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Äspö Hard Rock Laboratory

Prototype Repository

Hydrogeology – Deposition- and lead-through boreholes: Inflow measurements, hydraulic responses and hydraulic tests

Torbjörn Forsmark Ingvar Rhén VBB Viak Christer Andersson Svensk Kärnbränslehantering AB

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Äspö Hard Rock Laboratory

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This report concerns a study which was conducted for SKB. The conclusions and viewpoints presented in the report are those of the author(s) and do not necessarily coincide with those of the client.

ABSTRACT

The Prototype Repository Test is focused on testing and demonstrating the function of the SKB deep repository system. Activities aimed at contributing to development and testing of the practical, engineering measures required to rationally perform the steps of a deposition sequence are also included in the project but are also part of other projects.

The characterisation is made in three stages. Each stage is intended to contribute to more details useful for the determination of the localisation of the deposition holes and also the boundary and rock conditions needed for the interpretation of the experimental data.

This report describes

- the inflow measurements
 - into the prototype tunnel
 - to the deposition boreholes
 - to the lead-through boreholes between tunnel A and tunnel G

It also

- details the pressure responses observed during the drilling of the deposition holes
- details the pressure responses observed during the drilling of the lead-through boreholes
- presents the results from four pressure build-up tests made in the three lead-through boreholes
- presents the pressure observations made during blasting work in the Prototype Repository Tunnel

SAMMANFATTNING

Huvudsyftet med prototypförvaret är att testa och demonstrera funktionen av en del av SKB:s djupförvars system. Aktiviteter som syftar till utveckling och försök av praktiska och ingenjörsmässiga lösningar, som krävs för att på ett rationellt sätt kunna stegvis utföra deponeringen av kapslar med kärnbränsle, är inkluderade i prototypförvarsprojektet men även i andra projekt.

Karakteriseringen av bergmassan genomförs i tre steg. Varje steg syftar till att bidra med fler detaljer som skall vara användbara för att kunna lokalisera depositionshål och för att också kunna bestämma randvillkor och bergegenskaper som behövs för att kunna tolka experimentella data.

Denna rapport behandlar

- de inflödesmätningar som genomförts i prototyptunneln
- de inflödesmätningar som genomförts i depositionshålen samt
- de inflödesmätningar som genomförts i tre av genomföringshålen mellan tunnel A och tunnel G
- de trycknivåförändringar som erhållits i samband med borrningarna av depositionshålen och genomföringshålen
- resultaten av de fyra tryckuppbyggnadstester som gjorts i tre av genomföringshålen
- tryckregistreringar gjorda under sprängningsarbeten i tunnel A

EXECUTIVE SUMMARY

The Prototype Repository Test is focused on testing and demonstrating the function of the SKB deep repository system. Activities aimed at contributing to development and testing of the practical, engineering measures required to rationally perform the steps of a deposition sequence are also included in the project but are also part of other projects.

The characterisation is made in three stages. Each stage is intended to contribute to more details useful for the determination of the localisation of the deposition holes and also the boundary and rock conditions needed for the interpretation of the experimental data.

This report describes the inflow measurements into the prototype tunnel, to the deposition boreholes and to the lead-through boreholes between tunnel A and tunnel G. It also details the pressure responses observed during the drilling of the deposition- and lead-through boreholes. The results from four pressure build-up tests made in the three lead-through boreholes and the pressure observations made during blasting work in the Prototype Repository Tunnel are also presented.

The result of the inflow measurements to the prototype repository tunnel is shown in *Table 1*.

Weir sections 1997 (m)	Q 1997 (l/min)	Weir sections 1999 & 2000 (m)	Q 1999-12-01 (l/min)	Q 2000-03-30 (l/min)
3527 - 3533	0.20	-	_	-
3533 - 3539	1.17	-	-	-
3539 - 3545	0.12	-	-	-
3545 - 3551	0.03	-	-	-
3551 - 3557	0.02	-	-	-
3557 - 3562	0.05	-	-	-
3562 - 3568	0.10	3546 - 3552	0.001	0.006
3568 - 3575	0.05	3552 - 3570	0.100	0.110
3575 - 3581	1.56	3570 - 3576	0.000	0.000
3581 - 3587	1.61	3576 - 3582	2.000	1.320

Table 1 Result of inflow measurements to prototype repository tunnel

Weir sections 1997 (m)	Q 1997 (l/min)	Weir sections 1999 & 2000 (m)	Q 1999-12-01 (l/min)	Q 2000-03-30 (l/min)
3587 - 3593	0.29	3582 - 3588	1.490	1.820
3593 - 3600	0.93	3588 - 3600	1.120	1.080
SUM	6.13	SUM	4.711	4.336

The measurement sections are not exactly the same and it is therefor not possible to be absolutely certain about the flowrate changes during the passed time. However, the flowrate to section 3545 - 3600 and 3546 - 3600 are approximately the same during 1997 and 1999/2000. Comparing the individual sections between 3545 to 3600 indicates that possibly all sections, but 3576 - 3582 and 3582 - 3588 m have slowly decreasing flowrates. In sections 3576 - 3582 and 3582 - 3588 m the flowrate changes rather much between the measurements, possibly due to changes of the flowrates from the flowing features.

In *Table 2* the result of the whole borehole inflow measurements in the deposition boreholes is shown.

Borehole	Q 1999-12-08 – 1999-12-13	Q 2000-03-28 – 2000-03-31	Q June / July 2000 (l/min)
	(1/min)	(l/min)	
DA3587G01	0.08000	0.07870	N/A
DA3581G01	0.00160	0.00220	0.00220*
DA3575G01	0.00280	0.00310	0.00410**
DA3569G01	0.00072	0	0.00472**
DA3551G01	0.00270	0.00155	0.00160***
DA3545G01	0.00610	0.00270	0.00740***
SUM	0.09392	0.08825	N/A

Table 2 Result of inflow measurements to deposition boreholes. (Figures in bold are considered as the most representative flowrates)

* Estimated from diaper measurements

*** Measurements done 2000-07-13 - 2000-07-26

^{**} Measurement done 2000-06-21 - 2000-06-24

There is probably some minor leakage from the tunnel floor included in the figures in *Table 2* in all boreholes except to DA3575G01 according to *section 5.2*. The last two measurements in DA3551G01 are considered representative as leaking water from the tunnel floor was sealed off. Sealing was also made in DA3545G01 after the first measurement and the measurement done in March 2000 is considered the most representative. Possibly there are new leakage from the tunnel floor during the measurement in June/July 2000.

In order to get an idea of the variations of inleakage to a borehole measurements using ordinary diapers applied to the borehole walls of DA3581G01 were made during the summer of 2000. In *Figure 1* the result is shown graphically.



Figure 1 Inflow measurements in DA3581G01 using diapers

The only mapped water bearing structure in this borehole is located beneath Z plank. Due to the fact that the diapers closest to it were soon nearly fully water saturated and part of the fracture is outside the diaper, excess water flowed downwards on both sides of Z plank. Due to this, below the measuring points for the water bearing structure the flowrate and the hydraulic conductivity, shown in *Figures 1* may be too high.

The inleakage rates were transformed into hydraulic conductivity using the Thiem formula and an assumed pressure profile around the deposition borehole. The result is shown in *Figure 2*.



Figure 2 Hydraulic conductivity of DA3581G01 as estimated from diaper measurements

As can be noticed in the figures above the inflow is localised to the parts of the bore hole, which earlier has been mapped as an area with water-bearing features. But still inflow exist in a more diffuse pattern in large parts of the borehole walls, even if those parts have not and could not be mapped as water-bearing parts.

The drilling of lead-through boreholes from tunnel G to tunnel A confirms the, during earlier investigations, indicated pattern of a hydraulically dominant response direction running WNW. All three drillings documented in this report show the same pattern, see for example *Figure 3*.



Figure 3 Pressure responses during drilling of KG0023A01 (14.38 - 15.77 m)

The performed pressure build-up tests in the three lead-through boreholes KG0023A01, KG0027A01 and KG0033A01 give as a result an estimated transmissivity for the most conductive parts of the boreholes (4 meter sections) in the range of $1 \cdot 10^{-7}$ to $5 \cdot 10^{-6}$ m²/s.

In the preparations for the concrete plug construction, blasting of niches were made at two chainage locations in the Prototype Repository Tunnel, namely 3537 and 3560. Pressure response registrations were made in KA3510A, KG0021A01 and KG0048A01 during the blasting period, 2000-08-24 – 2000-09-05.

A result is that at several blasting occasions the pressure rises in the observation sections after almost every blasting round. An example is given in *Figure 4*. At the most the increase was approximately 8 - 10 meters in four out of five sections in KG0021A01 observed during the first blasting round. In KG0048A01 the corresponding pressure increase was 1 - 4 meters in all four sections. The pressure increase seems to be somewhat higher for sections closer to the constructed niche.



Figure 4 Example of pressure response due to blasting

These measurements clearly show that the blasting affects the hydraulic system. A probable cause is that the vibrations from the blasting make the gauge material in the fracture move. The inter-connected fracture system will then become less permeable and the pressure will increase in fracture systems up-gradient of the clogged fractures.

The pressure increase after each blasting round is of similar magnitude in several sections indicating the possibility of the clogging of major flowing features.

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1 BACKGROUND

1.1 Äspö Hard Rock Laboratory

In order to prepare for the siting and licensing of a spent fuel repository SKB has constructed an underground research laboratory.

In the autumn of 1990, SKB began the construction of Äspö Hard Rock Laboratory (Äspö HRL), see *Figure 1-1*, near Oskarshamn in the south-eastern part of Sweden. A 3.6 km long tunnel was excavated in crystalline rock down to a depth of approximately 460 m.

The laboratory was completed in 1995 and research concerning the disposal of nuclear waste in crystalline rock has since been carried out.



Figure 1-1 Äspö Hard Rock Laboratory

1.2 Prototype repository

The Äspö Hard Rock Laboratory is an essential part of the research, development, and demonstration work performed by SKB in preparation for construction and operation of the deep repository for spent fuel. Within the scope of the SKB program for R&D 1995, SKB has decided to carry out a project with the designation "Prototype Repository Test". The aim of the project is to test important components in the SKB deep repository system in full scale and in a realistic environment.

The Prototype Repository Test is focused on testing and demonstrating the function of the SKB deep repository system. Activities aimed at contributing to development and testing of the practical, engineering measures required to rationally perform the steps of a deposition sequence are also included. However, efforts in this direction are limited, since these matters are addressed in the Demonstration of Repository Technology project and to some extent in the Backfill and Plug Test.

1.2.1 General objectives

The Prototype Repository should simulate, in as many aspects as possible, a real repository, regarding for example geometry, materials, and rock environment. The Prototype Repository is a demonstration of the integrated function of the repository components. Results will be compared with conceptual and numerical models and assumptions to their validity.

The major objectives for the Prototype Repository are:

- To test and demonstrate the integrated function of the repository components under realistic conditions in full scale and to compare results with conceptual and numerical models and assumptions.
- To develop, test and demonstrate appropriate engineering standards and quality assurance methods.
- To simulate appropriate parts of the repository design and construction process.
- To provide a full-scale reference for testing/scrutinization of models, experiments and assumptions

The objectives for the characterisation program are:

- To provide a basis for determination of localisation of the deposition holes
- To provide data on boundary and rock conditions to enable interpretation of the experimental data

1.2.2 Characterisation stages

The characterisation will be made in three stages. Each stage is intended to contribute to more details useful for the determination of the localisation of the deposition holes and also the boundary and rock conditions needed for the interpretation of the experimental data. The three stages are:

- 1. Mapping of the tunnel
- 2. Pilot and exploratory holes
- 3. Deposition holes

This report describes the inflow measurements into the prototype tunnel, to the deposition boreholes and to the lead-through boreholes. It also details the pressure responses observed during the drilling of the deposition- and lead-through boreholes as well as the results from four pressure build-up tests made in the three lead-through boreholes. Pressure responses from blasting niches for the plugs are shown, discussed and are also included in the document.

2 OBJECTIVE

The Prototype Repository should simulate a real repository in as many aspects as possible, regarding geometry, materials and rock environment. The Prototype Repository is a demonstration of the integrated function of the repository components. Results will be compared with models and assumptions to their validity.

The objectives for the pressure response observations during the drilling of the deposition boreholes and the inleakage measurements in the tunnel and into the deposition boreholes are:

- To provide data for the estimation of the wetting process of the bentonite clay surrounding the canisters
- To provide data for the structure model of the rock volume around the prototype repository
- To provide data for the numerical groundwater flow modeling

The objectives of the pressure response observations during the drilling of the lead-through boreholes and of the hydraulic tests in the holes are:

- To detect any hydraulic connections with already existing boreholes and thus provide additional data to the structure model
- To hydraulically characterise the boreholes before the planned grouting

The objectives, of the pressure response observations during the blasting of the niches for the plugs in the Prototype tunnel, are:

• To provide data to evaluate possible pressure changes and their cause in monitored sections around the Prototype tunnel

3 SCOPE

In the prototype repository tunnel floor, six 1.75 meter wide deposition holes have been drilled. From the G-tunnel, which runs on the north side of the prototype tunnel, three lead-through boreholes have been drilled and tested.

In the prototype repository tunnel, inflow measurements have been made during two measurement campaigns. They are presented in chapter 4.

During the drilling of the deposition boreholes pressure registration were made in several observation borehole sections. Inleakage measurements of the boreholes have been made during three measurement campaigns. Each deposition borehole has been mapped in regard to inflow features and these have been monitored in detail. In one of the deposition boreholes a very detailed inflow measurement was done during the summer of 2000. The results are presented in chapter 5.

During the drilling of three lead-through boreholes pressure registration were made in several observation sections. Inflow measurements were done during the drilling in order to locate high-yielding parts of the boreholes. Four pressure build-up tests were made in the three boreholes. The outcome of the tests is detailed in chapter 6.

Two niches for the plugs were blasted. During the blasting period, pressure in the surrounding rockmass was monitored and the result of the analysis are presented in chapter 7.

4 PROTOTYPE REPOSITORY TUNNEL

During the period, December 1999 to April 2000 measurement of inflow rates to the prototype repository tunnel was done. The measurements were made in two campaigns, the first one in November - December 1999 and the second one in March - April 2000.

The air humidity climate of the prototype tunnel was measured at a couple of occasions, see *section 4.2*.

An earlier inflow rate measurement campaign, concerning the inflow rate to the prototype tunnel, was made in 1997 and is reported in *Patel et al /1997/*.

4.1 Inflow rate to the prototype repository tunnel

The inflow to the tunnel consists of a diffuse flow from walls and roof and a flow from a few identified features.

The diffuse flow measurements were done by use of weirs, *see Figures 4-1* and *4-2*. The weirs were located at chainage 3588, 3582, 3576, 3570, 3552 and 3546 metres (a short distance upstream of each deposition hole). The weir at 3588 collects the diffuse flow from section 3588 to 3600 m, the weir at 3582 the diffuse flow from 3582 to 3588 m etc. The flowrate was measured, using a graded container and a watch, and then directed in tubes with the outlet located down-gradient of the deposition borehole DA3545G01.



Figure 4-1 One of the weirs used for flow estimation



Figure 4-2 One of the weirs closely up-gradient of a deposition hole

Tarpaulins collected the localised flow from certain features in the roof. Strips of wood collected the flow from features located on the walls of the tunnel, *see Figure 4-3*. The flowrate was measured and then, in the same manner as with the weir flow, directed in tubes with the outlet located down-gradient of the last deposition borehole (DA3545G01).



Figure 4-3 The inner section of the prototype repository tunnel



In Figure 4-4 and Figure 4-5, the different sub-flows are shown.

Figure 4-4 Length section of prototype repository tunnel, looking south. The sub-flows from certain features are indicated with different kinds of arrows.



Figure 4-5 Prototype repository tunnel with mapped features. The sub-flows from a few features are indicated with shaded areas.

4.1.1 Section 3588 – 3600 meters (A)

In section A, inflow is a diffuse flow and a localised inflow. The result from the measurement campaigns is presented in the *Table 4-1*. A1 represents the diffuse inflow, while A2 is a spot inflow from a joint, see *Figures 4-4* and *4-5*.

Part flow name	Q 1999-12-01	Q 2000-03-30
	(l/min)	(l/min)
A1	1.10	1.07
A2	0.02	0.01
SUM	1.12	1.08

Table 4-1 Inflow rates in section A

4.1.2 Section 3582 – 3588 meters (B)

In section B the inflow consists of a diffuse flow from walls and roof, but also a localised inflow from some features, see *Figures 4-4* to *4-7*. The result from the measurement campaigns is presented in *Table 4-2*.

Part flow name	Q 1999-12-01	Q 2000-03-30	
	(l/min)	(l/min)	
B1	0.05	0.40	
B2	1.02	0.81	
В3	0.42	0.61	
SUM	1.49	1.82	

Table 4-2 Inflow rates in section B.

B1 represents the diffuse inflow, while B2 and B3 represent the inflow from the fractures shown in *Figure 4-5*.



Figure 4-6 Measurement arrangement for flow B2 (South wall).



Figure 4-7 Measurement arrangements for flow B3 (South wall).

4.1.3 Section 3576 – 3582 meters (C)

In section, C the inflow consists of a diffuse flow from walls and roof, but also a localised inflow from some features, see *Figures 4-4* and *4-5*. The result from the measurement campaigns is presented in *Table 4-3*.

Part flow name	Q 1999-12-01	Q 2000-03-30
	(l/min)	(l/min)
C1	0.55	0.20

Tuble + 5 millow Tutes in Section Ca	Table 4-3	Inflow	rates in	section	C.
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Part flow name	Q 1999-12-01	Q 2000-03-30	
	(l/min)	(l/min)	
C2+C3	0.91	0.58	
C4	0.54	0.54	
SUM	2.00	1.32	

C1 represents the diffuse inflow, while C2 and C3 represent the inflow from the fractures shown in *Figure 4-5*. The flow C4 is inleakage from the borehole HA3578.

4.1.4 Section 3570 – 3576 meters (D)

In section D, no inleakage to the tunnel occurred during the measurement campaigns. The result from the measurement campaigns is presented in *Table 4-4*.

Table 4-4 Inflow rate in section D.

Part flow name	Q 1999-12-01	Q 2000-03-30	
	(l/min)	(l/min)	
D1	0.00	0.00	

4.1.5 Section 3552 – 3570 meters (E)

In section E a diffuse inleakage to the tunnel was measured, see *Figure 4-4*. The result from the measurement campaigns is presented in *Table 4-5*.

Table 4-5 Inflow rate in section E.

Part flow name	Q 1999-12-01	Q 2000-03-30	
	(l/min)	(l/min)	
E1	0.10	0.11	

4.1.6 Section 3546 – 3552 meters (F)

In section F a diffuse inleakage to the tunnel was measured, see *Figure 4-4*. The result from the measurement campaigns is presented in *Table 4-6*.

Table 4-6 Inflow rate in section F.

Part flow name	Q 1999-12-01	Q 2000-03-30	
	(l/min)	(l/min)	
F1	0.001	0.006	

4.2 Air humidity measurements

In order to gather information of the air humidity climate of the tunnel area, measurements of temperature and relative humidity were done. During the period October 1999 – April 2000, the measurements were done at different occasions.

The results of the tunnel measurements are shown in Table 4-7.

Date	Tunnel chainage (m)	Relative Humidity (%)	Tempera- ture (° C)
1999-10-08	3555	90	15.9
1999-11-09	3555	88	15.8
''	3590	94	16.2
1999-12-02	3548	76.8	12.7
''	3589	73.3	15.4
1999-12-15	3555	84 +/- 1	13.5
''	3586	81 +/- 1	14.7
2000-01-11	3548	80.3	12.4
''	3586	80.5	14.8

Table 4-7 Relative humidity measurements along the tunnel.

Date	Tunnel chainage (m)	Relative Humidity (%)	Tempera- ture (° C)
2000-01-15	3548	70.2	14.4
''	3586	62.7	19.8
2000-01-17	3548	71.4	15.9
''	3586	63.2	21.4
2000-01-19	3548	71.4	12.4
''	3586	74.4	15.2
2000-01-21	3548	69	11.5
''	3586	75.9	14.1
2000-03-17	3548	76.1	-
''	3590	80.1	-
2000-04-19	3530	84.2	12.7
''	3560	91	13.4
_''-	3590	89.6	13

The ventilation system of the tunnel was in function during the whole studied period.

The equipment used during the tunnel measurements was humidity measurement equipment with the possibility of measuring the temperature simultaneously.

No airflow measurements in the tunnel were done during the period documented in this report.
5 DEPOSITION BOREHOLES

5.1 Pressure responses during drilling

The six deposition boreholes in the prototype repository were drilled during the period June-September 1999, see *Table 5-1*.

Borehole	Start date	Start time	Stop date	Stop time
DA3587G01	1999-06-19	17:55	1999-06-22	21:32
DA3581G01	1999-06-30	08:00	1999-07-02	21:25
DA3575G01	1999-07-05	16:50	1999-07-08	11:30
DA3569G01	1999-07-13	10:00	1999-07-15	15:25
DA3551G01	1999-08-26	13:05	1999-09-01	14:08
DA3545G01	1999-09-14	08:30	1999-09-18	21:55

Table 5-1 Drilling periods for deposition boreholes

The drillings were not done as continuous drillings, but in several stages. In Appendix 1 all times for each sub-drilling is detailed.

Sudden pressure responses that in a certain manner can be assigned to the drilling activities are shown in *Table 5-2*. Only a few certain responses could be observed. It is however to be noted that the inleakage rates are low in the deposition boreholes. In *Appendix 1* the pressure changes during the all drilling period is presented. Of all the observation sections used during the drillings 66 % show a decrease while 34 % show an increase.

Table 5-2 Pressure responses during drilling of deposition boreholes (0=NO response, 1=response)

OBSERVA	TION SE	CTIONS				F
Bh name	Secup	Seclow	Bhname:	DA3545G01	DA3551G01	DA3587G01
Dir name	Occup	0001011	Section:	3.7	2	6.5
KA3510A:1	122.02	150.00		0	0	0
KA3510A:2	114.02	121.02		0	0	0
KA3510A:3	4.52	113.02		0	0	0
KA3539G:1	19.30	30.01		1	0	0
KA3539G:2	9.80	18.30		1	0	0
KA3539G:3	1.30	8.80		0	0	0
KA3542G01:1	25.80	30.04		0	0	0
KA3542G01:2	8.80	24.80		0	0	0
KA3542G01:3	1.30	7.80		0	0	0
KA3542G02:1	22.30	30.01		0	0	0
KA3542G02:2	13.80	21.30		0	0	0
KA3542G02:3	8.80	12.80		0	0	0
KA3542G02:4	1.30	7.80		1	0	0
KA3544G01:1	1.30	F 20		1	0	0
KA3544G01:2	6.80	5.30 12.00		1	0	0
KA3540G01.1	1.20	5.90		1	0	0
KA3548601.2	15.00	30.00		0	0	0
KA3548A01:2	10.00	14.00		0	0	0
KA3548G01.1	0.30	12 01		0	0	0
KA3550G01-1	6.30	12.03		ñ	ñ	0 0
KA3550G01.2	1.30	5,30		0 0	0	0
KA3552G01·1	8,80	12.01		0	0	0
KA3552G01:2	4.05	7.80		Ő	1	0
KA3552G01:3	1.30	3.05		0	0	0
KA3554G01:1	22.30	30.01		0	0	0
KA3554G01:2	12.30	21.30		0	0	0
KA3554G01:3	1.30	11.30		0	0	0
KA3554G02:1	22.30	30.01		0	0	0
KA3554G02:2	10.30	21.01		0	0	0
KA3554G02:3	1.30	9.30		0	0	0
KA3557G:1	0.30	30.04		0	0	0
KA3563G01:1	9.30	30.00		0	0	0
KA3563G01:2	3.80	8.30		0	0	0
KA3563G01:3	1.30	2.80		0	0	0
KA3566G01:1	20.80	30.01		0	0	0
KA3566G01:2	12.30	19.80		0	0	0
KA3566G01:3	7.30	11.30		0	0	0
KA3566G01:4	1.30	6.30		0	0	0
KA3566G02:1	19.30	30.01		0	0	0
KA3566G02:2	12.30	18.30		0	0	0
KA3566G02:3	7.80	11.30		0	0	0
KA3566G02:4	1.30	6.80		0	0	0
KA3572G01:1	1.30	5.20		0	0	0
KA3572001.2	19.00	40.07		0	0	0
KA3573A.1	4 50	17.00		0	0	0
KA3574G01·1	8.80	12.00		0	0	0
KA3574G01:2	5.30	7.80		0	0	0
KA3574G01:3	1.30	4.30		Ő	0	0
KA3576G01:1	8.80	12.01		0	0	0
KA3576G01:2	3.80	7.80		0	0	0
KA3576G01:3	1.30	2.80		0	0	0
KA3578G01:1	6.80	12.58		0	0	0
KA3578G01:2	1.30	5.80		0	0	0
KA3579G01:1	9.30	22.65		0	0	0
KA3579G01:2	5.30	8.30		0	0	0
KA3579G01:3	1.30	4.30		0	0	0
KA3584G01:1	0.30	12.00		0	0	0
KA3590G01:1	17.30	30.06		0	0	0
KA3590G01:2	7.80	16.30		0	0	1
KA3590G01:3	1.30	6.80		0	0	1
KA3590G02:1	23.30	30.05		0	0	0
KA3590G02:2	17.30	22.30		0	0	0
KA3590G02:3	8.30	16.30		0	0	0
KA3502C01.4	9.20	20.02		0	0	1
KA3503C01:1	0.30	30.02		0	0	1
KA3600E-1	1.3	1.3		0	0	0
KA3600E-2	15	21		0	0	0
KG0021401-1	4.5	48.82		0	0	0
KG0021401.2	35	41 5		0	0	0
KG0021A01.3	25	34		0 0	0 0	0 0
KG0021A01-4	17	24		0 0	0	0
KG0021A01:5	4	16	1	Õ	Ő	0 0
KG0048A01:1	49	54.69		0	0	0
KG0048A01:2	41	48		0	0	0
KG0048A01:3	30	40		0	0	0
KG0048A01:4	4	29		0	0	0

In order to study the overall influence, to the surrounding rockmass, due to the drilling of deposition boreholes a study of pressure differences was made. When drilling the boreholes of the inner section 63 observation sections were available and during the drilling of the boreholes in the outer section 62 sections were used. The pressure in an observation section at the start of a drilling of a deposition borehole was compared with the pressure at the end of the drilling period and a pressure difference was calculated, see *Figure 5-1*. If the pressure had increased it resulted in a positive number, while if the pressure had decreased it became a negative number. Plots and data of all observation sections are detailed in *Appendix 1*.



Figure 5-1 Pressure increase/decrease during drilling of deposition boreholes (+ = increase, - = decrease of pressure).

In *Table 5-3* the result of the analysis of pressure increase/decrease is shown. The major responses in the figure above are identified in the table.

Table 5-3 Statistics of	pressure increase/decr	ease during drilling	of deposition boreho	les

Borehole	Bh nr	Median (m)	Stand. dev	n (Pressure increase, +)	n (Pressure decrease, -)	Major pressure differences in observation sections
DA3587G01	1	0.04	7.21	40	23	KA3590G02:3 (-20.00 m);KA3590G02:4 (-14.32 m); KA3593G01:2 (-50.12 m)
DA3581G01	2	-0.33	30.06	14	49	KA3574G01:1 (28.04 m);KA3574G01:2 (-81.76 m) KA3576G01:1 (81.69 m);KA3576G01:3 (206.17 m)
DA3575G01	3	0.08	21.70	37	26	KA3576G01:3 (170.84 m)
DA3569G01	4	-0.16	3.44	10	53	KA3576G01:3 (-21.12 m)
DA3551G01	5	-0.59	4.51	16	46	KA3552G01:3 (29.95 m)
DA3545G01	6	-0.37	15.39	12	50	KA3539G:3 (-55.50 m); KA3544G01:1 (-21.45 m); KA3544G01:2 (-106.84 m)

As can be seen in the table above, during the drilling of two, out of the total of six, deposition boreholes, and more pressure increases than pressure decreases occurs. This indicates different influence of those deposition boreholes, DA3587G01 and DA3575G01, to the surrounding rockmass than for the four other deposition boreholes, where the majority of the pressure registrations are decreasing during the drilling period of these boreholes. Explanations to this could be stress re-distributions in the rockmass due to the drillings causing decrease in pressure, but also increase on pressure. Minor decreasing pressures can also be explained as natural long-term trends in the hydraulic head pressure around the Prototype Repository Tunnel. Another possibility for pressure changes during drilling periods is clogging of fractures due to vibration from the drilling process. This in turn could create a local pressure increase.

The available boreholes during the drilling period were divided into 5 subclasses, see *Figure 5-2* in order to see the importance of the bore hole inclination :

- All boreholes (Subclass 1)
- Sub-vertical bore holes (Subclass 2)
- Sub-horizontal boreholes (KG0021A01, KG0048A01, KA3548A01, KA3510A, KA3573A and KA3600F) (Subclass 3)
- Southerly inclined boreholes (KA3542G01, KA3554G01, KA3566G01 and KA3590G01) (Subclass 4)
- Northerly inclined boreholes (KA3542G02, KA3554G02, KA3566G02 and KA3590G02) (Subclass 5)



Figure 5-2 Borehole subclass orientation

An attempt to observe any systematic pressure change tendency around the tunnel is shown in *Table 5-4*.

Subclass	n	n increase	% increase	n decrease	% decrease
1	376	129	34	247	66
2	146	58	40	88	60
3	108	37	34	71	66
4	58	18	31	40	69
5	64	16	25	48	75

 Table 5-4 Pressure increase/decrease around prototype tunnel during drilling of deposition boreholes

The results are similar all around the tunnel, with about one-third of the changes being increasing pressures and two-thirds of the values showing decreasing pressures.

During the drilling period some of the recently drilled deposition boreholes became filled with water (no pumping was made), see *Appendix 1*. No immediate influence to surrounding boreholes can however be discerned.

5.2 Inflow rate to prototype repository deposition boreholes

The detailed mapping of fractures in the deposition holes was made during the months of October and November of 1999.

The inflow rate to each of the six deposition boreholes in the prototype repository has been estimated during measurement campaigns. During these campaigns, the total inflow rate to the whole borehole has been made. Mapping of water-bearing features in the boreholes was done in January 2000. Estimations of inleakage rates from single features mapped as water-bearing and located on the borehole walls were done during the second measurement campaign in March/April 2000.

Before the mapping of water-bearing features in the deposition boreholes were commenced, the holes were dried out using a large heating fan, thereby reducing the relative humidity to a minimum. After the fan was removed the mapping started.

During both inflow measurement campaigns, the total inflow rate estimation to a hole was made. However, during the first campaign in November - December 1999 no single feature flow rate estimation was made. During the third measurement campaign the boreholes were filled up, in order to create a "wet" flow situation. The water level was kept at a distance of approximately 0.5 meter below the tunnel floor. The measurement was done in the same manner as described below.

The measurement methodology when measuring the total inflow has been as follows, see *Figure 5-3*. During the first two measurement campaigns a water table was created at the bottom of each borehole. The measurement principle was then to measure the difference of the height, of the water table at least once every day. Since the borehole radius is known the increase of water volume could then be estimated, and thereby the inflow rate to the borehole could be determined, by using the function below

$$Q = r^2 \cdot \Pi \cdot (h_2 - h_1) / (t_2 - t_1)$$



Figure 5-3 Measuring principles when estimating the inflow rate to a borehole. (r=radius; h_1 , h_2 = level of water table at different times t_1 , t_2 ; **D**h = difference of levels)

The depth of each deposition hole is 8.37 meter and the diameter is 1.75 meter.

During the first measurement campaign in November/December 1999 a pressure transducer, measuring the total water pressure, was used when determining the levels of the water table. The differential pressure between two measurements was then converted into the height difference of the water table. This measuring arrangement was replaced in the second and third measurements with an ultra-sonic transducer. The transducer constantly measured the distance between the transducer and the water level, *see Figure 5-4*.



Figure 5-4 Ultra-sonic transducer

When estimating the inleakage from single water bearing feature plastic bags, applied to the rock surface, were used to collect water from a localised feature. The volume of the inleaking water from the different features was measured approximately once a day during a period of one month, see *Figure 5-5*.



Figure 5-5 Example of plastic bag measurement

The boreholes were sealed off from the tunnel floor by using a disc of plywood. The small distance between the plywood disk and the borehole wall was filled with pieces of water absorbing rags, see *Figure 5-6*.



Figure 5-6 Sealing-off arrangements around deposition borehole

5.2.1 Uncertainty in the measurements of flow to the deposition boreholes

The uncertainty in the flow measurements depend on the uncertainty of the borehole radius (r), the difference in water level $(h_2 - h_1)$ and the time differences for the flow measurement $(t_2 - t_1)$. The numbers below are to be seen as possible mis-readings if the parameters measured for some reasons may be unstable.

The uncertainty of the radius is estimated to +/-2 mm.

The uncertainty of $(t_2 - t_1)$ is estimated to be nil.

The largest uncertainty in the level measurements using the pressure transducer is 0.3 mm.

The largest uncertainty in the level measurements using the ultra-sonic transducer is 0.1 mm.

The main uncertainty factor of these measurements is the leakage between the tunnel floor and the boreholes. When this kind of leakage is present it is mentioned in the text below.

5.2.2 DA3587G01 - Deposition borehole 1

The total inflow rate to DA3587G01 is shown in Table 5-5 below

Table 5-5 Total inflow to DA3587G01

Borehole	Q 1999-12-08 – 1999-12-13	Q 2000-03-28 – 2000-03-31	
DA3587G01	0.00000 +/-	0.07870 +/- 0.00236	

In *Figure 5-7*, the deposition hole mapping is detailed together with the observed waterbearing features on the borehole wall.

In *Table 5-6* the detailed inleakage estimation results for the mapped water bearing fractures on the borehole walls are presented.

		~ ~ ~		~				-		
Tabla	5 6 Sub ir	sflowe to D	A 25877 M1	from	wotor	hooring	footurog	on	horoholo	1170
Iane	2-0 3uu-n	ուսած ւս ք	AJJO/(TUI	пош	water	Deal my	reatures	UH I	DOLEHOIE	wan

Mapped feature in DA3587G01, see <i>Fig 5-7</i>	Q 2000-02-25 - 2000-03-31 (1/min)
1	1.11E-4
2	1.04E-5
3	0
4	3.61E-5
SUM	1.58E-4

The mapped feature number 1 in the table above could possibly be influenced by flow from the tunnel bottom. It was not possible to determine this for sure, but the possibility exist that the fracture may lead water from the tunnel floor level and into the plastic bag used for determining the flow. Of the total inflow rate to the borehole 0.2 % enters through the features on the walls, the rest origins from diffuse inflow at the walls and from the bottom of the borehole.



Figure 5-7 Deposition hole mapping in DA3587G01. Mapped water bearing features are marked with shaded areas.

5.2.3 DA3581G01 - Deposition borehole 2

The total inflow rate to DA3581G01 is shown in Table 5-7 below

Table 5-7 Total inflow to DA3581G01

Borehole	Q 1999-12-17 – 1999-12-23	Q 2000-03-28 – 2000-03-31	
	(l/min)	(l/min)	
DA3581G01	0.00160 +/- 0.00008	0.00220 +/- 0.00007	

In *Figure 5-8*, the deposition hole mapping is detailed together with the observed waterbearing features on the borehole wall.

In *Table 5-8*, the detailed inleakage estimation results for the mapped water bearing fractures on the borehole walls are presented.

Table 5-8 Sub-inflows to DA3581G01 from water bearing features on borehole wall

	0 2000 02 25
Mapped feature	Q 2000-02-25 –
in	2000-03-31
DA3581G01,	
see Fig 5-8	(l/min)
1	1.67E-4

Of the total inflow rate to the borehole 8 % enters through the feature on the wall, the rest origins from diffuse flow at the walls and from the bottom of the borehole.



Figure 5-8 Deposition hole mapping in DA3581G01. Mapped water bearing features are marked with shaded areas.

A detailed flow measurement was done in DA3581G01 2000-07-03 to 2000-07-11. Ordinary baby diapers were applied to a plank. A total of 9 diapers were applied in a row to each of 50 planks. Each diaper was weighted before applying to the plank. All of the plank-diaper arrangements were then applied tight to the borehole wall. The first 25 were applied vertically at level 4.25 - 7.25 meters and the last 25 were applied vertically at level 0.75 - 3.75 meters. After the end of the period each diaper was again weighted to be able to estimate the inflow to each diaper. The arrangement is shown in *Figures 5-9* to *5-11*. Measurement data is detailed in *Appendix 2*.



Figure 5-9 Diaper measurement arrangement in DA3581G01

To be able to estimate the effect of the background humidity on water content in the diaper some reference diapers were used at different levels in the borehole. The results of these reference measurements are that the reference diapers increased its weight by 10.8 to 14.0 grams. Four of the diapers were hanging free in the air at levels 1 m, 3 m, 4.7 m and 6.5 m below tunnel floor in the borehole. The fifth diaper was mounted on the outer side of a plank, at a level of 1 meter below tunnel floor and covered with a steel plate. This diaper was the one that increased its weight by 10.8 grams. The weight was therefor lessened by 10 grams of each of the other diapers from the borehole walls, in order to estimate the net inflow rate from the rock.

A simple test was carried out to see how much water a diaper could absorb. With 200 g water the diaper felt moist, and with 300 g it was possible to squeeze the water out of the diaper.

Considering the increase of the water content in the diapers nearly none of the diapers became saturated during the experiment, see *Appendix 2*.

A weight increase of 0 - 1 grams is considered as uncertain, giving that an increase of 1 gram could represent a "zero" flow as well as flow causing an increase of 1 gram. A 1 gram increase during one week gives a flow of $1 \cdot 10^{-7}$ l/min. This flow is therefor set as the measurement limit of this methodology.



Figure 5-10 Diaper measurement arrangement in DA3581G01

Each diaper covered an area of $0.03465 (0.11 \times 0.315) \text{ m}^2$. The distance between the planks is approximately 0.1 meters.



Figure 5-11 Diaper measurement arrangement in DA3581G01

The planks were mounted clock-wise along the circumference of the borehole. Plank A, see *Figure 5-10* and *5-11* was situated in the centreline of the tunnel facing east towards the tunnel opening. During the measurement campaign 4 sections (Q, R, S and T) out of 25 (A - Z) became waterlogged by leaking water from the tunnel floor. These sections are marked as blank in the following *Figures 5-12, 5-14* to *5-16*.

The only mapped water bearing structure in this borehole is located beneath Z plank. Due to the fact that the diapers closest to it were soon nearly saturated with water and part of the fracture is outside the diaper, excess water flowed downwards on both sides of Z plank. Due to this, below the measuring points for the water bearing structure the flowrate and the hydraulic conductivity, shown in *Figures 5-12, 5-14* to *5-16*, may be too high.

DA3581G01 - INFLOW MEASUREMENTS USING DIAPERS q Ĺ q Itowards tunnel entrancel |towards endwall| Itowards tunnel entrance 0 1208 17 30_ 04 15 22 03 07 09 29 02 0 13/ -1 КО 80 B КQ 16 BÓ 30 -2_{B0} 3 32 -3 0 ко 33 26 50 06 26 BO 35 50 KOBC 40 к1/4 33 -4 / _____ВО *О*ко K B1 45 46 41 -5 51 57 61 56 -6₅₈ 38 54 52 52 59 KO KO 6 KO BO CO 55 -7 КŎ 55 ΒQ 62 49 КO К1 72 вØ 68 -8 Ĵ₿Ο К1 -B1 71 К1 2 2.5 Ò 0.5 1 1.5 3 3.5 4 5 5 (m) B1K1 КÒ πŔΠ Q (l/min) 1E-005 < Q < 1E-004 1E-006 < Q < 1E-005 7B 1 1E-007 < Q < 1E-006 -1E+000 < Q < 1E-007 В 69 Version 2 Ӑ VBB VIAK /1310241/DATA/De characterisation/Mapping_geology,_flowing_features/DIAPER_Q_MEAS.SRF 2000-09-05

In *Figure 5-12* the result is shown graphically together with the geological mapping of structures and inleaking locations.

Figure 5-12 Inflow measurements using diapers in DA3581G01.

In total the measurement gives an estimated borehole flow of $2.2 \cdot 10^{-3}$ l/min, see *Table 5-7*. In the calculation the total measured flow (water absorbed by diapers) is $7.3 \cdot 10^{-4}$ l/min. Taken into account that parts of the borehole is not covered by diapers this flow was upscaled by a factor 3. The estimated flow is within the same order of magnitude as earlier whole borehole measurements, see *Table 5-7*.

If the pressure in the rock mass is known the measured flow can be translated to a hydraulic conductivity. To be able to estimate a relevant pressure, measured pressures in existing boreholes close to the deposition holes were utilised to develop a relationship between the distance between the deposition borehole centre and the pressure at a location in the rockmass outside the borehole wall. In *Table 5-9* the utilised pressures are presented together with the distance to the centre of the closest deposition borehole.

Borehole	Secup (m)	Seclow	R (m)	P (m)
KA3539G:1	19.30	30.01	6.82	262.0
KA3539G:2	9.80	18.30	6.82	262.0
KA3539G:3	1.30	8.80	6.82	205.0
KA3544G01:1	6.30	12.00	1.17	227.5
KA3544G01:2	1.30	5.30	1.17	101.0
KA3546G01:1	6.80	12.00	1.18	12.8
KA3546G01:2	1.30	5.80	1.18	6.5
KA3548G01:1	0.30	12.01	3.00	8.4
KA3550G01:1	6.30	12.03	1.18	5.2
KA3550G01:2	1.30	5.30	1.18	6.5
KA3552G01:1	8.80	12.01	1.18	48.0
KA3552G01:2	4.05	7.80	1.18	12.5
KA3552G01:3	1.30	3.05	1.18	23.4
KA3557G:1	0.30	30.04	5.13	17.9
KA3563G01:1	9.30	30.00	6.83	137.8
KA3563G01:2	3.80	8.30	6.83	137.8
KA3563G01:3	1.30	2.80	6.83	25.5
KA3572G01:1	6.30	12.00	2.97	98.0
KA3572G01:2	1.30	5.30	2.97	98.2
KA3574G01:1	8.80	12.00	1.18	37.4
KA3574G01:2	5.30	7.80	1.18	10.3
KA3574G01:3	1.30	4.30	1.18	10.1

Table 5-9 Utilized pressures when developing a relationship between the horizontal
distance between the deposition borehole centre and and the pressure at a
location in the rockmass outside the borehole wall. Pressures for the inner
section are from July 1999 and for the outer section from January 2000.

Borehole	Secup (m)	Seclow	R (m)	P (m)
		(111)		
KA3576G01:1	8.80	12.01	1.15	162.3
KA3576G01:2	3.80	7.80	1.15	7.3
KA3576G01:3	1.30	2.80	1.15	161.5
KA3578G01:1	6.80	12.58	2.99	142.9
KA3578G01:2	1.30	5.80	2.99	7.3
KA3579G01:1	9.30	22.65	1.83	155.3
KA3579G01:2	5.30	8.30	1.83	49.1
KA3579G01:3	1.30	4.30	1.83	42.6
KA3584G01:1	0.30	12.00	2.99	11.0
KA3593G01:1	8.30	30.02	5.14	199.1
KA3593G01:2	1.30	7.30	5.14	126.6

The pressures in the *Table 5-9* above are pressures measured 6 - 12 months before the diaper measurements. This fact may cause that the pressures in some cases are overrated since the open deposition boreholes will reduce the pressure in the closest surrounding rockmass. This will, mostly, be the case in the borehole sections with the highest pressure. The declining pressure trend is, however, at most 2 - 3 metres per month in those sections in the outer section where pressure time series are available.

The pressure at the borehole wall with the radius 0.875 meters is set to 0. The simple regression analysis gives the following relationship with a correlation coefficient of 0.59, which indicates a relatively strong relationship between the variables. The relationship shown in *Figure 5-13* is



 $P = 7.835 + 94.397 \cdot LOG_R$

Figure 5-13 Simple regression analysis with 95 % confidence limits (inner pair of dotted lines) for mean value and predicted value

The hydraulic conductivity, K, was estimated using Thiem's relationship in the form below:

$$K = q \cdot r_1 \cdot \ln (r_2 / r_1) / (P_2 - P_1)$$
 where

q = measured inflow for each area covered with a diaper $(m^3/s \cdot m^2)$

 r_1 = radius of deposition borehole (=0.875 m)

 r_2 = distance to location outside borehole from borehole centre, where pressure is estimated from relationship above

 P_1 = Pressure at borehole wall (=0 m of water)

 P_2 = Pressure estimated from relationship above (meters of water)

Two cases have been calculated for. The first is with $r_2 = 1.15$ m and the second with $r_2 = 5$ m. The pressure P₂ used for the different cases are shown in *Figure 5-13*. The resulting K_{min}, K_{mean} and K_{max} are presented in *Figures 5-14* to *5-16* and in *Appendix 2*.

As earlier described the estimated measurement limit of a diaper is +/- 1 gram. Using the different extreme pressures, P₂, in *Figure 5-13* above this indicate a hydraulic conductivity (m/s) interval for the 1.15 meter case of $5.6 \cdot 10^{-14}$ (P_{min}) – $3.8 \cdot 10^{-15}$ (P_{max}) and for the 5 meter case of $5.1 \cdot 10^{-14}$ (P_{min}) – $1.2 \cdot 10^{-14}$ (P_{max}). Considering this, the measurement limit for hydraulic conductivity is estimated to be $5 \cdot 10^{-14}$ m/s.



Figure 5-14 Estimated K_{min} at distance 1.15 meters from borehole center



Figure 5-15 Estimated K_{mean} at distance 1.15 meters from borehole center



Figure 5-16 Estimated K_{max} at distance 1.15 meters from borehole center

The result of a statistical analysis of K_{min} , K_{mean} and K_{max} for the two distances 1.15 and 5 meters from deposition borehole centre is shown in *Table 5-10*. Detailed results are presented in *Appendix 2*.

Data set	Geometric mean (m/s)	Standard deviation (Log10 K)
$K_{min} (d = 1.15 m)$	$8.5\cdot10^{\text{-}14}$	0.65 *
K_{mean} (d = 1.15 m)	$1.9 \cdot 10^{-13}$	0.64
$K_{max} (d = 1.15 m)$	$5.0 \cdot 10^{-13}$	0.77
$K_{\min} (d = 5 m)$	$8.8 \cdot 10^{-14}$	0.65 *
K_{mean} (d = 5 m)	$1.1 \cdot 10^{-13}$	0.65 *
$K_{max} (d = 5 m)$	$2.1 \cdot 10^{-13}$	0.66

 Table 5-10 Result of statistical analysis of K_{min}, K_{mean}and K_{max} for the two distances 1.15 and 5 meters from deposition borehole centre

* estimated by fitting a line (dotted line i Appendix 2) in the probability diagram in Appendix 2

It is to be remembered in this context that some of the higher inflow spots probably reflect water coming from a fracture above them, as was pointed out earlier. This means that the statistics probably to some extent is biased. There should probably be fewer values with high K-values but some of the values could possibly be higher (representing the mapped flowing feature). K_{min} and K_{max} should be seen as the possible range for individual values. The distribution of K_{mean} should be the best estimate of the hydraulic conductivity.

A second detailed measurement campaign was done 2000-07-12 to 2000-07-19, see *Appendix 2*. It was only a partial measurement, including 6 diaper rows (B1 to G1) in the upper part of the borehole, 0.75 - 3.75 meter from the top. Of the 28 diapers that had a flow measurement 18 of them showed increasing values, the increase ranging from 2 % to an extreme value of some 1200 %. The decreasing values ranged between 9 % and 108 %. The repeatability using this measurement methodology is considered as fairly good.

5.2.4 DA3575G01 - Deposition borehole 3

The total inflow rate to DA3575G01 is shown in Table 5-11 below

Borehole	Q 1999-12-13 –	Q 2000-03-28 –	Q 2000-06-21 –
	1999-12-20	2000-03-31	2000-06-24
	(l/min)	(l/min)	(l/min)
DA3575G01	0.00280 +/-	0.00310 +/-	0.00410 +/-
	0.00014	0.00009	0.00012

Table 5-11 Total inflow to DA3575G01

During the first two measurements the borehole was kept almost empty with a water table just above the bottom of the hole. During the third measurement the borehole was filled up with the water table at a level of 0.5 meter below tunnel floor.

In *Figure 5-17*, the deposition hole mapping is detailed.

In *Table 5-12*, the detailed inleakage estimation results for the mapped water bearing fractures on the borehole walls. No water inleakage could be estimated from features located on the walls.

Table 5 13 Cb. !.	nflarma (a. DA 2575//01	fuero motore	hooming footunes	an hanshala mall
1 abie 5-12 Sub-u	0110WS 10 1JA 3575t+U1	Irom water	nearing teatures	on porenoie wait
		II OIII WATCH	bout mg reatur ob	on solution wan

Mapped feature in DA3575G01	Q 2000-02-25 - 2000-03-31 (1/min)
No feature observed	-

Of the total inflow rate to the borehole 0 % enters through the features on the walls, the rest origins from diffuse flow at the walls and from the bottom of the borehole.



Figure 5-17 Deposition hole mapping in DA3575G01. No water bearing features was observed.

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5.2.5 DA3569G01 - Deposition borehole 4

The total inflow rate to DA3569G01 is shown in Table 5-13 below

Borehole	Q 1999-12-23 – 2000-04-10	Q 2000-03-28 – 2000-03-31	Q 2000-06-21 – 2000-06-26
	(l/min)	(l/min)	(l/min)
DA3569G01	0.00072 +/- 0.00004	0	0.00472 +/- 0.00009

Table 5-13 Total inflow to DA3569G01

During the first two measurements the borehole was kept almost empty with a water table just above the bottom of the hole. During the third measurement the borehole was filled up with the water table at a level of 0.5 meter below tunnel floor. The figures in the table above include a certain amount of leakage from the tunnel floor, which could not be sealed off. The estimated leakage from the tunnel floor, during the second measurement, accounted for all flow into the borehole.

In *Table 5-14* the detailed inleakage estimation results for the mapped water bearing fractures on the borehole walls are presented. In *Figure 5-18*, the deposition hole mapping is detailed together with the observed waterbearing features on the borehole wall.

Table 5.14 Sub inflows to DA 2560C01 from water bearing features on bersheld w	
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Mapped feature in DA3569G01, see <i>Fig5-18</i>	Q 2000-02-25 - 2000-03-31 (1/min)
1	0
2	5.10E-5
3	0
4	1.38E-6
SUM	5.24E-5

Of the total inflow rate to the borehole 4 % enters through the features on the walls, the rest origins from diffuse flow at the walls and from the bottom of the borehole. The measurements of features 1 - 3 are probably influenced by water from the tunnel floor via fractures.



Figure 5-18 Deposition hole mapping in DA3569G01. Water bearing features are marked with shaded areas.

5.2.6 DA3551G01 - Deposition borehole 5

The total inflow rate to DA3551G01 is shown in Table 5-15 below

Borehole	Q 1999-12-23 –	Q 2000-03-21 –	Q 2000-07-16 –
	2000-01-10	2000-03-27	2000-07-26
	(l/min)	(l/min)	(l/min)
DA3551G01	0.00270 +/-	0.00155 +/-	0.00160 +/-
	0.00014	0.00005	0.00005

Table 5-15 Total inflow to DA3551G01

During the first two measurements the borehole was kept almost empty with a water table just above the bottom of the hole. During the third measurement the borehole was filled up with the water table at a level of 0.5 meter below tunnel floor. A certain amount of leakage from the tunnel floor is included in the figures of the first measurement (1999-12-23 – 2000-01-10). This was later sealed off and the latter measurements should give a more representative inleakage flow rate.

In *Figure 5-19* the deposition hole mapping is detailed together with the observed waterbearing features on the borehole wall.



Figure 5-19 Deposition hole mapping in DA3551G01. Water bearing features are marked with shaded areas.

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In *Table 5-16* the detailed inleakage estimation results for the mapped water bearing fractures on the borehole walls are presented.

Mapped feature in DA3551G01, see <i>Fig 5-19</i>	Q 2000-02-25 – 2000-03-31 (1/min)
1	2.84E-5
2	2.59E-5
3	3.49E-5
4	8.63E-6
5	1.94E-5
6	1.05E-5
7	1.12E-4
8	1.19E-4
9	0
SUM	3.59E-4

Table 5-16 Sub-inflows to DA3551G01 from water bearing features on borehole wall

Of the total inflow rate to the borehole 23 % enters through the features on the walls, the rest origins from diffuse flow at the walls and from the bottom of the borehole.

5.2.7 DA3545G01 - Deposition borehole 6

The total inflow rate to DA3545G01 is shown in Table 5-17 below

Borehole	Q 1999-12-20 –	Q 2000-03-21 –	Q 2000-07-13 –
	1999-12-22	2000-03-27	2000-07-26
	(l/min)	(l/min)	(l/min)
DA3545G01	0.00610 +/-	0.00270 +/-	0.00740 +/-
	0.00031	0.00008	0.00022

Table 5-17 Total inflow to DA3545G01

During the first two measurements the borehole was kept almost empty with a water table just above the bottom of the hole. During the third measurement the borehole was filled up with the water table at a level of 0.5 meter below tunnel floor. A certain amount of leakage from the tunnel floor is included in the figures of the first measurement (1999-12-23 – 2000-01-10). This was later sealed off and the second measurement should give a more representative inleakage flow rate. The higher figures of the last measurement could indicate new inleakage from the floor or could be attributed from the wetted flow conditions.

In *Figure 5-20*, the deposition hole mapping is detailed together with the observed waterbearing features on the borehole wall.

In *Table 5-18* the detailed inleakage estimation results for the mapped water bearing fractures on the borehole walls are presented.

Mapped feature in DA3545G01, see <i>Fig 5-20</i>	Q 2000-02-25 – 2000-03-31 (1/min)
1	5.45E-6
2	4.16E-5
3	2.17E-4
4	3.85E-5
5	0
6	2.03E-5
7	2.24E-4
8	3.96E-6
9	3.22E-5
10	1.16E-5
SUM	5.95E-4

Table 5-18 Sub-inflows to DA3545G01 from water bearing features on borehole wall

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Of the total inflow rate to the borehole 22 % enters through the features on the walls, the rest origins from diffuse flow at the walls and from the bottom of the borehole.



Figure 5-20 Deposition hole mapping in DA3545G01. Water bearing features are marked with shaded areas.

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5.2.8 Comparison of inflow rates to pilot boreholes and to deposition boreholes

According to investigations in Finland (Autio, J et. al, 2001) the following conclusion regarding inflow measurements to full-scale experimental deposition holes was made.

• The inflow in small diameter investigation holes was more or less larger than in large diameter holes

In order to make the same comparison within the prototype repository project, the inflow to pilot boreholes drilled prior to the deposition boreholes is shown in *Table 5-19*.

Pilot borehole	Q _{pilot} (l/min)	Deposition borehole	appr. Q _{deposition} (l/min)
KA3587G	$7.9\cdot 10^{-5}$	DA3587G01	0.08
KA3581G	$1.3\cdot 10^{-6}$	DA3581G01	0.002
KA3575G	$8.4\cdot10^{-6}$	DA3575G01	0.003
KA3569G	$3.8\cdot10^{-4}$	DA3569G01	0.004
KA3551G	$2.2\cdot 10^{-5}$	DA3551G01	0.002
KA3545G	0.013	DA3545G01	0.007

 Table 5-19 Inflow to pilot borehole and to correponding deposition borehole

As seen in the table no consistent pattern regarding inflow rates can be set from these six cases only. In the five positions with very low flow rates, the inflow rates to the deposition boreholes are the largest. In the last deposition borehole position, the order of magnitude of the inflow is larger, and the inflow to the pilot borehole is larger than to the deposition borehole itself. This could be an indication of a break even point of the magnitude of the inleaking volumes. In the cases in Finland the magnitude of order of the inflow rates were at least 10 times the largest inflow above, in two out of three cases. In the third case the flow was below the measurement limit.

5.3 Air humidity measurements

In order to gather information of the air humidity climate of the tunnel area, measurements of temperature and relative humidity were done. During the period October 1999 – April 2000, the measurements were done at different occasions. They were done in the tunnel itself, see *section 4.2*, and in some deposition boreholes.

The equipment used in the boreholes was humidity measurement equipment with the possibility of measuring the temperature simultaneously.

The results from the measurements in the deposition boreholes are presented in Table 5-20.

The tunnel ventilation system was in function during the studied period.

During the period of 2000-01-14 - 2000-01-18 a heating fan was installed in each of the deposition boreholes.

Date	Borehole	Relative Humidity (%)	Tempera- ture (° C)	Comments
1999-10-08	DA3551G01	96.3	15.5	2 m below roadbed
1999-11-09	DA3551G01	94	15.7	2 m below roadbed
-"-	DA3575G01	57	24.3	Just below roadbed. Active fan in borehole.
1999-12-02	DA3545G01	88.2	13	2 m below roadbed
-"-	DA3551G01	87.7	13.4	2 m below roadbed
-"-	DA3575G01	88.8	13.8	2 m below roadbed
1999-12-15	DA3575G01	98.0	14.2	2 m below roadbed
-"-	DA3581G01	98.4	14.1	2 m below roadbed
1999-12-22	DA3545G01	96.8	13.8	2 m below roadbed
-"-	DA3581G01	96.2	14.5	2 m below roadbed
2000-01-11	DA3445G01	96.9	15	2 m below roadbed
''	DA3551G01	93.9	14.7	2 m below roadbed
2000-01-15	DA3551G01	43.2	23.5	2 m below roadbed. Active fan in borehole.
''	DA3581G01	93	14.9	2 m below roadbed. Active fan with no heat in hole.
2000-01-17	DA3545G01	31.4	28.5	2 m below roadbed. Active fan in borehole.
''	DA3581G01	47.3	27.2	2 m below roadbed. Active fan in borehole.

 Table 5-20 Relative humidity measurements in deposition boreholes
Date	Borehole	Relative Humidity (%)	Tempera- ture (° C)	Comments
2000-01-19	DA3545G01	72.6	15	2 m below roadbed.
''	DA3581G01	73.7	15.6	2 m below roadbed.
2000-01-21	DA3545G01	74.8	13.5	2 m below roadbed.
''	DA3587G01	78	16	2 m below roadbed.
2000-03-17	DA3581G01	95.7	-	Borehole covered with plastic sheet to maintain RH

In 2000-04-19 humidity measurements profiles were made in two boreholes, see Table 5-21.

 Table 5-21 Relative Humidity measurement profiles in boreholes

Borehole	Level	RH (%)	Temp (° C)	Comments
DA3545G01	0.7	84.2	_	
۰۰_۰۰	2.7	83.8	_	
۰۰_۰۰	4.7	84.2	-	
۰۰_۰۰	6.7	85.7	_	
۰۰_۰۰	8.5	94.5	-	
DA3575G01	1.5	91.9	14.1	Close to borehole wall
"_"	4.0	94.3	13.6	Close to borehole wall
۰۰_۰۰	7.5	97.1	13.6	Close to borehole wall
۰۰_۰۰	1.5	96.8	13.6	At centre of borehole
"_"	4.0	95.8	13.5	At centre of borehole
۰۰_۰۰	7.5	94.0	13.5	At centre of borehole

6 LEAD-THROUGH BOREHOLES

6.1 Pressure responses during drilling

Three boreholes have been drilled from the G-tunnel to the prototype tunnel (A-tunnel). They are inclined 2 degrees downward as seen from G-tunnel,. The diameter of the holes is 76 mm. The boreholes were drilled as presented in *Table 6-1*.

 Borehole
 Length
 Drilling period

 (m)
 (Start date – Stop date)

 KG0023A01
 33.40
 2000-04-14 – 2000-04-27

 KG0027A01
 46.72
 2000-05-16 – 2000-05-24

 KG0033A01
 56.90
 2000-05-02 – 2000-05-15

Table 6-1 Boreholes between tunnel G and tunnel A, Äspö HRL

During drilling a number of uptakes with measured increase of water-inflow were observed corresponding to possible water-bearing features. The inflow intervals are detailed in *Table 6-2*.

 Table 6-2 Uptake with increasing inflow during drilling of the lead-through boreholes

Borehole	Uptake (Borehole length, m)	Increase of inflow (l/min)	Flow of the entire borehole according to the drilling records (l/min)
KG0023A01	14.38 – 15.77	0.4	
KG0023A01	24.42 - 27.78	0.3	0.7
KG0027A01	8.05 - 9.92	7.2	
KG0027A01	41.57 - 44.52	1.8	9.0

Borehole	Uptake	Increase of inflow	Flow of the entire borehole
	(Borehole length, m)	(l/min)	records (l/min)
KG0033A01	7.93 – 10.73	1.6	
KG0033A01	34.65 - 36.57	0.4	
KG0033A01	42.65 - 43.62	0.4	2.4

With the observed water-bearing sections as a basis, for each drilled borehole, an attempt to correlate these sections to registered pressure changes in the observation sections were made. In *Table 6-3* observed responses have been indicated. In *Appendix 3* plots of pressure responses are presented.

Table 6-3 Registered pressure changes in observation sections during drilling of
observed water-bearing section in drilled borehole [0=no response (<0.1 m),
1= some response (> 0.1 m & < 1.0 m), 2= good response (> 1.0 m)]

Observation	Observation	Observation	Observation	KG0023A01	KG0023A01	KG0027A01	KG0027A01	KG0033A01	KG0033A01	KG0033A01
section	secup	seclow	hydraulic centre	14.38 - 15.77 m	24.42 - 27.78 m	8.05 - 9.92 m	41.57 - 44.52 m	7.93 - 10.73 m	34.65 - 39.53 m	42.65 - 43.62 m
KA3510A:1	122.02	150.00	136.00	0	0	1	0	0	0	0
KA3510A:2	114.02	121.02	117.50	0	0	1	0	0	0	0
KA3510A:3	4.52	113.02	50.00	0	1	2	0	1	1	0
KA3539G:1	19.30	30.01	20.56	0	2	2	0	2	2	0
KA3539G:2	9.80	18.30	16.37	0	2	2	0	2	2	0
KA3539G:3	1.30	8.80	6.59	0	2	2	0	0	0	0
KA3542G01:1	25.80	30.04	28.50	0	1	2	0	1	1	0
KA3542G01:2	8.80	24.80	20.06	0	0	2	0	1	1	0
KA3542G01:3	1.30	7.80	4.50	0	1	2	0	1	1	0
KA3542G02:1	22.30	30.01	26.21	0	2	2	0	2	0	0
KA3542G02:2	13.80	21.30	16.83	0	2	2	0	2	2	0
KA3542G02:3	8.80	12.80	11.13	0	2	2	0	2	2	0
KA3542G02:4	1.30	7.80	5.36	0	2	2	0	2	2	0
KA3548A01:1	15.00	30.00	19.56	0	1	2	0	1	1	0
KA3548A01:2	10.00	14.00	13.49	0	1	2	0	1	1	0
KA3554G01:1	22.30	30.01	24.95	0	1	2	0	0	2	0
KA3554G01:2	12.30	21.30	19.39	0	1	2	0	1	1	0
KA3554G01:3	1.30	11.30	6.78	0	0	1	0	1	1	0
KA3554G02:1	22.30	30.01	28.47	0	2	2	0	2	2	0
KA3554G02:2	10.30	21.01	13.13	0	2	2	0	2	2	0
KA3554G02:3	1.30	9.30	8.39	0	2	2	0	2	2	0
KA3557G-1	0.30	30.04	11.40	0	0	0	0	0	1	0
KA3563G01:1	0.30	30.00	5.60	0	0	0	0	0	0	0
KA3566G01:1	20.80	30.01	21 57	0	1	1	0	1	1	0
KA3566G01:2	12.30	19.80	16.71	0	1	1	0	1	1	0
KA3566G01:3	7.30	11.30	8.81	0	1	1	0	1	1	0
KA3566G01:4	1.00	6.30	3.70	0	1	1	0	1	1	0
KA3566G02:1	19.30	30.01	21.41	0	2	2	0	2	2	0
KA3566G02:2	12.30	18.30	16.23	0	2	2	0	2	2	0
KA3566G02:2	7.80	11.30	10.25	0	2	1	0	1	2	0
KA3566G02:4	1.30	6.80	3.99	0	0	0	0	1	2	0
KA3572G01:1	0.30	12.00	7.67	0	0	1	0	0	1	0
KA3573A-1	18.00	40.07	21.34	0	0	1	0	1	1	0
KA3573A-2	4 50	17.00	9.16	0	1	2	0	1	1	0
KA3574G01:1	0.30	12.00	4.93	0	0	0	0	0	0	0
KA3578G01:1	0.30	12.58	7.03	0	0	0	0	0	0	0
KA3579G01-1	0.30	22.65	7.62	0	0	0	0	0	0	0
KA3584G01:1	0.30	12.00	6.24	0	0	0	0	0	0	0
KA3590G01:1	0.30	30.06	4.33	0	0	1	0	0	0	0
KA3590G02:1	0.30	30.05	26.73	0	2	2	0	2	2	0
KA3593G01-1	0.30	30.02	6.45	0	1	1	0	0	2	0
KA3600F:1	22.00	50.10	31.78	0	0	1	0	0	0	0
KA3600E:2	4.50	21.00	12.51	0	0	1	0	0	0	0
KG0021401-1	42.50	48.82	43.53	0	2	2	0	2	1	0
KG0021A01-2	35.00	41.50	37.70	0	2	2	0	2	1	0
KG0021A01:3	25.00	34.00	28.64	0	2	2	0	2	1	0
KG0021A01:4	17.00	24.00	21.80	0	2	2	0	2	1	0
KG0021A01:5	4.00	16.00	11 64	0	2	2	0	2	0	ů 0
KG0048A01-1	49.00	54.69	53.81	0	1	2	0	1	1	0
KG0048A01.2	41.00	48.00	45.90	0	1	2	0	1	1	0
KG0048A01:3	30.00	40.00	33.50	0	2	2	0	2	2	0
KG0048A01:4	4 00	29.00	9.12	0	2	2	Ő	2	0	Ő

In *Figures 6-1 to 6-4* the responses are shown graphically in a plan view of the repository area.



Figure 6-1 Pressure responses during drilling of KG0023A01 (14.38 - 15.77 m)



Figure 6-2 Pressure responses during drilling of KG0027A01 (8.05 - 9.92 m)



Figure 6-3 Pressure responses during drilling of KG0033A01 (7.93 - 10.73 m)



Figure 6-4 Pressure responses during drilling of KG0033A01 (7.93 - 10.73 m)

The observations from the drillings indicate a hydraulic conductive fracture system existing in a WNW direction. This is in accordance to earlier investigations.

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6.2 Pressure build-up tests

6.2.1 Equipment used

Prior to the hydraulic tests the pressure transducer was calibrated using the calibration system of the Äspö HRL.

The down-hole equipment used for the flow measurements and the PBTs of a feature in KG0023A01, KG0027A01 and KG0033A01 consisted of two inflatable polyurethane packers (GEOSIGMA, PUR 72), separated by a pipe, a pipe string and two pressure lines, see *Figure 6-5*. The sealing length of each packer is 1.0 m and they are inflated using water pressurised by nitrogen. The packer spacing was 4 meters. The pipe between the packers and a by-pass opening at the upper gable of the outer packer made it possible to equalise the ground water pressure on both sides of the measurement section. One of the two pressure hoses (polyamide) is connecting the packers and the pressurising system. The second pressure hose establishes hydraulic contact between the measurement chamber and a transducer positioned outside the borehole, see *Table 6-4*.



Figure 6-5 Equipment configuration during pressure build-up tests in lead-through boreholes.

The pipe string is made of aluminium with threaded pipe joints of stainless steel. The outer/inner diameter is 33/21 mm and the length of individual pipe segments is 0.5 m or 3 m.

The test tool and the pipe string were transferred in the boreholes by hand.

The pressure transducers used were Druck PTX 1400. The pressure range was 60 bar.

Borehole	Level above tunnel floor (m)
KG0023A01	0.30
KG0027A01	0.15
KG0033A01	0.10

Table 6-4 Level of pressure transducers above the tunnel floor during pressure

The Borre logger used in KG0027A01 was unstable. The data logger randomly shifted between the options and occasionally incorrect values were produced. After the first day the data logger was replaced.

Water flow rates were measured using graduated cylinders of different sizes and a stop watch.

The packer inflation influences the accuracy of the flow measurements. The generated flow in a double packer section caused by the packers used in the exploratory hole tests have been tested in the laboratory (*Forsmark T, Rhén I, 1999*). The results show that after 30 minutes of inflation, the flow is c. 0.5 ml/min. and after 40 minutes the generated flow is c.0.4 ml/min. Consequently, the effect of packer creep induced flow is most pronounced for low-conductive test sections.

6.2.2 Results of pressure build-up tests

The results of the four pressure build-up tests are presented in this chapter, and in *Appendix 4* to *Appendix 7*.

The tests were focused on inflow parts of the boreholes according to measurements while drilling, see *Table 6-5*. The packer spacing was four meter. If the predicted flow rate was not found, the adjacent intervals measured as well. Pressure build-up tests were carried out if a major water-bearing feature was detected. If this wasn't the case, a flow measurement only was made. The borehole intervals that were measured are shown in *Table 6-5*.

Borehole	Date	Measurement interval (borehole length, m)	Uptake with inflow (borehole length, m)	Type of test or measurement
KG0023A01	2000-06-07	11.0 - 15.0	11.82 - 14.38	Q
KG0023A01	2000-06-07	14.0 - 18.0	14.38 – 15.77	PBT
KG0023A01	2000-06-07	24.0 - 28.0	24.42 - 27.78	Q
KG0027A01	2000-06-05	7.0 – 11.0	8.05 - 9.92	PBT
KG0027A01	2000-06-06	37.0 - 41.0	41.57 – 44.52	Q
KG0027A01	2000-06-06	41.0 - 45.0	41.57 – 44.52	Q
KG0033A01	2000-06-06	9.0 - 13.0	7.93 – 10.73	PBT
KG0033A01	2000-06-07	7.0 - 11.0	7.93 – 10.73	Q
KG0033A01	2000-06-07	34.0 - 38.0	34.65 - 36.57	PBT
KG0033A01	2000-06-07	41.0 - 45.0	42.65 - 43.62	Q

Table 6-5Measurement intervals of boreholes KG0023A01, KG0027A01 and
KG0033A01, Äspö HRL, June 2000

In *Table 6-6* a list of test times is shown.

Table 6-6A list of pressure build-up tests carried out in the boreholes KG0023A01,
KG0027A01 and KG0033A01. Prototype Repository, June 2000. (* = next
day)

Borehole	Date of test	Test no	Section	Start	Valve open	Valve closed	End
			(m)	(hh.mm)	(hh.mm.ss)	(hh.mm.ss)	(hh.mm)
KG0027A01	2000-06-05	1	7.00 - 11.00	17.14	18.44.00	19.14.00	07.49*
KG0033A01	2000-06-06	2	9.00 - 13.00	17.39	19.07.59	19.29.00	08.30*
KG0033A01	2000-06-07	3	34.00 - 38.00	10.55	11.19.59	11.42.01	13.03
KG0023A01	2000-06-07	4	24.00 - 28.00	17.48	18.23.08	18.53.00	07.59*

Test start time is equal to start time of packer inflation.

To be able to determine the different flow regimes during the recovery phase, of the four borehole sections, the derivative of the measured pressure was used, see *Table 6-7*.

Two of the tests were possible to make a transmissivity evaluation using a radial flow model. In the remaining two tests the pressure responses were not possible to evaluate with the radial flow model.

In those tests sections where radial flow occurred a Jacob semi-logarithmic evaluation of the transmissivity were made. In the remaining two bore holes the transmissivity have been estimated from the specific capacity. The following relationship have been used, *Rhén et al*/1997/.

$$3-25 \text{ m}$$
: $\text{Log}_{10}\text{T} = 1.75 + 1.13 \cdot \text{Log}_{10} (\text{Q/s})$ (6-1)

Equation (6-1) is based on tests with test section lengths of 3 - 25 meters.

Table 6-7	Flow regime evaluation (WBS= Well Bore Storage, T = Transition, E = Early
	time, I = Intermediate time, L = Late time)

Borehole	Secup	Seclow	Start	Stop	Period	Flowdim	Comments
	(m)	(m)	(min)	(min)	(WBS,T,E,I,L)		
KG0027A01	7.00	11.00	0	1	WBS	-	
			1	30	T,E,I	-	No radial flow
KG0033A01	9.00	13.00	0	7	WBS	-	
			7	13	T,E,I	-	Transition
			13	20	L	2	Radial flow
KG0033A01	34.00	38.00	0	0.2	WBS	-	
			0.2	1	T,E	-	
			1	3	Ι	< 2	No radial
			3	8	Ι	-	flow
			8	20	L	<2	
KG0023A01	24.00	28.00	0	0.1	WBS	-	
			0.1	10	T,E,I	-	
			10	11	L	2	Radial flow

Borehole	Secup	Seclow	Start	Stop	Period	Flowdim	Comments
	(m)	(m)	(min)	(min)	(WBS,T,E,I,L)		
KG0023A01	24.00	28.00	11	30	L	_	

The measured, evaluated and estimated parameters of the tests are presented in Table 6-8.

Table 6-8Evaluated and estimated hydrogeological parameters (s = pressure change,
Q = flow rate, Spec. cap = specific capacity, T(Spec. cap) = transmissivity
calculated from equation 6-1, T_eval = evaluated transmissivity where radial
flow occurs)

Borehole	Secup	Seclow	S	Q	Spec. cap	T(Spec. cap)	T_eval
	(m)	(m)	(m)	(l/min)	$(m^3/s \cdot m)$	(m^2/s)	(m^2/s)
KG0027A01	7.00	11.00	133.12	5.50	6.9·10 ⁻⁷	6.1·10 ⁻⁶	-
KG0033A01	9.00	13.00	3.28	0.049	$2.5 \cdot 10^{-7}$	1.9·10 ⁻⁶	$3.4 \cdot 10^{-7}$
KG0033A01	34.00	38.00	248.85	0.615	4.1.10-8	$2.5 \cdot 10^{-7}$	-
KG0023A01	24.00	28.00	225.59	0.39	2.9.10-8	$1.7 \cdot 10^{-7}$	5.9·10 ⁻⁸

The evaluated results indicate a fracture system with a transmissivity of the magnitude $1 \cdot 10^{-7} - 5 \cdot 10^{-7} \text{ m}^2/\text{s}$.

6.3 Pressure responses during pressure build-up tests

The majority of the boreholes at the Prototype Repository Site have been connected to the HMS-system. This enables studies of pressure responses due to the pressure changes in the three boreholes between tunnel G and tunnel A to be made. However the same week as the tests were carried out the reconfiguration of the packers of the Prototype site was started. In many boreholes the packers were removed and the pressure monitoring was interrupted. As a consequence the data curves cover only a part of the test period and are influenced to a high degree of those activities. This makes the evaluation of the responses somewhat awkward and thus only the most certain responses will be high-lighted in this chapter.

Test #1 (KG0027A01, 7 – 11 m) have the greatest impact on the groundwater pressure according to the diagrams. Test #3 (KG0033A01, 34 - 38 m) causes smaller pressure increases. The effect of test #4 June 7th is more difficult to analyse since the packers of the permeable borehole KA3542G02 were removed at 16:39 the same afternoon and the borehole was closed again at 4 minutes past six p.m. The packer removal resulted in pressure drops in almost all the prototype boreholes.

In *Appendix* 8 the existing data curves of the borehole pressures that were influenced by the tests are shown for the period covering the tests. In *Appendix* 3 the activity log of the prototype repository details the re-instrumentation events. The largest responses are found in boreholes KG0021A01 and KG0048A01.

In the data curves of KG0021A01 and KG0048A01 the packer installation of KG0027A01, opening and closing the valve shows clearly in the curves of the outermost sections both boreholes.

7 PRESSURE RESPONSES DURING DRILLING AND BLASTING OF NICHES

In the preparations for the concrete plug construction, blasting of niches were made at two chainage locations in the Prototype Repository Tunnel, namely 3537 and 3560. Pressure registrations were made in KA3510A, KG0021A01 and KG0048A01 during the blasting period, 2000-08-24 – 2000-09-05. In *Appendix 9* plots of the pressure registrations made during the blasting period are shown.

A result is that at several blasting occasions the pressure rises in the observation sections after almost every blasting round, see *Figure 7-1* for an example. At most the increase was approximately 8 - 10 meters in four out of five sections in KG0021A01 when the first round went off. In KG0048A01 the corresponding pressure increase was 1 - 4 meters in all four sections. The pressure increase seems to be somewhat higher for sections closer to the constructed niche.



Figure 7-1 Example of pressure response due to blasting

The total increase of the pressure in available observation sections after the blasting of the two niches is shown in *Table 7-1*.

Table 7-1 Total increase of the pressure in	available observation sections after the
blasting of the two niches	

Observation section of observation borehole	Increase of the pressure in KA3510A1 (m)	Increase of the pressure in KG0021A01 (m)	Increase of the pressure in KG0048A01 (m)
1	0.2	31.0	5.0
2	0.7	36.5	9.0
3	6.0	37.5	15.0
4	-	19.0	-0.5
5	-	24.0	-

These measurements clearly show that the blasting affects the hydraulic system. A probable cause is that the vibrations from the blasting make the gauge material in the fracture move. The inter-connected fracture system will then become less permeable and the pressure will increase in fracture systems up-gradient of the clogged fractures.

The pressure increase after each blasting round is of similar magnitude in several sections indicating the possibility of the clogging of major flowing features.

8 SUMMARY OF RESULTS

The result of the inflow measurements using weirs 1997 (*Patél et al., 1997*), 1999 and 2000 to the prototype repository tunnel is shown in *Table 8-1*. Do notice that the weir sections are not identical 1997 and 1999/2000. Therefor they can not be compared directly.

Weir sections 1997 (m)	Q 1997 (l/min)	Weir sections 1999 & 2000 (m)	Q 1999-12-01 (l/min)	Q 2000-03-30 (l/min)
3527 - 3533	0.20	-	-	_
3533 - 3539	1.17	-	-	-
3539 - 3545	0.12	-	-	-
3545 - 3551	0.03	-	-	-
3551 - 3557	0.02	-	-	-
3557 - 3562	0.05	-	-	-
3562 - 3568	0.10	3546 - 3552	0.001	0.006
3568 - 3575	0.05	3552 - 3570	0.100	0.110
3575 - 3581	1.56	3570 - 3576	0.000	0.000
3581 - 3587	1.61	3576 - 3582	2.000	1.320
3587 - 3593	0.29	3582 - 3588	1.490	1.820
3593 - 3600	0.93	3588 - 3600	1.120	1.080
SUM (3527 – 3600)	6.13	SUM (3546 – 3600)	4.711	4.336

Table 8-1 Result of inflow measurements to prototype repository tunnel

The measurement sections are not exactly the same and it is therefor not possible to be absolutely certain about the flowrate changes during the passed time. However, the flowrate to section 3545 - 3600 and 3546 - 3600 are approximately the same during 1997 and 1999/2000. Comparing the individual sections between 3545 to 3600 indicates that possibly all sections, but 3576 - 3582 and 3582 - 3588 m have slowly decreasing flowrates. In sections 3576 - 3582 and 3582 - 3588 m the flowrate changes rather much between the measurements, possibly due to changes of the flowrates from the flowing features.



The flowrates shown in the table above is graphically shown in Figure 8-1.

Figure 8-1 Weir measurements 1997, 1999 and 2000

In *Table 8-2* the result of the whole borehole inflow measurements in the deposition boreholes is shown.

Borehole	Q 1999-12-08 – 1999-12-13 (1/min)	Q 2000-03-28 – 2000-03-31 (1/min)	Q June / July 2000 (l/min)
	(i/ iiiii)	(i/ IIIII)	
DA3587G01	0.08000	0.07870	N/A
DA2501001	0.001/0	0.00000	0.00220*
DA3581G01	0.00160	0.00220	0.00220*
DA3575G01	0.00280	0.00310	0.00410**
DA3569G01	0.00072	0	0.00472**
DA3551G01	0.00270	0.00155	0.00160***
DA3545G01	0.00610	0.00270	0.00740***
SUM	0.09392	0.08825	N/A

Table 8-2 Result of inflow measurements to deposition boreholes. (Figures in bold are considered as the most representative flowrates)

* Estimated from diaper measurements

** Measurement done 2000-06-21 - 2000-06-24

*** Measurements done 2000-07-13 - 2000-07-26

There is probably some minor leakage from the tunnel floor included in the figures in *Table 8-2* in all boreholes except to DA3575G01 according to *section 5.2*. The last two measurements in DA3551G01 are considered representative as leaking water from the tunnel floor was sealed off. Sealing was also made in DA3545G01 after the first measurement and the measurement done in March 2000 is considered the most representative. Possibly there are new leakage from the tunnel floor during the measurement in June/July 2000.



Figure 8-2 Inflow measurements in DA3581G01 using diapers. Flowing fracture shown as thick line in the upper right part of the figure.

In order to get an idea of the variations of inleakage to a borehole measurements using ordinary diapers applied to the borehole walls of DA3581G01 were made during the summer of 2000. In *Figure 8-2* the result is shown graphically. The inleakage rates were transformed into hydraulic conductivity using Thiems formula and the result is shown in *Figure 8-3*. The higher inflow spots below the flowing fracture, in *Figure 8-2*, probably reflects the water coming from that fracture.



Figure 8-3 Hydraulic conductivity of DA3581G01 as estimated from diaper measurements

As can be noticed in the figures above the inflow is localised to the parts of the bore hole, which earlier has been mapped as an area with water-bearing features. But still inflow exist in a more diffuse pattern in large parts of the borehole walls, even if those parts have not and could not be mapped as water-bearing parts.

The drilling of lead-through boreholes from tunnel G to tunnel A confirms the, during earlier investigations, indicated pattern of a hydraulically dominant response direction running WNW. All three drillings documented in this report shows the same pattern, see for example *Figure 8-4*.



Figure 8-4 Pressure responses during drilling of KG0023A01 (14.38 - 15.77 m)

The performed pressure build-up tests in the three lead-through boreholes KG0023A01, KG0027A01 and KG0033A01 give as a result an estimated transmissivity for the most conductive parts of the boreholes (4 meter sections) in the range of $1 \cdot 10^{-7}$ to $5 \cdot 10^{-6}$ m²/s.

During the blasting of two niches for the plugs in the prototype tunnel, the pressure increased stepwise after each blasting round in most of the available observation sections near the TBM tunnel. The probable reason is that the vibrations from the blasting initiates movements of the gauge material in the fractures. The gauge material follows the groundwater flow and clogs some of the narrower parts of the fracture system. The inter-connected fractures system become less permeable and the pressure increase in the fracture system up-gradient of the clogged fractures.

