,4	8
2024-03-08	00:46	63,77	10,33	530,8	148,4	8
2024-03-07	12:46	63,77	10,33	530,8	148,4	8
2024-03-07	00:46	63,67	10,33	529,8	147,4	8
2024-03-06	12:46	63,58	10,33	528,9	146,5	8
2024-03-06	00:46	63,5	10,33	528,1	145,7	8
2024-03-05	12:46	63,45	10,33	527,6	145,2	8
2024-03-05	00:46	63,31	10,33	526,2	143,8	8
2024-03-04	12:46	63,24	10,33	525,5	143,1	8
2024-03-04	00:46	63,11	10,33	524,2	141,8	8
2024-03-03	12:46	63	10.33	523.2	140.7	8
2024-03-03	00:46	62.87	10.33	521.9	139.5	8
2024-03-02	12:46	62.75	10.33	520.7	138.3	8
2024-03-02	00:46	62.65	10.33	519.7	137.3	8
2024-03-01	12:46	62,55	10.33	518.7	136.3	8
2024-03-01	00:46	62,48	10.33	518.0	135.6	8
2024-02-29	12:46	62,40	10,00	517.1	134.7	8
2024-02-29	12.40	02,39 £2.4	10,00	517,1	104,/	0
2024-02-29	12:40	02,4 60.00	10,03	517,2	134,8	8
2024-02-28	12.40	02,33	10,33	510,5	134,1	8
2024-02-28	10:46	02,46	10,33	51/,8	135,4	8
2024-02-27	12:46	63,16	10,33	524,7	142,3	- 8
2024-02-27	00:46	62,2	10,33	515,2	132,8	8
2024-02-26	12:46	57,93	10,33	472,8	90,4	8
2024-02-26	00:46	57,92	10,33	472,7	90,3	8
2024-02-25	12:46	57,9	10,33	472,5	90,1	8
2024-02-25	00:46	57,87	10,33	472,2	89,8	8
2024-02-24	12:46	57,86	10,33	472,1	89,7	8
2024-02-24	00:46	57,85	10,33	472,0	89,6	8
2024-02-23	12:46	57,79	10,33	471,4	89,0	8
2024-02-23	00:46	57,77	10,33	471,2	88,8	8
2024-02-22	12:46	57,85	10,33	472,0	89,6	8
2024-02-22	00:46	57,96	10,33	473,1	90,7	8
2024-02-21	12:46	57,95	10,33	473,0	90,6	8
2024-02-21	00:46	57,91	10,33	472,6	90,2	8
2024-02-20	12:46	57,99	10,33	473,4	91,0	8
2024-02-20	00:46	57,98	10,33	473,3	90,9	8
2024-02-19	12:46	57,91	10,33	472,6	90,2	8
2024-02-19	00:46	57,9	10,33	472,5	90,1	8
2024-02-18	12:46	57,99	10,33	473,4	91,0	8
2024-02-18	00:46	58,02	10,33	473,7	91,3	8
2024-02-17	12:46	58,01	10,33	473,6	91,2	8
2024-02-17	00:46	57,88	10,33	472,3	89,9	8
2024-02-16	12:46	57,86	10,33	472,1	89,7	8
2024-02-16	00:46	57.88	10.33	472.3	89.9	8
2024-02-15	12:46	57.93	10.33	472.8	90.4	8
2024-02-15	00.46	57 91	10.33	472.6	90,4 90.2	о 8
2024-02-14	12:46	57 96	10.33	<u>ل</u> 73 1	90,2	о 8
2024-02-14	00:46	57 94	10.33	473,1 472 Q	90,7	о 8
2024-02-13	12:46	57 94	10.33	472,5 472 9	90,5	о 8
20202-13	00.46	57,54	10,00	472,3	30,3 00.4	0
2024-02-13	12:40	57.93	10,00	4/2,0	30,4 00.0	°
2024-02-12	12.40	57,09	10,00	4/2,4	90,0 0 0 0	0 0
2024-02-12	12:40	57,07	10,00	4/2,2	09,0	0
2024-02-11	12.40	57,91	10,33	472,0	90,2	8
2024-02-11	10:46	57,93	10,33	472,8	90,4	8
2024-02-10	12:46	57,91	10,33	4/2,6	90,2	8
2024-02-10	00:46	57,94	10,33	4/2,9	90,5	8
2024-02-09	12:46	57,98	10,33	4/3,3	90,9	8
2024-02-09	00:46	58,01	10,33	4/3,6	91,2	8
2024-02-08	12:46	58	10,33	473,5	91,1	8
2024-02-08	00:46	58,07	10,33	474,2	91,8	8
2024-02-07	12:46	58,18	10,33	475,3	92,9	8
2024-02-07	00:46	58,03	10,33	473,8	91,4	8
2024-02-06	12:46	57,9	10,33	472,5	90,1	8
2024-02-06	00:46	57,99	10,33	473,4	91,0	8
2024-02-05	12:46	58,03	10,33	473,8	91,4	8
2024-02-05	00:46	57,95	10,33	473,0	90,6	8
2024-02-04	12:46	58,01	10,33	473,6	91,2	8
2024-02-04	00:46	58,1	10,33	474,5	92,1	8
2024-02-03	12:46	58,14	10,33	474,9	92,5	8
2024-02-03	00:46	58,16	10,33	475,1	92,7	8
2024-02-02	12:46	58,27	10,33	476,2	93,8	8
2024-02-02	00:46	58,41	10,33	477,6	95,2	8
2024-02-01	12:46	58.44	10,33	477.9	95.4	8
			,50		88,1	ı

Hydrostatiskt portryck 382,41

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2024-02-01	00:46	58,28	10,33	476,3	93,9	8
2024 01 21	12.46	E0 20	10.22	177.2	010	0
2024-01-31	12.40	38,38	10,55	477,3	54,5	0
2024-01-31	00:46	58,37	10,33	477,2	94,8	8
2024 01 20	10.10	50.07	10 22	106 1	103 7	0
2024-01-30	12.40	59,27	10,33	400,1	103,7	0
2024-01-30	00:46	59,86	10,33	492,0	109,6	8
2024 01 20	10.46	EC 25	10.22	4EG 1	7 77	0
2024-01-29	12:40	50,25	10,33	400,1	/3,/	8
2024-01-29	00:46	56,26	10,33	456,2	73,8	8
000/ 01 00	10.40	FC 00	10.00	450.0	70.0	~
2024-01-28	12:46	56,26	10,33	456,2	/3,8	8
2024-01-28	00:46	56.31	10.33	456.7	74.3	8
0004.04.07	40.40	50.04	40.00	457.0	71.0	0
2024-01-27	12:46	56,34	10,33	457,0	/4,6	8
2024-01-27	00:46	56.29	10.33	456.5	74.1	8
2024-01-26	12:46	56,28	10,33	456,4	74,0	8
2024-01-26	00.46	56.42	10.33	457.8	75.4	8
20210120	00110	00,12	10,00	107,0	, , ,	
2024-01-25	12:46	56,29	10,33	456,5	/4,1	8
2024-01-25	00.46	56 24	10.33	456.0	73.6	8
20210120	00110	00,21	10,00	100,0	, 610	
2024-01-24	12:46	55,87	10,33	452,3	69,9	8
2024-01-24	00.46	55.9	10 33	452.6	70.2	g
2024-01-24	00.40	55,5	10,00	432,0	70,2	0
2024-01-23	12:46	55,94	10,33	453,0	70,6	8
2024-01-23	00.46	55.93	10 33	152.9	70 5	g
2024 01 20	00.40	00,00	10,00	402,0	70,0	0
2024-01-22	12:46	55,78	10,33	451,4	69,0	8
2024-01-22	00.46	55 01	10 32	151 7	EU 3	0
2024-01-22	00.40	55,61	10,00	431,7	09,3	°
2024-01-21	12:46	55,84	10,33	452,0	69,6	8
2024 01 21	00.46	55.04	10 22	150.0	e0 e	0
2024-01-21	00:46	ວວ,84	10,33	452,0	69,6	8
2024-01-20	12:46	55,83	10,33	451,9	69,5	8
2024 01 20	00.46	55.00	10.22	460.0	c0.0	0
2024-01-20	00.46	55,86	10,53	43Z,Z	69,8	8
2024-01-19	12:46	55,82	10,33	451,8	69,4	8
000/ 01 40	00.40	FF 04	10.00	454 7	00.0	_
2024-01-19	00:46	55,81	10,33	451,7	69,3	8
2024-01-18	12:46	55,83	10,33	451.9	69.5	8
2024 01 12	00.40	FF 07	10.00	450.0	20,0	
2024-01-18	00:46	55,87	10,33	452,3	69,9	8
2024-01-17	12:46	55.88	10.33	452.4	70.0	8
0004 04 47	00.40	FF 00	10.00	440.0	07.5	