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APPENDIX 1 – Drilling of deposition boreholes

This appendix includes the following information:

- Drilling periods of deposition boreholes
- Level of water in deposition boreholes during the period 1999-06-01 1999-12-28
- Pressure registration in observation sections during the period 1999-06-01 1999-12-28
- Activity log of prototype repository during the period 1999-06-01 1999-12-28
- Activity log of activities in tunnels I, J and G during the period 1999-06-01 1999-12-28
- Activity log of True Block Scale during the period 1999-06-01 1999-12-28
- Activity log of tunnel TASA during the period 1999-06-01 1999-12-28
- Data for pressure registration in observation sections during drilling of deposition holes pressure differences between start of drilling and end of drilling period for each deposition borehole
- Plots of data for pressure registration in observation sections during drilling of deposition holes pressure differences between start of drilling and end of drilling period for each deposition borehole

Drilling periods of deposition boreholes

Site	ldcode	Bhlen (m)	Sub Start Date	Sub Stop Date
		0		1999-06-19 17:55
ÄSPÖ	DA3587G01	0.9	1999-06-19 17:55	1999-06-21 17:35
		0.9		1999-06-21 18:25
ÄSPÖ	DA3587G01	1.7	1999-06-21 18:25	1999-06-21 21:00
		1.7		1999-06-21 21:35
ÄSPÖ	DA3587G01	2.5	1999-06-21 21:35	1999-06-21 23:00
		2.5		1999-06-21 23:20
ÄSPÖ	DA3587G01	3.3	1999-06-21 23:20	1999-06-22 00:43
		3.3		1999-06-22 07:20
ÄSPÖ	DA3587G01	4.1	1999-06-22 07:20	1999-06-22 08:50
		4.1		1999-06-22 09:10
ÄSPÖ	DA3587G01	4.9	1999-06-22 09:10	1999-06-22 10:25
		4.9		1999-06-22 10:55
ÄSPÖ	DA3587G01	5.7	1999-06-22 10:55	1999-06-22 13:45
		5.7		1999-06-22 14:35
ÄSPÖ	DA3587G01	6.5	1999-06-22 14:35	1999-06-22 15:50
		6.5		1999-06-22 16:14
ÄSPÖ	DA3587G01	7.3	1999-06-22 16:14	1999-06-22 17:40
		7.3		1999-06-22 18:25
ÅSPÖ	DA3587G01	8.1	1999-06-22 18:25	1999-06-22 19:40
		8.1		1999-06-22 20:15
ASPÖ	DA3587G01	8.37	1999-06-22 20:15	1999-06-22 21:32

Site	ldcode	Bhlen (m)	Sub Start Date	Sub Stop Date
		•		
		0		1999-06-30 08:00
ASPO	DA3581G01	0.09	1999-06-30 08:00	1999-06-30 10:53
		0.09		1999-06-30 13:25
ÄSPÖ	DA3581G01	1.7	1999-06-30 13:25	1999-06-30 16:37
		1.7		1999-06-30 17:04
ÄSPÖ	DA3581G01	2.23	1999-06-30 17:04	1999-06-30 17:45
		2.23		1999-07-01 07:32
ÄSPÖ	DA3581G01	2.5	1999-07-01 07:32	1999-07-01 08:05
		2.5		1999-07-01 08:29
ÄSPÖ	DA3581G01	3.3	1999-07-01 08:29	1999-07-01 09:41
		3.3		1999-07-01 10:05
ÄSPÖ	DA3581G01	4.1	1999-07-01 10:05	1999-07-01 13:30
		4.1		1999-07-01 13:55
ÄSPÖ	DA3581G01	4.9	1999-07-01 13:55	1999-07-01 15:21
		4.9		1999-07-01 15:58
ÄSPÖ	DA3581G01	5.28	1999-07-01 15:58	1999-07-01 17:30
		5.28		1999-07-02 09:44
ÄSPÖ	DA3581G01	6.5	1999-07-02 09:44	1999-07-02 11:45
		6.5		1999-07-02 13:36
ÄSPÖ	DA3581G01	7.3	1999-07-02 13:36	1999-07-02 15:36
		7.3		1999-07-02 16:05
ÄSPÖ	DA3581G01	8.1	1999-07-02 16:05	1999-07-02 18:59
		8.1		1999-07-02 19:24
ÄSPÖ	DA3581G01	8.37	1999-07-02 19:24	1999-07-02 21:25

Site	ldcode	Bhlen (m)	Sub Start Date	Sub Stop Date
		0		1999-07-05 16:50
ÄSPÖ	DA3575G01	0.63	1999-07-05 16:50	1999-07-05 17:55
		0.63		1999-07-06 09:32
ÄSPÖ	DA3575G01	0.8	1999-07-06 09:32	1999-07-06 11:05
		0.8		1999-07-06 14:32
ÄSPÖ	DA3575G01	1.6	1999-07-06 14:32	1999-07-06 17:25
		1.6		1999-07-06 17:49
ÄSPÖ	DA3575G01	2.4	1999-07-06 17:49	1999-07-06 19:34
		2.4		1999-07-07 07:21
ÄSPÖ	DA3575G01	3.2	1999-07-07 07:21	1999-07-07 09:03
		3.2		1999-07-07 09:24
ÄSPÖ	DA3575G01	4	1999-07-07 09:24	1999-07-07 10:59
		4		1999-07-07 11:18
ÄSPÖ	DA3575G01	4.8	1999-07-07 11:18	1999-07-07 14:58
		4.8		1999-07-07 15:15
ÄSPÖ	DA3575G01	5.6	1999-07-07 15:15	1999-07-07 17:15
		5.6		1999-07-07 17:53
ÄSPÖ	DA3575G01	6.4	1999-07-07 17:53	1999-07-07 19:55
		6.4		1999-07-07 20:15
ÄSPÖ	DA3575G01	7.2	1999-07-07 20:15	1999-07-07 22:20
		7.2		1999-07-08 06:50
ÄSPÖ	DA3575G01	8	1999-07-08 06:50	1999-07-08 08:43
		8		1999-07-08 09:04
ÄSPÖ	DA3575G01	8.37	1999-07-08 09:04	1999-07-08 11:30

Site	ldcode	Bhlen (m)	Sub Start Date	Sub Stop Date
		0		1000.07.13 10.00
ÄSDÖ	DA2560C01	0.9	1000 07 12 10:00	1999-07-13 10:00
ASEC	DA3309G01	0.8	1999-07-13 10.00	1999-07-13 12.24
X on C	D 4 0 5 0 0 0 4	0.8	4000 07 40 45 05	1999-07-13 15:05
ASPU	DA3569G01	1.6	1999-07-13 15:05	1999-07-13 17:52
		1.6		1999-07-13 18:30
ASPÓ	DA3569G01	2.4	1999-07-13 18:30	1999-07-13 19:45
		2.4		1999-07-14 07:10
ÄSPÖ	DA3569G01	3.2	1999-07 -14 07:10	1999-07-14 09:08
		3.2		1999-07-14 09:30
ÄSPÖ	DA3569G01	4	1999-07-14 09:30	1999-07-14 10:50
		4		1999-07-14 11:10
ÄSPÖ	DA3569G01	4.8	1999-07-14 11:10	1999-07-14 14:26
		4.8		1999-07-14 14:47
ÄSPÖ	DA3569G01	5.6	1999-07-14 14:47	1999-07-14 16:07
		5.6		1999-07-14 16:38
ÄSPÖ	DA3569G01	6.4	1999-07-14 16:38	1999-07-14 18:13
		6.4		1999-07-15 07:15
ÄSPÖ	DA3569G01	7.2	1999-07-15 07:15	1999-07-15 09:24
		7.2		1999-07-15 09:47
ÄSPÖ	DA3569G01	8	1999-07-15 09:47	1999-07-15 11:26
		8		1999-07-15 13:13
ÄSPÖ	DA3569G01	8.37	1999-07-15 13:13	1999-07-15 15:25

Site	Idcode	Bhlen (m)	Sub Start Date	Sub Stop Date
		0		1000 08 26 12:05
ĂSPŎ	DA3551G01	Λq	1999-08-26 13-05	1000 08 26 15:05
	27.0001.001	0.0	1000-00-20 10.00	1000 08 27 10:00
ÄSPÖ	DA3551G01	17	1000-08-27 10.00	1000 09 27 14:25
	2/10001001	1.7	1333-00-27 10.00	1000 09 27 14:20
ÄSPÖ	DA3551G01	25	1000 08 27 14-20	1999-00-27 14.20
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	5//0001001	2.5	1999-00-27 14.20	1999-06-27 17:35
ÄSPÄ	DA3551C01	2.0	1000 00 00 00.00	1999-08-28 08:00
7010	DA3331001	3.3	1999-00-20 08:00	1999-08-28 09:00
XedQ	DA2554004	3.3	4000 00 00 40 40	1999-08-28 13:10
ASPU	DA355TGUT	4.1	1999-08-28 13:10	1999-08-28 15:00
Xonö	DAGESION	4.1		1999-08-30 08:35
ASPU	DA3551G01	4.9	1999-08-30 08:35	1999-08-30 10:28
Xonð	D • • • • • • • •	4.9		1999-08-30 13:46
ASPO	DA3551G01	5.7	1999-08-30 13:46	1999-08-30 15:35
		5.7		1999-08-31 08:08
ASPO	DA3551G01	6.5	1999-08-31 08:08	1999-08-31 10:27
		6.5		1999-08-31 13:37
ÄSPÖ	DA3551G01	7.3	1999-08-31 13:37	1999-08-31 16:02
		7.3		1999-09-01 07:07
ÄSPÖ	DA3551G01	8.1	1999-09-01 07:07	1999-09-01 10:00
		8.1		1999-09-01 12:57
ÄSPÖ	DA3551G01	8.37	1999-09-01 12:57	1999-09-01 14:08

Site	Idcode	Bhlen (m)	Sub Start Date	Sub Stop Date
		0		1999-09-14 08:30
ÄSPÖ	DA3545G01	0.9	1999-09-14 08:30	1999-09-14 09:55
		0.9		1999-09-14 13:40
ÄSPÖ	DA3545G01	1.7	1999-09-14 13:40	1999-09-14 17:20
		1.7		1999-09-15 08:20
ÄSPÖ	DA3545G01	2.5	1999-09-15 08:20	1999-09-15 10:20
		2.5		1999-09-15 13:07
ÄSPÖ	DA3545G01	3.3	1999-09-15 13:07	1999-09-15 15:28
		3.3		1999-09-15 18:05
ÄSPÖ	DA3545G01	4.1	1999-09-15 18:05	1999-09-15 20:10
		4.1		1999-09-17 08:15
ÁSPŐ	DA3545G01	4.9	1999-09-17 08:15	1999-09-17 11:35
v v		4.9		1999-09-17 14:35
ASPO	DA3545G01	5.7	1999-09-17 14:35	1999-09-17 17:00
X		5.7		1999-09-17 19:25
ASPO	DA3545G01	6.5	1999-09-17 19:25	1999-09-17 21:20
Xonä		6.5		1999-09-18 08:30
ASPO	DA3545G01	7.3	1999-09-18 08:30	1999-09-18 10:30
X O D O	D 1 0 1 0 0 0	7.3		1999-09-18 13:15
ASPO	DA3545G01	8.1	1999-09-18 13:15	1999-09-18 17:30
XODA	DAAFIFOOT	8.1		1999-09-18 19:50
ASPO	DA3545G01	8.37	1999-09-18 19:50	1999-09-18 21:55

Level of water in deposition boreholes during the period 1999-06-01 – 1999-12-28

Level of water in deposition boreholes

Date	Time_nr	DA3587	DA3581	DA3575	DA3569	DA3551	DA3545	Comment
1999-06-22	36333	0						
1999-07-02	36343		0					
1999-07-07	36348	4	2.5					
1999-07-07	36348	0	0					
1999-07-08	36349			0				
1999-07-15	36356				0			
1999-07-21	36362	0	0					
1999-07-22	36364		0					The water level in deposition hole DA3581 increased from 99-07-22 *)
1999-07-23	36364	1.2	1					The water level in deposition hole DA3587 and DA3581 were resp. 2.5 and 2 m *)
1999-07-23	36364	0	0					, , , , , , , , , , , , , , , , , , ,
1999-08-09	36382	0	0	0	0			Dewatering of the deposition holes stopped 99-08-09 *)
1999-08-12	36384	0						
1999-08-13	36385		0					
1999-08-16	36388			0				
1999-08-23	36395		8					
1999-08-24	36396			8	0			
1999-08-27	36399	8			8			
1999-09-01	36404					0		
1999-09-06	36409	8	8	8	8			
1999-09-06	36409	0	0	0	0			
1999-09-13	36416					0		
1999-09-16	36419					6		
1999-09-16	36419					0		
1999-09-18	36421					0	0	
1999-09-27	36430					8		
1999-09-27	36430					0		
1999-10-01	36434					0		
1999-10-05	36438					3.5		
1999-10-05	36438					0		
1999-10-11	36444	0	0	0	0	0	0	
1999-11-03	36467		0					
1999-11-05	36469	0						
1999-11-08	36472	1.5	5.5					
1999-11-08	36472	0	0					
2000-04-19	36635			0				
2000-04-26	36642			8				
2000-04-27	36643			0				
Pressure registration in observation sections during the period 1999-06-01 – 1999-12-28





^{/1310241/}data/bholeb03/Depositionholes_characterisation/Diagram/KA3539G.GRF





/1310241/data/bholeb03/Depositionholes_characterisation/Diagram/KA3542G2.GRF



^{/1310241/}data/bholeb03/Depositionholes_characterisation/Diagram/KA3544G.GRF



^{/1310241/}data/bholeb03/Depositionholes_characterisation/Diagram/KA3546G.GRF



/1310241/data/bholeb03/Depositionholes_characterisation/Diagram/KA3548A.GRF



^{/1310241/}data/bholeb03/Depositionholes_characterisation/Diagram/KA3548G.GRF





^{/1310241/}data/bholeb03/Depositionholes_characterisation/Diagram/KA3552G.GRF





^{/1310241/}data/bholeb03/Depositionholes_characterisation/Diagram/KA3554G2.GRF



^{/1310241/}data/bholeb03/Depositionholes_characterisation/Diagram/KA3557G.GRF



^{/1310241/}data/bholeb03/Depositionholes_characterisation/Diagram/KA3563G.GRF



^{/1310241/}data/bholeb03/Depositionholes_characterisation/Diagram/KA3566G1.GRF





/1310241/data/bholeb03/Depositionholes_characterisation/Diagram/KA3572G.GRF



^{/1310241/}data/bholeb03/Depositionholes_characterisation/Diagram/KA3573A.GRF





^{/1310241/}data/bholeb03/Depositionholes_characterisation/Diagram/KA3576G.GRF





/1310241/data/bholeb03/Depositionholes_characterisation/Diagram/KA3579G.GRF





^{/1310241/}data/bholeb03/Depositionholes_characterisation/Diagram/KA3590G1.GRF





/1310241/data/bholeb03/Depositionholes_characterisation/Diagram/KA3593G1.GRF



/1310241/data/bholeb03/Depositionholes_characterisation/Diagram/KA3600F.GRF



^{/1310241/}data/bholeb03/Depositionholes_characterisation/Diagram/KG0021A.GRF



^{/1310241/}data/bholeb03/Depositionholes_characterisation/Diagram/KG0021AB.GRF



Activity log of prototype repository during the period 1999-06-01 – 1999-12-28

Activity log.xls

Activity	Start Date	Start Time	Stop Date	Stop Time	Project	Idcode	Section No	Secup (m)	Seclow (m)	Flags
Radially converging	1999-06-02	09:57:00			TRUE Block Scale	KI0023B	6	70.95	71.95	
Borehole documentation with BOREMAP system	1999-06-02	13:35:00	1999-06-02	13:35:00	PROTOTYPE	KA3542G02		0	35.01	С
Borehole documentation with BOREMAP system	1999-06-02	16:05:00	1999-06-02	16:05:00	PROTOTYPE	KA3590G01		0	30.06	С
Borehole documentation with BOREMAP system	1999-06-02	16:38:00	1999-06-02	16:38:00	PROTOTYPE	KA3542G01		0	30.04	С
Borehole documentation with BOREMAP system	1999-06-03	11:24:00	1999-06-03	11:24:00	PROTOTYPE	KA3566G02		0	30.01	С
Borehole documentation with BOREMAP system	1999-06-03	11:24:00	1999-06-03	11:24:00	PROTOTYPE	KA3590G02		0	30.05	С
Borehole documentation with BOREMAP system	1999-06-03	13:17:00	1999-06-03	13:17:00	PROTOTYPE	KA3566G01		0	35.01	С
Borehole documentation with BOREMAP system	1999-06-03	14:17:00	1999-06-03	14:17:00	PROTOTYPE	KA3554G01		0	30.01	С
Borehole documentation with BOREMAP system	1999-06-03	14:40:00	1999-06-03	14:40:00	PROTOTYPE	KA3554G02		0	30.01	С
Borehole documentation with BOREMAP system	1999-06-03	15:24:00	1999-06-03	15:24:00	PROTOTYPE	KA3579G		0	22.65	С
Borehole documentation with BOREMAP system	1999-06-03	15:55:00	1999-06-03	15:55:00	PROTOTYPE	KA3573A		0	40.07	С
Borehole documentation with BOREMAP system	1999-06-03	17:19:00	1999-06-03	17:19:00	PROTOTYPE	KG0021A01		0	48.82	С
Weir - installation	1999-06-04	00:00:00	1999-06-18	00:00:00	PROTOTYPE	MA3532		3552	3546	
Weir - installation	1999-06-04	00:00:00	1999-06-18	00:00:00	PROTOTYPE	MA3546		3546	3552	
Weir - installation	1999-06-04	00:00:00	1999-06-18	00:00:00	PROTOTYPE	MA3552		3552	3570	
Weir - installation	1999-06-04	00:00:00	1999-06-18	00:00:00	PROTOTYPE	MA3570		3570	3576	
Weir - installation	1999-06-04	00:00:00	1999-06-18	00:00:00	PROTOTYPE	MA3576		3576	3582	
Weir - installation	1999-06-04	00:00:00	1999-06-18	00:00:00	PROTOTYPE	MA3582		3582	3588	
Weir - installation	1999-06-04	00:00:00	1999-06-18	00:00:00	PROTOTYPE	MA3588		3588	3600	
Weir - installation	1999-06-04	00:00:00	1999-06-18	00:00:00	PROTOTYPE	MA3532		3552	3546	
Weir - installation	1999-06-04	00:00:00	1999-06-18	00:00:00	PROTOTYPE	MA3546		3546	3552	
Weir - installation	1999-06-04	00:00:00	1999-06-18	00:00:00	PROTOTYPE	MA3552		3552	3570	
Weir - installation	1999-06-04	00:00:00	1999-06-18	00:00:00	PROTOTYPE	MA3570		3570	3576	
Weir - installation	1999-06-04	00:00:00	1999-06-18	00:00:00	PROTOTYPE	MA3576		3576	3582	
Weir - installation	1999-06-04	00:00:00	1999-06-18	00:00:00	PROTOTYPE	MA3582		3582	3588	
Weir - installation	1999-06-04	00:00:00	1999-06-18	00:00:00	PROTOTYPE	MA3588		3588	3600	
Borehole documentation with BOREMAP system	1999-06-04	07:52:00	1999-06-04	07:52:00	PROTOTYPE	KA3600F		0	50.1	С
Borehole documentation with BOREMAP system	1999-06-04	08:35:00	1999-06-04	08:35:00	PROTOTYPE	KA3548A01		0	30	С
Borehole documentation with BOREMAP system	1999-06-04	09:12:00	1999-06-04	09:12:00	PROTOTYPE	KG0048A01		0	54.69	С
Close pressure valve	1999-06-08	13:10:00	1999-06-08	13:10:00	PROTOTYPE	KA3566G01	4	1.3	6.3	R
Close pressure valve	1999-06-08	13:10:00	1999-06-08	13:10:00	PROTOTYPE	KA3572G01	2	1.3	5.3	R
Flushing water	1999-06-10	16:20:00	1999-06-10	16:24:00	TRUE Block Scale	KA3005A	2	46.78	50.03	
Flushing water	1999-06-10	16:20:00	1999-06-10	16:24:00	TRUE Block Scale	KA3005A	2	46.78	50.03	
Open pressure valve	1999-06-14	10:30:00	1999-06-14	10:30:00	TRUE Block Scale	KA3065A02		0	67	
Open pressure valve	1999-06-14	10:30:00	1999-06-14	10:30:00	TRUE Block Scale	KA3065A02		0	67	
TVO - Detailed difference flow measurements	1999-06-14	18:30:00	1999-06-15	15:30:00	TRUE Block Scale	KA3065A02		0	67	
TVO - Detailed difference flow measurements	1999-06-14	18:30:00	1999-06-15	15:30:00	TRUE Block Scale	KA3065A02		0	67	
Radially converging	1999-06-15	10:30:00	1999-06-15	10:30:00	TRUE Block Scale	KA2563A	1	242	246	
	1999-06-15	10:30:00	1999-06-15	10:30:00	TRUE Block Scale	KI0023B	6	70.95	71.95	
	1999-06-15	10:30:00	1999-06-15	10:30:00	TRUE Block Scale	KI0023B	6	70.95	71.95	
Close valve of flow line	1999-06-15	10:30:00	1999-06-15	10:30:00	TRUE Block Scale	KI0023B	6	70.95	71.95	
Radially converging	1999-06-15	10:30:00	1999-06-15	10:30:00	TRUE Block Scale	KI0025F02	6	64	72.3	
Radially converging	1999-06-15	10:30:00	1999-06-15	10:30:00	TRUE Block Scale	KI0025F02	3	93.35	99.25	
Flushing water	1999-06-15	10:33:00	1999-06-15	11:03:00	TRUE Block Scale	KI0025F02	3	93.35	99.25	
riusning water	1999-06-15	10:42:00	1999-06-15	13:26:00	TRUE Block Scale	KI0025F02	6	64	72.3	
Close valve of circulation line	1999-06-15	11:08:00	1999-06-15	11:08:00	TRUE Block Scale	KI0025F02	3	93.35	99.25	
	1999-06-15	11:08:00	1999-06-15	11:08:00	TRUE Block Scale	KI0025F02	3	93.35	99.25	
	1999-06-15	11:10:00	1999-06-15	11:10:00	TRUE Block Scale	KI0023B	7	43.45	69.95	
	1999-06-15	11:10:00	1999-06-15	11:10:00	TRUE Block Scale	KI0023B	7	43.45	69.95	
Close valve of circulation line	1999-06-15	11:10:00	1999-06-15	11:10:00	TRUE Block Scale	KI0023B	7	43.45	69.95	
Open pressure valve	1999-06-15	12:42:00	1999-06-15	12:42:00	PROTOTYPE	KG0021A01		0	48.8	

Activity log.xls

Activity	Start Date	Start Time	Stop Date	Stop Time	Project	Idcode	Section No	Secup (m)	Seclow (m)	Flags
Packer installation	1999-06-15	12:42:00	1999-06-15	19:30:00	PROTOTYPE	KG0021A01		0	48.8	M
Close valve of flow line	1999-06-15	13:26:00	1999-06-15	13:26:00	TRUE Block Scale	KI0025F02	6	64	72.3	
Close valve of circulation line	1999-06-15	13:26:00	1999-06-15	13:26:00	TRUE Block Scale	KI0025F02	6	64	72.3	
Flushing water	1999-06-15	14:03:00	1999-06-15	16:03:00	TRUE Block Scale	KA2563A	1	242	246	·····
Open valve of flow line	1999-06-15	14:06:00	1999-06-15	14:06:00	TRUE Block Scale	KA2563A	4	187	190	
Open valve of circulation line	1999-06-15	14:06:00	1999-06-15	14:06:00	TRUE Block Scale	KA2563A	4	187	190	
Flushing water	1999-06-15	14:07:00	1999-06-15	15:43:00	TRUE Block Scale	KA2563A	4	187	190	
Close valve of flow line	1999-06-15	15:44:00	1999-06-15	15:44:00	TRUE Block Scale	KA2563A	4	187	190	
Close valve of circulation line	1999-06-15	15:44:00	1999-06-15	15:44:00	TRUE Block Scale	KA2563A	4	187	190	
Close valve of flow line	1999-06-15	16:04:00	1999-06-15	16:04:00	TRUE Block Scale	KA2563A	1	242	246	
Close valve of circulation line	1999-06-15	16:04:00	1999-06-15	16:04:00	TRUE Block Scale	KA2563A	1	242	246	
Close pressure valve	1999-06-16	08:15:00	1999-06-16	08:25:00	TRUE Block Scale	KA3065A02	1	0	67	
Close pressure valve	1999-06-16	08:15:00	1999-06-16	08:25:00	TRUE Block Scale	KA3065A02		0	67	
Packer expand	1999-06-16	10:40:00	1999-06-16	11:02:00	PROTOTYPE	KG0021A01		+		R
TVO - Detailed difference flow measurements	1999-06-16	10:50:00	1999-06-16	22:30:00	TRUE Block Scale	KXTT5		0	25	···
Open pressure valve	1999-06-17	07:35:00	1999-06-17	07:35:00	TRUE Block Scale	KA2865A01		0	26	
TVO - Detailed difference flow measurements	1999-06-17	08:45:00	1999-06-17	16:15:00	TRUE Block Scale	KA2865A01		1	26	
Open pressure valve	1999-06-17	09.00.00	1999-06-17	09:00:00	PROTOTYPE	KG0048401		40	54.69	·· ··
Interference test	1999-06-17	09:00:00	1999-06-17	10:25:00	PROTOTYPE	KG0048401		49	54.69	
Close pressure valve	1999-06-17	10:25:00	1999-06-17	10:25:00	PROTOTYPE	KG0048401		40	54.69	· · · · · ·
HMS - Maintenance	1999-06-17	14:20:00	1999-06-18	11:45:00		KA3566G01		43	04.00	F
HMS - Maintenance	1999-06-17	14:20:00	1999-06-18	11:45:00		KA3566G02				
HMS - Maintenance	1999-06-17	14:20:00	1999-06-18	11:45:00		KA3572G01				<u>_</u>
Close pressure valve	1999-06-17	16:25:00	1999-06-17	16:25:00	TRUE Block Scale	KA2865A01		0	26	
Water inflow measurements in weirs	1999-06-18	14:32:00	1999-06-19	17:10:00	PROTOTYPE	MA3532		3532	3546	
Water inflow measurements in weirs	1999-06-18	14:32:00	1999-06-19	17:10:00	PROTOTYPE	MA3532		3532	3546	
Water inflow measurements in weirs	1999-06-19	16:27:00	1999-06-19	17:14:00	PROTOTYPE	MA3532		3532	3546	
Water inflow measurements in weirs	1999-06-19	16:27:00	1999-06-19	17:14:00	PROTOTYPE	MA3532		3532	3546	
Deposit hole boring data acquisition	1999-06-19	17:50:00	1999-06-22	21:32:00	PROTOTYPE	DA3587G01		0	8 37	
Deposit hole boring	1999-06-19	17:55:00	1999-06-22	21:32:00	PROTOTYPE	DA3587G01		0	8.37	
Deposit hole boring record	1999-06-19	17:55:00	1999-06-22	21:32:00	PROTOTYPE	DA3587G01		0	8 37	
Deposit hole boring	1999-06-30	08:00:00	1999-07-02	21:25:00	PROTOTYPE	DA3581G01		0	8.37	,,,
Deposit hole boring record	1999-06-30	08:00:00	1999-07-02	21:25:00	PROTOTYPE	DA3581G01		0	8.37	
Deposit hole boring data acquisition	1999-06-30	08:00:00	1999-07-02	21:25:00	PROTOTYPE	DA3581G01		0	8.37	
HMS - Maintenance	1999-06-30	13:00:00	1999-07-01	10:45:00		KA3590G01		ļ	0.07	F
HMS - Maintenance	1999-06-30	15:30:00	1999-06-30	16:15:00		KA3563G				
HMS - Maintenance	1999-06-30	15:30:00	1999-06-30	16:15:00		KA3574G01				 F
HMS - Maintenance	1999-06-30	15:30:00	1999-06-30	16:15:00		KA3576G01				F
HMS - Maintenance	1999-06-30	23:00:00	1999-07-01	10:45:00		KA3566G01				 F
HMS - Maintenance	1999-06-30	23:00:00	1999-07-01	10:45:00		KA3593G				
Flow measurement at weirs	1999-07-02	14:41:00	1999-07-02	14:41:00		MA3179G	1	2994	3179	
Flow measurement at weirs	1999-07-02	14:42:00	1999-07-02	14:42:00		MA3384G	1	340	450	
Flow measurement at weirs	1999-07-02	14:43:00	1999-07-02	14:43:00		MA3411G	1	3179	3411	
Flow measurement at weirs	1999-07-02	14:44:00	1999-07-02	14:44:00		MA3426G	1	3426	3600	
BIPS-logging in borehole	1999-07-03	13:00:00	1999-07-03	18:00:00	Chemlab-2	KJ0044F01		2	17	C
Open pressure valve	1999-07-03	13:20:00	1999-07-03	13:20:00	Chemlab-2	KJ0044F01		<u> </u>		C C
Open pressure valve	1999-07-03	15:40:00	1999-07-03	15:40:00	Chemlab-2	KJ0052F02			<u> </u>	
BIPS-logging in borehole	1999-07-03	16:10:00	1999-07-03	18:00:00	Chemlab-2	KJ0052E02	1	1.5	21.16	
Close pressure valve	1999-07-03	17:00:00	1999-07-03	17:00:00	Chemlab-2	KJ0052F02			21.10	
Close pressure valve	1999-07-03	17:10:00	1999-07-03	17:10:00	Chemlab-2	KJ0044F01				
Open pressure valve	1999-07-04	08:10:00	1999-07-04	08:10:00	Chemlab-2	KJ0052F03				c
Activity	Start Date	Start Time	Stop Date	Stop Time	Project	Ideodo	Conting Ma			
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Open pressure valve	1999-07-04	08:22:00	1999-07-04	08:22:00	Chemiah-2	K 10052E01	Section No	Secup (m)	Seclow (m)	Flags
BIPS-logging in borehole	1999-07-04	09:01:00	1999-07-04	11:00:00	Chemlab-2	K 10052F01		4.07	+	<u> </u>
BIPS-logging in borehole	1999-07-04	09:45:00	1999-07-04	10:30:00	Chemlab-2	K 10052F03		1.07	10.14	<u> </u>
Close pressure valve	1999-07-04	10:55:00	1999-07-04	10:55:00	Chemiah-2	K 10052E03		2.2	49.8	C
Close pressure valve	1999-07-04	11:00:00	1999-07-04	11:00:00	Chemlah-2	K 10052E01			<u>+</u>	
Open pressure valve	1999-07-04	15:00:00	1999-07-04	15:00:00	Select-2	KA3065A02		+		····-
BIPS-logging in borehole	1999-07-04	16:06:00	1999-07-04	17:07:00	Select-2	KA3065A02		+		
Close pressure valve	1999-07-04	17:15:00	1999-07-04	17:15:00	Select-2	KA3065A02		1	69.55	EC
BIPS-logging in borehole	1999-07-05	10:45:00	1999-07-05	11:10:00	PROTOTYPE	HC0008A01				
Open pressure valve	1999-07-05	16:20:00	1999-07-05	16:20:00	Select-2	KA2065A02		1.8	24	
Deposit hole boring	1999-07-05	16:50:00	1999-07-08	11:30:00	PROTOTYPE	DA3575C01	_		69.55	
Deposit hole boring record	1999-07-05	16:50:00	1999-07-08	11:30:00	PROTOTYPE	DA3575001		0	8.37	-
Radar logging - Directional Antenna	1999-07-05	17:00:00	1999-07-05	22:00:00	Select 2	KA2065A02		0	8.3/	
Close pressure valve	1999-07-05	18:25:00	1999-07-05	18:25:00	Chemiah 2	KA3065A02				
Deposit hole boring data acquisition	1999-07-07	15:48:00	1999-07-08	11:20:00		NA3065A02				-
Water inflow measurements in weirs	1999-07-08	07:45:00	1999-07-08	08:08:00	PROTOTYPE	DA3575GU1		0	8.37	
Deposit hole boring data acquisition	1999-07-13	09:57:00	1999-07-15	15:25:00	PROTOTYPE	TASA DAGGOGGA		3576	3580	
Deposit hole boring record	1999-07-13	10:00:00	1999-07-15	15:25:00	PROTOTYPE	DA3569G01		0	8.37	
Deposit hole boring	1999-07-13	10:00:00	1000-07-15	15:25:00	PROTOTYPE	DA3569G01		0	8.37	
Borehole direction surveying	1999-07-21	13:00:00	1999-07-13	15.25.00	PROTOTYPE	DA3569G01		0	8.37	
Borehole coordinate surveying	1999-07-21	13:00:00	1000.07-21	15:00:00	PROTOTYPE	DA358/G01		0	8.15	
Borehole direction surveying	1999-07-22	11:30:00	1000 07 22	15.00.00	PROTOTYPE	DA358/G01		0	8.15	1
Borehole coordinate surveying	1999-07-22	11:30:00	1999-07-22	13:30:00	PROTOTYPE	DA3581G01	_	0	8.15	1
Borehole direction surveying	1999-07-22	15:30:00	1999-07-22	13:30:00	PROTOTYPE	DA3581G01		0	8.15	
Borehole coordinate surveying	1999-07-22	15:30:00	1999-07-22	17:30:00	PROTOTYPE	DA3575G01		0	8.15	1
Borehole coordinate surveying	1999-07-23	10:00:00	1999-07-22	17.30.00	PROTOTYPE	DA3575G01		0	8.15	<u> </u>
Borehole direction surveying	1999-07-23	10:00:00	1999-07-23	12:00:00	PROTOTYPE	DA3569G01		0	8.15	1
Packer release	1999-07-27	08:45:00	1000.07.20	12:00:00	PROTOTYPE	DA3569G01		0	8.15	
Packer release	1999-07-27	08:45:00	1999-07-30	11:00:00	PROTOTYPE	KA3539G				
Packer release	1999-07-27	08:45:00	1000 07 20	11.00.00	PROTOTYPE	KA3542G01				
Packer release	1999-07-27	08:45:00	1000.07.20	11:00:00	PROTOTYPE	KA3542G02				
Packer release	1999-07-27	08:45:00	1999-07-30	11:00:00	PROTOTYPE	KA3544G01				
Packer release	1999-07-27	08:45:00	1999-07-30	11:00:00	PROTOTYPE	KA3546G01				
Packer release	1999-07-27	08:45:00	1999-07-30	11:00:00	PROTOTYPE	KA3550G01				
Packer release	1999-07-27	08:45:00	1999-07-30	11:00:00	PROTOTYPE	KA3552G01				
Packer release	1999-07-27	08:45:00	1999-07-30	11:00:00	PROTOTYPE	KA3554G01				
Packer release	1999-07-27	08:45:00	1999-07-30	11:00:00	PROTOTYPE	KA3554G02				
Packer release	1999-07-27	08:45:00	1999-07-30	11:00:00	PROTOTYPE	KA3563G				
Packer release	1999-07-27	08:45:00	1999-07-30	11:00:00	PROTOTYPE	KA3572G01				
Packer release	1999-07-27	08:45:00	1999-07-30	11:00:00	PROTOTYPE	KA3574G01				
Packer release	1999-07-27	08:45:00	1999-07-30	11:00:00	PROTOTYPE	KA3578G01				
Packer release	1999-07-27	08:45:00	1999-07-30	11:00:00	PROTOTYPE	KA3579G		1		
Packer release	1999-07-27	08:45:00	1999-07-30	11:00:00	PROTOTYPE	KA3590G01				
Packer release	1999-07-27	00.45.00	1999-07-30	11:00:00	PROTOTYPE	KA3590G02				
Open pressure valve	1999-07-27	08:45:00	1999-07-30	11:00:00	PROTOTYPE	KA3593G		í		
Instant pressure and flow measurements	1999-07-28	14:58:00	1999-07-28	14:58:00	TRUE Block Scale	KI0025F	4	86	88	
Close pressure valve	1000.07.00	14:58:00	1999-07-28	15:36:00	TRUE Block Scale	KI0025F		86	88	
Packer release	1999-07-28	15:36:00	1999-07-28	15:36:00	TRUE Block Scale	KI0025F	4	86	88	
Open pressure valve	1999-07-28	17:45:00	1999-07-29	11:07:00	TRUE Block Scale	KI0025F				
Water inflow measurements in weire	1999-07-29	08:43:00	1999-07-29	08:43:00	TRUE Block Scale	KI0025F				
Water inflow measurements in weirs	1999-07-29	09:00:00	1999-07-29	13:00:00	PROTOTYPE	MA3570		3570	3574	
valor infow measurements in weirs	1999-07-29	09:00:00	1999-07-29	13:00:00	PROTOTYPE	MA3576		3576	3580	

Activity	Start Date	Start Time	Stop Date	Stop Time	Project	Idcode	Section No	Secup (m)	Seclow (m)	Flags
Water inflow measurements in weirs	1999-07-29	09:00:00	1999-07-29	13:00:00	PROTOTYPE	MA3582		3582	3586	
Water inflow measurements in weirs	1999-07-29	09:00:00	1999-07-29	13:00:00	PROTOTYPE	MA3570		3570	3574	
Water inflow measurements in weirs	1999-07-29	09:00:00	1999-07-29	13:00:00	PROTOTYPE	MA3576	-	3576	3580	
Water inflow measurements in weirs	1999-07-29	09:00:00	1999-07-29	13:00:00	PROTOTYPE	MA3582		3582	3586	
Water inflow measurements in weirs	1999-07-29	09:00:00	1999-07-29	13:00:00	PROTOTYPE	MA3588		3388	3600	
Close pressure valve	1999-07-29	09:22:00	1999-07-29	09:22:00	TRUE Block Scale	KI0025F				
Packer expand	1999-07-29	11:07:00	1999-07-29	11:07:00	TRUE Block Scale	KI0025F			1	
Instant pressure and flow measurements	1999-07-29	12:42:00	1999-07-29	12:42:00	TRUE Block Scale	KI0025F	4	87.5	89.5	
Open pressure valve	1999-07-29	12:42:00	1999-07-29	12:42:00	TRUE Block Scale	KI0025F	4	87.5	89.5	
Close pressure valve	1999-07-29	13:20:00	1999-07-29	13:20:00	TRUE Block Scale	KI0025F	4	87.5	89.5	
Instant pressure and flow measurements	1999-07-30	08:46:00	1999-07-30	08:53:00	TRUE Block Scale	K10025F	3	90,5	164.5	
Open pressure valve	1999-07-30	08:46:00	1999-07-30	08:46:00	TRUE Block Scale	K10025F	3	90.5	164.5	
Close pressure valve	1999-07-30	08:53:00	1999-07-30	08:53:00	TRUE Block Scale	KI0025F	3	90.5	164.5	
Instant pressure and flow measurements	1999-07-30	08:57:00	1999-07-30	09:03:00	TRUE Block Scale	KI0025F	5	42.5	86.5	
Open pressure valve	1999-07-30	08:57:00	1999-07-30	08:57:00	TRUE Block Scale	KI0025F	5	42.5	86.5	
Close pressure valve	1999-07-30	09:03:00	1999-07-30	09:03:00	TRUE Block Scale	K10025F	5	42.5	86.5	
Borehole documentation with BOREMAP system	1999-08-03	08:32:00	1999-08-03	08:32:00	Select-2	KA3065A02		2.29	69.75	
Flow measurement at weirs	1999-08-03	15:12:00	1999-08-03	15:12:00		MA3179G	1	2994	3179	
Flow measurement at weirs	1999-08-03	15:19:00	1999-08-03	15:19:00		MA3384G	1	340	450	
Flow measurement at weirs	1999-08-03	15:20:00	1999-08-03	15:20:00		MA3411G	1	3179	3411	
Flow measurement at weirs	1999-08-03	15:21:00	1999-08-03	15:21:00		MA3426G	1	3426	3600	
Packer installation	1999-08-04	16:20:00	1999-08-04	16:20:00	PROTOTYPE	KA3539G		0	30.01	М
Packer expand	1999-08-04	16:20:00	1999-08-04	16:20:00	PROTOTYPE	KA3539G		0	30.01	R
Packer expand	1999-08-04	16:20:00	1999-08-04	16:20:00	PROTOTYPE	KA3542G01	1	0	30.04	R
Packer installation	1999-08-04	16:20:00	1999-08-04	16:20:00	PROTOTYPE	KA3542G01		0	30.04	М
Packer expand	1999-08-04	16:20:00	1999-08-04	16:20:00	PROTOTYPE	KA3542G02		0	30.01	R
Packer installation	1999-08-04	16:20:00	1999-08-04	16:20:00	PROTOTYPE	KA3542G02		0	30.01	М
Packer installation	1999-08-04	16:20:00	1999-08-04	16:20:00	PROTOTYPE	KA3544G01		0	12	М
Packer expand	1999-08-04	16:20:00	1999-08-04	16:20:00	PROTOTYPE	KA3544G01		0	12	R
Packer installation	1999-08-04	16:20:00	1999-08-04	16:20:00	PROTOTYPE	KA3546G01		0	12	М
Packer expand	1999-08-04	16:20:00	1999-08-04	16:20:00	PROTOTYPE	KA3546G01		0	12	R
Packer installation	1999-08-04	16:20:00	1999-08-04	16:20:00	PROTOTYPE	KA3550G01		0	12.03	М
Packer expand	1999-08-04	16:20:00	1999-08-04	16:20:00	PROTOTYPE	KA3550G01		0	12.03	R
Packer installation	1999-08-04	16:20:00	1999-08-04	16:20:00	PROTOTYPE	KA3552G01		0	12	М
Packer expand	1999-08-04	16:20:00	1999-08-04	16:20:00	PROTOTYPE	KA3552G01		0	12	R
Packer installation	1999-08-04	16:20:00	1999-08-04	16:20:00	PROTOTYPE	KA3554G01		0	30.01	М
Packer expand	1999-08-04	16:20:00	1999-08-04	16:20:00	PROTOTYPE	KA3554G01		0	30.01	R
Packer installation	1999-08-04	16:20:00	1999-08-04	16:20:00	PROTOTYPE	KA3554G02		0	30.01	М
Packer expand	1999-08-04	16:20:00	1999-08-04	16:20:00	PROTOTYPE	KA3554G02		0	30.01	R
Core drilling record	1999-08-05	08:30:00	1999-08-13	10:33:00	TRUE	KI0025F03		0	141.72	
Core drilling	1999-08-05	08:30:00	1999-08-13	10:33:00	TRUE	KI0025F03		0	141.72	
Packer installation	1999-08-05	13:00:00	1999-08-05	16:00:00	PROTOTYPE	KA3563G		0	30	М
Packer expand	1999-08-05	13:00:00	1999-08-05	16:00:00	PROTOTYPE	KA3563G		0	30	R
Packer installation	1999-08-05	13:00:00	1999-08-05	16:00:00	PROTOTYPE	KA3572G01		0	12	M
Packer expand	1999-08-05	13:00:00	1999-08-05	16:00:00	PROTOTYPE	KA3572G01		0	12	R
Packer expand	1999-08-05	13:00:00	1999-08-05	16:00:00	PROTOTYPE	KA3574G01		0	12	R
Packer installation	1999-08-05	13:00:00	1999-08-05	16:00:00	PROTOTYPE	KA3574G01		0	12	М
Packer installation	1999-08-05	13:00:00	1999-08-05	16:00:00	PROTOTYPE	KA3578G01		0	12.6	М
Packer expand	1999-08-05	13:00:00	1999-08-05	16:00:00	PROTOTYPE	KA3578G01		0	12.6	R
Packer expand	1999-08-05	13:00:00	1999-08-05	16:00:00	PROTOTYPE	KA3579G				
Packer installation	1999-08-05	13:00:00	1999-08-05	16:00:00	PROTOTYPE	KA3579G		0	22.7	

Activity	Start Date	Start Time	Stop Date	Ston Time	Project	Ideode	Section No.	Secure (m)	Sociow (m)	Flags
Packer installation	1999-08-05	13:00:00	1999-08-05	16:00:00	PROTOTYPE	KA3590C01	Section NO	Secup (m)	30.01	Flays
Packer expand	1999-08-05	13:00:00	1999-08-05	16:00:00	PROTOTYPE	KA3500C01			30.01	
Packer installation	1999-08-05	13:00:00	1999-08-05	16:00:00	PROTOTYPE	KA3590G01	+	0	30.01	<u>N</u>
Packer expand	1999-08-05	13:00:00	1999-08-05	16:00:00	PROTOTYPE	KA3590G02			30.01	
Packer installation	1999-08-05	13:00:00	1999-08-05	16:00:00	PROTOTYPE	KA3590G02		0	20	<u> </u>
Packer expand	1999-08-05	13:00:00	1999-08-05	16:00:00	PROTOTYPE	KA3593G		0	30	
Flush water recording	1999-08-07	08:40:00	1000 08 13	08:05:00	TRUE	KA3593G		0	30	K
Borehole coordinate surveying	1999-08-13	17:30:00	1999-00-13	17:30:00		KI0025F03		0	141.72	
Borehole direction surveying	1999-08-13	17:30:00	1999-00-13	17:30:00	TRUE	KI0025F03		- 0	0	<u> </u>
Maxibor measurement	1999-08-13	18:00:00	1999-00-13	17.30.00		KI0025F03		0	6	
Open pressure valve	1999-08-16	10:28:00	1000 08 16	10:29:00	PROTOTYPE	K10025F03	4	0	141	10
Close pressure valve	1999-08-16	10:30:00	1000 09 16	10:20:00	PROTOTYPE	KA3554G01		22.3	30.01	
Open pressure valve	1999-08-16	12:02:00	1999-00-10	10.30.00	PROTOTYPE	KA3554GU1	1	22.3	30.01	
Interference test	1999-08-16	12:02:00	1999-00-10	12.02.00	PROTOTYPE	KA3554G02	2	10.3	21.3	
Close pressure valve	1999-08-16	16:06:00	1999-00-17	10.20.00	PROTOTYPE	KA3554G02	2	10.3	21.3	
HMS - Maintenance	1999-08-17	10:25:00	1000.09.17	10.00.00	PROTOTTPE	KA3542G02	<u> </u>	13.8	21.3	
HMS - Maintenance	1000 08 17	10:25:00	1999-00-17	11.30.00		KASTUSA	1	53	69	<u> </u>
Interference test	1000 08 17	10:25:00	1999-00-17	11:30:00	DDOTOT/05	KASTIDA	2	/	19	<u> </u>
	1000 09 17	12.00.00	1999-00-18	09:55:00	PROTOTYPE	KA3542G01	2	8.8	24.8	
Close pressure valve	1999-00-17	17.00.00	1999-08-17	17:00:00	PROTOTYPE	KA3542G01	2	8.8	24.8	
Onen pressure valve	1999-00-17	10:05:00	1999-08-17	18:05:00	PROTOTYPE	KA3542G01	2	8.8	24.8	
Interference test	1000.09.19	11:00:00	1999-08-18	11:00:00	PROTOTYPE	KA3554G01	1	22.3	30.01	
	1000 09 19	11.00.00	1999-08-19	09:55:00	PROTOTYPE	KA3554G01	1	22.3	30.01	
	1999-00-10	13:00:00	1999-08-18	18:00:00	PROTOTYPE	KA3548G01				
	1000 09 19	13:00:00	1999-08-18	18:00:00	PROTOTYPE	KA3548G01				
Elushing borehole	1999-00-10	13.00.00	1999-08-18	18:00:00	PROTOTYPE	KA3548G02				
Flushing borehole	1999-00-10	13:00:00	1999-08-18	18:00:00	PROTOTYPE	KA3548G02				
	1999-00-10	13:00:00	1999-08-18	18:00:00	PROTOTYPE	KA3551G01				
	1999-00-10	13:00:00	1999-08-18	18:00:00	PROTOTYPE	KA3551G01				
	1999-00-10	13:00:00	1999-08-18	18:00:00	PROTOTYPE	KA3553G01				
Close pressure valve	1999-00-10	13.00.00	1999-08-18	18:00:00	PROTOTYPE	KA3553G01				
Open pressure valve	1999-00-10	17:04:00	1999-08-18	17:04:00	PROTOTYPE	KA3554G01	1	22.3	30.01	
Interference test	1999-08-19	10:00:00	1999-08-19	10:00:00	PROTOTYPE	KA3542G02	4	1.3	7.8	
	1999-00-19	10.00.00	1999-08-20	08:55:00	PROTOTYPE	KA3542G02	4	1.3	7.8	
Seismic cross holo mossuromente	1999-00-19	15:01:00	1999-08-19	15:01:00	PROTOTYPE	KA3542G02	4	1.3	7.8	
Acoustic emission measurements	1999-08-19	21:00:00	1999-09-18	23:00:00	PROTOTYPE	KA3548G01				
Acoustic emission measurements	1999-08-19	21:00:00	1999-09-18	23:00:00	PROTOTYPE	KA3548G01				
Seismic cross hole measurements	1999-08-19	21.00.00	1999-09-18	23:00:00	PROTOTYPE	KA3548G02				
	1999-08-19	21:00:00	1999-09-18	23:00:00	PROTOTYPE	KA3548G02				
Seismic cross belo measurements	1999-06-19	21.00.00	1999-09-18	23:00:00	PROTOTYPE	KA3551G01				
Seismic cross hole measurements	1999-08-19	21:00:00	1999-09-18	23:00:00	PROTOTYPE	KA3551G01				
	1999-08-19	21:00:00	1999-09-18	23:00:00	PROTOTYPE	KA3553G01				
	1999-08-19	21:00:00	1999-09-18	23:00:00	PROTOTYPE	KA3553G01				
	1999-08-20	09:00:00	1999-08-20	09:00:00	PROTOTYPE	KG0021A01	3	25	34	
	1999-08-20	09:00:00	1999-08-21	09:55:00	PROTOTYPE	KG0021A01	3	25	34	
Interference test	1999-08-20	15:00:00	1999-08-20	15:00:00	PROTOTYPE	KG0021A01	3	25	34	
	1999-08-21	10:00:00	1999-08-22	08:55:00	PROTOTYPE	KG0021A01	1	42.5	48.8	
Close pressure valve	1999-08-21	10:10:00	1999-08-21	10:10:00	PROTOTYPE	KG0021A01	1	42.5	48.8	
Onen pressure valve	1999-08-21	16:02:00	1999-08-21	16:02:00	PROTOTYPE	KG0021A01	1	42.5	48.8	
Upen pressure valve	1999-08-22	09:03:00	1999-08-22	09:03:00	PROTOTYPE	KA3539G	2	9.8	18.3	
	1999-08-22	09:03:00	1999-08-22	18:00:00	PROTOTYPE	KA3539G	2	9.8	18.3	
Close pressure valve	1999-08-22	10:11:00	1999-08-22	10:11:00	PROTOTYPE	KA3539G	2	9.8	18.3	

Activity	Start Date	Start Time	Stop Date	Stop Time	Project	Idcode	Section No	Secun (m)	Seclow (m)	Flags
HMS - Maintenance	1999-08-24	14:55:00	1999-08-25	08:57:00		KA3550G01	1	6.3	12.03	C
HMS - Maintenance	1999-08-25	08:57:00	1999-08-25	09:13:00		KA3550G01	2	1.3	53	
Deposit hole boring data acquisition	1999-08-26	12:44:00	1999-08-30	10:21:00	PROTOTYPE	DA3551G01		0	8.37	
Deposit hole boring	1999-08-26	13:05:00	1999-09-01	14:08:00	PROTOTYPE	DA3551G01		0	8.37	
Deposit hole boring record	1999-08-26	13:05:00	1999-09-01	14:08:00	PROTOTYPE	DA3551G01		0	8.37	
HMS - Maintenance	1999-08-27	11:14:00	1999-08-27	11:37:00		KA3550G01	1	63	12.03	0
Flow measurement at weirs	1999-09-02	14:25:00	1999-09-02	14:25:00		MA3179G	1	2994	3179	
Flow measurement at weirs	1999-09-02	14:40:00	1999-09-02	14:40:00		MA3426G	1	3426	3600	
Flow measurement at weirs	1999-09-02	14:41:00	1999-09-02	14:41:00		MA3411G	1	3179	3411	
Flow measurement at weirs	1999-09-02	14:42:00	1999-09-02	14:42:00		MA3384G	1	340	450	
Deposit hole boring data acquisition	1999-09-14	07:27:00	1999-09-18	21:46:00	PROTOTYPE	DA3545G01	· · · · · · ·	0	9.37	
Deposit hole boring record	1999-09-14	08:30:00	1999-09-18	21:55:00	PROTOTYPE	DA3545G01		0	8.37	
Deposit hole boring	1999-09-14	08:30:00	1999-09-18	21:55:00	PROTOTYPE	DA3545G01		0	0.37	·
Borehole direction surveying	1999-09-14	14:30:00	1999-09-14	14:30:00	Demo Renosit	HA3145G01		0	0.37	
Borehole coordinate surveying	1999-09-14	14:30:00	1999-09-14	14:30:00	Demo Reposit	HA3145C01		0	0,90	I
Geological mapping	1999-09-15	14:30:00	1999-09-20	16:30:00	Canister Retrieval	DA3147G01		0	0.90	
Start pumping	1999-09-16	14:30:00	1999-09-16	14:30:00	Canister Retrieval	DA3147G01			0.0	
Stop pumping	1999-09-16	15:30:00	1999-09-16	15:30:00	Capister Retrieval	DA3147G01				
Start pumping	1999-09-17	09:00:00	1999-09-17	09:00:00	Canister Retrieval	DA3147G01				
Stop pumping	1999-09-17	10:00:00	1000-00-17	10:00:00	Canister Retrieval	DA3147G01				
Open pressure valve	1999-09-20	17:35:00	1999-09-17	17:25:00	Carrister Retrieval	DA3147G01				
BIPS-logging in borehole	1999-09-20	20:21:00	1999-09-20	17.35.00	Select-2	KA3065A02				
Close pressure valve	1999-09-20	21:40:00	1999-09-20	21.22.00	Select-2	KA3065A02		1	69.5	
Open pressure valve	1999-09-21	10:08:00	1999-09-20	21.40.00	TDUE Disch Casta	KA3065A02				
TVO - Difference flow measurements	1999-09-21	10:20:00	1999-09-21	07:00:00	TRUE Block Scale	KI0025F03				
BIPS-logging in borehole	1999-09-21	12:05:00	1999-09-22	15:30:00	TRUE Block Scale	KI0025F03		15	143.8	
TVO - Detailed difference flow measurements	1999-09-22	08:00:00	1999-09-21	15.30.00	TRUE Block Scale	KI0025F03		2.7	141.47	C
Open pressure valve	1999-09-22	09:55:00	1999-09-22	09.00.00	TRUE BIOCK Scale	KIUU25F03		0	15	
Close pressure valve	1999-09-22	09:56:00	1999-09-22	09.55.00	GVVCIVI	KA3010A	2	8.56	15	
Open pressure valve	1999-09-22	10:10:00	1999-09-22	10:10:00	GWUM	KA3U1UA	2	8.56	15	
Close pressure valve	1999-09-22	10:11:00	1999-09-22	10:10:00	CIAICIA	KA3105A	3	23	25	
Open pressure valve	1999-09-23	13:21:00	1000.00.22	12:21:00	GWCM	KA3105A	3	23	25	
Close pressure valve	1999-09-23	13:22:00	1000 00 22	13:21:00	GWUM	KA3385A	1	32	34	
UHT - Mobilization	1999-09-20	08:00:00	1999-09-23	13.22.00		KA3385A	1	32	34	
Open pressure valve	1999-09-27	00:00:00	1999-10-04	21:30:00	TRUE BIOCK Scale	KI0025F03				
Open pressure valve	1000.00.27	09:00:00	1999-09-27	09:00:00	GWCM	KI0023B	6	70.95	71.95	R
Open pressure valve	1999-09-27	09.00.00	1999-09-27	09:00:00	GWCM	K10023B	4	84.75	86.2	R
Water sampling class 4	1999-09-27	09:00:00	1999-09-27	09:00:00	TRUE Block Scale	KI0023B	7	43.45	69.95	R
Water sampling, class 4	1000.00.27	09.10.00	1999-09-27	10:50:00	GWCM	KI0023B	6	70.95	71.95	M
Water sampling, class 4	1000 00 27	09.15.00	1999-09-27	10:40:00	GWCM	K10023B	4	84.75	86.2	M
Water sampling, class 2	1000.00.27	09.15.00	1999-09-27	10:45:00	TRUE Block Scale	KI0023B	7	43.45	69.95	M
Water sampling, class 2	1999-09-27	10.00.00	1999-09-27	11:00:00	GWCM	MA3179G				
Water sampling, class 2	1999-09-27	10:00:00	1999-09-27	11:00:00	GWCM	MA3384G				
Water sampling, class 2	1999-09-27	10:00:00	1999-09-27	11:00:00	GWCM	MA3411G				
Close pressure valve	1999-09-27	10:00:00	1999-09-27	11:00:00	GWCM	MA3426G				
Close pressure valve	1999-09-27	10:00:00	1999-09-27	10:00:00	GWCM	KI0023B	6	70.95	71.95	R
Close pressure value	1999-09-27	10:45:00	1999-09-27	10:45:00	GWCM	KI0023B	4	84.75	86.2	R
	1999-09-27	10:50:00	1999-09-27	10:50:00	TRUE Block Scale	KI0023B	7	43.45	69.95	R
	1999-09-27	13:50:00	1999-09-27	13:50:00	TRUE Block Scale	KI0025F02	7	56.1	63	R
Acoustic emission measurements	1999-09-27	18:00:00	1999-09-28	19:00:00	PROTOTYPE	KA3543G01				
Seismic cross-noie measurements	1999-09-27	18:00:00	1999-09-28	19:00:00	PROTOTYPE	KA3543G01				
Acoustic emission measurements	1999-09-27	18:00:00	1999-09-28	19:00:00	PROTOTYPE	KA3545G02				

Stantic cost-Add messurements 1060.06.27 150.000 PROTOTYPE KA3456032 Image: Cost-Add messurements Manual cost-Add messurements 1090.027 150.000 PROTOTYPE KA3456031 Image: Cost-Add messurements Manual cost-Add messurements 1090.027 150.000 1090.020 1000.00 PROTOTYPE KA3456031 Image: Cost-Add messurements Manual cost-Add messurements 1090.027 150.000 1090.020 1000.00 PROTOTYPE KA3456031 Image: Cost-Add messurements Manual cost-Add messurements 1090.022 1000.00 1090.020 1000.00 1000.000 Image: Cost-Add messurements Manual cost-Add messurements 1090.023 1000.00 1000.0000	Activity	Start Date	Start Time	Stop Date	Stop Time	Project	Idcode	Section No	Secup (m)	Seclow (m)	Flags
Setter costs Alle mesuarements 1969-56-27 16 0.00 1969-56-27 16 0.00 PROTOTPE RA3546601 Image: Cost of the mesuarements Setter costs Alle mesuarements 1969-56-27 16 0.00 1966-528 1900-508 PROTOTPE RA354601 Image: Cost of the mesuarements Image: Cost of the mesuarements 1969-56-27 16 0.00 1969-56-28 1900-50 PROTOTPE RA354601 Image: Cost of the mesuarements 1969-56-28 1900-50 TRUE Book Scale RA354601 Image: Cost of the mesuarements 1969-56-28 0.00000 1969-56-28 0.00000 TRUE Book Scale RA2563A 1 242 RA RA 1969-56-28 0.00000 1969-56-28 0.00000 TRUE Book Scale RA2563A 1 242 RA 1969-56-28 1969-56-28 0.00000 TRUE Book Scale RA2563A 4 187 1969-56-28 1969-56-28 0.00000 TRUE Book Scale RA2563A 4 187 1969-56-28 1969-56-28 1969-56-28 1969-56-28 1969-56-28 1969-56-28 1969-56-28 1969-56-28 1969-56-28 <td< td=""><td>Seismic cross-hole measurements</td><td>1999-09-27</td><td>18:00:00</td><td>1999-09-28</td><td>19:00:00</td><td>PROTOTYPE</td><td>KA3545G02</td><td></td><td>1</td><td></td><td></td></td<>	Seismic cross-hole measurements	1999-09-27	18:00:00	1999-09-28	19:00:00	PROTOTYPE	KA3545G02		1		
Acoustice measurements 1996-04-27 18 00:00 1996-05-20 1900.00 PRC/TOTYPE KASS460.30 Image: Constant of the second of the secon	Seismic cross-hole measurements	1999-09-27	18:00:00	1999-09-28	19:00:00	PROTOTYPE	KA3548G01				
Selence construit 1996-06-27 15:00:00 1996-06-28 19:00:00 PRCTOTYPE KA3546003 U U U UHI 1: Galassian 1998-06-27 18:00:00 1996-06-28 19:00:00 PRCTOTYPE KA3546003 I 2:27 286 R Open pressure valve 1998-06-28 09:00:00 1996-06-28 09:00:00 19:00:02 3 0:00 2:86 R Open pressure valve 1998-06-28 09:00:00 19:96:06-28 09:00:00 19:96:06-28 09:00:00 19:96:06-28 09:00:00 19:96:06-28 09:00:00 19:96:06-28 09:00:00 19:96:06-28 09:00:00 19:96:06-28 09:00:00 19:96:06-28 09:00:00 19:96:06-28 10:00:00 19:96:06-28 10:00:00 19:96:06-28 10:00:00 19:90:06-28 10:00:00 19:90:06-28 10:00:00 19:90:06-28 10:00:00 19:90:06-28 10:00:00 19:90:06-28 10:00:00 19:90:06-28 10:00:00 19:90:06-28 10:00:00 19:90:06-28 10:00:00 19:90:06-28 10:00:00	Acoustic emission measurements	1999-09-27	18:00:00	1999-09-28	19:00:00	PROTOTYPE	KA3548G01	1			
Accuste onission measurements 1996.00.27 18.00.00 1996.00.28 1900.00 TRUE Biock Scale Non-Scale No-Scale Non-Scale	Seismic cross-hole measurements	1999-09-27	18:00:00	1999-09-28	19:00:00	PROTOTYPE	KA3548G03				
UHT - Glubolich 1996-06-20 1996-06-30 FTUE Bluot State M0025F73 FTUE Bluot State M21 M24 Z44 R Open restate wind 1996-06-20 090.00 1700E Block State KA285AA 1 244 Z46 R Open restate wind 1996-06-20 060.00 1700E Block State KA285AA 1 244 Z46 R Open restate wind 1996-06-20 060.00 1700E Block State K00025F62 3 7.3 7.725 R Water sampling, clas 5 1996-06-20 091.00 1996-06-20 110.00 TRUE Block State K0025F62 3 7.3 7.725 M Water sampling, clas 5 1996-06-20 091.00 1996-06-20 110.00 TRUE Block State K0025F62 3 7.3 7.725 M Water sampling, clas 5 1996-06-20 1996-06-20 110.00 TRUE Block State	Acoustic emission measurements	1999-09-27	18:00:00	1999-09-28	19:00:00	PROTOTYPE	KA3548G03				
Open pressury wink 1999.06-23 090.000 TRUE Block Scale KA2863A 4 197 190 R Open pressury wink 1990.06-23 000.00 TRUE Block Scale KA285AA 3 202 203 R Open pressury wink 1990.06-23 000.00 TRUE Block Scale KA285AA 3 203 203 8 Open pressury wink 1990.06-23 000.00 1996.06-23 000.00 TRUE Block Scale KA285AA 3 7.3 7.25 R Open pressury wink 1996.06-23 000.00 1996.06-23 110.00 TRUE Block Scale KA285AA 4 7.3 7.25 R Mater sampling, Casa 5 1996.06-23 000.100 TRUE Block Scale KA265AA 4 7.3 7.25 M Mater sampling, Casa 5 1996.06-23 10.100 TRUE Block Scale KA265AA 4 7.3 7.25 M Mater sampling, Casa 5 1996.06-23 10.100 TRUE Block Scale KA0256AA 4 7.3	UHT - Calibration	1999-09-27	18:00:00	1999-09-30	10:00:00	TRUE Block Scale	KI0025F03				
Open pressure valve 1999-06-28 090-000 1999-06-28 090-000 1999-06-28 090-000 1999-06-28 090-000 1999-06-28 090-000 1999-06-28 090-000 1999-06-28 090-000 1999-06-28 090-000 1999-06-28 090-000 1999-06-28 090-000 1999-06-28 090-000 1999-06-28 090-000 1999-06-28 090-000 1999-06-28 090-000 1999-06-28 090-000 1999-06-28 090-000 1999-06-28 090-000 1999-06-28 110-00 170-00 Book Scale K00025F02 5 7.3 77.25 M Water amroling, clas 5 1999-06-28 101-00 1999-06-28 111-500 TRUE Block Scale K0025F02 5 7.3 77.25 M Water amroling, clas 5 1999-06-28 111-500 TRUE Block Scale K0025F02 6 6 7.3 7.7 K Disp pressure valve 1999-06-28 111-500 TRUE Block Scale K0025F02 6 64 7.3 7.8 R Disp pr	Open pressure valve	1999-09-28	09:00:00	1999-09-28	09:00:00	TRUE Block Scale	KA2563A	4	187	190	R
Open pressure valve 1998-09-28 0 0 00.00 1998-09-28 0 1998-09-28<	Open pressure valve	1999-09-28	09:00:00	1999-09-28	09:00:00	TRUE Block Scale	KA2563A	1	242	246	R
Water sampling, class 4 1998-09-28 0 0 50:00 1998-09-28 0 11000 TRUE Bicks Scale KN025F02 3 50:35 93:35 9	Open pressure valve	1999-09-28	09:00:00	1999-09-28	09:00:00	TRUE Block Scale	KA2563A	3	206	208	R
Open pressure valve 1999.09-28 096.50 TTRUE Block Scale KN0025F72 3 8.33.5 99.25 R Water sampling, class 5 1996.09-28 0015.00 1999.09-28 0010.00 TRUE Block Scale KN0025F72 5 73.3 77.25 R Water sampling, class 5 1996.09-28 0.015.00 170.00 TRUE Block Scale KN205F02 5 73.3 77.25 R Water sampling, class 5 1996.09-28 0.100.00 TRUE Block Scale KN205F02 5 73.3 77.25 R Water sampling, class 5 100.00 1998.09-28 101.00.0 TRUE Block Scale KN205F02 5 73.3 77.25 R Ordea pressure valve 1999.09-28 110.50.0 TRUE Block Scale KN205F02 5 73.3 77.25 R Ordea pressure valve 1999.09-28 111.50.0 TRUE Block Scale KN205F02 7 60.1 8.3 92.6 73.3 R Ordea pressure valve 1999.09-28 111.70.0 <	Water sampling, class 4	1999-09-28	09:00:00	1999-09-28	11:15:00	TRUE Block Scale	KI0025F02	7	56.1	63	М
Open persure valve 1999-09-28 09 00 00 1999-09-28 1700 00 00 17000	Open pressure valve	1999-09-28	09:05:00	1999-09-28	09:05:00	TRUE Block Scale	KI0025F02	3	93.35	99.25	R
Water sampling, class 5 1989-09-28 0915:00 1989-09-28 110:000 TULE Block Scale KA2683A 4 167 190 M Water sampling, class 5 1989-09-28 0915:00 1989-09-28 101:000 TULE Block Scale KA2683A 3 2:08 77.35 M Water sampling, class 5 1989-09-28 091:00:00 1989-09-28 111:000 TULE Block Scale KA0025F02 6 6:4 72.3 M Water sampling, class 5 1989-09-28 110:500 TULE Block Scale KA0025F02 6 6:4 72.3 R Close pressure value 1989-09-28 110:500 TULE Block Scale KA0025F02 7 6:6 73.3 77.25 R Close pressure value 1989-09-28 111:000 TULE Block Scale KA263A 4 167 190 R Close pressure value 1989-09-28 111:000 TULE Block Scale KA263A 1 102 2 6 7 6:5 7 6:5 R	Open pressure valve	1999-09-28	09:08:00	1999-09-28	09:08:00	TRUE Block Scale	KI0025F02	5	73.3	77.25	R
Water sampling, class 5 1999.09-28 1999.09-28 1105.00 TRUE Block Scale KA2653A 3 206 208 M Water sampling, class 5 1999.09-28 093.00.0 1999.09-28 11150.0 TRUE Block Scale KR0025F02 6 64 72.3 M Water sampling, class 5 1999.09-28 100.00.0 1999.09-28 110.50.0 TRUE Block Scale KR0025F02 5 73.3 77.25 R Chase pressure wake 1999.09-28 111.50.0 1999.09-28 110.00.0 TRUE Block Scale KR0025F02 5 73.3 77.25 R Chase pressure wake 1999.09-28 111.70.0 1998.09-28 111.70.0 TRUE Block Scale KR0025F02 7 6.61 8.3 R Chase pressure wake 1999.09-28 11.77.00 TRUE Block Scale KR0025F02 7 6.51 8.3 R Chase pressure wake KR0025F02 7 6.51 8.3 R Chase pressure wake KR0025F01 7 8.5 9.25 R Chase	Water sampling, class 5	1999-09-28	09:15:00	1999-09-28	11:00:00	TRUE Block Scale	KA2563A	4	187	190	М
Water sampling, class 5 1999-09-28 092.000 1999-09-28 110.000 TRUE Block Scale KN0025F02 5 7.3 77.25 M Water sampling, class 5 1999-09-28 10.00.00 1999-09-28 11.4500 TRUE Block Scale KN0025F02 3 93.35 99.25 M Clase pressure value 1999-09-28 11.05.00 TRUE Block Scale KX2583A 4 197 190 R Clase pressure value 1999-09-28 11.05.00 TRUE Block Scale KX2583A 4 197 190 R Clase pressure value 1999-09-28 11.17.00 TRUE Block Scale KN025F02 7 56.1 63 R Clase pressure value 1999-09-28 11.17.00 TRUE Block Scale KN025F02 3 93.35 99.25 R Vieter sampling, class 4 1999-09-28 113.50.00 TRUE Block Scale KN025F02 3 93.35 99.25 R Open pressure value 1999-09-28 13.00.00 GWCM KA3800F <t< td=""><td>Water sampling, class 5</td><td>1999-09-28</td><td>09:15:00</td><td>1999-09-28</td><td>11:05:00</td><td>TRUE Block Scale</td><td>KA2563A</td><td>3</td><td>206</td><td>208</td><td>М</td></t<>	Water sampling, class 5	1999-09-28	09:15:00	1999-09-28	11:05:00	TRUE Block Scale	KA2563A	3	206	208	М
Water samping, class 5 1999-09-28 10:50:0 11:15:00 TRUE Block Scale Ki0025702 6 64 72.3 M Auder sampling, class 5 1999-09-28 10:00:0 1999-09-28 10:15:00 TRUE Block Scale Ki0025702 5 73.3 77.25 R Close pressure valve 1999-09-28 10:15:00 TRUE Block Scale KA2983A 4 107 109 R Close pressure valve 1999-09-28 11:10:00 TRUE Block Scale KA2983A 4 107 109 R Close pressure valve 1999-09-28 11:17:00 TRUE Block Scale KA2983A 4 93.3 99.25 R Close pressure valve 1999-09-28 11:17:00 TRUE Block Scale KA2950A 1 24.5 R Close pressure valve 1999-09-28 11:17:00 TRUE Block Scale KA2600F 1 24.5 21 R Close pressure valve 1999-09-28 13:0:0:0 1994-09-28 13:0:0:0 GWAM KA2600F 1	Water sampling, class 5	1999-09-28	09:20:00	1999-09-28	10:10:00	TRUE Block Scale	KI0025F02	5	73.3	77.25	M
Water samping, class 5 1999-09-28 10.00.00 1999-09-28 11.45.00 TRUE Block Scale K0025F02 3 99.35 99.25 M Close pressure valve 1999-09-28 111.05.00 1999-09-28 111.05.00 1999-09-28 111.05.00 170.95 73.3 90.276 R Close pressure valve 1999-09-28 111.05.00 170.99 73.5 R 200 R Close pressure valve 1999-09-28 111.70.00 1999-09-28 111.71.00 TRUE Block Scale K0025F02 7 56.1 63 R Close pressure valve 1999-09-28 111.70.00 170.99.09-28 111.70.00 TRUE Block Scale K0025F02 3 93.35 99.25 R Close pressure valve 1999-09-28 113.50.00 1999-09-28 13.00.00 GWCM KA3500F 2 4.5 21 R Open pressure valve 1999-09-28 13.00.00 GWCM KA3500F 2 4.5 21 R Open pressure valve <td< td=""><td>Water sampling, class 5</td><td>1999-09-28</td><td>09:30:00</td><td>1999-09-28</td><td>11:15:00</td><td>TRUE Block Scale</td><td>KI0025F02</td><td>6</td><td>64</td><td>723</td><td>M</td></td<>	Water sampling, class 5	1999-09-28	09:30:00	1999-09-28	11:15:00	TRUE Block Scale	KI0025F02	6	64	723	M
Close pressure valve 1999-00-28 10:15:00 1999-00-28 10:15:00 TRUE Block Scale K025570 5 73.3 77.28 R Close pressure valve 1999-00-28 11:10:00 1999-00-28 11:10:00 TRUE Block Scale KA2553A 3 206 208 R Close pressure valve 1999-00-28 11:17:00 1999-00-28 11:17:00 TRUE Block Scale K0025F02 6 6.4 72.3 R Close pressure valve 1999-00-28 11:17:00 1999-00-28 11:17:00 TRUE Block Scale K0025F02 6 6.4 72.3 R Close pressure valve 1999-00-28 11:200 1999-00-28 13:000 TRUE Block Scale K0025F02 6 6.4 72.3 R Open pressure valve 1999-00-28 13:000 TRUE Block Scale K0025F01 2.45 2.1 R Open pressure valve 1999-00-28 13:12:00 1999-00-28 13:12:00 Microbiology K.20052F01 R Close	Water sampling, class 5	1999-09-28	10:00:00	1999-09-28	11:45:00	TRUE Block Scale	KI0025F02	3	93.35	99.25	M
Close pressure valve 1999-09-28 11:05:00 179/E Block Scale KA2563A 4 197 190 R Close pressure valve 1999-09-28 11:17:00 11998-09-28 11:17:00 TRUE Block Scale KN0025F02 7 56:1 63 R Close pressure valve 1999-09-28 11:17:00 TRUE Block Scale KN0025F02 6 64 72.3 R Close pressure valve 1999-09-28 11:50:00 TRUE Block Scale KN0025F02 3 60.35 89.25 R Open pressure valve 1999-09-28 13:00:00 1999-09-28 13:00:00 TRUE Block Scale KN0025F02 3 60.35 89.25 R Open pressure valve 1999-09-28 13:00:00 1999-09-28 13:00:00 GNCM KA3800F 2 4.5 21 R Open pressure valve 1999-09-28 13:00:00 1999-09-28 13:00:00 Morco KL0002F01 - R Open pressure valve 1999-09-28 13:10:00 Morco	Close pressure valve	1999-09-28	10:15:00	1999-09-28	10:15:00	TRUE Block Scale	KI0025E02	5	73.3	77 25	R
Close pressure valve 1999-09-28 11:10:00 TRUE Block Scale KA265A 3 206 208 R Close pressure valve 1999-09-28 11:17:00 1999-09-28 11:17:00 TRUE Block Scale KI0025F02 6 64 72.3 R Close pressure valve 1999-09-28 11:50:00 1999-09-28 11:50:00 TRUE Block Scale KI0025F02 6 64 72.3 R Close pressure valve 1999-09-28 12:00:00 1996-09-28 13:00:00 TRUE Block Scale KA265AA 1 242 244 M Open pressure valve 1999-09-28 13:00:00 1996-09-28 13:00:00 GWCM KA3600F 1 22 50.1 R Open pressure valve 1999-09-28 13:00:00 1996-09-28 13:00:00 KA3600F 1 22 46 R Microbiology 1999-09-28 13:40:00 1996-09-28 13:40:00 TRUE Block Scale KA266SA 1 22 45 1 M	Close pressure valve	1999-09-28	11:05:00	1999-09-28	11:05:00	TRUE Block Scale	KA2563A	4	187	190	R
Close pressure valve 1999-09-28 1117/00 THUE Block Scale K0025F02 7 68.1 63 R Close pressure valve 1999-09-28 1117/00 1999-09-28 1157/00 TRUE Block Scale K0025F02 3 93.35 99.25 R Water sampling, class 4 1999-09-28 1150/00 1999-09-28 1350/00 TRUE Block Scale K0025F02 3 93.35 99.25 R Open pressure valve 1999-09-28 130.000 1999-09-28 130.000 GWCM KA3800F 2 4.5 21 R Open pressure valve 1999-09-28 130.000 1999-09-28 130.000 GWCM KA3800F 1 22 50.1 R Open pressure valve 1999-09-28 13.000 1999-09-28 13.100 Microb K0052F01 R R Close pressure valve 1999-09-28 13.100 1999-09-28 13.1400 Microb K0052F01 R R Close pressure valve 1999-09-29 06.30.00	Close pressure valve	1999-09-28	11:10:00	1999-09-28	11:10:00	TRUE Block Scale	KA2563A	3	206	208	R
Close pressure valve 1999-09-28 11:17:00 1999-09-28 11:17:00 TRUE Block Scale K0002FPQ2 6 6.4 72:3 R Obes pressure valve 1999-09-28 11:50:00 1999-09-28 11:50:00 TRUE Block Scale KA2553A 1 242 246 M Open pressure valve 1999-09-28 13:00:00 GWCM KA3500F 2 4.5 21 R Open pressure valve 1999-09-28 13:00:00 1999-09-28 13:00:00 GWCM KA3500F 2 4.5 21 R Open pressure valve 1999-09-28 13:00:00 1999-09-28 13:00:00 Microb KJ0052F01 Microb KJ0052F01 R Close pressure valve 1999-09-28 13:14:00 1999-09-28 13:4:00 Microb KJ0052F01 R R Close pressure valve 1999-09-28 08:3:00 1999-09-28 13:4:00 Microb KJ0052F01 KJ0052F01 K K S 5:5:1:5:5:5:5:5:5:5:5:5:5:5:5:5:5:5:5:5	Close pressure valve	1999-09-28	11:17:00	1999-09-28	11:17:00	TRUE Block Scale	KI0025F02	7	56.1	63	R
Close pressure valve 1999-00-28 11:50:00 1990-00-28 11:50:00 TRUE Block Scale K0025F02 3 93:35 99:25 R Open pressure valve 1999-00-28 13:30:00 TRUE Block Scale KA263A 1 242 246 M Open pressure valve 1999-00-28 13:00:00 GWCM KA3600F 2 4.5 21 R Open pressure valve 1999-00-28 13:00:00 GWCM KA3600F 1 22 80:1 R Mcrobiology 1999-00-28 13:12:00 1999-00-28 13:12:00 Microb K10052F01 R R Close pressure valve 1999-00-28 13:4:00 1999-00-28 13:4:00 Microb K10052F01 R R Close pressure valve 1999-00-28 13:4:00 1999-00-29 09:50:00 GWCM KA3800F 1 22 50:1 M Valet sampling, class 4 1999-00-29 09:50:00 GWCM KA3800F 1 22 50:1 M<	Close pressure valve	1999-09-28	11:17:00	1999-09-28	11:17:00	TRUE Block Scale	KI0025E02	6	64	72.3	R
Water sampling, class 4 1999-06-28 12 45.00 1996-06-28 13 35.00 TRUE Block Scale KA3800F 2 4.5 2.1 R Open pressure valve 1999-06-28 13 00:00 1996-06-28 13 00:00 GWCM KA3800F 1 2.2 50.1 R Open pressure valve 1999-06-28 13 00:00 1996-06-28 13 00:00 KA3800F 1 2.2 50.1 R Microbiology 1999-06-28 13 12:00 1999-06-28 13 14:00 Microb KJ0052F01 M M Olises pressure valve 1999-06-28 13 14:00 1999-06-28 13 14:00 TRUE Block Scale KA263A 1 2.42 2.46 R Olises pressure valve 1999-06-28 08 3:0:00 1999-06-28 08 4:0:00 TRUE Block Scale KA263A 1 2.42 2.46 R Water sampling, class 4 1999-06-28 08 3:0:00 1999-06-28 08 0:0:00 GWCM KA3800F 1 2.22 50.1 M	Close pressure valve	1999-09-28	11:50:00	1999-09-28	11:50:00	TRUE Block Scale	KI0025F02	3	93.35	99.25	R
Open pressure valve 1990-09-28 13:00:00 1990-09-28 13:00:00 GWCM KA8800F 2 4.5 21 R Open pressure valve 1999-09-28 13:00:00 1990-09-28 13:00:00 GWCM KA800F 1 22 50.1 R Open pressure valve 1999-09-28 13:00:00 1990-09-28 13:10:00 Microb KJ0052F01 R Close pressure valve 1999-09-28 13:14:00 1990-09-28 13:14:00 Microb KJ0052F01 R Close pressure valve 1999-09-28 05:30:00 1990-09-29 05:40:00 GWCM KA3800F 2 4:5 21 M Water sampling, class 4 1999-09-29 06:30:00 1990-09-29 06:30:00 GWCM KA3800F 1 22 50:1 M Open pressure valve 1999-09-29 06:30:00 1990-09-29 06:00:00 GWCM KA3800F 1 22 50:1 M Open pressure valve 1999-09-29 06:00:00 GWCM </td <td>Water sampling, class 4</td> <td>1999-09-28</td> <td>12:45:00</td> <td>1999-09-28</td> <td>13:35:00</td> <td>TRUE Block Scale</td> <td>KA2563A</td> <td>1</td> <td>242</td> <td>246</td> <td>M</td>	Water sampling, class 4	1999-09-28	12:45:00	1999-09-28	13:35:00	TRUE Block Scale	KA2563A	1	242	246	M
Open pressure valve 1999-09-28 13:00:00 ISO:00 GWCM KA3800F 1 22 50.1 R Open pressure valve 1999-09-28 13:06:00 1999-09-28 13:06:00 Microb KJ0052F01 M Close pressure valve 1999-09-28 13:14:00 1999-09-28 13:14:00 Microb KJ0052F01 M Close pressure valve 1999-09-28 13:14:00 1999-09-28 13:14:00 Microb KJ0052F01 M Water sampling, class 4 1999-09-29 08:30:00 1999-09-29 09:40:00 GWCM KA3600F 1 242 246 R Water sampling, class 4 1999-09-29 09:30:00 1999-09-29 09:40:00 GWCM KA3600F 1 22 50:1 M Open pressure valve 1999-09-29 09:00:00 1999-09-29 09:00:00 GWCM KA3630F 1 32 34 R Open pressure valve 1999-09-29 09:15:00 1999-09-29 09:15:00 1999-09-29 09:15:	Open pressure valve	1999-09-28	13:00:00	1999-09-28	13:00:00	GWCM	KA3600F	2	4.5	21	R
Open pressure valve 1999-09-28 13.08:00 Microbiology KutobsZP01 Image: Constraint of the constraint of	Open pressure valve	1999-09-28	13:00:00	1999-09-28	13:00:00	GWCM	KA3600F	1	22	50.1	R
Microbiology 1999-09-28 13:12:00 1999-09-28 13:12:00 Microb Ku0052F01 Mc Mc Close pressure valve 1999-09-28 13:14:00 1999-09-28 13:14:00 Microb KJ0052F01 R Close pressure valve 1999-09-28 13:4:00 1999-09-28 13:4:00 KJ0052F01 R R Water sampling, class 4 1999-09-29 06:30:00 1999-09-28 09:40:00 GWCM KA3600F 2 4.5 21 M Water sampling, class 4 1999-09-29 09:00:00 1999-09-29 09:00:00 GWCM KA3600F 1 22 50.1 M Open pressure valve 1999-09-29 09:00:00 1999-09-29 09:00:00 GWCM K0025F 2 165.5 169.6 R Open pressure valve 1999-09-29 09:05:00 GWCM KA3305A 1 32 34 R Open pressure valve 1999-09-29 09:15:00 1999-09-29 09:15:00 GWCM KA3373A 2<	Open pressure valve	1999-09-28	13:08:00	1999-09-28	13:08:00	Microb	KJ0052F01				R
Close pressure valve 1999-09-28 13:14:00 Nicrob KJ005F01 M R Close pressure valve 1999-09-28 13:40:00 TRUE Block Scale KA265A 1 242 246 R Water sampling, class 4 1999-09-29 08:30:00 1999-09-29 09:50:00 GWCM KA3600F 1 22 21 M Water sampling, class 4 1999-09-29 09:00:00 GWCM KA3600F 1 22 50.1 M Open pressure valve 1999-09-29 09:00:00 GWCM KJ3365A 1 32 34 R Open pressure valve 1999-09-29 09:00:00 GWCM KJ3365A 1 32 34 R Open pressure valve 1999-09-29 09:10:00 1999-09-29 09:00:00 GWCM KJ3357A 2 4.5 17 R Mater sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:50:00 GWCM KJ3357A 2 4.5 17 M	Microbiology	1999-09-28	13:12:00	1999-09-28	13:12:00	Microb	KJ0052F01			1	M
Close pressure valve 1990-09-28 13:40:00 1990-09-28 13:40:00 TRUE Block Scale KA2563A 1 242 246 R Water sampling, class 4 1999-09-29 08:30:00 1999-09-29 08:30:00 1999-09-29 08:30:00 1999-09-29 08:30:00 GWCM KA3600F 2 4.5 21 M Open pressure valve 1999-09-29 08:30:00 1999-09-29 09:00:00 GWCM Klo025F 2 165.5 166.6 R Open pressure valve 1999-09-29 09:00:00 1999-09-29 09:00:00 GWCM Klo025F 4 87.5 88.5 R Open pressure valve 1999-09-29 09:10:00 1999-09-29 09:10:00 GWCM KA335A 1 32 34 R Open pressure valve 1999-09-29 09:15:00 1999-09-29 10:50:00 GWCM KA357A 2 4.5 17 M Vater sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:35:00 GWC	Close pressure valve	1999-09-28	13:14:00	1999-09-28	13:14:00	Microb	KJ0052F01				R
Water sampling, class 4 1999-09-29 08.30:00 1999-09-29 09.40:00 GWCM KA3800F 2 4.5 21 M Water sampling, class 4 1999-09-29 08.30:00 1999-09-29 09.50:00 GWCM KA3600F 1 22 50.1 M Open pressure valve 1999-09-29 09.00:00 GWCM Kl0025F 2 165.5 189.6 R Open pressure valve 1999-09-29 09.00:00 GWCM Kl0025F 4 87.5 89.5 R Open pressure valve 1999-09-29 09.10:00 1999-09-29 09.10:00 GWCM KA3573A 2 4.5 17 R Water sampling, class 4 1999-09-29 09.15:00 1999-09-29 10.20:00 GWCM KA3573A 2 4.5 17 M Water sampling, class 4 1999-09-29 09.15:00 1999-09-29 09.50:00 GWCM KA3573A 2 4.5 11 R Close pressure valve 1999-09-29 09.45:00 </td <td>Close pressure valve</td> <td>1999-09-28</td> <td>13:40:00</td> <td>1999-09-28</td> <td>13:40:00</td> <td>TRUE Block Scale</td> <td>KA2563A</td> <td>1</td> <td>242</td> <td>246</td> <td>R</td>	Close pressure valve	1999-09-28	13:40:00	1999-09-28	13:40:00	TRUE Block Scale	KA2563A	1	242	246	R
Water sampling, class 4 1999-09-29 08:30:00 1999-09-29 09:50:00 GWCM KA3600F 1 22 50.1 M Open pressure valve 1999-09-29 09:00:00 1999-09-29 09:00:00 GWCM K10025F 2 165.5 169.6 R Open pressure valve 1999-09-29 09:00:00 1999-09-29 09:00:00 GWCM K3385A 1 32 34 R Open pressure valve 1999-09-29 09:10:00 1999-09-29 09:10:00 GWCM KA3385A 1 32 34 R Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:20:00 GWCM KA3385A 1 32 34 M Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:20:00 GWCM KA3365A 2 4.5 17 M Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:35:00 GWCM KA3600F 1 22 4.5 17	Water sampling, class 4	1999-09-29	08:30:00	1999-09-29	09:40:00	GWCM	KA3600F	2	4.5	21	M
Open pressure valve 1999-08-29 09:00:00 1999-09-29 09:00:00 GWCM K10025F 2 165.5 169.6 R Open pressure valve 1999-09-29 09:00:00 1999-09-29 09:00:00 GWCM K10025F 4 87.5 89.5 R Open pressure valve 1999-09-29 09:05:00 1999-09-29 09:05:00 GWCM KA3573A 2 4.5 17 R Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:50:00 GWCM KA3573A 2 4.5 17 M Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:50:00 GWCM KA3573A 2 4.5 17 M Vater sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:50:00 GWCM KA3600F 2 4.5 11 R Close pressure valve 1999-09-29 09:45:00 GWCM KA3600F 1 22 50.1 R Mater sampling, class 4 199	Water sampling, class 4	1999-09-29	08:30:00	1999-09-29	09:50:00	GWCM	KA3600F	1	22	50.1	М
Open pressure valve 1999-09-29 09:00:00 1999-09-29 09:00:00 GWCM K10025F 4 87.5 89.5 R Open pressure valve 1999-09-29 09:05:00 GWCM KA335A 1 32 34 R Open pressure valve 1999-09-29 09:10:00 GWCM KA357A 2 4.5 17 R Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:20:00 GWCM KA3573A 2 4.5 17 M Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:30:00 GWCM KA3573A 2 4.5 17 M Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:30:00 GWCM KA3600F 2 4.5 21 R Close pressure valve 1999-09-29 09:55:00 1999-09-29 13:30:00 GWCM KA3600F 1 22 50.1 R Vater sampling, class 4 1999-09-29 10:00:00	Open pressure valve	1999-09-29	09:00:00	1999-09-29	09:00:00	GWCM	KI0025F	2	165.5	169.6	R
Open pressure valve 1999-09-29 09:05:00 1999-09-29 09:05:00 GWCM KA3385A 1 32 34 R Open pressure valve 1999-09-29 09:10:00 1999-09-29 09:10:00 GWCM KA3385A 2 4.5 17 R Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:20:00 GWCM KA3385A 2 4.5 17 M Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:50:00 GWCM KA335A 2 4.5 17 M Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 09:45:00 GWCM KA3573A 2 4.5 17 M Close pressure valve 1999-09-29 09:45:00 GWCM KA3600F 2 4.5 11 R Close pressure valve 1999-09-29 10:0:00 1999-09-29 09:45:00 GWCM KA3600F 2 4.5 0.1 R Close pressure valve 1999-09-29	Open pressure valve	1999-09-29	09:00:00	1999-09-29	09:00:00	GWCM	KI0025F	4	87.5	89,5	R
Open pressure valve 1999-09-29 09:10:00 1999-09-29 09:10:00 GWCM KA3573A 2 4.5 17 R Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:20:00 GWCM KA3385A 1 32 34 M Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:50:00 GWCM KA3573A 2 4.5 17 M Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:35:00 GWCM KA3600F 2 4.5 17 M Close pressure valve 1999-09-29 09:45:00 GWCM KA3600F 2 4.5 21 R Close pressure valve 1999-09-29 09:55:00 GWCM KA3600F 1 22 50.1 R Water sampling, class 4 1999-09-29 10:00:00 1999-09-29 13:30:00 GWCM KA3600F 1 32 34 M Vater sampling, class 4 1999-09-29 10:00:00	Open pressure valve	1999-09-29	09:05:00	1999-09-29	09:05:00	GWCM	KA3385A	1	32	34	R
Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:20:00 GWCM KA3385A 1 32 34 M Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:50:00 GWCM KA3385A 2 4.5 17 M Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:35:00 GWCM KA3027F 2 165.5 169.6 M Close pressure valve 1999-09-29 09:45:00 1999-09-29 09:45:00 GWCM KA3600F 1 22 50.1 R Water sampling, class 4 1999-09-29 10:0:00 1999-09-29 13:40:00 GWCM KA3600F 1 22 50.1 R Water sampling, class 4 1999-09-29 10:0:00 1999-09-29 13:30:00 GWCM KA3600F 1 32 34 M Vater sampling, class 4 1999-09-29 10:0:00 1999-09-29 13:30:00 GWCM K10025F 4 67.5 89.5 M	Open pressure valve	1999-09-29	09:10:00	1999-09-29	09:10:00	GWCM	KA3573A	2	4,5	17	R
Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:50:00 GWCM KA3573A 2 4.5 17 M Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:35:00 GWCM Kl0025F 2 165.5 169.6 M Close pressure valve 1999-09-29 09:45:00 1999-09-29 09:45:00 GWCM KA3600F 2 4.5 21 R Close pressure valve 1999-09-29 09:55:00 1999-09-29 09:55:00 GWCM KA3600F 1 22 50.1 R Water sampling, class 4 1999-09-29 10:0:00 1999-09-29 13:40:00 GWCM KA3600F 1 18 40.07 M Water sampling, class 4 1999-09-29 10:0:00 1999-09-29 13:30:00 GWCM Kl0025F 4 87.5 89.5 M Percussion drilling record 1999-09-29 10:15:00 1999-09-29 10:15:00 LOT HG0038B01 0 3.6 Cose pressure va	Water sampling, class 4	1999-09-29	09:15:00	1999-09-29	10:20:00	GWCM	KA3385A	1	32	34	М
Water sampling, class 4 1999-09-29 09:15:00 1999-09-29 10:35:00 GWCM Kl0025F 2 165.5 169.6 M Close pressure valve 1999-09-29 09:45:00 1999-09-29 09:45:00 GWCM KA3600F 2 4.5 21 R Close pressure valve 1999-09-29 09:55:00 1999-09-29 09:55:00 GWCM KA3600F 1 22 50.1 R Water sampling, class 4 1999-09-29 10:00:00 1999-09-29 13:40:00 GWCM KA3600F 1 22 50.1 R Water sampling, class 4 1999-09-29 10:00:00 1999-09-29 13:30:00 GWCM KA3573A 1 18 40:07 M Water sampling, class 4 1999-09-29 10:15:00 1999-09-29 11:15:00 LOT HG0038B01 0 3:6 Percussion drilling 1999-09-29 10:15:00 1999-09-29 10:25:00 GWCM KA3385A 1 32 34 R	Water sampling, class 4	1999-09-29	09:15:00	1999-09-29	10:50:00	GWCM	KA3573A	2	4.5	17	M
Close pressure valve 1999-09-29 09:45:00 1999-09-29 09:45:00 GWCM KA3600F 2 4.5 21 R Close pressure valve 1999-09-29 09:55:00 1999-09-29 09:55:00 GWCM KA3600F 1 22 50.1 R Water sampling, class 4 1999-09-29 10:00:00 1999-09-29 13:40:00 GWCM KA3573A 1 18 40.07 M Water sampling, class 4 1999-09-29 10:00:00 1999-09-29 13:30:00 GWCM Klo025F 4 87.5 89.5 M Percussion drilling record 1999-09-29 10:15:00 1999-09-29 11:15:00 LOT HG0038B01 0 3.6 Close pressure valve 1999-09-29 10:25:00 1999-09-29 10:25:00 GWCM KA335A 1 32 34 R Close pressure valve 1999-09-29 10:25:00 1999-09-29 10:40:00 GWCM KA335A 1 32 34 R Close pres	Water sampling, class 4	1999-09-29	09:15:00	1999-09-29	10:35:00	GWCM	KI0025F	2	165.5	169.6	М
Close pressure valve 1999-09-29 09:55:00 1999-09-29 09:55:00 GWCM KA3600F 1 22 50.1 R Water sampling, class 4 1999-09-29 10:00:00 1999-09-29 13:40:00 GWCM KA3573A 1 18 40.07 M Water sampling, class 4 1999-09-29 10:00:00 1999-09-29 13:30:00 GWCM Kl0025F 4 87.5 89.5 M Percussion drilling record 1999-09-29 10:15:00 1999-09-29 11:15:00 LOT HG0038B01 0 3.6 Percussion drilling 1999-09-29 10:25:00 1999-09-29 10:25:00 GWCM KA3385A 1 32 34 R Close pressure valve 1999-09-29 10:25:00 1999-09-29 10:25:00 GWCM KA3385A 1 32 34 R Close pressure valve 1999-09-29 10:25:00 1999-09-29 10:25:00 GWCM KA3373A 2 4.5 19 R Close pre	Close pressure valve	1999-09-29	09:45:00	1999-09-29	09:45:00	GWCM	KA3600F	2	4.5	21	R
Water sampling, class 4 1999-09-29 10:00:00 1999-09-29 13:40:00 GWCM KA3573A 1 18 40.07 M Water sampling, class 4 1999-09-29 10:00:00 1999-09-29 13:30:00 GWCM Klo025F 4 87.5 89.5 M Percussion drilling record 1999-09-29 10:15:00 1999-09-29 11:15:00 LOT HG0038B01 0 3.6 Percussion drilling 1999-09-29 10:15:00 1999-09-29 11:15:00 LOT HG0038B01 0 3.6 Close pressure valve 1999-09-29 10:25:00 1999-09-29 10:25:00 GWCM KA3385A 1 32 34 R Close pressure valve 1999-09-29 10:40:00 GWCM Klo025F 2 165.5 169.6 R Close pressure valve 1999-09-29 10:50:00 1999-09-29 10:50:00 GWCM Klo025F 2 165.5 169.6 R Close pressure valve 1999-09-29 10:50:00 <td< td=""><td>Close pressure valve</td><td>1999-09-29</td><td>09:55:00</td><td>1999-09-29</td><td>09:55:00</td><td>GWCM</td><td>KA3600F</td><td>1</td><td>22</td><td>50.1</td><td>R</td></td<>	Close pressure valve	1999-09-29	09:55:00	1999-09-29	09:55:00	GWCM	KA3600F	1	22	50.1	R
Water sampling, class 4 1999-09-29 10:00:00 1999-09-29 13:30:00 GWCM Kl0025F 4 87.5 89.5 M Percussion drilling record 1999-09-29 10:15:00 1999-09-29 11:15:00 LOT HG0038B01 0 3.6 Percussion drilling 1999-09-29 10:15:00 1999-09-29 11:15:00 LOT HG0038B01 0 3.6 Close pressure valve 1999-09-29 10:25:00 1999-09-29 10:25:00 GWCM KA3385A 1 32 34 R Close pressure valve 1999-09-29 10:25:00 1999-09-29 10:25:00 GWCM KA3385A 1 32 34 R Close pressure valve 1999-09-29 10:25:00 1999-09-29 10:25:00 GWCM KI0025F 2 165.5 169.6 R Close pressure valve 1999-09-29 10:55:00 1999-09-29 10:55:00 GWCM KA3573A 2 4.5 17 R Packer installation 1999-09-29<	Water sampling, class 4	1999-09-29	10:00:00	1999-09-29	13:40:00	GWCM	KA3573A	1	18	40.07	М
Percussion drilling record 1999-09-29 10:15:00 1999-09-29 11:15:00 LOT HG0038B01 0 3.6 Percussion drilling 1999-09-29 10:15:00 1999-09-29 11:15:00 LOT HG0038B01 0 3.6 Close pressure valve 1999-09-29 10:25:00 1999-09-29 10:25:00 GWCM KA3385A 1 32 34 R Close pressure valve 1999-09-29 10:40:00 1999-09-29 10:40:00 GWCM KI0025F 2 165.5 169.6 R Close pressure valve 1999-09-29 10:55:00 1999-09-29 10:55:00 GWCM KA3573A 2 4.5 17 R Packer installation 1999-09-29 12:50:00 1999-09-29 12:50:00 LOT HG0038B01 1 3.6 Close pressure valve 1999-09-29 12:50:00 1999-09-29 12:50:00 LOT HG0038B01 1 3.6 Close pressure valve 1999-09-29 12:57:00 LOT HG0038B01	Water sampling, class 4	1999-09-29	10:00:00	1999-09-29	13:30:00	GWCM	KI0025F	4	87.5	89.5	М
Percussion drilling 1999-09-29 10:15:00 1999-09-29 11:15:00 LOT HG0038B01 0 3.6 Close pressure valve 1999-09-29 10:25:00 1999-09-29 10:25:00 GWCM KA3385A 1 32 34 R Close pressure valve 1999-09-29 10:40:00 1999-09-29 10:40:00 GWCM KI0025F 2 165.5 169.6 R Close pressure valve 1999-09-29 10:55:00 1999-09-29 10:55:00 GWCM KA3573A 2 4.5 17 R Packer installation 1999-09-29 12:50:00 1999-09-29 12:50:00 LOT HG0038B01 1 3.6 Close pressure valve 1999-09-29 12:50:00 1999-09-29 12:50:00 LOT HG0038B01 1 3.6 Close pressure valve 1999-09-29 12:57:00 LOT HG0038B01 1 3.6 1 3.6 1 Open pressure valve 1999-09-29 12:57:00 LOT HG0038B01	Percussion drilling record	1999-09-29	10:15:00	1999-09-29	11:15:00	LOT	HG0038B01	1	0	3.6	
Close pressure valve 1999-09-29 10:25:00 1999-09-29 10:25:00 GWCM KA3385A 1 32 34 R Close pressure valve 1999-09-29 10:40:00 1999-09-29 10:40:00 GWCM KI0025F 2 165.5 169.6 R Close pressure valve 1999-09-29 10:55:00 1999-09-29 10:55:00 GWCM KA377A 2 4.5 17 R Packer installation 1999-09-29 12:50:00 1999-09-29 12:50:00 LOT HG0038B01 1 3.6 Close pressure valve 1999-09-29 12:57:00 1999-09-29 12:57:00 LOT HG0038B01 1 3.6 Close pressure valve 1999-09-29 13:00:00 1999-09-29 13:00:00 GWCM KA3105A 3 23 25 R	Percussion drilling	1999-09-29	10:15:00	1999-09-29	11:15:00	LOT	HG0038B01		0	3.6	
Close pressure valve 1999-09-29 10:40:00 1999-09-29 10:40:00 GWCM K10025F 2 165.5 169.6 R Close pressure valve 1999-09-29 10:55:00 1999-09-29 10:55:00 GWCM KA3573A 2 4.5 17 R Packer installation 1999-09-29 12:50:00 1999-09-29 12:50:00 LOT HG0038B01 1 3.6 Close pressure valve 1999-09-29 12:57:00 199-09-29 12:57:00 LOT HG0038B01 1 3.6 Open pressure valve 1999-09-29 13:00:00 1999-09-29 13:00:00 GWCM KA3105A 3 23 25 R	Close pressure valve	1999-09-29	10:25:00	1999-09-29	10:25:00	GWCM	KA3385A	1	32	34	R
Close pressure valve 1999-09-29 10:55:00 1999-09-29 10:55:00 GWCM KA3573A 2 4.5 17 R Packer installation 1999-09-29 12:50:00 1999-09-29 12:50:00 LOT HG0038B01 1 3.6 Close pressure valve 1999-09-29 12:57:00 LOT HG0038B01 1 3.6 Open pressure valve 1999-09-29 13:00:00 1999-09-29 13:00:00 GWCM KA3105A 3 23 25 R	Close pressure valve	1999-09-29	10:40:00	1999-09-29	10:40:00	GWCM	KI0025F	2	165.5	169.6	R
Packer installation 1999-09-29 12:50:00 1999-09-29 12:50:00 LOT HG0038B01 1 3.6 Close pressure valve 1999-09-29 12:57:00 1999-09-29 12:57:00 LOT HG0038B01 1 3.6 Open pressure valve 1999-09-29 13:00:00 1999-09-29 13:00:00 GWCM KA3105A 3 23 25 R	Close pressure valve	1999-09-29	10:55:00	1999-09-29	10:55:00	GWCM	KA3573A	2	4.5	17	R
Close pressure valve 1999-09-29 12:57:00 1999-09-29 12:57:00 LOT HG0038B01	Packer installation	1999-09-29	12:50:00	1999-09-29	12:50:00	LOT	HG0038B01		1	3.6	
Open pressure valve 1999-09-29 13:00:00 1999-09-29 13:00:00 GWCM KA3105A 3 23 25 R	Close pressure valve	1999-09-29	12:57:00	1999-09-29	12:57:00	LOT	HG0038B01		1	+	
	Open pressure valve	1999-09-29	13:00:00	1999-09-29	13:00:00	GWCM	KA3105A	3	23	25	R

Activity	Start Date	Start Time	Stop Date	Stop Time	Project	Idcode	Section No	Secup (m)	Seclow (m)	Flags
Unclassified water sampling	1999-09-29	13:00:00	1999-09-29	13:08:00	GWCM	KA3105A	3	23	25	M
Close pressure valve	1999-09-29	13:08:00	1999-09-29	13:08:00	GWCM	KA3105A	3	23	25	R
Unclassified water sampling	1999-09-29	13:13:00	1999-09-29	13:18:00	GWCM	KA3010A	2	8.56	15	M
Open pressure valve	1999-09-29	13:13:00	1999-09-29	13:13:00	GWCM	KA3010A	2	8 56	15	R
Close pressure valve	1999-09-29	13:18:00	1999-09-29	13:18:00	GWCM	KA3010A	2	8.56	15	R
Unclassified water sampling	1999-09-29	13:23:00	1999-09-29	13:32:00	GWCM	KA3067A	2	31	34	M
Open pressure valve	1999-09-29	13:23:00	1999-09-29	13:23:00	GWCM	KA3067A	2	31	34	R
Close pressure valve	1999-09-29	13:32:00	1999-09-29	13:32:00	GWCM	KA3067A	2	31	34	R
Close pressure valve	1999-09-29	13:35:00	1999-09-29	13:35:00	GWCM	KI0025F	4	87.5	89.5	R
Unclassified water sampling	1999-09-29	13:42:00	1999-09-29	13:52:00	GWCM	KA3385A	1	32	34	M
Open pressure valve	1999-09-29	13:42:00	1999-09-29	13:42:00	GWCM	KA3385A	1	32	34	
Close pressure valve	1999-09-29	13:45:00	1999-09-29	13:45:00	GWCM	KA3573A	1	18	40.07	R
Close pressure valve	1999-09-29	13:52:00	1999-09-29	13:52:00	GWCM	KA3385A	1	32	34	R
Open pressure valve	1999-09-29	14:38:00	1999-09-29	14:38:00	TRUE Block Scale	HA3289B				
Open pressure valve	1999-09-29	14:38:00	1999-09-29	14:38:00	TRUE Block Scale	HA3289B				
Close pressure valve	1999-09-29	15:15:00	1999-09-29	15:15:00	TRUE Block Scale	HA3289B				
Close pressure valve	1999-09-29	15:15:00	1999-09-29	15:15:00	TRUE Block Scale	HA3289B			<u> </u>	
Borehole coordinate surveying	1999-09-30	09:10:00	1999-09-30	09:20:00	LOT	HG0038B01		0	1	
Borehole direction surveying	1999-09-30	09:10:00	1999-09-30	09:20:00	LOT	HG0038B01		0	1	1
Open pressure valve	1999-09-30	09:10:00	1999-09-30	09:10:00	LOT	HG0038B01				
Close pressure valve	1999-09-30	09:22:00	1999-09-30	09:22:00	LOT	HG0038B01				
Unclassified water sampling	1999-09-30	13:35:00	1999-09-30	13:40:00	GWCM	HA3289B				
Open pressure valve	1999-09-30	13:35:00	1999-09-30	13:35:00	GWCM	HA3289B				
Close pressure valve	1999-09-30	13:42:00	1999-09-30	13:42:00	GWCM	HA3289B				N
Open pressure valve	1999-10-01	08:40:00	1999-10-01	08:40:00	GWCM	KA3110A				N
Water sampling, class 4	1999-10-01	09:00:00	1999-10-01	10:35:00	GWCM	KA3110A				
Close pressure valve	1999-10-01	10:40:00	1999-10-01	10:40:00	GWCM	KA3110A				
Borehole documentation with BOREMAP system	1999-10-01	11:04:00	1999-10-01	11:04:00	Select-2	KI0025E03		2 34	141 25	
Open pressure valve	1999-10-04	09:53:00	1999-10-04	09:53:00	TRUE Block Scale	KI0025E03		2.04	141.20	
Close pressure valve	1999-10-04	11:17:00	1999-10-04	11:17:00	TRUE Block Scale	K10025E03				
Borehole direction surveying	1999-10-04	11:30:00	1999-10-04	12:45:00	PROTOTYPE	DA3545G01		0	8 15	
Borehole coordinate surveying	1999-10-04	11:30:00	1999-10-04	12:45:00	PROTOTYPE	DA3545G01		0	9.15	1
Open pressure valve	1999-10-04	11:40:00	1999-10-04	11:40:00	TRUE Block Scale	KI0025E03			0.15	1
Close pressure valve	1999-10-04	12:37:00	1999-10-04	12:37:00	TRUE Block Scale	KI0025E03				
Open pressure valve	1999-10-04	15:25:00	1999-10-04	15:25:00	TRUE Block Scale	KI0025E03		0	141 72	
Close pressure valve	1999-10-04	21:25:00	1999-10-04	21.25.00	TRUE Block Scale	KI0025E03		0	141.72	
Open pressure valve	1999-10-05	09:12:00	1999-10-05	09:12:00	TRUE Block Scale	KI0025E03		0	141.72	
Close pressure valve	1999-10-05	11:40:00	1999-10-05	11:40:00	TRUE Block Scale	KI0025E03		0	141.72	
Borehole direction surveying	1999-10-05	14:10:00	1999-10-05	17:40:00	PROTOTYPE	DA3551G01	+	0	9.45	
Borehole coordinate surveying	1999-10-05	14:10:00	1999-10-05	17:40:00	PROTOTYPE	DA3551G01		0	0.10	
Constant Flow Test	1999-10-05	15:40:00	1999-10-05	16:39:00	TRUE Block Scale	KI0025E03		42.5	0.13	
Borehole documentation with BOREMAP system	1999-10-05	15:56:00	1999-10-05	15:56:00	Select-2	KA3065402		42.3	44.5	E
Constant Flow Test	1999-10-05	16:39:00	1999-10-05	18:18:00	TRUE Block Scale	KI0025E03		0.79	23.00	
Constant Flow Test	1999-10-05	18:52:00	1999-10-06	07:54:00	TRUE Block Scale	KI0025F03		42.5	44.0 EA	
Constant Flow Test	1999-10-06	08:49:00	1999-10-06	10:55:00	TRUE Block Scale	KI0025F03		52	54	
Open pressure valve	1999-10-06	08:50:00	1999-10-06	08:50:00		HG0038B01		51.5	53.5	
Packer removal	1999-10-06	08:58:00	1999-10-06	08:58:00	LOT	HG0038B01				
Open pressure valve	1999-10-06	09:00:00	1999-10-06	09:00:00	GWCM	SA3045A		l		
Packer installation	1999-10-06	09:10:00	1999-10-06	09:10:00		HG0038R01		1	20	- K
Packer expand	1999-10-06	09:10:00	1999-10-06	09:10:00		HG0038R01		1	3.0	- M
Close pressure valve	1999-10-06	09:22:00	1999-10-06	09:22:00		HG0038801		·	3.0	<u></u>
				00.22.00		TOUDDBU!				

Activity	Start Date	Start Time	Stop Date	Stop Time	Project	Idcode	Section No.	Secure (m)	Cooley (m)	Ele an
Water sampling, class 4	1999-10-06	09:30:00	1999-10-06	10:15:00	GWCM	SA3045A	Section No	Secup (m)	Seciow (m)	Flags
Close pressure valve	1999-10-06	10:18:00	1999-10-06	10:18:00	GWCM	SA3045A				M
Constant Flow Test	1999-10-06	11:19:00	1999-10-06	13:55:00	TRUE Block Scale	KI0025E03		54	50	<u>к</u>
Constant Flow Test	1999-10-06	14:16:00	1999-10-06	17:40:00	TRUE Block Scale	KI0025E03		54	50	
Open pressure valve	1999-10-06	19:05:00	1999-10-06	19:05:00	TRUE Block Scale	KI0025E03			30	
Close pressure valve	1999-10-06	22:15:00	1999-10-06	22:15:00	TRUE Block Scale	KI0025E03		0	141.72	[
Open pressure valve	1999-10-07	08:07:00	1999-10-07	08:07:00	TRUE Block Scale	KI0025E03		<u> </u>	141.72	
Close pressure valve	1999-10-07	10:17:00	1999-10-07	10:17:00	TRUE Block Scale	KI0025E03		0	141.72	
Constant Flow Test	1999-10-07	10:44:00	1999-10-07	12:50:00	TRUE Block Scale	KI0025E03		0	141.72	
Constant Flow Test	1999-10-07	13:14:00	1999-10-07	15:00:00	TRUE Block Scale	KI0025E03		60	62	
Constant Flow Test	1999-10-07	15:34:00	1999-10-07	16:10:00	TRUE Block Scale	KI0025E03		70	64	
Constant Flow Test	1999-10-07	16:11:00	1999-10-07	17:30:00	TRUE Block Scale	K10025F03		72	/4	E
Constant Flow Test	1999-10-07	18:05:00	1999-10-08	07:31:00	TRUE Block Scale	KI0025F03		12	/4	
Constant Flow Test	1999-10-08	07:46:00	1999-10-08	10:06:00	TRUE Block Scale	KI0025F03		85	87	
Constant Flow Test	1999-10-08	10:25:00	1999-10-08	12:12:00	TRUE Block Scale	KI0025F03		8/	89	
Constant Flow Test	1999-10-11	13:15:00	1999-10-11	15:03:00	TRUE Block Scale	KI0025F03		90.5	92.5	
Constant Flow Test	1999-10-11	15:37:00	1999-10-11	10:02:00	TRUE Block Scale	KI0025F03		98	100	
Open pressure valve	1999-10-12	08:01:00	1999-10-12	09:01:00	TRUE Block Scale	KI0025F03		124	126	
Close pressure valve	1999-10-12	10:16:00	1999-10-12	10:16:00	TRUE Block Scale	KI0025F03		0	141.72	
Open pressure valve	1999-10-13	11:30:00	1999-10-12	11:20:00	I RUE BIOCK Scale	KI0025F03		0	141.72	
Microbiology	1999-10-13	11:35:00	1999-10-13	11:37:00	Microb	KJ0052F01				R
Close pressure valve	1999-10-13	11:37:00	1999-10-13	11:37:00	MICIOD	KJ0052F01				M
Open pressure valve	1999-10-14	13:26:00	1999-10-13	12:26:00		KJ0052F01				R
Packer installation	1999-10-14	13:26:00	1999-10-21	19:00:00	TRUE Block Scale	KI0025F03				
Open pressure valve	1999-10-14	13:50:00	1999-10-21	12:50:00	TRUE Block Scale	KI0025F03		0	141.72	M
Packer installation	1999-10-14	14:10:00	1999-10-14	14:10:00	Chemiab	KJ0044F01				
Packer expand	1999-10-14	15:00:00	1999-10-14	14.10.00	Chemiab	KJ0044F01		1	17.26	M
Flow measurement at weirs	1999-10-15	11:24:00	1999-10-14	11:04:00	Chemiab	KJ0044F01		1	17.26	R
Flow measurement at weirs	1999-10-15	13:51:00	1999-10-15	11.24.00		MA3179G	1	2994	3179	
Flow measurement at weirs	1999-10-15	13:52:00	1999-10-15	13:51:00		MA3426G	1	3426	3600	
Flow measurement at weirs	1999-10-15	13:53:00	1000 10 15	13.52.00		MA3411G	11	3179	3411	
Packer release	1999-10-15	14:00:00	1000 10 15	13:53:00		MA3384G	1	340	450	
Packer removal	1999-10-15	14:10:00	1999-10-10	14:00:00	Chemiab	KJ0044F01				
Close pressure valve	1999-10-15	14:30:00	1000 10 15	14:10:00	Chemiab	KJ0044F01				
Open valve of circulation line	1999-10-21	13:09:00	1999-10-15	14:30:00	Chemiab	KJ0044F01				
Open valve of flow line	1999-10-21	13:08:00	1000 10 21	13:08:00	TRUE Block Scale	KA2563A	4	187	190	
Close valve of circulation line	1999-10-21	13:22:00	1000 10 21	13:08:00	TRUE Block Scale	KA2563A	4	187	190	
Close valve of flow line	1999-10-21	13:22:00	1999-10-21	13:22:00	TRUE Block Scale	KA2563A	4	187	190	
Open valve of circulation line	1999-10-21	13:27:00	1999-10-21	13:22:00	TRUE Block Scale	KA2563A	4	187	190	
Open valve of flow line	1999-10-21	13:27:00	1999-10-21	13:27:00	TRUE Block Scale	KA2563A	1	242	246	
Close valve of flow line	1000-10-21	13:27:00	1999-10-21	13:27:00	TRUE Block Scale	KA2563A	1	242	246	
Close valve of circulation line	1999-10-21	13:29:00	1999-10-21	13:29:00	TRUE Block Scale	KA2563A	1	242	246	
Open valve of flow line	1000 10 21	13:29.00	1999-10-21	13:29:00	TRUE Block Scale	KA2563A	1	242	246	
Open valve of circulation line	1999-10-21	13:31:00	1999-10-21	13:31:00	TRUE Block Scale	KA2563A	3	206	208	
Close valve of circulation line	1999-10-21	13:31:00	1999-10-21	13:31:00	TRUE Block Scale	KA2563A	3	206	208	
Close valve of flow line	1000 10 21	13.32.00	1999-10-21	13:32:00	TRUE Block Scale	KA2563A	3	206	208	
Close pressure valve	1999-10-21	13:32:00	1999-10-21	13:32:00	TRUE Block Scale	KA2563A	3	206	208	
Packer expand	1999-10-21	18:10:00	1999-10-21	18:10:00	TRUE Block Scale	KI0025F03				
Open valve of flow line	1999-10-21	18:10:00	1999-10-21	18:10:00	TRUE Block Scale	KI0025F03		0	141.72	R
Open valve of circulation line	1999-10-22	10:52:00	1999-10-22	10:52:00	TRUE Block Scale	KI0025F03	3	89	92.5	
Close valve of flow line	1999-10-22	10:52:00	1999-10-22	10:52:00	TRUE Block Scale	KI0025F03	3	89	92.5	
	1999-10-22	10:58:00	1999-10-22	10:58:00	TRUE Block Scale	KI0025F03	3	89	92.5	

Activity	Start Date	Start Time	Stop Date	Stop Time	Project	Idcode	Section No	Secup (m)	Seclow (m)	Flags
Close valve of circulation line	1999-10-22	10:58:00	1999-10-22	10:58:00	TRUE Block Scale	KI0025F03	3	89	92.5	
Open valve of flow line	1999-10-22	11:00:00	1999-10-22	11:00:00	TRUE Block Scale	KI0025F03	4	85	88	
Open valve of circulation line	1999-10-22	11:00:00	1999-10-22	11:00:00	TRUE Block Scale	KI0025F03	4	85	88	
Close valve of flow line	1999-10-22	11:06:00	1999-10-22	11:06:00	TRUE Block Scale	KI0025F03	4	85	88	
Close valve of circulation line	1999-10-22	11:06:00	1999-10-22	11:06:00	TRUE Block Scale	KI0025F03	4	85	88	
Open valve of circulation line	1999-10-22	11:08:00	1999-10-22	11:08:00	TRUE Block Scale	KI0025F03	5	75	84	
Open valve of flow line	1999-10-22	11:08:00	1999-10-22	11:08:00	TRUE Block Scale	KI0025F03	5	75	84	
Close valve of flow line	1999-10-22	11:15:00	1999-10-22	11:15:00	TRUE Block Scale	KI0025F03	5	75	84	
Close valve of circulation line	1999-10-22	11:15:00	1999-10-22	11:15:00	TRUE Block Scale	KI0025F03	5	75	84	
Open valve of flow line	1999-10-22	11:16:00	1999-10-22	11:16:00	TRUE Block Scale	KI0025F03	6	66.5	74	
Open valve of circulation line	1999-10-22	11:16:00	1999-10-22	11:16:00	TRUE Block Scale	KI0025F03	6	66.5	74	
Close valve of circulation line	1999-10-22	11:22:00	1999-10-22	11:22:00	TRUE Block Scale	KI0025F03	6	66.5	74	
Close valve of flow line	1999-10-22	11:22:00	1999-10-22	11:22:00	TRUE Block Scale	KI0025F03	6	66.5	74	
Open valve of circulation line	1999-10-22	11:27:00	1999-10-22	11:27:00	TRUE Block Scale	KI0025F03	7	59.5	65.5	
Open valve of flow line	1999-10-22	11:27:00	1999-10-22	11:27:00	TRUE Block Scale	KI0025F03	7	59.5	65.5	
Close valve of flow line	1999-10-22	11:33:00	1999-10-22	11:33:00	TRUE Block Scale	KI0025F03	7	59.5	65.5	
Close valve of circulation line	1999-10-22	11:33:00	1999-10-22	11:33:00	TRUE Block Scale	KI0025F03	7	59.5	65.5	
Open valve of flow line	1999-10-22	13:17:00	1999-10-22	13:17:00	TRUE Block Scale	KI0025F03	5	75	84	
Open valve of circulation line	1999-10-22	13:17:00	1999-10-22	13:17:00	TRUE Block Scale	KI0025F03	5	75	84	
Close valve of flow line	1999-10-22	14:00:00	1999-10-22	14:00:00	TRUE Block Scale	KI0025F03	5	75	84	
Close valve of circulation line	1999-10-22	14:00:00	1999-10-22	14:00:00	TRUE Block Scale	KI0025F03	5	75	84	
Open valve of flow line	1999-10-25	09:20:00	1999-10-25	09:20:00	TRUE Block Scale	KI0025F02	5	73.3	77.25	
Open valve of circulation line	1999-10-25	09:20:00	1999-10-25	09:20:00	TRUE Block Scale	KI0025F02	5	73.3	77.25	
Dilution test	1999-10-25	09:20:00	1999-10-26	15:05:00	TRUE Block Scale	KI0023B	7	43.45	69.95	
Open valve of circulation line	1999-10-25	09:38:00	1999-10-25	09:38:00	TRUE Block Scale	KI0025F02	6	64	72.3	
Open valve of flow line	1999-10-25	09:38:00	1999-10-25	09:38:00	TRUE Block Scale	KI0025F02	6	64	72.3	
Dilution test	1999-10-25	09:45:00	1999-10-26	15:38:00	TRUE Block Scale	KI0025F02	3	93.35	99.25	
Dilution test	1999-10-25	09:50:00	1999-10-26	14:55:00	TRUE Block Scale	KI0023B	4	84.75	86.2	
Close valve of flow line	1999-10-25	13:36:00	1999-10-25	13:36:00	TRUE Block Scale	KI0025F02	5	73.3	77.25	
Close valve of circulation line	1999-10-25	13:36:00	1999-10-25	13:36:00	TRUE Block Scale	KI0025F02	5	73.3	77.25	
Dilution test	1999-10-25	13:43:00	1999-10-26	13:41:00	TRUE Block Scale	KI0025F02	5	73.3	77.25	
Close valve of circulation line	1999-10-25	13:44:00	1999-10-25	13:44:00	TRUE Block Scale	KI0025F02	6	64	72.3	
Close valve of flow line	1999-10-25	13:44:00	1999-10-25	13:44:00	TRUE Block Scale	KI0025F02	6	64	72.3	
Dilution test	1999-10-25	13:50:00	1999-10-26	12:57:00	TRUE Block Scale	KI0025F02	6	64	72.3	· · · · · · · · · · · · · · · · · · ·
Dilution test	1999-10-25	18:30:00	1999-10-26	17:54:00	TRUE Block Scale	KA2563A	3	206	208	
Dilution test	1999-10-26	13:01:00	1999-10-28	11:35:00	TRUE Block Scale	KI0025F02	7	56.1	63	
Dilution test	1999-10-26	14:14:00	1999-10-28	10:17:00	TRUE Block Scale	KI0023B	6	70.95	71.95	
Dilution test	1999-10-26	15:25:00	1999-10-28	09:41:00	TRUE Block Scale	KI0025F03	3	89	92.5	
Dilution test	1999-10-26	15:57:00	1999-10-28	11:19:00	TRUE Block Scale	KI0025F03	4	85	88	
Dilution test	1999-10-26	16:40:00	1999-10-28	10:36:00	TRUE Block Scale	KI0025F03	6	66.5	74	
Dilution test	1999-10-26	17:57:00	1999-10-28	15:22:00	TRUE Block Scale	KA2563A	4	187	190	
Start pumping	1999-10-27	11:05:00	1999-10-30	10:00:00	TRUE Block Scale	KI0025F03	5	75	84	С
Dilution test	1999-10-28	09:46:00	1999-10-29	07:42:00	TRUE Block Scale	KI0023B	7	43.45	69.95	
Dilution test	1999-10-28	10:25:00	1999-10-29	07:40:00	TRUE Block Scale	KI0025F02	6	64	72.3	
Dilution test	1999-10-28	10:52:00	1999-10-29	07:42:00	TRUE Block Scale	KI0023B	4	84.75	86.2	
Dilution test	1999-10-28	11:26:00	1999-10-29	07:41:00	TRUE Block Scale	KI0025F02	3	93.35	99.25	
Dilution test	1999-10-28	11:46:00	1999-10-29	07:40:00	TRUE Block Scale	K10025F02	5	73.3	77.25	
Dilution test	1999-10-28	15:24:00	1999-10-29	11:33:00	TRUE Block Scale	KA2563A	3	206	208	
Dilution test	1999-10-29	07:20:00	1999-10-31	10:20:00	TRUE Block Scale	KI0023B	5	72.95	83.75	
Dilution test	1999-10-29	08:19:00	1999-10-31	10:20:00	TRUE Block Scale	KI0025F02	7	56.1	63	
Dilution test	1999-10-29	08:21:00	1999-10-31	10:20:00	TRUE Block Scale	KI0025F	4	87.5	89.5	

Activity	Start Date	Start Time	Stop Date	Stop Time	Project	Idcode	Section No.	Secup (m)	Seclow (m)	Flags
Dilution test	1999-10-29	08:23:00	1999-10-31	10:20:00	TRUE Block Scale	KI0025E02	8	51.7	55 1	i iago
Dilution test	1999-10-29	08:56:00	1999-10-31	10:20:00	TRUE Block Scale	KI0023B	2	111 25	1127	
Dilution test	1999-10-29	11:40:00	1999-10-31	09.20.00	TRUE Block Scale	KA2563A	1	242	246	
Dilution test	1999-10-31	09:54:00	1999-11-01	11:52:00	TRUE Block Scale	KI0025E02	5	73.3	77.25	
Dilution test	1999-10-31	10:04:00	1999-11-01	09:55:00	TRUE Block Scale	KI0025E02	6	64	72.2	
Dilution test	1999-10-31	10:40:00	1999-11-01	12:38:00	TRUE Block Scale	KA2563A	3	206	208	
Dilution test	1999-10-31	10:40:00	1999-11-01	11:10:00	TRUE Block Scale	KI0023B	<u> </u>	84.75	200	
Dilution test	1999-10-31	10:40:00	1999-11-01	09:01:00	TRUE Block Scale	KI0023B	7	43.45	60.05	
Dilution test	1999-10-31	10:40:00	1999-11-01	10:36:00	TRUE Block Scale	KI0025E02	2	43.45	09.95	
Dilution test	1999-11-01	09:15:00	1999-11-03	09.16.00	TRUE Block Scale	KI0023B	6	70.05	71.05	
Dilution test	1999-11-01	10:05:00	1999-11-03	09:20:00	TRUE Block Scale	KI0025E03	3	10.95	71.55	
Dilution test	1999-11-01	10:55:00	1999-11-03	09:20:00	TRUE Block Scale	KI0025F03	5	75	92.5	
Dilution test	1999-11-01	11:39:00	1999-11-03	09:27:00	TRUE Block Scale	KI0025F03		75	74	
Dilution test	1999-11-01	11:58:00	1999-11-03	09:12:00	TRUE Block Scale	KI0025F03	7	60.5 56 1	62	
Dilution test	1999-11-01	12:50:00	1999-11-03	08:31:00	TRUE Block Scale	KA2563A	1	197	100	
Start pumping	1999-11-02	11:00:00	1999-11-05	11:00:00	TRUE Block Scale	KI0025503	4	10/	190	
Packer break down	1999-11-03	07:37:00	1999-11-04	10:37:00	HMS	KA3600E	4	00	68	<u> </u>
Dilution test	1999-11-03	08:34:00	1999-11-04	08:26:00	TRUE Block Scole	KA2562A	1	22	50.1	<u> </u>
Dilution test	1999-11-03	10:08:00	1999-11-04	09:57:00	TRUE Block Scale	KI0022D	3	200	208	
Dilution test	1999-11-03	10:10:00	1999-11-04	09:47:00	TRUE Block Scale	KIOO25E02	1	43.45	69.95	
Dilution test	1999-11-03	10:12:00	1999-11-04	09:36:00	TRUE Block Scale	KI0025F02	0	02.05	72.3	
Dilution test	1999-11-03	10:15:00	1999-11-04	09:30:00	TRUE Block Scale	KIDO23FUZ	3	93.35	99.25	
Dilution test	1999-11-03	10:20:00	1999-11-04	09:31:00	TRUE Block Scale	KI0025E02	4	84.75	86.2	
Dilution test	1999-11-04	08:33:00	1999-11-04	09:42.00	TRUE Block Scale		5	73.3	11.25	
Dilution test	1999-11-04	10:00:00	1999-11-08	09:10:00	TRUE Block Scale	KI0025502	7	242	246	
Dilution test	1999-11-04	10:02:00	1999-11-08	09:39:00	TRUE Block Scale	K10025F05	1	59.5	65.5	
Dilution test	1999-11-04	10:15:00	1999-11-08	09:39:00	TRUE Block Scale	KI0025F02	4	07.5	69.5	
Dilution test	1999-11-04	10.19.00	1999-11-08	09:37:00	TRUE Block Scale	KI0023F02	3	30.5	50,7	
Dilution test	1999-11-04	10:25:00	1999-11-08	09:36:00	TRUE Block Scale	K10023B	2 5	72.05	112.7	
Packer release	1999-11-04	22:00:00	1999-11-04	22:00:00	HMS	KG0048A01	5	72.95	63.75	
Stop pumping	1999-11-05	10:00:00	1999-11-05	10:00:00	TRUE Block Scale	KI0025E02		05		<u> </u>
Dilution test	1999-11-08	10:55:00	1999-11-09	08:25:00	TRUE Block Scale	KI0025F03	4	00 50 5	00	
Dilution test	1999-11-08	11:10:00	1999-11-09	08:40:00	TRUE Block Scale	KI0023P03		59.5 70.05	00.0	
Dilution test	1999-11-08	11:15:00	1999-11-09	09:00:00	TRUE Block Scale	KI0023B	3	72.95	03.75	
Dilution test	1999-11-08	11:55:00	1999-11-09	09:15:00	TRUE Block Scale	KIOO23D	4	04.75	80.2	
Dilution test	1999-11-08	13:35:00	1999-11-09	10:05:00	TRUE Block Scale	KA2562A	4	84.75	86.2	
Dilution test	1999-11-08	13:50:00	1999-11-09	09:20:00	TRUE Block Scale	K10023B		200	208	
Dilution test	1999-11-09	11:26:00	1999-11-11	08:20:00	TRUE Block Scale	KI00255	7	43.45	69.95	
Dilution test	1999-11-09	11:50:00	1999-11-11	08:13:00	TRUE Block Scale	KI0025F02	1	50.1	63	
Dilution test	1999-11-09	12:00:00	1999-11-11	00:10:00	TRUE Block Scale	KI0025F03	5	89	92.5	
Dilution test	1999-11-09	13:25:00	1999-11-11	08:45:00	TRUE Block Scale	KI0025F03	5	75	84	
Dilution test	1999-11-09	13:54:00	1999-11-11	08:30:00	TRUE Block Scale	KI0025F03	4	85	88	
Dilution test	1999-11-09	14:36:00	1999-11-11	00:00:00	TRUE Block Scale	KI0025F02	3	93.35	99.25	
Start pumping	1999-11-10	10:35:00	1999-11-10	10:35:00	TRUE Block Scale	KI0025F03	6	66.5	74	
Dilution test	1999-11-11	09:30:00	1999-11-12	0.00.00	TRUE Block Scale	KI0025E02	5	/3.3	11.25	C
Dilution test	1999-11-11	09:35:00	1999-11-12	00.40.00	TRUE Block Scale	KI0020FU3		59.5	65.5	
Dilution test	1999-11-11	09:40:00	1999-11-12	08:50:00	TRUE DIOCK Scale	K10023B	5	/2.95	83.75	
Dilution test	1999-11-11	16:15:00	1999-11-12	00.00.00	TRUE Block Scale		4	8/.5	89.5	
Dilution test	1999-11-11	16:38:00	1999-11-12	09.00.00	TRUE Block Scale	KI0023B	4	84./5	86.2	
Dilution test	1999-11-11	18:00:00	1999-11-12	10:30:00	TRUE Block Scale	KA0562A		43.45	69.95	
Packer release	1999-11-12	02:00:00	1999-11-12	02:00:00	HMS	KC0021404	3	206	208	
		02.00.00	1000-11-12	02.00.00	GINIT	KGUUZ (AUT				C

Activity	Start Date	Start Time	Stop Date	Ston Time	Project	Idcode	Section No.	Social (m)	Soolour (m)	Flore
Stop pumping	1999-11-12	09:00:00	1999-11-12	09.00.00	TRUE Block Scale	KI0025E02	Section NO		Seciow (m)	Flags
Packer expand	1999-11-15	11:13:00	1999-11-15	11:13:00	HMS	KG0021401	- J	13.5	11.25	
Packer expand	1999-11-15	11:13:00	1999-11-15	11:13:00	HMS	KG0048401	-			
Tunnel mapping with TMS system	1999-11-15	12:00:00	1999-11-16	12:10:00	PROTOTYPE	TACA		2545	2507	
Dilution test	1999-11-17	09:00:00	1999-11-19	09:20:00	TRUE Block Scale	10025502		3545	3087	
Dilution test	1999-11-17	09:00:00	1999-11-19	09:20:00	TRUE Block Scale	KI0025F03	3	89	92.5	
Dilution test	1999-11-17	09:00:00	1999-11-19	09:20:00	TRUE Block Scale	KI0025F05	4	00 00 F	88	
Dilution test	1999-11-17	09:00:00	1999-11-19	09:20:00	TRUE Block Scale	KI0025F03	6	00.0	74	
Dilution test	1999-11-17	09.00.00	1999-11-19	09:20:00	TRUE Block Scale	KI0025F03		75	84	
Start pumping	1999-11-18	10:00:00	1999-11-18	10:00:00	TRUE Block Scale	K10023P03	/	59.5	65.5	
Flow measurement at weirs	1999-11-18	15:30:00	1999-11-18	15:30:00	TRUE DIOCK Scale	MA2170C	0	70.95	/1.95	<u> </u>
Flow measurement at weirs	1999-11-18	15:46:00	1999-11-18	15:46:00		MA3284C		2994	3179	
Flow measurement at weirs	1999-11-18	15:47:00	1999-11-18	15:47:00		MA3364G	1	340	450	
Flow measurement at weirs	1999-11-18	15:48:00	1999-11-18	15:49:00		MA3411G	1	31/9	3411	
Radially converging	1999-11-23	12:20:00	1999 11 30	13.46.00	TRUE Disals Casta	MA3426G	1	3426	3600	
Radially converging	1999-11-23	13:15:00	1999-11-30	11:09:00	TRUE Block Scale	KI0025F03	6	66.5	74	
Radially converging	1999-11-23	13:47:00	1999 11 30	10:57:00	TRUE Block Scale	KI0025F03	/	59.5	65.5	
Open valve of flow line	1999-11-29	14:14:00	1000 11 20	10.57,00	TRUE Block Scale	K10025F03	5	75	84	
Open valve of circulation line	1999-11-29	14:14:00	1000 11 20	14:14:00	TRUE Block Scale	KX I I 1	2	12.5	14	
Close valve of flow line	1000-11-20	14:23:00	1000 11 20	14:14:00	TRUE Block Scale	KXIII	2	12.5	14	
Close valve of circulation line	1999-11-29	14:23:00	1999-11-29	14:23:00	TRUE Block Scale	KX111	2	12.5	14	
Unclassified water sampling	1999-11-29	00:50:00	1999-11-29	14:23:00	TRUE Block Scale	KXTT1	2	12.5	14	
Open pressure valve	1000 11 20	09.50.00	1999-11-30	10:40:00		KA3010A	2	8.56	15	M
Close pressure valve	1000-11-30	10:40:00	1999-11-30	09:50:00		KA3010A	2	8.56	15	R
Unclassified water sampling	1000 11 20	10:40.00	1999-11-30	10:40:00		KA3010A	2	8.56	15	R
Open pressure valve	1999-11-30	10.50.00	1999-11-30	11:40:00		KA3067A	2	31	34	М
Stop pumping	1999-11-30	10.50.00	1999-11-30	10:50:00	-	KA3067A	2	31	34	R
Close pressure valve	1000 11 20	11:40:00	1999-11-30	11:30:00	TRUE Block Scale	KI0023B	6	70.95	71.95	
Unclassified water sampling	1000 11 20	11.40.00	1999-11-30	11:40:00		KA3067A	2	31	34	R
Open pressure valve	1999-11-30	13:40:00	1999-11-30	14:35:00		KA3110A	1	20	29	M
Close pressure valve	1000 11 20	13.40.00	1999-11-30	13:40:00		KA3110A	1	20	29	R
Unclassified water sampling	1999-11-30	14.35.00	1999-11-30	14:35:00		KA3110A	1	20	29	R
Open pressure valve	1000 11 20	14.40.00	1999-11-30	15:45:00		KA3105A	3	23	25	M
Close pressure valve	1999-11-30	14.40.00	1999-11-30	14:40:00		KA3105A	3	23	25	R
Unclassified water sampling	1999-11-30	10.45.00	1999-11-30	15:45:00		KA3105A	3	23	25	R
Open pressure valve	1999-12-03	09.05.00	1999-12-03	11:50:00		KA3385A	1	32	34	M
Unclassified water sampling	1999-12-03	09:05:00	1999-12-03	09:35:00		KA3385A	11	32	34	R
Close pressure valve	1999-12-03	09:30:00	1999-12-03	10:35:00		KA3510A	2	114	121	M
Close pressure valve	1999-12-03	10:35:00	1999-12-03	10:35:00		KA3510A	2	114	121	R
Unclassified water sampling	1999-12-03	11:50:00	1999-12-03	11:50:00		KA3385A	1	32	34	R
Open pressure valve	1999-12-03	14:30:00	1999-12-03	15:00:00		HA3289B				М
Close pressure valve	1999-12-03	14:30:00	1999-12-03	14:30:00		HA3289B				R
Interference test	1999-12-03	17:27:00	1999-12-03	17:27:00		HA3289B				R
Start numping	1999-12-06	17:30:00	1999-12-06	18:02:00	TRUE Block Scale	KI0025F03	7	59.5	65.5	
Stop pumping	1999-12-06	17:30:00	1999-12-06	17:30:00	TRUE Block Scale	KI0025F03	7	59.5	65.5	
Stop pumping	1999-12-06	18:02:00	1999-12-06	18:02:00	TRUE Block Scale	KI0025F03	7	59.5	65.5	
Interference test	1999-12-06	19:05:00	1999-12-06	19:05:00	TRUE Block Scale	KI0025F03	4	85	88	
Ston pumping	1999-12-06	19:05:00	1999-12-06	19:37:00	TRUE Block Scale	KI0025F03	4	85	88	
Interference test	1999-12-06	19:37:00	1999-12-06	19:37:00	TRUE Block Scale	KI0025F03	4	85	88	
Start numping	1999-12-07	08:45:00	1999-12-07	09:17:00	TRUE Block Scale	KI0025F03	3	89	92.5	
Stan pumping	1999-12-07	08:45:00	1999-12-07	08:45:00	TRUE Block Scale	KI0025F03	3	89	92.5	
Stop bamping	1999-12-07	09:17:00	1999-12-07	09:17:00	TRUE Block Scale	KI0025F03	3	89	92.5	

Activity	Start Date	Start Time	Stop Date	Stop Time	Project	Idcode	Section No	Secup (m)	Seclow (m)	Flags
Interference test	1999-12-07	10:20:00	1999-12-07	10:52:00	TRUE Block Scale	KI0025F03	6	66.5	74	
Start pumping	1999-12-07	10:20:00	1999-12-07	10:20:00	TRUE Block Scale	KI0025F03	6	66.5	74	
Stop pumping	1999-12-07	10:52:00	1999-12-07	10:52:00	TRUE Block Scale	K10025F03	6	66.5	74	
Interference test	1999-12-07	12:00:00	1999-12-07	12:32:00	TRUE Block Scale	KI0025F03	5	75	84	
Start pumping	1999-12-07	12:00:00	1999-12-07	12:00:00	TRUE Block Scale	KI0025F03	5	75	84	
Stop pumping	1999-12-07	12:32:00	1999-12-07	12:32:00	TRUE Block Scale	KI0025F03	5	75	84	
Start pumping	1999-12-07	16:00:00	1999-12-07	16:00:00	TRUE Block Scale	KI0025F03	5	75	84	
Radially converging	1999-12-08	12:10:00	1999-12-08	12:10:00	TRUE Block Scale	KI0025F03	3	89	92.5	
Radially converging	1999-12-08	13:25:00	1999-12-08	13:25:00	TRUE Block Scale	KI0025F03	5	75	84	
Radially converging	1999-12-08	14:15:00	1999-12-08	14:15:00	TRUE Block Scale	KI0025F03	6	66.5	74	
Open valve of flow line	1999-12-09	13:27:00	1999-12-09	13:27:00	TRUE Block Scale	КХТТ3	2	12.42	14.42	
Open valve of circulation line	1999-12-09	13:27:00	1999-12-09	13:27:00	TRUE Block Scale	KXTT3	2	12.42	14.42	
Close valve of flow line	1999-12-09	14:47:00	1999-12-09	14:47:00	TRUE Block Scale	КХТТЗ	2	12.42	14.42	
Close valve of circulation line	1999-12-09	14:47:00	1999-12-09	14:47:00	TRUE Block Scale	КХТТ3	2	12.42	14.42	
Unclassified water sampling	1999-12-13	14:16:00	1999-12-13	14:22:00	Microb	KJ0052F01				М
Open pressure valve	1999-12-13	14:16:00	1999-12-13	14:16:00	Microb	KJ0052F01				R
Close pressure valve	1999-12-13	14:22:00	1999-12-13	14:22:00	Microb	KJ0052F01				R
Open pressure valve	1999-12-13	14:46:00	1999-12-13	14:46:00	TRUE Block Scale	KXTT5		0	25.8	R
Unclassified water sampling	1999-12-13	14:46:00	1999-12-13	14:56:00	TRUE Block Scale	KXTT5		0	25.8	MC
Close pressure valve	1999-12-13	14:56:00	1999-12-13	14:56:00	TRUE Block Scale	KXTT5		0	25.8	R
Packer installation	1999-12-14	09:08:00	1999-12-14	11:20:00	TRUE Block Scale	KXTT5		0	25.8	M
Open pressure valve	1999-12-14	09:08:00	1999-12-14	09:08:00	TRUE Block Scale	KXTT5		0	25.8	
Packer expand	1999-12-14	11:23:00	1999-12-14	18:03:00	TRUE Block Scale	KXTT5		0	25.8	R
Packer release	1999-12-14	13:43:00	1999-12-14	13:43:00	TRUE Block Scale	KXTT4				
Packer removal	1999-12-14	13:45:00	1999-12-14	15:30:00	TRUE Block Scale	KXTT4		0	49.31	
Packer installation	1999-12-14	15:40:00	1999-12-14	18:00:00	TRUE Block Scale	KXTT4		0	49.31	М
Packer release	1999-12-14	17:04:00	1999-12-14	17:04:00	TRUE Block Scale	KXTT1				С
Packer release	1999-12-14	17:04:00	1999-12-14	17:04:00	TRUE Block Scale	KXTT2				C
Packer release	1999-12-14	17:07:00	1999-12-14	17:07:00	TRUE Block Scale	KA3005A		1		С
Packer release	1999-12-14	17:07:00	1999-12-14	17:07:00	TRUE Block Scale	KA3005A				С
Packer release	1999-12-14	17:10:00	1999-12-14	17:10:00	TRUE Block Scale	KXTT3		1		C
Packer expand	1999-12-14	18:01:00	1999-12-14	18:01:00	TRUE Block Scale	KA3005A	· · · · · · · · · · · · · · · · · · ·			
Packer expand	1999-12-14	18:01:00	1999-12-14	18:01:00	TRUE Block Scale	KA3005A				
Packer expand	1999-12-14	18:16:00	1999-12-14	18:16:00	TRUE Block Scale	KXTT2				
Packer expand	1999-12-14	18:31:00	1999-12-14	18:31:00	TRUE Block Scale	КХТТ3				
Packer expand	1999-12-14	18:32:00	1999-12-14	18:32:00	TRUE Block Scale	KXTT1				
Packer expand	1999-12-14	18:34:00	1999-12-14	18:34:00	TRUE Block Scale	KXTT4		0	49.31	R
Dilution test	1999-12-20	13:57:00	1999-12-20	13:57:00	TRUE Block Scale	KXTT5	2	9.61	9.81	
Stop pumping	1999-12-20	14:04:00	1999-12-20	14:04:00	TRUE Block Scale	KXTT5	2	9.61	9.81	

Activity log of activities in tunnels I, J and G during the period 1999-06-01 – 1999-12-28

SICADA/Diary - Activity Log, 990601-991223, Objects in I,J and G tunnels

Activity	Start Date	Stop Date	Project	Idcode	Section No.	Secur (m)	Seclow (m)	Flage
Borehole documentation with BOREMAP system	990603 17:19	990603 17:19	PROTOTYPE	KG0021A01	Decercia No		48 82	C
Borehole documentation with BOREMAP system	990604 09:12	990604 09:12	PROTOTYPE	KG0048A01		0.00	51 69	c
Open pressure valve	990615 12:42	990615 12:42	PROTOTYPE	KG0021A01		0.00	48 80	C
Packer installation	990615 12:42	990615 19:30	PROTOTYPE	KG0021A01		0.00	48 80	м
Packer expand	990616 10:40	990616 11:02	PROTOTYPE	KG0021A01		0.00	40.00	D
Open pressure valve	990617 09:00	990617 09:00	PROTOTYPE	KG0048A01		49 00	51 69	K
Interference test	990617 09:00	990617 10:25	PROTOTYPE	KG0048A01		49.00	54.69	
Close pressure valve	990617 10:25	990617 10:25	PROTOTYPE	KG0048A01		49.00	54.09	
BIPS-logging in borehole	990703 13:00	990703 18:00	Chemlab-2	K.T0044F01		2 00	17 00	C
Open pressure valve	990703 13:20	990703 13:20	Chemlab-2	KT0044F01		2.00	17.00	c
Open pressure valve	990703 15:40	990703 15:40	Chemlab-2	KJ0052F02				c
BIPS-logging in borehole	990703 16:10	990703 18:00	Chemlab-2	KJ0052F02		1 50	21 16	c
Close pressure valve	990703 17:00	990703 17:00	Chemlab-2	KJ0052F02		1.50	21.10	L
Close pressure valve	990703 17:10	990703 17:10	Chemlab-2	KJ0044F01				
Open pressure valve	990704 08:10	990704 08:10	Chemlab-2	KJ0052F03				C
Open pressure valve	990704 08:22	990704 08:22	Chemlab-2	KJ0052F01				c
BIPS-logging in borehole	990704 09:01	990704 11:00	Chemlab-2	KJ0052F03		1 07	10 14	c
BIPS-logging in borehole	990704 09:45	990704 10:30	Chemlab-2	KJ0052F01		2 20	49 80	c
Close pressure valve	990704 10:55	990704 10:55	Chemlab-2	KJ0052F03		5.20	49.00	C
Close pressure valve	990704 11:00	990704 11:00	Chemlab-2	KJ0052F01				
BIPS-logging in borehole	990705 10:45	990705 11:10	PROTOTYPE	HG0008A01		1 80	24 00	
Core drilling record	990805 08:30	990813 10:33	TRUE	KI0025F03		0.00	141 72	
Core drilling	990805 08:30	990813 10:33	TRUE	KI0025F03		0.00	141 72	
Flush water recording	990807 08:40	990813 08:05	TRUE	KI0025F03		0.00	141 72	
Borehole coordinate surveying	990813 17:30	990813 17:30	TRUE	KI0025F03		0.00	6.00	т
Borehole direction surveying	990813 17:30	990813 17:30	TRUE	KI0025F03		0.00	6 00	Ť
Maxibor measurement	990813 18:00	990813 18:00	TRUE	KI0025F03		0.00	141.00	т с
Open pressure valve	990820 09:00	990820 09:00	PROTOTYPE	KG0021A01	3	25.00	34.00	± 0
Interference test	990820 09:00	990821 09:55	PROTOTYPE	KG0021A01	3	25.00	34.00	
Close pressure valve	990820 15:00	990820 15:00	PROTOTYPE	KG0021A01	3	25.00	34.00	
Interference test	990821 10:00	990822 08:55	PROTOTYPE	KG0021A01	1	42.50	48.80	
Open pressure valve	990821 10:10	990821 10:10	PROTOTYPE	KG0021A01	1	42.50	48.80	
Close pressure valve	990821 16:02	990821 16:02	PROTOTYPE	KG0021A01	1	42.50	48.80	
Open pressure valve	990927 09:00	990927 09:00	GWCM	KI0023B	6	70.95	71.95	R
Open pressure valve	990927 09:00	990927 09:00	GWCM	KI0023B	4	84.75	86.20	R
Water sampling, class 4	990927 09:10	990927 10:50	GWCM	KI0023B	6	70.95	71.95	м
Water sampling, class 4	990927 09:15	990927 10:40	GWCM	KI0023B	4	84.75	86.20	м
Close pressure valve	990927 10:00	990927 10:00	GWCM	KI0023B	6	70.95	71.95	R

Close pressure valve	990927 10:45	990927 10:4	5 GWCM	KI0023B	4	84.75	86.20	R
Open pressure valve	990928 13:08	990928 13:0	8 Microb	KJ0052F01				R
Microbiology	990928 13:12	990928 13:1	Microb	KJ0052F01				М
Close pressure valve	990928 13:14	990928 13:1	Microb	KJ0052F01				R
Open pressure valve	990929 09:00	990929 09:0) GWCM	KI0025F	2	165.50	169.60	R
Open pressure valve	990929 09:00	990929 09:0) GWCM	KI0025F	4	87.50	89.50	R
Water sampling, class 4	990929 09:15	990929 10:3	GWCM	KI0025F	2	165.50	169.60	М
Water sampling, class 4	990929 10:00	990929 13:3) GWCM	KI0025F	4	87.50	89.50	М
Percussion drilling record	990929 10:15	990929 11:1	LOT	HG0038B01		0.00	3.60	
Percussion drilling	990929 10:15	990929 11:1	LOT	HG0038B01		0.00	3.60	
Close pressure valve	990929 10:40	990929 10:4) GWCM	KI0025F	2	165.50	169.60	R
Packer installation	990929 12:50	990929 12:50) LOT	HG0038B01		1.00	3.60	
Close pressure valve	990929 12:57	990929 12:5	LOT	HG0038B01				
Close pressure valve	990929 13:35	990929 13:3	GWCM	KI0025F	4	87.50	89.50	R
Borehole coordinate surveying	990930 09:10	990930 09:20	LOT	HG0038B01		0.00	1.00	I
Borehole direction surveying	990930 09:10	990930 09:20	LOT	HG0038B01		0.00	1.00	I
Open pressure valve	990930 09:10	990930 09:10	LOT	HG0038B01				
Close pressure valve	990930 09:22	990930 09:22	LOT	HG0038B01				
Borehole documentation with BOREMAP system	991001 11:04	991001 11:04	Select-2	KI0025F03		2.34	141.25	
Open pressure valve	991006 08:50	991006 08:50	LOT	HG0038B01				
Packer removal	991006 08:58	991006 08:58	LOT	HG0038B01				
Packer installation	991006 09:10	991006 09:10	LOT	HG0038B01		1.00	3.60	м
Packer expand	991006 09:10	991006 09:10	LOT	HG0038B01		1.00	3.60	R
Close pressure valve	991006 09:22	991006 09:22	LOT	HG0038B01				
Open pressure valve	991013 11:30	991013 11:30	Microb	KJ0052F01				R
Microbiology	991013 11:35	991013 11:3	Microb	KJ0052F01				м
Close pressure valve	991013 11:37	991013 11:3	Microb	KJ0052F01				R
Open pressure valve	991014 13:50	991014 13:50	Chemlab	KJ0044F01				
Packer installation	991014 14:10	991014 14:10	Chemlab	KJ0044F01		1.00	17.26	м
Packer expand	991014 15:00	991014 15:00	Chemlab	KJ0044F01		1.00	17.26	R
Packer release	991015 14:00	991015 14:00	Chemlab	KJ0044F01				
Packer removal	991015 14:10	991015 14:10	Chemlab	KJ0044F01				
Close pressure valve	991015 14:30	991015 14:30	Chemlab	KJ0044F01				
Packer release	991104 22:00	991104 22:00	HMS	KG0048A01				С
Packer release	991112 02:00	991112 02:00	HMS	KG0021A01				С
Packer expand	991115 11:13	991115 11:13	HMS	KG0021A01				
Packer expand	991115 11:13	991115 11:13	HMS	KG0048A01				
Unclassified water sampling	991213 14:16	991213 14:22	Microb	KJ0052F01				М
Open pressure valve	991213 14:16	991213 14:16	Microb	KJ0052F01				R
Close pressure valve	991213 14:22	991213 14:22	Microb	KJ0052F01				R

Number of rows: 78. 1999-12-23 14:03:04

Activity log of True Block Scale during the period 1999-06-01 – 1999-12-28

SICADA/Diary - Activity Log, Activities in True Block Scale project

Activity							
Radially converging	Start Date	Stop Date	Project	Idcode	Section No	Secup (m)	Seclow (m) Flags
Flushing water	990602 09:57		TRUE Block Scale	KI0023B	6	70.95	71.95
Open pressure value	990610 16:20	990610 16:24	TRUE Block Scale	KA3005A	2	46.78	50.03
TVO - Detailed difference flow menouverset	990614 10:30	990614 10:30	TRUE Block Scale	KA3065A02		0.00	67.00
Radially converging	990614 18:30	990615 15:30	TRUE Block Scale	KA3065A02		0.00	67.00
Close value of girgulation line	990615 10:30	990615 10:30	TRUE Block Scale	KA2563A	1	242.00	246.00
Stop pumping	990615 10:30	990615 10:30	TRUE Block Scale	KI0023B	6	70.95	71.95
Close walve of flow line	990615 10:30	990615 10:30	TRUE Block Scale	КІОО23В	6	70.95	71.95
Padially conversion	990615 10:30	990615 10:30	TRUE Block Scale	KI0023B	6	70.95	71.95
Radially converging	990615 10:30	990615 10:30	TRUE Block Scale	KI0025F02	6	64.00	72.30
Radially converging	990615 10:30	990615 10:30	TRUE Block Scale	KI0025F02	3	93.35	99.25
Flushing water	990615 10:33	990615 11:03	TRUE Block Scale	KI0025F02	3	93.35	99.25
Flushing water	990615 10:42	990615 13:26	TRUE Block Scale	KI0025F02	6	64.00	72.30
Close valve of circulation line	990615 11:08	990615 11:08	TRUE Block Scale	KI0025F02	3	93.35	99.25
Close valve of flow line	990615 11:08	990615 11:08	TRUE Block Scale	KI0025F02	3	93.35	99.25
Close valve of flow line	990615 11:10	990615 11:10	TRUE Block Scale	KI0023B	7	43.45	69.95
Dilution test	990615 11:10	990615 11:10	TRUE Block Scale	KI0023B	7	43.45	69.95
Close valve of circulation line	990615 11:10	990615 11:10	TRUE Block Scale	KI0023B	7	43.45	69.95
Close valve of flow line	990615 13:26	990615 13:26	TRUE Block Scale	KI0025F02	6	64.00	72.30
Close valve of circulation line	990615 13:26	990615 13:26	TRUE Block Scale	KI0025F02	6	64.00	72.30
Flushing water	990615 14:03	990615 16:03	TRUE Block Scale	KA2563A	1	242.00	246.00
Open valve of flow line	990615 14:06	990615 14:06	TRUE Block Scale	KA2563A	4	187.00	190.00
Open valve of circulation line	990615 14:06	990615 14:06	TRUE Block Scale	KA2563A	4	187.00	190.00
Flushing water	990615 14:07	990615 15:43	TRUE Block Scale	KA2563A	4	187.00	190.00
Close valve of flow line	990615 15:44	990615 15:44	TRUE Block Scale	KA2563A	4	187.00	190.00
Close valve of circulation line	990615 15:44	990615 15:44	TRUE Block Scale	KA2563A	4	187.00	190.00
Close valve of flow line	990615 16:04	990615 16:04	TRUE Block Scale	KA2563A	1	242.00	246 00
Close valve of circulation line	990615 16:04	990615 16:04	TRUE Block Scale	KA2563A	1	242.00	246 00
Close pressure valve	990616 08:15	990616 08:25	TRUE Block Scale	KA3065A02	-	0.00	67 00
TVO - Detailed difference flow measurements	990616 10:50	990616 22:30	TRUE Block Scale	KXTT5		0.00	25 00
Open pressure valve	990617 07:35	990617 07:35	TRUE Block Scale	KA2865A01		0 00	26.00
TVO - Detailed difference flow measurements	990617 08:45	990617 16:15	TRUE Block Scale	KA2865A01		1 00	26.00
Close pressure valve	990617 16:25	990617 16:25	TRUE Block Scale	KA2865A01		0.00	26.00
Open pressure valve	990728 14:58	990728 14:58	TRUE Block Scale	KT0025F	4	86 00	88 00
Instant pressure and flow measurements	990728 14:58	990728 15:36	TRUE Block Scale	KT0025F	*	86 00	88.00
Close pressure valve	990728 15:36	990728 15:36	TRUE Block Scale	KT0025F	٨	86.00	88.00
Packer release	990728 17:45	990729 11:07	TRUE Block Scale	KT0025F	3	00.00	00.00
Open pressure valve	990729 08:43	990729 08:43	TRUE Block Scale	KT0025F			
Close pressure valve	990729 09:22	990729 09:22	TRUE Block Scale	KI0025F			

Packer expand	990729	11:07	990729	11:07	TRUE	Block	Scale	KT0025F				
Instant pressure and flow measurements	990729	12:42	990729	12:42	TRUE	Block	Scale	KT0025F	4	87 50	89 50	
Open pressure valve	990729	12:42	990729	12:42	TRUE	Block	Scale	KT0025F	4	87 50	89 50	
Close pressure valve	990729	13:20	990729	13:20	TRUE	Block	Scale	KT0025F	4	87 50	89 50	
Instant pressure and flow measurements	990730	08:46	990730	08:53	TRUE	Block	Scale	KT0025F	т С	90 50	164 50	
Open pressure valve	990730	08:46	990730	08:46	TRUE	Block	Scale	KT0025F	3	90.50	164.50	
Close pressure valve	990730	08:53	990730	08:53	TRUE	Block	Scale	KT0025F	3	90.50	164 50	
Instant pressure and flow measurements	990730	08:57	990730	09:03	TRUE	Block	Scale	KT0025F	5	42 50	86 50	
Open pressure valve	990730	08:57	990730	08:57	TRUE	Block	Scale	KT0025F	5	42.50	86 50	
Close pressure valve	990730	09:03	990730	09:03	TRUE	Block	Scale	KT0025F	5	42.50	86 50	
Open pressure valve	990921	10:08	990921	10:08	TRUE	Block	Scale	KT0025F03	5	10.50	00.00	
TVO - Difference flow measurements	990921	10:20	990922	07:00	TRUE	Block	Scale	KT0025F03		15 00	143 80	
BIPS-logging in borehole	990921	12:05	990921	15:30	TRUE	Block	Scale	KT0025F03		2 70	141 47	C
TVO - Detailed difference flow measurements	990922	08:00	990922	09:00	TRUE	Block	Scale	KT0025F03		0 00	15 00	C
UHT - Mobilization	990927	08:00	991004	21:30	TRUE	Block	Scale	KT0025F03		0.00	10.00	
Open pressure valve	990927	09:00	990927	09:00	TRUE	Block	Scale	KT0023B	7	13 15	69 95	D
Water sampling, class 4	990927	09:15	990927	10:45	TRUE	Block	Scale	KT0023B	7	43.45	69 95	M
Close pressure valve	990927	10:50	990927	10:50	TRUE	Block	Scale	KT0023B	, 7	43.45	69 95	D
Open pressure valve	990927	13:50	990927	13:50	TRUE	Block	Scale	KT0025E02	7	43.4J 56 10	63 00	R D
UHT - Calibration	990927	18:00	990930	10:00	TRUE	Block	Scale	KT0025F03	,	50.10	03.00	к
Open pressure valve	990928	09:00	990928	09.00	TRUE	Block	Scale	K10025F05	٨	197 00	100 00	п
Open pressure valve	990928	09:00	990928	09.00	TRUE	Block	Scale	KA2563A	1	242 00	246.00	R D
Open pressure valve	990928	09:00	990928	09.00	TRUE	Block	Scale	KA2563A	3	242.00	240.00	л П
Water sampling, class 4	990928	09:00	990928	11.15	TRUE	Block	Scale	KT0025F02	7	56 10	208.00	R
Open pressure valve	990928	09:05	990928	09:05	TRUE	Block	Scale	KT0025F02	3	03 35	03.00	M D
Open pressure valve	990928	09:08	990928	09:08	TRUE	Block	Scale	KT0025F02	5	73 30	99.45 77 25	л п
Water sampling, class 5	990928	09:15	990928	11.00	TRUE	Block	Scale	K10023102	1	197 00	190 00	N N
Water sampling, class 5	990928	09:15	990928	11.05	TRUE	Block	Scale	KA2563A	3	206 00	190.00	M
Water sampling, class 5	990928	09:20	990928	10.10	TRUE	Block	Scale	KT0025E02	5	200.00	208.00	M
Water sampling, class 5	990928	09:30	990928	11.15	TRUE	Block	Scale	KT0025F02	5	73.30	77.20	M
Water sampling, class 5	990928	10:00	990928	11.15	TRUE	Block	Scale	KT0025F02	3	04.00	72.30	M
Close pressure valve	990928	10.15	990928	10.15	TRUE	Block	Scale	KI0025F02	5	33.35 72 20	99.40 77 05	M
Close pressure valve	990928	11.05	990928	11.05	TRUE	Block	ggalo	K1002JF02	1	197 00	100 00	R
Close pressure valve	990928	11.10	990928	11.10		Block	Scale	VA2505A	14 う	187.00	190.00	R
Close pressure valve	990928	11.17	990928	11.17	TRUE TRUE	Plock	Scale	KA2303A	3 7	206.00	208.00	R
Close pressure valve	990928	11.17	990920	11.17	TRUE	DIOCK	Calle	KI0025F02		56.10	63.00	R
Close pressure valve	990928	11.50	990928	11.50	TRUE	BLOCK	Scale	K10025F02	0	64.00	72.30	R
Water sampling, class 4	990928	12.45	000020	12.25	TRUE	DIOCK	Ceale	KIUUZSFUZ	3	93.35	99.25	R
Close pressure valve	990928	13.40	990928	13.40	TRUE	DIOCK	Scale	KAZOOJA KAZOOJA	1	242.00	246.00	M
Open pressure valve	990920	1/.30	000020	14.20	TRUE	Dlock	Scale	KAZOOJA	Т	242.00	246.00	R
Close pressure valve	990929	15.15	990929	15.15	TRUE .	BLOCK	Scale	HA3289B				
Open pressure valve	991004	70'E2	001004	TO:TO	TRUE	DIOCK	Scale	HAJ2898				
Close pressure valve	991004	11.17	001004	11.17	TRUE	DIOCK	scale	K10025F03				
Open pressure value	991004 001004	11.40	JJ1004	11.40	TRUE	PTOCK	Scale	K10025F03				
ober breppere verve	フフエレリ 4	11:40	331004	11:4U	TRUE	RTOCK	Scale	KI0025F03				

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Open pressure valve 991012 08:01 991012 08:01 TRUE Block Scale KI0025F03 0.00 141.72
Close pressure value 991012 10:16 991012 10:16 TRUE Block Scale K10025F03 0.00 141.72
Open pressure valve 991014 13:26 991014 13:26 TRUE Block Scale KI0025F03
Packer installation 991014 13:26 991021 18:00 TRUE Block Scale KI0025F03 0.00 141.72 M
Open valve of circulation line 991021 13:08 991021 13:08 TRUE Block Scale Ka25633 4 107 00 191.72 M
Open valve of flow line 991021 13:08 991021 13:08 TRUE Block Scale KA25632 4 197.00 190.00
Close value of circulation line $991021 13.22 991021 13.22$ TRUE Block Scale $ka2563a$ 4 197.00 190.00
Close valve of flow line $991021 13 \cdot 22 991021 13 \cdot 22$ TRUE Block Scale $Ka2563a$ 4 197.00 190.00
Open valve of circulation line 991021 13.27 JPUR Block Scale KA2562A 1 245.00 190.00
Open value of flow line $991021 13.27$ FIGH Block Scale KA2562A 1 242.00 246.00
Close valve of flow line $991021 13.29 991021 13.29$ TRUE Block Scale RA2562A 1 242.00 246.00
Close value of circulation line $991021 13.29 991021 13.29$ more block scale $RA2563A = 242.00 - 246.00$
Open value of flow line $991021 13.31 991021 13.31 TRUE Block Scale RA2563A = 242.00 - 240.00$
Open value of circulation line $991021 13.31 991021 13.31$ TRUE Block Scale $RA2563A = 200.00 = 200.00$
Close value of circulation line $991021 13.32 991021 13.32$ TPUE block scale $RZ363R 3 200.00 200.00$
Close value of flow line $991021 13.32 991021 13.32$ TRUE Block Scale RA2563A 3 200.00 200.00
Close pressure valve 991021 18.10 991021 18.10 TRUE Block Scale KA2565A 5 206.00 208.00
Packer expand 991021 18:10 991021 18:10 TRUE Block Scale K10025F05
Open valve of flow line $991022 \ 10.52 \ 991022 \ 10.52 \ TRUE Block Scale KI0025F03 2 0.00 141.72 R$
Open valve of circulation line 991022 10:52 991022 10:52 TRUE Block Scale KI0025F03 3 89.00 92.50