2024-01-1/	00:46	55,63	10,33	449,9	67,5	8
2024-01-16	12:46	55.51	10.33	448.8	66.3	8
0004.04.40	00.40		10.00	440.0	50,0	
2024-01-16	UU:46	55,52	10,33	448,9	66,4	8
2024-01-15	12:46	55.48	10.33	448.5	66.0	8
0004.04.15	00.40				30,0	5
2024-01-15	00:46	55,45	10,33	448,2	65,8	8
2024-01-14	12:46	55.45	10.33	448.2	65.8	8
0004.04.44	00:40	55.40	40.00	440.0	05,0	-
2024-01-14	00:46	55,46	10,33	448,3	65,8	8
2024-01-13	12:46	55.45	10.33	448.2	65.8	8
20210110	12.10	55,15	10,00	110,2	00,0	
2024-01-13	00:46	55,41	10,33	447,8	65,4	8
2024-01-12	12:46	55.42	10.33	447.9	65.5	8
	00.10	55,11	10,00	,.		-
2024-01-12	00:46	55,44	10,33	448,1	65,7	8
2024-01-11	12:46	55.37	10.33	447.4	65.0	8
0004.04.44	00:40	55.04	40.00	447.4	01,7	-
2024-01-11	00:46	55,34	10,33	447,1	64,7	8
2024-01-10	12:46	55.31	10.33	446.8	64.4	8
0004.01.10	00.40	55.07	10.00	110.1	61.0	0
2024-01-10	00:46	55,27	10,33	446,4	64,0	8
2024-01-09	12:46	55.32	10.33	446.9	64.5	8
0004.04.00	00:40	55.04	40.00	440.0	04.4	-
2024-01-09	00:46	55,31	10,33	446,8	64,4	8
2024-01-08	12:46	55.31	10.33	446.8	64.4	8
0004.04.00	00.40	55.0	40.00	440.7	21,1	-
2024-01-08	00:46	55,3	10,33	446,7	64,3	8
2024-01-07	12:46	55.26	10.33	446.3	63.9	8
0004.01.07	00.40	55.25	10.00	140.0	63.9	0
2024-01-07	00:46	55,25	10,33	446,2	63,8	8
2024-01-06	12:46	55.26	10,33	446.3	63.9	8
2024 01 02	00.40	FF 04	10.00	440.4	20,0	
2024-01-06	00:46	55,24	10,33	446,1	63,7	8
2024-01-05	12:46	55,2	10,33	445,7	63,3	8
2024 01 05	00.46	55 10	10 22	14F C	E0.0	0
2024-01-00	00.46	55,19	10,53	443,6	63,2	8
2024-01-04	12:46	55,16	10,33	445,3	62,9	8
2024 01 04	00.40	CC 47	10.00	445.0		-
2024-01-04	00.46	55,15	10,03	440,Z	02,8	8
2024-01-03	12:46	55,12	10,33	444,9	62,5	8
2024-01-03	00.46	55 00	10.33	ΔΔΔ 6	eo o	Q
2024 01 00	50.40		10,00		02,2	0
2024-01-02	12:46	55,09	10,33	444,6	62,2	8
2024-01-02	00.46	55.08	10.33	444 5	62.1	8
0004 04 02	40.10		10,00		02,1	-
2024-01-01	12:46	55,07	10,33	444,4	62,0	8
2024-01-01	00:46	55.01	10.33	443.8	61.4	8
0000 10 01	40.10		10,00			-
2023-12-31	12:46	55,02	10,33	443,9	61,5	8
2023-12-31	00:46	55	10.33	443 7	61.3	8
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2023-12-30	12:46	54,99	10,33	443,6	61,2	8
2023-12-30	00:46	54,97	10,33	443.4	61.0	8
2022 12 20	10.40	E4.00	10.00	440.0	<u> </u>	-
2023-12-29	12:46	54,96	10,33	443,3	60,9	8
2023-12-29	00:46	54,94	10,33	443,1	60,7	8
2022 10 22	10.40	F 4 00	10.00	440.0	00.0	-
2023-12-28	12:46	54,96	10,33	443,3	60,9	8
2023-12-28	00:46	54,93	10,33	443,0	60,6	8
2023 12 27		5/ 01	10 22	1100	E0 4	0
2023-12-27	10.40	54,91	10,33	442,8	80,4	8
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2023-12-27	12:46 00:46	54,9	10,33	442,7		
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2023-12-21	00:46	54,71	10,33	440,8	58,4	8
2023-12-20	12:46	54,66	10,33	440,3	57,9	8
2023-12-20	00.46	54.65	10.33	440.2	57.8	8
2023-12-20	10.40	54,05	10,00	440,2	57,8	0
2023-12-19	12:46	54,65	10,33	440,2	57,8	8
2023-12-19	00:46	54,65	10,33	440,2	57,8	8
2023-12-18	12:46	54,64	10,33	440,1	57,7	8
2023-12-18	00:46	54.62	10.33	439.9	57.5	8
2020 12 10	10:46	E 4 62	10,00	430.0	57,5	0
2023-12-17	12.40	34,62	10,33	439,9	57,5	0
2023-12-17	00:46	54,62	10,33	439,9	57,5	8
2023-12-16	12:46	54,6	10,33	439,7	57,3	8
2023-12-16	00:46	54,59	10,33	439,6	57,2	8
2023-12-15	12.46	5/ 59	10 33	139.6	57.2	8
2023-12-13	12.40	54,55	10,55	400,0	57,2	0
2023-12-15	00:46	54,55	10,33	439,2	56,8	8
2023-12-14	12:46	54,52	10,33	438,9	56,5	8
2023-12-14	00:46	54,51	10,33	438,8	56,4	8
2023-12-13	12:46	54.5	10 33	438.7	56.3	8
2020 12 10	12.40	54.40	10,00	400,7	50,0	0
2023-12-13	00:46	54,48	10,33	438,5	56,1	8
2023-12-12	12:46	54,45	10,33	438,2	55,8	8
2023-12-12	00:46	54,45	10,33	438,2	55,8	8
2023-12-11	12:46	54.4	10.33	437.7	55.3	8
2023-12-11	00.46	5/ 39	10.33	137.6	55.2	8
2023-12-11	00.40	54,55	10,55	407,0	53,2	0
2023-12-10	12:46	54,34	10,33	437,1	54,/	8
2023-12-10	00:46	54,35	10,33	437,2	54,8	8
2023-12-09	12:46	54,36	10,33	437,3	54,9	8
2023-12-09	00:46	54.32	10.33	436.9	54.5	8
2022 12 00	10.40	E# 0	10 22	100,0 100 7	E4 3	0
2023-12-08	12.40		10,00	430,7	34,3	6
2023-12-08	00:46	54,27	10,33	436,4	54,0	8
2023-12-07	12:46	54,23	10,33	436,0	53,6	8
2023-12-07	00:46	54,21	10,33	435,8	53,4	8
2023-12-06	12.46	54 18	10.33	435.5	53.1	R
2020 12 00	00.40	EA 40	10.00	405,0	50,1	0
2023-12-06	00:46	54,16	10,33	430,3	52,9	8
2023-12-05	12:46	54,13	10,33	435,0	52,6	8
2023-12-05	00:46	54,12	10,33	434,9	52,5	8
2023-12-04	12:46	54,11	10,33	434,9	52,4	8
2023-12-04	00.46	54 05	10.33	434.3	51.8	8
2020 12 01	10:40	54,04	10,00	10 1,0	51,5	0
2023-12-03	12:46	54,04	10,33	434,2	51,7	8
2023-12-03	00:46	54,01	10,33	433,9	51,4	8
2023-12-02	12:46	54	10,33	433,8	51,3	8
2023-12-02	00:46	53,98	10,33	433,6	51,1	8
2023-12-01	12:46	53 91	10 33	432.9	50.5	8
2020 12 01	12.40	50,01	10,00	402,0	50,0	0
2023-12-01	00:46	53,9	10,33	432,8	50,4	8
2023-11-30	12:46	53,88	10,33	432,6	50,2	8
2023-11-30	00:46	53,86	10,33	432,4	50,0	8
2023-11-29	12:46	53.84	10.33	432.2	49.8	8
2023-11-29	00.46	53.83	10 33	432.1	49.7	8
2020 11 20	10.40	50.0	10,00	402,1	40,7	0
2023-11-28	12:46	53,8	10,33	431,8	49,4	8
2023-11-28	00:46	53,78	10,33	431,6	49,2	8
2023-11-27	12:46	53,77	10,33	431,5	49,1	8
2023-11-27	00:46	53,75	10,33	431,3	48,9	8