Close valve of flow line	991022 10	1.58	991022	10.59	שווסש	Plack	Carle	WT0005-000	2	~~ ~~	
Close valve of circulation line	991022 10	.58	991022	10.50	TRUE	BLOCK	Scale	K10025F03	3	89.00	92.50
Open valve of flow line	991022 11	• 0 0	991022	11.00	TRUE	DIOCK	Scale	K10025F03	3	89.00	92.50
Open valve of circulation line	991022 11	• 0 0	991022	11.00	TRUE	Block	Scale	K10025F03	4	85.00	88.00
Close valve of flow line	991022 11	• 06	991022	11.00	TRUE	BLOCK	Scale	K10025F03	4	85.00	88.00
Close valve of circulation line	991022 11	.06	991022	11.06	TRUE	BLOCK	Scale	K10025F03	4	85.00	88.00
Open valve of circulation line	991022 11	• 0.8	991022	11.00	TRUE	Block	Scale	K10025F03	4	85.00	88.00
Open valve of flow line	991022 11	.00 .08	001022	11.00	TRUE	BLOCK	Scale	K10025F03	5	75.00	84.00
Close valve of flow line	991022 11	.15	991022	11.15	TRUE	Block	Scale	K10025F03	5	75.00	84.00
Close valve of circulation line	991022 11	·15	991022	11.15	TRUE	Dieck	Scale	K10025F03	5	75.00	84.00
Open valve of flow line	991022 11	•16	991022	11.16		BLOCK	Scale	K10025F03	5	75.00	84.00
Open valve of circulation line	991022 11	.16	991022	11.16	TRUE	DIOCK	Scale	K10025F03	6	66.50	74.00
Close valve of circulation line	991022 11		001022	11.00	TRUE	Dlock	Scale	K10025F03	6	66.50	74.00
Close valve of flow line	991022 11	.22	001022	11.22	TRUE	BLOCK	Scale	K10025F03	6	66.50	74.00
Open valve of circulation line	991022 11	.22	991022 991022	11.27	TRUE	BTOCK	Scale	K10025F03	6	66.50	74.00
Open valve of flow line	991022 11	.27	001022	11.27	TRUE	BLOCK	Scale	KI0025F03	7	59.50	65.50
Close valve of flow line	991022 11	.27	991022 001000	11.22	TRUE	BIOCK	Scale	K10025F03	7	59.50	65.50
Close valve of circulation line	991022 11		391022 001000	11.33	TRUE	BLOCK	Scale	KI0025F03	7	59.50	65.50
Open valve of flow line	991022 11:	.17 (391022 001000	12.17	TRUE	BLOCK	Scale	KI0025F03	7	59.50	65.50
Open valve of circulation line	991022 13:	.17 0	991022	12.17	TRUE	Block	Scale	KI0025F03	5	75.00	84.00
Close valve of flow line	991022 13:		201022	14.00	TRUE	BIOCK	Scale	KI0025F03	5	75.00	84.00
Close valve of circulation line	991022 14:	.00 :	201022	14:00	TRUE	BIOCK	Scale	KI0025F03	5	75.00	84.00
Dilution test	991025 09.	. 20 3	01022	15.05	TRUE	BTOCK	Scale	KI0025F03	5	75.00	84.00
Open valve of flow line	991025 09:	.20 2	01025	12:02	TRUE	BTOCK	Scale	KI0023B	7	43.45	69.95
Open valve of circulation line	991025 09:	·20 2	01025	09:40	TRUE	BIOCK	Scale	KI0025F02	5	73.30	77.25
Open valve of circulation line	991025 09.	.20 2	01025	09:20	TRUE	BLOCK	Scale	K10025F02	5	73.30	77.25
Open valve of flow line	991025 09:	. 20 2	01025	09:38	TRUE	BLOCK	Scale	KI0025F02	6	64.00	72.30
Dilution test	991025 09:		01025	15.20	TRUE	BIOCK	Scale	KI0025F02	6	64.00	72.30
Dilution test	991025 09:	. 4J 3	01020	14.55	TRUE	BTOCK	Scale	KI0025F02	3	93.35	99.25
Close valve of flow line	991025 09:	.36 0	01025	12.26	TRUE	BIOCK	Scale	KI0023B	4	84.75	86.20
Close valve of circulation line	991025 13:	. 30 3	01025	12 20	TRUE	BLOCK	Scale	KI0025F02	5	73.30	77.25
Dilution test	991025 13:	. 10 5	01025	12.41	TRUE	BIOCK	Scale	KI0025F02	5	73.30	77.25
Close valve of circulation line	991025 13:	:43 5 .44 c	91026	13:41	TRUE	Block	Scale	KI0025F02	5	73.30	77.25
Close valve of flow line	991025 13:	:44 3 .44 C	01025	13:44	TRUE	BTOCK	Scale	KI0025F02	6	64.00	72.30
Dilution test	991025 13:	. 44 S	01025	10 57	TRUE	Block	Scale	KI0025F02	6	64.00	72.30
Dilution test	991025 13:	20 2	91026	17 5/	TRUE	Block	Scale	KI0025F02	6	64.00	72.30
Dilution test	991025 10:	.01 0	91026	11 25	TRUE	Block	Scale	KA2563A	3	206.00	208.00
Dilution test	991026 13:	14 0	91028	11:35	TRUE	Block	Scale	KI0025F02	7	56.10	63.00
Dilution test	991026 14:	.14 9	91028	10:17	TRUE	Block	Scale	KI0023B	6	70.95	71.95
Dilution test	991020 15:	:45 9	91028	09:41	TRUE	Block	Scale	KI0025F03	3	89.00	92.50
Dilution test	991026 15:	:5/ 9	91028	11:19	TRUE	Block	Scale	KI0025F03	4	85.00	88.00
Dilution test	991020 10:	140 9 57 0	91028	10:36	TRUE	Block	Scale	KI0025F03	6	66.50	74.00
Start pumping	991020 1/:	5/ 9 05 0	01028	10 00	TRUE	Block	Scale	KA2563A	4	187.00	190.00
Dilution test	55102/ 11:	105 9	01020	10:00	TRUE	Block	Scale	KI0025F03	5	75.00	84.00
	JJT078 0A:	:40 9	aT058	07:42	TRUE	BTOCK	Scale	KI0023B	7	43.45	69.95

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Dilution test	991028 10:25	991029 07:40	TRUE Block	Scale H	KI0025F02	6	64.00	72.30
Dilution test	991028 10:52	991029 07:42	TRUE Block	Scale H	KI0023B	4	84.75	86.20
Dilution test	991028 11:26	991029 07:41	TRUE Block	Scale H	KI0025F02	3	93.35	99.25
Dilution test	991028 11:46	991029 07:40	TRUE Block	Scale H	KI0025F02	5	73.30	77.25
Dilution test	991028 15:24	991029 11:33	TRUE Block	Scale H	KA2563A	3	206.00	208.00
Dilution test	991029 07:20	991031 10:20	TRUE Block	Scale H	KI0023B	5	72.95	83.75
Dilution test	991029 08:19	991031 10:20	TRUE Block	Scale H	KI0025F02	7	56.10	63.00
Dilution test	991029 08:21	991031 10:20	TRUE Block	Scale H	KI0025F	4	87.50	89.50
Dilution test	991029 08:23	991031 10:20	TRUE Block	Scale H	KI0025F02	8	51.70	55.10
Dilution test	991029 08:56	991031 10:20	TRUE Block	Scale H	КІ0023В	2	111.25	112.70
Dilution test	991029 11:40	991031 09:20	TRUE Block	Scale H	KA2563A	1	242.00	246.00
Dilution test	991031 09:54	991101 11:52	TRUE Block	Scale H	KI0025F02	5	73.30	77.25
Dilution test	991031 10:04	991101 09:55	TRUE Block	Scale H	KI0025F02	6	64.00	72.30
Dilution test	991031 10:40	991101 12:38	TRUE Block	Scale H	KA2563A	3	206.00	208.00
Dilution test	991031 10:40	991101 11:10	TRUE Block	Scale H	KI0023B	4	84.75	86.20
Dilution test	991031 10:40	991101 09:01	TRUE Block	Scale H	KI0023B	7	43.45	69.95
Dilution test	991031 10:40	991101 10:36	TRUE Block	Scale H	KI0025F02	3	93.35	99.25
Dilution test	991101 09:15	991103 09:16	TRUE Block	Scale H	KI0023B	6	70.95	71.95
Dilution test	991101 10:05	991103 09:20	TRUE Block	Scale H	KI0025F03	3	89.00	92.50
Dilution test	991101 10:55	991103 09:20	TRUE Block	Scale H	KI0025F03	5	75.00	84.00
Dilution test	991101 11:39	991103 09:27	TRUE Block	Scale H	KI0025F03	6	66.50	74.00
Dilution test	991101 11:58	991103 09:12	TRUE Block	Scale H	KI0025F02	7	56.10	63.00
Dilution test	991101 12:50	991103 08:31	TRUE Block	Scale H	KA2563A	4	187.00	190.00
Start pumping	991102 11:00	991105 11:00	TRUE Block	Scale H	KI0025F03	4	85.00	88.00
Dilution test	991103 08:34	991104 08:26	TRUE Block	Scale H	KA2563A	3	206.00	208.00
Dilution test	991103 10:08	991104 09:57	TRUE Block	Scale F	KI0023B	7	43.45	69.95
Dilution test	991103 10:10	991104 09:47	TRUE Block	Scale H	KI0025F02	6	64.00	72.30
Dilution test	991103 10:12	991104 09:36	TRUE Block	Scale F	KI0025F02	3	93.35	99.25
Dilution test	991103 10:15	991104 09:31	TRUE Block	Scale H	KI0023B	4	84.75	86.20
Dilution test	991103 10:20	991104 09:42	TRUE Block	Scale H	KI0025F02	5	73.30	77.25
Dilution test	991104 08:33	991108 09:10	TRUE Block	Scale F	KA2563A	1	242.00	246.00
Dilution test	991104 10:00	991108 09:34	TRUE Block	Scale F	KI0025F03	7	59.50	65.50
Dilution test	991104 10:02	991108 09:38	TRUE Block	Scale F	KI0025F	4	87.50	89.50
Dilution test	991104 10:15	991108 09:39	TRUE Block	Scale F	KI0025F02	9	38.50	50.70
Dilution test	991104 10:19	991108 09:37	TRUE Block	Scale F	KI0023B	2	111.25	112.70
Dilution test	991104 10:25	991108 09:36	TRUE Block	Scale F	KI0023B	5	72.95	83.75
Stop pumping	991105 10:00	991105 10:00	TRUE Block	Scale F	KI0025F03	4	85.00	88.00
Dilution test	991108 10:55	991109 08:25	TRUE Block	Scale F	KI0025F03	7	59.50	65.50
Dilution test	991108 11:10	991109 08:40	TRUE Block	Scale F	KI0023B	5	72.95	83.75
Dilution test	991108 11:15	991109 09:00	TRUE Block	Scale F	KI0023B	4	84.75	86.20
Dilution test	991108 11:55	991109 09:15	TRUE Block	Scale F	KI0023B	4	84.75	86.20
Dilution test	991108 13:35	991109 10:05	TRUE Block	Scale F	KA2563A	3	206.00	208.00
Dilution test	991108 13:50	991109 09:20	TRUE Block	Scale F	KI0023B	7	43.45	69.95
Dilution test	991109 11:26	991111 08:20	TRUE Block	Scale F	KI0025F02	7	56.10	63.00

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Dilution test	991109 11.5	0 991111	09.12	mptirz	Dlagla	01-	****	2	~~ ~~	~~ ~~	
Dilution test	991109 12.2	0 991111	00:13	TRUE	BLOCK	Scale	K10025F03	3	89.00	92.50	
Dilution test	991109 13.2	5 991111	09.00		Dlock	Scale	K10025F03	5	75.00	84.00	
Dilution test	991109 13.5	J 991111	00:40	TRUE	Dlogl	Scale	K10025F03	4	85.00	88.00	
Dilution test	991109 14.3	4 991111 6 001111	00:30	TRUE	BLOCK	Scale	K10025F02	3	93.35	99.25	
Start pumping	991110 10.3	5 991111	10.25	TRUE	BLOCK	Scale	K10025F03	6	66.50	74.00	
Dilution test	991110 10:3	0 001110	10:35	TRUE	BLOCK	Scale	K10025F02	5	73.30	77.25	С
Dilution test	991111 09:3	0 991112 E 001110	08:40	TRUE	BTOCK	Scale	K10025F03	7	59.50	65.50	
Dilution test	991111 09:3	5 991112 0 991112	08:45	TRUE	BLOCK	Scale	KI0023B	5	72.95	83.75	
Dilution test	001111 15.1	5 001112	00:00	TRUE	BLOCK	Scale	K10025F	4	87.50	89.50	
Dilution test	991111 16.2	9 001112	09:05	TRUE	BLOCK	Scale	K10023B	4	84.75	86.20	
Dilution test	991111 18.0	0 991112	10.20	TRUE	Dlogl	Scale	K10023B	7	43.45	69.95	
Stop pumping	991112 00.0	0 991112	10:30	TRUE	BLOCK	Scale	KA2563A	3	206.00	208.00	
Dilution test	991112 09:0	0 991112	09:00	TRUE	BLOCK	Scale	K10025F02	5	73.30	77.25	
Dilution test	991117 09.0	0 991119	09:20	TRUE	BLOCK	Scale	K10025F03	3	89.00	92.50	
Dilution test	991117 09:0	0 991119	09:20	TRUE	BLOCK	Scale	K10025F03	4	85.00	88.00	
Dilution test	991117 09:0	0 991119	09:20	TRUE	BLOCK	Scale	K10025F03	6	66.50	74.00	
Dilution test	991117 09:0	0 991119	09:20	TRUE	BTOCK	Scale	K10025F03	5	75.00	84.00	
Start pumping	991117 09:0	0 991119	10.00	TRUE	BLOCK	Scale	K10025F03	7	59.50	65.50	
Radially converging	991123 10:0	0 991118	11.00	TRUE	BLOCK	Scale	K10023B	6	70.95	71.95	С
Radially converging	991123 12:2	5 001120	11:09	TRUE	BTOCK	Scale	K10025F03	6	66.50	74.00	
Radially converging	991123 13:1	7 991130	10.57	TRUE	BIOCK	Scale	K10025F03	7	59.50	65.50	
Open valve of flow line	991123 13:4	/ 991130	14.14	TRUE	BTOCK	Scale	KI0025F03	5	75.00	84.00	
Open valve of circulation line	991129 14:1	4 001120	14:14	TRUE	BLOCK	Scale	KXTTI	2	12.50	14.00	
Close valve of flow line	001120 14.1	4 991129 2 001120	14:14	TRUE	BLOCK	Scale	KX1"I'I	2	12.50	14.00	
Close valve of circulation line	991129 14:2	3 991129	14:23	TRUE	Block	Scale	KXTTI	2	12.50	14.00	
Stop pumping	991129 14:2	001120	11.20	TRUE	BLOCK	Scale	KXTTI	2	12.50	14.00	
Interference test	991206 17.3	0 991130	10.00	TRUE	BLOCK	Scale	K10023B	6	70.95	71.95	
Start pumping	991206 17.3	0 001200	17.20	TRUE	BLOCK	Scale	K10025F03	/	59.50	65.50	
Stop pumping	991206 18.0	0 991200	10.00	TRUE	BLOCK	Scale	K10025F03	7	59.50	65.50	
Start pumping	991206 10:0	5 991206	10:02	TRUE	BLOCK	Scale	K10025F03	7	59.50	65.50	
Interference test	991206 19.0	5 991200	10.27	TRUE	BLOCK	Scale	K10025F03	4	85.00	88.00	
Stop pumping	991206 19:0	7 991206	10.27	TRUE	BLOCK	Scale	K10025F03	4	85.00	88.00	
Interference test	991200 19.3	5 991200	19:37	TRUE	Dlagh	Scale	K10025F03	4	85.00	88.00	
Start pumping	991207 08.4	5 991207	09:17	TRUE	BLOCK	Scale	K10025F03	3	89.00	92.50	
Stop pumping	991207 08:4	7 991207	00:45	TRUE	BLOCK	Scale	K10025F03	3	89.00	92.50	
Interference test	991207 09.1	001207	10.50	TRUE	BLOCK	Scale	K10025F03	3	89.00	92.50	
Start pumping	991207 10:2	991207	10.20	TRUE	BLOCK	Scale	K10025F03	6	66.50	74.00	
Stop pumping	991207 10.2		10.20	TRUE	BLOCK	Scale	K10025F03	6	66.50	74.00	
Interference test	991207 10.5	001207	10:52	TRUE	BLOCK	Scale	K10025F03	5	66.50	74.00	
Start pumping	991207 12:0	001207	12:32	TRUE	BLOCK	Scale	K10025F03	5	75.00	84.00	
Stop pumping	991207 12:0	0 991207	12.20	TRUE	DIOCK	Scale	KIUU25FU3	5	/5.00	84.00	
Start pumping	991207 16.0	991207	16.00	TRUE	BLOCK	Scale	KI0025F03	5	75.00	84.00	
Radially converging	991207 10:0		10:00	TRUE	DIOCK	Scale	KIUU25FU3	2	/5.00	84.00	
	JJ1200 12:1	0 001400	⊥⊿:⊥V	TROF	PTOCK	scaie	KT0052603	ک	89.00	92.50	

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Radially converging	991208 13.25	991208 13.25		Casla	WT000Em00	r.	RF 00		
Radially converging	991208 14.15	991208 13.25	TRUE BLOCK	Scale	K10025F03	5	75.00	84.00	
Open valve of flow line	991209 13.27	991200 13.27	TRUE BLOCK	Scale	KIUU25FU3	6	66.50	74.00	
Open valve of circulation line	991209 13.27	991209 13.27	TRUE BLOCK	Scale	KATT3	2	12.42	14.42	
Close valve of flow line	991209 14.47	991209 13.27	TRUE BLOCK	Scale	KXTT3	2	12.42	14.42	
Close valve of circulation line	991209 14.47	991209 14:47	TRUE BLOCK	Scale	KXTT3	2	12.42	14.42	
Open pressure valve	991213 14.46	991209 14:47	TRUE BLOCK	Scale	KXTT3	2	12.42	14.42	
Unclassified water sampling	991213 14.40	991213 14:40	TRUE BLOCK	Scale	KXTT5		0.00	25.80	R
Close pressure valve	991213 14.40	991213 14:56	TRUE BLOCK	Scale	KXTT5		0.00	25.80	мс
Packer installation	991213 14:50	991213 14:50	TRUE BLOCK	Scale	KXTT5		0.00	25.80	R
Open pressure valve	991214 09:08	991214 11:20	TRUE BLOCK	scale	KXTT5		0.00	25.80	М
Packer expand	991214 09:00	991214 09:08	TRUE BLOCK	Scale	KXTT5		0.00	25.80	
Packer release	00101/ 10./0	991214 18:03	TRUE BLOCK	Scale	KXTT5		0.00	25.80	R
Packer removal	991214 13:43 991214 13:45	991214 13:43	TRUE BLOCK	Scale	KXTT4				
Packer installation	991214 15:45	991214 15:30	TRUE BLOCK	Scale	KXTT4		0.00	49.31	
Packer release	991214 15:40	991214 18:00	TRUE BLOCK	Scale	KXTT4		0.00	49.31	М
Packer release	991214 17:04	991214 17:04	TRUE BLOCK	Scale	KXTT1				С
Packer release	991214 17:04	991214 17:04	TRUE BLOCK	Scale	KXTT2				С
Packer release	991214 17:07	991214 17:07	TRUE Block	Scale	KA3005A				С
Packer evpand	991214 17:10	991214 17:10	TRUE Block	Scale	KXTT3				С
Packer expand	991214 18:01	991214 18:01	TRUE Block	Scale	KA3005A				
Packer expand	991214 18:16	991214 18:16	TRUE Block	Scale	KXTT2				
Packer expand	991214 18:31	991214 18:31	TRUE Block	Scale	KXTT3				
Packer expand	991214 18:32	991214 18:32	TRUE Block	Scale	KXTT1				
Pilution test	991214 18:34	991214 18:34	TRUE Block	Scale	KXTT4		0.00	49.31	R
Stop pumping	991220 13:57	991220 13:57	TRUE Block	Scale	KXTT5	2	9.61	9.81	
scob bambrug	991220 14:04	991220 14:04	TRUE Block	Scale	KXTT5	2	9.61	9.81	

Number of rows: 284. 1999-12-23 14:05:08

Activity log of tunnel TASA during the period 1999-06-01 – 1999-12-28

SICADA/Diary - Activity Log, 990601-991223, Tunnel TASA, secup > 3500

Activity	Start Date	Stop Date	Project	Idcode Section No	Secup (m)	Seclow (m) Flags
Weir - installation	990604 00:00	990618 00:00	PROTOTYPE	MA3532	3552.00	3546.00
Weir - installation	990604 00:00	990618 00:00	PROTOTYPE	MA3546	3546.00	3552.00
Weir - installation	990604 00:00	990618 00:00	PROTOTYPE	MA3552	3552.00	3570.00
Weir - installation	990604 00:00	990618 00:00	PROTOTYPE	MA3570	3570.00	3576.00
Weir - installation	990604 00:00	990618 00:00	PROTOTYPE	MA3576	3576.00	3582.00
Weir - installation	990604 00:00	990618 00:00	PROTOTYPE	MA3582	3582.00	3588.00
Weir - installation	990604 00:00	990618 00:00	PROTOTYPE	MA3588	3588.00	3600.00
Water inflow measurements in weirs	990618 14:32	990619 17:10	PROTOTYPE	MA3532	3532.00	3546.00
Water inflow measurements in weirs	990619 16:27	990619 17:14	PROTOTYPE	MA3532	3532.00	3546.00
Water inflow measurements in weirs	990708 07:45	990708 08:08	PROTOTYPE	TASA	3576.00	3580.00
Water inflow measurements in weirs	990729 09:00	990729 13:00	PROTOTYPE	MA3570	3570.00	3574.00
Water inflow measurements in weirs	990729 09:00	990729 13:00	PROTOTYPE	MA3576	3576.00	3580.00
Water inflow measurements in weirs	990729 09:00	990729 13:00	PROTOTYPE	MA3582	3582.00	3586.00
Tunnel mapping with TMS system	991115 12:00	991116 12:10	PROTOTYPE	TASA	3545.00	3587.00

Number of rows: 14. 1999-12-23 13:31:21

SICADA/Diary - Activity Log, 990601-991223. idcode like `_A3%'

Activity	Start Date	Stop Date	Project	Idcode Section No	Secup (m)	Seclow (m)	Flags
Borehole documentation with BOREMAP system	990602 13:35	990602 13:35	PROTOTYPE	KA3542G02	0.00	35.01	C
Borehole documentation with BOREMAP system	990602 16:05	990602 16:05	PROTOTYPE	KA3590G01	0.00	30.06	c
Borehole documentation with BOREMAP system	990602 16:38	990602 16:38	PROTOTYPE	KA3542G01	0.00	30.04	Ċ
Borehole documentation with BOREMAP system	990603 11:24	990603 11:24	PROTOTYPE	KA3566G02	0.00	30.01	č
Borehole documentation with BOREMAP system	990603 11:24	990603 11:24	PROTOTYPE	KA3590G02	0.00	30.05	Č
Borehole documentation with BOREMAP system	990603 13:17	990603 13:17	PROTOTYPE	KA3566G01	0.00	35.01	c
Borehole documentation with BOREMAP system	990603 14:17	990603 14:17	PROTOTYPE	KA3554G01	0.00	30.01	č
Borehole documentation with BOREMAP system	990603 14:40	990603 14:40	PROTOTYPE	KA3554G02	0.00	30.01	č
Borehole documentation with BOREMAP system	990603 15:24	990603 15:24	PROTOTYPE	KA3579G	0.00	22.65	c
Borehole documentation with BOREMAP system	990603 15:55	990603 15:55	PROTOTYPE	KA3573A	0.00	40.07	č
Weir - installation	990604 00:00	990618 00:00	PROTOTYPE	MA3532	3552.00	3546.00	U U
Weir - installation	990604 00:00	990618 00:00	PROTOTYPE	MA3546	3546.00	3552.00	
Weir - installation	990604 00:00	990618 00:00	PROTOTYPE	MA3552	3552.00	3570.00	
Weir - installation	990604 00:00	990618 00:00	PROTOTYPE	MA3570	3570.00	3576.00	
Weir - installation	990604 00:00	990618 00:00	PROTOTYPE	MA3576	3576.00	3582.00	
Weir - installation	990604 00:00	990618 00:00	PROTOTYPE	MA3582	3582.00	3588.00	
Weir - installation	990604 00:00	990618 00:00	PROTOTYPE	MA3588	3588.00	3600.00	
Borehole documentation with BOREMAP system	990604 07:52	990604 07:52	PROTOTYPE	KA3600F	0.00	50.10	С
Borehole documentation with BOREMAP system	990604 08:35	990604 08:35	PROTOTYPE	KA3548A01	0.00	30.00	Ċ
Close pressure valve	990608 13:10	990608 13:10	PROTOTYPE	KA3566G01 4	1.30	6.30	R
Close pressure valve	990608 13:10	990608 13:10	PROTOTYPE	KA3572G01 2	1.30	5.30	R
Flushing water	990610 16:20	990610 16:24	TRUE Block Scale	KA3005A 2	46.78	50.03	
Open pressure valve	990614 10:30	990614 10:30	TRUE Block Scale	KA3065A02	0.00	67.00	
TVO - Detailed difference flow measurements	990614 18:30	990615 15:30	TRUE Block Scale	KA3065A02	0.00	67.00	
Close pressure valve	990616 08:15	990616 08:25	TRUE Block Scale	KA3065A02	0.00	67.00	
HMS - Maintenance	990617 14:20	990618 11:45		KA3566G01			Е
HMS - Maintenance	990617 14:20	990618 11:45		KA3566G02			E
HMS - Maintenance	990617 14:20	990618 11:45		KA3572G01			E
Water inflow measurements in weirs	990618 14:32	990619 17:10	PROTOTYPE	MA3532	3532.00	3546.00	-
Water inflow measurements in weirs	990619 16:27	990619 17:14	PROTOTYPE	MA3532	3532.00	3546.00	
Deposit hole boring data acquisition	990619 17:50	990622 21:32	PROTOTYPE	DA3587G01	0.00	8.37	
Deposit hole boring	990619 17:55	990622 21:32	PROTOTYPE	DA3587G01	0.00	8.37	
Deposit hole boring record	990619 17:55	990622 21:32	PROTOTYPE	DA3587G01	0.00	8.37	
Deposit hole boring	990630 08:00	990702 21:25	PROTOTYPE	DA3581G01	0.00	8.37	
Deposit hole boring record	990630 08:00	990702 21:25	PROTOTYPE	DA3581G01	0.00	8.37	
Deposit hole boring data acquisition	990630 08:00	990702 21:25	PROTOTYPE	DA3581G01	0.00	8.37	
HMS - Maintenance	990630 13:00	990701 10:45		KA3590G01			Е
HMS - Maintenance	990630 15:30	990630 16:15		KA3563G			E

HMS - Maintenance	990630 15:30	990630 16:15		KA3574G01			Е
HMS - Maintenance	990630 15:30	990630 16:15		KA3576G01			Ē
HMS - Maintenance	990630 23:00	990701 10:45		KA3566G01			E
HMS - Maintenance	990630 23:00	990701 10:45		KA3593G			E
Flow measurement at weirs	990702 14:41	990702 14:41		MA3179G 1	2994.00	3179.00	
Flow measurement at weirs	990702 14:42	990702 14:42		MA3384G 1	340.00	450.00	
Flow measurement at weirs	990702 14:43	990702 14:43		MA3411G 1	3179.00	3411.00	
Flow measurement at weirs	990702 14:44	990702 14:44		MA3426G 1	3426.00	3600.00	
Open pressure valve	990704 15:00	990704 15:00	Select-2	KA3065A02			
BIPS-logging in borehole	990704 16:06	990704 17:07	Select-2	KA3065A02	1.00	69.55	EC
Close pressure valve	990704 17:15	990704 17:15	Select-2	KA3065A02			
Open pressure valve	990705 16:20	990705 16:20	Select-2	KA3065A02	1.00	69.55	
Deposit hole boring	990705 16:50	990708 11:30	PROTOTYPE	DA3575G01	0.00	8.37	
Deposit hole boring record	990705 16:50	990708 11:30	PROTOTYPE	DA3575G01	0.00	8.37	
Radar logging - Directional Antenna	990705 17:00	990705 22:00	Select-2	KA3065A02			
Close pressure valve	990705 18:25	990705 18:25	Chemlab-2	KA3065A02			
Deposit hole boring data acquisition	990707 15:48	990708 11:29	PROTOTYPE	DA3575G01	0.00	8.37	
Deposit hole boring data acquisition	990713 09:57	990715 15:25	PROTOTYPE	DA3569G01	0.00	8.37	
Deposit hole boring record	990713 10:00	990715 15:25	PROTOTYPE	DA3569G01	0.00	8.37	
Deposit hole boring	990713 10:00	990715 15:25	PROTOTYPE	DA3569G01	0.00	8.37	
Borehole direction surveying	990721 13:00	990721 15:00	PROTOTYPE	DA3587G01	0.00	8.15	I
Borehole coordinate surveying	990721 13:00	990721 15:00	PROTOTYPE	DA3587G01	0.00	8.15	I
Borehole direction surveying	990722 11:30	990722 13:30	PROTOTYPE	DA3581G01	0.00	8.15	I
Borehole coordinate surveying	990722 11:30	990722 13:30	PROTOTYPE	DA3581G01	0.00	8.15	I
Borehole direction surveying	990722 15:30	990722 17:30	PROTOTYPE	DA3575G01	0.00	8.15	I
Borehole coordinate surveying	990722 15:30	990722 17:30	PROTOTYPE	DA3575G01	0.00	8.15	I
Borehole coordinate surveying	990723 10:00	990723 12:00	PROTOTYPE	DA3569G01	0.00	8.15	I
Borehole direction surveying	990723 10:00	990723 12:00	PROTOTYPE	DA3569G01	0.00	8.15	I
Packer release	990727 08:45	990730 11:00	PROTOTYPE	KA3539G			
Packer release	990727 08:45	990730 11:00	PROTOTYPE	KA3542G01			
Packer release	990727 08:45	990730 11:00	PROTOTYPE	KA3542G02			
Packer release	990727 08:45	990730 11:00	PROTOTYPE	KA3544G01			
Packer release	990727 08:45	990730 11:00	PROTOTYPE	KA3546G01			
Packer release	990727 08:45	990730 11:00	PROTOTYPE	KA3550G01			
Packer release	990727 08:45	990730 11:00	PROTOTYPE	KA3552G01			
Packer release	990727 08:45	990730 11:00	PROTOTYPE	KA3554G01			
Packer release	990727 08:45	990730 11:00	PROTOTYPE	KA3554G02			
Packer release	990727 08:45	990730 11:00	PROTOTYPE	KA3563G			
Packer release	990727 08:45	990730 11:00	PROTOTYPE	KA3572G01			
Packer release	990727 08:45	990730 11:00	PROTOTYPE	KA3574G01			
Packer release	990727 08:45	990730 11:00	PROTOTYPE	KA3578G01			
Packer release	990727 08:45	990730 11:00	PROTOTYPE	KA3579G			
Packer release	990727 08:45	990730 11:00	PROTOTYPE	KA3590G01			
Packer release	990727 08:45	990730 11:00	PROTOTYPE	KA3590G02			

Packer release	990727 08:45	990730 11:00	PROTOTYPE	KA3593C			
Water inflow measurements in weirs	990729 09:00	990729 13:00	PROTOTYPE	MA3570	3570 00	3574 00	
Water inflow measurements in weirs	990729 09:00	990729 13:00	PROTOTYPE	MA3576	3576 00	3580 00	
Water inflow measurements in weirs	990729 09:00	990729 13:00	PROTOTYPE	MA3582	3582 00	3586 00	
Water inflow measurements in weirs	990729 09:00	990729 13.00	PROTOTYPE	MA3588	3388 00	3600.00	
Borehole documentation with BOREMAP system	990803 08:32	990803 08:32	Select-2	KA3065A02	2 20	69 75	
Flow measurement at weirs	990803 15:12	990803 15.12		MA3179C 1	2.23	2170 00	
Flow measurement at weirs	990803 15:19	990803 15:19		MA3384C 1	340 00	450 00	
Flow measurement at weirs	990803 15:20	990803 15:20		MA3411C 1	3179 00	3/11 00	
Flow measurement at weirs	990803 15:21	990803 15:21		MA3426G 1	3426 00	3600 00	
Packer installation	990804 16:20	990804 16:20	PROTOTYPE	KA3539C	0 00	30 01	м
Packer expand	990804 16:20	990804 16:20	PROTOTYPE	KA3539C	0.00	30.01	D
Packer expand	990804 16:20	990804 16.20	PROTOTYPE	KA3542G01	0.00	30.01	л р
Packer installation	990804 16:20	990804 16:20	PROTOTYPE	KA3542G01	0.00	30.04	м
Packer expand	990804 16:20	990804 16:20	PROTOTYPE	KA3542G02	0.00	30.04	P
Packer installation	990804 16:20	990804 16:20	PROTOTYPE	KA3542G02	0.00	30.01	м
Packer installation	990804 16:20	990804 16:20	PROTOTYPE	KA3544G01	0.00	12 00	M
Packer expand	990804 16:20	990804 16:20	PROTOTYPE	KA3544G01	0.00	12.00	TI D
Packer installation	990804 16:20	990804 16:20	PROTOTYPE	KA3546G01	0.00	12.00	м
Packer expand	990804 16:20	990804 16:20	PROTOTYPE	KA3546G01	0.00	12.00	D P
Packer installation	990804 16:20	990804 16.20	PROTOTYPE	KA3550G01	0.00	12.00	л м
Packer expand	990804 16:20	990804 16.20	PROTOTYPE	KA3550G01	0.00	12.03	D D
Packer installation	990804 16:20	990804 16.20	PROTOTYPE	KA3552C01	0.00	12.03	м
Packer expand	990804 16:20	990804 16.20	PROTOTYPE	KA3552G01	0.00	12.00	D D
Packer installation	990804 16:20	990804 16.20	PROTOTYPE	KA3554G01	0.00	20 01	л м
Packer expand	990804 16:20	990804 16.20	PROTOTYPE	KA3554G01	0.00	30.01	n D
Packer installation	990804 16:20	990804 16.20	PROTOTYPE	KA3554G02	0.00	30.01	м
Packer expand	990804 16:20	990804 16.20	PROTOTYPE	KA3554G02	0.00	30.01	TI TI
Packer installation	990805 13:00	990805 16:00	PROTOTYPE	KA3563C	0.00	30.01	м
Packer expand	990805 13:00	990805 16.00	PROTOTYPE	KA3563G	0.00	30.00	D D
Packer installation	990805 13:00	990805 16.00	PROTOTYPE	KA3572G01	0.00	12 00	л м
Packer expand	990805 13.00	990805 16.00	PROTOTYPE	KA3572G01	0.00	12.00	m D
Packer expand	990805 13.00	990805 16:00	PROTOTYPE	XA3572G01	0.00	12.00	R
Packer installation	990805 13.00	990805 16:00	PROTOTYPE	KA3574G01	0.00	12.00	R M
Packer installation	990805 13.00	990805 16:00	PROTOTYPE	KA3574G01	0.00	12.00	M
Packer expand	990805 13.00	990805 16:00	PROTOTYPE	KA3578G01	0.00	12.60	M
Packer expand	990805 13.00	990805 16:00	PROTOTYPE	KA3576G01	0.00	12.00	R
Packer installation	990805 13.00	990805 16.00	PROTOTIFE	XA3579G	0 00	22 70	
Packer installation	990805 13.00	990805 16:00	PROTOTIFE	KA3373G	0.00	22.70	
Packer expand	990805 13.00	990805 16.00	PROTOTIFE	KA3590G01	0.00	30.01	M
Packer installation	990805 13.00	990805 16:00	PROTOTYPE	KA3590G01	0.00	30.01	R
Packer expand	990805 13.00	990805 16:00	PBULULADE EVOLOTIEE	KAJJJUGUZ VA2500000	0.00	20.0T	M
Packer installation	990805 13.00	990805 16.00	PROTOTIES	NAJJJUGU2 VA2E020	0 00	20.00	к
Packer expand	990805 13.00	990905 16:00	PROTOTIPE	NAJJJJG VAJE020	0.00	30.00	M
rucher expand	220002 T2:00	330003 TO:00	PROTOTIPE	KAJJYJG	0.00	30.00	R

Open pressure valve	990816 10:28	990816 10:28	PROTOTYPE	KA3554G01	1	22 30	30 01
Close pressure valve	990816 10:30	990816 10:30	PROTOTYPE	KA3554G01	1	22.30	30.01
Interference test	990816 12:02	990817 10:20	PROTOTYPE	KA3554G02	2	10 30	21 30
Open pressure valve	990816 12:02	990816 12:02	PROTOTYPE	KA3554C02	2	10.30	21.30
Close pressure valve	990816 16:06	990816 16:06	PROTOTYPE	KA3542C02	2	13 80	21.30
HMS - Maintenance	990817 10:25	990817 11.30	110101111	KA3105A	1	53 00	£9 00
HMS - Maintenance	990817 10:25	990817 11.30		KA3110A	1 2	33.00	19.00
Interference test	990817 12:00	990818 09:55	PROTOTYPE	KA3542C01	2	9.00	24 80
Open pressure valve	990817 17:00	990817 17:00	PROTOTYPE	KA3542G01	2	8 80	24.80
Close pressure valve	990817 18:05	990817 18:05	PROTOTYPE	KA3542G01	2	8 80	24.00
Interference test	990818 11:00	990819 09:55	PROTOTYPE	KA3554G01	1	22 30	30 01
Open pressure valve	990818 11:00	990818 11:00	PROTOTYPE	KA3554G01	1	22.30	30.01
Cleaning borehole	990818 13:00	990818 18:00	PROTOTYPE	KA3548G01	Ŧ	22.30	30.01
Flushing borehole	990818 13:00	990818 18:00	PROTOTYPE	KA3548G01			
Cleaning borehole	990818 13:00	990818 18:00	PROTOTYPE	KA3548G02			
Flushing borehole	990818 13:00	990818 18:00	PROTOTYPE	KA3548G02			
Flushing borehole	990818 13:00	990818 18:00	PROTOTYPE	KA3551G01			
Cleaning borehole	990818 13:00	990818 18:00	PROTOTYPE	KA3551G01			
Cleaning borehole	990818 13:00	990818 18:00	PROTOTYPE	KA3553G01			
Flushing borehole	990818 13:00	990818 18:00	PROTOTYPE	KA3553G01			
Close pressure valve	990818 17:04	990818 17:04	PROTOTYPE	KA3554G01	1	22 30	30 01
Interference test	990819 10:00	990820 08:55	PROTOTYPE	KA3542G02	4	1 30	7 80
Open pressure valve	990819 10:00	990819 10:00	PROTOTYPE	KA3542G02	-т Д	1 30	7.80
Close pressure valve	990819 15:01	990819 15:01	PROTOTYPE	KA3542G02	-# 4	1 30	7.80
Seismic cross-hole measurements	990819 21:00	990918 23:00	PROTOTYPE	KA3548G01	т	1.30	7.00
Acoustic emission measurements	990819 21:00	990918 23:00	PROTOTYPE	KA3548G01			
Acoustic emission measurements	990819 21:00	990918 23:00	PROTOTYPE	KA3548G02			
Seismic cross-hole measurements	990819 21:00	990918 23:00	PROTOTYPE	KA3548G02			
Acoustic emission measurements	990819 21:00	990918 23:00	PROTOTYPE	KA3551G01			
Seismic cross-hole measurements	990819 21:00	990918 23:00	PROTOTYPE	KA3551C01			
Seismic cross-hole measurements	990819 21:00	990918 23:00	PROTOTYPE	KA3553G01			
Acoustic emission measurements	990819 21:00	990918 23:00	PROTOTYPE	KA3553G01			
Open pressure valve	990822 09:03	990822 09:03	PROTOTYPE	KA3539C	2	9 80	19 30
Interference test	990822 09:03	990822 18:00	PROTOTYPE	KA3539G	2	9.80	18 30
Close pressure valve	990822 10:11	990822 10:11	PROTOTYPE	KA3539G	2	9 80	19 30
HMS - Maintenance	990824 14:55	990825 08:57		KA3550G01	1	5.00 6.30	12 03
HMS - Maintenance	990825 08:57	990825 09:13		KA3550G01	2	1 30	5 30
Deposit hole boring data acquisition	990826 12:44	990830 10:21	PROTOTYPE	DA3551G01	2	0.00	2.30
Deposit hole boring	990826 13:05	990901 14:08	PROTOTYPE	DA3551C01		0.00	0.37
Deposit hole boring record	990826 13:05	990901 14:08	PROTOTYPE	DA3551G01		0.00	0.37
HMS - Maintenance	990827 11:14	990827 11:37		KA3550C01	1	6 30	12 03
Flow measurement at weirs	990902 14:25	990902 14:25		MA3179G	± 1	2994 00	3179 00
Flow measurement at weirs	990902 14:40	990902 14:40		MA3426G	- 1	3426 00	3600 00
Flow measurement at weirs	990902 14:41	990902 14:41		MA3411G	- 1	3179 00	3/11 00
					-		2477.00

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Flow measurement at weirs	990902 14:42	990902 14:42		MA3384G	1	340 00	450 00	
Deposit hole boring data acquisition	990914 07:27	990918 21:46	PROTOTYPE	DA3545G01	-	0 00	£ 37	
Deposit hole boring record	990914 08:30	990918 21:55	PROTOTYPE	DA3545G01		0.00	8 37	
Deposit hole boring	990914 08:30	990918 21:55	PROTOTYPE	DA3545G01		0.00	8 37	
Borehole direction surveying	990914 14:30	990914 14:30	Demo Reposit	HA3145C01		0.00	6.96	т
Borehole coordinate surveying	990914 14:30	990914 14:30	Demo Reposit	HA3145G01		0.00	6.96	Ť
Geological mapping	990915 14:30	990920 16:30	Canister Retrieval	DA3147G01		0.00	8 60	*
Start pumping	990916 14:30	990916 14:30	Canister Retrieval	DA3147G01		0.00	0.00	
Stop pumping	990916 15:30	990916 15:30	Canister Retrieval	DA3147G01				
Start pumping	990917 09:00	990917 09:00	Canister Retrieval	DA3147G01				
Stop pumping	990917 10:00	990917 10:00	Canister Retrieval	DA3147G01				
Open pressure valve	990920 17:35	990920 17:35	Select-2	KA3065A02				
BIPS-logging in borehole	990920 20:21	990920 21:22	Select-2	KA3065A02		1 00	69 50	
Close pressure valve	990920 21:40	990920 21:40	Select-2	KA3065A02		1.00	05.50	
Open pressure valve	990922 09:55	990922 09:55	GWCM	KA3010A	2	8 56	15 00	
Close pressure valve	990922 09:56	990922 09:56	GWCM	KA3010A	2	8 56	15.00	
Open pressure valve	990922 10:10	990922 10:10	GWCM	KA3105A	3	23 00	25 00	
Close pressure valve	990922 10:11	990922 10:11	GWCM	KA3105A	3	23.00	25.00	
Open pressure valve	990923 13:21	990923 13:21	GWCM	KA3385A	1	32 00	34 00	
Close pressure valve	990923 13:22	990923 13:22	GWCM	KA3385A	1	32.00	34.00	
Water sampling, class 2	990927 10:00	990927 11:00	GWCM	MA3179G	*	52.00	54.00	
Water sampling, class 2	990927 10:00	990927 11:00	GWCM	MA3384G				
Water sampling, class 2	990927 10:00	990927 11:00	GWCM	MA3411G				
Water sampling, class 2	990927 10:00	990927 11:00	GWCM	MA3426G				
Acoustic emission measurements	990927 18:00	990928 19:00	PROTOTYPE	KA3543G01				
Seismic cross-hole measurements	990927 18:00	990928 19:00	PROTOTYPE	KA3543G01				
Acoustic emission measurements	990927 18:00	990928 19:00	PROTOTYPE	KA3545G02				
Seismic cross-hole measurements	990927 18:00	990928 19:00	PROTOTYPE	KA3545G02				
Seismic cross-hole measurements	990927 18:00	990928 19:00	PROTOTYPE	KA3548G01				
Acoustic emission measurements	990927 18:00	990928 19:00	PROTOTYPE	KA3548G01				
Seismic cross-hole measurements	990927 18:00	990928 19:00	PROTOTYPE	KA3548G03				
Acoustic emission measurements	990927 18:00	990928 19:00	PROTOTYPE	KA3548G03				
Open pressure valve	990928 13:00	990928 13:00	GWCM	KA3600F	2	4 50	21 00	P
Open pressure valve	990928 13:00	990928 13:00	GWCM	KA3600F	1	22 00	50 10	D
Water sampling, class 4	990929 08:30	990929 09:40	GWCM	KA3600F	2	4 50	21 00	M
Water sampling, class 4	990929 08:30	990929 09:50	GWCM	KA3600F	1	22 00	50 10	м
Open pressure valve	990929 09:05	990929 09:05	GWCM	KA3385A	1	32 00	34 00	D
Open pressure valve	990929 09:10	990929 09:10	GWCM	KA3573A	2	1 50	17 00	л D
Water sampling, class 4	990929 09:15	990929 10:20	GWCM	KA3385A	1	32 00	34 00	м
Water sampling, class 4	990929 09:15	990929 10:50	GWCM	KA3573A	2	4 50	17 00	M
Close pressure valve	990929 09:45	990929 09:45	GWCM	KA3600F	- 2	4 50	21 00	ri D
Close pressure valve	990929 09:55	990929 09:55	GWCM	KA3600F	- 1	22 00	50 10	л Р
Water sampling, class 4	990929 10:00	990929 13.40	GWCM	KA3573A	- 1	18 00	40 07	л м
Close pressure valve	990929 10:25	990929 10:25	GWCM	KA3385A	- 1	32 00	34 00	P
					-	~~~~	~ * • • • •	n

Close pressure valve	990929 10:55	990929 10:55	GWCM	KA3573A 2	4.50	17 00	R
Open pressure valve	990929 13:00	990929 13:00	GWCM	KA3105A 3	23 00	25 00	R
Unclassified water sampling	990929 13:00	990929 13:08	GWCM	KA3105A 3	23.00	25.00	м
Close pressure valve	990929 13:08	990929 13:08	GWCM	KA3105A 3	23 00	25.00	R
Unclassified water sampling	990929 13:13	990929 13:18	GWCM	KA3010A 2	8.56	15.00	м
Open pressure valve	990929 13:13	990929 13:13	GWCM	KA3010A 2	8.56	15.00	R
Close pressure valve	990929 13:18	990929 13:18	GWCM	KA3010A 2	8.56	15.00	R
Unclassified water sampling	990929 13:23	990929 13:32	GWCM	KA3067A 2	31 00	34 00	м
Open pressure valve	990929 13:23	990929 13:23	GWCM	KA3067A 2	31.00	34.00	R
Close pressure valve	990929 13:32	990929 13:32	GWCM	KA3067A 2	31.00	34.00	R
Unclassified water sampling	990929 13:42	990929 13:52	GWCM	KA3385A 1	32.00	34.00	м
Open pressure valve	990929 13:42	990929 13:42	GWCM	KA3385A 1	32.00	34.00	R
Close pressure valve	990929 13:45	990929 13:45	GWCM	KA3573A 1	18.00	40.07	R
Close pressure valve	990929 13:52	990929 13:52	GWCM	KA3385A 1	32.00	34.00	R
Open pressure valve	990929 14:38	990929 14:38	TRUE Block Scale	HA3289B	52100	51.00	
Close pressure valve	990929 15:15	990929 15:15	TRUE Block Scale	HA3289B			
Unclassified water sampling	990930 13:35	990930 13:40	GWCM	HA3289B			м
Open pressure valve	990930 13:35	990930 13:35	GWCM	HA3289B			R
Close pressure valve	990930 13:42	990930 13:42	GWCM	HA3289B			R
Open pressure valve	991001 08:40	991001 08:40	GWCM	KA3110A			R
Water sampling, class 4	991001 09:00	991001 10:35	GWCM	KA3110A			м
Close pressure valve	991001 10:40	991001 10:40	GWCM	KA3110A			R
Borehole direction surveying	991004 11:30	991004 12:45	PROTOTYPE	DA3545G01	0.00	8 15	т
Borehole coordinate surveying	991004 11:30	991004 12:45	PROTOTYPE	DA3545G01	0.00	8.15	Ť
Borehole direction surveying	991005 14:10	991005 17:40	PROTOTYPE	DA3551G01	0.00	8.15	Ť
Borehole coordinate surveying	991005 14:10	991005 17:40	PROTOTYPE	DA3551G01	0.00	8.15	Ť
Borehole documentation with BOREMAP system	991005 15:56	991005 15:56	Select-2	KA3065A02	8.79	23.86	-
Open pressure valve	991006 09:00	991006 09:00	GWCM	SA3045A	0000	20100	R
Water sampling, class 4	991006 09:30	991006 10:15	GWCM	SA3045A			м
Close pressure valve	991006 10:18	991006 10:18	GWCM	SA3045A			R
Flow measurement at weirs	991015 11:24	991015 11:24		MA3179G 1	2994 00	3179 00	
Flow measurement at weirs	991015 13:51	991015 13:51		MA3426G 1	3426 00	3600 00	
Flow measurement at weirs	991015 13:52	991015 13:52		MA3411G 1	3179 00	3411 00	
Flow measurement at weirs	991015 13:53	991015 13:53		MA3384G 1	340 00	450 00	
Packer break down	991103 07:37	991104 10:37	HMS	KA3600F 1	22 00	50 10	c
Flow measurement at weirs	991118 15:30	991118 15:30		MA3179G 1	2994 00	3179 00	Ŭ
Flow measurement at weirs	991118 15:46	991118 15:46		MA3384G 1	340 00	450 00	
Flow measurement at weirs	991118 15:47	991118 15:47		MA3411G 1	3179 00	3411 00	
Flow measurement at weirs	991118 15:48	991118 15:48		MA3426G 1	3426 00	3600 00	
Unclassified water sampling	991130 09:50	991130 10:40		KA3010A 2	8 56	15 00	м
Open pressure valve	991130 09:50	991130 09:50		KA3010A 2	8.56	15 00	P
Close pressure valve	991130 10:40	991130 10:40		KA3010A 2	8 56	15 00	P
Unclassified water sampling	991130 10:50	991130 11:40		KA3067A 2	31 00	34 00	M
Open pressure valve	991130 10:50	991130 10:50		KA3067A 2	31.00	34.00	R
							~~~

Close pressure valve	991130 11:40	991130 11:40	KA3067A	2	31.00	34.00	R
Unclassified water sampling	991130 13:40	991130 14:35	KA3110A	1	20.00	29.00	м
Open pressure valve	991130 13:40	991130 13:40	KA3110A	1	20.00	29.00	R
Close pressure valve	991130 14:35	991130 14:35	KA3110A	1	20.00	29.00	R
Unclassified water sampling	991130 14:40	991130 15:45	KA3105A	3	23.00	25.00	м
Open pressure valve	991130 14:40	991130 14:40	KA3105A	3	23.00	25.00	R
Close pressure valve	991130 15:45	991130 15:45	KA3105A	3	23.00	25.00	R
Unclassified water sampling	991203 09:05	991203 11:50	KA3385A	1	32.00	34.00	м
Open pressure valve	991203 09:05	991203 09:35	KA3385A	1	32.00	34.00	R
Unclassified water sampling	991203 09:30	991203 10:35	KA3510A	2	114.00	121.00	M
Close pressure valve	991203 10:35	991203 10:35	KA3510A	2	114.00	121.00	R
Close pressure valve	991203 11:50	991203 11:50	KA3385A	1	32.00	34.00	R
Unclassified water sampling	991203 14:30	991203 15:00	HA3289B	_			м
Open pressure valve	991203 14:30	991203 14:30	HA3289B				R
Close pressure valve	991203 17:27	991203 17:27	HA3289B				3
Packer release	991214 17:07	991214 17:07 TRUE Block Scale	KA3005A				Ĉ
Packer expand	991214 18:01	991214 18:01 TRUE Block Scale	KA3005A				C

Number of rows: 275. 1999-12-23 13:45:32
Data for pressure registration in observation sections during drilling of deposition holes – pressure differences between start of drilling and end of drilling period for each deposition borehole

Bhname	Borehole name
Secup	Secup (m) of observation section
Seclow	Seclow (m) of observation section
Date time	Date and time for event as indicated by $P_{\text{index}}$
Bhsect	Borehole section number of observation borehole
Pindex	Occurring event
	• 00 = undisturbed situation before drilling
	• 10 – 11 = drilling of dep hole 1
	• 20 – 21 = drilling of dep hole 2
	• 30 – 31 = drilling of dep hole 3
	• 40 – 41 = drilling of dep hole 4
	• 50 – 51 = drilling of dep hole 5
	• 60 – 61 = drilling of dep hole 6
	• 62 = undisturbed situation after drilling
P (kPa)	Pressure in section (kPa)
<b>P</b> (m)	Pressure in section (metres of water)
dP(X0-X1) (m)	Pressure difference between start and stop of drilling
	• X0 = start of drilling of dep hole X
	• X1 = end of drilling of dep hole X
dP (-1=-;1=+)	Increase of pressure = + ; Decrease of pressure = -

Bhane         Secury         Secury         Date dam         Bhane, Date	Pressure in I	boreholes	during drill	ling of deposition	holes		1		1	dP			
MASSA         US20         US00         MASSA         US2A         US2A         US2A         USAA         USAA           MASSA         US20         US00         MASSA         US2A         US2A         USAA         MASSA         USAA         <	Bhname	secup	seclow	Date time	Bh sect_no	Pindex	P (kPa)	P (m)	dP(X1-X0) (m)	-1=-;1=+			
MASSIMA         122.22         190.00         98-99-19 / 78         1         11         1472.5         442.35         422.3         Jump         243.3           MASSIMA         120.20         190.00         98-96-201.20         1         14         472.56         472.56         420.3         420.4         424.5         423.4         423.6         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         423.5         43.1         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7         423.7	KA3510A	122.02	150.00	99-06-15 00:00	1	00	4125.4	412.54					
Modeling         1202         1900         96.4-21 (32)         1         11         44255         442.50         1         1         44255         442.50         1         1         1         44255         442.50         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	KA3510A	122.02	150.00	99-06-19 17:55	1	10	4122.5	412.25			Sum +:	133	35%
Description         12:00         19:00         19:00         19:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00         10:00	KA3510A	122.02	150.00	99-06-22 21:32	1	11	4120.5	412.05	-0.20	-1	Sum -:	243	65%
Construction         Local         Description         Local         Description         Local         Description         Local         Description         Local         Description         Local         Local <thlocal< th="">         Local         <thlocal< th=""></thlocal<></thlocal<>	KA3510A	122.02	150.00	99-06-30 08:00	1	20	4125.6	412.56			ļ		
Construct         Description         1         30         4428         442.3         4.0         -           KASIBM         102.00         100.00         100.00         100.00         400.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00         410.00	KA3510A	122.02	150.00	99-07-02 21:25	1	21	4121.5	412.15	-0.41	-1			
SNSTEM         12/20         10000         98/17/11/20         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <th1< th=""></th1<>	KA3510A	122.02	150.00	99-07-05 16:50	1	30	4123.6	412.36					
No.2001         10.200         990.71 812.3         1         N         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201         10.201 <td>KA3510A</td> <td>122.02</td> <td>150.00</td> <td>99-07-08 11:30</td> <td></td> <td>31</td> <td>4122.5</td> <td>412.25</td> <td>-0.10</td> <td>-1</td> <td></td> <td></td> <td></td>	KA3510A	122.02	150.00	99-07-08 11:30		31	4122.5	412.25	-0.10	-1			
MASTINA         122.02         1500.00         199-00-110.03         1         50         1113         1113         1137         0.03         1           KASISMA         122.02         1500.00         99-00-110.03         1         60         4133.2         413.97         0.02         -1           KASISMA         122.02         1500.00         99-0-110.03         1         60         4132.4         0.13.2         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13         0.13	KA3510A	122.02	150.00	99-07-15 10:00	1	40	4124.8	412.48	0.24		·		
KASSINA         12202         19500         19500         19500         1         60         1117         902         1           KASSINA         1220         15000         1900-19215         1         61         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132         4132 <td< td=""><td>KA3510A</td><td>122.02</td><td>150.00</td><td>99-08-26 13:05</td><td>1</td><td>50</td><td>4121.7</td><td>412.17</td><td>-0.31</td><td>-1</td><td></td><td></td><td></td></td<>	KA3510A	122.02	150.00	99-08-26 13:05	1	50	4121.7	412.17	-0.31	-1			
KASSIDA         12.202         195.00         99-94-92.15         1         90.1         11.304         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24         413.24 </td <td>KA3510A</td> <td>122.02</td> <td>150.00</td> <td>99-09-01 14:08</td> <td>1</td> <td>51</td> <td>4131.9</td> <td>413.19</td> <td>-0.02</td> <td></td> <td></td> <td></td> <td></td>	KA3510A	122.02	150.00	99-09-01 14:08	1	51	4131.9	413.19	-0.02				
KASSIM         1220         190.00         99-0-91255         1         91         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41324         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334         41334	KA3510A	122.02	150.00	99-09-14 08:30	1	60	4133.6	413.36	-0.02	-1			
KASSENA.         12.202         195.00         99-62-90.000         1         62         41322         11328         1132         1132           KASSENA.         114.02         121.02         99-06-150.000         2         00         41133         1132         1           KASSENA.         114.02         121.02         99-06-175.02         1         41133         41133         0.16         1           KASSENA.         114.02         121.02         99-06-175.02         2         11         41133         41132         1         1           KASSENA.         114.02         121.02         99-07-051.05         2         30         4111.0         411.11         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td>KA3510A</td> <td>122.02</td> <td>150.00</td> <td>99-09-18 21:55</td> <td>1</td> <td>61</td> <td>4132.4</td> <td>413.24</td> <td>-0.12</td> <td>-1</td> <td></td> <td></td> <td></td>	KA3510A	122.02	150.00	99-09-18 21:55	1	61	4132.4	413.24	-0.12	-1			
Hoad         Product         Product <thproduct< th=""> <thproduct< th=""> <thprod< td=""><td>KA3510A</td><td>122.02</td><td>150.00</td><td>99-12-01 00:00</td><td>1</td><td>62</td><td>4132.6</td><td>413.26</td><td>0.12</td><td></td><td></td><td>+</td><td></td></thprod<></thproduct<></thproduct<>	KA3510A	122.02	150.00	99-12-01 00:00	1	62	4132.6	413.26	0.12			+	
KASSIA         III 42         111 02         99 06 19 070         2         00         41139         011         011           KASIGA         III 402         121 02         99 06 02 1735         2         10         41139         0.16         1         1           KASIGA         II402         121 02         99 07 02 175         2         2         11         41139         0.16         1         1           KASIGA         II402         121 02         99 07 05 1650         2         30         41111         0.12         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1 <td></td> <td>·</td>													·
KA355A         11402         12102         9966/23/23         2         10         41123         0.0         1           KA355A         11402         12102         9966/23/23         2         11         41139         0.16         1           KA355A         11402         12102         9960/23/2152         2         20         41133         4111         0.16         1           KA355A         11402         12102         990/743/153         2         30         41113         4111         0.08         1           KA355A         11402         12102         990/7431000         2         40         41107         41107         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	KA3510A	114.02	121.02	99-06-15 00:00	2	00	4113.9	411.39			<u> </u>		
KA550A         11402         121.02         99.66.22132         2         11         41139         01.6         1         1           KA551AA         11402         121.02         98.65.30.000         2         20         4115.2         411.0         1         1         1           KA551AA         11402         121.02         98.07.09 (5.02         30         4111.0         411.10         1         1         1           KA551AA         11402         121.02         98.07.09 (5.02         30         4111.0         411.10         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1         1	KA3510A	114.02	121.02	99-06-19 17:55	2	10	4112.3	411.23					
KA3590         114.02         121.02         98-07-021.23         2         20         411.82	KA3510A	114.02	121.02	99-06-22 21:32	2	11	4113.9	411.39	0.16	1		<u>+</u>	
KA3510A         114.02         121.02         98-07-021.23         2         24         411.30         411.30         40.12         1           KA3510A         114.02         121.02         98-07-081.50         2         30         4111.18         411.11         0.08         1           KA3510A         114.02         121.02         98-07-15 10:00         2         440         410.90         40.09         40.09         -1	KA3510A	114.02	121.02	99-06-30 08:00	2	20	4115.2	411.52					
KA350A         11402         12102         99-07-05 16:50         2         30         4111.1         41.11             KA3510A         11402         12102         99-07-05 11:50         2         31         4111.9         41.11         0.08         1            KA3510A         11402         12102         99-07-05 15:50         2         40         4100.7         410.03	KA3510A	114.02	121.02	99-07-02 21:25	2	21	4113.9	411.39	-0.12	-1			
KA350A         (14.02)         (21.02)         (99.07.48 11.30)         2         31         411.19         0.08         1           KA351AA         (14.02)         (21.02)         99.07.15 15.23         2         44         410.99         4.08         4.0         -           KA351AA         (14.02)         (21.02)         99.09.07.15 16.23         2         44         410.99         4.03.1         4.01.3         4.01.3         4.01.3         4.01.3         4.01.3         4.01.3         4.01.3         4.01.3         4.01.3         4.01.3         4.01.3         4.01.3         4.01.3         4.01.3         4.01.3         4.01.3         4.01.3         4.01.3         4.01.3         4.01.3         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4         4.01.4	KA3510A	114.02	121.02	99-07-05 16:50	2	30	4111.1	411.11					
KA3510A         114.02         121.02         969/7131000         2         40         4110.7         4110.7	KA3510A	114.02	121.02	99-07-08 11:30	2	31	4111.9	411.19	0.08	1			
KA350A         11402         121.02         960/15 1525         2         41         41039         41039         -1           KA3510A         11402         121.02         960.0611505         2         50         41043         40.31         -1         -1           KA3510A         11402         121.02         960.061155         2         50         41013         4013         -1         -1           KA3510A         11402         121.02         960.0611255         2         61         4008.8         4008.84         -1         -1         -1           KA3510A         452         113.02         990.0619.07.55         3         10         366.7         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1         -1 <td< td=""><td>KA3510A</td><td>114.02</td><td>121.02</td><td>99-07-13 10:00</td><td>2</td><td>40</td><td>4110.7</td><td>411.07</td><td></td><td></td><td></td><td></td><td></td></td<>	KA3510A	114.02	121.02	99-07-13 10:00	2	40	4110.7	411.07					
MASSIM         11102         121.02         996.9614068         2         60         41043         410.3         410.3           MASSIMA         114.02         121.02         996.9614068.20         2         60         41015         410.15         410.15           MASSIMA         114.02         121.02         996.9614068.20         2         66         41015         410.15         410.15           KASSIMA         114.02         121.02         996.96150000         2         62         4068.4         408.84             KASSIMA         114.02         121.02         996.96150000         3         00         386.15	KA3510A	114.02	121.02	99-07-15 15:25	2	41	4109.9	410.99	-0.08	-1			
Model No.         11.002         12.002         99.09.01 10.08         2         51         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         410331         410331         410331         410331         410331         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031         41031 <td>KA3510A</td> <td>114.02</td> <td>121.02</td> <td>99-08-26 13:05</td> <td>2</td> <td>50</td> <td>4104.3</td> <td>410.43</td> <td></td> <td></td> <td></td> <td> </td> <td></td>	KA3510A	114.02	121.02	99-08-26 13:05	2	50	4104.3	410.43					
House         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02         111.02 </td <td>KA3510A</td> <td>114.02</td> <td>121.02</td> <td>99-09-01 14:08</td> <td>2</td> <td>51</td> <td>4103.1</td> <td>410.31</td> <td>-0.12</td> <td>-1</td> <td></td> <td>ļ</td> <td></td>	KA3510A	114.02	121.02	99-09-01 14:08	2	51	4103.1	410.31	-0.12	-1		ļ	
House         House <th< td=""><td>KA3510A</td><td>114.02</td><td>121.02</td><td>99-09-14 08:30</td><td>2</td><td>60</td><td>4101.5</td><td>410.15</td><td></td><td></td><td></td><td></td><td></td></th<>	KA3510A	114.02	121.02	99-09-14 08:30	2	60	4101.5	410.15					
Massing         Massing         Massing         Massing         Massing         Massing           KA3510A         4.52         113.02         99-66-1917.55         3         0.0         38615         386.15	KA3510A	114.02	121.02	99-09-10 21.00	2	61	4098.8	409.88	-0.27	-1			
KA3510A         4.52         113.02         99-06-16 00:00         3         00         3861.5         366.15            KA3510A         4.52         113.02         99-06-22 1:32         3         10         3666.7             KA3510A         4.52         113.02         99-06-30 08:00         3         20         386.7         386.7              KA3510A         4.52         113.02         99-07-05 16:50         3         30         3862.4         386.7		114.02	121.02	33-12-01-00.00	2	02	4089.4	408.94					
KA3510A         4 52         113.02         99.06.19 17.55         3         10         3867.7         3         11         3867.7         1           KA3510A         4 52         113.02         99.06.20 21.23         3         11         3867.3         3867.7         .         .           KA3510A         4 52         113.02         99.07.02 21.25         3         21         3867.7         .         .         .           KA3510A         4 52         113.02         99.07.01 515.0         3         39.02.4         386.24         .         .           KA3510A         4 52         113.02         99.07.01 515.0         3         31         3965.2         396.24         .         .         .           KA3510A         4 52         113.02         99.07.01 51.02.5         3         41         385.01         .0.18         .1         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .         .	KA3510A	4.52	113.02	99-06-15 00:00	3	00	3961.5	386 15					
KA3510A         4.52         113.02         99.06-22.21.32         3         11         3867.3         3867.3         3867.3         3867.3         3867.3         3867.3         3867.3         3867.3         3867.3         3867.3         3867.3         3867.3         3867.3         3867.3         3867.3         3867.3         4         3867.3         3867.3         4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4         3867.4	KA3510A	4.52	113.02	99-06-19 17:55	3	10	3868.7	386.87					
KA3510A       4.52       113.02       99-06-30 08:00       3       20       3988.7       388.87       1         KA3510A       4.52       113.02       99-07.02 21.25       3       21       3065.4       306.24       0.33       1         KA3510A       4.52       113.02       99-07.02 11.30       3       31       3985.2       398.32       0.08       1         KA3510A       4.52       113.02       99-07.06 11.30       3       31       3985.2       398.99          KA3510A       4.52       113.02       99-07.15 15.25       3       41       395.91       398.99           KA3510A       4.52       113.02       99-06.96 13.05       3       50       9947.4       384.01       -0.16          KA3510A       4.52       113.02       99-06.96 13.05       3       60       383.07       385.09       -0.39       .1          KA3510A       4.52       113.02       99-06.96 000       1       00       223.06       239.70           KA3510A       4.52       113.02       99-07.91 000       1       00       230.70         .	KA3510A	4.52	113.02	99-06-22 21:32	3	11	3869.3	386.93	0.06	1			
KA3510A       4.52       113.02       99-07-02 11:25       3       21       3965.4       386.24       0.33       .1         KA3510A       4.52       113.02       99-07-05 16:50       3       30       386:24       386:24       0.88       1         KA3510A       4.62       113.02       99-07-05 16:50       3       31       365:23       0.08       1         KA3510A       4.62       113.02       99-07-05 15:25       3       41       385:61       0.18       -1         KA3510A       4.52       113.02       99-07-05 15:25       3       41       385:61       0.18       -1         KA3510A       4.52       113.02       99-09-01 40:83       3       51       384:11       384.01       4.74       -1         KA3510A       4.52       113.02       99-09-18 21:55       3       61       383:09       383:09       -0.39       -1         KA3510A       4.52       113.02       99-09-18 21:55       1       00       282:60       -22       -       -         KA3536G       0.30       30.01       99-07-02 21:25       1       21       3005:8       306:84       -       -         KA3536G	KA3510A	4.52	113.02	99-06-30 08:00	3	20	3868 7	386.87	0.00				
KA3510A       4.52       113.02       99-07.05 ft 50       3       30       3962.4       386.24       0.06       1         KA3510A       4.52       113.02       99-07.15 ft 5.25       3       41       33563.1       365.32       0.06       1	KA3510A	4.52	113.02	99-07-02 21:25	3	21	3865.4	386.54	-0.33	-1			······
KA3510A       4.52       113.02       99-07-10 11:00       3       41       3859.2       386.32       0.08       1         KA3510A       4.52       113.02       99-07-15 15:25       3       41       385.9       385.9       -       -       -         KA3510A       4.52       113.02       99-07-15 15:25       3       41       385.81       365.81       -0.18       -1       -         KA3510A       4.52       113.02       99-00-14 08:30       3       50       3847.4       383.47       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - <t< td=""><td>KA3510A</td><td>4.52</td><td>113.02</td><td>99-07-05 16:50</td><td>3</td><td>30</td><td>3862.4</td><td>386.24</td><td></td><td></td><td></td><td></td><td></td></t<>	KA3510A	4.52	113.02	99-07-05 16:50	3	30	3862.4	386.24					
KA3510A       4.52       113.02       09-07-13 10:00       3       40       385.99       985.99       1       1         KA3510A       4.52       113.02       09-06-26 13:05       3       41       385.81       -0.18       -1       1         KA3510A       4.52       113.02       09-06-26 13:05       3       50       384.74       384.74       -1       1         KA3510A       4.52       113.02       09-06-14 (08:0)       3       60       383.09       -0.39       -1       1         KA3510A       4.52       113.02       09-06-15 (00:0)       3       62       384.01       -0.39       -1       1         KA3510A       4.52       113.02       09-06-15 (00:0)       1       00       292.60       -       -       -         KA3530G       0.30       30.01       99-06-19 (7.55       1       10       307.10       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	KA3510A	4.52	113.02	99-07-08 11:30	3	31	3863.2	386.32	0.08	1			
KA3510A       4.52       113.02       99-08-2613:05       3       41       388.71       386.71       -1       -1         KA3510A       4.52       113.02       99-08-2613:05       3       50       384.74       384.74       -1	KA3510A	4.52	113.02	99-07-13 10:00	3	40	3859.9	385.99					
KA3510A         4.52         113.02         99-09-51305         3         50         3847.4         384.74         Image: Constraint of the state of the stat	KA3510A	4.52	113.02	99-07-15 15:25	3	41	3858.1	385.81	-0.18	-1			
KA3510A       4.52       113.02       99-09-014.08.30       3       51       384.01       -0.74       -1          KA3510A       4.52       113.02       99-09-18.21.55       3       661       383.09       383.47             KA3510A       4.52       113.02       99-12-1100:00       3       62       384.29 <t< td=""><td>KA3510A</td><td>4.52</td><td>113.02</td><td>99-08-26 13:05</td><td>3</td><td>50</td><td>3847.4</td><td>384.74</td><td></td><td></td><td></td><td></td><td></td></t<>	KA3510A	4.52	113.02	99-08-26 13:05	3	50	3847.4	384.74					
KA3510A       4.52       113.02       99-09-18 21:55       3       61       383.09       383.09       -0.39       -1         KA3510A       4.52       113.02       99-09-18 21:55       3       61       383.09       383.09       -0.39       -1       -1         KA3510A       4.52       113.02       99-06-18 21:55       3       61       383.09       383.09       -0.39       -1       -1         KA3539G       0.30       30.01       99-06-150 0:00       1       00       2928.0       -2       -2       -1       -2         KA3539G       0.30       30.01       99-06-19 17.55       1       10       306.34       306.34       -0.29       -1       -1         KA3539G       0.30       30.01       99-07-02 12.5       1       21       3063.4       306.34       -0.29       -1         KA3539G       0.30       30.01       99-07-02 12.5       1       21       3063.28       -1.06       -1       -1         KA3539G       0.30       30.01       99-07-08 11.30       1       31       304.11       304.11       -0.37       -1       -1         KA3539G       0.30       30.01       99-07-13 10:00	KA3510A	4.52	113.02	99-09-01 14:08	3	51	3840.1	384.01	-0.74	-1			
KA3510A       4.52       113.02       99-09-18 21:55       3       61       383.09       384.29       -0.39       -1         KA3510A       4.52       113.02       99-12-01 00:00       3       62       384.29       384.29	KA3510A	4.52	113.02	99-09-14 08:30	3	60	3834.7	383.47					
Kastava         4.32         113.02         99-12:01 00:00         3         62         384.29             KA3539G         0.30         30.01         99-06-19 17:55         1         10         307:10               KA3539G         0.30         30.01         99-06-22 1:22         1         11         3068.11         306.81         -0.29         .1            KA3539G         0.30         30.01         99-06-22 1:25         1         211         3052.8         305.28              KA3539G         0.30         30.01         99-07-08 11:30         1         30         3052.8         305.28               KA3539G         0.30         30.01         99-07-08 11:30         1         40         304.11         304.01         -0.37         .1            KA3539G         0.30         30.01         99-07-08 11:30         1         50         296.90         296.90                    .	KA3510A	4.52	113.02	99-09-18 21:55	3	61	3830.9	383.09	-0.39	-1			
KA3539G         0.30         30.01         99-06-15 00:00         1         00         292.60         292.60           KA3539G         0.30         30.01         99-06-221:32         1         10         307.10         307.10	KAJSTUA	4.52	113.02	99-12-01 00:00	3	62	3842.9	384.29					
KA3539G       0.30       30.01       99-06-19 1/55       1       00       292.60       292.60       292.60         KA3539G       0.30       30.01       99-06-17/55       1       10       307.10          KA3539G       0.30       30.01       99-06-30.08:00       1       20       3063.4       306.81       -0.29       -1         KA3539G       0.30       30.01       99-07-02 11/25       1       21       3065.28       305.28       -1.06       -1         KA3539G       0.30       30.01       99-07-03 11/30       1       31       304.91       -0.37       -1         KA3539G       0.30       30.01       99-07-08 11/30       1       31       304.91       -0.37       -1         KA3539G       0.30       30.01       99-07-18 11/30       1       31       304.91       -0.37       -1         KA3539G       0.30       30.01       99-07-16 11/30       1       50       296.90          KA3539G       19.30       30.01       99-07-16 11/30       1       50       296.90           KA3539G       19.30       30.01       99-09-140.08       1       61	KA2520C	0.20	20.04	00.00.45.00.05									
KA3539G       0.30       30.01       99-06-22       1       10       307/10       307/10         KA3539G       0.30       30.01       99-06-30       08:00       1       20       3063.4       306.34	KA3539G	0.30	30.01	99-06-15 00:00	1	00	2926.0	292.60					
No.500         0.500         0.500         0.500         0.500         0.500         0.500         1         1         1         1         1         1         0.500         1.502         1.102         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500         1.500 <th< td=""><td>KA3539G</td><td>0.30</td><td>30.01</td><td>99-06-19 17:55</td><td></td><td>10</td><td>3071.0</td><td>307.10</td><td></td><td></td><td></td><td></td><td></td></th<>	KA3539G	0.30	30.01	99-06-19 17:55		10	3071.0	307.10					
KA3539G         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	KA3539G	0.30	30.01	99-06-30 08:00	1	11	3068.1	306.81	-0.29	-1	· · · · · · · · · · · · · · · · · · ·		
KA3539G         0.30         0.00 + 0.2 (1.5)         1         21         305.8         305.8         -1.06         -1           KA3539G         0.30         30.01         99-07-08 11:30         1         31         3049.1         304.91         -0.37         -1           KA3539G         0.30         30.01         99-07-08 11:30         1         31         3049.1         304.91         -0.37         -1           KA3539G         0.30         30.01         99-07-08 11:30         1         40         3041.1         304.01         -0.37         -1           KA3539G         0.30         30.01         99-09-114:08         1         51         2293.2         29.23         -3.97         -1           KA3539G         19.30         30.01         99-09-014:08.30         1         60         2918.1         291.81         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -	KA3539G	0.30	30.01	99-07-02 21:25		20	3053.4	305.34	4.00				
KA3539G         0.30         0.01         9.07.08 11:30         1         30         303.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8         305.2 8 </td <td>KA3539G</td> <td>0.30</td> <td>30.01</td> <td>99-07-05 16:50</td> <td>+</td> <td>21</td> <td>2052.0</td> <td>305.28</td> <td>-1.06</td> <td>-1</td> <td></td> <td></td> <td></td>	KA3539G	0.30	30.01	99-07-05 16:50	+	21	2052.0	305.28	-1.06	-1			
KA3539G       0.30       30.01       99-07-13 10:00       1       40       304.11       304.11	KA3539G	0.30	30.01	99-07-08 11:30		30	3049.1	303.20	0.97				
KA3539G       0.30       30.01       99-07-15 15:25       1       41       3040.1       3040.1       -0.10       -1         KA3539G       19.30       30.01       99-08-26 13:05       1       50       2969.0       296.90       -1       -1         KA3539G       19.30       30.01       99-09-01 14:08       1       51       2929.3       292.93       -3.97       -1         KA3539G       19.30       30.01       99-09-01 14:08       1       60       2918.1       291.81	KA3539G	0.30	30.01	99-07-13 10:00	1	40	3041 1	304.51	-0.37	-1			
KA3539G       19.30       30.01       99-08-26 13:05       1       50       2969.0       2060       1         KA3539G       19.30       30.01       99-09-01 14:08       1       51       2929.3       292.93       -3.97       -1       1         KA3539G       19.30       30.01       99-09-01 14:08       1       51       2929.3       292.93       -3.97       -1       1         KA3539G       19.30       30.01       99-09-01 40:30       1       60       2918.1       291.81       1       1       51       290.37       -1.43       -1       1       1       1       1       50       290.37       -1.43       -1       1       1       1       1       1       50       290.37       -1.43       -1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       <	KA3539G	0.30	30.01	99-07-15 15:25	1	41	3040 1	304.01	-0 10	-1			
KA3539G       19.30       30.01       99-09-01 14:08       1       51       2929.3       292.93       -3.97       -1         KA3539G       19.30       30.01       99-09-14 08:30       1       60       2918.1       291.81	KA3539G	19.30	30.01	99-08-26 13:05	1	50	2969.0	296.90	-0.10				
KA3539G       19.30       30.01       99-09-14 08:30       1       60       2918.1       291.81           KA3539G       19.30       30.01       99-09-18 21:55       1       61       2903.7       290.37       -1.43       -1          KA3539G       19.30       30.01       99-09-18 21:55       1       61       2903.7       290.37       -1.43       -1          KA3539G       19.30       30.01       99-09-18 21:55       1       62       266.78       266.78 <td>KA3539G</td> <td>19.30</td> <td>30.01</td> <td>99-09-01 14:08</td> <td>1</td> <td>51</td> <td>2929.3</td> <td>292.93</td> <td>-3.97</td> <td>-1</td> <td></td> <td></td> <td></td>	KA3539G	19.30	30.01	99-09-01 14:08	1	51	2929.3	292.93	-3.97	-1			
KA3539G       19.30       30.01       99-09-18 21:55       1       61       2903.7       290.37       -1.43       -1         KA3539G       19.30       30.01       99-12-01 00:00       1       62       2667.8       266.78	KA3539G	19.30	30.01	99-09-14 08:30	1	60	2918.1	291.81					
KA3539G       19.30       30.01       99-12-01 00:00       1       62       2667.8       2667.8	KA3539G	19.30	30.01	99-09-18 21:55	1	61	2903.7	290.37	-1.43	-1			
KA3539G         9.80         18.30         99-08-26 13:05         2         50         296.89	KA3539G	19.30	30.01	99-12-01 00:00	1	62	2667.8	266.78					
KA3539G       9.80       18.30       99-08-26 13.05       2       50       296.89       296.89           KA3539G       9.80       18.30       99-09-01 14:08       2       51       292.93       292.93       -3.97       -1          KA3539G       9.80       18.30       99-09-14:08:30       2       60       2918.0       291.80             KA3539G       9.80       18.30       99-09-18:21:55       2       61       2903.7       290.37       -1.43       -1          KA3539G       9.80       18.30       99-09-18:21:55       2       61       2903.7       290.37       -1.43       -1          KA3539G       9.80       18.30       99-09-18:21:55       2       61       2903.7       290.37       -1.43       -1          KA3539G       1.30       8.80       99-0.90.12       2       266.7       266.77       266.77                        <													
KA3539G       9.80       18.30       99-09-01 14:08       2       51       2929.3       292.93       -3.97       -1         KA3539G       9.80       18.30       99-09-14 08:30       2       60       2918.0       291.80	KA3539G	9.80	18.30	99-08-26 13:05	2	50	2968.9	296.89					
KA3539G       9.80       18.30       99-09-14 08:30       2       60       2918.0       291.80	KA3539G	9.80	18.30	99-09-01 14:08	2	51	2929.3	292.93	-3.97	-1			
KA3539G       9.80       18.30       99-09-18 21:55       2       61       290.37       290.37       -1.43       -1         KA3539G       9.80       18.30       99-12-01 00:00       2       62       2667.7       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       266.77       278.82       278.82       278.82       278.82       278.82       278.82       278.93       277.03       -7.79       -1       278.93       279.03       -7.79       -1       278.93       269.95       269.95       269.95       269.95       269.95       269.95       10       278.82       214.45       255.50       -1       278.93       214.45       214.45       255.50       -1       278.93       278.93       214.45       214.45       214.45       214.45       214.45       214.4	KA3539G	9.80	18.30	99-09-14 08:30	2	60	2918.0	291.80					
KA3539G       9.80       18.30       99.12-01 00:00       2       62       2667.7       266.77       266.77         KA3539G       1.30       8.80       99-08-26 13:05       3       50       2788.2       278.82           KA3539G       1.30       8.80       99-09-01 14:08       3       51       2710.3       271.03       -7.79       -1         KA3539G       1.30       8.80       99-09-14:08:30       3       60       2699.5       266.95           KA3539G       1.30       8.80       99-09-18:21:55       3       61       2144.5       214.45       -55.50       -1         KA3539G       1.30       8.80       99-12-01 00:00       3       62       1997.5       199.75           KA3542001       0.30       20.04       50.05.65.00       -1	KA3539G	9.80	18.30	99-09-18 21:55	2	61	2903.7	290.37	-1.43	-1			
KA3539G         1.30         8.80         99-08-26 13:05         3         50         2788.2         278.82            KA3539G         1.30         8.80         99-09-01 14:08         3         51         2710.3         271.03         -7.79         -1            KA3539G         1.30         8.80         99-09-01 14:08         3         60         2699.5         269.95              KA3539G         1.30         8.80         99-09-18 21:55         3         61         2144.5         214.45         -55.50         -1           KA3539G         1.30         8.80         99-12-01 00:00         3         62         1997.5         199.75	KA3539G	9.80	18.30	99-12-01 00:00	2	62	2667.7	266.77			_		
KA3539G         1.30         8.80         99-09-26 13:05         3         50         278.2         278.2	KA25200	1 20	0.00										
KA3539G       1.30       8.80       99-09-14 (8:30)       3       51       2710.3       271.03       -7.79       -1         KA3539G       1.30       8.80       99-09-14 (8:30)       3       60       2699.5       269.95           KA3539G       1.30       8.80       99-09-18 21:55       3       61       2144.5       214.45       -55.50       -1         KA3539G       1.30       8.80       99-12-01 00:00       3       62       1997.5       199.75           KA3542001       0.30       20.04       00.0545 00.00       1       1	KA3539G	1.30	8.80	99-08-26 13:05	3	50	2788.2	278.82					
KA3539G         1.30         8.80         99-09-18 21:55         3         61         2144.5         214.45         -55.50         -1           KA3539G         1.30         8.80         99-09-18 21:55         3         61         2144.5         214.45         -55.50         -1           KA3539G         1.30         8.80         99-12-01 00:00         3         62         1997.5         199.75         -1	KA3539G	1.30	8.80	99-09-01 14:08	3	51	2710.3	271.03	-7.79	-1			
KA3539G         1.30         8.80         99-02-16 21:35         3         61         2144.5         214.45         -55.50         -1           KA3539G         1.30         8.80         99-12-01 00:00         3         62         1997.5         199.75	KA3539G	1.30	8.80	99-09-14 08:30	3	60	2699.5	269.95					
KA3542C01 0.30 20.04 00.00 45 00.00 13 62 1997.5 199.75	KA3539G	1.30	0.00	99-09-18 21:55	3	61	2144.5	214.45	-55.50	-1			
Ka3542G01 0.30 20.04 00.05 45 00.00		1.00	0.00	35-12-01 00.00	3	62	1997.5	199.75					
	KA3542G01	0.30	30.04	99-06-15 00:00			2725.0	272.50					
KA3542G01 0.30 30.04 99.06.19 17:55 1 10 372.6 372.6	KA3542G01	0.30	30.04	99-06-19 17:55	1	10	3751 0	375 49					
KA3542G01 0.30 30.04 99-06-22 21:32 1 11 3752.0 375.10	KA3542G01	0.30	30.04	99-06-22 21:32		11	3752.0	375 20	0.02				
KA3542G01 0.30 30.04 99-06-30 08:00 1 20 37520 07.02 1	KA3542G01	0.30	30.04	99-06-30 08:00	1	20	3752.0	375.20	0.02				
KA3542G01 0.30 30.04 99-07-02 21:25 1 21 3748 0.374 8 0.35 4	KA3542G01	0.30	30.04	99-07-02 21:25	1	21	3748.6	374 86	-0.35				
KA3542G01 0.30 30.04 99-07-05 16:50 1 30 3746.3 374.63 374.63	KA3542G01	0.30	30.04	99-07-05 16:50	1	30	3746.3	374 63					
KA3542G01 0.30 30.04 99-07-08 11:30 1 31 3746.5 374.65 0.02 1	KA3542G01	0.30	30.04	99-07-08 11:30	1	31	3746.5	374,65	0.02	1			
KA3542G01 0.30 30.04 99-07-13 10:00 1 40 3743.4	KA3542G01	0.30	30.04	99-07-13 10:00	1	40	3743.4	374.34		_ · _			

Pressure in i	boreholes	durina dril	ling of deposition	holes			[		Чb		1	
Bhname	Secup	seclow	Date time	Bh sect no	Pinder	P (kPa)	P (m)	dP(X1-X0) (m)	.1=.1=+			
KA3542G01	0.30	30.04	99-07-15 15:25	1	41	3741 2	374 12	0.22	-1			
KA3542G01	25.80	30.04	00.08.26 13:05	1	50	2921 6	379.12	+0.23	-,			
KA3542C01	25.00	30.04	99-00-20 13.03		50	3031.0	363.16				+	
KA3542001	25.00	30.04	99-09-01 14:08	1	51	3823.2	382.32	-0.84	-1			
KA3542G01	25.60	30.04	99-09-14 08:30	<u> </u>	60	3816.0	381.60					
KA3542G01	25.80	30.04	99-09-18 21:55	1	61	3812.5	381.25	-0.35	-1			
KA3542G01	25.80	30.04	99-12-01 00:00	1	62	3826.5	382.65					
		ļ	· · · · · · · · · · · · · · · · · · ·									
KA3542G01	8.80	24.80	99-08-26 13:05	2	50	3731.6	373.16					
KA3542G01	8.80	24.80	99-09-01 14:08	2	51	3722.6	372.26	-0.90	-1			
KA3542G01	8.80	24.80	99-09-14 08:30	2	60	3715.9	371.59				1	
KA3542G01	8.80	24.80	99-09-18 21:55	2	61	3711.8	371.18	-0.41	-1	1		1
KA3542G01	8.80	24.80	99-12-01 00:00	2	62	3715.7	371.57					1
											+	
KA3542G01	1.30	7.80	99-08-26 13:05	3	50	1227 4	122 74					
KA3542G01	1 30	7.80	99.09.01 14:08	2	 E4	1204.2	122.74	0.24				
KA3542G01	1 30	7.80	99.09.14.08:30	3	60	1204.3	120.43	-2.31	-1	ļ		
KA3542G01	1 30	7.80	00.00 18 21-55		0	1107.0	110.70	0.70				ł
KA3542C01	1.00	7.00	99-09-10 21.00	3	01	1100.8	116.08	-2.70	-1			
1010342001	1.30	7.00	99-12-01 00:00	3	62	1106.9	110.69				ļ	
										· ·	L	
KA3542GUZ	0.30	30,01	99-06-15 00:00	1	00	3009.5	300.95					
KA3542G02	0.30	30.01	99-06-19 17:55	1	10	3211.2	321.12					
KA3542G02	0,30	30.01	99-06-22 21:32	1	-11	3206.9	320.69	-0.43	-1			
KA3542G02	0.30	30.01	99-06-30 08:00	1	20	3201.8	320.18				T	
KA3542G02	0.30	30.01	99-07-02 21:25	1	21	3192.6	319.26	-0.92	-1			1
KA3542G02	0.30	30.01	99-07-05 16:50	1	30	3190.7	319.07				1	1
KA3542G02	0.30	30.01	99-07-08 11:30	1	31	3186.8	318.68	-0.39	-1		1	
KA3542G02	0.30	30.01	99-07-13 10:00	1	40	3179 7	317.97					
KA3542G02	0.30	30.01	99-07-15 15:25	1	41	3177 2	317.72	-0.25				
KA3542G02	22.30	30.01	99-08-26 13:05	· · ·	50	3029.1	302 04	-0.20	-,		+	<u>+-</u>
KA3542G02	22.30	30.01	99-09-01 14-08	· ·	 61	3023.1	303.24	0.67	4			
KA3542G02	22.00	30.01	00.00.14.09:20			3023.4	302.34	-0.57	-1			
KA3542C02	22.00	30.01	99-09-14 00.30		60	3013.6	301.36				·	
KA3542G02	22.30	30.01	99-09-18 21:55	1	51	3006.4	300.64	-0.72	-1			
KA3542G02	22.30	30.01	99-12-01 00:00	1	62	2948.1	294.81					
KA3542G02	13.80	21.30	99-08-26 13:05	2	50	3183.2	318.32					
KA3542G02	13.80	21.30	99-09-01 14:08	2	51	3176.1	317.61	-0.72	-1			
KA3542G02	13.80	21.30	99-09-14 08:30	2	60	3182.2	318.22					
KA3542G02	13.80	21.30	99-09-18 21:55	2	61	3172.6	317.26	-0.96	-1			
KA3542G02	13.80	21.30	99-12-01 00:00	2	62	3163.2	316.32					
KA3542G02	8.80	12.80	99-08-26 13:05	3	50	3165.8	316.58					
KA3542G02	8.80	12.80	99-09-01 14:08	3	51	3154.3	315.43	-1 14	-1			
KA3542G02	8.80	12.80	99-09-14 08:30	3	60	3150.8	315.08	-1.14	-1			
KA3542G02	8.80	12 80	99-09-18 21:55	3	61	3134.5	313.00	1.62				
KA3542G02	8.80	12.80	99-12-01-00:00	3	62	3134.5	313.43	-1.03	-1			
		.2.00	00 12-01 00.00		UZ	3038.1	303.01					
KA3542G02	1 30	7.80	00.09.26.42.05		50							
KA3542C02	1 30	7.00	00 00 01 14:08		50	3094.0	309.40					
KA3542C02	1.30	7.80	99-09-01 14:08	4	51	3044.8	304.48	-4.93	1			
KA3542G02	1.30	7.80	99-09-14 08:30	4	60	3034.1	303.41					
KA3542G02	1.30	7.80	99-09-18 21:55	4	61	3015.5	301.55	-1.86	-1			
KA3542G02	1.30	7.80	99-12-01 00:00	4	62	2833.1	283.31					
100000000000000000000000000000000000000												
KA3544G01	0.30	12.00	99-06-15 00:00	1	00	2796.4	279.64					
KA3544G01	0.30	12.00	99-08-19 17:55	1	10	2944.5	294.45					
KA3544G01	0.30	12.00	99-06-22 21:32	1	11	2940.0	294.00	-0.45	-1			
KA3544G01	0.30	12.00	99-06-30 08:00	1	20	2936.1	293.61					
KA3544G01	0.30	12.00	99-07-02 21:25	1	21	2925.7	292.57	-1.04	-1			
KA3544G01	0.30	12.00	99-07-05 16:50	1	30	2925.1	292.51					
KA3544G01	0.30	12.00	99-07-08 11:30	1	31	2922.4	292.24	-0.27	-1			
KA3544G01	0.30	12.00	99-07-13 10:00	1	40	2913.6	291 36					
KA3544G01	0.30	12.00	99-07-15 15:25	1	41	2913.0	291 30	-0.06				
KA3544G01	6.30	12.00	99-08-26 13:05	1	50	2010.0	284.20	-0.00				
KA3544G01	6 30	12.00	99.00.01 14.09	1	 	2040.0	204.00					
KA3544C01	F 30	12.00	00 00 14 00 00		01	2000.0	200.00	-4.38	-1			
KA3544G01	6 20	12.00	00 00 19 04 FF		00	2182.6	218.26					
KA3544C01	6.20	12.00	55-V5-10 21:00		01	2068.1	256.81	-21.45	-1			
10-0044001	0.50	12.00	99-12-01 00:00	1	62	2345.4	234.54					
KA2544004	1.00											
KA3544G01	1.30	5.30	99-08-26 13:05	2	50	2151.2	215.12					
KA3544G01	1.30	5.30	99-09-01 14:08	2	51	2124.8	212.48	-2.64	-1			
KA3544G01	1.30	5.30	99-09-14 08:30	2	60	2109.9	210.99					
KA3544G01	1.30	5.30	99-09-18 21:55	2	61	1041.4	104.14	-106.84	-1			
KA3544G01	1.30	5.30	99-12-01 00:00	2	62	1056.4	105.64					
										· · · · · · · · · · · · · · · · · · ·		
KA3546G01	0.30	12.00	99-06-15 00:00	1	00	422.7	42.27					
KA3546G01	0.30	12.00	99-06-19 17:55	1	10	439.5	43.95					
KA3546G01	0.30	12.00	99-06-22 21:32	1	11	415.7	41 57	-2 38	-1			
KA3546G01	0.30	12.00	99-06-30 08:00	1	20	411.6	41 16	2.50	-,			
KA3546G01	0.30	12.00	99-07-02 21:25		21	411.0	41.10	0.06				
KA3546G01	0.30	12.00	99-07-05 16:50	+	20	410.0	41.00	-0.00	-1			[
KA3546C01	0.00	12.00	00.07.09 (4:00		30	410.2	41.02					
	0.00	12,00	35-07-00 11:30	1	31	411.6	41.15	0.14	1			

Pressure in	boreholes	durino dril	ling of deposition	holes					dP		1	T
Bhname	Secup	seclow	Date time	Bh sect no	Pindex	P (kPa)	P (m)	dP(X1-X0) (m)	-1=1=+			
KA3546G01	0.30	12.00	99-07-13 10:00	1	40	407.5	40.75					
KASEAECOA	0.00	12.00	00.07.45.45.05		40	407.5	40.75	0.00	· · ·			
KA3546G01	0.30	12.00	99-07-15 15:25		41	407.3	40.73	-0.02	-1			
KA3546G01	0.00	12.00	99-08-26 13:05	1	50	213.3	21.33					
KA3546G01	6.80	12.00	99-09-01 14:08	1	51	196.5	19.65	-1.68	-1		···	
KA3546G01	6.80	12.00	99-09-14 08:30	1	60	195.3	19.53					
KA3546G01	6.80	12.00	99-09-18 21:55	1	61	140.5	14.05	-5.48	-1			l
KA3546G01	6.80	12.00	99-12-01 00:00	1	62	119.2	11.92				1	
KA3546G01	1.30	5.80	99-08-26 13:05	2	50	262.9	26.29					
KA3546G01	1.30	5.80	99-09-01 14:08	2	51	254.6	25.46	-0.84	-1		1	
KA3546G01	1.30	5.80	99-09-14 08:30	2	60	236.6	23.66					1
KA3546G01	1.30	5.80	99-09-18 21:55	2	61	120.4	12.04	-11.61	-1			1
KA3546G01	1.30	5.80	99-12-01 00:00	2	62	62.8	6.28					
KA3548A01	15.00	30.00	99-06-15 00:00	1	00	3854 1	385 41					
KA3548A01	15.00	30.00	99-06-19 17:55	1	10	3865.2	386.52					
KA3548401	15.00	30.00	00.06.22.21.22	1	10	2965.9	296 59	0.06	•			
KA3548401	15.00	20.00	99-00-22 21.32		20	2000.0	300.30	0.00			1	
KADEABADA	15.00	30.00	99-00-30 08.00		20	3000.0	300.00	1				
KASS46AUT	15.00	30.00	99-07-02 21:25	1	21	3863.3	386.33	-0.33	-1		l	
KA3548AU1	15.00	30.00	99-07-05 16:50	1	30	3861.3	386.13					
KA3548A01	15.00	30.00	99-07-08 11:30	1	31	3861.9	386.19	0.06	1			
KA3548A01	15.00	30.00	99-07-13 10:00	1	40	3859.7	385.97					
KA3548A01	15.00	30.00	99-07-15 15:25	1	41	3857.8	385.78	-0.18	-1			
KA3548A01	15.00	30.00	99-08-26 13:05	1	50	3845.8	384.58					
KA3548A01	15.00	30.00	99-09-01 14:08	1	51	3837.6	383.76	-0.82	-1			
KA3548A01	15.00	30.00	99-09-14 08:30	1	60	3832.1	383.21					
KA3548A01	15.00	30.00	99-09-18 21:55	1	61	3827.4	382.74	-0.47	-1			
KA3548A01	15.00	30.00	99-12-01 00:00	1	62	3839.6	383.96					
												1
KA3548A01	10.00	14.00	99-06-15 00:00	2	00	3743 3	374.33		··· ·· ·	1	1	
KA3548A01	10.00	14.00	99-06-19 17:55	2	10	3768.8	376 88				1	
KA3548A01	10.00	14.00	99-06-22 21:32	2	11	3760.3	376.00	0.04	4			
KA3548A01	10.00	14.00	00 08 20 09:00	2	20	3709,3	370.93	0.04				
KA3548A01	10.00	14.00	99-06-30 08:00	2	20	3769.5	376,95		<u> </u>			
KA3546AU1	10.00	14.00	99-07-02 21:25	2	21	3766.2	376.62	-0.33	-1			
KA3548A01	10.00	14.00	99-07-05 15:50	2	30	3763.9	376.39					
KA3548A01	10.00	14.00	99-07-08 11:30	2	31	3764.8	376,48	0.08	1			
KA3548A01	10.00	14.00	99-07-13 10:00	2	40	3761.9	376.19					
KA3548A01	10.00	14.00	99-07-15 15:25	2	41	3760.0	376.00	-0.18	-1			
KA3548A01	10.00	14.00	99-08-26 13:05	2	50	3760.5	376.05					
KA3548A01	10.00	14.00	99-09-01 14:08	2	51	3752.1	375.21	-0.84	-1			
KA3548A01	10.00	14.00	99-09-14 08:30	2	60	3746.3	374.63					
KA3548A01	10.00	14.00	99-09-18 21:55	2	61	3741.6	374.16	-0.47	-1			
KA3548A01	10.00	14.00	99-12-01 00:00	2	62	3747.2	374.72					
KA3548G01	0.30	12.00	99-06-15 00:00	1	00	144.9	14.49					
KA3548G01	0.30	12.00	99-06-19 17:55	1	10	147.4	14.74					
KA3548G01	0.30	12.00	99-06-22 21:32		11	145.6	14.58	0.18	4			
KA3548G01	0.30	12.00	99.05.30.08:00	1	20	145.6	14.56	-0.10	-1			
KA3548G01	0.30	12.00	99-00-30 08.00		20	143.0	14.00	0.40	4			
KA3548C01	0.30	12.00	99-07-02 21.25			144.5	14.45	-0.10	-1			
KA3548001	0.30	12.00	99-07-05 10:50	1	30	144./	14.4/					
KA3540000	0.30	12.00	99-07-08 11:30		31	145.8	14.58	0.10	1			
NA3548G01	0.30	12.00	99-07-13 10:00	1	40	143.9	14.39					
KA3548G01	0.30	12.00	99-07-15 15:25	1	41	143.5	14.35	-0.04	-1		ļ	
KA3548G01	0.30	12.01	99-08-26 13:05	1	50	104.2	10.42					
KA3548G01	0.30	12.01	99-09-01 14:08	1	51	103.8	10.38	-0.04	-1			
KA3548G01	0.30	12.01	99-09-14 08:30	1	60	101.7	10.17					
KA3548G01	0.30	12.01	99-09-18 21:55	1	61	101.3	10.13	-0.04	-1			
KA3548G01	0.30	12.01	99-12-01 00:00	1	62	88.8	8.88					
KA3550G01	0.30	12.03	99-06-15 00:00	1	00	97.1	9.71					
KA3550G01	0.30	12.03	99-06-19 17:55	1	10	96.1	9.61					
KA3550G01	0.30	12.03	99-06-22 21:32	1	11	96.7	9.67	0.06	1			
KA3550G01	0.30	12.03	99-06-30 08:00	1	20	95.7	9.57					
KA3550G01	0.30	12.03	99-07-02 21:25	1	21	96.9	9.69	0.12	1			
KA3550G01	0.30	12.03	99-07-05 16·50	1	30	95.1	9.51	12				
KA3550G01	0.30	12.03	99-07-08 11:30	1	31	98.5	9.65	0.14	4			
KA3550G01	0.30	12.03	99-07-13 10:00	1	40	05.3	0.53	0.14	5			
KA3550G01	0.30	12 03	99-07-15 15:35		40	04.7	0.47	0.06				
KA3550C01	6.00 A 20	12.00	00 00 00 40.05			54./	9.4/	-0.06	-1			
KASSECON	0.30	12.03	99-00-20 13:05	1	50	83.3	8.33					
KASSSOGUT	0.30	12.03	99-09-01 14:08	1	51	41.6	4.16	-4.17	-1			
KA3550G01	6.30	12.03	99-09-14 08:30	1	60	49.0	4.90					
KA3550G01	6.30	12.03	99-09-18 21:55	1	61	80.5	8.05	3.15	1			
KA3550G01	6.30	12.03	99-12-01 00:00	1	62	49.0	4.90					
					[							
KA3550G01	1.30	5.30	99-08-26 13:05	2	50	145.1	14.51					
KA3550G01	1.30	5.30	99-09-01 14:08	2	51	154.9	15.49	0.98	1			
KA3550G01	1.30	5.30	99-09-14 08:30	2	60	95.7	9.57					-
KA3550G01	1.30	5.30	99-09-18 21:55	2	61	114.1	11.41	1.84	1			
KA3550G01	1.30	5.30	99-12-01 00:00	2	62	51.3	5.13					

Pressure in I	boreholes	during dril	ling of deposition	holes					dP			1
Bhname	secup	seclow	Date time	Bh sect_no	Pindex	P (kPa)	P (m)	dP(X1-X0) (m)	-1=-;1=+			
KA3552G01	0.30	12.01	99-06-15 00:00	1	00	262.9	26.29			1		
KA3552G01	0.30	12.01	99-06-19 17:55	1	10	263.5	26.35			†		
KA3552G01	0.30	12.01	99-06-22 21:32	1	11	261.6	26.16	-0.18	-1		+	
KA3552G01	0.30	12.01	99-06-30 08:00	1	20	261.6	26.16					
KA3552G01	0.30	12.01	99-07-02 21:25	1	21	261.6	26.16	0.00	1			
KA3552G01	0.30	12.01	99-07-05 16:50	1	30	262.3	26.23		· ·			
KA3552G01	0.30	12.01	99-07-08 11:30	1	31	263.1	26.20	0.08	1			
KA3552G01	0.30	12.01	99-07-13 10:00	1	40	260.4	26.04	0.00	·			
KA3552G01	0.30	12.01	99-07-15 15:25	1	41	259.2	25.92	-0.12	.1			
KA3552G01	8 80	12.01	99-08-26 13:05	1	50	663.2	68.32	-0.72		+		
KA3552G01	8 80	12.01	99-09-01 14:08	1	51	742.6	74.26	7.94		· · · · · · · · · · · · · · · · · · ·		
KA3552G01	8 80	12.01	99-09-14 08:30	1	60	590.4	58.04	1.54				+
KA3552G01	8.80	12.01	99-09-18 21:55	1	61	597.0	59.70	0.76	-			
KA3552G01	8.80	12.01	99 12 01 00:00		60	507.9	50.79	0.76				
1010302001	0.00	12.01	35-12-01 00.00	·····	62	505,1	50.51					
KA3552C01	4.05	7 90	00.09.06.12.05		50	005.4	AA 74			· · · · · · · · · · · · · · · · · · ·		
KA3552G01	4.05	7.00	99-00-20 13.00	2	50	235.4	23.54					
KA3552G01	4.05	7.00	99-09-01 14:08	2	51	149.6	14,96	-8.58	-1			
KA3552G01	4.05	7.00	99-09-14 08:30	2	60	142.5	14.25					
KA3552G01	4.05	7.80	99-09-18 21:55	2	61	144.1	14.41	0.16	1			L
KA3552G01	4.05	7.80	99-12-01 00:00	2	62	119.4	11.94					
					• • • • • • • • • • • • • • • • • • • •							
KA3552G01	1.30	3.05	99-08-26 13:05	3	50	225.7	22.57					
KA3552G01	1.30	3.05	99-09-01 14:08	3	51	525.2	52.52	29.95	1			
KA3552G01	1.30	3.05	99-09-14 08:30	3	60	239.2	23.92					
KA3552G01	1.30	3.05	99-09-18 21:55	3	61	272.9	27.29	3.37	1			
KA3552G01	1.30	3.05	99-12-01 00:00	3	62	169.7	16.97					
	L											
KA3554G01	0.30	30.01	99-06-15 00:00	1	00	3685.5	368.55					
KA3554G01	0.30	30.01	99-06-19 17:55	1	10	3692.8	369.28				1	
KA3554G01	0.30	30.01	99-06-22 21:32	1	11	3693.2	369.32	0.04	1			
KA3554G01	0.30	30.01	99-06-30 08:00	1	20	3691.8	369.18					
KA3554G01	0.30	30.01	99-07-02 21:25	1	21	3688.5	368.85	-0.33	-1			
KA3554G01	0.30	30.01	99-07-05 16:50	1	30	3685.5	368.55				1	
KA3554G01	0.30	30.01	99-07-08 11:30	1	31	3688.5	368.85	0.31	1			
KA3554G01	0.30	30.01	99-07-13 10:00	1	40	3683.6	368.36					
KA3554G01	0.30	30.01	99-07-15 15:25	1	41	3683.2	368.32	-0.04	-1			
KA3554G01	22.30	30.01	99-08-26 13:05	1	50	3828,1	382.81					
KA3554G01	22.30	30.01	99-09-01 14:08	1	51	3820.7	382.07	-0,74	-1			
KA3554G01	22.30	30.01	99-09-14 08:30	1	60	3815.0	381.50				1	
KA3554G01	22.30	30.01	99-09-18 21:55	1	61	3810.7	381.07	-0.43	-1			
KA3554G01	22.30	30.01	99-12-01 00:00	1	62	3823.2	382.32					
			-									
KA3554G01	12.30	21.30	99-08-26 13:05	2	50	3813.2	381 32					
KA3554G01	12.30	21.30	99-09-01 14:08	2	51	3804.2	380.42	-0.90	.1			
KA3554G01	12.30	21.30	99-09-14 08:30	2	60	3797 7	379 77	-0.30				
KA3554G01	12.30	21.30	99-09-18 21:55	2	61	3793.0	370 30	-0.47	1			
KA3554G01	12.30	21.30	99-12-01 00:00	2	62	3808.1	290.94	-0.47	-1			
		21.00	00-12-01 00.00	-	02	3000.1	300.01					
KA3554G01	1 30	11 30	99.08.26 13:05		50	1075.2	107.52					
KA3554G01	1 30	11.30	00.00.01 14:09	3	50	10/5.3	107.55					
KA3554G01	1 30	11.30	99-09-01 14.08		51	1000.2	108.02	0.49	1			
KA3554C01	1.00	11.30	99-09-14 00.30		00	10/4./	107.47					
KA3554001	1.30	11.30	99-09-18 21:55	3	61	10/5.3	107.53	0.06				
	1.30	11.30	99-12-01 00:00	3	62	1071.2	107.12					
KA3554000	0.00											
KA3554G02	0.30	30.01	99-06-15 00:00	1	00	3068.6	306.86					
KA2EE4000	0.30	30.01	99-06-19 17:55	1	10	3270.4	327.04					
KASEEAGOO	0.30	30.01	99-06-22 21:32	1	11	3266.7	326.67	-0.37	-1			
KA2554G02	0.30	30.01	99-06-30 08:00	1	20	3262.4	326.24				L	
NA3554G02	0.30	30.01	99-07-02 21:25	1	21	3254.8	325.48	-0.76	-1			
KA3554G02	0.30	30.01	99-07-05 16:50	1	30	3253.0	325.30					
KA3554G02	0.30	30.01	99-07-08 11:30	1	31	3250.1	325.01	-0.29	-1			
KA3554G02	0.30	30.01	99-07-13 10:00	1	40	3243.0	324.30					
KA3554G02	0.30	30.01	99-07-15 15:25	1	41	3241.1	324.11	-0.18	-1			
KA3554G02	22.30	30.01	99-08-26 13:05	1	50	3384.1	338.41					
KA3554G02	22.30	30.01	99-09-01 14:08	1	51	3373.2	337.32	-1.08	-1			
KA3554G02	22.30	30.01	99-09-14 08:30	1	60	3368.5	336.85					
KA3554G02	22.30	30.01	99-09-18 21:55	1	61	3361.0	336.10	-0.76	-1			
KA3554G02	22.30	30.01	99-12-01 00:00	1	62	3288.5	328.85					
				T								
KA3554G02	10.30	21.01	99-08-26 13:05	2	50	3179.8	317.98					
KA3554G02	10.30	21.01	99-09-01 14:08	2	51	3168.8	316.88	-1.11	-1			
KA3554G02	10.30	21.01	99-09-14 08:30	2	60	3166.5	316.65					
KA3554G02	10,30	21.01	99-09-18 21:55	2	61	3155.0	315.50	-1.15	-1			
KA3554G02	10.30	21.01	99-12-01 00:00	2	62	3037.9	303.79		1			
											·	
KA3554G02	1.30	9.30	99-08-26 13:05	3	50	3329.5	332.95					
KA3554G02	1.30	9.30	99-09-01 14:08	3	51	3342.0	334.20	1 25	1			
KA3554G02	1.30	9.30	99-09-14 08:30	3	60	3339.5	333.95		· · ·			
KA3554G02	1.30	9.30	99-09-18 21:55	3	R1	3336.0	333.60				├{	
KA3554G02	1.30	9.30	99-12-01 00:00		62	3264.0	335.00	-0.33				
		0.00	00.12-01.00.00	v	92	3204.9	320.49					

Pressure in t	oreholes	durina dril	ling of deposition	holes					dP	1	1	
Bhname	Secur	seclow	Date time	Bh sect no	Dinder	P (kPa)	P(m)	dP(X1-X0) (m)	-1=1=+	+	· · · · · · · · · · · · · · · · · · ·	
		3001011	Date diffe	511 3000 110	THILDEA	i (ki aj	. (,		,			
											ļ	
KA3557G	0.30	30.04	99-06-15 00:00	1	00	134.7	13.47					_
KA3557G	0.30	30.04	99-06-19 17:55	1	10	133.3	13.33					
KA3557G	0.30	30.04	99-06-22 21:32	1	11	135.3	13.53	0.20	1			
KA3557G	0.30	30.04	99-06-30 08:00	1	20	137.0	13.70				1	
KA35570	0.00	20.04	00.07.00.04.05		20	107.0	13.70			<u> </u>	+	
KA3557G	0.30	30.04	99-07-02 21:25	1	21	137.6	13.76	0.06	1			
KA3557G	0.30	30.04	99-07-05 16:50	1	30	136.3	13.63					
KA3557G	0.30	30.04	99-07-08 11:30	1	31	141.7	14.17	0.53	1			
KA3557G	0.30	30.04	99-07-13 10:00	1	40	140.0	14.00					
VA2EE7C	0.20	20.04	00.07 45 45:05			110.0	44.00	0.00				
A3337G	0.30	30.04	99-07-15 15:25		41	140.0	14.00	0.00	1	L		
KA3557G	0.30	30.04	99-08-26 13:05	1	50	139.2	13.92					
KA3557G	0.30	30.04	99-09-01 14:08	1	51	130.0	13.00	-0.92	-1		1	
KA3557G	0.30	30.04	99-09-14 08:30	1	60	133.1	13.31					
KA3557G	0.30	30.04	99-09-18 21:55	1	61	133.0	13 30	0.08	1			t
¥A35570	0.20	20.04	00 10 01 00:00			474.0	10.00	0.00	• • • • • • • • • • • • • • • • • • • •	<u> </u>		
104355713	0.30	30.04	99-12-01 00.00	1	02	1/1.3	17.13					
			ļ								1	
KA3563G01	9.30	30.00	99-06-15 00:00	1	00	1406.1	140.61					
KA3563G01	9.30	30.00	99-06-19 17:55	1	10	1392.8	139.28					
KA3563G01	9.30	30.00	99-06-22 21:32	1	11	1407 3	140.73	1.45	1	<u> </u>		·
KA3563C04	0.00	20.00	00.00.00.00			1407.0	140.70	1.45				
KA3303GU1	9.30	30.00	99-06-30 08:00	1	20	1394.3	139.43					
KA3563G01	9.30	30.00	99-07-02 21:25	1	21	1378.5	137.85	-1.57	-1			
KA3563G01	9.30	30.00	99-07-05 16:50	1	30	1393.8	139,38				1	
KA3563G01	9.30	30.00	99-07-08 11:30	1	31	1394.5	139.45	0.06	1			
KA3563G01	0.30	30.00	00.07.13 10.00	1	40	1200.4	120.04					
1010000001	0.00	00.00	38-07-13 10.00		40	1390.4	139.04					
NA3263GU1	9.30	30.00	99-0/-15 15:25	1	41	1385.1	138.51	-0.53	-1	Į		
KA3563G01	0.30	30.00	99-08-26 13:05	1	50	290.7	29.07					
KA3563G01	0.30	30.00	99-09-01 14:08	1	51	299.7	29.97	0.90	1			
KA3563G01	0.30	30.00	99-09-14 08:30	1	60	298.8	20.88					
KA3563C01	0.30	20.00	00 00 19 21-55		64	200.0	20.00	0.70				<u> </u>
100000001	0.30	30.00	99-09-10 21.00	1	01	291.3	29.13	-0.76	-1			
KA3563G01	0.30	30.00	99-12-01 00:00	1	62	266.3	26.63					
Ł												
KA3563G01	3.80	8.30	99-06-15 00:00	2	00	1406.7	140.67					
KA3563G01	3 80	8.30	99-06-19 17:55	2	10	1303.2	139 32					
KAREROCOM	2.00	0.00	00.00.00.04.00		10	1393.2	138.32					
KA3963GU1	3.80	8.30	99-06-22 21:32	2	11	1407.9	140.79	1.47	1		Į	
KA3563G01	3.80	8.30	99-06-30 08:00	2	20	1394.6	139.46					
KA3563G01	3.80	8.30	99-07-02 21:25	2	21	1379.1	137.91	-1.55	-1			
KA3563G01	3.80	8.30	99-07-05 16:50	2	30	1394.2	139 42					
KA3583C01	2 80	8.20	00.07.00.44.00			1004.2	100.42					
KA3563601	3.80	0.30	99-07-08 11:30		31	1395.0	139.50	0.08	1			
KA3563G01	3.80	8.30	99-07-13 10:00	2	40	1390.8	139.08				1	
KA3563G01	3.80	8.30	99-07-15 15:25	2	41	1385.4	138.54	-0.53	-1	l		
KA3563G01	1 30	2 80	99.06.15.00.00			227.7	77 77					
10000001	1.00	2.00	35-00-13 00.00	3		231.1	23.77					
KA3563G01	1.30	2.80	99-06-19 17:55	3	10	244.3	24.43			L		
KA3563G01	1.30	2.80	99-06-22 21:32	3	11	227.9	22.79	-1.64	-1	i	1	
KA3563G01	1.30	2.80	99-06-30 08:00	3	20	260.8	26.08					
KA3563G01	1.30	2.80	99-07-02 21:25	3	21	217.0	21.70	4.20				
KAREGOOM	1.00	2.00	00-07-02 21.20		21	217.5	21.79	-4.28			· · · · · · · · · · · · · · · · · · ·	
KA3003G01	1.30	2.80	99-07-05 16:50	3	30	225.0	22.50			ļ		
KA3563G01	1.30	2.80	99-07-08 11:30	3	31	230.8	23.08	0.57	1	ĺ	1	
KA3563G01	1.30	2.80	99-07-13 10:00	3	40	267.4	26.74					
KA3563G01	1.30	2.80	99-07-15 15 25	3	41	243.0	24 30	-2 43	-1			
						110.0	24.00	-2.40				
KA3566G01	20.80	30.01	99-06-15 00:00	1	00	2558.4	255.84					
KA3566G01	20.80	30.01	99-06-19 17:55	1	10	2799.0	279.90					
KA3566G01	20.80	30.01	99-06-22 21:32	1	11	2772.0	277.20	-2 70	-1			
KA3566G01	20.80	30.01	99-06-30 08-00	1	20	2743.6	274 35				· · · · · · · · · · · · · · · · · · ·	
KA3586COM	20.00	20.04	00.07.00.04.05	<u>├</u>	20	2170.0	217.00				l	
10000001	20.00	30.01	99-07-02 21:25	1	21	2733.7	2/3.37	-0.98	-1			
KA3566G01	20.80	30.01	99-07-05 16:50	1	30	2717.775	271.78					
KA3566G01	20.80	30.01	99-07-08 11:30	1	31	2722.5	272.25	0.47	1		I	
KA3566G01	20.80	30.01	99-07-13 10:00	1	40	2710 4	271.04					
KA3566COM	20.80	30.04	00.07 45 45:05		44	27 10.9	070.00					
VACCOCCUT	20.00	00.01	55-07-10 10:20		<del>9</del> 1	2100.2	270.02	-1.02	-1			
A3566G01	20.80	30.01	99-08-26 13:05	1	50	2583.2	258.32					
KA3566G01	20.80	30.01	99-09-01 14:08	1	51	2569.5	256.95	-1.37	-1			
KA3566G01	20.80	30.01	99-09-14 08:30	1	60	2560.7	256.07					
KA3566G01	20.80	30,01	99-09-18 21-55	1	61	2555 B	255 59	-0.49				
KA3566COM	20 20	20.04	00.12.01.00.00	├───		2000.0	050.00	-0.78	-1		}	
10-3000001	20.00	30.01	33-12-01 00:00	├──╹──↓	62	2560.3	256.03					
KA3566G01	12.30	19.80	99-06-15 00:00	2	00	1972.4	197.24					
KA3566G01	12.30	19.80	99-06-19 17:55	2	10	2027.6	202 76					
KA3566001	12 30	10.80	00.06 22 24:22	-		2024 4	202.10	0.05				
KARECOORT	12.00	19.00	33-00-22 21:32	2		2021.1	202.11	-0.65	-1			
KA3566G01	12.30	19.80	99-06-30 08:00	2	20	2007.0	200.70					
KA3566G01	12.30	19.80	99-07-02 21:25	2	21	1997.6	199.76	-0.94	-1			
KA3566G01	12.30	19.80	99-07-05 16:50	2	30	1992.6	199.26					
KA3566Q01	12 20	10.90	00-07-08 11-20	-	24	2000 0	200.00	0.80	-			
KATEROOM	10.00	10.00	00.07.40.41.50	<u> </u>	31	2000.0	200.06	0.80	1			
NA3300GU1	12.30	19.80	99-07-13 10:00	2	40	1995.3	199.53					
KA3566G01	12.30	19.80	99-07-15 15:25	2	41	1990.8	199.08	-0.45	-1			_
KA3566G01	12.30	19.80	99-08-26 13:05	2	50	1906.5	190.65					
KA3566G01	12.30	19.80	99-09-01 14-08	2	51	1004 2	100.42	.0.22	-1			
KA3566001	12 20	40.90	00.00.11.00.00	-		1007.0	100.40	-0.22	-1			
N-3000GU1	12.30	19.60	99-09-14 08:30	Z	60	1908.0	190.80					
KA3566G01	12.30	19.80	99-09-18 21:55	2	61	1906.9	190.69	-0.10	1			
KA3566G01	12.30	19.80	99-12-01 00:00	2	62	1950.7	195.07					

Pressure in b	oreholes	during drill	ing of deposition	holes				1	dP			
Bhname	Secup	seclow	Date time	Bh sect no	Pindex	P (kPa)	P (m)	dP(X1-X0) (m)	-1=-:1=+			
							,			· · · · · · · · · · · · · · · · · · ·	<u> </u>	
VADERCORE	7.00	44.20	00.00 45.00.00		00	2024.2	202.42					
KA3500G01	7.30	11.30	99-06-15 00:00	3	00	3231.3	323.13		· · ·			
KA3566G01	7.30	11.30	99-06-19 17:55	3	10	3109.1	310.91					ļ
KA3566G01	7.30	11.30	99-06-22 21:32	3	11	3197.4	319.74	8.83	1			
KA3566G01	7.30	11.30	99-06-30 08:00	3	20	3237.0	323.70					
KA3566G01	7.30	11.30	99-07-02 21:25	3	21	3232.1	323.21	-0.49	-1			
KA3566G01	7.30	11.30	99-07-05 16:50	3	30	3236.6	323.66					
KA3566G01	7.30	11:30	99-07-08 11:30	3	31	3221 7	322 17	-1 49	-1			
1043500001	7.00	11.00	00 07 42 40:00	-		3224.4	322.17	-1.45				
KA3566G01	7.30	11.30	99-07-13 10:00	3	40	3234,1	323.41					<b></b>
KA3566G01	7.30	11.30	99-07-15 15:25	3	41	3155.5	315.55	-7.86	-1			
KA3566G01	7.30	11.30	99-08-26 13:05	3	50	3220.7	322.07					
KA3566G01	7.30	11.30	99-09-01 14:08	3	51	3221.1	322.11	0.04	1			
KA3566G01	7.30	11.30	99-09-14 08:30	3	60	3219.4	321.94					
KA3566C01	7 30	11 30	99-09-18 21-55	3	61	3221.1	322.11	D 16	1			
10000001	7.00	11.00	00 40 04 00 00		01	2240.0	022.11	0.10	· ·			+
KA3300G01	7.30	11.30	99-12-01 00.00		02	3219.0	321.90	·				
KA3566G01	1.30	6.30	99-06-15 00:00	4	00	2782.4	278.24					
KA3566G01	1.30	6.30	99-06-19 17:55	4	10	2769.3	276.93					
KA3566G01	1.30	6.30	99-06-22 21:32	4	11	2792.6	279.26	2.33	1			
KA3566G01	1 30	6.30	99-06-30 08:00	4	20	2803.7	280 37					t
KASEGECON	1.00	6.00	00.07.03.24:25		20	2000.0	200.01	0.25				+
10433000001	1.30	0.30	99-07-02 21.25	4	21	2000.2	200.02	-0.35	-1			· · · · ·
KA3566G01	1.30	6.30	99-07-05 16:50	4	30	2803.7	280.37					
KA3566G01	1.30	6.30	99-07-08 11:30	4	31	2790.8	279.08	-1.29	-1			
KA3566G01	1.30	6.30	99-07-13 10:00	4	40	2795.3	279.53					
KA3566G01	1.30	6.30	99-07-15 15:25	4	41	2687.1	268.71	-10.82	-1			
KA3566001	1 30	6.30	99-08-26 13-05	4	50	2745 4	274 54					t
KAREECOA	1 20	6 30	00 00 04 44-05		50 54	2742.0	274.30	0.48	4			<u> </u>
KA3306G01	1.30	0.30	99-09-01 14:08	4	51	2/43.8	2/4.38	-0.16	-1			<u> </u>
KA3566G01	1.30	6.30	99-09-14 08:30	4	60	2735.2	273.52					
KA3566G01	1.30	6.30	99-09-18 21:55	4	61	2734.0	273.40	-0.12	-1			
KA3566G01	1.30	6.30	99-12-01 00:00	4	62	2726.6	272.66					
KA3566G02	19 30	30.01	99-06-15 00:00	1	00	3232.2	323 22			<u> </u>		
10-000002	10.00	00.01	00.00 40 47.55	· · · · ·		0202.2	020.22					·
A3300G02	19.30	30.01	99-00-19 17:00	1	10	3332.4	333.24					<u> </u>
KA3566G02	19.30	30.01	99-06-22 21:32	1	11	3335.3	333.53	0.29	1			ļ
KA3566G02	19.30	30.01	99-06-30 08:00	1	20	3334.4	333.44					
KA3566G02	19.30	30.01	99-07-02 21:25	1	21	3330.1	333.01	-0.43	-1			
KA3566G02	19.30	30.01	99-07-05 16:50	1	30	3327.9	332.79					
KA3566C02	19 30	30.01	99.07.08.11-30	1	31	3327.3	332 73	0.06	.1			
101000002	19.00	00.01	33-07-00 11.30			3327.3	332.75	-0.00				
KA3566GUZ	19.30	30.01	99-07-13 10:00	1	40	3322.2	332.22					l
KA3566G02	19.30	30.01	99-07-15 15:25	1	41	3322.4	332.24	0.02	1			L
KA3566G02	19.30	30.01	99-08-26 13:05	1	50	3305.4	330.54					
KA3566G02	19.30	30.01	99-09-01 14:08	1	51	3298.1	329.81	-0.74	-1			
KA3566G02	19.30	30.01	99-09-14 08:30	1	60	3296.0	329 60					
KA3566002	19.30	30.01	00.00 19.21-55		61	2286.6	229.66	0.04	4			<u> </u>
KA3566002	10.00	30.01	00.40.04.00.00		61	3200,0	320.00	-0.34				
NA3300G02	19.30	30.01	99-12-01 00:00	1	02	3191.0	319.18					
KA3566G02	12.30	18.30	99-06-15 00:00	2	00	3411.5	341.15					
KA3566G02	12.30	18.30	99-06-19 17:55	2	10	3469.6	346.96					
KA3566G02	12.30	18.30	99-06-22 21:32	2	11	3472.6	347 26	0.31	1			
KA3566G02	12 30	18 30	99-06-30 08:00	2	20	3471 2	347 12		· · · · · · · · · · · · · · · · · · ·			
1040500002	12.00	10.00	99-00-30 08.00	2	20	3471.2	347.12					
NA3300G02	12.30	18,30	99-07-02 21:25	<b>2</b>		34/5.3	347.53	0.41	· · · · · · · · · · · · · · · · · · ·			
KA3566G02	12.30	18.30	99-07-05 16:50	2	30	3473.0	347.30					
KA3566G02	12.30	18.30	99-07-08 11:30	2	31	3472.8	347.28	-0.02	-1			
KA3566G02	12.30	18.30	99-07-13 10:00	2	40	3468.5	346.85					
KA3566G02	12.30	18.30	99-07-15 15:25	2	41	3468.5	346.85	0.00	1			
KA3566G02	12 30	18:30	99-08-26 13:05	2	50	3473.0	347 30					
KA2588COO2	10 00	19.00	00.00.04 44.09	2	E4	3474.9	347.40	0.42	4			1
10-3300GU2	12.30	10.30	33-03-01 14:08	<u> </u>	51	34/4.5	341.43	U. 12	· ·			<b> </b>
KA3566G02	12.30	18.30	99-09-14 08:30	2	60	3470.6	347.06					I
KA3566G02	12.30	18.30	99-09-18 21:55	2	61	3465.5	346.55	-0.51	-1			ļ
KA3566G02	12.30	18.30	99-12-01 00:00	2	62	3402.1	340.21					
		T										
KA3566G02	7 80	11.30	99-06-15 00-00	3	00	2700 1	270 01					
KASSECOS	7.00	11.00	00.00 40 47-55		40	2700.1	270.01					<u>+</u>
NA3000G02	1.60	11.30	99-00-19 1/:55	3	10	2/09.1	<u>∠/0.91</u>	·····				
KA3566G02	7.80	11.30	99-06-22 21:32	3	11	2741.6	274.16	3.25	1			
KA3566G02	7.80	11.30	99-06-30 08:00	3	20	2713.8	271.38					
KA3566G02	7.80	11.30	99-07-02 21:25	3	21	2714.8	271.48	0.10	1			
KA3566G02	7.80	11.30	99-07-05 16:50	3	30	2708.5	270.85					
KA3566G02	7 80	11:30	99-07-08 11:30	3	31	2708 5	270.85	0.00	1			
KA3566C02	7 90	11.00	00.07 12 10.00		40	2007.0	200.00	0.00	, ,			<u> </u>
10000002	7.00	11.30	35-07-13 10:00	3	40	70A1.0	70a'\p					
KA3566G02	7.80	11.30	99-07-15 15:25	3	41	2696.6	269.66	-0.10	-1	L		
KA3566G02	7.80	11.30	99-08-26 13:05	3	50	2730.4	273.04					
KA3566G02	7.80	11.30	99-09-01 14:08	3	51	2722.4	272.24	-0.80	-1		-	
KA3566G02	7.80	11.30	99-09-14 08:30	3	60	2713 2	271.32					
KA3566C02	7 80	11 30	99-09-18 21-55	3	£1	2706 8	270 69	-0.63	-1			
KAREECOO	7.00	11.00	00 42 04 00:00		60	2100.0	210.00	-0.00	*1		ļ	<u> </u>
NA3500G02	1.80	11.30	99-12-01 00:00	3	62	2655.1	265.51					
KA3566G02	1.30	6.80	99-06-15 00:00	4	00	338.4	33.84					
KA3566G02	1.30	6.80	99-06-19 17:55	4	10	345.6	34.56					
KA3566G02	1.30	6.80	99-06-22 21:32	4	11	344 8	34 49	-0.08	-1			
KA3566C02	1 20	6 00	00.06.20.09.00		20	345.0	24.50	-0.00	-,			
101000002	1.30	0.00	33-00-30 00:00		20	340.0	34.00	L		l		<u> </u>

Pressure in	boreholes	during dril	Ing of deposition	holes					dP			T
Bhname	secup	seciow	Date time	Bh sect_no	Pindex	P (kPa)	P (m)	dP(X1-X0) (m)	-1=-;1=+			
KA3566G02	1.30	6.80	99-07-02 21:25	4	21	352.3	35.23	0.74	1			
KA3566G02	1.30	6.80	99-07-05 16:50	4	30	354.0	35.40					
KA3566G02	1.30	6.80	99-07-08 11:30	4	31	356.8	35.68	0.29	1			
KA3566G02	1.30	6.80	99-07-13 10:00	4	40	354.4	35.44					
KA3566G02	1.30	6.80	99-07-15 15:25	4	41	368.3	36.83	1.39	1			
KA3566G02	1.30	6.80	99-08-26 13:05	4	50	336.6	33.66					
KA3566G02	1.30	6.80	99-09-01 14:08	4	51	327.4	32.74	-0.92	-1			
KA3566G02	1.30	6.80	99-09-14 08:30	4	60	326.8	32.68				1	
KA3566G02	1.30	6.80	99-09-18 21:55	4	61	325.6	32.56	-0.12	-1			
KA3566G02	1.30	6.80	99-12-01 00:00	4	62	323.3	32.33					
KA3572G01	6.30	12.00	99-06-15 00:00	1	00	1911.5	191.15					
KA3572G01	6.30	12.00	99-06-19 17:55	1	10	1803.4	180.34					
KA3572G01	6.30	12.00	99-06-22 21:32	1	11	1854.7	185.47	5.13	1			
KA3572G01	6.30	12.00	99-06-30 08:00	1	20	1608.9	160.89					+
KA3572G01	6.30	12.00	99-07-02 21:25	1	21	1591.1	159.11	-1.78	-1		+	
KA3572G01	6.30	12.00	99-07-05 16:50	1	30	1578.2	157.82					
KA3572G01	6.30	12.00	99-07-08 11:30	1	31	1542.4	154.24	-3.58	-1			
KA3572G01	6.30	12.00	99-07-13 10:00	1	40	1535.3	153.53				1	
KA3572G01	6.30	12.00	99-07-15 15:25	1	41	1462.1	146.21	-7.32	-1			+
KA3572G01	0.30	12.00	99-08-26 13:05	1	50	330.4	33.04					
KA3572G01	0.30	12.00	99-09-01 14:08	1	51	334.0	33.40	0.37	1		+	
KA3572G01	0.30	12.00	99-09-14 08:30	1	60	336.1	33.61				+	
KA3572G01	0.30	12.00	99-09-18 21:55	1	61	337.1	33.71	0,10	1		1	+
KA3572G01	0.30	12.00	99-12-01 00:00	1	62	345.3	34.53		· ·			+
												+
KA3572G01	1.30	5.30	99-06-15 00:00	2	00	372.1	37,21				t	+
KA3572G01	1.30	5.30	99-06-19 17:55	2	10	361.1	36.11				+	1
KA3572G01	1.30	5.30	99-06-22 21:32	2	11	372.7	37 27	1 17		·····		+
KA3572G01	1.30	5.30	99-06-30 08:00	2	20	354.3	35.43					
KA3572G01	1.30	5.30	99-07-02 21:25	2	21	359 4	35.04	0.51			<del> </del>	
KA3572G01	1.30	5.30	99-07-05 16:50	2	30	350.7	35.02	0.51				+
KA3572G01	1.30	5.30	99-07-08 11:30	2	31	334.0	33.92	2.44				
KA3572G01	1.30	5.30	99-07-13 10:00	2	40	242.7	33.49	-2.44	-1			
KA3572G01	1.30	5.30	99-07-15 15:25		41	204.2	39.37	4.02				
			00 01 10 10.20			254.3	29.43	-4.93	-1			
KA3573A	18.00	40.07	99-06-15 00:00	1		4048.4	404.04					ļ
KA3573A	18.00	40.07	99-06-10 00:00			4016.1	401.61				<b> </b>	
KA3573A	18.00	40.07	99-06-19 17:55		10	4018.4	401.84					
KA3573A	18.00	40.07	99-06-22 21.32		11	4018.8	401.88	0.04	1		ļ	
KA3573A	18.00	40.07	99-08-30 08:00	1	20	4020.0	402.00					
KA3573A	18.00	40.07	99-07-02 21:25		21	4016.9	401.69	-0.31	-1			
KA3573A	18.00	40.07	99-07-05 16:50	1	30	4015.1	401.51				L	
KA3573A	18.00	40.07	99-07-08 11:30	1	31	4015.9	401.59	0.08	1			
KA3573A	18.00	40.07	99-07-13 10:00		40	4013.7	401.37					
KA3573A	18.00	40.07	99-07-15 15:25	1	41	4012.4	401.24	-0.12	-1			
KA3573A	18.00	40.07	99-08-26 13:05	1	50	4004.0	400.40					
KA3573A	18.00	40.07	99-09-01 14:08	1	51	4000.8	400.08	-0.33	-1			
KA3573A	18.00	40.07	99-09-14 08:30	1	60	3998.3	399.83					
KA3573A	18.00	40.07	99-09-18 21:55	1	61	3994.6	399.46	-0.37	-1			
KA3573A	18.00	40.07	99-12-01 00:00	1	62	3987.9	398.79					
KA3573A	4.50	17.00	99-06-15 00:00	2	00	3866.8	386.68					
KA3573A	4.50	17.00	99-06-19 17:55	2	10	3878.5	387.85					
KA3573A	4.50	17.00	99-06-22 21:32	2	11	3879.1	387.91	0.06	1			
KA3573A	4.50	17.00	99-06-30 08:00	2	20	3879.7	387.97					
KA3573A	4.50	17.00	99-07-02 21:25	2	21	3876.8	387.68	-0.29	-1			· · · · · · · · · · · · · · · · · · ·
KA3573A	4.50	17.00	99-07-05 16:50	2	30	3874.6	387.46					
KA3573A	4.50	17.00	99-07-08 11:30	2	31	3875.6	387.56	0.10	1			
KA3573A	4.50	17.00	99-07-13 10:00	2	40	3873.1	387.31					I
KA3573A	4.50	17.00	99-07-15 15:25	2	41	3871.5	387.15	-0.16	-1			·
KA3573A	4.50	17.00	99-08-26 13:05	2	50	3858.2	385.82					
KA3573A	4.50	17.00	99-09-01 14:08	2	51	3851.0	385.10	-0.72	-1			
KA3573A	4.50	17.00	99-09-14 08:30	2	60	3845.1	384.51		+			·······
KA3573A	4.50	17.00	99-09-18 21:55	2	61	3841.4	384.14	-0.37	-1			
KA3573A	4.50	17.00	99-12-01 00:00	2	62	3848 2	384.82	3.01	-1			
KA3574G01	8.80	12.00	99-06-15 00:00	1	00	1026.5	102 65					I
KA3574G01	8.80	12.00	99-06-19 17:55	1	10	1026.5	102.65					
KA3574G01	8.80	12.00	99-06-22 21:32	1	11	1036.9	103.60	1.04				
KA3574G01	8.80	12.00	99-06-30 08:00	1	20	1050.9	105.09	1.04	- 1			
KA3574G01	8.80	12.00	99-07-02 21:25		20	1240.0	103,96					
KA3574G01	8.80	12.00	99-07-05 18-50		21	1040.2	134.02	28.04	1			
KA3574G01	8,80	12.00	99-07-08 11-20		30	1249.4	124.94					
KA3574G01	8,80	12.00	99.07.13 10:00		31	12/1.5	127.15	2.21	1			
KA3574G01	8.80	12.00	99.07.15 10:00		40	638.1	63.81					
KA3574G01	0.00	12.00		1	41	545.9	54.69	-9.12	-1			
KA3574001	0.30	12.00	39-00-20 13:05		50	101.8	10.18					
KA3574004	0.30	12.00	99-09-01 14:08		51	104.5	10.45	0.27	1		T	
KA2574001	0.30	12.00	99-09-14 08:30	1	60	103.9	10.39					
r0430/4G01	0.30	12.00	99-09-18 21:55	1	61	104.7	10.47	0.08	1			
KA30/4G01	0.30	12.00	99-12-01 00:00	1	62	109.4	10.94					

Pressure in b	oreholes	during dril	ling of deposition I	holes					dP			
Bhname	secup	seclow	Date time	Bh sect_no	Pindex	P (kPa)	P (m)	dP(X1-X0) (m)	-1=-;1=+			
							1					
KA3574G01	5 30	7.80	99-06-15 00:00	2	00	952.2	95 22					
10-0574001	5.50	7.00	33-00-13 00.00		00	302.2	95.22					
KA3574G01	5.30	7.80	99-06-19 17:55	2	10	932.1	93.21					
KA3574G01	5.30	7.80	99-06-22 21:32	2	11	926.8	92.68	-0.53	-1			
KA3574G01	5.30	7.80	99-06-30 08:00	2	20	919.0	91.90					
KA3574G01	5.30	7.80	99-07-02 21:25	2	21	101.5	10.15	-81,76	-1			
KA3574G01	5 30	7 80	99-07-05 16:50	2	30	101.7	10.17					
10-0074001	6.00	7.00	33-07-03 10.30			101.7	10.17					
KA3574G01	5.30	1,00	99-07-08 11:30	2	- 31	103.3	10.33	0.16	1			
KA3574G01	5.30	7.80	99-07-13 10:00	2	40	101.2	10.12					
KA3574G01	5.30	7.80	99-07-15 15:25	2	41	100.6	10.06	-0.06	-1			
KA3574G01	1.30	4.30	99-06-15 00:00	3	00	191 1	19 11					
KA2574C01	1.00	4.20	00 06 10 17.55		40	400.0	40.00					
100074001	1.30	4.30	99-00-19 11.30	3	10	190.9	19.09					
KA3574G01	1.30	4.30	99-06-22 21:32	3	11	189.3	18.93	-0.16	-1			
KA3574G01	1.30	4.30	99-06-30 08:00	3	20	187.6	18.76					1
KA3574G01	1.30	4.30	99-07-02 21:25	3	21	188.0	18.80	0.04	1			
KA3574G01	1.30	4.30	99-07-05 16:50	3	30	206.0	20.60					
KA3574G01	1 30	4 30	99-07-08 11:30	3	21	102.6	10.26	10.24			· · · · · · · · · · · · · · · · · · ·	
KA2574C04	1.00	4.00	00.07.40.40.00			103.0	10.00	-10.24				f
KAS5/4GUT	1.30	4.30	99-07-13 10:00	3	40	97.1	9.71					
KA3574G01	1.30	4.30	99-07-15 15:25	3	41	97.3	9.73	0.02	1			l
												1
KA3576G01	8.80	12.01	99-06-15 00:00	1	00	1171.3	117.13					
KA3576G01	8.80	12.01	99-06-19 17:55	1	10	1166.4	116.64					·
KA3578G01	8 80	12.01	00.06.22.21.22		14	4464 7	448.47	0.10				f
KA2570004	0.00	12.01	33-00-22 21.32			1104.7	110.47	-0.10	-1			
NA35/0GU1	0.50	12.01	99-00-30 08:00	1	20	1181.7	138.17					Í
KA3576G01	8.80	12.01	99-07-02 21:25	1	21	1998.6	199.86	81.69	1			
KA3576G01	8.80	12.01	99-07-05 16:50	1	30	1880.4	188.04					
KA3576G01	8.80	12.01	99-07-08 11:30	1	31	1812.1	181.21	-6.83	-1			
KA3576G01	8.80	12.01	99-07-13 10:00	1	40	1734.0	173.40					
KA3576004	8.80	12.04	00.07 16 15:05		44	1005.0	160.50	2 00				
1040570001	0.00	12.01	99-07-15 15.25		41	1095.9	109.59	-3.00	-1			ł
KA35/6G01	0.30	12.01	99-08-26 13:05	1	50							I
KA3576G01	0.30	12.01	99-09-01 14:08	1	51							l
KA3576G01	0.30	12.01	99-09-14 08:30	1	60							1
KA3576G01	0.30	12.01	99-09-18 21:55	1	61							1
KA3576G01	0 30	12.01	89-12-01 00:00	1	62							
KA3576G01	3.80	7.80	99-06-15 00:00	2	00	168.8	16.88					l
KA3576G01	3.80	7.80	99-06-19 17:55	2	10	169.2	16.92					
KA3576G01	3.80	7.80	99-06-22 21:32	2	11	174.3	17.43	0.51	1			
KA3576G01	3.80	7.80	99-06-30 08:00	2	20	176.0	17 60					
KA3576G01	3.80	7.80	99.07.02 21.25	2	24	217.0	24.70	4.44				
KA3576001	0.00	7.00	95-07-02 21.25	2	21	217.0	21.70	4.11	1			
KA3576G01	3.80	7.80	99-07-05 16:50	2	30	208.3	20,83					
KA3576G01	3.80	7.80	99-07-08 11:30	2	31	134.3	13.43	-7.39	-1			1
KA3576G01	3.80	7.80	99-07-13 10:00	2	40	84.3	8.43					
KA3576G01	3.80	7.80	99-07-15 15:25	2	41	82.6	8.26	-0.16	-1			
KA2576001	1 20	2.90	00.05.45.00.00	-		005.0						
KA3570G01	1.30	2.00	99-00-15 00:00	3	00	395.6	39,56					· أ
KA35/6G01	1.30	2.80	99-06-19 17:55	3	10	399.5	39.95					
KA3576G01	1.30	2.80	99-06-22 21:32	3	11	415.8	41.58	1.64	1			
KA3576G01	1.30	2.80	99-06-30 08:00	3	20	435.5	43.55					
KA3576G01	1.30	2.80	99-07-02 21:25	3	21	2497.2	249 72	206 17	1			
KA3576G01	1 30	2.80	99.07.05 16-50		20	1790.4	178.04					
KA2E76C01	1.00	2.00	00.07.00.44.00			1703.4	1/0.34					
KA3576G01	1,30	2.00	99-07-08 11:30	3	31	3497.8	349.78	170.84	1			
KA3576G01	1.30	2.80	99-07-13 10:00	3	40	3013.8	301.38					
KA3576G01	1.30	2.80	99-07-15 15:25	3	41	2802.6	280.26	-21.12	-1			
KA3578G01	6.80	12.58	99-06-15 00:00	1	00	1271 5	127 15			· · · · ·		
KA3578G01	6.80	12 58	99-06-10 17-55		10	1072.0	127 20					
KASETACOL	0.00	12.00	00 00 00 01 00		10	1213.0	121.30					
1013578601	0.60	12.58	99-06-22 21:32	1	11	12/3.2	127.32	0.02	1			
KA3578G01	6.80	12.58	99-06-30 08:00	1	20	1290.8	129.08					
KA3578G01	6.80	12.58	99-07-02 21:25	1	21	1279.7	127.97	-1.10	-1			
KA3578G01	6.80	12.58	99-07-05 16:50	1	30	1284.6	128.46					
KA3578G01	6,80	12.58	99-07-08 11:30	1	31	1306 1	130.61	2 16	·····			
KA3578C01	6 80	12.00	00.07.12.10.00		40	1000.1	100.01	4.10				
KADOTOGUI	0.00	12.50	99-07-13 10:00	1	40	1306.2	136.62					
KA35/8G01	6.80	12.58	99-07-15 15:25	1	41	1370.3	137.03	0.41	1			
KA3578G01	0.30	12.58	99-08-26 13:05	1	50	93.6	9.36					
KA3578G01	0.30	12.58	99-09-01 14:08	1	51	95.7	9.57	0.20	1			
KA3578G01	0.30	12.58	99-09-14 08:30	1	60	94 6	946					
KA3578G01	0.30	12 58	99-09-18 21-55	1	61	04.0	0.40	0.00	4			
KA3579004	0.00	10.50	00 10 04 00 00		01	99,0	5.40	-0.00	-1			
N435/8G01	0.30	12.58	99-12-01 00:00	1	62	90.8	9.08					
											[	
KA3578G01	1.30	5.80	99-06-15 00:00	2	00	161.7	16.17					
KA3578G01	1.30	5.80	99-06-19 17:55	2	10	161.9	16 19		l			
KA3578G01	1 30	5.80	99-06-22 24-22		11	164 4	16.44	0.25				
KA3578004	1 20	5.00 E 00	00 06 30 00:00			400.0	40.00	0.25				
100070001	1.00	0.00	33-00-30 08:00	2	20	168.9	16.89					
KA3578G01	1.30	5.80	99-07-02 21:25	2	21	218.0	21.80	4.91	1			
KA3578G01	1.30	5.80	99-07-05 16:50	2	30	202.2	20.22					
KA3578G01	1.30	5.80	99-07-08 11:30	2	31	138.2	13.82	-6.40	-1	·· · ·		
KA3578G01	1.30	5 80	99-07-13 10:00	2	40	85.7	8 57					
KA3579004	1 20	5.00 E 00	00 07 45 45			00.1	0.57		·			
100010001	1.30	0.60	99-07-10 15:25	2	41	61.4	8.14	-0.43	-1			

Pressure in I	boreholes	durina drill	ing of deposition	holes				1	dP		1	T
Bhname	Secur	seciow	Date time	Bh sect no	Dinday		P(m)	dP(V1 V0) (m)	4			
	Jocup	300101	Date unit	Bil sect_no	FINGER	F (NFa)	- (m)		-1,1-+			
KA3579G01	9.30	22.65	99-06-15 00:00	1	00	2031.5	203.15					
KA3579G01	9.30	22.65	99-06-19 17:55	1	10	1968.0	196.80					
KA3579G01	9.30	22.65	99-06-22 21:32	1	11	1073 3	107 33	0.53	•			+
KA3570C01	0.20	22.00	00.00.22.21.02			1970.0	197.00	0.00	1			+
KA3579G01	9.30	22.65	99-06-30 08:00	1	20	1629.0	162.90					
KA3579G01	9.30	22.65	99-07-02 21:25	1	21	1623.6	162.36	-0.53	-1			1
KA3579G01	9.30	22.65	99-07-05 16:50	1	30	1624.3	162.43					
KA3579G01	9.30	22.65	99-07-08 11:30	1	31	1623.4	162 34	0.08	4		•	
10-007-0001	0.00	22.00	33-07-00 11.30		31	1023.4	102.34	-0.08	•1			+
KA35/9G01	9.30	22.65	99-07-13 10:00	1	40	1590.7	159.07					
KA3579G01	9.30	22.65	99-07-15 15:25	1	41	1583.9	158.39	-0.68	-1			
KA3579G01	0.30	22.65	99-08-26 13:05	1	50	570.7	57.07	1				
KADETOODA	0.00	00.05	00 00 20 10.00									
KA3579G01	0.30	22.65	99-09-01 14:08	1	51	517.3	51.73	-5.34	-1			
KA3579G01	0.30	22.65	99-09-14 08:30	1	60	548.0	54.80					
KA3579G01	0.30	22.65	99-09-18 21:55	1	61	569.4	56 94	2.15	1			
KA3579C01	0.30	22.65	99 12 01 00:00		62	E 47 4	E4 74		· · · · · · · · · · · · · · · · · · ·			
1010013001	0.00	22.00	55-12-01 00.00		02	347.4	34./4					
KA3579G01	5.30	8.30	99-06-15 00:00	2	00	511.6	51.16					
KA3579G01	5.30	8 30	99-06-19 17:55	2	10	505.4	50.54				1	
KA3570004	E 20	8.20	00.00.00.04.00	-			54.40					
1043579301	5.30	8.30	99-00-22 21:32	2		511.Z	51.12	0.57	1			
KA3579G01	5.30	8.30	99-06-30 08:00	2	20	509.1	50.91					
KA3579G01	5.30	8.30	99-07-02 21:25	2	21	478.5	47.85	-3.07	-1			
KA3579G01	5 30	8 30	00.07.05.16-50		20	740.7	74.07		•		+	+
10.0070000	0.00	0.00	00-07-00 10.00		30	148.1	14.31					+
KA3579G01	5.30	8.30	99-07-08 11:30	2	31	741.6	74.16	-0.82	-1			
KA3579G01	5.30	8.30	99-07-13 10:00	2	40	661.6	66.16				1	
KA3579G01	5.30	8.30	99-07-15 15:25	2	41	618.9	61.89	-4 27	-1			1
	1										1	+
	+					+				L		4
KA3579G01	1.30	4.30	99-06-15 00:00	3	00	333.6	33.36				1	1
KA3579G01	1.30	4.30	99-06-19 17:55	3	10	331.5	33.15				1	1
KA3579G01	1.30	4 30	99-06-22 21-32	2	11	3377	33 77	0.61	4			+
1410570004	1.00	4.00	33-00-22 21.32	3		331.1	33.11	0,01	1			
KA35/9G01	1.30	4.30	99-06-30 08:00	3	20	357.1	35.71					
KA3579G01	1.30	4.30	99-07-02 21:25	3	21	336.2	33.62	-2.09	-1			
KA3579G01	1.30	4.30	99-07-05 16:50	3	30	415.0	41 50					
KA3570C01	1 20	4.20	00 07 08 44-20		00	410.0	41.00					
1043579501	1.30	4.30	99-07-08 11:30	3	31	400.5	40.05	-1.45	-1			
KA3579G01	1.30	4.30	99-07-13 10:00	3	40	422.5	42.25					
KA3579G01	1.30	4.30	99-07-15 15:25	3	41	417.8	41.78	-0 47	-1			
								0.11	- •		<u> </u>	+
												1
KA3584G01	0.30	12.00	99-06-15 00:00	1	00	113.6	11.36					
KA3584G01	0.30	12.00	99-06-19 17:55	1	10	111.8	11.18					
KA3584G01	0.30	12.00	99-06-22 21-32	1	11	112.0	11 20	0.02	1			+
KAREBACOA	0.00	10.00	00 00 00 00 00 00			112.0	11.20	0.02			1	
KA3584GU1	0.30	12.00	99-06-30 08:00	1	20	110.6	11.06					
KA3584G01	0.30	12.00	99-07-02 21:25	1	21	109.5	10.95	-0.10	-1			
KA3584G01	0.30	12.00	99-07-05 16:50	1	30	108.7	10.87				1	
KA2594C01	0.20	42.00	00 07 00 14:00			100.1	10.07				-	
1003004001	0.30	12.00	99-07-08 11:30	1	31	111.2	11.12	0.25	1			
KA3584G01	0.30	12.00	99-07-13 10:00	1	40	108.3	10.83				1	
KA3584G01	0.30	12.00	99-07-15 15:25	1	41	107.9	10.79	-0.04	-1			
KA3584G01	0.30	12.00	00.09.26 12:05		50	408.2	40.00	0.04	-,		+ · · · · · · · · · · · · · · · · · · ·	<u>+</u>
1010004001	0.00	12.00	55-00-20 13.03	· · · · · · · · · · · · · · · · · · ·	50	100.3	10.83					
KA3584G01	0.30	12.00	99-09-01 14:08	1	51	107.9	10.79	-0.04	-1			
KA3584G01	0.30	12.00	99-09-14 08:30	1	60	107.9	10.79					
KA3584G01	0.30	12.00	00-00-18 21:55	1	61	107.5	10.75	0.04	4			
KADERAGOA	0.00	12.00	33-03-10 21.33		01	107.5	10.75	-0,04	-1			
KA3564G01	0.30	12.00	99-12-01 00:00	1	62	104.6	10.46					
KA3590G01	17.30	30.06	99-06-15 00:00	1	00	3931.5	393 15					
KA3590C01	17 20	30.06	99.06 10 17.55		40	2025 4	202.10	├ <del>─</del> ───┤			+	
KARCORCE	11.00	50.00	55-00-19 17:00	- F	10	3933.4	393.54	L			<b></b>	
KA3590G01	17.30	30.06	99-06-22 21:32	1	11	3935.8	393.58	0.04	1			
KA3590G01	17.30	30.06	99-06-30 08:00	1	20	3938.0	393.80					[
KA3590G01	17.30	30.06	99-07-02 21:25	1	21	3916.7	391 67	-2 12	_1		1	1
KA3500004	17 20	30.00	00 07 05 40 50			2000 -	001.07	-2.15	'			l
101000001	17.30	30.00	33-07-05 10:50	!	<i>ა</i> 0	3922.5	392.25				l	
KA3590G01	17.30	30.06	99-07-08 11:30	1	31	3925.3	392.53	0.29	1		1	
KA3590G01	17.30	30.06	99-07-13 10:00	1	40	3925.1	392.51				1	
KA3590G01	17.30	30.06	99-07-15 15:25	1	<b>41</b>	3974 5	307 45	.0.06	_1		<u> </u>	
KA3500004	0.20	20.00	00.09.20 10.05				74.00	-0.00	- 1		+	<u> </u>
100000001	0.30	30.06	99-06-26 13:05	1	50	/42.0	/4.20					
KA3590G01	0.30	30.06	99-09-01 14:08	1	51	737.7	73.77	-0.43	-1			
KA3590G01	0.30	30.06	99-09-14 08:30	1	60	725.5	72.55				1	
KA3590G01	0.30	30.06	00.00.18 24.66	·····	64	705 4	70.54	0.01			t	L
KASEDOCOL	0.00	00.00	00.45 10 21:00		10	125.1	12.51	-0.04	-1		I	ļ
KA3590G01	0.30	30.06	99-12-01 00:00		62	690.5	69.05				L	<u> </u>
												1
KA3590G01	7.80	16 30	99-06-15 00:00	2	00	3858 4	385.94			· · · · ·	l	
KA3500004	7.80	40.00	00 00 40 17 77			0000,1	303.01				······	
NA3590G01	1.80	10.30	99-06-19 17:55	Z	10	3868.8	386.88				L	L
KA3590G01	7.80	16.30	99-06-22 21:32	2	11	3869.6	386.96	0.08	1			
KA3590G01	7.80	16.30	99-06-30 08:00	2	20	3870.6	387.06					
KA3590C01	7 80	16 20	00.07.03.24.25			2000.0	200.00				·	
KAREAGO	7.00	10.30	99-07-02 21:25	۷	21	3008.2	386.82	-0.25	-1			f
KA3590G01	7.80	16.30	99-07-05 16:50	2	30	3866.3	386.63					I
KA3590G01	7.80	16.30	99-07-08 11:30	2	31	3867.1	386.71	0.08	1			
KA3590G01	7 80	16.30	99-07-13 10:00		40	3864.0	385 40		· ·			
KA3500001	7.00	40.00	00 07 45 45 05		70	0004.9	000.49					
100090601	1.80	16.30	99-0/-15 15:25	2	41	3863.2	386.32	-0.16	-1			
						1					1	
KA3590G01	1.30	6.80	99-06-15 00:00	3	00	1602.2	160.22					
KA3500004	1 20	6 20	00 06 40 47 55	ž		4500 -	455.5					I
10.000001	1.50	0.00	99-00-19 17:55	3	10	1588.9	158.89					L
KA3590G01	1.30	6.80	99-06-22 21:32	3	11	1548.4	154.84	-4.05	-1			1
KA3590G01	1.30	6.80	99-06-30 08:00	3	20	1534 1	153 41					
					~~		.00.71				L	i,

Pressure In	boreholes	during dri	lling of deposition	holes		1	T		dP	·····	1	
Bhname	secup	seclow	Date time	Bh sect no	Pindex	P (kPa)	P (m)	$dP(X_{1},X_{0})(m)$	-1=1=+			
KA3590G01	1.30	6.80	99-07-02 21 25	3	21	1578 7	157.97	4 46		-{		
KA3590G01	1.30	6.80	99.07.05 18:50	2	20	1570.7	157.07	4.40	-			+
KA3500C01	1.00	0.00	99-07-03 10.30		30	1005.8	156.58					
KA3590G01	1.30	6.80	99-07-08 11:30	3	31	1568.3	156.83	0.24	1			
KA3590G01	1.30	6.80	99-07-13 10:00	3	40	1563.2	156.32					
KA3590G01	1.30	6.80	99-07-15 15:25	3	41	1557.2	155.72	-0.59	-1			
						1						
KA3590G02	23.30	30.05	99-06-15 00:00	1	00	3564.8	356.48					
KA3590G02	23.30	30.05	99-06-19 17:55	1	10	3610.4	361.04					
KA3590G02	23.30	30.05	99-06-22 21:32	1	11	3611.6	361.16	0.12	1		_	
KA3590G02	23.30	30.05	99-06-30 08:00	1	20	3611.4	361.14				·   ·····	
KA3590G02	23.30	30.05	99-07-02 21:25	1	21	3607.7	360.77	-0.37	-1	+		
KA3590G02	23.30	30.05	99-07-05 16:50	1	30	3605.0	360.59	-0.01		+		
KA3590G02	23.30	30.05	99-07-08 11:30		21	3605.3	360.53	0.00		+		
KA3590G02	23.30	30.05	99.07.13.10:00			3003.7	360.57	-0.02	-1			
KA3500C02	20.00	30.05	99-07-13 10.00		40	3602.4	360.24					
KA3500002	23.30	30.03	99-07-15 15:25	1	41	3602.8	360.28	0.04	1	1		
KA3590G02	0.30	30.05	99-08-26 13:05	1	50	3558.3	355.83					
KA3590G02	0.30	30.05	99-09-01 14:08	1	51	3560.6	356.06	0.23	1			
KA3590G02	0.30	30.05	99-09-14 08:30	1	60	3558.1	355.81					
KA3590G02	0.30	30.05	99-09-18 21:55	1	61	3554.5	355.45	-0.37	-1	1		
KA3590G02	0.30	30.05	99-12-01 00:00	1	62	3502.5	350.25					-
											1	
KA3590G02	17.30	22.30	99-06-15 00:00	2	00	3218.2	321 82	- · · · · · · · · · · · · · · · · · · ·		-		
KA3590G02	17.30	22.30	99-06-19 17:55	2	10	3275 3	327.52			+		+
KA3590G02	17 30	22 30	00.06.22.21.22	2	10	02/0.0	321.33					
KA3500002	17 20	22.00	00.06.20.08.00	<u> </u>		3214.9	321.49	-0.03	-1			
XA3500002	17.00	22.30	99-00-30 08:00	2	20	3124.3	312.43			<u> </u>		
KASEGOOGO	17.30	22.30	99-07-02 21:25	2	21	3120.4	312.04	-0.39	-1			1
KAJO90G02	17.30	22.30	99-07-05 16:50	2	30	3118.0	311.80				ļ	
KA3590G02	17.30	22.30	99-07-08 11:30	2	31	3101.0	310.10	-1.70	-1			
KA3590G02	17.30	22.30	99-07-13 10:00	2	40	3094.5	309.45			1		
KA3590G02	17.30	22.30	99-07-15 15:25	2	41	3089.1	308.91	-0.53	-1			
										1	+	
KA3590G02	8.30	16.30	99-06-15 00:00	3	00	2712.5	271 25					
KA3590G02	8,30	16.30	99-06-19 17:55	3	10	2714.4	271.44			··· ·	+	
KA3590G02	8.30	16.30	99-06-22 21:32	2		2714.4	271.44					
KA3590G02	8 20	16.30	99-00-22 21.32			2514.3	251.43	-20.00	-1	<u> </u>		
KA3500C02	0.30	10.30	99-06-30 08:00	3	20	2296.5	229.65					
KA3590G02	8.30	16.30	99-07-02 21:25	3	21	2293.0	229.30	-0.35	-1			
KA3590G02	8.30	16.30	99-07-05 16:50	3	30	2289.4	228.94					
KA3590G02	8.30	16.30	99-07-08 11:30	3	31	2287.7	228.77	-0.16	-1			
KA3590G02	8.30	16.30	99-07-13 10:00	3	40	2311.0	231.10				1	
KA3590G02	8.30	16.30	99-07-15 15:25	3	41	2308.4	230.84	-0.27	-1			
		1			-							
KA3590G02	1.20	7.20	99-06-15 00:00	4	00	946.7	94.67					
KA3590G02	1.20	7.20	99-06-19 17:55	4	10	898.6	ROAR				1	
KA3590G02	1.20	7 20	99-06-22 21:32			755.5	75 55	44.20				
KA3590G02	1 20	7 20	00 06 30 08:00			700.0	75.55	-14.32	-1	ļ	+	
KA3590C02	1.20	7.20	00.07.00.04.05		20	539.7	53.97				ļ	
KA3500C02	1.20	7.20	99-07-02 21:25	4	21	527.0	52.70	-1.27	-1		ļ	
KA3590G02	1.20	7.20	99-07-05 16:50	4	30	511.5	51.15					
KA3590G02	1.20	7.20	99-07-08 11:30	4	31	519.9	51.99	0.84	1			
KA3590G02	1.20	7.20	99-07-13 10:00	4	40	501.9	50.19					
KA3590G02	1.20	7.20	99-07-15 15:25	4	41	511.5	51.15	0.96	1			
KA3593G01	8.30	30.02	99-06-15 00:00	1	00	2056.8	205.68					
KA3593G01	8.30	30.02	99-06-19 17:55	1	10	2057.0	205.70				1	<u> </u>
KA3593G01	8.30	30.02	99-06-22 21:32	1	11	2033 5	203 35	_2 36	-1		1	+I
KA3593G01	8.30	30.02	99-06-30 08:00		20	2000.0	200.00	-2.55	-1			<b>├</b> ──── <b>│</b>
KA3593G01	8 30	30.02	99-07-02 21-25		20	2003.3	200.33	0.50			<u> </u>	<u>├</u> <b> </b>
KA3593G01	8 20	30.02	99.07.06.46-60		- 41	2003.4	200.34	-0.59	-1			ļI
KA3503C01	9.55 8 20	30.02	00.07.09.44.00		30	1996.2	199.62	·····				<b> </b>
KA3502C04	0.00	30.02	99-07-08 11:30	1	31	2002.8	200.28	0.65	1			
KASEGOOOL	0.30	30.02	99-07-13 10:00	1	40	1998.7	199.87					
KA3593G01	8.30	30.02	99-07-15 15:25	1	41	1994.0	199.40	-0.47	-1			
KA3593G01	0.30	30.02	99-08-26 13:05	1	50	1400.1	140.01					I
KA3593G01	0.30	30.02	99-09-01 14:08	1	51	1397.6	139.76	-0.25	-1	-		
KA3593G01	0.30	30.02	99-09-14 08:30	1	60	1372.5	137.25					
KA3593G01	0.30	30.02	99-09-18 21:55	1	61	1373.1	137.31	0.06	1			<u>                                     </u>
KA3593G01	0.30	30.02	99-12-01 00:00	1	62	1450 5	145.05		· ·			[
												├1
KA3593G01	1.30	7.30	99-06-15 00:00	+		2022 4	202.24				· · · · ·	
KA3593G01	1.30	7 30	00.06.10.17.55	<u>-</u>	10	2022.1	202.21					
KA3593C01	1 20	7.00	00.06.00.01.00		10	2011.3	201.13					<b> </b>
KA3502004	1.00	7.00	99-00-22 21:32	2	11	1510.1	151.01	-50.12	-1			
KASCOSCO	1.30	/.30	99-06-30 08:00	2	20	1304.3	130.43					
KA3593G01	1.30	7.30	99-07-02 21:25	2	21	1305.1	130.51	0.08	1			
KA3593G01	1.30	7.30	99-07-05 16:50	2	30	1302.6	130.26					
KA3593G01	1.30	7.30	99-07-08 11:30	2	31	1283.2	128.32	-1.94	-1			I
KA3593G01	1.30	7.30	99-07-13 10:00	2	40	1277.9	127.79					<b> </b>
KA3593G01	1.30	7.30	99-07-15 15:25	2	41	1275 8	127 58	-0.20				
							127.00	-0.20			· · · ·	
KA3600F	22.00	50 10	99-06-15 00:00			4092 0	400.00					
KA3600F	22.00	50.10	99.06.10.47.55		00	4003.0	400.38					
KA3600E	22.00	50.10	93-00-19 17:55		10	4084.2	408.42					
KARROOT	22.00	50.10	99-06-22 21:32	1	11	4084.6	408.46	0.04	1			
KA3600F	22.00	50.10	99-06-30 08:00	1	20	4085.8	408,58					

Pressure in	boreholes	during dril	ling of deposition	holes	1	<u> </u>			dP	 	T
Bhname	secup	seclow	Date time	Bh sect no	Pindex	P (kPa)	P (m)	dP(X1-X0) (m)	-1=-:1=+	 +·	
KA3600F	22.00	50.10	99-07-02 21:25	1	21	4083.8	408 38	-0.20		 	
KA3600F	22.00	50 10	99-07-05 18:50	1	30	4081.5	409.15	-0.20		 	
KA3600E	22.00	50.10	99-07-03 10.30		30	4001.5	400.15		<u> </u>	 	·
KADODOF	22.00	50.10	99-07-08 11:30	1 1	31	4082.7	408.27	0.12	1	 	
KA3600F	22.00	50.10	99-07-13 10:00	1	40	4080.5	408.05			 	
KA3600F	22.00	50.10	99-07-15 15:25	1	41	4079.3	407.93	-0.12	-1		
KA3600F	22.00	50.10	99-08-26 13:05	1	50	4072.9	407.29				
KA3600F	22.00	50.10	99-09-01 14:08	1	51	4071.7	407.17	-0.12	-1	-	
KA3600F	22.00	50.10	99-09-14 08:30	1	60	4069.4	406.94				T
KA3600F	22.00	50.10	99-09-18 21:55	1	61	4067.2	406.72	-0.23	-1	 · · · · · · · · · · · · · · · · · · ·	
KA3600F	22.00	50,10	99-12-01 00:00	1	62	4051.4	405 14		····-·	 	+
							400,14			 	
KA3600E	4.50	21.00	00.06.15.00.00			4000.0	400.00	·		 	
KADCODE	4.50	21.00	99-00-15 00:00	2	00	4060.9	406.09				
RAJOUUP	4.50	21.00	99-06-19 17:55	2	10	4062.9	406.29			 	
KA3600F	4.50	21.00	99-06-22 21:32	2	11	4063.3	406.33	0.04	1		
KA3600F	4.50	21.00	99-06-30 08:00	2	20	4064.1	406.41				
KA3600F	4.50	21.00	99-07-02 21:25	2	21	4061.5	406.15	-0.26	-1		
KA3600F	4.50	21.00	99-07-05 16:50	2	30	4059.5	405.95			 1	
KA3600F	4.50	21.00	99-07-08 11:30	2	31	4060.5	406.05	0.10	1	 	
KA3600F	4.50	21.00	99-07-13 10:00	2	40	4058.0	405.80	0.10		 ····	1
KA3600E	4.50	21.00	00.07 15 15:05	2	40	4050.0	403.80			 +	
KARCOOF	4.50	21.00	99-07-15 15:25	2	41	4056.8	405.68	-0.12	-1	 	
KAJOUUF	4.50	21.00	99-08-26 13:05	2	50	4049.6	404.96				
KA3600F	4.50	21.00	99-09-01 14:08	2	51	4047.7	404.77	-0.18	-1	İ	
KA3600F	4.50	21.00	99-09-14 08:30	2	60	4045.9	404.59				
KA3600F	4.50	21.00	99-09-18 21:55	2	61	4042.7	404.27	-0.32	-1		1
KA3600F	4.50	21.00	99-12-01 00:00	2	62	4031.6	403.16			 	
KG0021A01	42.50	48.82	99.06.15.00:00	4		2240 7	224.07			 	
KC0021A01	42.50	40.02	99-00-13 00.00		00	3342.7	334.27	· · · · · · · · · · · · · · · · · · ·		 ļ	
KGUUZIAUT	42.50	40.62	99-06-19 17:55	1	10	3484.9	348.49			 	
KG0021A01	42.50	48.82	99-06-22 21:32	1	11	3485.2	348.52	0.02	1		
KG0021A01	42.50	48.82	99-06-30 08:00	1	20	3484.1	348.41			1	
KG0021A01	42.50	48.82	99-07-02 21:25	1	21	3481.7	348.17	-0.25	-1		
KG0021A01	42.50	48.82	99-07-05 16:50	1	30	3478.6	347.86				
KG0021A01	42.50	48.82	99-07-08 11:30	1	31	3480.4	348.04	0.18	1	 1	
KG0021A01	42.50	48.82	99-07-13 10:00	1	40	3475 7	347 57			 	
KG0021A01	42.50	48.82	99-07-15 15:25	1	41	3475.0	247 50	0.02		 	
KG0021401	42.50	49.92	00 09 08 12:05			0470.9	347.39	0.02	·	 	
KC0021A01	42.50	40.02	99-00-20 13.05	1	50	34/9.2	347.92			 	ļ
KG0021A01	42.50	48.82	99-09-01 14:08	1	51	3483.9	348.39	0.47	1	 	
KG0021A01	42.50	48.82	99-09-14 08:30	1	60	3479.0	347.90				
KG0021A01	42.50	48.82	99-09-18 21:55	1	61	3475.3	347.53	-0.37	-1		
KG0021A01	42.50	48.82	99-12-01 00:00	1	62	3415.8	341.58			 	
KG0021A01	35.00	41.50	99-06-15 00:00	2	00						
KG0021A01	35.00	41.50	99-06-19 17:55	2	10	3492.2	349 22			 	
KG0021A01	35.00	41.50	00.06.22.24:22	2	10	3402.6	049.22			 	
KG0021A01	25.00	41.50	33-00-22 21.32			3493.0	349.30	0.14	1	 	l
KG0021A01	35.00	41.50	99-00-30 08:00	2	20	3493.6	349.36			 l	
KGUUZTAUT	35.00	41.50	99-07-02 21:25	2	21	3490.6	349.06	-0.31	-1		
KG0021A01	35.00	41.50	99-07-05 16:50	2	30	3488.3	348.83				
KG0021A01	35.00	41.50	99-07-08 11:30	2	31	3489.7	348.97	0.14	1		
KG0021A01	35.00	41.50	99-07-13 10:00	2	40	3485.4	348.54				
KG0021A01	35.00	41.50	99-07-15 15:25	2	41	3486.2	348.62	0.08	1		
KG0021A01	35.00	41.50	99-08-26 13:05	2	50	3482.4	348.24	0.00	·	 	<u> </u>
KG0021A01	35.00	41.50	99.09.01 14:08		51	2480.0	248.00	0.76		 	
KG0021401	35.00	41.00	00 00 44 00:00			3409.9	348.99	0.76		 	
KG0021AUT	35.00	41.50	55-09-14 08:30	2	60	3486.7	348.67			 	
KOODEL	35.00	41.50	99-09-18 21:55	2	61	3483.8	348.38	-0.29	-1		
KG0021A01	35.00	41.50	99-12-01 00:00	2	62	3420.3	342.03				
KG0021A01	25.00	34.00	99-06-15 00:00	3	00						
KG0021A01	25.00	34.00	99-06-19 17:55	3	10	3493.6	349.36			 	
KG0021A01	25.00	34.00	99-06-22 21:32	3	11	3496 3	349.63	0.27	1	 	
KG0021A01	25.00	34.00	99-06-30 08:00	2	20	3407.1	340.74	0.27		 	
KG0021401	25.00	34.00	99-00-00 00.00		20	3497.1	349./1			 	
KG0021A01	20.00	34.00	33-07-02 21:25	3	21	3494.2	349.42	-0.29	-1	 	
AG0021A01	25.00	34.00	99-07-05 16:50	3	30	3492.4	349.24			 	
KG0021A01	25.00	34.00	99-07-08 11:30	3	31	3493.8	349.38	0.14	1		
KG0021A01	25.00	34.00	99-07-13 10:00	3	40	3489.5	348.95			 	
KG0021A01	25.00	34.00	99-07-15 15:25	3	41	3490.7	349.07	0.12	1		
KG0021A01	25.00	34.00	99-08-26 13:05	3	50	3484.4	348.44				
KG0021A01	25.00	34.00	99-09-01 14:08	3	51	3494 8	349 48	1 04		 	
KG0021A01	25.00	34.00	99-09-14 08:30	3	60	3402.2	340.00	1.07		 	
KG0021401	25.00	34.00	00 00 10 04.55	3	00	3492.2	349.22			 	i
KC0021AU1	20.00	34.00	99-09-18 21:55	3	61	3490.3	349.03	-0.18	-1		
NGVUZ IAU1	<b>∠</b> 5.00	34.00	99-12-01 00:00	3	62	3421.5	342.15			 	
					1						
KG0021A01	17.00	24.00	99-06-15 00:00	4	00						
KG0021A01	17.00	24.00	99-06-19 17:55	4	10	3315.2	331.52			 	
KG0021A01	17.00	24.00	99-06-22 21:32	4	11	3310.1	331 01	0.30		 	
KG0021401	17.00	24.00	00.08.30.09.00			2217.7	001.91	0.09	1	 	
KCDO24A04	17.00	24.00	39-00-30 08:00	4	20	3317.7	331.77			 	
KG0021A01	17.00	24.00	99-07-02 21:25	4	21	3315.0	331.50	-0.27	-1	 	
KG0021A01	17.00	24.00	99-07-05 16:50	4	30	3311.7	331.17				
KG0021A01	17.00	24.00	99-07-08 11:30	4	31	3310.5	331.05	-0.12	-1		
KG0021A01	17.00	24.00	99-07-13 10:00	4	40	3306.4	330.64				
KG0021A01	17.00	24.00	99-07-15 15:25		A1	3306.8	330 69	0.04		 	
					-+1	3300.0	00.06	U.U4			