2023-11-26	12.46	53 71	10.33	430.9	48.5	8
2020 11 20	00:40	50,71	10,00	100,0	10,0	0
2023-11-26	00:46	53,71	10,33	430,9	48,5	8
2023-11-25	12:46	53,65	10,33	430,3	47,9	8
2023-11-25	00:46	53,64	10,33	430,2	47,8	8
2023-11-24	12:46	53.62	10.33	430.0	47.6	8
2023-11-24	00.46	53 50	10 33	120 7	A7 2	و
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2023-11-23	12:46	53,61	10,33	429,9	47,5	8
2023-11-23	00:46	53,6	10,33	429,8	47,4	8
2023-11-22	12:46	53,62	10,33	430,0	47,6	8
2023-11-22	00:46	53,59	10,33	429,7	47,3	8
2023-11-21	12:46	53.57	10.33	429.5	47 1	8
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2023-11-21	10.40	50,02	10,00	429,0	48,6	0
2023-11-20	12:46	53,5	10,33	428,8	46,4	8
2023-11-20	00:46	53,47	10,33	428,5	46,1	8
2023-11-19	12:46	53,46	10,33	428,4	46,0	8
2023-11-19	00:46	53.42	10.33	428.0	45.6	8
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2023-11-18	00:46	53,4	10,33	427,8	45,4	۲ ۲
2023-11-17	12:46	53,37	10,33	427,5	45,1	8
2023-11-17	00:46	53,33	10,33	427,1	44,7	8
2023-11-16	12:46	53,31	10,33	426,9	44,5	8
2023-11-16	00:46	53 24	10.33	426.2	43.8	8
		50,24 52.01	10.00	420,2		0
2020 11 10	10.10	JJ,ZI	10,33	420,9	43,5	8
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2023-11-15 2023-11-15 2023-11-14 2023-11-14 2023-11-14 2023-11-13 2023-11-12 2023-11-12 2023-11-12 2023-11-11 2023-11-11 2023-11-10	12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46	53,19 53,16 53,16 53,12 53,16 53,06 53,05 53,03 53,03 53,03 53,03	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	425,4 425,4 425,0 425,0 424,4 424,3 424,1 424,1 423,8 423,7	43,0 43,0 42,6 42,6 42,0 41,7 41,4 41,7 41,4 41,3	8 8 8 8 8 8 8 8 8 8 8 8 8
2023-11-15 2023-11-15 2023-11-14 2023-11-14 2023-11-13 2023-11-13 2023-11-12 2023-11-12 2023-11-12 2023-11-11 2023-11-11 2023-11-10	12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46	53,19 53,16 53,16 53,12 53,12 53,06 53,05 53,03 53,05 53,03 53,05 53,03 53,05 53,03	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	425,4 425,4 425,0 425,0 425,0 424,4 424,3 424,1 424,3 424,1 423,8 423,7 423,4	43,0 43,0 42,6 42,6 42,0 41,9 41,7 41,7 41,4 41,3 41,0	8 8 8 8 8 8 8 8 8 8 8 8 8 8

2023-11-09	00:46	52,9	10,33	422,8	40,4	8
2023-11-08	12:46	52,86	10,33	422,4	40,0	8
2023-11-08	00:46	52,84	10,33	422,2	39,8	8
2023-11-07	12:46	52,8	10,33	421,8	39,4	8
2023-11-07	00:46	52,76	10,33	421,4	39,0	8
2023-11-06	12:46	52,73	10,33	421,1	38,7	8
2023-11-06	00:46	52,7	10,33	420,8	38,4	8
2023-11-05	12:46	52,68	10,33	420,6	38,2	8
2023-11-05	00:46	52,66	10,33	420,4	38,0	8
2023-11-04	12:46	52,65	10,33	420,3	37,9	8
2023-11-04	00:46	52,63	10,33	420,2	37,7	8
2023-11-03	12:46	52.61	10.33	420.0	37.5	8
2023-11-03	00:46	52.61	10.33	420.0	37.5	8
2023-11-02	12:46	52.61	10.33	420.0	37.5	8
2023-11-02	00:46	52.61	10.33	420.0	37.5	8
2023-11-01	12:46	52.61	10.33	420.0	37.5	8
2023-11-01	00:46	52.57	10.33	419.6	37.1	8
2023-10-31	12:46	52.52	10.33	419.1	36.6	8
2023-10-31	00:46	52,51	10.33	419.0	36.5	8
2023-10-30	12:46	52,48	10.33	418.7	36.3	8
2023-10-30	00:46	52,45	10.33	418.4	36.0	8
2023-10-29	12:46	52.4	10.33	417.9	35.5	8
2023-10-29	00:46	52.43	10,00	418.2	35.8	8
2023-10-28	12:46	52,40	10.33	413,2		8
2023-10-20	00:46	52,00	10.33	417,3 A17 0	2/ 8	۵ و
2023-10-27	12:46	52,00	10.33	416.9	34,5	8
2023-10-27	00.46	52,5	10.33	416,5 A16 7	34,3	5 و
2023-10-27	12:46	52,20	10.33	416,7	34,3	о р
2023-10-20	00.46	52,23	10,33	410,2 //15.8	33,0	о 8
2023-10-25	12:46	52,10	10.33	415.9	33,4	8
2023-10-25	00.46	52,2	10,33	415,9 //15.9	33,3	о 8
2023-10-24	12:46	52,10	10,00	415,0 //15.0	30,4	0 و
2023-10-24	00.46	52,11	10,33	413,0 //15.0	32,0	ہ م
2023-10-24	12:46	52,11	10,33	413,0	32,0	ہ م
2023-10-23	00:46	52,00	10,33	414,3	31.5	8
2023-10-23	12:46	51.06	10,00	413,3	21.1	0
2023-10-22	12.40	51,50	10,33	413,3	20.7	0
2023-10-22	12:46	51,92	10,33	413,1	30,7	0
2023-10-21	12.40	51,92	10,33	413,1	30,7	0
2023-10-21	12:46	51,09	10,33	412,8	30,4	0
2023-10-20	12.40	51,88	10,33	412,7	30,3	0
2023-10-20	12:46	51,66	10,33	412,7	30,3	0
2023-10-19	00:46	51,80	10,33	412,3	30,1	0 8
2023-10-19	12:46	51,85	10,33	412,4	30,0	0 8
2023-10-18	12.40	51,80	10,33	412,3	29.7	0 8
2023-10-18	12:46	51,82	10,33	412,1	29,7	0
2023-10-17	12.40	51,79	10,33	411,0	29,4	0
2023-10-17	10:40	51,76	10,33	411,5	29,1	0
2023-10-10	12.40	51,69	10,33	410,6	28,4	0
2023-10-16	10:40	51,67	10,33	410,0	20,2	0
2023-10-15	12.40	51,6	10,33	409,9	27,3	0
2023-10-15	10:46	51,55	10,33	409,4	27,0	8
2023-10-14	12:46	51,46	10,33	408,5	26,1	8
2023-10-14	10:46	51,47	10,33	408,6	26,2	8
2023-10-13	12:46	51,5	10,33	408,9	26,5	8
2023-10-13	10:46	51,54	10,33	409,3	26,9	8
2023-10-12	12:46	51,5	10,33	408,9	26,5	8
2023-10-12	00:46	51,43	10,33	408,2	25,8	8
2023-10-11	12:46	51,42	10,33	408,1	25,7	8
2023-10-11	10:46	51,42	10,33	408,1	25,7	8
2023-10-10	12:46	51,51	10,33	409,0	26,6	8
2023-10-10	10:46	51,46	10,33	408,5	26,1	8
2023-10-09	12:46	51,45	10,33	408,4	26,0	8
2023-10-09	10:46	51,46	10,33	408,5	26,1	8
2023-10-08	12:46	51,46	10,33	408,5	26,1	8
2023-10-08	10:46	51,38	10,33	407,7	25,3	8
2023-10-07	12:46	51,32	10,33	407,1	24,/	8
2023-10-07	10:46	51,25	10,33	406,4	24,0	8
2023-10-06	12:46	51,33	10,33	407,2	24,8	8
2023-10-06	10:46	51,35	10,33	407,4	25,0	8