Pressure in I	oreholes	during dril	ling of deposition	holes	[			1	dP		1	1
Bhname	Secup	seclow	Date time	Bh sect no	Pindex	P (kPa)	P (m)	dP(X1-X0)(m)	-1=1=+		+	
KG0021A01	17.00	24.00	99-08-26 13:05	4	50	3300.0	330.00					
KG0021A01	17.00	24.00	99-09-01 14:08		51	3305.2	330.52	0.51			1	
KG0021401	17.00	24.00	00.00 14 08:20		51	3303.2	330.32	0.51				
KG0021A01	17.00	24.00	99-09-14 08:30	•	60	3298.0	329.80				<b>_</b>	
K00021A01	17.00	24.00	99-09-18 21:55	4	61	3295.7	329.57	-0.23	-1			
KGUUZIAUI	17.00	24.00	99-12-01 00:00	4	62	3232.1	323.21					
KG0021A01	4.00	16.00	99-06-15 00:00	5	00							
KG0021A01	4.00	16.00	99-06-19 17:55	5	10	2308.9	230.89					
KG0021A01	4.00	16.00	99-06-22 21:32	5	11	2303.0	230.30	-0.59	-1			
KG0021A01	4.00	16.00	99-06-30 08:00	5	20	2301.1	230.11					
KG0021A01	4.00	16.00	99-07-02 21:25	5	21	2298.5	229.85	-0.27	-1		1	
KG0021A01	4.00	16.00	99-07-05 16:50	5	30	2295.0	229.50				1	
KG0021A01	4.00	16.00	99-07-08 11:30	5	31	2280 7	228.07	-1 43	-1			+
KG0021A01	4.00	16.00	99-07-13 10:00	5	40	2282.0	228.20					+
KG0021A01	4.00	16.00	99-07-15 15:25	5	41	2280.1	228.04	0.49				
KG0021A01	4.00	16.00	99-08-26 13:05	5	50	2200.1	220.01	-0.10				
KG0021A01	4.00	16.00	00.00.04.14.09	5	50	2200.1	220.01					
KG0021A01	4.00	10.00	99-09-01 14.08		51	2204.4	226.44	-0.16				
KG0021A01	4.00	16.00	99-09-14 08:30	5	60	2254.0	225.40					
KG0021A01	4.00	16.00	99-09-18 21:55	5	61	2250.3	225.03	-0.37	-1			
KG0021A01	4.00	16.00	99-12-01 00:00	5	62	2211.6	221.16					
		l										
KG0048A01	49.00	54.69	99-06-15 00:00	1	00	3849.8	384.98					
KG0048A01	49.00	54.69	99-06-19 17:55	1	10	3861.0	386.10					1
KG0048A01	49.00	54.69	99-06-22 21:32	1	11	3862.3	386.23	0.12	1			1
KG0048A01	49.00	54.69	99-06-30 08:00	1	20	3862.9	386.29				<u> </u>	<u>+</u>
KG0048A01	49.00	54.69	99-07-02 21-25	1	21	3860 4	386 04	_n 25	1			<u> </u>
KG0048A01	49.00	54.69	99-07-05 16:50	1	30	3858.0	385.80	-0.20				<u> </u>
KG0048A01	49.00	54 80	99-07-08 11-20	4	30	0.0000	205.00		· · · · · · · · · · · · · · · · · · ·		<u>├</u>	
KG0048404	40.00	54 50	00 07 43 40:00		31	3039.4	363.94	0.14	1			
KC0048401	49.00	54.09	99-07-13 10:00	1	40	3856.7	385.67					
KGUU48AU1	49.00	54.69	99-07-15 15:25	1	41	3855.5	385.55	-0.12	-1			
KG0048A01	49.00	54.69	99-08-26 13:05	1	50	3842.2	384.22					
KG0048A01	49.00	54.69	99-09-01 14:08	1	51	3835.4	383.54	-0.68	-1			
KG0048A01	49.00	54.69	99-09-14 08:30	1	60	3829.5	382.95					
KG0048A01	49.00	54.69	99-09-18 21:55	1	61	3825.6	382.56	-0.39	-1			
KG0048A01	49.00	54.69	99-12-01 00:00	1	62	3834.0	383.40					
KG0048A01	41.00	48.00	99-06-15 00:00	2	00	3622.4	362.24					
KG0048A01	41.00	48.00	99-06-19 17:55	2	10	3639.1	363.01					
KG0048A01	41.00	48.00	99-06-22 21:32	2	10	2620.2	363.91	0.00				
KG0048401	41.00	49.00	00.06.20.09:00	2		3039.3	303.93	0.02	1	- ·		
KGOOARADI	41.00	48.00	99-00-30 08.00	2	20	3638.9	363.89					
KG0040A01	41.00	46.00	99-07-02 21:25	2	21	3634.0	363.40	-0.49	-1			
KG0048A01	41.00	48.00	99-07-05 16:50	2	30	3632.6	363.26					
KG0048A01	41.00	48.00	99-07-08 11:30	2	31	3632.8	363.28	0.02	1			
KG0048A01	41.00	48.00	99-07-13 10:00	2	40	3628.5	362.85					
KG0048A01	41.00	48.00	99-07-15 15:25	2	41	3625.6	362.56	-0.29	-1			
KG0048A01	41.00	48.00	99-08-26 13:05	2	50	3601.5	360.15					
KG0048A01	41.00	48.00	99-09-01 14:08	2	51	3595.4	359.54	-0.61	-1			
KG0048A01	41.00	48.00	99-09-14 08:30	2	60	3585.1	358.51					
KG0048A01	41.00	48.00	99-09-18 21:55	2	61	3581.0	358 10	-0.41	-1			
KG0048A01	41.00	48.00	99-12-01 00·00	2	62	3577 1	357 71	-0.11				
						0011.1	007.71					
KG0048A01	30.00	40.00	99.06.15.00:00		00	2668.0						
KG0048401	30.00	40.00	00.06 10 47.55	- 3		3066.0	300,80					
KC0048A01	30.00	40.00	99-00-19 17:55	3	01	3706.3	370.63					
KG0046A01	30.00	40.00	99-06-22 21:32	3	11	3707.3	370.73	0.10	1			
NG0048A01	30.00	40.00	99-06-30 08:00	3	20	3706.9	370.69					
KG0048A01	30.00	40.00	99-07-02 21:25	3	21	3702.8	370.28	-0.41	-1			
KG0048A01	30.00	40.00	99-07-05 16:50	3	30	3700.3	370.03					
KG0048A01	30.00	40.00	99-07-08 11:30	3	31	3700.5	370.05	0.02	1			
KG0048A01	30.00	40.00	99-07-13 10:00	3	40	3697.1	369.71					
KG0048A01	30.00	40.00	99-07-15 15:25	3	41	3695.8	369.58	-0.12	-1			
KG0048A01	30.00	40.00	99-08-26 13:05	3	50	3684.8	368.48		-			
KG0048A01	30,00	40.00	99-09-01 14:08	3	51	3684.6	368 46	-0.02	.1			
KG0048A01	30.00	40.00	99-09-14 08:30	3	60	3679.6	367.96	-0.02				
KG0048A01	30.00	40.00	99.09.18 21:55	3	61	3678.8	307.50					
KG0048401	30.00	40.00	00 12 01 00:00		01	30/0.0	367.68	-0.29	-1			
100010/01	50.00	40.00	99-12-01 00:00	- 3	62	3659.6	365.96					
KGOMANA	4.00		00.05									
KO0046AU1	4.00	29.00	99-06-15 00:00	4	00	2932.7	293.27					
KG0048A01	4.00	29.00	99-06-19 17:55	4	10	2250.5	225.05					
KG0048A01	4.00	29.00	99-06-22 21:32	4	11	2242.9	224.29	-0.76	-1			
KG0048A01	4.00	29.00	99-06-30 08:00	4	20	2237.0	223.70					
KG0048A01	4.00	29.00	99-07-02 21:25	4	21	2233.5	223.35	-0.35	-1	[		
KG0048A01	4.00	29.00	99-07-05 16:50	4	30	2229.6	222.96					
KG0048A01	4.00	29.00	99-07-08 11:30	4	31	2216.3	221.63	-1 33	_1			
KG0048A01	4.00	29.00	99-07-13 10:00	4	40	2216.9	221 60		·			
KG0048A01	4.00	29.00	99-07-15 15:25		A1	2214 7	221.00	.0.22				I
KG0048A01	4.00	29.00	99-08-26 12:05		F0	2400 7	240.07	-0.23	+1			{
KG0048401	4.00	20.00	00.00.01 44:00			2190.1	219.0/					
KODO48A04	4.00	29.00	99-09-01 14:08	4	51	2196.9	219.69	-0.18	-1			
KOORIGUE	4.00	29.00	99-09-14 08:30	4	60	2186.4	218.64					
KG0048A01	4.00	29.00	99-09-18 21:55	4	61	2182.9	218.29	-0.35	-1			
KG0048A01	4.00	29.00	99-12-01 00:00	4	62	2214.1	221.41					

# Plots of data for pressure registration in observation sections during drilling of deposition holes – pressure differences between start of drilling and end of drilling period for each deposition borehole

Bhsect	Borehole section number of observation borehole			
Pindex	Occurring event			
	• 00 = undisturbed situation before drilling			
	• 10 – 11 = drilling of dep hole 1			
	• 20 – 21 = drilling of dep hole 2			
	• 30 – 31 = drilling of dep hole 3			
	• 40 – 41 = drilling of dep hole 4			
	• 50 – 51 = drilling of dep hole 5			
	• 60 – 61 = drilling of dep hole 6			
	• 62 = undisturbed situation after drilling			



 $/1310241/data {\it bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3510A.GRF$ 



/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3539G.GRF



/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3542G1.GRF



 $/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3542G2.GRF$ 



 $/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3542G2b.GRF$ 



 $\label{eq:constraint} \textit{/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3544G1.GRF}$ 



 $/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3546G1.GRF$ 



 $/1310241/data / bholeb03/Deposition holes_characterisation/Diagram_pressresp_dephole/KA3548A1.GRF$ 



/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3548G1_GRF



 $/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3550G1.GRF$ 



 $\label{eq:constraint} \textit{/}1310241\textit{/}data\textit{/}bholeb03\textit{/}Depositionholes_characterisation\textit{/}Diagram_pressresp_dephole\textit{/}KA3552G1.GRF}$ 



/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3554G1.GRF



/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3554G2.GRF



Level of water in deposition boreholes during the studied period



/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3557G.GRF



 $/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3563G1.GRF$ 



/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3566G1.GRF



 $\label{eq:constraint} \textit{/}1310241\textit{/}data\textit{/}bholeb03\textit{/}Depositionholes_characterisation\textit{/}Diagram_pressresp_dephole\textit{/}KA3566G2.GRF$ 



 $/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3572G1.GRF$ 



/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3573A.GRF


 $/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3574G1.GRF$ 



 $/1310241 / data / bholeb03 / Deposition holes_characterisation / Diagram_pressresp_dephole / KA3576G1.GRF$ 



/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3578G1.GRF



 $/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3579G1.GRF$ 



 $/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3584G1.GRF$ 



 $/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3590G1.GRF$ 



/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3590G2.GRF



/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3590G2b.GRF



 $/1310241 / data / bholeb03 / Deposition holes_characterisation / Diagram_pressresp_dephole / KA3593G1.GRF / Diagram_pressresp_dephole / Diagram_pressresp_dephole / KA3593G1.GRF / Diagram_pressresp_dephole / Diagram_pressresp_dephole / KA3593G1.GRF / Diagram_pressresp_dephole / Diagram_pressresp_dada / Diagram_pressresp_dephole / Diagram_pressresp_dada$ 



 $/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KA3600F.GRF$ 



 $/1310241/data {\it bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KG0021A1.GRF$ 



 $/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KG0021A1b.GRF$ 



 $/1310241/data/bholeb03/Depositionholes_characterisation/Diagram_pressresp_dephole/KG0048A1.GRF$ 

# APPENDIX 2 – Measurement of inflow rates to deposition hole DA3581G01 using diapers

This appendix includes the details of the diaper measurement of DA3581G01 as described in chapter 5.2.2 and consists of three parts:

- 1. Flow measurements using diapers
- 2. Hydraulic conductivity estimations
- 3. Statistics of hydraulic conductivity estimations

Part 1	Flow measurements using diapers
Plank	The plank number
Diaper	The diaper number applied downwards
O_length	The "length" following the borehole circumference starting at centreline of the tunnel facing east and running clock-wise
Depth	Centre of each diaper at borehole depth
Date_start	Start of measurement
Weight_start	Weight of diaper at the start of the measurement, grams
Date_end	Stop of measurement
Weight_end	Weight of diaper at the end of the measurement, grams
Weight_diff	Difference in weight between start and stop time, grams
Q_corrected	The calculated flowrate of each area covered by a diaper, $m^3/s$ , after reducing the weight_diff with the reference value 10 grams.
Q_corrected	The calculated flowrate of each area covered by a diaper, l/min, after reducing the weight_diff with the reference value 10 grams.
Meas1 – Meas2	Difference in measurement of flow at specific positions in borehole , l/min.
Meas1/Meas2	Difference in measurement of flow at specific positions in borehole, %.

Plank	Diaper	O_iength (m)	Depth (m)	Date_start	Weight_start (g)	Date_end	Weight_end (9)	Weight_diff (g)	Q_corrected (m³/s)	Q_corrected (l/min)
A1		0	1 065	2000 07 04 11:00	41.62	2000 07 11 10:00	64.43	22 E	2 095 11	1 255 05
A1	2	å	-1.005	2000-07-04 11:00	41.82	2000-07-11 10:00	66.42	24.5	2.00E-11	1.46E-06
A1	3	ő	-1.695	2000-07-04 11:00	40.30	2000-07-11 10:00	62.25	24.0	1.99E-11	1.19E-06
A1	4	0	-2.01	2000-07-04 11:00	43.27	2000-07-11 10:00	67.96	24.69	2.44E-11	1.47E-06
A1	5	0	-2.325	2000-07-04 11:00	43.37	2000-07-11 10:00	68.70	25.33	2.55E-11	1.53E-06
A1	6	0	-2.64	2000-07-04 11:00	40.37	2000-07-11 10:00	63.93	23.56	2.26E-11	1.35E-06
A1	7	0	-2.955	2000-07-04 11:00	43.15	2000-07-11 10:00	64.83	21.68	1.94E-11	1.17E-06
A1	8	0	-3.27	2000-07-04 11:00	41.07	2000-07-11 10:00	59.63	18.56	1.42E-11	8.54E-07
A1	9	0	-3.585	2000-07-04 11:00	40.82	2000-07-11 10:00	64.44	23.62	2.27E-11	1.36E-06
B1	1	0.22	-1.065	2000-07-04 11:00	43.41	2000-07-11 10:00	61.16	17.75	1.29E-11	7.73E-07
B1	2	0.22	-1.30	2000-07-04 11:00	44./9	2000-07-11 10:00	64.01	19.22	1.53E-11	9.20E-07
B1	4	0.22	-2.01	2000-07-04 11:00	43.08	2000-07-11 10:00	58.60	15.52	9 185-12	5.51E-07
B1	5	0.22	-2.325	2000-07-04 11:00	42.07	2000-07-11 10:00	56.95	14.88	8 12E-12	4 87E-07
BI	6	0.22	-2.64	2000-07-04 11:00	46.33	2000-07-11 10:00	65.95	19.62	1.60E-11	9.60E-07
B1	7	0.22	-2.955	2000-07-04 11:00	38.96	2000-07-11 10:00	57.61	18.65	1.44E-11	8.63E-07
B1	8	0.22	-3.27	2000-07-04 11:00	42.90	2000-07-11 10:00	56.79	13.89	6.47E-12	3.88E-07
B1	9	0.22	-3.585	2000-07-04 11:00	45.55	2000-07-11 10:00	60.79	15.24	8.72E-12	5.23E-07
C1	1	0.44	-1.065	2000-07-04 11:00	42.25	2000-07-11 11:00	58.00	15.75	9.51E-12	5.70E-07
C1	2	0.44	-1.38	2000-07-04 11:00	48.65	2000-07-11 11:00	64.10	15.45	9.01E-12	5.41E-07
C1	3	0.44	-1.695	2000-07-04 11:00	47.72	2000-07-11 11:00	61.23	13.51	5.80E-12	3.48E-07
C1	-	0.44	-2.01	2000-07-04 11:00	45.57	2000-07-11 11:00	57.87	12.3	3.80E-12	2.28E-07
C1	5	0.44	-2.323	2000-07-04 11:00	40.10	2000-07-11 11:00	62.69	10.51	1.06E-11	6.46E-07
CI	7	0.44	-2.955	2000-07-04 11:00	40.20	2000-07-11 11:00	60.10	20.5	2.73E-11	9.82E-00
Ci	8	0.44	-3 27	2000-07-04 11:00	43.50	2000-07-11 11:00	55 37	11.87	3.09E-12	1.86E-07
C1	9	0.44	-3.585	2000-07-04 11:00	44.39	2000-07-11 11:00	57.03	12.64	4.37E-12	2.62E-07
D1	1	0.66	-1.065	2000-07-04 11:00	44.33	2000-07-11 11:00	59.10	14.77	7.89E-12	4.73E-07
D1	2 .	0.66	-1.38	2000-07-04 11:00	46.12	2000-07-11 11:00	57.32	11.2	1.98E-12	1.19E-07
D1	3	0.66	-1.695	2000-07-04 11:00	42.06	2000-07-11 11:00	53.79	11.73	2.86E-12	1.72E-07
D1	4	0.66	-2.01	2000-07-04 11:00	43.56	2000-07-11 11:00	56.15	12.59	4.28E-12	2.57E-07
D1	5	0.66	-2.325	2000-07-04 11:00	43.83	2000-07-11 11:00	57.69	13.86	6.38E-12	3.83E-07
D1	6	0.66	-2.64	2000-07-04 11:00	42.67	2000-07-11 11:00	58.14	15.47	9.04E-12	5.43E-07
D1	7	0.66	-2.955	2000-07-04 11:00	42.53	2000-07-11 11:00	55.78	13.25	5.37E-12	3.22E-07
D1	8	0.66	-3.27	2000-07-04 11:00	40.06	2000-07-11 11:00	50.25	10.19	3.14E-13	1.88E-08
	3	0.00	-3.303	2000-07-04 11:00	42.32	2000-07-11 11.00	53.50	10.04	1.005-12	0.552-06
E1	1	0.88	-1.065	2000-07-04 11:00	41.10	2000-07-11 11:00	58.08	16.98	1.15E-11	6.92E-07
E) E1	2	0.00	-1.30	2000-07-04 11:00	42.43	2000-07-11 11:00	56.31	13.86	0.42E-12	3.85E-U/
E1	4	0.00	-1.055	2000-07-04 11:00	43.01	2000-07-11 11:00	51.54	0.55	5.055 13	3.57E 08
EI	5	0.88	-2 325	2000-07-04 11:00	44.67	2000-07-11 11:00	56 48	11.81	2 995-12	1 80F-07
E1	6	0.88	-2.64	2000-07-04 11:00	40,96	2000-07-11 11:00	50.79	9.83	-2.81E-13	-1.69E-08
E1	7	0.88	-2.955	2000-07-04 11:00	40.47	2000-07-11 11:00	50.24	9.77	-3.80E-13	-2.28E-08
E1	8	0.88	-3.27	2000-07-04 11:00	44.09	2000-07-11 11:00	54.33	10.24	3.97E-13	2.38E-08
E1	9	0.88	-3.585	2000-07-04 11:00	45.30	2000-07-11 11:00	57.03	11.73	2.86E-12	1.72E-07
Fi	1	1.1	-1.065	2000-07-04 11:00	39.95	2000-07-11 11:00	67.21	27.26	2.85E-11	1.71E-06
F1	2	1.1	-1.38	2000-07-04 11:00	40.84	2000-07-11 11:00	61.83	20.99	1.82E-11	1.09E-06
F1	3	1.1	-1.695	2000-07-04 11:00	42.01	2000-07-11 11:00	52.79	10.78	1.29E-12	7.74E-08
F1	4	1.1	-2.01	2000-07-04 11:00	44.59	2000-07-11 11:00	56.01	11.42	2.35E-12	1.41E-07
F1	5	1.1	-2.325	2000-07-04 11:00	45.95	2000-07-11 11:00	58,88	12.93	4.84E-12	2.91E-07
F1	6	1.1	-2.64	2000-07-04 11:00	42.75	2000-07-11 11:00	53.27	10.52	8.60E-13	5.16E-08
F1		1.1	-2.955	2000-07-04 11:00	44.03	2000-07-11 11:00	54.64	10.61	1.01E-12	6.05E-08
F1 F1	9	1.1	-3.27 -3.585	2000-07-04 11:00 2000-07-04 11:00	46.13 44.90	2000-07-11 11:00 2000-07-11 11:00	57.33 58.44	11.2 13.54	1.98E-12 5.85E-12	1.19E-07 3.51E-07
G1	1	1.32	-1.065	2000-07-04 11:00	43.51	2000-07-11 11:00	64.31	20 8	1 795-11	1075-06
G1	2	1.32	-1.38	2000-07-04 11-00	43.99	2000-07-11 11:00	71 40	23.0	2 RRF_11	1735-06
G1	3	1.32	-1.695	2000-07-04 11:00	39.44	2000-07-11 11:00	51.21	11.77	2,93E-12	1.76F-07
Gt	4	1.32	-2.01	2000-07-04 11:00	41.63	2000-07-11 11:00	52.73	11.1	1.82E-12	1.09E-07
G1	5	1.32	-2.325	2000-07-04 11:00	40,74	2000-07-11 11:00	54.09	13.35	5.54E-12	3.32E-07
G1	6	1.32	-2.64	2000-07-04 11:00	43.69	2000-07-11 11:00	58.86	15.17	8.55E-12	5.13E-07
G1	7	1.32	-2.955	2000-07-04 11:00	43.30	2000-07-11 11:00	54.29	10.99	1.64E-12	9.82E-08
G1	8	1.32	-3.27	2000-07-04 11:00	44.09	2000-07-11 11:00	56.91	12.82	4.66E-12	2.80E-07
G1	9	1.32	-3.585	2000-07-04 11:00	44.31	2000-07-11 11:00	55.56	11.25	2.07E-12	1.24E-07
н	1	1.54	-1.065	2000-07-04 11:00	46.86	2000-07-11 11:00	63.86	17	1.16E-11	6.94E-07
H1	2	1.54	-1.38	2000-07-04 11:00	44.70	2000-07-11 11:00	64.16	19.46	1.56E-11	9.38E-07
H1	3	1.54	-1.695	2000-07-04 11:00	42.10	2000-07-11 11:00	53.72	11.62	2.68E-12	1.61E-07
H1	4	1.54	-2.01	2000-07-04 11:00	40.76	2000-07-11 11:00	49.78	9.02	-1.62E-12	-9.72E-08
Ht	5	1.54	-2.325	2000-07-04 11:00	40.25	2000-07-11 11:00	52.76	12.51	4.15E-12	2.49E-07
H1	6	1.54	-2.64	2000-07-04 11:00	44.86	2000-07-11 11:00	60.91	16.05	1.00E-11	6.00E-07
п) Ці	-	1.54	-2.955	2000-07-04 11:00	38.72	2000-07-11 11:00	48.24	9.52	-7.94E-13	-4.76E-08
н	9	1.54	-3.27 -3.585	2000-07-04 11:00 2000-07-04 11:00	42.66 45.36	2000-07-11 11:00 2000-07-11 11:00	53.53 57.64	10.87 12.28	1.44E-12 3.77E-12	8.63E-08 2.26E-07
11	4	1 7e	-1.065	2000-07-04 44-00	46.22	2000 07 11 11:00	70.35	24.42	2 225 44	1.405.00
	2	1.76	-1.38	2000-07-04 11:00	43.90	2000-07-11 11:00	70.30 59 10	15.2	2.33E-11 8.60E-12	5.16F-00
It	3	1.76	-1.695	2000-07-04 11:00	44.30	2000-07-11 11:00	55.49	11.19	1.97E-12	1,18E-07
11	4	1.76	-2.01	2000-07-04 11:00	44,83	2000-07-11 11:00	59.79	14.96	8.20E-12	4.92E-07
11	5	1.76	-2.325	2000-07-04 11:00	42.04	2000-07-11 11:00	57.10	15.06	8.37E-12	5.02E-07
11	6	1.76	-2.64	2000-07-04 11:00	43.08	2000-07-11 11:00	58.65	15.57	9.21E-12	5.53E-07

Plank	Diaper	O length	Depth	Date start	Weight start	Date end	Weight end	Weight diff	Q corrected	O corrected
		(m)	(m)		(g)		(g)	(g)	(m ³ /s)	(l/min)
н	7	1.76	-2.955	2000-07-04 11:00	41.09	2000-07-11 11:00	52.21	11.12	1.85E-12	1.11E-07
11	8	1.76	-3.27	2000-07-04 11:00	42.63	2000-07-11 11:00	54.09	11.46	2.41E-12	1.45E-07
11	9	1.76	-3.585	2000-07-04 11:00	43.03	2000-07-11 11:00	56.09	13.06	5.06E-12	3.04E-07
Л	1	1 98	-1.065	2000-07-04 12:00	42 59	2000-07-11 11:00	123 27	80.68	1 18E-10	7 05E-06
JI	2	1 98	-1 38	2000-07-04 12:00	43.53	2000-07-11 11:00	64.04	20.51	1.75E-11	1.05E-06
.11	-	1 98	-1 695	2000-07-04 12:00	43.73	2000-07-11 11:00	58.00	14 77	7 105-17	A 26E-07
11	Å	1 98	-7.035	2000-07-04 12:00	42.21	2000-07-11 11:00	56 50	14.20	7.102-12	4.202-07
14	-	1.30	2.01	2000-07-04 12:00	42.21	2000-07-11 11.00	50.50	14.29	1.146-12	4.28E-07
34	5	1.96	-2.325	2000-07-04 12:00	43.00	2000-07-11 11:00	55.05	11.17	1.95E-12	1.1/E-0/
J1		1.90	-2.04	2000-07-04 12:00	44.14	2000-07-11 11:00	55.00	10.86	1.43E-12	8.58E-08
J1	,	1.98	-2.955	2000-07-04 12:00	37.50	2000-07-11 11:00	47.29	9.79	-3.49E-13	-2.10E-08
J1	° 9	1.96	-3.27 -3.585	2000-07-04 12:00	42.60	2000-07-11 11:00	53.28	10.68	1.13E-12 1.71E-12	6./9E-08 1.03E-07
K1	1	2.2	-1.065	2000-07-04 12:00	45.00	2000-07-11 11:00	180.13	135.13	2.08E-10	1.25E-05
K1	2	2.2	1 605	2000-07-04 12:00	40.00	2000-07-11 13:00	63.92	10.27	1.30E-11	6.25E-07
	3	2.2	-1.095	2000-07-04 12:00	43.09	2000-07-11 11:00	55.35	11.40	2.43E-12	1.46E-07
	2	2.2	-2.01	2000-07-04 12:00	42.30	2000-07-11 11:00	52.52	9.94	-9.900-14	-2'AAE-0A
KI KI	5	2.2	-2.325	2000-07-04 12:00	45.53	2000-07-11 11:00	56.04	10.51	8.48E-13	5.09E-08
KI KA	-	2.2	-2.04	2000-07-04 12:00	44.43	2000-07-11 11:00	54.51	10.08	1.33E-13	7.98E-09
K1		2.2	-2.955	2000-07-04 12:00	45.17	2000-07-11 11:00	56.21	11.04	1.73E-12	1.04E-07
K1 K1	5	2.2	-3.27	2000-07-04 12:00	41.18	2000-07-11 11:00	50.82	9.64	-5.99E-13	-3.59E-08
			0.000	2000-01-04 12:00	40.00	2000-07-11 11.00	57.57	12.54	3.650-12	2.346-07
L1	1	2.42	-1.065	2000-07-04 12:00	43.41	2000-07-11 11:00	206.85	163.44	2.55E-10	1.53E-05
L1	2	2.42	-1.38	2000-07-04 12:00	46.21	2000-07-11 11:00	65.31	19.1	1.51E-11	9.08E-07
L1	3	2.42	-1.695	2000-07-04 12:00	44.23	2000-07-11 11:00	56.96	12.73	4.54E-12	2.72E-07
u	4	2.42	-2.01	2000-07-04 12:00	45.05	2000-07-11 11:00	55.27	10.22	3.66E-13	2.20E-08
L1	5	2.42	-2.325	2000-07-04 12:00	41.54	2000-07-11 11:00	51.02	9.48	-8.65E-13	-5.19E-08
LI	6	2.42	-2.64	2000-07-04 12:00	42.54	2000-07-11 11:00	52.00	9.46	-8.98E-13	-5.39E-08
L1	7	2.42	-2.955	2000-07-04 12:00	44.82	2000-07-11 11:00	55.04	10.22	3.66E-13	2.20E-08
L1	8	2.42	-3.27	2000-07-04 12:00	44.54	2000-07-11 11:00	54.45	9.91	-1.50E-13	-8.98E-09
LI	9	2.42	-3.585	2000-07-04 12:00	44.50	2000-07-11 11:00	50.40	5.9	-6.82E-12	-4.09E-07
M1	1	2.64	-1.065	2000-07-04 12:00	43.48	2000-07-11 11:00	64.44	20.96	1.82E-11	1.09E-06
M1	2	2.64	-1.38	2000-07-04 12:00	44.98	2000-07-11 11:00	59.41	14.43	7.37E-12	4.42E-07
M1	3	2.64	-1.695	2000-07-04 12:00	43.63	2000-07-11 11:00	54.12	10.49	8.15E-13	4.89E-08
М1	4	2.64	-2.01	2000-07-04 12:00	43.18	2000-07-11 11:00	53.77	10.59	9.81E-13	5.89E-08
M1	5	2.64	-2.325	2000-07-04 12:00	47.37	2000-07-11 11:00	57.62	10.25	4.16E-13	2.50E-08
M1	6	2.64	-2.64	2000-07-04 12:00	47.84	2000-07-11 11:00	58.54	10.7	1.16E-12	6.99E-08
M1	7	2.64	-2.955	2000-07-04 12:00	45.88	2000-07-11 11:00	56.71	10.83	1.38E-12	8.28E-08
M1	8	2.64	-3.27	2000-07-04 12:00	44.43	2000-07-11 11:00	56.39	11.96	3.26E-12	1.96E-07
M1	9	2.64	-3.585	2000-07-04 12:00	46.66	2000-07-11 11:00	57.57	10.91	1.51E-12	9.08E-08
N1		7.86	1.065	2000 07 04 12:00	47 73	2000 07 11 11.00	67.34	40.58		A 605 A7
NI4	,	2.00	4.20	2000-07-04 12.00	47.73	2000-07-11 11.00	67.31	19.56	1.595-11	9.56E-07
111	2	2.00	-1.30	2000-07-04 12:00	40.00	2000-07-11 11:00	59.00	12.12	3.53E-12	2.12E-07
N1	3	2.86	-1.695	2000-07-04 12:00	45.23	2000-07-11 11:00	56.09	10.86	1.43E-12	8.58E-08
N1	•	2.86	-2.01	2000-07-04 12:00	43.92	2000-07-11 11:00	54.13	10.21	3.49E-13	2.10E-08
NI	5	2.86	-2.325	2000-07-04 12:00	46.05	2000-07-11 11:00	56.23	10.18	2.99E-13	1.80E-08
N 1	6	2.00	-2.64	2000-07-04 12:00	44.51	2000-07-11 11:00	54.43	9.92	-1.33E-13	-7.98E-09
N1		2.86	-2.955	2000-07-04 12:00	42.08	2000-07-11 11:00	52.13	10.05	8.32E-14	4.99E-09
N1 NH	•	2.86	-3.2/	2000-07-04 12:00	42.77	2000-07-11 11:00	52.09	9.32	-1.13E-12	-6.79E-08
111	9	2.86	-3.585	2000-07-04 12:00	47.29	2000-07-11 11:00	59.33	12.04	3.39E-12	2.04E-07
Ot	1	3.08	-1.065	2000-07-04 12:00	45.65	2000-07-11 12:00	59.46	13.81	6.30E-12	3.78E-07
01	2	3.08	-1.38	2000-07-04 12:00	45.63	2000-07-11 12:00	57.60	11.97	3.26E-12	1.95E-07
01	3	3.08	-1.695	2000-07-04 12:00	46.83	2000-07-11 12:00	57.62	10.79	1.31E-12	7.84E-08
01	4	3.08	-2.01	2000-07-04 12:00	45.19	2000-07-11 12:00	55.62	10.43	7.11E-13	4.27E-08
01	5	3.08	-2.325	2000-07-04 12:00	46.09	2000-07-11 12:00	56.11	10.02	3.31E-14	1.98E-09
01	6	3.08	-2.64	2000-07-04 12:00	44.07	2000-07-11 12:00	54.19	10.12	1.98E-13	1.19E-08
01	7	3.08	-2.955	2000-07-04 12:00	49.19	2000-07-11 12:00	61.74	12.55	4.22E-12	2.53E-07
01	8	3.08	-3.27	2000-07-04 12:00	52.58	2000-07-11 12:00	65.58	13	4.96E-12	2.98E-07
01	9	3.08	-3.585	2000-07-04 12:00	46.20	2000-07-11 12:00	57.67	11.47	2.43E-12	1.46E-07
D4	4		1.005	2000 07 04 /5 55		2000 17 11 1	<i></i>			
F 1		3.3	-1.005	2000-07-04 12:00	41.41	2000-07-11 12:00	59.87	18.46	1.40E-11	8.39E-07
F 1 D+	~	3.3	-1.35	2000-07-04 12:00	37.82	2000-07-11 12:00	51.55	13.73	6.17E-12	3.70E-07
P1	3	3.3	-1.695	2000-07-04 12:00	40.45	2000-07-11 12:00	53.30	12.85	4.71E-12	2.83E-07
P1	4	3.3	-2.01	2000-07-04 12:00	42.05	2000-07-11 12:00	53.81	11.76	2.91E-12	1.75E-07
F1	5	3.3	-2.325	2000-07-04 12:00	39.47	2000-07-11 12:00	49.11	9.64	-5.95E-13	-3.57E-08
F1	7	3.3	-2.64	2000-07-04 12:00	41.12	2000-07-11 12:00	51,48	10.36	5.95E-13	3.57E-08
F1		3.3	-2.955	2000-07-04 12:00	41.18	2000-07-11 12:00	51.95	10.77	1.2/E-12	7.64E-08
P1	8 9	3.3 3.3	-3.27 -3.585	2000-07-04 12:00 2000-07-04 12:00	40.98	2000-07-11 12:00	51.69 52.61	10.71	1.17E-12	7.04E-08
	-		2.000	2000 01 04 12.00	55.00	2000-07-11 12.00	52.01	14.33		2.355-01
Q1	1	3.52	-1.065	2000-07-04 12:00	38.01	2000-07-11 12:00	45.29	7.28	-4.50E-12	
Q1	2	3.52	-1.38	2000-07-04 12:00	41.55	2000-07-11 12:00	58.34	16.79	1.12E-11	
Q1	3	3.52	-1.695	2000-07-04 12:00	39.79	2000-07-11 12:00	58.48	18.69	1.44E-11	
Q1	4	3.52	-2.01	2000-07-04 12:00	41.58	2000-07-11 12:00	58.22	16.64	1.10E-11	
Q1	5	3.52	-2.325	2000-07-04 12:00	39.69	2000-07-11 12:00	57.05	17.36	1.22E-11	
Q1	6	3.52	-2.64	2000-07-04 12:00	41.84	2000-07-11 12:00	59.90	18.06	1.33E-11	
Q1	7	3.52	-2.955	2000-07-04 12:00	41.17	2000-07-11 12:00	54.37	13.2	5.29E-12	
Q1	8	3.52	-3.27	2000-07-04 12:00	41.86	2000-07-11 12:00	54.30	12.44	4.03E-12	
Q1	9	3.52	-3.585	2000-07-04 12:00	41.89	2000-07-11 12:00	57.32	15.43	8.98E-12	
R1	4	3 74	.1 005	2000.07.04.40.00	24.20	2000 07 44 40 00	150 50	, or 1-	4 005 45	
R1	,	3.74	-1.005	2000-07-04 12:00	34.39	2000-07-11 12:00	159.56	125.17	1.90E-10	
D4	-	5.14	-1.36	2000-07-04 12:00	40.42	2000-07-11 12:00	53.00	12.58	4.2/E-12	
<b>NI</b>	3	3.74	-1.095	2000-07-04 12:00	39./3	2000-07-11 12:00	265.63	225.9	3.57E-10	

Plank	Diaper	O_length	Depth	Date_start	Weight_start	Date_end	Weight_end	Weight_diff	Q_corrected	Q_corrected
		(m)	(m)		(g)		(g)	(g)	(m³/s)	(l/min)
R1	4	3.74	-2.01	2000-07-04 12:00	38.54	2000-07-11 12:00	269.77	231.23	3.66E-10	
R1	5	3 74	-2 325	2000-07-04 12:00	42.16	2000-07-11 12:00	236.32	194.16	3.04E-10	
Dt	-	3.74	2.64	2000.07.04 12:00	38.83	2000-07-11 12:00	284 74	245.91	3 90E-10	
	6	3.74	-2.04	2000-07-04 12.00	38.63	2000-07-11 12.00	204.74	243.51	5.00E-10	
RI	'	3.74	-2.955	2000-07-04 12:00	40.89	2000-07-11 12:00	304.70	203.01	4.202-10	
R1	8	3.74	-3.27	2000-07-04 12:00	38.36	2000-07-11 12:00	253.60	215.24	3.39E-10	
R1	9	3.74	-3.585	2000-07-04 12:00	40.98	2000-07-11 12:00	243.51	202.53	3.18E-10	
S1	1	3.96	-1.065	2000-07-04 14:00	39.62	2000-07-11 13:00	202.90	163.28	2.55E-10	
S1	2	3.96	-1.38	2000-07-04 14:00	42.03	2000-07-11 13:00	200.86	158.83	2.48E-10	
64	-	3.06	1.005	2000-07-04 14:00	42.00	2000 07 11 12:00	200.00	160.00	2.495 10	
51	3	3.96	-1.695	2000-07-04 14:00	41.14	2000-07-11 13:00	200.42	139.20	2.402-10	
S1	4	3.96	-2.01	2000-07-04 14:00	40.50	2000-07-11 13:00	202.90	162.4	2.53E-10	
S1	5	3.96	-2.325	2000-07-04 14:00	40.50	2000-07-11 13:00	207.08	166.58	2.60E-10	
St	6	3.96	-2.64	2000-07-04 14:00	42.23	2000-07-11 13:00	220.33	178.1	2.80E-10	
S1	7	3 96	-2.955	2000-07-04 14:00	41.82	2000-07-11 13:00	216.84	175.02	2.74E-10	
S1		196	.3.27	2000-07-04 14:00	36.67	2000-07-11 13:00	186 14	149 47	2 325-10	
C 4	°,	3.06	3 696	2000-07-04 14:00	10.65	2000-07-11 13:00	212.02	170.17	2.022 10	
31	3	3.50	-3.365	2000-07-04 14.00	40.05	2000-07-11 13:00	213.03	172.50	2.702-10	
T1	1	4.18	-1.065	2000-07-04 14:00	42.43	2000-07-11 13:00	102.55	60.12	8.34E-11	
T1	2	4 1R	-1 38	2000-07-04 14:00	40.90	2000-07-11 13:00	61.96	21.06	1.84E-11	
	-	4.10	1.505	2000 07 04 14:00	10.00	2000 07 11 12:00	65.05	21.00	2.000 44	
11	3	4.18	-1.695	2000-07-04 14:00	39.06	2000-07-11 13:00	65.05	25.99	2.66E-11	
T1	4	4.18	-2.01	2000-07-04 14:00	39.44	2000-07-11 13:00	61.68	22.24	2.04E-11	
T1	5	4.18	-2.325	2000-07-04 14:00	41.80	2000-07-11 13:00	90.83	49.03	6.49E-11	
T1	6	4.18	-2.64	2000-07-04 14:00	40.99	2000-07-11 13:00	68.64	27.65	2.94E-11	
T1	7	4 18	-2 955	2000-07-04 14:00	A1 76	2000-07-11 13:00	63 79	22.03	2 00E-11	
	,	4.10	2.505	2000 07 04 14:00	47.10	2000 07 44 42 00	00.70	22.00	2.000-11	
n	8	4.18	-3.27	2000-07-04 14:00	41.00	2000-07-11 13:00	63.13	22.13	2.02E-11	
T1	9	4.18	-3.585	2000-07-04 14:00	43.82	2000-07-11 13:00	92.45	48.63	6.43E-11	
111	1		-1 065	2000.07.04 14:00	10 69	2000-07-11 13:00	£1 41	20.72	1 785.44	1 075 00
	-		-1.000	2000-07-04 14:00	-0.00	2000-07-11 13:00	01.41	20.73	1./00-11	1.072-00
01	2	4.4	-1.38	2000-07-04 14:00	41.79	2000-07-11 13:00	62.85	21.06	1.84E-11	1.10E-06
U1	3	4.4	-1.695	2000-07-04 14:00	39.89	2000-07-11 13:00	54.95	15.06	8.42E-12	5.05E-07
U1	4	4.4	-2.01	2000-07-04 14:00	40.21	2000-07-11 13:00	56.98	16.77	1.13E-11	6.76E-07
U1	5	44	-2 325	2000-07-04 14:00	39.78	2000-07-11 13:00	61.87	22.09	2 01E-11	1.21E-06
114			2.64	2000 07 04 44:00	27.54	2000 07 11 12:00	56.05	48.74	4.455.44	8.605.07
	-	•.•	-2.04	2000-07-04 14:00	37.54	2000-07-11 13:00	56.25	10.71	1.400-11	0.09E-07
01	7	4.4	-2.955	2000-07-04 14:00	41,10	2000-07-11 13:00	60.97	19,87	1.64E-11	9.85E-07
Ut	8	4.4	-3.27	2000-07-04 14:00	42.05	2000-07-11 13:00	60.20	18.15	1.36E-11	8.13E-07
UI	9	4.4	-3.585	2000-07-04 14:00	40.92	2000-07-11 13:00	61.37	20.45	1.74E-11	1.04E-06
VI	1	4.02	-1.065	2000-07-04 14:00	42.28	2000-07-11 13:00	69.83	27.55	2.926-11	1.75E-06
V1	2	4.62	-1.38	2000-07-04 14:00	34.38	2000-07-11 13:00	61.10	26.72	2.78E-11	1.67E-06
V1	3	4.62	-1.695	2000-07-04 14:00	43.12	2000-07-11 13:00	61.15	18.03	1.34E-11	8.01E-07
V1	4	4.62	-2.01	2000-07-04 14:00	37.03	2000-07-11 13:00	60.84	23.81	2.30E-11	1.38E-06
V1	5	4.62	-2.325	2000-07-04 14:00	37.46	2000-07-11 13:00	65.18	27.72	2.95E-11	1.77E-06
1/1		4.67	264	2000 07 04 14:00	40.04	2000 07 11 12:00	64.06	24.75	1 055 11	1 175 06
V1	•	4.02	-2.04	2000-07-04 14:00	42.31	2000-07-11 13:00	04.00	21.75	1.935-11	1.17E-00
V1	7	4.62	-2.955	2000-07-04 14:00	39.77	2000-07-11 13:00	54.41	14.64	7.72E-12	4.63E-07
V1	8	4.62	-3.27	2000-07-04 14:00	37.39	2000-07-11 13:00	52.91	15.52	9.18E-12	5.51E-07
VI	9	4.62	-3.585	2000-07-04 14:00	39.07	2000-07-11 13:00	57.56	18.49	1.41E-11	8.47E-07
~.			4.005						A 475 44	4 175 00
X1	1	4.84	-1.065	2000-07-04 15:00	37.49	2000-07-11 13:00	62.13	24.64	2.45E-11	1.47E-06
Xt	2	4.84	-1.38	2000-07-04 15:00	39.72	2000-07-11 13:00	63.15	23.43	2.25E-11	1.35E-06
Xt	3	4.84	-1.695	2000-07-04 15:00	38.63	2000-07-11 13:00	58.67	20.04	1.68E-11	1.01E-06
X1	4	4.84	-2.01	2000-07-04 15:00	41.82	2000-07-11 13:00	63.44	21.62	1.94E-11	1.17E-06
X1	5	4 84	-2 325	2000-07-04 15:00	39.72	2000-07-11 13:00	61.10	21 38	1 90E-11	1 14E-06
¥4		4.84	2.020	2000 07 04 15:00	20.12	2000 07 41 12:00	67.10	18.0	1.00C 11	B 22E 07
<u>.</u>	-	4.04	-2.04	2000-07-04 15:00	39.12	2000-07-11 13:00	51.52	10.2	1.3/2-11	0.23E-07
X1	1	4.84	-2.955	2000-07-04 15:00	39.81	2000-07-11 13:00	60.20	20.39	1.74E-11	1.04E-06
X1	8	4.84	-3.27	2000-07-04 15:00	39.45	2000-07-11 13:00	70.52	31.07	3.53E-11	2.12E-06
X1	9	4.84	-3.585	2000-07-04 15:00	39.87	2000-07-11 13:00	79.93	40.06	5.03E-11	3.02E-06
¥1	1	5.06	.1 065	2000-07-04 15-00	40.97	2000-07.11 13:00	74 96	34 60	4 135-11	2485.06
		5.00	-1.005	2000-07-04 15.00	40.27	2000-07-11 13.00	74.50	34.03	4.13E-11	2.402-00
**	2	5.06	-1.38	2000-07-04 15:00	40.01	2000-07-11 13:00	1/0.61	130.6	2.02E-10	1.21E-05
Y I	3	5.06	-1.695	2000-07-04 15:00	39.32	2000-07-11 13:00	164.69	125.37	1.93E-10	1.16E-05
Yt	4	5.06	-2.01	2000-07-04 15:00	40.55	2000-07-11 13:00	189.12	148.57	2.32E-10	1.39E-05
Y1	5	5.06	-2.325	2000-07-04 15:00	38.96	2000-07-11 13:00	180.27	141.31	2.20E-10	1.32E-05
YI	6	5.06	-2.64	2000-07-04 15:00	36 64	2000-07-11 13:00	263 93	227 29	3.64E-10	2 18E-05
VI	7	5.06	2 055	2000 07 04 15:00	40.84	2000 07 11 12:00	222 74	202.0	4 735 10	2 845 05
	,	5.00	-2.333	2000-07-04 15:00	40.04	2000-07-11 13.00	000.05	232.3	4.732-10	2.042-03
Y1	8 9	5.06	-3.27 -3.585	2000-07-04 15:00	41.62	2000-07-11 13:00	332.05	290.43	4.69E-10 4.48E-10	2.82E-05 2.69E-05
	-			2000 07 07 10:00		2000 07 11 10.00	070.20	2		2.002.00
Z1	1	5.28	-1.065	2000-07-04 15:00	38.89	2000-07-11 13:00	122.99	84.1	1.24E-10	7.44E-06
Z1	2	5 28	-1 38	2000-07-04 15:00	37 48	2000-07-11 13:00	191 58	154.1	2.41F.10	1 455-05
71	-	5.25	1.00	2000 07 04 45:00	26.05	2000 07 11 13:00	222.00	107.1	2.412-10	1 005 05
<u>_</u> ,		J.26	-1.090	2000-07-04 15:00	30.95	2000-07-11 13:00	232.36	195.43	3.10E-10	CU-300.1
<b>Z</b> 1	4	5.28	-2.01	2000-07-04 15:00	37.16	2000-07-11 13:00	198.31	161.15	Z.53E-10	1.52E-05
Z1	5	5.28	-2.325	2000-07-04 15:00	42.83	2000-07-11 13:00	290.11	247.28	3.97E-10	2.38E-05
Z1	6	5.28	-2.64	2000-07-04 15:00	40.09	2000-07-11 13:00	286.61	246.52	3.96E-10	2.37E-05
Z1	7	5.28	-2.955	2000-07-04 15:00	38.81	2000-07-11 13:00	272.90	234.09	3.75E-10	2.25E-05
<b>Z</b> 1	R	5 28	.1 77	2000-07-04 15:00	28 53	2000.07 11 13:00	190.04	150 64	7 765 10	1 415 05
Z1	9	5.28	-3.585	2000-07-04 15:00	38.34	2000-07-11 13:00	107.84	69.5	9.96E-11	5.97E-06
A2	1	0	-4,565	2000-07-03 12:00	41.17	2000-07-11 14:00	67.67	26.5	2.36E-11	1.42E-06
AZ	2	0	-4.88	2000-07-03 12:00	41.98	2000-07-11 14:00	53.45	11.47	2.10E-12	1.26E-07
A2	3	0	-5.195	2000-07-03 12:00	43.08	2000-07-11 14:00	56.24	13,16	4.52E-12	2.71E-07
A2	4	0	-5.51	2000-07-03 12:00	42 34	2000-07-11 14-00	55 79	13.45	4 945.17	2 96F-07
	-	~	5.01	2000 07-00 (4.00	76.07	2000 07 11 11.00	55.15	10.40		2.002-07
~	5	U	-3.025	2000-07-03 12:00	41.33	2000-07-11 14:00	04.69	13.50	5.10E-12	3.002-07
AZ	6	0	-6.14	2000-07-03 12:00	43.25	2000-07-11 14:00	57.42	14.17	5.97E-12	3.58E-07
A2	7	0	-6.455	2000-07-03 12:00	42.03	2000-07-11 14:00	55.03	13	4.30E-12	2.58E-07
A2	8	0	-6.77	2000-07-03 12:00	42.31	2000-07-11 14:00	55.09	12.78	3.98E-12	2.39E-07
A2	9	n	-7 085	2000-07-03 12:00	44 43	2000-07-11 14:00	62 17	17 74	1 11E-11	6 65E-07
-	•	·		2000 01-00 12.00	TT.TV	2000 0/-15 14.00	<b>34.11</b>	11.14	0.00-00	0.002-01

Plank	Diaper	O_length	Depth	Date start	Weight start	Date end	Weight end	Weight diff	O corrected	O corrected
		(m)	(m)		(0)		(n)	(n)	(m ³ /s)	(l/min)
B2	1	0.22	-4.565	2000-07-03 12:00	45.67	2000-07-11 14:00	63.05	17.38	1.06E-11	6 34 5.07
B2	2	0.22	-4.88	2000-07-03 12:00	48.77	2000-07-11 14:00	62.08	13 31	4 74E-17	0.34E-07
82	3	0.22	-5.195	2000-07-03 12:00	46.01	2000-07-11 14:00	60.17	14.11	5.88E.12	2.04E-07
B2	4	0.22	-5.51	2000-07-03 12:00	40.07	2000-07-11 14:00	59.21	19.11	5.002-12	3.53E-07
B2	5	0.22	-5 825	2000-07-03 12:00	44.10	2000-07 11 14:00	57.25	13.04	5.212-12	3.13E-07
B2	6	0.22	-6 14	2000-07-03 12:00	43.17	2000-07-11 14:00	57.25	13.15	4.57E-12	2./1E-07
B2	7	0.22	-6.455	2000-07-03 12:00	45.17	2000-07-11 14:00	50.20	13.09	4.42E-12	2.65E-07
82		0.22	-0.433 £ 77	2000-07-03 12:00	41.41	2000-07-11 14:00	53.25	11.84	2.63E-12	1.58E-07
82	å	0.22	7.085	2000-07-03 12:00	43.50	2000-07-11 14:00	56.19	12.69	3.85E-12	2.31E-07
02	3	0.22	-7.065	2000-07-03 12:00	40.84	2000-07-11 14:00	53.97	13.13	4.48E-12	2.69E-07
CZ	1	0.44	-4.565	2000-07-03 12:00	41.42	2000-07-11 14:00	54.41	12.99	4.28E-12	2.57E-07
C2	2	0.44	-4.00	2000-07-03 12:00	42.50	2000-07-11 14:00	52.61	10.11	1.58E-13	9.45E-09
C2	3	0.44	-5.195	2000-07-03 12:00	41.02	2000-07-11 14:00	52.04	11.02	1.46E-12	8.76E-08
02	•	0.44	-5.51	2000-07-03 12:00	42.62	2000-07-11 14:00	54.64	12.02	2.89E-12	1.74E-07
C2	3	0.44	-5.825	2000-07-03 12:00	43.00	2000-07-11 14:00	55.35	12.35	3.36E-12	2.02E-07
C2		0.44	-6.14	2000-07-03 12:00	41.85	2000-07-11 14:00	53.93	12.08	2.98E-12	1.79E-07
62		0.44	-6.455	2000-07-03 12:00	40.09	2000-07-11 14:00	51.74	11.65	2.36E-12	1.42E-07
02	8	0.44	-6.77	2000-07-03 12:00	40.30	2000-07-11 14:00	52.62	12.32	3.32E-12	1.99E-07
62	9	0.44	-7.085	2000-07-03 12:00	41.31	2000-07-11 14:00	54.76	13.45	4.94E-12	2.96E-07
D2	1	0.66	-4.565	2000-07-03 13:00	40.60	2000-07-11 14:00	53.46	12.86	4.12E-12	2.47E-07
D2	2	0.66	-4.88	2000-07-03 13:00	41.99	2000-07-11 14:00	52.53	10.54	7.77E-13	4.66E-08
D2	3	0.66	-5.195	2000-07-03 13:00	40.44	2000-07-11 14:00	50,78	10.34	4.89E-13	2.94E-08
D2	4	0.66	-5.51	2000-07-03 13:00	45,70	2000-07-11 14:00	57.08	11.38	1.99E-12	1,19E-07
D2	5	0.66	-5.825	2000-07-03 13:00	39.05	2000-07-11 14:00	49.04	9.99	-1.44E-14	-8.64E-10
D2	6	0.66	-6,14	2000-07-03 13:00	46.83	2000-07-11 14:00	59.05	12.22	3.20E-12	1 92E-07
D2	7	0.66	-6.455	2000-07-03 13:00	43.24	2000-07-11 14:00	53.91	10.67	9.64E-13	5 79E-08
D2	8	0.66	-6.77	2000-07-03 13:00	40.23	2000-07-11 14:00	50 17	9.94	-R 64E-14	5 185 00
D2	9	0.66	-7.085	2000-07-03 13:00	42.25	2000-07-11 14:00	54.44	12.19	3.15E-12	1.89E-07
F7	,	0.89	4 565	2000 07 02 14:00	10.75					
F2	,	0.00	-4.303	2000-07-03 14:00	42.75	2000-07-11 14:00	53.71	10.96	1.39E-12	8.33E-08
E2	2	0.00	-4.00	2000-07-03 14:00	41.58	2000-07-11 14:00	51.40	9.82	-2.60E-13	-1.56E-08
E2 E2	3	0.86	-5.195	2000-07-03 14:00	42.81	2000-07-11 14:00	52.91	10.1	1.45E-13	8.68E-09
E2 E2	:	88.0	-5.51	2000-07-03 14:00	41.88	2000-07-11 14:00	51.29	9.41	-8.54E-13	-5.12E-08
E2 E2	5	88.0	-5.825	2000-07-03 14:00	41.15	2000-07-11 14:00	50.70	9.55	-6.51E-13	-3.91E-08
E2		0.88	-6.14	2000-07-03 14:00	44.78	2000-07-11 14:00	55.74	10.96	1.39E-12	8.33E-08
E2		0.88	-6.455	2000-07-03 14:00	48.16	2000-07-11 14:00	59.84	11.68	2.43E-12	1.46E-07
E2	8	0.88	-6.77	2000-07-03 14:00	46.97	2000-07-11 14:00	57.74	10.77	1.11E-12	6.68E-08
EZ	9	88.0	-7.085	2000-07-03 14:00	47.23	2000-07-11 14:00	62.08	14.85	7.02E-12	4.21E-07
F2	1	1.1	-4.565	2000-07-03 14:00	45.36	2000-07-11 14:00	56.39	11.03	1 49E-12	8 94E-08
F2	2	1.1	-4.88	2000-07-03 14:00	47.28	2000-07-11 14:00	58 52	11.24	1 795-12	1.08E-07
F2	3	1.1	-5.195	2000-07-03 14:00	46.17	2000-07-11 14:00	56.81	10.64	9 265-13	5 565 08
F2	4	1.1	-5.51	2000-07-03 14:00	39.25	2000-07-11 14:00	49.47	10.04	3.200-13	5.50E-06
F2	5	1.1	-5.825	2000-07-03 14:00	44 87	2000-07-11 14:00	55 38	10.51	7 285 12	1.372-08
F2	6	1.1	-6.14	2000-07-03 14:00	45.08	2000-07-11 14:00	55.50	11.1	1.302-13	4.43E-08
F2	7	1.1	-6.455	2000-07-03 14:00	48.00	2000-07-11 14:00	50.10	10.00	1.596-12	9.55E-08
F2	8	1.1	-6.77	2000-07-03 14:00	45.00	2000-07-11 14:00	30.00	10.00	1.2/E-12	7.64E-08
F2	9	1.1	-7.085	2000-07-03 14:00	42.70	2000-07-11 14:00	71.1 <del>4</del> 55.04	20.24	2.20E-11	1,32E-06
							00.04	12.54	5.552412	2.032-07
G2	1	1.32	-4.565	2000-07-03 14:00	41.72	2000-07-11 14:00	53.80	12.08	3.01E-12	1.81E-07
G2	2	1.32	-4.88	2000-07-03 14:00	42.69	2000-07-11 14:00	53.72	11.03	1.49E-12	8.94E-08
G2	3	1.32	-5.195	2000-07-03 14:00	41.07	2000-07-11 14:00	50.19	9.12	-1.27E-12	-7.64E-08
G2	4	1.32	-5.51	2000-07-03 14:00	41.66	2000-07-11 14:00	50.99	9.33	-9.69E-13	-5.82E-08
GZ	5	1.32	-5.825	2000-07-03 14:00	41.09	2000-07-11 14:00	49.95	8.86	-1.65E-12	-9.90E-08
G2	6	1.32	-6.14	2000-07-03 14:00	42.77	2000-07-11 14:00	57.46	14.69	6.79E-12	4.07E-07
G2	7	1.32	-6.455	2000-07-03 14:00	43.33	2000-07-11 14:00	70.08	26.75	2.42E-11	1.45E-06
G2	8	1.32	-6.77	2000-07-03 14:00	41.74	2000-07-11 14:00	64.84	23.1	1.90E-11	1.14E-06
G2	9	1.32	-7.085	2000-07-03 14:00	41.00	2000-07-11 14:00	55.90	14.9	7.09E-12	4.25E-07
H2	1	1.54	-4.565	2000-07-03 14:00	43 39	2000-07-11 14:00	55 47	10.09	2015 10	
H2	2	1.54	-4.88	2000-07-03 14:00	40.76	2000-07-11 14:00	10.04	12.00	3.01E-12	1.81E-07
H2	3	1.54	-5 195	2000-07-03 14:00	40.70	2000-07-11 14:00	43.21 40.55	8.45	-2.24E-12	-1.35E-07
H2	4	1.54	.5 51	2000_07_03_14:00	40.32	2000-07-11 14:00	49.66	8.74	-1.82E-12	-1.09E-07
H2	5	1.54	5.01 6.876	2000-07-03 14:00	40.00	2000-07-11 14:00	49.80	8.94	-1.53E-12	-9.20E-08
H2	6	1.54	-J.02J	2000-07-03 14.00	40.02	2000-07-11 14:00	48.57	8.55	-2.10E-12	-1.26E-07
H2	7	1.54	-0.14 C 455	2000-07-03 14.00	40.00	2000-07-11 14:00	50.05	9.19	-1.17E-12	-7.03E-08
H2		1.54	-0.433	2000-07-03 14:00	43.01	2000-07-11 14:00	52.29	9.28	-1.04E-12	-6.25E-08
H2	9	1.54	-7.085	2000-07-03 14:00	43.10	2000-07-11 14:00	53.13 52.31	10.03	4.34E-14	2.60E-09
						2000 01 17 19.00	54.51	3.5	-7.23E-13	-4.34E-VO
12	1	1.76	-4.565	2000-07-03 14:00	39.87	2000-07-11 14:00	53.35	13.48	5.03E-12	3.02E-07
12	2	1./10	-4.88	2000-07-03 14:00	46.86	2000-07-11 14:00	56.59	9.73	-3.91E-13	-2.34E-08
12	3	1.76	-5.195	2000-07-03 14:00	48.35	2000-07-11 14:00	58.40	10.05	7.23E-14	4.34E-09
12	4	1.76	-5.51	2000-07-03 14:00	42.31	2000-07-11 14:00	51.26	8.95	-1.52E-12	-9.11E-08
12	5	1.76	-5.825	2000-07-03 14:00	43.73	2000-07-11 14:00	53.32	9.59	-5.93E-13	-3.56E-08
12	6	1.76	-6.14	2000-07-03 14:00	44.89	2000-07-11 14:00	54.63	9.74	-3.76E-13	-2.26E-08
12	7	1.76	-6.455	2000-07-03 14:00	41.76	2000-07-11 14:00	50.71	8.95	-1.52E-12	-9.11E-08
12	8	1.76	-6.77	2000-07-03 14:00	41.61	2000-07-11 14:00	51.22	9.61	-5.64E-13	-3.39E-08
12	9	1.76	-7.085	2000-07-03 14:00	41.38	2000-07-11 14:00	51.91	10.53	7.67E-13	4.60E-08
J2	1	1.98	-4.565	2000-07-03 15:00	42 3e	2000 07 11 14:00	£7.00			
J2	2	1,98	_4 RR	2000-07-03 13:00	12.30	2000-07-11 14:00	57.20	14.84	7.04E-12	4.22E-07
J2	3	1.98	-5 105	2000-07-03 10.00	40.50	2000-07-11 14:00	53.03	10.53	7.71E-13	4.62E-08
	Ă	1.00	5.64	2000-07-03 15:00	40.59	2000-07-11 14:00	52.73	12.14	3.11E-12	1.87E-07
.12		1.00	-0.01	2000-07-03 15:00	39.42	2000-07-11 14:00	52.71	13.29	4.78E-12	2.87E-07
12	5	1.30	-3.625	2000-07-03 15:00	41.73	2000-07-11 14:00	52.12	10.39	5.67E-13	3.40E-08
10	7	1.98	-0.14	2000-07-03 15:00	41.58	2000-07-11 14:00	51.76	10.18	2.62E-13	1.57E-08
ve	,	1.98	-0.455	2000-07-03 15:00	41.99	2000-07-11 14:00	51.45	9.46	-7.85E-13	-4.71E-08

Plank	Diaper	O length	Depth	Date start	Weight start	Date end	Weight end	Weight diff	Q corrected	Q corrected
	Diapor	(m)	(m)	Dutt_Dutt	(a)	Duct	(a)	(a)	(m ³ /s)	(l/min)
J2	8	1.98	-6.77	2000-07-03 15:00	43.12	2000-07-11 14:00	53.46	10.34	4.94E-13	2.97E-08
J2	9	1.98	-7.085	2000-07-03 15:00	46.10	2000-07-11 14:00	59.26	13.16	4.60E-12	2.76E-07
K2	1	2.2	-4.565	2000-07-03 15:00	42.38	2000-07-11 14:00	56.71	14.33	6.30E-12	3.78E-07
K2	2	2.2	-4.88	2000-07-03 15:00	43.19	2000-07-11 14:00	56.56	13.37	4.90E-12	2.94E-07
K2	3	2.2	-5.195	2000-07-03 15:00	39.95	2000-07-11 14:00	50.14	10.19	2.76E-13	1.66E-08
К2	4	2.2	-5.51	2000-07-03 15:00	41.56	2000-07-11 14:00	52.53	10.97	1.41E-12	8.46E-08
K2	5	2.2	-5.825	2000-07-03 15:00	42.40	2000-07-11 14:00	53.15	10.75	1.09E-12	6.54E-08
К2	6	2.2	-6.14	2000-07-03 15:00	43.80	2000-07-11 14:00	55.29	11.49	2.17E-12	1.30E-07
К2	7	2.2	-6.455	2000-07-03 15:00	42.99	2000-07-11 14:00	53.62	10.63	9.16E-13	5.50E-08
К2	8	2.2	-6.77	2000-07-03 15:00	42.02	2000-07-11 14:00	52.51	10.49	7.13E-13	4.28E-08
К2	9	2.2	-7.085	2000-07-03 15:00	40.36	2000-07-11 14:00	51.16	10.8	1.16E-12	6.98E-08
12	1	2.42	-4.565	2000-07-03 15:00	41.93	2000-07-11 14:00	55.79	13.86	5.61E-12	3.37E-07
1.2	2	2.42	-4.88	2000-07-03 15:00	42.22	2000-07-11 14:00	52.85	10.63	9.16E-13	5.50E-08
L2	3	2.42	-5.195	2000-07-03 15:00	42.41	2000-07-11 14:00	53.11	10.7	1.02E-12	6.11E-08
12	4	2.42	-5.51	2000-07-03 15:00	42.18	2000-07-11 14:00	52.90	10.72	1.05E-12	6.28E-08
12	5	2.42	-5.825	2000-07-03 15:00	44.50	2000-07-11 14:00	55.77	11.27	1.85E-12	1.11E-07
12	6	2.42	-6.14	2000-07-03 15:00	42.44	2000-07-11 14:00	53.45	11.01	1.47E-12	8.81E-08
12	7	2.42	-6.455	2000-07-03 15:00	41.45	2000-07-11 14:00	51.85	10.4	5.82E-13	3 49E-08
12		242	-6.77	2000-07-03 15:00	41 19	2000-07-11 14:00	51.83	10.64	9 31E-13	5 58E-08
12		2.42	-7 085	2000-07-03 15:00	47.78	2000-07-11 14:00	54 31	11.53	2 235-12	1 345 07
	•	2.72	-7.005	2000-01-03 13,00	42.70	2000-07-11 14:00	54.51	11.55	2.232412	1.346-07
M2	1	264	4 565	2000-07-03 15:00	43.08	2000-07-11 15:00	57 15	14.07	5 80E.12	3 535-07
M2	2	2.64	-4.88	2000-07-03 15:00	43.86	2000-07-11 15:00	54 50	10.73	1.055 12	6 34E 08
M2	-	2.04	-4.00 E 105	2000-07-03 15:00	43.60	2000-07-11 15:00	53.06	10.75	7.065-12	4.775.08
M2	3	2.04	-3.195	2000-07-03 15:00	42.51	2000-07-11 15:00	53.00	10.55	7.90E-13	4.77E-08
M2	•	2.64	-5.51	2000-07-03 15:00	41.8/	2000-07-11 15:00	52.26	10.39	5.64E-13	3.39E-08
M2	5	2.64	-5.825	2000-07-03 15:00	41.72	2000-07-11 15:00	52.06	10.34	4.92E-13	2.95E-08
M2	6	2.64	-6.14	2000-07-03 15:00	41.95	2000-07-11 15:00	53.05	11.1	1.59E-12	9.55E-08
M2	7	2.64	-6.455	2000-07-03 15:00	39.99	2000-07-11 15:00	50.11	10.12	1.74E-13	1.04E-08
M2	8	2.64	-6.77	2000-07-03 15:00	39.33	2000-07-11 15:00	49.54	10.21	3.04E-13	1.82E-08
M2	9	2.64	-7.085	2000-07-03 15:00	43.27	2000-07-11 15:00	54.66	11.39	2.01E-12	1.21E-07
N2	1	2.86	-4.565	2000-07-03 15:00	44.26	2000-07-11 15:00	56.32	12.06	2.98E-12	1.79E-07
N2	2	2.86	-4.88	2000-07-03 15:00	42.52	2000-07-11 15:00	53,25	10.73	1.06E-12	6.34E-08
N2	3	2.86	-5.195	2000-07-03 15:00	42 55	2000-07-11 15:00	52.86	10.31	4 48E-13	2.69E-08
N2		2.86	-5.51	2000-07-03 15:00	44.85	2000-07-11 15:00	56 78	11 93	2 79E-12	1.685-07
N2	5	2,00	5 825	2000-07-03 15:00	44.03	2000-07-11 15:00	50.76	11.55	2.750-12	1.415.07
192	5	2.00	-5.625	2000-07-03 15:00	44.3/	2000-07-11 15:00	56.00	11.03	2.302-12	1.412-07
NZ		2.00	-0.14	2000-07-03 15:00	44.18	2000-07-11 15:00	56./1	12.53	3.66E-12	2.20E-07
NZ	/	2.86	-5.455	2000-07-03 15:00	42.17	2000-07-11 15:00	53.92	11.75	2.53E-12	1.52E-07
NZ	8	2.86	-6.77	2000-07-03 15:00	43.37	2000-07-11 15:00	55.38	12.01	2.91E-12	1.74E-07
N2	9	2.86	-7.085	2000-07-03 15:00	41.39	2000-07-11 15:00	53.38	11.99	2.88E-12	1.73E-07
02	1	3.08	-4.565	2000-07-03 15:00	43.50	2000-07-11 15:00	58.81	15.31	7.68E-12	4.61E-07
02	2	3.08	-4.88	2000-07-03 15:00	41.77	2000-07-11 15:00	54.70	12.93	4.24E-12	2.54E-07
02	3	3.08	-5.195	2000-07-03 15:00	39.56	2000-07-11 15:00	51.37	11.81	2.62E-12	1.57E-07
02	4	3.08	-5.51	2000-07-03 15:00	42.46	2000-07-11 15:00	56.25	13.79	5.48E-12	3.29E-07
02	5	3.08	-5.825	2000-07-03 15:00	41.29	2000-07-11 15:00	56.12	14.83	6.99E-12	4.19E-07
02	6	3.08	-6.14	2000-07-03 15:00	40.16	2000-07-11 15:00	53.80	13.64	5.27E-12	3.16E-07
02	7	3.08	-6.455	2000-07-03 15:00	38.32	2000-07-11 15:00	53.63	15.31	7.68E-12	4.61E-07
02	8	3.08	-6.77	2000-07-03 15:00	40.53	2000-07-11 15:00	54.41	13.88	5.61E-12	3.37E-07
02	9	3.08	-7.085	2000-07-03 15:00	36.74	2000-07-11 15:00	57.18	20.44	1.51E-11	9.06E-07
P2	1	3.3	-4.565	2000-07-03 16:00	43.17	2000-07-11 15:00	64.50	21.33	1.65E-11	9.89E-07
P2	2	3.3	-4 88	2000-07-03 16:00	40.54	2000-07-11 15:00	57 10	16.56	9 54E-12	5.72E-07
P2	3	33	-5 195	2000-07-03 16:00	18.28	2000-07-11 15:00	52 22	13.94	5 73E-12	3 44E-07
P2		1 1	.5.51	2000 07 03 16:00	37.40	2000 07 11 15:00	54.25	16.95	0.06E 12	5 98E-07
D2	2	3.3	5.01	2000-07-03 10:00	37.40	2000-07-11 15:00	54.25	10.00	5.500-12	3.302-07
F2	5	3.3	-5.625	2000-07-03 16:00	30.91	2000-07-11 15:00	51.16	14.20	0.10E-12	3.71E-07
P2	0	3.3	-0.14	2000-07-03 16:00	38.80	2000-07-11 15:00	54.25	15.45	7.93E-1Z	4./6E-0/
P2	1	3,3	-6.455	2000-07-03 16:00	35.70	2000-07-11 15:00	51.12	15.42	7.88E-12	4./3E-07
PZ Dr	8	3.3	-6.77	2000-07-03 16:00	39.25	2000-07-11 15:00	53.74	14.49	6.53E-12	3.92E-07
PZ	9	3.3	-7.085	2000-07-03 16:00	38.63	2000-07-11 15:00	55.70	17.07	1.03E-11	6.17E-07
QZ	1	3.52	-4.565	2000-07-03 16:00	40.25	2000-07-11 15:00	107.00	66.75	8.25E-11	
Q2	2	3.52	-4.88	2000-07-03 16:00	40.02	2000-07-11 15:00	72.26	32.24	3.23E-11	
Q2	3	3.52	-5.195	2000-07-03 16:00	37.13	2000-07-11 15:00	64.49	27,36	2.52E-11	
Q2	4	3.52	-5.51	2000-07-03 16:00	36.41	2000-07-11 15:00	64.05	27.64	2.57E-11	
Q2	5	3.52	-5.825	2000-07-03 16:00	37.95	2000-07-11 15:00	59.18	21.23	1.63E-11	
Q2	6	3.52	-6.14	2000-07-03 16:00	37.27	2000-07-11 15:00	60.37	23.1	1.91E-11	
Q2	7	3.52	-6.455	2000-07-03 16:00	40.96	2000-07-11 15:00	59.13	18,17	1.19E-11	
Q2	8	3.52	-6.77	2000-07-03 16:00	39.51	2000-07-11 15:00	54.81	15.3	7 71E-12	
Q2	9	3.52	-7.085	2000-07-03 16:00	40 47	2000-07-11 15:00	61.31	20 B4	1.58E-11	
	•			2000 0, 00 10.00		2000-01-11-10.00	91.91	20.04	1.006-11	
R2	1	3.74	-4 565	2000-07-03 16:00	39.96	2000-07-11 15:00	255 96	216	3 00E-10	
82	,	3.74	.4 99	2000 07-03 10.00	40.90	2000-07-11 10.00	200.00	210	3.002-10	
	4	3.74		2000-07-03 10:00	40.69	2000-07-11 15:00	209.69	109	2.312-10	
rt.2	3	3,/4	-5.195	2000-07-03 16:00	38.37	2000-07-11 15:00	202.14	163.77	2.24E-10	
R2	4	3.74	-5.51	2000-07-03 16:00	40.92	2000-07-11 15:00	213.61	172.69	2.37E-10	
R2	5	3.74	-5.825	2000-07-03 16:00	41.37	2000-07-11 15:00	290.15	248.78	3.47E-10	
R2	6	3.74	-6.14	2000-07-03 16:00	39.70	2000-07-11 15:00	294.58	254.88	3.56E-10	
R2	7	3,74	-6.455	2000-07-03 16:00	40.72	2000-07-11 15:00	330.21	289.49	4.06E-10	
R2	8	3.74	-6.77	2000-07-03 16:00	39.02	2000-07-11 15:00	308.59	269.57	3.78E-10	
RZ	9	3.74	-7.085	2000-07-03 16:00	38.97	2000-07-11 15:00	276.33	237.36	3.31E-10	
S2	1	3.96	-4.565	2000-07-03 16:00	37.22	2000-07-11 15:00	200.47	163.25	2.23E-10	
S2	2	3,96	-4 88	2000-07-03 16:00	41.05	2000-07-11 15:00	194 64	153 50	2 095-10	
S2	-	3.96	-5 105	2000.07.03 16:00	17 08	2000.07.11 15:00	194 76	147 69	2005-10	
52	4	3.50	-J.150 E E4	2000-07-03 10:00	31.00	2000-07-11 13:00	104./0	147.00	2.000-10	
~~	-	3.50	-3,31	2000-07-03 10:00	41.30	2000-07-13 15:00	200.34	136.96	2.1/E-10	

Plank	Diaper	O length	Depth	Date start	Weight start	Date end	Weight end	Weight diff	Q corrected	Q corrected
	•	(m)	(m)		(9)		(0)	(a)	(m ³ /s)	(I/min)
\$2	5	196	5 825	2000 07 02 16:00	19/	2000 07 14 15:00	(9)	144 76	1 025 40	(011011)
62		3.90	-5.625	2000-07-03 18.00	37.90	2000-07-11 15:00	1/5./4	141.70	1.922-10	
32	•	3,90	-0.14	2000-07-03 16:00	40.19	2000-07-11 15:00	215.86	1/5.6/	2.41E-10	
S2	7	3.96	-6.455	2000-07-03 16:00	40.87	2000-07-11 15:00	196.72	155.85	2.12E-10	
S2	8	3.96	-6.77	2000-07-03 16:00	38.01	2000-07-11 15:00	170.82	132.81	1.79E-10	
S2	9	3.96	-7.085	2000-07-03 16:00	38.13	2000-07-11 15:00	196.88	158.75	2.16E-10	
72	+	A 18	4 565	2000.07.03 16:00	40.99	2000 07 11 15:00	227.19	196 3	2 FEE 10	
-		4.10	-4.505	2000-07-03 10.00	40.00	2000-07-11 15.00	227.18	100.3	2.502-10	
72	2	4.10	-4.00	2000-07-03 16:00	41.21	2000-07-11 15:00	2/0.00	235.44	3.26E-10	
12	3	4.18	-5,195	2000-07-03 16:00	36.39	2000-07-11 15:00	261.82	225.43	3.13E-10	
12	4	4.18	-5.51	2000-07-03 16:00	40.43	2000-07-11 15:00	289.45	249.02	3.48E-10	
T2	5	4.18	-5.825	2000-07-03 16:00	39.44	2000-07-11 15:00	285.53	246.09	3.43E-10	
T2	6	4.18	-6.14	2000-07-03 16:00	38.00	2000-07-11 15:00	300.54	262.54	3.67E-10	
T2	7	4.18	-6.455	2000-07-03 16:00	38.64	2000-07-11 15:00	282.32	243.68	3.40E-10	
T2	8	4.18	-6.77	2000-07-03 16:00	38.75	2000-07-11 15:00	246.76	208.01	2.88E-10	
T2	9	4.18	-7.085	2000-07-03 16:00	40.66	2000-07-11 15:00	254.69	214.03	2.97E-10	
02	1	4.4	-4.565	2000-07-03 16:00	42.77	2000-07-11 15:00	215.44	172.67	2.37E-10	1.42E-05
02	2	4.4	-4.88	2000-07-03 16:00	42.46	2000-07-11 15:00	73.20	30.74	3.02E-11	1.81E-06
02	3	4.4	-5.195	2000-07-03 16:00	43.21	2000-07-11 15:00	88.87	45.66	5.19E-11	3.11E-06
U2	4	4.4	-5.51	2000-07-03 16:00	45.25	2000-07-11 15:00	73.86	28.61	2.71E-11	1.62E-06
U2	5	4.4	-5.825	2000-07-03 16:00	47.61	2000-07-11 15:00	74.42	26.81	2.44E-11	1.47E-06
U2	6	4.4	-6.14	2000-07-03 16:00	48.82	2000-07-11 15:00	75.92	27.1	2.49E-11	1.49E-06
U2	7	4.4	-6.455	2000-07-03 16:00	40.49	2000-07-11 15:00	59.04	18.55	1 24E-11	7 465-07
U2	8	4.4	-6 77	2000-07-03 16:00	41 98	2000-07-11 15:00	71 93	29.95	2 005 11	1 745 06
112	9	4.4	-7 085	2000-07-03 16:00	41.87	2000 07 11 15:00	60.30	23.35	2.502-11	1.74E-00
•-	•	1.1	-7.000	2000-07-03 10:00	41.02	2000-07-11 15:00	09.20	27.38	2.535-11	1.52E-06
V2	1	4.62	-4.565	2000-07-03 16:00	41.27	2000-07-11 15:00	250.51	209.24	2.90E-10	1.74E-05
V2	2	4.62	-4.88	2000-07-03 16:00	42.02	2000-07-11 15:00	152.02	110	1.45E-10	8.73E-06
V2	3	4.62	-5.195	2000-07-03 16:00	44 40	2000-07-11 15:00	69 98	25.58	2 27E-11	1 365-06
V2	4	4 62	-5.51	2000-07-03 16:00	43 1R	2000-07-11 15:00	64.48	21.3	1.645.11	0.955.07
V2	6	4.67	-5 825	2000-07-02 16:00	44.75	2000-07-11 15:00	62.94	21.5	1.040-11	9.002-07
100	-	4.62	E 14	2000-07-03 10:00	44.15	2000-07-11 15.00	03.01	19.00	1.32E-11	7.91E-07
	•	4.02	-0.14	2000-07-03 10.00	43.90	2000-07-11 15:00	60.21	10.20	9.10E-12	5.46E-07
V2	,	4.02	-0.400	2000-07-03 16:00	44.09	2000-07-11 15:00	62.22	18.13	1.18E-11	7.09E-07
V2	8	4.62	-6.77	2000-07-03 16:00	43.87	2000-07-11 15:00	66.86	22.99	1.89E-11	1.13E-06
VZ	9	4.62	-7.085	2000-07-03 16:00	43.75	2000-07-11 15:00	69.32	25.57	2.26E-11	1.36E-06
X2	1	4.84	-4.565	2000-07-03 16:00	42.75	2000-07-11 15:00	267.99	225.24	3 13F-10	1 88F-05
X2	2	4.84	-4.88	2000-07-03 16:00	41.43	2000-07-11 15:00	290 14	248 71	3 47E-10	2.085-05
X2	3	4 84	-5 195	2000-07-03 16:00	44 12	2000-07-11 15:00	178 63	84.51	1 085 10	£ 505 06
X2	4	4 84	.5.51	2000 07 03 16:00	47.12	2000-07-11 15:00	520.00	44.05	1.002-10	6.00E-00
X7	5	4.84	5 925	2000-07-00 16:00	43.50	2000-07-11 15:00	57.61	14.00	0.702-12	4.062-07
¥2	6	4.04	-3.623	2000-07-03 16.00	44.05	2000-07-11 15:00	29.44	14.79	6.97E-12	4.18E-07
~2	-	4.04	-0,14	2000-07-03 16:00	43,16	2000-07-11 15:00	56.89	13.73	5.42E-12	3.25E-07
X2		4.84	~6.455	2000-07-03 16:00	43.47	2000-07-11 15:00	56.69	13.22	4.68E-12	2.81E-07
X2	8	4.84	-6.77	2000-07-03 16:00	42.26	2000-07-11 15:00	58.93	16.67	9.70E-12	5.82E-07
X2	9	4.84	-7.085	2000-07-03 16:00	46.08	2000-07-11 15:00	68.91	22.83	1.87E-11	1.12E-06
Y2	1	5.06	-4.565	2000-07-03 16:00	44.54	2000-07-11 15:00	323.11	278.57	3.91F-10	2.34F-05
Y2	2	5.06	-4.88	2000-07-03 16:00	43 16	2000-07-11 15:00	368 83	325.67	4 59E-10	2 755-05
Y2	3	5.06	-5 195	2000-07-03 16:00	43.68	2000 07 11 15:00	270.65	226.07	4.552-10	2.752-05
¥2		5.00	-0.133 E E4	2000-07-03 10:00	43.00	2000-07-11 15.00	370.05	526.97	4.612-10	2.77E-03
V2	2	5.00	-3.31	2000-07-03 16:00	43.99	2000-07-11 15:00	422.95	378.96	5.3/E-10	3.22E-05
12	5	5.06	-5.825	2000-07-03 16:00	46.74	2000-07-11 15:00	411.23	364.49	5.16E-10	3.09E-05
¥2	6	5.06	-6.14	2000-07-03 16:00	45.31	2000-07-11 15:00	253.17	207.86	2.88E-10	1.73E-05
Y2	7	5.06	-6.455	2000-07-03 16:00	44.00	2000-07-11 15:00	62.7 <del>9</del>	18.79	1.28E-11	7.67E-07
Y2	8	5.06	-6.77	2000-07-03 16:00	45.95	2000-07-11 15:00	61.73	15.78	8.41E-12	5.04E-07
Y2	9	5.06	-7.085	2000-07-03 16:00	42.55	2000-07-11 15:00	59.99	17.44	1.08E-11	6.49E-07
Z2	1	5 28	.4 565	2000-07-03 17:00	43.11	2000 07 11 15:00	106 70	63 60	7 925 11	4 705 00
72	2	5.28	4.505	200007-03 17.00	41.00	2000-07-11 13:00	100.70	03.39	1.03E-11	4.702-06
72	-	5.20		2000-07-03 17.00	41.00	2000-07-11 15:00	00.00	14.9/	1.2/E-12	4.36E-07
70	,	5.26	-3.195	2000-07-03 17:00	41.29	2000-07-11 15:00	53.97	12.68	3.92E-12	2.35E-07
~~	4	5.28	-5.51	2000-07-03 17:00	43.78	2000-07-11 15:00	57.42	13.64	5.32E-12	3.19E-07
12	5	5.28	-5.825	2000-07-03 17:00	41.45	2000-07-11 15:00	54.04	12.59	3.79E-12	2.27E-07
22	6	5.28	-6.14	2000-07-03 17:00	42.78	2000-07-11 15:00	55.61	12.83	4.14E-12	2.48E-07
Z2	7	5.28	-6.455	2000-07-03 17:00	42.70	2000-07-11 15:00	54.73	12.03	2.97E-12	1.78E-07
Z2	8	5.28	-6.77	2000-07-03 17:00	44.60	2000-07-11 15:00	58.02	13.42	5.00E-12	3.00E-07
Z2	9	5.28	-7.085	2000-07-03 17:00	41.29	2000-07-11 15:00	56.51	15.22	7.63E-12	4.58E-07

Plank	Diaper	O_length	Depth	Date_start	Weight_start	Date_end	Weight_end	Weight_diff	Q_corrected	Q_corrected	Meas1 - Meas 2	Meas2 / Meas 1
		(m)	(m)		(g)		(g)	(g)	(m³/s)	(l/min)	(1/min)	(+ increase;- decrease)
Measurement no	2 2000-07-12	2000-07-19	Reference diap	ber: 10 g								
81	1	0.22	-1.065	2000-07-12 09:00	42.58	2000-07-19 10:00	59.7	16.67	1 005 11	8 52E 07	1 215 07	15 500/
B1	2	0.22	-1.38	2000-07-12 09:00	40.72	2000-07-19 10:00	62 12	21.4	1.095-11	1 125 06	1.212-07	-15.59%
B1	3	0.22	-1 695	2000-07-12 09:00	41.33	2000-07-19 10:00	62.12	21.4	1.0/2-11	1.122-00	-2.04E-07	22.18%
B1	4	0.22	-2.01	2000-07-12 00:00	41.73	2000-07-19 10:00	67.09	19.76	1.60E-11	9.03E-07	-3.48E-07	56.57%
B1	5	0.22	2 3 7 5	2000-07-12 03:00	41.73	2000-07-19 10:00	57.06	15.95	9.78E-12	5.8/E-0/	-3.59E-08	6.51%
B1	5	0.22	-2.525	2000-07-12 09:00	41.19	2000-07-19 10:00	56.93	15.74	9.43E-12	5.66E-07	-7.90E-08	16.23%
81	8	0.22	-2.04	2000-07-12 09:00	43.07	2000-07-19 10:00	63.17	20.1	1.66E-11	9.96E-07	-3.60E-08	3.75%
81	,	0.22	-2.955	2000-07-12 09:00	42.39	2000-07-19 10:00	61.94	19.55	1.57E-11	9.42E-07	-7.85E-08	9.10%
61	•	0.22	-3.27	2000-07-12 09:00	40.16	2000-07-19 10:00	60.4	20.24	1.68E-11	1.01E-06	-6.22E-07	160.12%
81	9	0.22	-3.585	2000-07-12 09:00	39.79	2000-07-19 10:00	58.87	19.08	1.49E-11	8.95E-07	-3.73E-07	71.23%
C1	1	0.44	-1.065	2000-07-12 09:00	41.53	2000-07-19 10:00	52.72	11.19	1.96E-12	1.17E-07	4.53E-07	-79.43%
C1	2	0.44	-1.38	2000-07-12 09:00	41.73	2000-07-19 10:00	50.95	9.22	0	0	5.41E-07	
C1	3	0.44	-1.695	2000-07-12 09:00	42.11	2000-07-19 10:00	50.05	7.94	0	0	3 485-07	
C1	4	0.44	-2.01	2000-07-12 09:00	41.16	2000-07-19 10:00	49.02	7.86	0	0	2 28E-07	
C1	5	0.44	-2.325	2000-07-12 09:00	41.01	2000-07-19 10:00	50.96	9.95	0	0	5 46E-07	
C1	6	0.44	-2.64	2000-07-12 09:00	41.95	2000-07-19 10:00	67.05	25.1	2 485-11	1495.05	1.485.07	0.0294
C1	7	0.44	-2 955	2000-07-12 09:00	40.29	2000-07-19 10:00	54.64	14.75	2.402-11	1.492-00	1.405-07	-9.03%
Ct	8	0.44	-3.27	2000-07-12 09:00	20.40	2000-07-19 10:00	54.54	14.33	7.136-12	4.296-07	5.538-07	-56.32%
C1		0.44	-5.27	2000-07-12 03.00	39.40	2000-07-19 10:00	51.57	12,17	3.5/E-12	2.14E-07	-2.85E-08	15.36%
01	3	0.44	-3.365	2000-07-12 09:00	42.24	2000-07-19 10:00	51.03	8.79	C	0	2.62E-07	
D1	1	0.66	-1.065	2000-07-12 09:00	44.5	2000-07-19 10:00	53.47	8.97	0	0	4.73E-07	
D1	2	0.66	-1.38	2000-07-12 09:00	44.54	2000-07-19 10:00	52.31	7.77	0	0	1,19E-07	
D1	3	0.66	-1.695	2000-07-12 09:00	43,1	2000-07-19 10:00	52.03	8.93	0	0	1.72E-07	
D1	4	0.66	-2.01	2000-07-12 09:00	45.17	2000-07-19 10:00	53.23	8.06	0	0	2 57E-07	
Dt	5	0.66	-2.325	2000-07-12 09:00	43.99	2000-07-19 10:00	54.84	10.85	1 40E-12	8 38E-08	2 996-07	-78 11%
D1	6	0.66	-2.64	2000-07-12 09:00	42.82	2000-07-19 10:00	53 28	10.46	7 565-13	4 545-08	4.975-07	-91 64%
D1	7	0.66	-2.955	2000-07-12 09:00	39.82	2000-07-19 10:00	48.03	8 71	7.502-10	4.042-00	3.375.07	-31.0478
D1	8	0.66	-3.27	2000-07-12 00:00	45.52	2000-07-13 10:00	40.03	0.21	0	U	3.222-07	
D1	e	0.66	-5.27	2000-07-12 03:00	43.32	2000-07-19 10:00	49.49	3.97	U	0	1.88E-08	
	5	0.00	-5.505	2000-07-12 03.00	43.24	2000-07-19 10,00	50.66	7.40	U	0	6.35E-08	
E1	1	0.88	-1.065	2000-07-12 09:00	44.04	2000-07-19 10:00	64.24	20.2	1.68E-11	1.01E-06	-3.13E-07	45.27%
E1	2	0.88	-1.38	2000-07-12 09:00	42.74	2000-07-19 10:00	51.2	8.46	0	0	3.85E-07	
E1	3	0.88	-1.695	2000-07-12 09:00	41.68	2000-07-19 10:00	47.95	6.27	0	0	5.26E-08	
E1	4	0.88	-2.01	2000-07-12 09:00	44.32	2000-07-19 10:00	51.26	6.94	0	0	-3.57E-08	
E1	5	0.88	-2.325	2000-07-12 09:00	44.34	2000-07-19 10:00	52.74	8.4	0	0	1.80E-07	
E1	6	0.88	-2.64	2000-07-12 09:00	40.15	2000-07-19 10:00	47.47	7.32	0	0	-1 69E-08	
E1	7	0.88	-2.955	2000-07-12 09:00	43.15	2000-07-19 10:00	53 17	10.02	3 29E-14	1 975-09	-2 485-08	108 64%
E1	8	0.88	-3.27	2000-07-12 09:00	47 66	2000-07-19 10:00	49 77	7 11	0.202 14	1.072-00	2.385 08	-100.0476
E1	9	0.88	-3.585	2000-07-12 09:00	43.32	2000-07-19 10:00	49.94	6.62	o	0	1.72E-07	
F1	1	1.1	-1.065	2000-07-12 09:00	44.28	2000-07-19 10:00	111.43	67.15	9.39E-11	5.64E-06	-3.92E-06	229.15%
F1	2	1.1	-1.38	2000-07-12 09:00	43.96	2000-07-19 10:00	65.27	21.31	1.86E-11	1.12E-06	-2.51E-08	2.30%
F1	3	1.1	-1.695	2000-07-12 09:00	44.04	2000-07-19 10:00	54.6	10.56	9.20E-13	5.52E-08	2.22E-08	-28.63%
F1	. 4	1.1	-2.01	2000-07-12 09:00	43.21	2000-07-19 10:00	50.69	7.48	0	0	1.41E-07	
F1	5	1.1	-2.325	2000-07-12 09:00	44.49	2000-07-19 10:00	52.46	7.97	0	0	2.91E-07	
F1	6	1.1	-2.64	2000-07-12 09:00	47.19	2000-07-19 10:00	54.38	7.19	0	0	5.16E-08	
F1	7	1.1	-2.955	2000-07-12 09:00	42.3	2000-07-19 10:00	48.69	6.39	0	0	6.05E-08	
F1	8	1.1	-3.27	2000-07-12 09:00	43,38	2000-07-19 10:00	49.83	6.45	٥	0	1 195-07	
F1	9	1.1	-3.585	2000-07-12 09:00	42.95	2000-07-19 10:00	49.72	6.77	0	0	3.51E-07	
04												
G1	1	1.32	-1.065	2000-07-12 09:00	44.68	2000-07-19 10:00	199,95	155.27	2.39E-10	1.43E-05	-1.33E-05	1237.13%
G1	2	1.32	-1.38	2000-07-12 09:00	43.14	2000-07-19 10:00	86.40	43.26	5.47E-11	3.28E-06	-1.55E-06	89.91%
G1	3	1.32	-1.695	2000-07-12 09:00	44.41	2000-07-19 10:00	69.69	25.28	2.51E-11	1.51E-06	-1.33E-06	758.17%
G1	4	1.32	-2.01	2000-07-12 09:00	45.47	2000-07-19 10:00	62.08	16.61	1.09E-11	6.52E-07	-5.43E-07	497.35%
G1	5	1.32	-2.325	2000-07-12 09:00	43.76	2000-07-19 10:00	54.84	11.08	1.78E-12	1.07E-07	2.26E-07	-67.95%
G1	6	1.32	-2.64	2000-07-12 09:00	43.67	2000-07-19 10:00	60.35	16.68	1.10E-11	6.59E-07	-1.46E-07	28.44%
G1	7	1.32	-2.955	2000-07-12 09:00	40.79	2000-07-19 10:00	52.72	11.93	3.17E-12	1.90E-07	-9.21E-08	93.80%
G1	8	1.32	-3.27	2000-07-12 09:00	42.25	2000-07-19 10:00	53.26	11.01	1.66E-12	9.96E-08	1.80E-07	-64.40%
.G1	9	1.32	-3.585	2000-07-12 09:00	41.4	2000-07-19 10:00	49.56	8.16	0	0	1.24E-07	

Sida 1

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Part 2 Hydraulic conductivity estimations

Abbreviations in Table below

Plank	The plank number								
Diaper	The diaper number applied downwards								
O_length	The "length" following the borehole circumference starting at centreline of the tunnel facing east and running clock-wise								
Depth	Centre of each diaper at borehole depth								
Q_corrected	The calculated flowrate of each area covered by a diaper, l/min, after reducing the weight_diff with the reference value 10 grams.								
K _{max} (d=1.15)	Maximum estimated hydraulic conductivity at a distance of 1.15 meters from deposition borehole centre.								
$K_{med}$ (d=1.15)	Mean estimated hydraulic conductivity at a distance of 1.15 meters from deposition borehole centre.								
$K_{min}$ (d=1.15)	Minimum estimated hydraulic conductivity at a distance of 1.15 meters from deposition borehole centre.								
$K_{max}(d=5)$	Maximum estimated hydraulic conductivity at a distance of 5 meters from deposition borehole centre.								
K _{med} (d=5)	Mean estimated hydraulic conductivity at a distance of 5 meters from deposition borehole centre.								
$K_{min}$ (d=5)	Minimum estimated hydraulic conductivity at a distance of 5 meters from deposition borehole centre.								

Plank	Diaper	O_length	Depth	Q_corrected	K _{max} (d=1.15)	K _{med} (d=1.15)	K _{min} (d=1.15)	K _{max} (d≃5)	K _{med} (d=5)	K _{min} (d≃5)
				(I/min)	(m/s)	(m/s)	(m/s)	(m/s)	(m/s)	(m/s)
	Distanc	e from borehole	e centre:	d=	1.15	1.15	1.15	5	5	5
	Measure	ment limit K = 5	5E-14 m/s	Diaper area=	0.03465	0.03465	0.03465	0.03465	0.03465	0.03465
				P (m) in rock=	7.3	24.7	108	50	133.3	220
				Median K=	4.7E-13	1.4E-13	5.0E-14	1.6E-13	5.8E-14	5.0E-14
A1	1	0	-1.065	1.25E-06	2.1E-12	6.2E-13	1.4E-13	6.9E-13	2.6E-13	1.6E-13
A1	2	0	-1.38	1.46E-06	2.4E-12	7.2E-13	1.7E-13	8.1E-13	3.0E-13	1.8E-13
A1	3	0	-1.695	1.19E-06	2.0E-12	5.9E-13	1.4E-13	6.6E-13	2.5E-13	1.5E-13
A1	4	0	-2.01	1.47E-06	2.5E-12	7.3E-13	1.7E-13	8.1E-13	3.1E-13	1.9E-13
A1	5	0	-2.325	1.53E-06	2.6E-12	7.6E-13	1.7E-13	8.5E-13	3.2E-13	1.9E-13
A1	6	0	-2.64	1.35E-06	2.3E-12	6.7E-13	1.5E-13	7.5E-13	2.8E-13	1.7E-13
A1	7	0	-2.955	1.17E-06	2.0E-12	5.8E-13	1.3E-13	6.5E-13	2.4E-13	1.5E-13
A1	8	0	-3.27	8.54E-07	1.4E-12	4.2E-13	9.7E-14	4.7E-13	1.8E-13	1.1E-13
A1	9	0	-3.585	1.36E-06	2.3E-12	6.7E-13	1.5E-13	7.5E-13	2.8E-13	1.7E-13
B1	1	0.22	-1.065	7.73E-07	1.3E-12	3.8E-13	8.8E-14	4.3E-13	1.6E-13	9.8E-14
B1	2	0.22	-1.38	9.20E-07	1.5E-12	4.6E-13	1.0E-13	5.1E-13	1.9E-13	1.2E-13
B1	3	0.22	-1.695	6.15E-07	1.0E-12	3.0E-13	7.0E-14	3.4E-13	1.3E-13	7.8E-14
B1	4	0.22	-2.01	5.51E-07	9.2E-13	2.7E-13	6.2E-14	3.1E-13	1.1E-13	7.0E-14
B1	5	0.22	-2.325	4.87E-07	8.2E-13	2.4E-13	5.5E-14	2.7E-13	1.0E-13	6.1E-14
B1	6	0.22	-2.64	9.60E-07	1.6E-12	4.8E-13	1.1E-13	5.3E-13	2.0E-13	1.2E-13
B1	7	0.22	-2.955	8.63E-07	1.4E-12	4.3E-13	9.8E-14	4.8E-13	1.8E-13	1.1E-13
B1	8	0.22	-3.27	3.88E-07	6.5E-13	1.9E-13	5.0E-14	2.2E-13	8.1E-14	5.0E-14
B1	9	0.22	-3.585	5.23E-07	8.8E-13	2.6E-13	5.9E-14	2.9E-13	1.1E-13	6.6E-14
C1	1	0.44	-1.065	5.70E-07	9.6E-13	2.8E-13	6.5E-14	3.2E-13	1.2E-13	7.2E-14
C1	2	0.44	-1.38	5.41E-07	9.1E-13	2.7E-13	6.1E-14	3.0E-13	1.1E-13	6.8E-14
C1	3	0.44	-1.695	3.48E-07	5.8E-13	1.7E-13	5.0E-14	1.9E-13	7.3E-14	5.0E-14
C1	4	0.44	-2.01	2.28E-07	3.8E-13	1.1E-13	5.0E-14	1.3E-13	5.0E-14	5.0E-14
C1	5	0.44	-2.325	6.46E-07	1.1E-12	3.2E-13	7.3E-14	3.6E-13	1.3E-13	8.2E-14
C1	6	0.44	-2.64	1.64E-06	2.7E-12	8.1E-13	1.9E-13	9.1E-13	3.4E-13	2.1E-13
C1	7	0.44	-2.955	9.82E-07	1.6E-12	4.9E-13	1.1E-13	5.5E-13	2.0E-13	1.2E-13
C1	8	0.44	-3.27	1.86E-07	3.1E-13	9.2E-14	5.0E-14	1.0E-13	5.0E-14	5.0E-14
C1	9	0.44	-3.585	2.62E-07	4.4E-13	1.3E-13	5.0E-14	1.5E-13	5.5E-14	5.0E-14
D1	1	0.66	-1.065	4.73E-07	7.9E-13	2.3E-13	5.4E-14	2.6E-13	9.9E-14	6.0E-14
D1	2	0.66	-1.38	1.19E-07	2.0E-13	5.9E-14	5.0E-14	6.6E-14	5.0E-14	5.0E-14
D1	3	0.66	-1.695	1.72E-07	2.9E-13	8.5E-14	5.0E-14	9.5E-14	5.0E-14	5.0E-14
D1	4	0.66	-2.01	2.57E-07	4.3E-13	1.3E-13	5.0E-14	1.4E-13	5.4E-14	5.0E-14
D1	5	0.66	-2.325	3.83E-07	6.4E-13	1.9E-13	5.0E-14	2.1E-13	8.0E-14	5.0E-14
D1	6	0.66	-2.64	5.43E-07	9.1E-13	2.7E-13	6.1E-14	3.0E-13	1.1E-13	6.8E-14
D1	7	0.66	-2.955	3.22E-07	5.4E-13	1.6E-13	5.0E-14	1.8E-13	6.7E-14	5.0E-14
D1	8	0.66	-3.27	1.88E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
D1	9	0.66	-3.585	6.35E-08	1.1E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
E1	1	0.88	-1.065	6.92E-07	1.2E-12	3.4E-13	7.8E-14	3.8E-13	1.4E-13	8.7E-14
E1	2	0.88	-1.38	3.85E-07	6.5E-13	1.9E-13	5.0E-14	2.1E-13	8.0E-14	5.0E-14
E1	3	0.88	-1.695	5.26E-08	8.8E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
E1	4	0.88	-2.01	-3.57E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
E1	5	0.88	-2.325	1.80E-07	3.0E-13	8.9E-14	5.0E-14	1.0E-13	5.0E-14	5.0E-14
E1	6	0.88	-2.64	-1.69E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
E1	7	0.88	-2.955	-2.28E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
E1	8	0.88	-3.27	2.38E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
E1	9	0.88	-3.585	1.72E-07	2.9E-13	8.5E-14	5.0E-14	9.5E-14	5.0E-14	5.0E-14
F1	1	1.1	-1.065	1.71E-06	2.9E-12	8.5E-13	1.9E-13	9.5E-13	3.6E-13	2.2E-13
F1	2	1.1	-1.38	1.09E-06	1.8E-12	5.4E-13	1.2E-13	6.1E-13	2.3E-13	1.4E-13
F1	3	1.1	-1.695	7.74E-08	1.3E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
F1	4	1.1	-2.01	1.41E-07	2.4E-13	7.0E-14	5.0E-14	7.8E-14	5.0E-14	5.0E-14
F1	5	1.1	-2.325	2.91E-07	4.9E-13	1.4E-13	5.0E-14	1.6E-13	6.1E-14	5.0E-14
F1	6	1.1	-2.64	5.16E-08	8.6E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
F1	7	1.1	-2.955	6.05E-08	1.0E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
F1	8	1.1	-3.27	1.19E-07	2.0E-13	5.9E-14	5.0E-14	6.6E-14	5.0E-14	5.0E-14
F1	9	1.1	-3.585	3.51E-07	5.9E-13	1.7E-13	5.0E-14	2.0E-13	7.3E-14	5.0E-14

Plank	Diaper	O_length	Depth	Q_corrected (I/min)	K _{max} (d=1.15) (m/s)	K _{med} (d=1.15) (m/s)	K _{min} (d=1.15) (m/s)	K _{max} (d=5) (m/s)	K _{med} (d=5) (m/s)	K _{min} (d=5) (m/s)
	Distanc	ce from borehol	e centre:	d=	1.15	1.15	1.15	5	5	5
	Measure	ement limit K = {	5E-14 m/s	Diaper area=	0.03465	0.03465	0.03465	0.03465	0.03465	0.03465
				P (m) in rock=	7.3	24.7	108	50	133.3	220
				Median K≖	4.7E-13	1.4E-13	5.0E-14	1.6E-13	5.8E-14	5.0E-14
G1	1	1.32	-1.065	1.07E-06	1.8E-12	5.3E-13	1.2E-13	6.0E-13	2.2E-13	1.4E-13
G1	2	1.32	-1.38	1.73E-06	2.9E-12	8.6E-13	2.0E-13	9.6E-13	3.6E-13	2.2E-13
G1	3	1.32	-1.695	1.76E-07	2.9E-13	8.7E-14	5.0E-14	9.8E-14	5.0E-14	5.0E-14
G1	4	1.32	-2.01	1.09E-07	1.8E-13	5.4E-14	5.0E-14	6.1E-14	5.0E-14	5.0E-14
G1	5	1.32	-2.325	3.32E-07	5.6E-13	1.6E-13	5.0E-14	1.8E-13	6.9E-14	5.0E-14
G1	6	1.32	-2.64	5.13E-07	8.6E-13	2.5E-13	5.8E-14	2.8E-13	1.1E-13	6.5E-14
G1	7	1.32	-2.955	9.82E-08	1.6E-13	5.0E-14	5.0E-14	5.5E-14	5.0E-14	5.0E-14
G1	8	1.32	-3.27	2.80E-07	4.7E-13	1.4E-13	5.0E-14	1.6E-13	5.8E-14	5.0E-14
G1	9	1.32	-3.585	1.24E-07	2.1E-13	6.2E-14	5.0E-14	6.9E-14	5.0E-14	5.0E-14
H1	1	1.54	-1.065	6.94E-07	1.2E-12	3.4E-13	7.9E-14	3.9E-13	1.4E-13	8.8E-14
H1	2	1.54	-1.38	9.38E-07	1.6E-12	4.7E-13	1.1E-13	5.2E-13	2.0E-13	1.2E-13
H1	3	1.54	-1.695	1.61E-07	2.7E-13	8.0E-14	5.0E-14	8.9E-14	5.0E-14	5.0E-14
H1	4	1.54	-2.01	-9.72E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
H1	5	1.54	-2.325	2.49E-07	4.2E-13	1.2E-13	5.0E-14	1.4E-13	5.2E-14	5.0E-14
H1	6	1.54	-2.64	6.00E-07	1.0E-12	3.0E-13	6.8E-14	3.3E-13	1.2E-13	7.6E-14
H1	7	1.54	-2.955	-4.76E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
H1	8	1.54	-3.27	8.63E-08	1.4E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
H1	9	1.54	-3.585	2.26E-07	3.8E-13	1.1E-13	5.0E-14	1.3E-13	5.0E-14	5.0E-14
11	1	1.76	-1.065	1.40E-06	2.3E-12	6.9E-13	1.6E-13	7.8E-13	2.9E-13	1.8E-13
11	2	1.76	-1.38	5.16E-07	8.6E-13	2.6E-13	5.8E-14	2.9E-13	1.1E-13	6.5E-14
11	3	1.76	-1.695	1.18E-07	2.0E-13	5.9E-14	5.0E-14	6.6E-14	5.0E-14	5.0E-14
11	4	1.76	-2.01	4.92E-07	8.2E-13	2.4E-13	5.6E-14	2.7E-13	1.0E-13	6.2E-14
11	5	1.76	-2.325	5.02E-07	8.4E-13	2.5E-13	5.7E-14	2.8E-13	1.0E-13	6.3E-14
11	6	1.76	-2.64	5.53E-07	9.3E-13	2.7E-13	6.3E-14	3.1E-13	1.2E-13	7.0E-14
11	7	1.76	-2.955	1.11E-07	1.9E-13	5.5E-14	5.0E-14	6.2E-14	5.0E-14	5.0E-14
11	8	1.76	-3.27	1.45E-07	2.4E-13	7.2E-14	5.0E-14	8.0E-14	5.0E-14	5.0E-14
11	9	1.76	-3.585	3.04E-07	5.1E-13	1.5E-13	5.0E-14	1.7E-13	6.3E-14	5.0E-14
J1	1	1.98	-1.065	7.05E-06	1.2E-11	3.5E-12	8.0E-13	3.9E-12	1.5E-12	8.9E-13
J1	2	1.98	-1.38	1.05E-06	1.8E-12	5.2E-13	1.2E-13	5.8E-13	2.2E-13	1.3E-13
J1	3	1.98	-1.695	4.26E-07	7.1E-13	2.1E-13	5.0E-14	2.4E-13	8.9E-14	5.4E-14
J1	4	1.98	-2.01	4.28E-07	7.2E-13	2.1E-13	5.0E-14	2.4E-13	8.9E-14	5.4E-14
J1	5	1.98	-2.325	1.17E-07	2.0E-13	5.8E-14	5.0E-14	6.5E-14	5.0E-14	5.0E-14
J1	6	1.98	-2.64	8.58E-08	1.4E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
J1	7	1.98	-2.955	-2.10E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
J1	8	1.98	-3.27	6.79E-08	1.1E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
J1	9	1.98	-3.585	1.03E-07	1.7E-13	5.1E-14	5.0E-14	5.7E-14	5.0E-14	5.0E-14
К1	1	2.2	-1.065	1.25E-05	2.1E-11	6.2E-12	1.4E-12	6.9E-12	2.6E-12	1.6E-12
K1	2	2.2	-1.38	8.25E-07	1.4E-12	4.1E-13	9.4E-14	4.6E-13	1.7E-13	1.0E-13
K1	3	2.2	-1.695	1.46E-07	2.4E-13	7.2E-14	5.0E-14	8.1E-14	5.0E-14	5.0E-14
K1	4	2.2	-2.01	-5.99E-09	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
К1	5	2.2	-2.325	5.09E-08	8.5E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
К1	6	2.2	-2.64	7.98E-09	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
K1	7	2.2	-2.955	1.04E-07	1.7E-13	5.1E-14	5.0E-14	5.8E-14	5.0E-14	5.0E-14
K1	8	2.2	-3.27	-3.59E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
К1	9	2.2	-3.585	2.34E-07	3.9E-13	1.2E-13	5.0E-14	1.3E-13	5.0E-14	5.0E-14
L1	1	2.42	-1.065	1.53E-05	2.6E-11	7.6E-12	1.7E-12	8.5E-12	3.2E-12	1.9E-12
L1	2	2.42	-1.38	9.08E-07	1.5E-12	4.5E-13	1.0E-13	5.0E-13	1.9E-13	1.1E-13
L1	3	2.42	-1.695	2.72E-07	4.6E-13	1.4E-13	5.0E-14	1.5E-13	5.7E-1 <b>4</b>	5.0E-14
L1	4	2.42	-2.01	2.20E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
L1	5	2.42	-2.325	-5.19E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
L1	6	2.42	-2.64	-5.39E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
L1	7	2.42	-2.955	2.20E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
L1	8	2.42	-3.27	-8.98E-09	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14

Plank	Diaper	O_length	Depth	Q_corrected	K _{max} (d=1.15) (m/s)	K _{med} (d=1.15) (m/s)	K _{min} (d=1.15) (m/s)	K _{max} (d=5) (m/s)	K _{med} (d=5) (m/s)	K _{min} (d=5) (m/s)
	Distanc	e from borehole	centre.	(#####	1.15	1.15	1.15	5	5	5
	Measure	ment limit K = 5	E-14 m/s	Diaper area=	0.03465	0.03465	0.03465	0.03465	0.03465	0.03465
				P (m) in rock=	7.3	24.7	108	50	133.3	220
				Median K=	4.7E-13	1.4E-13	5.0E-14	1.6E-13	5.8E-14	5.0E-14
L1	9	2.42	-3.585	-4.09E-07	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
M1	1	2.64	-1.065	1.09E-06	1.8E-12	5.4E-13	1.2E-13	6.1E-13	2.3E-13	1.4E-13
M1	2	2.64	-1.38	4.42E-07	7.4E-13	2.2E-13	5.0E-14	2.5E-13	9.2E-14	5.6E-14
M1	3	2.64	-1.695	4.89E-08	8.2E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
M1	4	2.64	-2.01	5.89E-08	9.9E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
M1	5	2.64	-2.325	2.50E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
M1	6	2.64	-2.64	6.99E-08	1.2E-13	5.0E-14	5.0E-14	5.01-14	5.0E-14	5.0E-14
M1	7	2.64	-2.955	8.28E-08	1.4E-13	5.0E-14	5.0E-14	0.UE-14	5.0E-14	5.0E-14
MI	8	2.64	-3.27	1.96E-07	3.3E-13	9.7E-14	5.02-14	5 OF 14	5.0E-14	5.05-14
IVI I	9	2.04	-3.565	9.082-08	1.52-15	5.02-14	3.0L-14	3.02-14	0.0E*14	5.02-14
N1	1	2.86	-1.065	9.56E-07	1.6E-12	4.7E-13	1.1E-13	5.3E-13	2.0E-13	1.2E-13
N1	2	2.86	-1.38	2.12E-07	3.5E-13	1.0E-13	5.0E-14	1.2E-13	5.0E-14	5.0E-14
N1	3	2.86	-1.695	8.58E-08	1.4E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
N1	4	2.86	-2.01	2.10E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
N1	5	2.86	-2.325	1.80E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
N1	6	2.86	-2.64	-7.98E-09	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
N1	7	2.86	-2.955	4.99E-09	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
N1	8	2.86	-3.27	-6.79E-08	5.0E-14	5.UE-14	5.0E-14	5.UE-14	5.0E-14	5.0E-14
NI	9	2.86	-3.585	2.048-07	3.42-13	1.02-13	5.0E-14	1.12-13	5.62-14	3.02-14
01	1	3.08	-1.065	3.78E-07	6.3E-13	1.9E-13	5.0E-14	2.1E-13	7.9E-14	5.0E-14
01	2	3.08	-1.38	1.95E-07	3.3E-13	9.7E-14	5.0E-14	1.1E-13	5.0E-14	5.0E-14
01	3	3.08	-1.695	7.84E-08	1.3E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
01	4	3.08	-2.01	4.27E-08	7.2E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
01	5	3.08	-2.325	1.98E-09	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
01	6	3.08	-2.64	1,19E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.UE-14	5.0E-14
01	/ D	3.08	-2.900	2.53E-07	4.2E-13	1.5E-13	5.0E-14	1.40-13	5.3E-14	5.0E-14
01	0	3.08	-3.585	2.96E-07	2.0E-13	7 25-14	5.0E-14	8 1E-14	5.0E-14	5.0E-14
01	3	5.00	-0.000	1.402-07	2.42-13	1.22-14	0.02-14	0.12 14	0.02 11	0.02
P1	1	3.3	-1.065	8.39E-07	1.4E-12	4.2E-13	9.5E-14	4.7E-13	1.7E-13	1.1E-13
P1	2	3.3	-1.38	3.70E-07	6.2E-13	1.8E-13	5.0E-14	2.1E-13	7.7E-14	5.0E-14
P1	3	3.3	-1.695	2.83E-07	4.7E-13	1.4E-13	5.0E-14	1.6E-13	5.9E-14	5.0E-14
P1	4	3.3	-2.01	1.75E-07	2.9E-13	8.7E-14	5.0E-14	9.7E-14	5.0E-14	5.0E-14
P1	5	3.3	-2.325	-3.57E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
P1	6	3.3	-2.64	3.57E-08	6.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
P1	/	3.3	-2.955	7.04E-08	1.3E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
P1	0 0	3.3	-3.21	7.04E-08	1.2E-13	5.0E-14	5.0E-14	1.6E-13	6 1E-14	5.0E-14
FI	3	0.0	-3.365	2.352-01	4.32-13	1.52-10	0.02-14	1.02 10	0.12 11	0.02 11
Q1	1	3.52	-1.065							
Q1	2	3.52	-1.38							
Q1	3	3.52	-1.695							
Q1	4	3.52	-2.01							
Q1	5	3.52	-2.325							
Q1	6	3.52	-2.64							
Q1	7	3.52	-2.955							
ญา 01	8 9	3.52 3.52	-3.27							
<b>u</b> ()		0.04	0.000							
R1	1	3.74	-1.065							
R1 D4	2	3.74	-1.38							
RI D1	Д	3.74	-1.090							
R1	<del>,</del>	3.74	-2.01							
R1	6	3.74	-2.64							
R1	7	3.74	-2.955							

Plank	Diaper	O_length	Depth	Q_corrected (l/min)	K _{max} (d=1.15) (m/s)	K _{med} (d=1.15) (m/s)	K _{min} (d=1.15) (m/s)	K _{max} (d=5) (m/s)	K _{med} (d=5) (m/s)	K _{min} (d=5) (m/s)
	Distanc	ce from borehole	e centre:	d=	1.15	1.15	1.15	5	5	5
	Measure	ement limit K = 5	5E-14 m/s	Diaper area=	0.03465	0.03465	0.03465	0.03465	0.03465	0.03465
				P (m) in rock=	7.3	24.7	108	50	133.3	220
				Median K≖	4.7E-13	1.4E-13	5.0E-14	1.6E-13	5.8E-14	5.0E-14
R1	8	3.74	-3.27							
R1	9	3.74	-3.585							
S1	1	3.96	-1.065							
S1	2	3.96	-1.38							
S1	3	3.96	-1.695							
S1	4	3.96	-2.01							
S1	5	3.96	-2.325							
51	5	3.96	-2.64							
01 61	,	3.90	-2,900							
51	0	3.90	-3.27							
01	5	5.50	-5.565							
T1	1	4.18	-1.065							
T1	2	4.18	-1.38							
T1	3	4.18	-1.695							
T1	4	4.18	-2.01							
T1	5	4.18	-2.325							
T1	6	4.18	-2.64							
T1	7	4.18	-2.955							
T1	8	4.18	-3.27							
T1	9	4.18	-3.585							
U1	1	4.4	-1.065	1.07E-06	1.8E-12	5.3E-13	1.2E-13	5.9E-13	2.2E-13	1.4E-13
01	2	4.4	-1.38	1.10E-06	1.9E-12	5.5E-13	1.3E-13	6.1E-13	2.3E-13	1.4E-13
114	3	4.4	-1.695	5.05E-07	8.5E-13	2.5E-13	5./E-14	2.8E-13	1.1E-13	6.4E-14
01	4 5	4.4	-2.01	0./0E-U/	1.1E-12	3.4E-13	1./E-14	3.8E-13	1.4E-13	8.5E-14
111	6	4.4	-2.525	8.69E-07	2.0E-12	0.0E-13	0.85-14	0.7E-13	2.3E-13	1.00-13
U1	7	4.4	-2.955	9 855-07	1.3E-12	4.9E-13	1 1E-13	5.5E-13	2 1E-13	1.7E-13
U1	8	4.4	-3.27	8.13E-07	1.4E-12	4.0E-13	9.2E-14	4.5E-13	1.7E-13	1.0E-13
U1	9	4.4	-3.585	1.04E-06	1.7E-12	5.2E-13	1.2E-13	5.8E-13	2.2E-13	1.3E-13
V1	1	4.62	-1.065	1.75E-06	2.9E-12	8.7E-13	2.0E-13	9.7E-13	3.6E-13	2.2E-13
V1	2	4.62	-1.38	1.67E-06	2.8E-12	8.3E-13	1.9E-13	9.3E-13	3.5E-13	2.1E-13
V1	3	4.62	-1.695	8.01E-07	1.3E-12	4.0E-13	9.1E-14	4.5E-13	1.7E-13	1.0E-13
V1	4	4.62	-2.01	1.38E-06	2.3E-12	6.8E-13	1.6E-13	7.7E-13	2.9E-13	1.7E-13
V1	5	4.62	-2.325	1.77E-06	3.0E-12	8.8E-13	2.0E-13	9.8E-13	3.7E-13	2.2E-13
V1	6	4.62	-2.64	1.17E-06	2.0E-12	5.8E-13	1.3E-13	6.5E-13	2.4E-13	1.5E-13
V1	7	4.62	-2.955	4.63E-07	7.8E-13	2.3E-13	5.2E-14	2.6E-13	9.6E-14	5.8E-14
V1 V4	8	4.62	-3.27	5.51E-07	9.2E-13	2.7E-13	6.2E-14	3.1E-13	1.1E-13	7.0E-14
V1	9	4.62	-3.585	8.4/E-07	1.4E-12	4.2E-13	9.6E-14	4.7E-13	1.8E-13	1.1E-13
¥1	1	A 9A	1.065	1 475 06	255 12	7 25 12	1 75 12	0.05 42	2 15 12	1 05 12
X1	2	4.04	-1.005	1.472-00	2.35-12	7.3E-13 6.7E.13	1.72-13	0.2E-13	3.1E-13	1.92-13
X1	3	4.84	-1.695	1.01E-06	1 7E-12	5.0E-13	1.0E-13	5.6E-13	2.0E-13	1 35-13
X1	4	4.84	-2.01	1.17E-06	2.0E-12	5.8E-13	1.3E-13	6.5E-13	2.1E-13	1.5E-13
X1	5	4.84	-2.325	1.14E-06	1.9E-12	5.7E-13	1.3E-13	6.3E-13	2.4E-13	1.4E-13
X1	6	4.84	-2.64	8.23E-07	1.4E-12	4.1E-13	9.3E-14	4.6E-13	1.7E-13	1.0E-13
X1	7	4.84	-2.955	1.04E-06	1.7E-12	5.2E-13	1.2E-13	5.8E-13	2.2E-13	1.3E-13
X1	8	4.84	-3.27	2.12E-06	3.5E-12	1.0E-12	2.4E-13	1.2E-12	4.4E-13	2.7E-13
X1	9	4.84	-3.585	3.02E-06	5.1E-12	1.5E-12	3.4E-13	1.7E-12	6.3E-13	3.8E-13
Y1	1	5.06	-1.065	2.48E-06	4.2E-12	1.2E-12	2.8E-13	1.4E-12	5.2E-13	3.1E-13
Y1	2	5.06	-1.38	1.21E-05	2.0E-11	6.0E-12	1.4E-12	6.7E-12	2.5E-12	1.5E-12
Y1	3	5.06	-1.695	1.16E-05	1.9E-11	5.7E-12	1.3E-12	6.4E-12	2.4E-12	1.5E-12
Y1	4	5.06	-2.01	1.39E-05	2.3E-11	6.9E-12	1.6E-12	7.7E-12	2.9E-12	1.8E-12
¥1	5	5.06	-2.325	1.32E-05	2.2E-11	6.5E-12	1.5E-12	7.3E-12	2.7E-12	1.7E-12
Y1	6	5.06	-2.64	2.18E-05	3.7E-11	1.1E-11	2.5E-12	1.2E-11	4.5E-12	2.8E-12

Plank	Diaper	O_length	Depth	Q_corrected (I/min)	K _{max} (d=1.15) (m/s)	K _{med} (d=1.15) (m/s)	K _{min} (d=1.15) (m/s)	K _{max} (d=5) (m/s)	K _{med} (d=5) (m/s)	K _{min} (d=5) (m/s)
	Distanc	e from borehole	e centre:	d=	1.15	1.15	1.15	5	5	5
	Measure	ement limit K = 5	6E-14 m/s	Diaper area=	0.03465	0.03465	0.03465	0.03465	0.03465	0.03465
				P (m) in rock=	7.3	24.7	108	50	133.3	220
				Median K=	4.7E-13	1.4E-13	5.0E-1 <b>4</b>	1.6E-13	5.8E-14	5.0E-14
Y1	7	5.06	-2.955	2.84E-05	4.8E-11	1.4E-11	3.2E-12	1.6E-11	5.9E-12	3.6E-12
Y1	8	5.06	-3.27	2.82E-05	4.7E-11	1.4E-11	3.2E-12	1.6E-11	5.9E-12	3.6E-12
Y1	9	5.06	-3.585	2.69E-05	4.5E-11	1.3E-11	3.0E-12	1.5E-11	5.6E-12	3.4E-12
Z1	1	5.28	-1.065	7.44E-06	1.2E-11	3.7E-12	8.4E-13	4.1E-12	1.5E-12	9.4E-13
Z1	2	5.28	-1.38	1.45E-05	2.4E-11	7.2E-12	1.6E-12	8.0E-12	3.0E-12	1.8E-12
Z1	3	5.28	-1.695	1.86E-05	3.1E-11	9.2E-12	2.1E-12	1.0E-11	3.9E-12	2.4E-12
Z1	4	5.28	-2.01	1.52E-05	2.5E-11	7.5E-12	1.7E-12	8.4E-12	3.2E-12	1.9E-12
Z1	5	5.28	-2.325	2.38E-05	4.0E-11	1.2E-11	2.7E-12	1.3E-11	5.0E-12	3.0E-12
Z1	6	5.28	-2.64	2.37E-05	4.0E-11	1.2E-11	2.7E-12	1.3E-11	4.9E-12	3.0E-12
21	/	5.28	-2.955	2.25E-05	3.8E-11	1.1E-11	2.5E-12	1.2E-11	4.7E-12	2.8E-12
Z1 71	8	5.28	-3.27	1.41E-05	2.4E-11	7.0E-12	1.6E-12	7.8E-12	2.9E-12	1.8E-12
21	9	5.28	-3.585	5.97E-06	1.0E-11	3.0E-12	6.8E-13	3.3E-12	1.2E-12	7.5E-13
A2	1	0	-0.315	1.42E-06	2.4E-12	7.0E-13	1.6E-13	7.9E-13	3.0E-13	1.8E-13
A2	2	0	-0.63	1.26E-07	2.1E-13	6.3E-14	5.0E-14	7.0E-14	5.0E-14	5.0E-14
AZ	3	0	-0.945	2.71E-07	4.6E-13	1.3E-13	5.0E-14	1.5E-13	5.7E-14	5.0E-14
A2 A2	4	0	-1.26	2.96E-07	5.0E-13	1.5E-13	5.0E-14	1.6E-13	6.2E-14	5.0E-14
A2	5	0	-1.5/5	3.06E-07	5.1E-13	1.5E-13	5.0E-14	1./E-13	6.4E-14	5.0E-14
A2 A2	7	0	-1.69	3.58E-07	6.0E-13	1.8E-13	5.0E-14	2.0E-13	7.5E-14	5.0E-14
A2	, 8	0	-2.205	2.30E-07	4.3E-13	1.3E-13	5.0E-14	1.4E-13	5.4E-14	5.0E-14
A2	9	ů O	-2.835	6.65E-07	4.0E-13	3.3E-13	7.5E-14	3.7E-13	1.4E-13	5.0E-14 8.4E-14
B2	1	0.22	-0.315	6.34E-07	1.1E-12	3.1E-13	7.2E-14	3.5E-13	1.3E-13	8.0E-14
B2	2	0.22	-0.63	2.84E-07	4.8E-13	1.4E-13	5.0E-14	1.6E-13	5.9E-14	5.0E-14
82	3	0.22	-0.945	3.53E-07	5.9E-13	1.8E-13	5.0E-14	2.0E-13	7.4E-14	5.0E-14
BZ	4	0.22	-1.26	3.13E-07	5.2E-13	1.6E-13	5.0E-14	1.7E-13	6.5E-14	5.0E-14
B2 D2	о С	0.22	-1.575	2.71E-07	4.5E-13	1.3E-13	5.0E-14	1.5E-13	5.6E-14	5.0E-14
D2 D2	0 7	0.22	-1.89	2.65E-07	4.4E-13	1.3E-13	5.0E-14	1.5E-13	5.5E-14	5.0E-14
B2	, 8	0.22	-2.200	1.502-07	2.0E-13	1.00-14	5.0E-14	8.8E-14	5.0E-14	5.02-14
B2	9	0.22	-2.32	2.69E-07	4.5E-13	1.3E-13	5.0E-14 5.0E-14	1.5E-13 1.5E-13	5.6E-14 5.6E-14	5.0E-14 5.0E-14
CZ	1	0.44	-0.315	2.57E-07	4.3E-13	1.3E-13	5.0E-14	1.4E-13	5.3E-14	5.0E-14
02	2	0.44	-0.63	9.45E-09	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
C2	3	0.44	-0.945	8.76E-08	1.5E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
C2	4	0.44	-1.26	1.74E-07	2.9E-13	8.6E-14	5.0E-14	9.6E-14	5.0E-14	5.0E-14
C2	5	0.44	-1.575	2.02E-07	3.4E-13	1.0E-13	5.0E-14	1.1E-13	5.0E-14	5.0E-14
C2	7	0.44	-2 205	1.792-07	3.0E-13	7 05 14	5.0E-14	9.9E-14	5.0E-14	5.0E-14
C2	8	0.44	-2.200	1.422-07	2.4E-13	9.95-14	5.0E-14	1.95-14	5.0E-14	5.0E-14
C2	9	0.44	-2.835	2.96E-07	5.0E-13	3.5E-14 1.5E-13	5.0E-14	1.6E-13	6.2E-14	5.0E-14 5.0E-14
D2	1	0.66	0.215	2 475 07	4 45 42	4 05 40	5 OF 44	4 45 40	<b>5</b> 45 44	5.05.44
D2	2	0.00	-0.315	2.472-07	4.12-13	1.2E-13	5.0E-14	1.45-13	5.1E-14	5.0E-14
D2	3	0.66	-0.03	2 94E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
D2	4	0.66	-1.26	1 195-07	2.05-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
D2	5	0.66	-1.575	-8.64E-10	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
D2	6	0.66	-1.89	1.92E-07	3.2E-13	9.5E-14	5.0E-14	1 1E-13	5.0E-14	5.0E-14
D2	7	0.66	-2.205	5.79E-08	9.7E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
D2	8	0.66	-2.52	-5.18E-09	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0F-14
D2	9	0.66	-2.835	1.89E-07	3.2E-13	9.4E-14	5.0E-14	1.1E-13	5.0E-14	5.0E-14
F2	1	A 99	0.215	P 225 00	4 45 40	E 05 4 1	<b>F</b> 0 <b>F</b> 4 -			
E2	י ז	0.00	-0.315	0.332-08	1.4E-13	5.UE-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
 F2	2	0.00	-0.03	-1.000-08	5.0E-14	5.UE-14	5.UE-14	5.0E-14	5.0E-14	5.UE-14
 E2	4	0.88	-0.940	-5 12 -09	5.0E-14	5.0E-14	5.0E-14	5.UE-14	D.UE-14	5.UE-14
 E2	5	0.00	-1.20	-3.120-00	5.0E-14	5.0E-14	5.0E-14	5.UE-14	5.0E-14	5.0E-14
	•	5.00	1.575	-0.012-00	0.00-14	J.UE-14	0.0E-14	0.0E-14	3.UE-14	0.0E-14

Plank	Diaper	O_length	Depth	Q_corrected (I/min)	K _{max} (d=1.15) (m/s)	K _{med} (d=1.15) (m/s)	K _{min} (d=1.15) (m/s)	K _{max} (d=5) (m/s)	K _{med} (d=5) (m/s)	K _{min} (d=5) (m/s)
	Distanc	e from borehole	e centre:	(******) d=	1.15	1.15	1.15	5	5	5
	Measure	ment limit K = 5	E-14 m/s	Diaper area=	0.03465	0.03465	0.03465	0.03465	Kmmed (d=5) (m/s)   5   0.03465   133.3   5.8E-14   5.0E-14   <	0.03465
				P (m) in rock=	7.3	24.7	108	50	133.3	220
				Median K=	4.7E-13	1.4E-13	5.0E-14	1.6E-13	5.8E-14	5.0E-14
E2	6	0.88	-1.89	8.33E-08	1.4E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
E2	7	0.88	-2.205	1.46E-07	2.4E-13	7.2E-14	5.0E-14	8.1E-14	5.0E-14	5.0E-14
E2	8	0.88	-2.52	6.68E-08	1.1E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
E2	9	0.88	-2.835	4.21E-07	7.1E-13	2.1E-13	5.0E-14	2.3E-13	8.8E-14	5.3E-14
F2	1	1.1	-0.315	8.94E-08	1.5E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
F2	2	1.1	-0.63	1.08E-07	1.8E-13	5.3E-14	5.0E-14	6.0E-14	5.0E-14	5.0E-14
F2	3	1.1	-0.945	5.56E-08	9.3E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
F2	4	1.1	-1.26	1.91E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
F2 50	э с	1.1	-1.5/5	4.43E-08	7.4E-14	5.UE-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
F2	7	1.1	-1.09	9.55E-08	1.02-13	5.0E-14	5.0E-14	5.32-14	5.0E-14	5.0E-14
F2	, 8	1.1	-2.203	1.32E-06	2.25-12	5.0E-14	1.5E-13	7 3E-13	3.0E-14	1.7E-13
F2	9	1.1	-2 835	2.03E-07	3 4E-13	1 0E-13	5.0E-14	1.5E-13	5.0E-14	5 0E-14
	-		2.000	2.002 07	0.12 10		0.02 11		0.02 14	0.0214
G2	1	1.32	-0.315	1.81E-07	3.0E-13	9.0E-14	5.0E-14	1.0E-13	5.0E-14	5.0E-14
G2	2	1.32	-0.63	8.94E-08	1.5E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
G2	3	1.32	-0.945	-7.64E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
G2	4	1.32	-1.26	-5.82E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
G2	5	1.32	-1.575	-9.90E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
62	5	1.32	-1.89	4.07E-07	6.8E-13	2.0E-13	5.0E-14	2.3E-13	8.5E-14	5.1E-14
62	, 8	1.32	-2.200	1.452-08	2.4E-12	7.2E-13	1.00-13	0.1E-13	3.0E-13	1.00-13
G2	g	1.32	-2.52	4 25E-07	7 15-13	2.1E-13	5.0E-14	0.3E-13	2.4E-13	5.4E-13
02	Ŭ	1.02	-2.000	4.202-07	7.12-13	2.12-13	5.02-14	2.42-10	0.32-14	5.46-14
H2	1	1.54	-0.315	1.81E-07	3.0E-13	9.0E-14	5.0E-14	1.0E-13	5.0E-14	5.0E-14
H2	2	1.54	-0.63	-1.35E-07	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
H2	3	1.54	-0.945	-1.09E-07	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
H2	4	1.54	-1.26	-9.20E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
HZ	5	1.54	-1.575	-1.26E-07	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
⊓∠ ⊔ว	0 7	1.54	-1.89	-7.03E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
H2	, 8	1.54	-2.205	-0.232-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.02-14	5.05.14
H2	9	1.54	-2.52	-4 34E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
	Ū	1.04	-2.000	-4.040-00	0.02-14	0.02-14	5.02-14	5.02-14	0.02-14	3.02-14
12	1	1.76	-0.315	3.02E-07	5.1E-13	1.5E-13	5.0E-14	1.7E-13	6.3E-14	5.0E-14
12	2	1.76	-0.63	-2.34E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
12	3	1.76	-0.945	4.34E-09	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
12	4	1.76	-1.26	-9.11E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
12	5	1.76	-1.575	-3.56E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
12	6	1.76	-1.89	-2.26E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
12	7	1.76	-2.205	-9.11E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
12	8	1.76	-2.52	-3.39E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
12	9	1.70	-2.835	4.00E-08	7./E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
J2	1	1.98	-0.315	4.22E-07	7.1E-13	2.1E-13	5.0E-14	2.3E-13	8.8E-14	5.3E-14
J2	2	1.98	-0.63	4.62E-08	7.8E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
J2	3	1.98	-0.945	1.87E-07	3.1E-13	9.3E-14	5.0E-14	1.0E-13	5.0E-14	5.0E-14
J2	4	1.98	-1.26	2.87E-07	4.8E-13	1.4E-13	5.0E-14	1.6E-13	6.0E-14	5.0E-14
J2	5	1.98	-1.575	3.40E-08	5.7E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
J2	6	1.98	-1.89	1.57E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
J2 12	(	1.98	-2.205	-4.71E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
JZ 12	8	1.98	-2.52	2.97E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
JΖ	а	1.98	-2.835	2.762-07	4.6E-13	1.4E-13	5.0 <b>⊢-14</b>	1.5 <b>⊢</b> -13	5./E-14	5.0E-14
К2	1	2.2	-0.315	3.78E-07	6.3E-13	1.9E-13	5.0E-14	2.1E-13	7.9E-14	5.0E-14
К2	2	2.2	-0.63	2.94E-07	4.9E-13	1.5E-13	5.0E-14	1.6E-13	6.1E-14	5.0E-14
K2	3	2.2	-0.945	1.66E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
K2	4	2.2	-1.26	8.46E-08	1.4E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14

Plank	Diaper	O_length	Depth	Q_corrected	K _{max} (d=1.15)	K _{med} (d=1.15)	K _{min} (d=1.15)	K _{max} (d=5)	K _{med} (d=5) (m/s)	K _{min} (d=5)
	Distanc	e from borehole	e centre:	(//////) d=	1.15	1.15	1.15	5	5	(11/5)
	Measure	ment limit K = 5	5E-14 m/s	– Diaper area=	0.03465	0.03465	0,03465	0.03465	0.03465	0.03465
				P (m) in rock=	7.3	24.7	108	50	133.3	220
				Median K=	4.7E-13	1.4E-13	5.0E-14	1.6E-13	5.8E-14	5.0E-14
К2	5	2.2	-1.575	6.54E-08	1.1E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
K2	6	2.2	-1.89	1.30E-07	2.2E-13	6.4E-14	5.0E-14	7.2E-14	5.0E-14	5.0E-14
K2	7	2.2	-2.205	5.50E-08	9.2E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
K2	8	2.2	-2.52	4.28E-08	7.2E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
K2	9	2.2	-2.835	6.98E-08	1.2E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
L2	1	2.42	-0.315	3.37E-07	5.6E-13	1.7E-13	5.0E-14	1.9E-13	7.0E-14	5.0E-14
L2	2	2.42	-0.63	5.50E-08	9.2E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
L2	3	2.42	-0.945	6.11E-08	1.0E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
L2	4	2.42	-1.26	6.28E-08	1.1E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
L2	5	2.42	-1.575	1.11E-07	1.9E-13	5.5E-14	5.0E-14	6.2E-14	5.0E-14	5.0E-14
L2	6	2.42	-1.89	8.81E-08	1.5E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
L2	7	2.42	-2.205	3.49E-08	5.9E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
LZ	8	2.42	-2.52	5.58E-08	9.4E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
LZ	9	2.42	-2.835	1. <b>34</b> E-07	2.2E-13	6.6E-14	5.0E-14	/.4E-14	5.0E-14	5.0E-14
M2	1	2.64	-0.315	3.53E-07	5.9E-13	1.8E-13	5.0E-14	2.0E-13	7.4E-14	5.0E-14
M2	2	2.64	-0.63	6.34E-08	1.1E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
M2	3	2.64	-0.945	4.77E-08	8.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
M2	4	2.64	-1.26	3.39E-08	5.7E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
M2	5	2.64	-1.575	2.95E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
MZ M2	5	2.64	-1.89	9.55E-08	1.6E-13	5.0E-14	5.0E-14	5.3E-14	5.0E-14	5.0E-14
M2	, 9	2.04	-2.205	1.04E-08	5.0E-14	5.05-14	5.0E-14	5.0E-14	5.0E-14	5.UE-14
M2	9	2.04	-2.52	1.02E-08	2.0E-14	5.0E-14	5.0E-14	5.UE-14	5.0E-14	5.0E-14
	Ū	2.04	-2.035	1.212-07	2.02-13	0.02-14	5.62-14	0.7 2-14	3.0E-14	5.0E-14
N2	1	2.86	-0.315	1.79E-07	3.0E-13	8.9E-14	5.0E-14	9.9E-14	5.0E-14	5.0E-14
N2	2	2.86	-0.63	6.34E-08	1.1E-13	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
N2	3	2.86	-0.945	2.69E-08	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14	5.0E-14
N2	4	2.86	-1.26	1.68E-07	2.8E-13	8.3E-14	5.0E-14	9.3E-1 <b>4</b>	5.0E-14	5.0E-14
N2	5	2.86	-1.575	1.41E-07	2.4E-13	7.0E-14	5.0E-14	7.9E-14	5.0E-14	5.0E-14
NZ NO	5	2.86	-1.89	2.20E-07	3.7E-13	1.1E-13	5.0E-14	1.2E-13	5.0E-14	5.0E-14
N2	/ 0	2.00	-2.205	1.52E-07	2.5E-13	7.5E-14	5.0E-14	8.4E-14	5.0E-14	5.0E-14
NZ N2	0	2.80	-2.52	1.74E-07	2.9E-13	8.7E-14	5.0E-14	9.7E-14	5.0E-14	5.0E-14
112	5	2.80	-2.635	1.73E-07	2.95-13	8.00-14	5.0E-14	9.05-14	5.0E-14	5.0E-14
02	1 .	3.08	-0.315	4.61E-07	7.7E-13	2.3E-13	5.2E-14	2.6E-13	9.6E-14	5.8E-14
02	2	3.08	-0.63	2.54E-07	4.3E-13	1.3E-13	5.0E-14	1.4E-13	5.3E-14	5.0E-14
02	3	3.08	-0.945	1.57E-07	2.6E-13	7.8E-14	5.0E-14	8.7E-14	5.0E-14	5.0E-14
02	4	3.08	-1.26	3.29E-07	5.5E-13	1.6E-13	5.0E-14	1.8E-13	6.9E-14	5.0E-14
02	5	3.08	-1.5/5	4.19E-07	7.0E-13	2.1E-13	5.0E-14	2.3E-13	8.7E-14	5.3E-14
02	7	3.08	-1.89	3.16E-07	5.3E-13	1.6E-13	5.UE-14	1.8E-13	6.6E-14	5.0E-14
02	8	3.00	-2.205	4.01E-07	7.7E-13	2.3E-13	5.2E-14	2.6E-13	9.6E-14	5.8E-14
02	9	3.08	-2.835	9.06E-07	1.5E-12	4.5E-13	1.0E-14	1.9E-13 5.0E-13	1.9E-14	1.1E-13
-										
P2	1	3.3	-0.315	9.89E-07	1.7E-12	4.9E-13	1.1E-13	5.5E-13	2.1E-13	1.2E-13
P2 D2	2	3.3	-0.63	5.72E-07	9.6E-13	2.8E-13	6.5E-14	3.2E-13	1.2E-13	7.2E-14
F2 P2	3 A	3.3	-0.945	3.44E-U/	5.8E-13	1./E-13	5.UE-14	1.9E-13	7.2E-14	5.0E-14
F 4 P 2	+ K	3.3 3.3	-1.20	3.30E-U/	1.UE-12 6.2E 42	3.0E-13	0.8E-14	3.3E-13	1.2E-13	7.5E-14
P2	6 R	3.3 2.2	-1.975	3./ IE-U/	0.2E-13	1.05-13	5.0E-14	2.1E-13	1./E-14	5.UE-14
P2	7	3.3	-1.09	4.10E-01	7 05-13	2.4E-13	5.4E-14	2.02-13	3.9E-14	0.0E-14
P2	8	33	-2.200	3.92E-07	6.6E-13	1.95-13	5.0E-14	2.00-13	5.0E-14 8.2E-14	5.0E-14
P2	9	3.3	-2.835	6.17E-07	1.0E-12	3.1E-13	7.0E-14	3.4E-13	1.3E-14	7.8E-14
		-								
Q2	1	3.52	-0.315							
Q2	2	3.52	-0.63							
Q2	3	3.52	-0.945							

Plank	Diaper	O_length	Depth	Q_corrected	K _{max} (d=1.15) (m/s)	K _{med} (d=1.15) (m/s)	K _{min} (d=1.15) (m/s)	K _{max} (d=5) (m/s)	K _{med} (d=5)	K _{min} (d=5)
	Distance from borehole centre:		(#1141) d=	1.15	1.15	(11/3)	5	5	(112S) 5	
	Measure	ement limit K =	5E-14 m/s	Diaper area=	0.03465	0.03465	0.03465	0.03465	0.03465	0.03465
				P (m) in rock=	7.3	24.7	108	50	133.3	220
				Median K=	4.7E-13	1.4E-13	5.0E-14	1.6E-13	5.8E-14	5.0E-14
Q2	4	3.52	-1.26							
Q2	5	3.52	-1.575							
Q2	6	3.52	-1.89							
Q2	7	3.52	-2.205							
Q2	8	3.52	-2.52							
Q2	9	3.52	-2.835							
R2	1	3.74	-0.315							
R2	2	3.74	-0.63							
R2	3	3.74	-0.945							
R2	4	3.74	-1.26							
R2	5	3.74	-1.575							
R2	6	3.74	-1.89							
R2	7	3.74	-2.205							
R2	8	3.74	-2.52							
RZ	9	3.74	-2.835							
S2	1	3.96	-0.315							
S2	2	3.96	~0.63							
S2	3	3.96	-0.945							
S2	4	3.96	-1.26							
S2	5	3.96	-1.575							
S2	6	3.96	-1.89							
S2 S2	7	3.96	-2.205							
52 62	0	3.96	-2.52							
52	9	3.90	-2.835							
T2	1	4.18	-0.315							
T2	2	4.18	-0.63							
T2	3	4.18	-0.945							
T2	4	4.18	-1.26							
T2	5	4.18	-1.575							
12	6 	4.18	-1.89							
12 T2	0	4.18	-2.205							
12 T2	0	4.18	-2.52							
12	5	4.10	-2.835							
U2	1	4.4	-0.315	1.42E-05	2.4E-11	7.0E-12	1.6E-12	7.9E-12	3.0E-12	1.8E-12
U2	2	4.4	-0.63	1.81E-06	3.0E-12	9.0E-13	2.1E-13	1.0E-12	3.8E-13	2.3E-13
U2	3	4,4	-0.945	3.11E-06	5.2E-12	1.5E-12	3.5E-13	1.7E-12	6.5E-13	3.9E-13
02	4	4.4	-1.26	1.62E-06	2.7E-12	8.1E-13	1.8E-13	9.0E-13	3.4E-13	2.0E-13
02	5	4.4	-1.575	1.47E-06	2.5E-12	7.3E-13	1.7E-13	8.1E-13	3.1E-13	1.9E-13
112	0 7	4.4	-1.89	1.49E-06	2.5E-12	7.4E-13	1.7E-13	8.3E-13	3.1E-13	1.9E-13
112	, 8	4.4	-2.205	7.46E-07	1.3E-12	3.7E-13	8.5E-14	4.1E-13	1.6E-13	9.4E-14
U2	9	4.4	-2.52	1.74E-00	2.96-12	8.6E-13	2.0E-13	9.7E-13	3.6E-13	2.2E-13
	Ū	7.7	-2,000	1.522-00	2.35-12	7.5E-13	1./E-13	8.4E-13	3.2E-13	1.9E-13
V2	1	4.62	-0.315	1.74E-05	2.9E-11	8.6E-12	2.0E-12	9.7E-12	3.6E-12	2.2E-12
V2	2	4.62	-0.63	8.73E-06	1.5E-11	4.3E-12	9.9E-13	4.8E-12	1.8E-12	1.1E-12
VZ V2	3	4.62	-0.945	1.36E-06	2.3E-12	6.7E-13	1.5E-13	7.6E-13	2.8E-13	1.7E-13
V2 V2	4	4.62	-1.26	9.86E-07	1.7E-12	4.9E-13	1.1E-13	5.5E-13	2.1E-13	1.2E-13
V2 \/2	5	4.62	-1.575	7.91E-07	1.3E-12	3.9E-13	9.0E-14	4.4E-13	1.6E-13	1.0E-13
v∡ \/2	0 7	4.62	-1.89	5.46E-07	9.2E-13	2.7E-13	6.2E-14	3.0E-13	1.1E-13	6.9E-14
V2	/ 8	4.02	-2.205	7.09E-07	1.2E-12	3.5E-13	8.0E-14	3.9E-13	1.5E-13	9.0E-14
V2	9	4.62	-2.32	1.132-00	1.9E-12 2.3E 12	5.6E-13	1.3E-13	6.3E-13	2.4E-13	1.4E-13
-	-		-2.000	1.502-00	2.30-12	0.72-13	1.5E-13	7.5⊑-13	2.8E-13	1./ <b>E-13</b>
X2	1	4.84	-0.315	1.88E-05	3.1E-11	9.3E-12	2.1E-12	1.0E-11	3.9E-12	2.4E-12
×2	2	4.84	-0.63	2.08E-05	3.5E-11	1.0E-11	2.4E-12	1.2E-11	4.3E-12	2.6E-12

Plank	Diaper	O_length	Depth	Q_corrected (1/min)	K _{max} (d=1.15) (m/s)	K _{med} (d=1.15) (m/s)	K _{min} (d=1.15) (m/s)	K _{max} (d=5) (m/s)	K _{med} (d=5) (m/s)	K _{min} (d=5) (m/s)
	Distanc	Distance from borehole centre: Measurement limit K ≈ 5E-14 m/s			1.15	1.15	1.15	5	5	5
	Measure				0.03465	0.03465	0.03465	0.03465	0.03465	0.03465
				P (m) in rock=	7.3	24.7	108	50	133.3	220
				Median K=	4.7E-13	1.4E-13	5.0E-14	1.6E-13	5.8E-14	5.0E-14
X2	3	4.84	-0.945	6.50E-06	1.1E-11	3.2E-12	7.4E-13	3.6E-12	1.4E-12	8.2E-13
X2	4	4.84	-1.26	4.06E-07	6.8E-13	2.0E-13	5.0E-14	2.3E-13	8.5E-14	5.1E-14
X2	5	4.84	-1.575	4.18E-07	7.0E-13	2.1E-13	5.0E-14	2.3E-13	8.7E-14	5.3E-14
X2	6	4.84	-1.89	3.25E-07	5.5E-13	1.6E-13	5.0E-14	1.8E-13	6.8E-14	5.0E-14
X2	7	4.84	-2.205	2.81E-07	4.7E-13	1.4E-13	5.0E-14	1.6E-13	5.9E-14	5.0E-14
X2	8	4.84	-2.52	5.82E-07	9.8E-13	2.9E-13	6.6E-14	3.2E-13	1.2E-13	7.3E-14
X2	9	4.84	-2.835	1.12E-06	1.9E-12	5.6E-13	1.3E-13	6.2E-13	2.3E-13	1.4E-13
Y2	1	5.06	-0.315	2.34E-05	3.9E-11	1.2E-11	2.7E-12	1.3E-11	4.9E-12	3.0E-12
Y2	2	5.06	-0.63	2.75E-05	4.6E-11	1.4E-11	3.1E-12	1.5E-11	5.7E-12	3.5E-12
Y2	3	5.06	-0.945	2.77E-05	4.6E-11	1.4E-11	3.1E-12	1.5E-11	5.8E-12	3.5E-12
Y2	4	5.06	-1.26	3.22E-05	5.4E-11	1.6E-11	3.6E-12	1.8E-11	6.7E-12	4.1E-12
Y2	5	5.06	-1.575	3.09E-05	5.2E-11	1.5E-11	3.5E-12	1.7E-11	6.4E-12	3.9E-12
Y2	6	5.06	-1.89	1.73E-05	2.9E-11	8.6E-12	2.0E-12	9.6E-12	3.6E-12	2.2E-12
Y2	7	5.06	-2.205	7.67E-07	1.3E-12	3.8E-13	8.7E-14	4.3E-13	1.6E-13	9.7E-14
Y2	8	5.06	-2.52	5.04E-07	8.5E-13	2.5E-13	5.7E-14	2.8E-13	1.1E-13	6.4E-14
Y2	9	5.06	-2.835	6.49E-07	1.1E-12	3.2E-13	7.4E-14	3.6E-13	1.4E-13	8.2E-14
Z2	1	5.28	-0.315	4.70E-06	7.9E-12	2.3E-12	5.3E-13	2.6E-12	9.8E-13	5.9E-13
Z2	2	5.28	-0.63	4.36E-07	7.3E-13	2.2E-13	5.0E-14	2.4E-13	9.1E-14	5.5E-14
Z2	3	5.28	-0.945	2.35E-07	3.9E-13	1.2E-13	5.0E-14	1.3E-13	5.0E-14	5.0E-14
Z2	4	5.28	-1.26	3.19E-07	5.4E-13	1.6E-13	5.0E-14	1.8E-13	6.6E-14	5.0E-14
Z2	5	5.28	-1.575	2.27E-07	3.8E-13	1.1E-13	5.0E-14	1.3E-13	5.0E-14	5.0E-14
Z2	6	5.28	-1.89	2.48E-07	4.2E-13	1.2E-13	5.0E-14	1.4E-13	5.2E-14	5.0E-14
Z2	7	5.28	-2.205	1.78E-07	3.0E-13	8.8E-14	5.0E-14	9.9E-14	5.0E-14	5.0E-14
Z2	8	5.28	-2.52	3.00E-07	5.0E-13	1.5E-13	5.0E-14	1.7E-13	6.2E-14	5.0E-14
Z2	9	5.28	-2.835	4.58E-07	7.7E-13	2.3E-13	5.2E-14	2.5E-13	9.5E-14	5.8E-14
# Part 3Statistics of hydraulic conductivityestimations

This part presents the detatiled result of a one-variable analysis of the hydraulic conductivity presented in Part 2 in this appendix. The software used is Statgraphics version 4.0.

Distribution characteristics presented in Chapter 5 is estimated from the dashed line, if it is drawn in the figures below, and from the calculated characteristics otherwise.

Analysis Summary

Data variable: Log_Kmin_1.15_m

378 values ranging from -13.301 to -11.4437

The StatAdvisor

This procedure is designed to summarize a single sample of data. It will calculate various statistics and graphs. Also included in the procedure are confidence intervals and hypothesis tests. Use the Tabular Options and Graphical Options buttons on the analysis toolbar to access these different procedures.

Summary Statistics for Log_Kmin_1.15_m

Count = 378 Average = -13.0726Median = -13.301Mode = -13.301Geometric mean = Variance = 0.204936Standard deviation = 0.452698Standard error = 0.0232843Minimum = -13.301Maximum = -11.4437Range = 1.85733Lower quartile = -13.301Upper quartile = -13.0132Interquartile range = 0.287802Skewness = 2.35386Stnd. skewness = 18.6832Kurtosis = 4.642Stnd. kurtosis = 18.4224Coeff. of variation = -3.46296% Sum = -4941.44

The StatAdvisor

This table shows summary statistics for Log_Kmin_1.15_m. It includes measures of central tendency, measures of variability, and measures of shape. Of particular interest here are the standardized skewness and standardized kurtosis, which can be used to determine whether the sample comes from a normal distribution. Values of these statistics outside the range of -2 to +2 indicate significant departures from normality, which would tend to invalidate any statistical test regarding the standard deviation. In this case, the standardized skewness value is not within the range expected for data from a normal distribution. The standardized kurtosis value is not within the range expected for data from a normal distribution.

Percentiles for Log_Kmin_1.15_m

1.0% = -13.301 5.0% = -13.301 10.0% = -13.301 25.0% = -13.301 50.0% = -13.301 75.0% = -13.0132 90.0% = -12.6778 95.0% = -11.7696 99.0% = -11.4949

# The StatAdvisor

This pane shows sample percentiles for Log_Kmin_1.15_m. The percentiles are values below which specific percentages of the data are found. You can see the percentiles graphically by selecting Quantile Plot from the list of Graphical Options.

## Frequency Tabulation for Log_Kmin_1.15_m

Class	Lower Limit	Upper Limit	Midpoint	Frequency	Relative Frequency	Cumulative Frequency	Cum. Rel. Frequency
at	or below	-16.0		0	0.0000	0	0.0000
1	-16.0	-15.0	-15.5	0	0.0000	0	0.0000
2	-15.0	-14.0	-14.5	0	0.0000	0	0.0000
3	-14.0	-13.0	-13.5	289	0.7646	289	0.7646
4	-13.0	-12.0	-12.5	62	0.1640	351	0.9286
5	-12.0	-11.0	-11.5	27	0.0714	378	1.0000
6	-11.0	-10.0	-10.5	0	0.0000	378	1.0000
7	-10.0	-9.0	-9.5	0	0.0000	378	1.0000
above	-9.0			0	0.0000	378	1.0000

Mean = -13.0726 Standard deviation = 0.452698

#### The StatAdvisor

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This option performs a frequency tabulation by dividing the range of Log_Kmin_1.15_m into equal width intervals and counting the number of data values in each interval. The frequencies show the number of data values in each interval, while the relative frequencies show the proportions in each interval. You can change the definition of the intervals by pressing the alternate mouse button and selecting Pane Options. You can see the results of the tabulation graphically by selecting Frequency Histogram from the list of Graphical Options.



Histogram for Log_Kmin_1.15_m

Normal Probability Plot for Log_Kmin_1.15_m



Analysis Summary

Data variable: Log Kmean 1.15 m

378 values ranging from -13.301 to -10.7959

The StatAdvisor

This procedure is designed to summarize a single sample of data. It will calculate various statistics and graphs. Also included in the procedure are confidence intervals and hypothesis tests. Use the Tabular Options and Graphical Options buttons on the analysis toolbar to access these different procedures.

Summary Statistics for Log_Kmean_1.15_m

Count = 378Average = -12.7151Median = -12.8539Mode = -13.301Geometric mean Variance = 0.413613Standard deviation = 0.643128Standard error = 0.0330789Minimum = -13.301Maximum = -10.7959Range = 2.50515Lower quartile = -13.301Upper quartile = -12.3768Interquartile range = 0.924279 Skewness = 1.29797Stnd. skewness = 10.3024Kurtosis = 1.19621Stnd. kurtosis = 4.74733Coeff. of variation = -5.05797% Sum = -4806.32

The StatAdvisor

This table shows summary statistics for Log_Kmean_1.15_m. It includes measures of central tendency, measures of variability, and measures of shape. Of particular interest here are the standardized skewness and standardized kurtosis, which can be used to determine whether the sample comes from a normal distribution. Values of these statistics outside the range of -2 to +2 indicate significant departures from normality, which would tend to invalidate any statistical test regarding the standard deviation. In this case, the standardized skewness value is not within the range expected for data from a normal distribution. The standardized kurtosis value is not within the range expected for data from a normal distribution.

Percentiles for Log_Kmean_1.15_m

1.0% = -13.301 5.0% = -13.301 10.0% = -13.301 25.0% = -13.301 50.0% = -12.8539 75.0% = -12.3768 90.0% = -12.0458 95.0% = -11.124999.0% = -10.8539

# The StatAdvisor

This pane shows sample percentiles for Log_Kmean_1.15_m. The percentiles are values below which specific percentages of the data are found. You can see the percentiles graphically by selecting Quantile Plot from the list of Graphical Options.

## Frequency Tabulation for Log_Kmean_1.15_m

Class	Lower Limit	Upper Limit	Midpoint	Frequency	Relative Frequency	Cumulative Frequency	Cum. Rel. Frequency
at	or below	-16.0		0	0.0000	0	0.0000
1	-16.0	-15.0	-15.5	0	0.0000	0	0.0000
2	-15.0	-14.0	-14.5	0	0.0000	0	0.0000
3	-14.0	-13.0	-13.5	165	0.4365	165	0.4365
4	-13.0	-12.0	-12.5	177	0.4683	342	0.9048
5	-12.0	-11.0	-11.5	24	0.0635	366	0.9683
6	-11.0	-10.0	-10.5	12	0.0317	378	1.0000
7	~10.0	-9.0	-9.5	0	0.0000	378	1.0000
above	-9.0			0	0.0000	378	1.0000

Mean = -12.7151 Standard deviation = 0.643128

# The StatAdvisor

This option performs a frequency tabulation by dividing the range of Log_Kmean_1.15_m into equal width intervals and counting the number of data values in each interval. The frequencies show the number of data values in each interval, while the relative frequencies show the proportions in each interval. You can change the definition of the intervals by pressing the alternate mouse button and selecting Pane Options. You can see the results of the tabulation graphically by selecting Frequency Histogram from the list of Graphical Options.



Histogram for Log_Kmean_1.15_m

Normal Probability Plot for Log_Kmean_1.15_m



Analysis Summary

Data variable: Log_Kmax_1.15_m

378 values ranging from -13.301 to -10.2676

The StatAdvisor

This procedure is designed to summarize a single sample of data. It will calculate various statistics and graphs. Also included in the procedure are confidence intervals and hypothesis tests. Use the Tabular Options and Graphical Options buttons on the analysis toolbar to access these different procedures.

Summary Statistics for Log_Kmax_1.15_m

Count = 378Average = -12.2995Median = -12.3279Mode = -13.301Geometric mean = Variance = 0.587196Standard deviation = 0.766287Standard error = 0.0394136Minimum = -13.301Maximum = -10.2676Range = 3.03342Lower quartile = -12.8861Upper quartile = -11.8539Interquartile range = 1.03218 Skewness = 0.686315Stnd. skewness = 5.44746Kurtosis = 0.159174Stnd. kurtosis = 0.631703Coeff. of variation = -6.23026% Sum = -4649.19

The StatAdvisor

This table shows summary statistics for Log_Kmax_1.15 m. It includes measures of central tendency, measures of variability, and measures of shape. Of particular interest here are the standardized skewness and standardized kurtosis, which can be used to determine whether the sample comes from a normal distribution. Values of these statistics outside the range of -2to +2 indicate significant departures from normality, which would tend to invalidate any statistical test regarding the standard deviation. In this case, the standardized skewness value is not within the range expected for data from a normal distribution. The standardized kurtosis value is within the range expected for data from a normal distribution.

Percentiles for Log_Kmax_1.15_m

# The StatAdvisor

This pane shows sample percentiles for Log_Kmax_1.15_m. The percentiles are values below which specific percentages of the data are found. You can see the percentiles graphically by selecting Quantile Plot from the list of Graphical Options.

# Frequency Tabulation for Log_Kmax_1.15_m

Class	Lower Limit	Upper Limit	Midpoint	Frequency	Relative Frequency	Cumulative Frequency	Cum. Rel. Frequency
at	or below	-16.0		0	0.0000	0	0.0000
1	-16.0	-15.0	-15.5	0	0.0000	0	0.0000
2	-15.0	-14.0	-14.5	0	0.0000	0	0.0000
3	-14.0	-13.0	-13.5	84	0.2222	84	0.2222
4	-13.0	-12.0	-12.5	181	0.4788	265	0.7011
5	-12.0	-11.0	-11.5	82	0.2169	347	0.9180
6	-11.0	-10.0	-10.5	31	0.0820	378	1.0000
7	-10.0	-9.0	-9.5	0	0.0000	378	1.0000
above	-9.0			0	0.0000	378	1.0000

Mean = -12.2995 Standard deviation = 0.766287

# The StatAdvisor

This option performs a frequency tabulation by dividing the range of Log Kmax_1.15_m into equal width intervals and counting the number of data values in each interval. The frequencies show the number of data values in each interval, while the relative frequencies show the proportions in each interval. You can change the definition of the intervals by pressing the alternate mouse button and selecting Pane Options. You can see the results of the tabulation graphically by selecting Frequency Histogram from the list of Graphical Options.



Histogram for Log_Kmax_1.15_m

Normal Probability Plot for Log_Kmax_1.15_m



Analysis Summary

Data variable: Log Kmin 5 m

378 values ranging from -13.301 to -11.3872

The StatAdvisor

This procedure is designed to summarize a single sample of data. It will calculate various statistics and graphs. Also included in the procedure are confidence intervals and hypothesis tests. Use the Tabular Options and Graphical Options buttons on the analysis toolbar to access these different procedures.