2023-10-05	12:46	51,28	10,33	406,7	24,3	8
2023-10-05	00:46	51,27	10,33	406,6	24,2	8
2023-10-04	12:46	51,25	10,33	406,4	24,0	8
2023-10-04	00:46	51,2	10,33	405,9	23,5	8
2023-10-03	12:46	51,14	10,33	405,4	22,9	8
2023-10-03	00:46	51,24	10,33	406,3	23,9	8
2023-10-02	12:46	51,22	10,33	406,1	23,7	8
2023-10-02	00:46	51,22	10,33	406,1	23,7	8
2023-10-01	12:46	51,23	10,33	406,2	23,8	8
2023-10-01	00:46	51,23	10,33	406,2	23,8	8
2023-09-30	12:46	51,18	10,33	405,7	23,3	. 8
2023-09-30	00:46	51,14	10,33	405,4	22,9	8
2023-09-29	12:46	51,13	10,33	405,3	22,8	8
2023-09-29	00:46	51,14	10,33	405,4	22,9	8
2023-09-28	12:46	51,14	10,33	405,4	22,9	8

2023-09-28 2023-09-27	00:46	51.16				0
2023-09-27		, 10	10,33	405,5	23,1	0
2020-00-27	12.46	51 18	10 33	405.7	23.3	8
	12.40	01,10	10,00	400,7	20,0	0
2023-09-27	00:46	51,18	10,33	405,7	23,3	8
2023-00-26	12.46	51.22	10 33	406.1	23.7	g
2023-09-20	12.40	51,22	10,55	400,1	23,7	0
2023-09-26	00:46	51,21	10,33	406,0	23,6	8
2023-00-25	12.46	51.2	10 33	405.9	23.5	g
2023-03-23	12.40	J1,Z	10,00	400,9	23,3	°
2023-09-25	00:46	51,22	10,33	406,1	23,7	8
2022 00 24	10.46	E1 17	10.22	40F C	22.2	0
2023-09-24	12.40	51,17	10,33	403,6	23,2	0
2023-09-24	00:46	51,1	10,33	405,0	22,5	8
2022 00 22	10.46	E1.07	10.22	404 7	22.2	0
2023-09-23	12.46	51,07	10,33	404,7	22,2	0
2023-09-23	00:46	51	10,33	404,0	21,5	8
0000.00.00	40:40	50.04	10.00	400.4	01.0	
2023-09-22	12:46	50,94	10,33	403,4	21,0	8
2023-09-22	00:46	50,98	10,33	403,8	21,4	8
0000.00.01	10.40	51.00	10.00	404.0	01.7	0
2023-09-21	12.46	51,02	10,33	404,2	21,7	0
2023-09-21	00:46	51,04	10,33	404,4	21,9	8
2022 00 20	12.46	51	10.22	404.0	21.5	0
2023-09-20	12.40	51	10,55	404,0	21,5	0
2023-09-20	00:46	50,95	10,33	403,5	21,1	8
2022 00 10	12.46	50.95	10.22	402.5	21.1	0
2023-03-13	12.40	50,95	10,55	403,5	21,1	0
2023-09-19	00:46	50,98	10,33	403,8	21,4	8
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2023-03-10	12.40	51,01	10,00	404,1	21,0	°
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2023-00-17	12.46	51 11	10 32	/05.1		0
2020-00-17	12.40	51,11	10,00	403,1	22,0	°
2023-09-17	00:46	51,06	10,33	404,6	22,1	8
2023-09-16	12.46	51.1	10.33	<i>4</i> 05 0	22.5	Q
2020-00-10	12.40		10,00	403,0	22,3	0
2023-09-16	00:46	51,12	10,33	405,2	22,7	8
2023-09-15	12:46	51 13	10.33	405.3	22.8	8
2020 00 10			10,00	+00,0	22,0	
2023-09-15	00:46	51,12	10,33	405,2	22,7	8
2023-09-14	12.46	51 14	10.33	405.4	22.9	R
2020 00 14	12.40	-	10,00		22,5	0
2023-09-14	00:46	51,1	10,33	405,0	22,5	8
2023-09-13	12.46	51 08	10.33	40A 8		R
2020-00-10	12.40		10,00	404,0	22,3	0
2023-09-13	00:46	51,07	10,33	404,7	22,2	8
2023-09-12	12.46	51 08	10.33	404 s		R
2023-03-12	12.40	51,00	10,00	404,0	22,3	°
2023-09-12	00:46	51,05	10,33	404,5	22,0	8
2023-00-11	12.46	51 11	10 33	405.1	22.6	8
2023-09-11	12.40	51,11	10,03	403,1	22,6	8
2023-09-11	00:46	51,16	10,33	405,5	23,1	8
2022 00 10	10.10	E1 10	10 22	10F 2	<u></u>	0
2023-09-10	12.40	51,13	10,03	400,3	22,8	8
2023-09-10	00:46	51,12	10,33	405,2	22,7	8
2023 00 00	10.40	51.14	10 22	10F 4	22.0	0
2023-09-09	12:46	51,14	10,33	405,4	22,9	8
2023-09-09	00:46	51,17	10,33	405,6	23,2	8
2023 00 00	10.40	E1 0	10 22	40E 0	00 E	0
2023-09-08	12.40	J1,Z	10,03	400,9	23,5	8
2023-09-08	00:46	51,26	10,33	406,5	24,1	8
2023-00-07	12.46	51 27	10 33	406.6	24.2	8
2023-03-07	12.40	51,27	10,00	400,0	24,2	0
2023-09-07	00:46	51,25	10,33	406,4	24,0	8
2023-09-06	12.46	51.27	10.33	406.6	24.2	8
2020 00 00	12.40	01,27	10,00	400,0	24,2	0
2023-09-06	00:46	51,24	10,33	406,3	23,9	8
2023-09-05	12.46	51 27	10.33	406.6	24.2	8
2020 00 00	12.40	01,27	10,00	400,0	24,2	
2023-09-05	00:46	51,26	10,33	406,5	24,1	8
2023-09-04	12:46	51.25	10.33	406.4	24.0	8
2020 00 01	22.10	51,20	10,00	100,1	2.10	
2023-09-04	00:46	51,24	10,33	406,3	23,9	8
2023-09-03	12:46	51,2	10,33	405,9	23,5	8
0000.00.00	00:40	51.01	10.00	400.0		
2023-09-03	00:46	51,21	10,33	406,0	23,6	8
2023-09-02	12:46	51.16	10.22	105.5	23.1	
0000 00 02	00.40	51,10	10.00	405.5	20,1	8
2023-09-02	00:46		10,33	405,5	~~~~	8
2023-09-01		51,15	10,33	405,5 405,4	23,0	8 8
	12:46	51,15 51,12	10,33 10,33 10,33	405,5 405,4 405.2	23,0	8 8 8
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2023-09-01	12:46 00:46	51,15 51,12 51,11	10,33 10,33 10,33 10,33	405,5 405,4 405,2 405,1	23,0 22,7 22,6	8 8 8 8
2023-09-01 2023-08-31	12:46 00:46 12:46	51,15 51,12 51,11 51,08	10,33 10,33 10,33 10,33 10,33	405,5 405,4 405,2 405,1 404,8	23,0 22,7 22,6 22,3	8 8 8 8 8
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2023-09-01 2023-08-31 2023-08-31 2023-08-30 2023-08-30 2023-08-29 2023-08-29	12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46	51,15 51,12 51,11 51,08 51,08 51,08 51,15 51,15 51,14 51,14 51,14	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	405,5 405,4 405,2 405,1 404,8 404,8 404,8 405,0 405,4 405,4 405,4	23,0 22,7 22,6 22,3 22,3 22,5 23,0 22,9 22,9 23,1	8 8 8 8 8 8 8 8 8 8 8 8 8
2023-09-01 2023-08-31 2023-08-31 2023-08-30 2023-08-30 2023-08-29 2023-08-29	12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46	51,15 $51,12$ $51,11$ $51,08$ $51,08$ $51,08$ $51,08$ $51,15$ $51,14$ $51,16$	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	405,5 405,4 405,2 405,1 404,8 404,8 405,0 405,4 405,4 405,5	23,0 22,7 22,6 22,3 22,3 22,5 23,0 22,9 23,1 22,9	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
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2023-08-14	12:46	51,32	10,33	407,1	24,7	8
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2023-08-14	00:46	51,34	10,33	407,3	24,9	8
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2023-08-13	00:46	51,27	10,33	406,6	24,2	8
2023-08-12	12:46	51.32	10.33	407.1	24.7	8
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2023-07-31	12.40	51,14	10,55	403,4	22,5	0
2023-07-31	00:46	51,17	10,33	405,6	23,2	8
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2023-07-30	12.40	51,18	10,33	405,7	23,3	0
2023-07-30	00:46	51,17	10,33	405,6	23,2	8
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2023-07-29	12:46	51,17	10,33	405,6	23,2	8
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2023-07-28	12.40	51,19	10,33	405,8	23,4	0
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2023-07-27	12:46	51,14	10,33	405,4	22,9	8
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2023-07-26	12:46	51,18	10,33	405,7	23,3	8
2023-07-26	00:46	51,16	10,33	405,5	23,1	8
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2023-07-25	12:46	51,11	10,33	4051	22,6	8
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2023-07-06	00:46	51,2	10,33	405,9	23,5	8
2023-07-05	12:46	51,23	10,33	406,2	23,8	8
2022 07 05	00.46	E1.00	10.22	406 E	24.1	0
2023-07-03	00.46	51,26	10,33	406,3	24,1	0
2023-07-04	12:46	51,2	10,33	405,9	23,5	8
2023-07-04	00:46	51,21	10,33	406,0	23,6	8
2023-07-03	12.46	51.18	10 33	/05.7	23.3	8
2023-07-03	12.40	51,10	10,33	403,7	23,3	0
2023-07-03	00:46	51,18	10,33	405,7	23,3	8
2023-07-02	12:46	51.14	10.33	405.4	22.9	8
2022 07 02	00.46	E1 16	10.22	40E E	22.1	0
2023-07-02	00.40	51,10	10,33	405,5	23,1	0
2023-07-01	12:46	51,16	10,33	405,5	23,1	8
2023-07-01	00:46	51,23	10,33	406,2	23,8	8
2002 00 20	10.40	F1 20	10.00	100 F	211	0
2023-06-30	12:46	51,26	10,33	406,5	24,1	8
2023-06-30	00:46	51,27	10,33	406,6	24,2	8
2023-06-29	12:46	51.31	10.33	407.0	24.6	8
2022.06.20	00.46	51.26	10.22	407.5	25.1	0
2023-00-29	00.40	51,30	10,33	407,3	23,1	0
2023-06-28	12:46	51,33	10,33	407,2	24,8	8
2023-06-28	00:46	51,31	10,33	407,0	24,6	8
2023-06-27	12.46	51.3	10.33	106.9	24.5	8
2023-00-27	12.40	51,5	10,55	400,5	24,5	0
2023-06-27	00:46	51,34	10,33	407,3	24,9	8
2023-06-26	12:46	51,28	10,33	406,7	24,3	8
2023-06-26	00.46	51 35	10.33	407.4	25.0	8
2020 00 20	00.40	01,00	10,00	407,4	20,0	0
2023-06-25	12:46	51,37	10,33	407,6	25,2	8
2023-06-25	00:46	51,36	10,33	407,5	25,1	8
2023-06-24	12.46	51 22	10 33	407.2	2 <i>1</i> Q	Q
2022 00 24	00.40	E1 01	10.00	407.0	24,0	
2023-06-24	UU:46	51,34	10,33	407,3	24,9	8
2023-06-23	12:46	51,33	10,33	407,2	24,8	8
2023-06-23	00.46	51.3	10.33	406 9	24 5	8
0000 00 00	40.40	51,5	10,00	400,0	24,5	-
2023-06-22	12:46	51,32	10,33	407,1	24,7	8
2023-06-22	00:46	51,32	10,33	407,1	24,7	8
2023-06-21	12.46	51 28	10.33	406 7	24.3	8
2020-00-21	12.40	51,20	10,00	405,7	24,3	
2023-06-21	UU:46	51,31	10,33	407,0	24,6	8
2023-06-20	12:46	51,31	10,33	407,0	24,6	8
2023-06-20	00.46	51 31	10.33	407.0	24.6	8
2020 00 20	40:40	51,01	10,00	407,0	24,0	0
2023-06-19	12:46	51,29	10,33	406,8	24,4	8
2023-06-19	00:46	51,31	10,33	407,0	24,6	8
2023-06-18	12.46	51.31	10.33	407.0	24.6	8
2020 00 10	00:40	51,01	10,00	107,0	21,0	0
2023-06-18	00:46	51,34	10,33	407,3	24,9	8
2023-06-17	12:46	51,27	10,33	406,6	24,2	8
2023-06-17	00.46	51.33	10.33	407.2	24.8	8
2020 00 17	10:40	51,00	10,00	107,2	21,3	0
2023-06-16	12:46	51,32	10,33	407,1	24,7	8
2023-06-16	00:46	51,34	10,33	407,3	24,9	8
2023-06-15	12:46	51.36	10.33	407.5	25.1	8
2022.06.15	00.46	51.42	10.22	109.1	25.7	0
2023-00-13	00.40	51,42	10,33	406,1	23,7	0
2023-06-14	12:46	51,38	10,33	407,7	25,3	8
2023-06-14	00:46	51,4	10,33	407,9	25,5	8
2022.06.12	12.46	51 //	10.22	100.2	25.0	0
2023-00-13	12.40	51,44	10,33	406,3	23,9	0
2023-06-13	00:46	51,43	10,33	408,2	25,8	8
2023-06-12	12:46	51,43	10,33	408,2	25,8	8
2023-06-12	00.46	51 /7	10 33	108.6	26.2	8
2023-00-12	00.40	51,47	10,55	400,0	20,2	0
2023-06-11	12:46	51,47	10,33	408,6	26,2	8
2023-06-11	00:46	51,49	10,33	408,8	26,4	8
2023-06-10	12.46	51 /7	10.33	108.6	26.2	8
2020 00 10	12.40	51,47	10,00	400,0	20,2	0
2023-06-10	00:46	51,46	10,33	408,5	26,1	8
2023-06-09	12:46	51,43	10,33	408,2	25,8	8
2023-06-09	00:46	51.38	10.33	407 7	25.3	8
2022.06.00	10.40	E1 00	10.00	407 5	20,0	0
2023-06-08	12:46	51,36	10,33	407,5	25,1	8
2023-06-08	00:46	51,41	10,33	408,0	25,6	8
2023-06-07	12:46	51,42	10,33	408.1	25.7	8
2023-06-07	00.46	51 / 2	10 33	408.1	25.7	Q
2020 00 07	10.40	51,42 E4 00	10.00	407.7	23,7	5
2023-00-06	12:46	51,38	10,33	407,7	25,3	8
2023-06-06	00:46	51,45	10,33	408,4	26,0	8
2023-06-05	12:46	51,41	10,33	408.0	25.6	8
2023-06-05	00.46	51 /7	10 32	a 90k	 ר ה	p
2020-00-00	00.40	51,47	10,00	400,0	20,2	0
2023-06-04	12:46	51,42	10,33	408,1	25,7	8
2023-06-04	00:46	51,45	10,33	408,4	26,0	8
2023-06-03	12.46	51 //	10.33	2 AUV 3	25.0	Q
0000 00 00	00.40	51,44	10,00	400,0	23,5	-
2023-06-03	UU:46	51,47		////26	26,2	8
2022.06.02			10,33	400,0		
2023-00-02	12:46	51,45	10,33	408,4	26,0	8
2023-06-02	12:46 00:46	51,45 51.4	10,33 10,33 10.33	408,4	26,0 25.5	8
2023-06-02	12:46 00:46	51,45 51,4	10,33 10,33 10,33	400,0 408,4 407,9	26,0 25,5	8
2023-06-02 2023-06-02 2023-06-01	12:46 00:46 12:46	51,45 51,4 51,36	10,33 10,33 10,33 10,33	400,0 408,4 407,9 407,5	26,0 25,5 25,1	8 8 8
2023-06-02 2023-06-01 2023-06-01	12:46 00:46 12:46 00:46	51,45 51,4 51,36 51,35	10,33 10,33 10,33 10,33 10,33	408,0 408,4 407,9 407,5 407,4	26,0 25,5 25,1 25,0 25,0	8 8 8 8
2023-06-02 2023-06-01 2023-06-01 2023-06-01 2023-05-31	12:46 00:46 12:46 00:46 12:46	51,45 51,4 51,36 51,35 51,35 51,37	10,33 10,33 10,33 10,33 10,33 10,33 10,33	400,0 408,4 407,9 407,5 407,4 407,4 407.6	26,0 25,5 25,1 25,0 25,0 25,2	8 8 8 8 8
2023-06-02 2023-06-02 2023-06-01 2023-06-01 2023-05-31	12:46 00:46 12:46 00:46 12:46	51,45 51,4 51,36 51,35 51,37 51,37	10,33 10,33 10,33 10,33 10,33 10,33	400,0 400,0 400,9 407,9 407,5 407,4 407,6 400,4	26,0 25,5 25,1 25,0 25,2 25,2	8 8 8 8 8
2023-06-02 2023-06-02 2023-06-01 2023-06-01 2023-05-31 2023-05-31	12:46 00:46 12:46 00:46 12:46 00:46	51,45 51,4 51,36 51,35 51,35 51,37 51,45	10,33 10,33 10,33 10,33 10,33 10,33 10,33	400,0 408,4 407,9 407,5 407,4 407,6 408,4	26,0 25,5 25,1 25,0 25,2 26,0 26,0	8 8 8 8 8 8 8 8
2023-06-02 2023-06-02 2023-06-01 2023-06-01 2023-05-31 2023-05-31 2023-05-30	12:46 00:46 12:46 00:46 12:46 00:46 12:46	51,45 51,4 51,36 51,35 51,35 51,37 51,45 51,44	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	408,3 408,4 407,9 407,5 407,4 407,6 408,4 408,4 408,3	26,0 25,5 25,1 25,0 25,0 25,0 26,0 25,9	8 8 8 8 8 8 8 8 8
2023-06-02 2023-06-01 2023-06-01 2023-05-01 2023-05-31 2023-05-30 2023-05-30	12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46	51,45 $51,4$ $51,36$ $51,35$ $51,37$ $51,45$ $51,44$ $51,39$	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	408,4 408,4 407,9 407,5 407,4 407,6 408,4 408,4 408,3 407,8	26,0 25,5 25,1 25,0 25,2 26,0 25,9 25,9 25,4	8 8 8 8 8 8 8 8 8 8 8
2023-06-02 2023-06-02 2023-06-01 2023-05-01 2023-05-31 2023-05-30 2023-05-30 2023-05-30	12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46	51,45 $51,4$ $51,36$ $51,35$ $51,37$ $51,45$ $51,44$ $51,39$ $51,39$ $51,39$	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	408,4 408,4 407,5 407,5 407,4 407,6 408,4 408,3 407,8 407,8	26,0 25,5 25,1 25,0 25,0 25,2 26,0 25,9 25,4	8 8 8 8 8 8 8 8 8 8 8
2023-06-02 2023-06-01 2023-06-01 2023-05-31 2023-05-31 2023-05-30 2023-05-30 2023-05-30	12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46	51,45 $51,4$ $51,36$ $51,35$ $51,37$ $51,45$ $51,44$ $51,39$ $51,39$ $51,39$	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	408,4 408,4 407,9 407,5 407,4 407,6 408,4 408,3 407,8 407,8 407,8	26,0 25,5 25,1 25,0 25,0 26,0 25,9 25,9 25,4 25,4	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
2023-06-02 2023-06-01 2023-06-01 2023-05-31 2023-05-31 2023-05-30 2023-05-30 2023-05-30 2023-05-29 2023-05-29	12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46	51,45 $51,4$ $51,36$ $51,37$ $51,37$ $51,45$ $51,44$ $51,39$ $51,39$ $51,39$ $51,39$	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	408,4 408,4 407,9 407,5 407,4 407,6 408,4 408,3 407,8 407,8 407,7	26,0 25,5 25,1 25,0 25,2 26,0 25,9 25,4 25,4 25,4 25,3	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
2023-06-02 2023-06-02 2023-06-01 2023-05-31 2023-05-31 2023-05-30 2023-05-30 2023-05-29 2023-05-29 2023-05-28	12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46	$\begin{array}{r} 51,45\\ 51,4\\ 51,36\\ 51,35\\ 51,35\\ 51,35\\ 51,45\\ 51,44\\ 51,39\\ 51,39\\ 51,39\\ 51,38\\ \hline \\ 51,39\\ 51,38\\ \hline \\ 51,39\\ 51,38\\ \hline \end{array}$	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	408,4 408,4 407,5 407,5 407,4 407,6 408,4 408,3 407,8 407,8 407,8 407,7 407,8	26,0 25,5 25,1 25,0 25,0 26,0 25,9 25,4 25,4 25,4 25,4 25,4 25,4	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
2023-06-02 2023-06-01 2023-06-01 2023-05-31 2023-05-31 2023-05-30 2023-05-30 2023-05-30 2023-05-29 2023-05-28	12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46	51,45 $51,4$ $51,36$ $51,35$ $51,37$ $51,45$ $51,44$ $51,39$ $51,39$ $51,39$ $51,39$ $51,39$ $51,39$ $51,39$ $51,39$ $51,39$ $51,39$ $51,39$ $51,39$ $51,39$ $51,39$ $51,31$	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	408,4 408,4 407,9 407,5 407,4 407,6 408,4 408,3 407,8 407,8 407,8 407,7 407,8 407,8	26,0 25,5 25,1 25,0 25,0 26,0 25,9 25,4 25,4 25,3 25,4 25,4 25,4	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
2023-06-02 2023-06-01 2023-06-01 2023-05-31 2023-05-31 2023-05-30 2023-05-30 2023-05-29 2023-05-29 2023-05-28 2023-05-28 2023-05-28	12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46	51,45 $51,4$ $51,36$ $51,37$ $51,45$ $51,44$ $51,39$ $51,39$ $51,39$ $51,39$ $51,39$ $51,39$ $51,39$ $51,30$	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	400,3 408,4 407,9 407,5 407,4 407,6 408,4 408,4 408,3 407,8 407,8 407,7 407,8 407,8 408,1	26,0 25,5 25,1 25,0 25,2 26,0 25,9 25,4 25,4 25,3 25,4 25,7	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
2023-06-02 2023-06-02 2023-06-01 2023-05-31 2023-05-31 2023-05-30 2023-05-30 2023-05-29 2023-05-29 2023-05-28 2023-05-28 2023-05-27	12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46	$\begin{array}{r} 51,45\\ 51,4\\ 51,36\\ 51,35\\ 51,35\\ 51,35\\ 51,45\\ 51,44\\ 51,39\\ 51,38\\ 51,39\\ 51,38\\ 51,39\\ 51,32\\ 51,42\\ 51,47\\ 51,$	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	408,4 408,4 407,5 407,5 407,4 407,6 408,4 408,3 407,8 407,8 407,7 407,8 407,7 407,8 408,1 408,1	26,0 25,5 25,1 25,0 25,0 26,0 25,9 25,4 25,4 25,4 25,3 25,4 25,3 25,4 25,7 26,2	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
2023-06-02 2023-06-01 2023-06-01 2023-05-31 2023-05-31 2023-05-30 2023-05-30 2023-05-30 2023-05-29 2023-05-28 2023-05-27 2023-05-27	12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 00:46	$\begin{array}{c} 51,45\\ 51,4\\ 51,36\\ 51,35\\ 51,37\\ 51,45\\ 51,44\\ 51,39\\ 51,39\\ 51,38\\ 51,39\\ 51,38\\ 51,39\\ 51,47\\ 51,$	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	408,4 408,4 407,9 407,5 407,4 407,6 408,4 408,3 407,8 407,8 407,7 407,8 407,7 407,8 407,8 407,8 408,6 408,6 408,6	26,0 25,5 25,1 25,0 25,2 26,0 25,9 25,4 25,4 25,3 25,4 25,7 25,7 26,2 26,2	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
2023-06-02 2023-06-01 2023-06-01 2023-05-31 2023-05-31 2023-05-30 2023-05-30 2023-05-29 2023-05-29 2023-05-28 2023-05-28 2023-05-27 2023-05-27 2023-05-27	12:46 00:46 12:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46	$\begin{array}{r} 51,45\\ \hline 51,4\\ 51,36\\ \hline 51,35\\ \hline 51,37\\ \hline 51,45\\ \hline 51,44\\ \hline 51,39\\ \hline 51,39\\ \hline 51,39\\ \hline 51,39\\ \hline 51,39\\ \hline 51,39\\ \hline 51,42\\ \hline 51,47\\ \hline 51,47\\ \hline 51,46\\ \end{array}$	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	408,4 408,4 407,9 407,5 407,4 407,6 408,4 408,3 407,8 407,8 407,7 407,8 407,8 408,1 408,6 408,6 408,6 408,6	26.0 25.5 25.1 25.0 25.2 26.0 25.9 25.4 25.4 25.4 25.3 25.4 25.7 26.2 26.2 26.2 26.2	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
2023-06-02 2023-06-02 2023-06-01 2023-05-31 2023-05-31 2023-05-30 2023-05-30 2023-05-29 2023-05-29 2023-05-28 2023-05-28 2023-05-27 2023-05-27 2023-05-27	12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46	$\begin{array}{c} 51,45\\ 51,4\\ 51,36\\ 51,35\\ 51,35\\ 51,37\\ 51,45\\ 51,44\\ 51,39\\ 51,39\\ 51,38\\ 51,39\\ 51,38\\ 51,39\\ 51,42\\ 51,47\\ 51,47\\ 51,47\\ 51,46\\ 51,$	10,33 10,33	408,4 408,4 407,5 407,5 407,4 407,6 408,4 407,6 408,4 407,8 407,8 407,8 407,7 407,8 407,7 407,8 408,1 408,6 408,6 408,6 408,6 408,5 408,6 407,5 407,5 407,5 407,6 407,7 407,6 407,7 407,6 407,7 407,8 407,7 407,8 407,7 407,8 407,7 407,8 407,8 407,8 407,8 407,8 407,8 407,8 407,8 408,1 407,8 400,8 407,8 40,8 40,8 40,8 40,8 40,8 40,8 40,8 40	26.0 25,5 25,1 25,1 25,0 26,0 25,2 26,0 25,4 25,4 25,4 25,3 25,4 25,3 25,4 25,7 26,2 26,2 26,2 26,2 26,2 26,2 26,1	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
2023-06-02 2023-06-01 2023-06-01 2023-05-31 2023-05-31 2023-05-30 2023-05-30 2023-05-30 2023-05-29 2023-05-28 2023-05-28 2023-05-27 2023-05-27 2023-05-26	12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46	$\begin{array}{r} 51,45\\ 51,4\\ 51,36\\ 51,35\\ 51,37\\ 51,45\\ 51,44\\ 51,39\\ 51,39\\ 51,39\\ 51,38\\ 51,39\\ 51,39\\ 51,42\\ 51,47\\ 51,47\\ 51,47\\ 51,46\\ 51,45\\ \end{array}$	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	400,3 408,4 407,9 407,5 407,4 407,6 408,3 407,6 408,3 407,8 407,8 407,7 407,8 407,7 407,8 408,1 408,6 408,6 408,6 408,5	26,0 25,5 25,1 25,0 25,0 26,0 25,9 25,4 25,4 25,3 25,4 25,7 25,7 26,2 26,2 26,2 26,1 26,0	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

2022 04 12	00.46	E1 62	10.22	410.2	27.0	0
2023-04-13	00.46	51,65	10,33	410,2	27,0	0
2023-04-12	12:46	51,66	10,33	410,5	28,1	8
2023-04-12	00:46	51.69	10.33	410.8	28.4	8
2022 04 11	10:46	E1.6	10.22	400.0	27,5	0
2023-04-11	12:46	51,6	10,33	409,9	27,5	8
2023-04-11	00:46	51,68	10,33	410,7	28,3	8
2023-04-10	12:46	51.84	10.33	412.3	29.9	8
2022 04 10	00:46	E1 95	10.22	412.4	30.0	0
2023-04-10	00.46	51,65	10,33	412,4	30,0	0
2023-04-09	12:46	51,88	10,33	412,7	30,3	8
2023-04-09	00:46	51.88	10.33	412.7	30.3	8
2022 04 09	10:46	E1 01	10.22	412.0	20,6	-
2023-04-06	12.40	51,91	10,55	413,0	30,6	0
2023-04-08	00:46	51,89	10,33	412,8	30,4	8
2023-04-07	12:46	51.87	10.33	412.6	30.2	8
2022 04 07	00.46	E1.96	10.22	410 5	30.1	0
2023-04-07	00.40	51,80	10,55	412,5	30,1	0
2023-04-06	12:46	51,84	10,33	412,3	29,9	8
2023-04-06	00:46	51,85	10,33	412,4	30,0	8
2022 04 05	12.46	51 97	10.22	412.6	30.3	0
2023-04-03	12.40	51,67	10,55	412,0	30,2	0
2023-04-05	00:46	51,9	10,33	412,9	30,5	8
2023-04-04	12:46	51,92	10,33	413,1	30,7	8
2023-04-04	00.46	51 94	10.33	413.3	30.9	8
2020 04 04	10:40	51,04	10,00	410,0	00,0	0
2023-04-03	12:46	51,99	10,33	413,8	31,4	8
2023-04-03	00:46	52	10,33	413,9	31,5	8
2023-04-02	12.46	51 92	10.33	413.1	30.7	8
2020 04 02	12.40	51,02	10,00	410,1	00,7	0
2023-04-02	UU:46	51,87	10,33	412,6	30,2	8
2023-04-01	12:46	51,76	10,33	411,5	29,1	8
2023-04-01	00:46	51.72	10.33	411.1	28.7	8
2022 02 24	10.40	,/ L	10.00	410.0	20,7	0
2023-03-31	12:46	51,7	10,33	410,9	28,5	8
2023-03-31	00:46	51,67	10,33	410,6	28,2	8
2023-03-30	12:46	51.71	10.33	411.0	28.6	8
2022 02 20	00.46	51 70	10 22	/11 7	20,0	0
2023-03-30	00.40	51,78	10,03	411,7	29,3	0
2023-03-29	12:46	51,78	10,33	411,7	29,3	8
2023-03-29	00:46	51,84	10,33	412.3	29.9	8
2022 02 20	10.40	51.02	10.22	/10 0	20.0	0
2023-03-28	12.46	51,93	10,33	413,2	30,8	8
2023-03-28	00:46	51,86	10,33	412,5		8
2023-03-27	12:46	51.82	10.33	412.1	29.7	8
2022 02 27	00.46	51.94	10.22	/10.2	20.0	0
2023-03-27	00:46	51,84	10,33	412,3	29,9	8
2023-03-26	12:46	51,8	10,33	411,9	29,5	8
2023-03-26	00:46	51.77	10.33	411.6	29.2	8
2022 02 25	10:46	E1 76	10.22	411 5	20.1	0
2023-03-25	12:46	51,76	10,33	411,5	29,1	8
2023-03-25	00:46	51,74	10,33	411,3	28,9	8
2023-03-24	12:46	51,72	10,33	411,1	28,7	8
2022 02 24	00:46	E1.96	10.22	410 5	30.1	0
2023-03-24	00.46	51,00	10,33	412,5	30,1	0
2023-03-23	12:46	51,85	10,33	412,4		8
2023-03-23	00:46	51,92	10,33	413,1	30,7	8
2023-03-22	12.46	51.92	10 33	/13.1	30.7	8
2023-03-22	12.40	51,92	10,33	413,1	30,7	0
2023-03-22	00:46	51,99	10,33	413,8	31,4	8
2023-03-21	12:46	52,1	10,33	414,9	32,5	8
2023-03-21	00.46	52 11	10.33	415.0	32.6	8
2023-03-21	00.40	52,11	10,55	413,0	32,0	0
2023-03-20	12:46	52,08	10,33	414,/	32,3	8
2023-03-20	00:46	52,15	10,33	415,4	33,0	8
2023-03-19	12.46	52 18	10.33	415 7	33.3	8
2002 02 10	00.40	50,01	10.00	410.0	22,2	-
2023-03-19	00:46	52,21	10,33	416,0	33,6	8
2023-03-18	12:46	52,15	10,33	415,4	33,0	8
2023-03-18	00:46	52.16	10.33	415.5	33.1	8
2022 02 17	10.40	E0.0	10.00	415.0	00.5	0
2023-03-17	12.40	JZ,Z	10,00	413,9		0
2023-03-17	00:46	52,26	10,33	416,5	34,1	8
2023-03-16	12:46	52,3	10,33	416,9	34,5	8
2023-03-16	00.46	52.28	10.33	A16 7	34.3	Q
0000 00 15	40.40	52,20	10.00		54,5	5
2023-03-15	12:46	52,27	10,33	416,6	34,2	8
2023-03-15	00:46	52,22	10,33	416,1	33,7	8
2023-03-14	12:46	52,04	10,33	414.3	31.9	8
2022 02 14	00.40	ED 04	10.22	,,- /1/ 0	21.0	0
2023-03-14	00.40	52,04	10,00	414,3	31,9	0
2023-03-13	12:46	52,1	10,33	414,9	32,5	8
2023-03-13	00:46	52,28	10,33	416,7	34,3	8
2023-03-12	12.46	52.37	10.33	417.6	35.2	8
0000 00 12	00.40	52,07	10.00		00,2	-
2023-03-12	00:46	52,34	10,33	41/,3	34,9	8
2023-03-11	12:46	52,37	10,33	417,6	35,2	8
2023-03-11	00:46	52.4	10.33	417.9	35.5	8
2022 02 11	10.40	E0 00	10 00	417.0	05,0 05 4	- -
2023-03-10	12.40	52,39	10,33	41/,8	35,4	8
2023-03-10	00:46	52,46	10,33	418,5	36,1	8
2023-03-09	12:46	52.46	10,33	418.5	36.1	8
2022 02 00	00.46	E0 E1	10 22	/10.0	26 E	0
2023-03-09	00.46	52,51	10,33	419,0	36,5	8
2023-03-08	12:46	52,54	10,33	419,3	36,8	8
2023-03-08		52 54	10,33	419,3	36,8	8
2020 00 00	00:46	02,01		418 5	36.1	Q
2020 00 00	00:46	52,01	10 22	410.0	30,1	0
2023-03-07	00:46	52,46	10,33			
2023-03-07 2023-03-07	00:46 12:46 00:46	52,31 52,46 52,71	10,33 10,33	420,9	38,5	8
2023-03-07 2023-03-07 2023-03-06	00:46 12:46 00:46 12:46	52,71 52,82	10,33 10,33 10,33	420,9	38,5 39,6	8
2023-03-07 2023-03-07 2023-03-06 2023-03-06	00:46 12:46 00:46 12:46 00:46	52,46 52,71 52,82 52,82 52,91	10,33 10,33 10,33 10,33	420,9 422,0 422,0	38,5 39,6 40 5	8 8 8
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2023-03-07 2023-03-07 2023-03-06 2023-03-06 2023-03-05	00:46 12:46 00:46 12:46 00:46 12:46	52,46 52,71 52,82 52,91 53,05	10,33 10,33 10,33 10,33 10,33 10,33	420,9 422,0 422,9 422,9 424,3	38,5 39,6 40,5 41,9	8 8 8 8
2023-03-07 2023-03-07 2023-03-06 2023-03-06 2023-03-06 2023-03-05 2023-03-05	00:46 12:46 00:46 12:46 00:46 12:46 00:46	52,46 52,71 52,82 52,91 53,05 53,05 53,2	10,33 10,33 10,33 10,33 10,33 10,33	420,9 422,0 422,9 422,9 424,3 425,8	38,5 39,6 40,5 41,9 43,4	8 8 8 8 8
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2023-03-07 2023-03-07 2023-03-06 2023-03-06 2023-03-06 2023-03-05 2023-03-04 2023-03-04	00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46	52,46 52,71 52,82 52,91 53,05 53,2 53,32 53,32 53,45	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	420,9 422,0 422,9 424,3 425,8 425,8 427,0 428,3	38,5 39,6 40,5 41,9 43,4 44,6 45,9	8 8 8 8 8 8 8 8 8
2023-03-07 2023-03-07 2023-03-06 2023-03-06 2023-03-05 2023-03-05 2023-03-04 2023-03-04 2023-03-04	00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46	52,46 52,71 52,82 52,91 53,05 53,22 53,32 53,32 53,32 53,71	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	420,9 422,0 422,0 422,9 424,3 425,8 427,0 428,3 427,0 428,3 430,9	38,5 39,6 40,5 41,9 43,4 44,6 44,6 45,9 45,9	8 8 8 8 8 8 8 8 8 8
2023-03-07 2023-03-07 2023-03-06 2023-03-06 2023-03-05 2023-03-05 2023-03-04 2023-03-04 2023-03-04 2023-03-03 2023-03-03	00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46	52,46 52,71 52,82 52,91 53,05 53,2 53,32 53,32 53,45 53,71 54,03	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	420,9 422,0 422,9 424,3 425,8 427,0 428,3 427,0 428,3 430,9 430,9	38,5 39,6 40,5 41,9 43,4 44,6 45,9 48,5 51,6	8 8 8 8 8 8 8 8 8 8 8 8
2023-03-07 2023-03-07 2023-03-06 2023-03-06 2023-03-06 2023-03-05 2023-03-04 2023-03-04 2023-03-04 2023-03-03 2023-03-03	00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46 12:46 00:46	52,46 52,71 52,82 52,91 53,05 53,2 53,32 53,45 53,71 54,03	10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33 10,33	420,9 422,0 422,0 422,9 424,3 425,8 427,0 428,3 430,9 433,1 430,9	38,5 39,6 40,5 41,9 43,4 44,6 45,9 48,5 51,6	8 8 8 8 8 8 8 8 8 8 8 8 8

2023-03-02	00:46	55,07	10,33	444,4	62,0	8
2023-03-01	12:46	56,03	10,33	453,9	71,5	8
2023-03-01	00:46	58,06	10,33	474,1	91,7	8
2023-02-28	21:46	59,09	10,33	484,3	101,9	8