Summary Statistics for Log_Kmin_5_m

Count = 378Average = -13.0542Median = -13.301 Mode = -13.301Geometric mean Variance = 0.219056Standard deviation = 0.468035Standard error = 0.0240731Minimum = -13.301 Maximum = -11.3872 Range = 1.91381Lower quartile = -13.301Upper quartile = -12.9586Interquartile range = 0.342423 Skewness = 2.27134 Stnd. skewness = 18.0282Kurtosis = 4.30869Stnd. kurtosis = 17.0996Coeff. of variation = -3.58533% Sum = -4934.47

The StatAdvisor

This table shows summary statistics for Log_Kmin_5_m. It includes measures of central tendency, measures of variability, and measures of shape. Of particular interest here are the standardized skewness and standardized kurtosis, which can be used to determine whether the sample comes from a normal distribution. Values of these statistics outside the range of -2 to +2 indicate significant departures from normality, which would tend to invalidate any statistical test regarding the standard deviation. In this case, the standardized skewness value is not within the range expected for data from a normal distribution. The standardized kurtosis value is not within the range expected for data from a normal distribution.

Percentiles for Log_Kmin_5_m

1.0% = -13.301 5.0% = -13.301 10.0% = -13.301 25.0% = -13.301 50.0% = -13.301 75.0% = -12.9586 90.0% = -12.6383 95.0% = -11.721299.0% = -11.4437

# The StatAdvisor

This pane shows sample percentiles for Log_Kmin_5_m. The percentiles are values below which specific percentages of the data are found. You can see the percentiles graphically by selecting Quantile Plot from the list of Graphical Options.

Frequency Tabulation for Log_Kmin_5_m

Class	Lo Li	wer mit	Uppe Limi	r t	Midpoint	Frequ	lency	Relati Freque	ive ency	Cumula Freque	ative ency	Cum. Freq	Rel. uency
at o	or be	low	-16	.0			0	0.0	0000		0	0	.0000
1	-1	6.0	-15	.0	-15.5		0	0.0	0000		0	0	.0000
2	-1	5.0	-14	.0	-14.5		0	0.0	0000		0	0	.0000
3	-1	4.0	-13	.0	-13.5	28	1	0.7	7434	2	281	0	.7434
4	-1	3.0	-12	.0	-12.5	e	59	0.1	L825	3	350	0	.9259
5	-1	2.0	-11	.0	-11.5	2	8	0.0	0741	3	378	1	.0000
6	-1	1.0	-10	.0	-10.5		0	0.0	0000	-	378	1	.0000
7	-1	0.0	-9	.0	-9.5		0	0.0	0000	3	378	1	.0000
above	-	9.0					0	0.0	0000	3	378	1	.0000

Mean = -13.0542 Standard deviation = 0.468035

#### The StatAdvisor

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This option performs a frequency tabulation by dividing the range of Log_Kmin_5_m into equal width intervals and counting the number of data values in each interval. The frequencies show the number of data values in each interval, while the relative frequencies show the proportions in each interval. You can change the definition of the intervals by pressing the alternate mouse button and selecting Pane Options. You can see the results of the tabulation graphically by selecting Frequency Histogram from the list of Graphical Options.



Histogram for Log_Kmin_5_m

Normal Probability Plot for Log_Kmin_5_m



Average = -12.9518Median = -13.2329Mode = -13.301Geometric mean = Variance = 0.286273 Standard deviation = 0.535045Standard error = 0.0275197Minimum = -13.301Maximum = -11.1739 Range = 2.1271Lower quartile = -13.301Upper quartile = -12.7447Interquartile range = 0.556303 Skewness = 1.88397Stnd. skewness = 14.9535Kurtosis = 2.86722Stnd. kurtosis = 11.3789Coeff. of variation = -4.13103% Sum = -4895.79

The StatAdvisor

This table shows summary statistics for Log_Kmean_5_m. It includes measures of central tendency, measures of variability, and measures of shape. Of particular interest here are the standardized skewness and standardized kurtosis, which can be used to determine whether the sample comes from a normal distribution. Values of these statistics outside the range of -2 to +2 indicate significant departures from normality, which would tend to invalidate any statistical test regarding the standard deviation. In this case, the standardized skewness value is not within the range expected for data from a normal distribution. The standardized kurtosis value is not within the range expected for data from a normal distribution.

Percentiles for Log_Kmean_5_m

1.0% = -13.301 5.0% = -13.301 10.0% = -13.301 25.0% = -13.301 50.0% = -13.2329 75.0% = -12.7447 90.0% = -12.4202 95.0% = -11.494999.0% = -11.2291

# The StatAdvisor

This pane shows sample percentiles for Log Kmean 5 m. The percentiles are values below which specific percentages of the data are found. You can see the percentiles graphically by selecting Quantile Plot from the list of Graphical Options.

## Frequency Tabulation for Log_Kmean_5_m

Class		Lower Limit	Upper Limit	Midpoint	Frequency	Relative Frequency	Cumulative Frequency	Cum. Rel. Frequency
at	or	below	-16.0		0	0.0000	0	0.0000
1		-16.0	-15.0	-15.5	0	0.0000	0	0.0000
2		-15.0	-14.0	-14.5	0	0.0000	0	0.0000
3		-14.0	-13.0	-13.5	247	0.6534	247	0.6534
4		-13.0	-12.0	-12.5	99	0.2619	346	0.9153
5		-12.0	-11.0	-11.5	32	0.0847	378	1.0000
6		-11.0	-10.0	-10.5	0	0.0000	378	1.0000
7		-10.0	-9.0	-9.5	0	0.0000	378	1.0000
above		-9.0			0	0.0000	378	1.0000

Mean = -12.9518 Standard deviation = 0.535045

# The StatAdvisor

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This option performs a frequency tabulation by dividing the range of Log_Kmean_5_m into equal width intervals and counting the number of data values in each interval. The frequencies show the number of data values in each interval, while the relative frequencies show the proportions in each interval. You can change the definition of the intervals by pressing the alternate mouse button and selecting Pane Options. You can see the results of the tabulation graphically by selecting Frequency Histogram from the list of Graphical Options.



Histogram for Log_Kmean_5_m

Normal Probability Plot for Log_Kmean_5_m



Analysis Summary

Data variable: Log_Kmax_5_m

378 values ranging from -13.301 to -10.7447

The StatAdvisor

This procedure is designed to summarize a single sample of data. It will calculate various statistics and graphs. Also included in the procedure are confidence intervals and hypothesis tests. Use the Tabular Options and Graphical Options buttons on the analysis toolbar to access these different procedures.

Summary Statistics for Log_Kmax_5_m

Count = 378Average = -12.6802Median = -12.7959Mode = -13.301Geometric mean Variance = 0.430502Standard deviation = 0.656126Standard error = 0.0337475Minimum = -13.301Maximum = -10.7447Range = 2.5563Lower quartile = -13.301Upper quartile = -12.3279Interquartile range = 0.973128 Skewness = 1.22477Stnd. skewness = 9.72132Kurtosis = 1.02712Stnd. kurtosis = 4.07627Coeff. of variation = -5.17441% Sum = -4793.12

The StatAdvisor

This table shows summary statistics for Log_Kmax_5_m. It includes measures of central tendency, measures of variability, and measures of shape. Of particular interest here are the standardized skewness and standardized kurtosis, which can be used to determine whether the sample comes from a normal distribution. Values of these statistics outside the range of -2 to +2 indicate significant departures from normality, which would tend to invalidate any statistical test regarding the standard deviation. In this case, the standardized skewness value is not within the range expected for data from a normal distribution. The standardized kurtosis value is not within the range expected for data from a normal distribution.

Percentiles for Log_Kmax_5_m

# The StatAdvisor

This pane shows sample percentiles for Log_Kmax_5_m. The percentiles are values below which specific percentages of the data are found. You can see the percentiles graphically by selecting Quantile Plot from the list of Graphical Options.

Frequency Tabulation for Log_Kmax_5_m

Class	Lower Limit	Upper Limit	Midpoint	Frequency	Relative Frequency	Cumulative Frequency	Cum. Rel. Frequency
at	or below	-16.0		0	0.0000	0	0.0000
1	-16.0	-15.0	-15.5	0	0.0000	0	0.0000
2	-15.0	-14.0	-14.5	0	0.0000	0	0.0000
3	-14.0	-13.0	-13.5	156	0.4127	156	0.4127
4	-13.0	-12.0	-12.5	185	0.4894	341	0.9021
5	-12.0	-11.0	-11.5	24	0.0635	365	0.9656
6	-11.0	-10.0	-10.5	13	0.0344	378	1.0000
7	-10.0	-9.0	-9.5	0	0.0000	378	1.0000
above	-9.0			0	0.0000	378	1.0000

Mean = -12.6802 Standard deviation = 0.656126

#### The StatAdvisor

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This option performs a frequency tabulation by dividing the range of Log_Kmax_5_m into equal width intervals and counting the number of data values in each interval. The frequencies show the number of data values in each interval, while the relative frequencies show the proportions in each interval. You can change the definition of the intervals by pressing the alternate mouse button and selecting Pane Options. You can see the results of the tabulation graphically by selecting Frequency Histogram from the list of Graphical Options.



Histogram for Log_Kmax_5_m

Normal Probability Plot for Log_Kmax_5_m



# **APPENDIX 3 – Drilling of lead-through boreholes**

This appendix includes the following information:

- Drilling periods of lead-through boreholes KG0023A01, KG0027A01 and KG0033A01
- Pressure registration in observation sections during the period 2000-04-14 2000-04-27 (Drilling of KG0023A01, 0.0 33.40 m)
- Pressure registration in observation sections during the period 2000-05-16 2000-05-24 (Drilling of KG0027A01, 0.0 46.72 m)
- Pressure registration in observation sections during the period 2000-05-03 2000-05-15 (Drilling of KG0033A01, 0.0 56.90 m)
- Activity log of prototype repository and True Block Scale during the period 2000-04-01 2000-06-30

# KG_boring_rec.xls

Idcode	Start Date	Bhlen (m)	Sub Start Date	Sub Stop Date	Plot Time nr	Number Of Rods	Rod Length (m)	Acc Rod Length (m)	Rod Above Chuck (m)	Litre Per Minute (I/min)	Borelength
		0		2000-04-14 14:56	36630.58		<b>J</b>	<b>3</b> ,			Dorciengan
KG0023A01	2000-04-14 14:56	0.16	2000-04-14 14:56	2000-04-14 15:10	36630.59	1	1 36	1 36	12		0.16
		0.16		2000-04-14 15:20	36630.60			1.00	1.£		0,10
KG0023A01	2000-04-14 14:56	0.27	2000-04-14 15:20	2000-04-14 15:33	36630.61			1 36	1 13		0.00
		0.27		2000-04-14 16:04	36630.63			1.50	1.15		0.23
KG0023A01	2000-04-14 14:56	0.73	2000-04-14 16:04	2000-04-14 16:24	36630 64			1 36	0.63		0.70
		0.73		2000-04-14 16:39	36630.65			1.50	0.03		0.73
KG0023A01	2000-04-14 14:56	1.62	2000-04-14 16:39	2000-04-14 16:57	36630.66			4.26	0.74		
		1.62		2000-04-14 17:17	36630.68			4.30	2.14		1.62
KG0023A01	2000-04-14 14:56	2.34	2000-04-14 17.17	2000-04-14 17:30	36630.69			4.90	0.00		
		2.34		2000-04-16 16:17	36632.64			4.30	2.02		2.34
KG0023A01	2000-04-14 14:56	51	2000-04-16 16:17	2000-04-16 16:48	36632.64						
		5.1	2000 04-10 10.11	2000-04-10 10:40	30032.00			4.36	0.68		3.68
KG0023A01	2000-04-14 14:56	7 33	2000-04-25-09-52	2000-04-25 08.52	30041.33						
1100020/101	2000-04-14 14.50	7.33	2000-04-25 06.52	2000-04-25 09:24	36641.35	3	6	9.78	2.2		7.58
KC0023401	2000 04 14 14:56	7.00	2000 04 25 20 40	2000-04-25 09:40	36641.36						
KG0023A01	2000-04-14 14.50	7.90	2000-04-25 09:40	2000-04-25 09:50	36641.37	4	0.75	10.28	2.3		7.98
KC0002404	2000 04 44 44 50	7.98		2000-04-25 10:20	36641.39		-				
KGUUZ3AU1	2000-04-14 14:56	9.82	2000-04-25 10:20	2000-04-25 10:50	36641.41			10.28	0.48		9.80
1000000000		9.82		2000-04-25 16:07	36641.63						
KG0023A01	2000-04-14 14:56	11.43	2000-04-25 16:07	2000-04-25 16:35	36641.65	5	3	13.28	1.85		11.43
		11.43		2000-04-25 16:58	36641.67						
KG0023A01	2000-04-14 14:56	11.82	2000-04-25 16:58	2000-04-25 17:02	36641.67			14.78	2.96		11.82
		11.82	····	2000-04-25 17:17	36641.68						
KG0023A01	2000-04-14 14:56	14.38	2000-04-25 17:17	2000-04-25 17:44	36641.70			14.78	0.4		14.38
		14.38		2000-04-26 07:27	36642.27						
KG0023A01	2000-04-14 14:56	15.77	2000-04-26 07:27	2000-04-26 07:45	36642.28	6	3	17.78	2.01	0.4	15.77
		15.77		2000-04-26 13:58	36642.54			····			
KG0023A01	2000-04-14 14:56	17.95	2000-04-26 13:58	2000-04-26 14:15	36642.55	7	3	19.28	1 33	04	17 95
		17.95		2000-04-26 14:31	36642.56					0.1	11.00
KG0023A01	2000-04-14 14:56	20.9	2000-04-26 14:31	2000-04-26 15:31	36642.60	8	3	22.28	1.38	0.4	20.90
		20.9		2000-04-26 15:49	36642.62					V. <del>T</del>	20.30
KG0023A01	2000-04-14 14:56	23.87	2000-04-26 15:49	2000-04-26 16:24	36642.64	9	3	25.28	1.41	0.4	22.07
		23.87		2000-04-26 16:45	36642.66			20.20	1.71	0.4	23.07
KG0023A01	2000-04-14 14:56	24.42	2000-04-26 16:45	2000-04-26 16:52	36642.66	10	3	28.28	2.96		24.42
		24,42		2000-04-26 17:11	36642.67		5	20.20	5.00	0.4	24.42
KG0023A01	2000-04-14 14:56	27.78	2000-04-26 17:11	2000-04-26 17:46	36642 70			28.28	0 E	0.7	07.70
		27.78		2000-04-27 08:37	36643 32			20.20	0.5	0.7	27.78
KG0023A01	2000-04-14 14:56	29.2	2000-04-27 08:37	2000-04-27 09:01	36643 33	44		24.00			
		29.2	2000 01 21 00.07	2000-04-27 00:01	36643.35	11	3	31.28	2.08	0.7	29.20
KG0023A01	2000-04-14 14:56	32.1	2000-04-27 09:21	2000-04-27 03:21	30043.33						
	2000 01 11 14.00	32.1	2000-04-27 05.21	2000-04-27 00:03	26642.20		1.5	32.78	0.68	0.7	32.10
KG0023A01	2000-04-14 14:56	33.4	2000.04.27.10:24	2000-04-27 10:24	36643.39	10					
1100020/101	2000 04 14 14,00	00.4	2000-04-27 10.24	2000-04-27 10.43	30043.40	12	1.5	34.28	0.88	0.7	33.40
		0		2000 05 40 40-52	00000 50						
KG0027404	2000 05 16 10:52	2.42	2000 05 10 10 55	2000-05-16 12:53	36662.50						
KGUUZ/AUT	2000-03-10 12:53	2.43	2000-05-16 12:53	2000-05-16 13:33	36662.52	1	3.78	3.15	0.72		2.43
KONNEL	0000 05 10 10 5	2.43		2000-05-16 13:45	36662.53						
KG0027A01	2000-05-16 12:53	5.35	2000-05-16 13:45	2000-05-16 14:29	36662.56	1	3	6.16	0.8		5.36
		5.35		2000-05-16 14:37	36662.57						
KG0027A01	2000-05-16 12:53	8.05	2000-05-16 14:37	2000-05-16 15:13	36662.59	2	0.75	8.4	0.35		8.05
L		8.05		2000-05-17 08:02	36663.29						

# KG_boring_rec.xls

Idcode	Start Date	Bhlen (m)	Sub Start Date	Sub Stop Date	Plot_Time_nr	Number Of Rods	Rod Length (m)	Acc Rod Length (m)	Rod Above Chuck (m)	Litre Per Minute (I/min)	Borelength
KG0027A01	2000-05-16 12:53	9.92	2000-05-17 08:02	2000-05-17 08:22	36663.31	4	3	10.65	0.73	7.2	9.92
		9.92		2000-05-17 08:48	36663.33						
KG0027A01	2000-05-16 12:53	12.29	2000-05-17 08:48	2000-05-17 09:19	36663.35	5	3	13.65	1.36	7.2	12.29
		12.29		2000-05-17 10:03	36663.38						
KG0027A01	2000-05-16 12:53	14.4	2000-05-17 10:03	2000-05-17 10:44	36663.41	6	3	16.65	2.25	7.2	14.40
		14.4		2000-05-22 09:57	36668.37						
KG0027A01	2000-05-16 12:53	19.09	2000-05-22 09:57	2000-05-22 10:36	36668.40	6	3	19.65	0.56	7.2	19.09
		19.09		2000-05-22 10:55	36668.41						
KG0027A01	2000-05-16 12:53	21.13	2000-05-22 10:55	2000-05-22 11:31	36668.44	6	3	22.65	1.52	7.2	21.13
		21.13		2000-05-22 13:18	36668.51						
KG0027A01	2000-05-16 12:53	22.32	2000-05-22 13:18	2000-05-22 13:35	36668.52	7	3	24.15	1.83	7.2	22.32
		22.32		2000-05-22 13:50	36668.53						
KG0027A01	2000-05-16 12:53	23.9	2000-05-22 13:50	2000-05-22 14:30	36668.56	7	3	25.65	1.75	7.2	23.90
		23.9		2000-05-22 14:45	36668.57						
KG0027A01	2000-05-16 12:53	25.51	2000-05-22 14:45	2000-05-22 15:12	36668.59	8	3	27.15	1.64	7.2	25.51
		25.51		2000-05-23 08:48	36669.33						
KG0027A01	2000-05-16 12:53	26.08	2000-05-23 08:48	2000-05-23 09:00	36669.33	8	3	27.95	1.87	7.2	26.08
		26.08		2000-05-23 09:17	36669.35						
KG0027A01	2000-05-16 12:53	27.54	2000-05-23 09:17	2000-05-23 09:42	36669.36	9	3	30.15	2.61	7.2	27.54
		27.54		2000-05-23 10:49	36669.41				· · · · · · · · · · · · · · · · · · ·		
KG0027A01	2000-05-16 12:53	32.33	2000-05-23 10:49	2000-05-23 11:37	36669.44	10	3	33.15	0.82	7.2	32.33
		32.33		2000-05-23 13:38	36669.53						
KG0027A01	2000-05-16 12:53	33.29	2000-05-23 13:38	2000-05-23 13:56	36669.54	11	3	36.15	2.86	7.2	33.29
		33.29		2000-05-24 09:07	36670.34			·····			
KG0027A01	2000-05-16 12:53	38.61	2000-05-24 09:07	2000-05-24 09:41	36670.36	12	3	39.15	0.54	7.2	38.61
		38.61		2000-05-24 09:57	36670.37						
KG0027A01	2000-05-16 12:53	41.57	2000-05-24 09:57	2000-05-24 10:38	36670.40	13	3	42.15	0.58	7.2	41.57
		41.57		2000-05-24 11:00	36670.42						
KG0027A01	2000-05-16 12:53	44.52	2000-05-24 11:00	2000-05-24 11:47	36670.45	14	3	45.15	0.63	9	44.52
		44.52		2000-05-24 13:36	36670.53						
KG0027A01	2000-05-16 12:53	46.72	2000-05-24 13:36	2000-05-24 14:03	36670.54	15	3	48.15	1.43	······	46.72
		0		2000-05-03 07:33	36649.27	······			······		
KG0033A01	2000-05-02 17:14	0.93	2000-05-03 07:33	2000-05-03 08:15	36649.30		1.22	1.22	0.29	0	0.93
		0.93		2000-05-03 08:31	36649.31						
KG0033A01	2000-05-02 17:14	1.58	2000-05-03 08:31	2000-05-03 08:50	36649.33	1	1.63	2.85	1.27	0	1.58
		1.58		2000-05-03 09:12	36649.34						
KG0033A01	2000-05-02 17:14	2.39	2000-05-03 09:12	2000-05-03 09:29	36649.35	2	1.5	4.35	1.96	0	2.39
		2.39		2000-05-05 08:03	36651.29						
KG0033A01	2000-05-02 17:14	3.6	2000-05-05 08:03	2000-05-05 08:25	36651.31	2	3	6.73	3.13	0	3.60
		3.6		2000-05-05 08:34	36651.32						
KG0033A01	2000-05-02 17:14	4.38	2000-05-05 08:34	2000-05-05 08:52	36651.33	2	3	6.73	2.34	0	4,39
		4.38		2000-05-08 07:48	36654.28						4.00
KG0033A01	2000-05-02 17:14	5.28	2000-05-08 07:48	2000-05-08 08:09	36654.30	2	3	6.73	1.45	0	5 28
		5.28		2000-05-08 08:48	36654.33						+•
KG0033A01	2000-05-02 17:14	5.43	2000-05-08 08:48	2000-05-08 08:55	36654.33	2	1.5	8.23	2.8	0	5 43
		5.43		2000-05-08 09:13	36654.34						0.10
KG0033A01	2000-05-02 17:14	7.93	2000-05-08 09:13	2000-05-08 09:46	36654.37	2	1.5	8,23	0.3	0	7.93
		7.93		2000-05-08 14:25	36654.56						
KG0033A01	2000-05-02 17:14	10.73	2000-05-08 14:25	2000-05-08 15:01	36654.58	3	3	11.23	0.5	1.6	10.73
• • • • • • • • • • • • • • • • • • • •	·····			e							

# KG_boring_rec.xls

Idcode	Start Date	Bhlen (m)	Sub Start Date	Sub Stop Date	Plot_Time_nr	Number Of Rods	Rod Length (m)	Acc Rod Length (m)	Rod Above Chuck (m)	Litre Per Minute (I/min)	Borelength
		10.73		2000-05-08 15:17	36654.60						
KG0033A01	2000-05-02 17:14	12.78	2000-05-08 15:17	2000-05-08 15:54	36654.62	4	3	14.23	1.47	1.8	12.76
		12.78		2000-05-09 08:57	36655.33				·····		
KG0033A01	2000-05-02 17:14	15.33	2000-05-09 08:57	2000-05-09 09:43	36655.36	5	3	15.73	0.4	1.6	15.33
		15.33		2000-05-10 09:25	36656.35		····· ····				
KG0033A01	2000-05-02 17:14	17	2000-05-10 09:25	2000-05-10 10:07	36656.38	5	3	18.77	1.77	1.6	17.00
		17		2000-05-10 11:21	36656.43						
KG0033A01	2000-05-02 17:14	18.65	2000-05-10 11:21	2000-05-10 11:37	36656.44	7	3	19.48	0.83	1.6	18,65
		18.65		2000-05-10 14:13	36656.55						
KG0033A01	2000-05-02 17:14	19.46	2000-05-10 14:13	2000-05-10 14:29	36656.56	8	3	22.48	3.02	1.6	19 46
		19.46		2000-05-10 14:46	36656.57						
KG0033A01	2000-05-02 17:14	21.67	2000-05-10 14:46	2000-05-10 15:20	36656.60	8	3	22.48	0.81	1.6	21.67
		21.67	······	2000-05-10 15:39	36656.61						
KG0033A01	2000-05-02 17:14	21.73	2000-05-10 15:39	2000-05-10 15:44	36656.61	9	3	25.48	3.75	1.6	21.73
		21.73		2000-05-11 08:11	36657.30	-					
KG0033A01	2000-05-02 17:14	24.7	2000-05-11 08:11	2000-05-11 08:52	36657.33	9	3	25.48	0.78	16	24 70
	#**F.10	24.7	······································	2000-05-11 13:02	36657.50	-					21.70
KG0033A01	2000-05-02 17:14	27.6	2000-05-11 13:02	2000-05-11 13:48	36657.53	10	3	28.48	0.88	16	27.60
	· · · · · · · · · · · · · · · · · · ·	27.6		2000-05-11 14:03	36657.54			20.10	0.00	1.0	27.00
KG0033A01	2000-05-02 17:14	30.59	2000-05-11 14:03	2000-05-11 14:43	36657 57	11	3	31.48	0.89	16	30 59
		30.59		2000-05-12 09:13	36658 34			01.40	0.00	1.0	00.00
KG0033A01	2000-05-02 17:14	31.4	2000-05-12 09:13	2000-05-12 09:27	36658 35	10	3	32.27	0.87	16	31.40
		31.4		2000-05-12 09:57	36658 37		· · · · · · · · · · · · · · · · · · ·	52.27	0.07	1.0	51.40
KG0033A01	2000-05-02 17:14	34 12	2000-05-12 09.57	2000-05-12 10:46	36658 41	12	3	34.48	0.36	16	34 12
		34 12		2000-05-12 11:11	36658.42	12	v	34.40	0.50	1.0	34.12
KG0033A01	2000-05-02 17.14	34.65	2000-05-12 11:11	2000-05-12 11:11	36658 43	13	3	37.49	2.92	16	24.65
		34 65	2000 00 12 11.11	2000-05-14 08:17	36660 30	10	5	57.40	2.03	1.0	34.00
KG0033A01	2000-05-02 17:14	39.53	2000-05-14 08.17	2000-05-14 09:02	36660 33	14	3	40.48	0.95	2	20.52
		39.53	2000 00 11 00.11	2000-05-14 09:23	36660.35	17	<b>y</b>	40.40	0.33	2	33.33
KG0033A01	2000-05-02 17.14	40.65	2000-05-14 09:23	2000-05-14 09:40	36660 36	15	3	43.48	2 83	2	40.65
		40.65	2000 00 11 00.20	2000-05-14 10:02	36660.38	10	<b>U</b>		2.00	۷	40.65
KG0033A01	2000-05-02 17:14	42 65	2000-05-14 10:02	2000-05-14 10:28	36660.39	15	3	43.48	0.83	2	42 65
		42.65		2000-05-14 11:23	36660.43	10			0.00	<u> </u>	42.03
KG0033A01	2000-05-02 17:14	43.62	2000-05-14 11:23	2000-05-14 11:43	36660.45	16		46.48	2.86	24	43.67
		43 62		2000-05-14 13:34	36660 52		•	40,40	2.00	2,7	43.02
KG0033A01	2000-05-02 17:14	44,95	2000-05-14 13:34	2000-05-14 13:51	36660 54	16	3	46.48	1.53	24	44 95
		44,95		2000-05-14 14:12	36660 55	17	5		1.00	2.7	
KG0033A01	2000-05-02 17:14	47.59	2000-05-14 14.12	2000-05-14 15:04	36660 59	16	15	47 98	0.30	24	47 50
		47.59		2000-05-14 15:23	36660.60	10			0.05	۷.۹	
KG0033A01	2000-05-02 17:14	49.76	2000-05-14 15:23	2000-05-14 15:55	36660.62	17	3	50.08	1.22	2.4	40.76
100000/101	2000 00 02 11:14	49.76	2000-00-14 10.20	2000-05-15 08:07	36661 30		<b>3</b>	50.90	1.22	2.4	49.70
KG0033401	2000-05-02 17:14	52 71	2000-05-15 08:07	2000-05-15 08:44	36661.30	10	2	E2 00	4.07		
100000701	2000-00-02 11.14	52.71	2000-03-13 00.07	2000-05-15 08:44	36664.34	10		53.90	1.27	Z.4	52./1
KG0033401	2000-05-02 17-14	54 49	2000-05-15-00:42	2000-00-10 09.12	36664 36	10	-	<b>50 00</b>	0.5		
	2000-00-02 17.14	54.40	2000-00-10 09,12	2000-05-15 09:41	30001.30	19	3	56.98	2.5	2.4	54.48
KC0022401	2000 05 02 17:44	54.40 54.54	2000 05 15 10:25	2000-05-15 10:35	30001.40						
	2000-03-02 17:14	54.54	2000-05-15 10:35	2000-05-15 10:38	36661.40	20	3	58.48	3.94	2.4	54.54
KONDRAN	2000 05 02 47.44	54.54	2000 05 15 10 50	2000-05-15 10:56	36661.41						
KG0033A01	2000-05-02 17:14	50.77	2000-05-15 10:56	2000-05-15 11:17	36661.43	20	3	58.48	1.71	2.4	56.77
KOOCOAAA	2000 05 02 47 41	50.//	0000 05 15 10 55	2000-05-15 13:22	36661.52						
KG0033A01	2000-05-02 17:14	56.9	2000-05-15 13:22	2000-05-15 13:27	36661.52	20	3	58.48	1.58		56.90



Lines in diagram indicate water inflow increase during drilling









/1310241/data/Boreholes between A and G tunnels\Response\KG0023A01\KA3542G1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0023A01\KA3548A1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0023A01\KA3554G1.GRF



seVKG0023A01VKA3554G2.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0023A01\KA3557G1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0023A01\KA3563G1.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0023A01\KA3566G1.GRF




/1310241/data/Boreholes between A and G tunnels\Response\KG0023A01\KA3572G1.GRF





^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0023A01\KA3574G1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0023A01\KA3578G1.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0023A01\KA3579G1.GRF





/1310241/data/Boreholes between A and G tunnels\Response\KG0023A01\KA3590G1.GRF





/1310241/data/Boreholes between A and G tunnels\Response\KG0023A01\KA3593G1.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0023A01\KA3600F1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0023A01\KG0021A1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0023A01\KG0021A1B.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0023A01\KG0048A1.GRF



Lines in diagram indicate water inflow increase during drilling



/1310241/data/Boreholes between A and G tunnels\Response\KG0027A01\KA3510.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0027A01\KA3539G.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0027A01\KA3542G1.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0027A01\KA3542G2.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0027A01\KA3548A1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0027A01\KA3554G1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0027A01\KA3554G2.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0027A01\KA3557G1.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0027A01\KA3563G1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0027A01\KA3566G1.GRF







/1310241/data/Boreholes between A and G tunnels\Response\KG0027A01\KA3573A1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0027A01\KA3574G1.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0027A01\KA3578G1.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0027A01\KA3579G1.GRF





/1310241/data/Boreholes between A and G tunnels\Response\KG0027A01\KA3590G1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0027A01\KA3590G2.GRF





/1310241/data/Boreholes between A and G tunnels\Response\KG0027A01\KA3600F1.GRF


/1310241/data/Boreholes between A and G tunnels\Response\KG0027A01\KG0021A1.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0027A01\KG0021A1B.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0027A01\KG0048A1.GRF



Lines in diagram indicate water inflow increase during drilling



/1310241/data/Boreholes between A and G tunnels\Response\KG0033A01\KA3510.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0033A01\KA3539G.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0033A01\KA3542G1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0033A01\KA3542G2.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0033A01\KA3548A1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0033A01\KA3554G1.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0033A01\KA3554G2.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0033A01\KA3557G1.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0033A01\KA3563G1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0033A01\KA3566G1.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0033A01\KA3566G2.GRF



/1310241/data/Boreholes between A and G tunnels\Response\KG0033A01\KA3572G1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0033A01\KA3573A1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0033A01\KA3574G1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0033A01\KA3578G1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0033A01\KA3579G1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0033A01\KA3584G1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0033A01\KA3590G1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0033A01\KA3590G2.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0033A01\KA3593G1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0033A01\KA3600F.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0033A01\KG0021A1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0033A01\KA3593G1.GRF



^{/1310241/}data/Boreholes between A and G tunnels\Response\KG0033A01\KG0048A1.GRF

Valve opening, flow line 2000-04-03 16:43 2000-04-03 16:43 TRUE Block Scale KA3385A 1 32.05 34.18   Microprobe analyses 2000-04-04 00:00 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A02 9.6 10.35   Stable isotopes 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A02 9.6 10.35   Thin section 2000-04-04 00:00 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A02 9.6 10.35   Rock and mineral sampling 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A02 9.6 10.35   Stable isotopes 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Thin section 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Rock and mineral sampling 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Valve cl
Microprobe analyses 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A02 9.6 10.35   Stable isotopes 2000-04-04 00:00 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A02 9.6 10.35   Thin section 2000-04-04 00:00 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A02 9.6 10.35   Rock and mineral sampling 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A02 9.6 10.35   Stable isotopes 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A02 9.6 10.35   Stable isotopes 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Thin section 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Rock and mineral sampling 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Valve closing, flow li
Stable isotopes 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A02 9.6 10.35   Thin section 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A02 9.6 10.35   Rock and mineral sampling 2000-04-04 00:00 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A02 9.6 10.35   Stable isotopes 2000-04-04 00:00 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Thin section 2000-04-04 00:00 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Rock and mineral sampling 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Valve closing, flow line 2000-04-04 08:17 2000-04-04 08:17 TRUE Block Scale KA3385A 1 32.05 34.18
Thin section 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A02 9.6 10.35   Rock and mineral sampling 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A02 9.6 10.35   Stable isotopes 2000-04-04 00:00 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Thin section 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Rock and mineral sampling 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Valve closing, flow line 2000-04-04 08:17 2000-04-04 08:17 TRUE Block Scale KA3385A 1 32.05 34.18
Rock and mineral sampling 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A02 9.6 10.35   Stable isotopes 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Thin section 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Rock and mineral sampling 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Valve closing, flow line 2000-04-04 08:17 2000-04-04 08:17 TRUE Block Scale KA3385A 1 32.05 34.18
Stable isotopes 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Thin section 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Rock and mineral sampling 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Valve closing, flow line 2000-04-04 08:17 2000-04-04 08:17 TRUE Block Scale KA3385A 1 32.05 34.18
Thin section 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Rock and mineral sampling 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Valve closing, flow line 2000-04-04 08:17 2000-04-04 08:17 TRUE Block Scale KA3385A 1 32.05 34.18
Rock and mineral sampling 2000-04-04 00:00 2000-04-04 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A03 10.35 10.4   Valve closing, flow line 2000-04-04 08:17 2000-04-04 08:17 TRUE Block Scale KA3385A 1 32.05 34.18
Valve closing, flow line 2000-04-04 08:17 2000-04-04 08:17 TRUE Block Scale KA3385A 1 32.05 34.18
Mahar analis di K
valve opening, πow line 2000-04-05 13:36 2000-04-05 13:36 TRUE Block Scale KA3385A 1 32.05 34.18
Valve closing, flow line 2000-04-05 15:43 2000-04-05 15:43 TRUE Block Scale KA3385A 1 32.05 34.18
Thin section 2000-04-06 00:00 2000-04-06 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A02 9.38 9.5
IP and resistivity 2000-04-06 00:00 2000-04-06 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A02 9.38 9.5
Rock and mineral sampling 2000-04-06 00:00 2000-04-06 00:00 LONG TERM DIFFUSION EXP (LTDE) KA3065A02 9.38 9.5
Valve opening, flow line 2000-04-06 08:40 2000-04-06 08:40 TRUE Block Scale KA3385A 1 32.05 34.18
Valve closing, flow line 2000-04-06 09:45 2000-04-06 09:45 TRUE Block Scale KA3385A 1 32.05 34.18
Valve opening, flow line 2000-04-06 14:55 2000-04-06 14:55 TRUE Block Scale KA3385A 1 32.05 34.18
Valve closing, flow line 2000-04-06 15:40 2000-04-06 15:40 TRUE Block Scale KA3385A 1 32.05 34.18
Valve opening, borehole section 2000-04-10 09:20 2000-04-10 09:20 TRUE Block Scale KA3385A 1 32.05 34.18
Water sampling, class 4 2000-04-10 09:27 2000-04-10 10:23 TRUE Block Scale Ki0023B 4 84.75 86.2
Valve opening, borehole section 2000-04-10 09:27 2000-04-10 09:27 TRUE Block Scale Ki0023B 4 84.75 86.2
Water sampling, class 4 2000-04-10 09:30 2000-04-10 09:30 TRUE Block Scale KA3385A 1 32.05 34.18
Valve closing, borehole section 2000-04-10 09:50 2000-04-10 09:50 TRUE Block Scale KA3385A 1 32.05 34.18
Water sampling, class 4 2000-04-10 10:00 2000-04-10 10:30 TRUE Block Scale KI0023B 6 70.95 71.95
Valve closing, borehole section 2000-04-10 10:23 2000-04-10 10:23 TRUE Block Scale KI0023B 4 84.75 86.2
Valve opening, borehole section 2000-04-10 10:25 2000-04-10 10:25 TRUE Block Scale Ki0023B 2 111.25 112.7
Water sampling, class 4 2000-04-10 10:40 2000-04-10 11:22 TRUE Block Scale KI0023B 2 111.25 112.7
Valve opening, borehole section 2000-04-10 10:50 2000-04-10 10:50 TRUE Block Scale KI0025F 4 86 88
Water sampling, class 4 2000-04-10 11:00 2000-04-10 11:20 TRUE Block Scale KI0025F 4 86 88
Valve closing, borehole section 2000-04-10 11:20 2000-04-10 11:20 TRUE Block Scale KI0025F 4 86 88
Valve closing, borehole section 2000-04-10 11:22 2000-04-10 11:22 TRUE Block Scale KI0023B 2 111.25 112.7
Valve opening, borehole section 2000-04-10 15:40 2000-04-10 15:40 TRUE Block Scale KA2563A 1 242 362.43
Valve opening, borehole section 2000-04-11 09:15 2000-04-11 09:15 TRUE Block Scale KI0025F02 8 51.7 55.1
Valve opening, borehole section 2000-04-11 09:20 2000-04-11 09:20 TRUE Block Scale KI0025F02 5 73.3 77.25
Valve opening, borehole section 2000-04-11 09:20 2000-04-11 09:20 TRUE Block Scale KI0025F02 9 38.5 50.7
Water sampling, class 4 2000-04-11 09:27 2000-04-11 10:10 TRUE Block Scale KA2563A 1 242 362.43
Water sampling, class 4 2000-04-11 09:30 2000-04-11 09:30 TRUE Block Scale KI0025F02 5 73.3 77.25
Water sampling, class 4 2000-04-11 09:35 2000-04-11 09:55 TRUE Block Scale KI0025F02 9 38.5 50.7
Valve closing, borehole section 2000-04-11 09:40 2000-04-11 09:40 TRUE Block Scale KI0025F02 5 73.3 77.25
Valve opening, borehole section 2000-04-11 09:55 2000-04-11 09:55 TRUE Block Scale KA2563A 5 187 190
Valve closing, borehole section 2000-04-11 09:55 2000-04-11 09:55 TRUE Block Scale KI0025F02 9 38.5 50.7
Water sampling, class 4 2000-04-11 10:00 2000-04-11 10:25 TRUE Block Scale KI0025F02 8 51.7 55.1
Water sampling, class 4 2000-04-11 10:15 2000-04-11 10:47 TRUE Block Scale KA2563A 5 187 190
Valve closing, borehole section 2000-04-11 10:18 2000-04-11 10:18 TRUE Block Scale KA2563A 1 242 362.43
Valve closing, borehole section 2000-04-11 10:25 2000-04-11 10:25 TRUE Block Scale KI0025F02 8 51.7 55.1
Valve closing, borehole section 2000-04-11 10:47 2000-04-11 10:47 TRUE Block Scale KA2563A 5 187 190
Valve opening, borehole section 2000-04-12 08:00 2000-04-12 08:00 TRUE Block Scale KI0025F03 7 55.08 58.58
Valve opening, borehole section 2000-04-12 08:00 2000-04-12 08:00 TRUE Block Scale KI0025F03 3 89.08 92.58

Activity	Start Date	Stop Date	Project	ldcode	Section No	Secup (m)	Seclow (m)
Valve opening, borehole section	2000-04-12 08:00	2000-04-12 08:00	TRUE Block Scale	KI0025F03	6	59.58	65.58
Valve opening, borehole section	2000-04-12 08:50	2000-04-12 08:50	TRUE Block Scale	KI0025F03	4	85.08	88.08
Valve opening, borehole section	2000-04-12 09:09	2000-04-12 09:09	TRUE-1	KXTT3	2	10.92	14 42
Water sampling, class 4	2000-04-12 09:19	2000-04-12 09:40	TRUE-1	КХТТЗ	2	10.92	14.42
Valve closing, borehole section	2000-04-12 09:40	2000-04-12 09:40	TRUE-1	KXTT3	2	10.92	14.42
Water sampling, class 4	2000-04-12 10:00	2000-04-12 10:55	TRUE Block Scale	KI0025E03	6	59.58	65 58
Water sampling, class 4	2000-04-12 10:00	2000-04-12 10:45	TRUE Block Scale	KI0025E03	4	85.08	88.08
Water sampling, class 4	2000-04-12 10:00	2000-04-12 10:40	TRUE Block Scale	KI0025F03	3	89.08	92.58
Valve closing, borehole section	2000-04-12 10:40	2000-04-12 10:40	TRUE Block Scale	KI0025E03	3	89.08	92.58
Valve closing, borehole section	2000-04-12 10:45	2000-04-12 10:45	TRUE Block Scale	KI0025F03	4	85.08	88.08
Water sampling, class 4	2000-04-12 10:45	2000-04-12 10:55	TRUE Block Scale	KI0025F03	7	55.08	58 58
Valve closing, borehole section	2000-04-12 10:55	2000-04-12 10:55	TRUE Block Scale	KI0025F03	7	55.08	58 58
Valve closing, borehole section	2000-04-12 10:55	2000-04-12 10:55	TRUE Block Scale	KI0025F03	6	59.58	65.58
Valve opening, flow line	2000-04-12 11:22	2000-04-12 11:22	TRUE Block Scale	KA3385A	1	32.05	34.18
Valve closing, flow line	2000-04-12 16:39	2000-04-12 16:39	TRUE Block Scale	KA3385A	1	32.05	34 18
Ultrasonic wave velocities (lab)	2000-04-13 00:00	2000-04-13 00:00	LONG TERM DIFFUSION EXP (LTDE)	KA3065A03	•	9.2	94
Valve opening, flow line	2000-04-13 09:10	2000-04-13 09:10	TRUE Block Scale	KA3385A	1	32.05	34.18
Valve closing, flow line	2000-04-13 15:09	2000-04-13 15:09	TRUE Block Scale	KA3385A	1	32.05	34 18
Water sampling, class 4	2000-04-14 09:05	2000-04-14 09:30	Microb	KJ0052F01	2	43.7	43.9
Valve opening, borehole section	2000-04-14 09:05	2000-04-14 09:05	Microb	KJ0052F01	2	43.7	43.9
Valve opening, borehole section	2000-04-14 09:05	2000-04-14 09:05	Microb	KJ0052F03	2	9.23	9.43
Water sampling, class 4	2000-04-14 09:12	2000-04-14 09:37	Microb	KJ0052F03	2	9.23	9.43
Valve opening, borehole section	2000-04-14 09:15	2000-04-14 09:15	LOT	HG0038B01	1	1	3.6
Valve opening, borehole section	2000-04-14 09:30	2000-04-14 09:30	Microb	KJ0050F01	2	12.64	12.84
Valve closing, borehole section	2000-04-14 09:30	2000-04-14 09:30	Microb	KJ0052F01	2	43.7	43.9
Valve closing, borehole section	2000-04-14 09:37	2000-04-14 09:37	Microb	KJ0052F03	2	9.23	9.43
Water sampling, class 4	2000-04-14 09:40	2000-04-14 10:00	Microb	KJ0050F01	2	12.64	12.84
Water sampling, class 3	2000-04-14 09:45	2000-04-14 09:55	LOT	HG0038B01	1	1	3.6
Valve closing, borehole section	2000-04-14 09:55	2000-04-14 09:55	LOT	HG0038B01	1	1	3.6
Valve closing, borehole section	2000-04-14 10:00	2000-04-14 10:00	Microb	KJ0050F01	2	12.64	12.84
Core drilling	2000-04-14 14:56	2000-04-27 10:43	PROTOTYPE	KG0023A01		0	33.4
Flush water in	2000-04-14 14:56	2000-04-27 10:43	PROTOTYPE	KG0023A01		0	33.4
Core drilling record	2000-04-14 14:56	2000-04-27 10:43	PROTOTYPE	KG0023A01		0	33.4
Flushing water source	2000-04-18 08:54	2000-04-27 11:10	PROTOTYPE	HD0025A			
Valve opening, flow line	2000-04-18 09:13	2000-04-18 09:13	TRUE Block Scale	KA3385A	1	32.05	34.18
Valve closing, flow line	2000-04-18 11:08	2000-04-18 11:08	TRUE Block Scale	KA3385A	1	32.05	34.18
Valve opening, flow line	2000-04-18 11:16	2000-04-18 11:16	TRUE Block Scale	KA3385A	1	32.05	34.18
Valve closing, flow line	2000-04-18 15:04	2000-04-18 15:04	TRUE Block Scale	KA3385A	1	32.05	34.18
Valve opening, flow line	2000-04-19 08:53	2000-04-19 08:53	TRUE Block Scale	KI0025F03	3	89.08	92.58
Valve closing, flow line	2000-04-19 08:56	2000-04-19 08:56	TRUE Block Scale	KI0025F03	3	89.08	92.58
Valve opening, flow line	2000-04-19 09:03	2000-04-19 09:03	TRUE Block Scale	KI0025F03	6	59.58	65.58
Valve closing, flow line	2000-04-19 09:05	2000-04-19 09:05	TRUE Block Scale	KI0025F03	6	59.58	65.58
valve opening, flow line	2000-04-19 09:26	2000-04-19 09:26	TRUE Block Scale	KI0025F03	7	55.08	58.58
Valve opening, flow line	2000-04-19 10:30	2000-04-19 10:30	TRUE Block Scale	KI0025F02	3	93.35	99.25
valve closing, flow line	2000-04-19 11:15	2000-04-19 11:15	TRUE Block Scale	KI0025F02	3	93.35	99.25
valve closing, flow line	2000-04-19 11:16	2000-04-19 11:16	TRUE Block Scale	KI0025F03	7	55.08	58.58
valve opening, flow line	2000-04-19 12:40	2000-04-19 12:40	TRUE Block Scale	KI0025F03	7	55.08	58.58
valve opening, flow line	2000-04-19 13:15	2000-04-19 13:15	TRUE Block Scale	KI0025F02	3	93.35	99.25

Activity	Start Date	Stop Date	Project	ldcode	Section No	Secup (m)	Seclow (m)
Valve closing, flow line	2000-04-19 13:27	2000-04-19 13:27	TRUE Block Scale	KI0025F02	7	56.1	63
Valve closing, flow line	2000-04-19 13:37	2000-04-19 13:37	TRUE Block Scale	KI0025F03	7	55.08	58.58
Valve opening, flow line	2000-04-19 14:15	2000-04-19 14:15	TRUE Block Scale	KA2563A	1	242	362.43
Valve closing, flow line	2000-04-19 14:29	2000-04-19 14:29	TRUE Block Scale	KA2563A	1	242	362.43
Water injection in borehole	2000-04-25 18:03	2000-05-02 16:00	TRUE Block Scale	KI0025F03	7	55.08	58.58
Water injection in borehole	2000-04-25 18:14	2000-05-02 16:00	TRUE Block Scale	KI0025F03	3	89.08	92.58
Dipole: Test hole	2000-04-26 10:30	2000-06-07 08:15	TRUE Block Scale	KI0025F03	3	89.08	92.58
Dipole: Test hole	2000-04-26 11:40	2000-06-07 08:15	TRUE Block Scale	KI0025F03	7	55.08	58.58
Radially converging Test Hole	2000-04-26 14:40	2000-04-26 14:40	TRUE Block Scale	KI0025F02	3	93.35	99.25
Valve opening, borehole section	2000-04-26 16:05	2000-04-26 16:05	PROTOTYPE	KA2862A			
Radially converging Test Hole	2000-04-26 16:20	2000-04-26 16:20	TRUE Block Scale	KA2563A	1	242	362.43
Rockmechanial sampling	2000-05-02 14:00	2000-05-02 18:10	PROTOTYPE	KA3579G		14.76	15.96
Rockmechanial sampling	2000-05-02 14:00	2000-05-02 18:10	PROTOTYPE	KA3579G		10.63	10.83
Rockmechanial sampling	2000-05-02 14:00	2000-05-02 18:10	PROTOTYPE	KA3579G		14.56	14.76
Rockmechanial sampling	2000-05-02 14:00	2000-05-02 18:10	PROTOTYPE	KA3579G		19.35	19.55
Rockmechanial sampling	2000-05-02 14:00	2000-05-02 18:10	PROTOTYPE	KA3579G		11.15	11.35
Rockmechanial sampling	2000-05-02 14:00	2000-05-02 18:10	PROTOTYPE	KA3579G		9.34	9.52
Borehole coordinate surveying	2000-05-02 14:00	2000-05-02 14:00	PROTOTYPE	KG0023A01		0	33.68
Borehole direction surveying	2000-05-02 14:00	2000-05-02 14:00	PROTOTYPE	KG0023A01		0	6
Water injection in borehole	2000-05-02 16:15	2000-05-30 14:31	TRUE Block Scale	KI0025F03	3	89.08	92.58
Water injection in borehole	2000-05-02 16:15	2000-06-06 15:31	TRUE Block Scale	KI0025F03	7	55.08	58.58
Core drilling record	2000-05-02 17:14	2000-05-15 13:27	PROTOTYPE	KG0033A01		0	56.9
Core drilling	2000-05-02 17:14	2000-05-15 13:27	PROTOTYPE	KG0033A01		0	56.9
Water injection in borehole	2000-05-02 19:45	2000-05-22 14:05	TRUE Block Scale	KI0025F03	6	59.58	65.58
Rockmechanial sampling	2000-05-03 08:40	2000-05-03 10:05	PROTOTYPE	KA3548A01	-	5.5	5.6
Rockmechanial sampling	2000-05-03 08:40	2000-05-03 10:05	PROTOTYPE	KA3548A01		5.38	5.5
Rockmechanial sampling	2000-05-03 08:40	2000-05-03 10:05	PROTOTYPE	KA3548A01		17.37	17.47
Dipole: Test hole	2000-05-03 09:00	2000-05-30 09:12	TRUE Block Scale	KI0025F03	6	59.58	65.58
Rockmechanial sampling	2000-05-03 10:10	2000-05-03 12:00	PROTOTYPE	KA3573A		6.88	7
Rockmechanial sampling	2000-05-03 10:10	2000-05-03 12:00	PROTOTYPE	KA3573A		11.8	11.86
Rockmechanial sampling	2000-05-03 10:10	2000-05-03 12:00	PROTOTYPE	KA3573A		21.65	21.79
Rockmechanial sampling	2000-05-03 10:10	2000-05-03 12:00	PROTOTYPE	KA3573A		21.79	22.91
Valve opening, flow line	2000-05-03 12:05	2000-05-03 12:05	TRUE Block Scale	KA3385A	1	32.05	34.18
Valve closing, flow line	2000-05-03 12:05	2000-05-03 12:05	TRUE Block Scale	KA3385A	1	32.05	34.18
Rockmechanial sampling	2000-05-03 13:00	2000-05-03 14:45	PROTOTYPE	KA3600F		41.04	41.19
Rockmechanial sampling	2000-05-03 13:00	2000-05-03 14:45	PROTOTYPE	KA3600F		41.43	41.57
Rockmechanial sampling	2000-05-03 14:45	2000-05-03 16:00	PROTOTYPE	KG0021A01		40.68	40.74
Rockmechanial sampling	2000-05-03 14:45	2000-05-03 16:00	PROTOTYPE	KG0021A01		40.74	40.8
Rockmechanial sampling	2000-05-03 16:20	2000-05-03 18:10	PROTOTYPE	KG0048A01		45.57	45.66
Rockmechanial sampling	2000-05-03 16:20	2000-05-03 18:10	PROTOTYPE	KG0048A01		26.99	27.09
Rockmechanial sampling	2000-05-03 16:20	2000-05-03 18:10	PROTOTYPE	KG0048A01		45.97	46.09
Rockmechanial sampling	2000-05-03 16:20	2000-05-03 18:10	PROTOTYPE	KG0048A01		7 39	7 51
Rockmechanial sampling	2000-05-03 16:20	2000-05-03 18:10	PROTOTYPE	KG0048A01		27.09	27.22
On-site preliminary core mapping	2000-05-04 10:20	2000-05-04 12:40	PROTOTYPE	KA3548G01		2.9	9.3
On-site preliminary core mapping	2000-05-04 12:40	2000-05-04 14:10	PROTOTYPE	KA3552G01		2.7	6.8
On-site preliminary core mapping	2000-05-04 14:10	2000-05-04 15:15	PROTOTYPE	KA3550G01		6.2	8.8
On-site preliminary core mapping						- /	
	2000-05-04 15:30	2000-05-04 17:00	PROTOTYPE	KA3553G01		1.1	8.2

Activity	Start Date	Stop Date	Project	ldcode	Section No	Secup (m)	Seclow (m)
Valve closing, flow line	2000-05-09 16:15	2000-05-10 16:15	TRUE Block Scale	KA3385A	1	32.05	34.18
Valve opening, flow line	2000-05-10 09:34	2000-05-10 09:34	TRUE Block Scale	KA3385A	1	32.05	34.18
Valve closing, flow line	2000-05-10 11:11	2000-05-10 11:11	TRUE Block Scale	KA3385A	1	32.05	34.18
Valve opening, borehole section	2000-05-11 08:15	2000-05-11 08:15	PROTOTYPE	KA3542G02	4	1.3	7.8
Valve closing, borehole section	2000-05-11 10:29	2000-05-11 10:29	PROTOTYPE	KA3542G02	4	1.3	7.8
Borehole direction surveying	2000-05-15 13:40	2000-05-15 13:40	PROTOTYPE	KG0033A01	•	0	6
Borehole coordinate surveying	2000-05-15 13:40	2000-05-15 13:40	PROTOTYPE	KG0033A01		0	56.86
Valve opening, flow line	2000-05-15 15:30	2000-05-15 15:30	TRUE Block Scale	KA3385A	1	32.05	34.18
Slot drilling	2000-05-15 15:30	2000-05-21 19:00	PROTOTYPE	TASA		3537	3537
Valve closing, flow line	2000-05-16 10:20	2000-05-16 10:20	TRUE Block Scale	KA3385A	1	32.05	34.18
Core drilling record	2000-05-16 12:53	2000-05-24 14:03	PROTOTYPE	KG0027A01	·	0	46.72
Core drilling	2000-05-16 12:53	2000-05-24 14:03	PROTOTYPE	KG0027A01		0	46.72
Water sampling, class 3	2000-05-18 14:00	2000-05-18 14:30	LONG TERM DIFFUSION EXP (LTDE)	KA3065A03		•	
Water sampling, class 3	2000-05-19 15:00	2000-05-19 15:30	LONG TERM DIFFUSION EXP (LTDE)	KA3065A03			
Valve opening, circulation line	2000-05-22 15:05	2000-05-22 19:20	TRUE Block Scale	KA3385A	1	32.05	34.18
Water injection in borehole	2000-05-22 16:10	2000-05-24 10:15	TRUE Block Scale	K10025F03	5	66 58	74 08
Dipole: Test hole	2000-05-22 18:40	2000-05-22 18:40	TRUE Block Scale	K10025E03	5	66.58	74.08
Water injection in borehole	2000-05-23 09:35	2000-05-23 14:24	TRUE Block Scale	K10025E03	7	55.08	58 58
Dipole: Test hole	2000-05-23 11:05	2000-05-23 11:05	TRUE Block Scale	K10025E02	6	64	72 9
Instrumentation, removal	2000-05-23 13:38	2000-05-23 14:14	LONG TERM DIFFUSION EXP (I TDF)	KA3065A02	°,	0	69.95
Valve closing, borehole section	2000-05-23 14:14	2000-05-23 14:14	LONG TERM DIFFUSION EXP (LTDF)	KA3065A02		0	69.95
Slot drilling	2000-05-23 16:30	2000-06-05 19:30	PROTOTYPE	TASA		3537	3537
Valve opening, circulation line	2000-05-23 16:43	2000-05-24 08:15	TRUE Block Scale	KA3385A	1	32.05	34.18
Water injection in borehole	2000-05-24 11.05	2000-05-24 15:56	TRUE Block Scale	KI0025E03	7	55.08	58 58
Borehole coordinate surveying	2000-05-24 14:30	2000-05-24 14:30	PROTOTYPE	KG0027A01		0	46 74
Borehole direction surveying	2000-05-24 14:30	2000-05-24 14:30	PROTOTYPE	KG0027A01		0	6
Water injection in borehole	2000-05-24 16:25	2000-05-24 16:25	TRUE Block Scale	KI0025E03	3	89.08	02.58
Valve opening, circulation line	2000-05-25 08:45	2000-05-25 11:30	TRUE Block Scale	KA3385A	1	32.05	34.18
Valve opening, flow line	2000-05-29 16:55	2000-05-29 16:55	TRUE Block Scale	KA3385A	1	32.05	34.18
Ultrasonic wave velocities (lab)	2000-05-30 00:00	2000-05-30 00:00	I ONG TERM DIFFUSION FXP (I TDF)	KA3065A02	•	84	G 3
Ultrasonic wave velocities (lab)	2000-05-30 00:00	2000-05-30 00:00	LONG TERM DIFFUSION EXP (LTDE)	KA3065A02		8.8	8.85
Valve closing, flow line	2000-05-30 08:20	2000-05-30 08:20	TRUE Block Scale	KA3385A	4	32.05	3/ 18
Valve opening, borehole section	2000-05-30 09:20	2000-05-30 09:20	I ONG TERM DIFFUSION FXP (I TDF)	KA3065A02	•	02.00	04.10
Pumping, stop	2000-05-30 09'38	2000-05-30 09:38	TRUE Block Scale	KI0023B	6	70.95	71 95
Pumping, start	2000-05-30 09:39	2000-05-30 09:39	TRUE Block Scale	KI0023B	6	70.95	71.95
Water injection in borehole	2000-05-30 14:49	2000-05-30 15:38	TRUE Block Scale	KI0025E03	3	89.08	02.58
BIPS-logging in borehole	2000-05-30 16:46	2000-05-30 22:30	PROTOTYPE	KG0023401	5	03.00	32.50
BIPS-logging in borehole	2000-05-30 18:29	2000-05-30 22:30	PROTOTYPE	KG0023A01		0.0	37
BIPS-logging in borehole	2000-05-30 19:57	2000-05-30 22:30	PROTOTYPE	KG0033401		2	57
Instrumentation transducer removal	2000-06-01 00:00	2000-06-01 00:00	PROTOTYPE	KA2520C		2	57
Valve opening, borehole section	2000-06-05 13:00	2000-06-05 13:00	Microh	K 10052E01	2	42.7	42.0
Valve opening, borehole section	2000-06-05 13:05	2000-06-05 13:05	Microb	K 10052F01	2	40.7	43.9
Valve opening, borehole section	2000-06-05 13:10	2000-06-05 13:10	Microb	KJ0052F03	2	9.23	9.43
Instrumentation nacker removal	2000-06-05 15:19	2000-06-05 15:19	PROTOTYPE	KA3530C	2	12.04	12.04
Instrumentation, removal	2000-06-05 15:19	2000-06-05 15:19	PROTOTVE	KA3533G			
Instrumentation, installation	2000-06-05 15:50	2000-00-00 10.10	PROTOTYPE	KA3530C			
Instrumentation, macker installation	2000-06-05 15:50	2000-06-05 15:50	PROTOTYPE	KA3530C			
Instrumentation, removal	2000-06-05 16:30	2000-00-00 10.00	PROTOTYPE	KA3554000			
men emerced off, removed	2000-00-00 10.00	2000-00-00 10.08		N40004002			

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Instrumentation, packer removal	2000-06-05 16:39	2000-06-05 16:39	PROTOTYPE	KA3554G02			000104 (111)
Instrumentation, packer installation	2000-06-05 17:50	2000-06-05 17:50	PROTOTYPE	KA3554G02			
Instrumentation, installation	2000-06-05 17:50	2000-06-05 17:50	PROTOTYPE	KA3554G02			
Pressure Build Up Test (BUP)	2000-06-05 19:14	2000-06-06 08:00	PROTOTYPE	KG0027401		7	11
Instrumentation, transducer removal	2000-06-06 00:00	2000-06-06 00:00	PROTOTYPE	K0002/A01		/	11
Slot drilling	2000-06-06 07:00	2000-06-15 17:00	PROTOTYPE	TACA		2527	2560
Instrumentation, packer removal	2000-06-06 10:00	2000-06-06 10:00	PROTOTYPE	KASSEECOS		3537	3360
Instrumentation, removal	2000-06-06 10:00	2000-06-06 10:00	PROTOTYPE	KA3566C02			
Water injection in borehole	2000-06-06 10:15	2000-06-06 13:15	PROTOTYPE	DD0002C01			
Instrumentation, installation	2000-06-06 11:18	2000-06-06 11:18	PROTOTYPE	KA3566C02			
Instrumentation, packer installation	2000-06-06 11:18	2000-06-06 11:18	PROTOTYPE	KA3566C02			
Valve opening, borehole section	2000-06-06 13:36	2000-06-06 13:36	PROTOTYPE	KA3503C	1	0.2	20
Valve closing, borehole section	2000-06-06 13:37	2000-06-06 13:37	PROTOTYPE	KA3502C	1	0.3	30
Valve opening, borehole section	2000-06-06 14:19	2000-06-06 14:19	PROTOTYPE	KA3593G	1	0.3	30
Valve closing, borehole section	2000-06-06 14:20	2000-06-06 14:10	PROTOTYPE	KA3590G02	1	0.3	30.1
Valve opening, borehole section	2000-06-06 14:26	2000-06-06 14:26	PROTOTYPE	KA3590G02	1	0.3	30.1
Valve closing, borehole section	2000-06-06 14:27	2000-06-06 14:20	PROTOTYPE	KA3590G01	1	0.3	30.1
Valve opening, borehole section	2000-06-06 15:53	2000-06-06 15:53	PROTOTYPE	KA3590G01	1	0.3	30.1
Valve closing, borehole section	2000-06-06 15:55	2000-06-06 15:55	PROTOTYPE	KA3504GU1			
Valve opening, borehole section	2000-06-06 16:01	2000-06-06 16:01	PROTOTYPE	KA3564GU1			
Valve closing, borehole section	2000-06-06 16:02	2000-06-06 16:02	PROTOTYPE	KA3579G	4		
Valve opening, borehole section	2000-06-06 16:07	2000-06-06 16:02	PROTOTYPE	KA3579G	1	0.3	22.7
Valve closing, borehole section	2000-06-06 16:09	2000-06-06 16:09	PROTOTYPE	KA3578GUT	1	0.3	12.6
Valve opening, borehole section	2000-06-06 16:19	2000-06-06 16:19	PROTOTYPE	KA3578GU1	1	0.3	12.6
Valve closing, borehole section	2000-06-06 16:20	2000-06-06 16:20	PROTOTYPE	KA3574GU1	1	0.3	12
Valve opening, borehole section	2000-06-06 16:22	2000-06-06 16:22	PROTOTYPE	KA3574G01	4	0.3	12
Valve closing, borehole section	2000-06-06 16:24	2000-06-06 16:22	PROTOTYPE	KA3572GUI	1	0.3	12
Valve opening, borehole section	2000-06-06 16:31	2000-06-06 16:31	PROTOTYPE	KA3572GUT		0.3	12
Valve closing, borehole section	2000-06-06 16:32	2000-06-06 16:32	PROTOTYPE	KA3563G	1	0.3	30
Valve opening, borehole section	2000-06-06 16:37	2000-06-06 16:37	PROTOTYPE	KA3303G	I	0.3	30
Valve closing, borehole section	2000-06-06 16:38	2000-06-06 16:38	PROTOTYPE	KA3557G			
Pressure Build Up Test (BUP)	2000-06-06 19:29	2000-06-07 08:30	PROTOTYPE	KG0033A01		0	10
Instrumentation, transducer removal	2000-06-07 00:00	2000-06-07 00:00	PROTOTYPE	K00033A01		9	13
Instrumentation, transducer removal	2000-06-07 00:00	2000-06-07 00:00	PROTOTYPE	KA3563G			
Instrumentation, transducer removal	2000-06-07 00:00	2000-06-07 00:00	PROTOTYPE	KA3566C01			
Instrumentation, transducer removal	2000-06-07 00:00	2000-06-07 00:00	PROTOTYPE	KA3566C02			
Instrumentation, transducer removal	2000-06-07 00:00	2000-06-07 00:00	PROTOTYPE	KA3572G01			
Instrumentation, transducer removal	2000-06-07 00:00	2000-06-07 00.00	PROTOTYPE	KA3574G01			
Instrumentation, transducer removal	2000-06-07 00:00	2000-06-07 00:00	PROTOTYPE	KA3578C01			
Instrumentation, transducer removal	2000-06-07 00:00	2000-06-07 00:00	PROTOTYPE	KA3579G			
Instrumentation, transducer removal	2000-06-07 00:00	2000-06-07 00:00	PROTOTYPE	KA3584G01			
Instrumentation, transducer removal	2000-06-07 00:00	2000-06-07 00:00	PROTOTYPE	KA3590C01			
Instrumentation, transducer removal	2000-06-07 00:00	2000-06-07 00:00	PROTOTYPE	KA3590C02			
Instrumentation, transducer removal	2000-06-07 00:00	2000-06-07 00:00	PROTOTYPE	KA3593C			
Instant pressure and flow measurements	2000-06-07 09:00	2000-06-07 09:00	PROTOTYPE	KG0027401		0	46 72
Instant pressure and flow measurements	2000-06-07 09:27	2000-06-07 09:27	PROTOTYPE	KG0033A01		7	11
Instrumentation, removal	2000-06-07 09:30	2000-06-07 09:30	PROTOTYPE	KA3544G01			
Instrumentation, packer installation	2000-06-07 09:31	2000-06-07 09:31	PROTOTYPE	KA3544G01			

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Instrumentation, installation	2000-06-07 09:31	2000-06-07 09:31	PROTOTYPE	KA3544G01		• • •	
Instrumentation, removal	2000-06-07 10:00	2000-06-07 10:00	PROTOTYPE	KA3552G01			
Instrumentation, packer installation	2000-06-07 10:01	2000-06-07 10:01	PROTOTYPE	KA3552G01			
Instrumentation, installation	2000-06-07 10:01	2000-06-07 10:01	PROTOTYPE	KA3552G01			
Sampling, dissolved gas	2000-06-07 10:45	2000-06-07 10:50	Microb	KJ0050F01	2	12.64	12.84
Sampling, dissolved gas	2000-06-07 10:45	2000-06-07 10:50	Microb	KJ0052F01	2	43.7	43.9
Sampling, dissolved gas	2000-06-07 10:45	2000-06-07 10:50	Microb	KJ0052F03	2	9.23	9.43
Valve closing, borehole section	2000-06-07 10:50	2000-06-07 10:50	Microb	KJ0050F01	2	12.64	12.84
Valve closing, borehole section	2000-06-07 10:50	2000-06-07 10:50	Microb	KJ0052F01	2	43.7	43.9
Valve closing, borehole section	2000-06-07 10:50	2000-06-07 10:50	Microb	KJ0052F03	2	9.23	9.43
Pressure Build Up Test (BUP)	2000-06-07 11:42	2000-06-07 13:03	PROTOTYPE	KG0033A01	_	34	38
Valve opening, flow line	2000-06-07 13:20	2000-06-07 13:20	TRUE Block Scale	KA3385A	1	32.05	34.18
Instant pressure and flow measurements	2000-06-07 13:53	2000-06-07 13:53	PROTOTYPE	KG0033A01		0	56.9
Instant pressure and flow measurements	2000-06-07 16:30	2000-06-07 16:30	PROTOTYPE	KG0023A01		0	33.4
Instrumentation, removal	2000-06-07 16:38	2000-06-07 16:39	PROTOTYPE	KA3542G02			
Instrumentation, packer removal	2000-06-07 16:38	2000-06-07 16:39	PROTOTYPE	KA3542G02			
Instrumentation, installation	2000-06-07 16:39	2000-06-07 16:39	PROTOTYPE	KA3542G02			
Instrumentation, packer installation	2000-06-07 16:39	2000-06-07 16:39	PROTOTYPE	KA3542G02			
Instant pressure and flow measurements	2000-06-07 16:55	2000-06-07 16:55	PROTOTYPE	KG0023A01		11	15
Valve closing, flow line	2000-06-07 17:20	2000-06-07 17:20	TRUE Block Scale	KA3385A	1	32.05	34.18
Instant pressure and flow measurements	2000-06-07 17:20	2000-06-07 17:20	PROTOTYPE	KG0023A01	-	14	18
Pressure Build Up Test (BUP)	2000-06-07 18:53	2000-06-08 07:59	PROTOTYPE	KG0023A01		24	28
Instrumentation, transducer removal	2000-06-08 00:00	2000-06-08 00:00	PROTOTYPE	KA3542G02			
Instrumentation, transducer removal	2000-06-08 00:00	2000-06-08 00:00	PROTOTYPE	KA3548A01			
Instrumentation, transducer removal	2000-06-08 00:00	2000-06-08 00:00	PROTOTYPE	KA3554G01			
Instrumentation, transducer removal	2000-06-08 00:00	2000-06-08 00:00	PROTOTYPE	KA3573A			
Instrumentation, transducer removal	2000-06-08 00:00	2000-06-08 00:00	PROTOTYPE	KA3600F			
Valve opening, flow line	2000-06-08 09:20	2000-06-08 09:20	TRUE Block Scale	KA3385A	1	32.05	34 18
Valve closing, flow line	2000-06-08 11:07	2000-06-08 11:07	TRUE Block Scale	KA3385A	1	32.05	34.18
Instrumentation, transducer removal	2000-06-09 00:00	2000-06-09 00:00	PROTOTYPE	KA3542G01	•	02.00	01.10
Water injection in borehole	2000-06-14 18:57	2000-06-14 20:40	TRUE Block Scale	KI0025F03	5	66 58	74 08
Water injection in borehole	2000-06-14 22:12	2000-06-15 06:12	TRUE Block Scale	KI0025F03	5	66.58	74.08
Stable isotopes	2000-06-15 00:00	2000-06-15 00:00	TRUE Block Scale	KI0025F02	-	52.1	52.3
Thin section	2000-06-15 00:00	2000-06-15 00:00	TRUE Block Scale	KI0025F02		52.1	52.3
X-ray diffraction	2000-06-15 00:00	2000-06-15 00:00	TRUE Block Scale	KI0025F02		52.1	52.3
Microprobe analyses	2000-06-15 00:00	2000-06-15 00:00	TRUE Block Scale	KI0025F02		52.1	52.3
Rock and mineral sampling	2000-06-15 00:00	2000-06-15 00:00	TRUE Block Scale	KI0025F02		52.1	52.3
Microprobe analyses	2000-06-15 00:00	2000-06-15 00:00	TRUE Block Scale	KI0025F03		56.8	57.2
Stable isotopes	2000-06-15 00:00	2000-06-15 00:00	TRUE Block Scale	KI0025F03		56.8	57.2
X-ray diffraction	2000-06-15 00:00	2000-06-15 00:00	TRUE Block Scale	KI0025F03		56.8	57.2
Thin section	2000-06-15 00:00	2000-06-15 00:00	TRUE Block Scale	KI0025F03		56.8	57.2
Rock and mineral sampling	2000-06-15 00:00	2000-06-15 00:00	TRUE Block Scale	KI0025F03		56.8	57.2
Water injection in borehole	2000-06-15 09:15	2000-06-15 10:10	TRUE Block Scale	KI0025F03	5	66.58	74.08
Water injection in borehole	2000-06-15 11:20	2000-06-19 18:22	TRUE Block Scale	KI0025F03	5	66.58	74.08
Dipole: Test hole	2000-06-15 16:35	2000-06-15 16:35	TRUE Block Scale	KI0023B	6	70.95	71.95
Dipole: Test hole	2000-06-15 16:35	2000-06-15 16:35	TRUE Block Scale	KI0025F03	5	66 58	74.08
Water injection in borehole	2000-06-19 18:31	2000-06-19 18:54	TRUE Block Scale	KI0025F03	5	66 58	74.08
Water injection in borehole	2000-06-19 18:58	2000-06-26 18:15	TRUE Block Scale	KI0025F03	5	66.58	74.08

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Valve opening, flow line	2000-06-20 10:53	2000-06-20 10:53	TRUE Block Scale	KA3385A	1	32.05	34.18
Radially converging Test Hole	2000-06-20 16:40	2000-06-20 16:40	TRUE Block Scale	KI0023B	6	70.95	71.95
Radially converging Test Hole	2000-06-20 16:40	2000-06-20 16:40	TRUE Block Scale	KI0025F02	3	93.35	99.25
Water injection in borehole	2000-06-20 18:05	2000-06-25 17:15	TRUE Block Scale	KI0025F03	7	55.08	58.58
Valve closing, flow line	2000-06-20 18:13	2000-06-20 18:13	TRUE Block Scale	KA3385A	1	32.05	34.18
Slot drilling	2000-06-21 10:30	2000-06-21 17:00	PROTOTYPE	TASA		3537	3560
Valve opening, flow line	2000-06-21 13:13	2000-06-21 13:13	TRUE Block Scale	KA3385A	1	32.05	34.18
Dipole: Test hole	2000-06-21 14:25	2000-06-21 14:25	TRUE Block Scale	KI0023B	6	70.95	71.95
Dipole: Test hole	2000-06-21 14:25	2000-06-21 14:25	TRUE Block Scale	KI0025F03	7	55.08	58,58
Valve closing, flow line	2000-06-21 18:20	2000-06-21 18:20	TRUE Block Scale	KA3385A	1	32.05	34.18
Valve opening, flow line	2000-06-22 08:30	2000-06-22 08:30	TRUE Block Scale	KA3385A	1	32.05	34.18
Valve closing, flow line	2000-06-22 10:00	2000-06-22 10:00	TRUE Block Scale	KA3385A	1	32.05	34.18
Valve opening, borehole section	2000-06-26 15:00	2000-06-26 15:00	Microb	KJ0044F01			
Valve opening, borehole section	2000-06-26 15:00	2000-06-26 15:00	Microb	KJ0052F02			
Valve opening, borehole section	2000-06-26 15:00	2000-06-26 15:00	Microb	KJ0052F03	2	9.23	9.43
Water injection in borehole	2000-06-26 16:40	2000-07-04 14:30	TRUE Block Scale	KI0025F03	7	55.08	58.58
Valve opening, flow line	2000-06-26 18:02	2000-06-26 18:02	TRUE Block Scale	KA3385A	1	32.05	34.18
Water injection in borehole	2000-06-26 18:55	2000-06-29 14:39	TRUE Block Scale	KI0025F03	5	66.58	74.08
Valve closing, flow line	2000-06-26 19:43	2000-06-29 19:43	TRUE Block Scale	KA3385A	1	32.05	34.18
Valve opening, flow line	2000-06-27 18:17	2000-06-27 18:17	TRUE Block Scale	KA3385A	1	32.05	34.18
Valve closing, flow line	2000-06-27 19:13	2000-06-27 19:13	TRUE Block Scale	KA3385A	1	32.05	34.18
Valve opening, flow line	2000-06-28 08:40	2000-06-28 08:40	TRUE Block Scale	KA3385A	1	32.05	34.18
Sampling, dissolved gas	2000-06-28 12:50	2000-06-28 12:50	Microb	KJ0044F01			
Sampling, dissolved gas	2000-06-28 12:50	2000-06-28 12:50	Microb	KJ0052F02			
Sampling, dissolved gas	2000-06-28 12:50	2000-06-28 12:50	Microb	KJ0052F03	2	9.23	9.43
Valve closing, borehole section	2000-06-28 13:00	2000-06-28 13:00	Microb	KJ0044F01			
Valve closing, borehole section	2000-06-28 13:00	2000-06-28 13:00	Microb	KJ0052F02			
Valve closing, borehole section	2000-06-28 13:00	2000-06-28 13:00	Microb	KJ0052F03	2	9.23	9.43
Valve closing, flow line	2000-06-28 19:36	2000-06-28 19:36	TRUE Block Scale	KA3385A	1	32.05	34.18
Valve opening, flow line	2000-06-29 13:14	2000-06-29 13:14	TRUE Block Scale	KA3385A	1	32.05	34.18
Water injection in borehole	2000-06-29 14:48	2000-07-04 14:30	TRUE Block Scale	KI0025F03	5	66.58	74.08
Valve closing, flow line	2000-06-29 15:32	2000-06-29 15:32	TRUE Block Scale	KA3385A	1	32.05	34.18
### APPENDIX 4 – Pressure build-up test in borehole KG0023A01, section 24.0 - 28.0 m (Test #4)

Date:	00-06-07	Field Crew: I	B. Gentzschein
Borehole length:	33.40 m	Borehole dia	meter: 76 mm
Packer inflation:	000607 17:48	Valve closed	: 000607 17:55
Valve opened:	000607 18:23.08	Valve closed	: 000607 18:53.00
End of recovery:	000608 07:59		
Flowing time:	29.9 min	Tot. Pr. Build	l-up time: 786 min
Pressure just befo	re opening the valve	e (Po, kPa) :	2009.0
Pressure just befor	re closing the valve	(Pp, kPa) :	19.0
Pressure at the end	d of the recovery	(Pf, kPa): 2	2274.9

The pressure transducer used was positioned 0.3 m above the tunnel floor. The height of the water flow outlet was c. 2.5 m above the tunnel floor.

Table	Manually measured flow rates. Pressure bu KG0023A01, 24.0 - 28.0 m.	uild-up test in
Time	Flow rate (l/min) Comment	
18:24.20	0.43	
18:25.30	0.40	
18:30.30	0.40	
18:35	0.39	
18:40	0.39	
18:46	0.39	
18:51	0.39	

During the test the borehole was closed towards tunnel A.

The measured flow rate of the entire borehole was 0.61 l/min at 16:30

The measured flow rate of the borehole excluding the test tool was 0.24 l/min at 18:28. The same flow rate was measured at 11:31

PBT; KG0023A01, 24 - 28 m







sp (KPa)

dte (min)



PBT; KG0023A01, 24 - 28 m recovery 2000-06-07 18:53:00



PBT; KG0023A01, 24 - 28 m recovery 2000-06-07 18:53:00

# APPENDIX 5 – Pressure build-up test in borehole KG0027A01, section 7.0 - 11.0 m (Test #1)

Date:	00-06 -05	Field Crew	: B.	Gentzschein
Borehole length:	46.72 m	Borehole di	iam	eter: 76 mm
Packer inflation:	000605 17:14	Valve close	ed:	000605 17:26
Valve opened:	000605 18:44.00	Valve close	ed:	000605 19:14.00
End of recovery:	000606 07:49			
Flowing time :	30.0 min	Tot. Pr. Bu	ild-	up time: 755 min
Pressure just befor	e opening the valve	e (Po, KPa)	:	1075.8
Pressure just befor	re closing the valve	(Pp, KPa)	:	0.5
Pressure at the end	l of the recovery	(Pf, KPa)	:	1331.7

The pressure transducer used was positioned 0.15m above the tunnel floor. The height of the water flow outlet was c. 2.5 m above the tunnel floor.

Time	Flow	rate	(l/min)
18:44.15	54		
18:45:10	27		
18:47	14.1		
18:49	9.96		
18:52	7.70		
18:58	6.70		
19:06.30	5.56		
19:11.30	5.50		

### TableManually measured flow rates, Pressure build-up test in<br/>KG0027A01, 7.0 - 11.0 m.

During the test the borehole was open towards both tunnel G and tunnel A.

PBT; KG0027A01, 7.0 - 11.0 m





PBT; KG0027A01, 7.0 - 11.0 m recovery 2000-06-05 19:14:00



PBT; KG0027A01, 7.0 - 11.0 m recovery 2000-06-05 19:14:00



#### PBT; KG0027A01, 7.0 - 11.0 m recovery 2000-06-05 19:14:00

# APPENDIX 6 – Pressure build-up test in borehole KG0033A01, section 9.0 - 13.0 m (Test #2)

Date:	00-06-06	Field Crev	w: B.	Gentzschein
Borehole length:	56.90 m	Borehole	diame	ter: 76 mm
Packer inflation:	000606 17:39	Valve clos	sed:	000606 18:40
Valve opened:	000606 19:07.59	Valve clos	sed:	000606 19:29.00
End of recovery:	000607 08:30			
Flowing time :	21.0 min	Tot. Pr. B	uild-u	p time: 781 min
Pressure just befor	re opening the valve	e (Po, KPa)	:	41.0
Pressure just befor	re closing the valve	(Pp, KPa)	:	9.9
Pressure at the end	d of the recovery	(Pf, KPa)	:	42.7

The pressure transducer used was positioned 0.1 m above the tunnel floor. The height of the water flow outlet was c. 2.5 m above the tunnel floor.

Table	Manually measured flow rates, Pressure build-up test in
	KG0033A01, 9.0 - 13.0 m.

Time	Flow rate (l/min)	
19:07	0.048	
19:15	0.047	
19:18	0.049	
19:22	0.0475	
19:26	0.049	

During the test the borehole was open towards both tunnel G and tunnel A.



PBT; KG0033A01, 9.0-13.0 m

33 KG0023A recovery 2000-06-06 19:29:00



Prototype Repository, Hydraulic tests in holes between tunnel G & tunnel A/ bgz ~ 00-07-06



PBT, Recovery; KG0033A01, 9.0-13.0 m

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### APPENDIX 7 – Pressure build-up test in borehole KG0033A01, section 34.0 - 38.0 m (Test #3)

Date:	00-06-07	Field Crew: B	. Gentzschein
Borehole length:	56.90 m	Borehole diam	neter: 76 mm
Packer inflation:	000607 10:55	Valve closed:	000607 11:02
Valve opened:	000607 11:19.59	Valve closed:	000607 11:42.01
End of recovery:	000607 13:03		
Flowing time :	22.0 min	Tot. Pr. Build-	up time: 81 min
Pressure just befor	e opening the valve	(Po, KPa) :	2292.1
Pressure just befor	re closing the valve	(Pp, KPa) :	25.7
Pressure at the end	l of the recovery	(Pf, KPa) :	2514.2

The pressure transducer used was positioned 0.1 m above the tunnel floor. The height of the water flow outlet was c. 2.5 m above the tunnel floor.

Table	Manually measured flow rates, Pressure build-up test ir KG0033A01, 34.0 - 38.0 m.
Time	Flow rate (l/min)
11:21 11:23	0.865 0.720
11:27 11:31 11:38	0.66 0.63 0.615
11:38	0.615

During the test the borehole was closed towards tunnel A.

The measured flow rate of the entire borehole was 0.98 l/min at 10:50

The measured flow rate of the borehole excluding the test tool was 0.41 l/min at 11:17. The same flow rate was measured at 11:31



PBT; KG0033A01, 34 - 38 m

PBT, Recovery; KG0033A01, 34 - 38 m



PBT, Recovery; KG0033A01, 34 - 38 m



sp (KPa)



PBT, Recovery; KG0033A01, 34 - 38 m

# APPENDIX 8 – Pressure responses from pressure build-up tests in lead-through boreholes

This appendix includes the following information:

• Pressure registration in observation sections during the period 2000-06-05 00:00 – 2000-06-08 12:00 (Pressure build-up tests period)

















Prototype Repository, Hydraulic tests in holes between tunnel G & tunnel A/ bgz - 00-07-06





Prototype Repository, Hydraulic tests in holes between tunnel G & tunnel A/ bgz - 00-07-06


Prototype Repository, Hydraulic tests in holes between tunnel G & tunnel A/ bgz - 00-07-06

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Prototype Repository, Hydraulic tests in holes between tunnel G & tunnel A/ bgz - 00-07-06







Prototype Repository, Hydraulic tests in holes between tunnel G & tunnel A/ bgz - 00-07-06

## APPENDIX 9 – Pressure responses from blasting work in Prototype Repository Tunnel.

In the preparations for the concrete plug construction, blasting of niches were made at two chainage locations in the Prototype Repository Tunnel, namely 3537 and 3560 meter. Pressure registrations were only possible to make in KA3510A, KG0021A01 and KG0048A01 during the blasting period, 2000-08-24 – 2000-09-05.

This appendix includes the following information:

- Pressure registration in observation sections during the period 2000-08-24 00:00 2000-09-01 00:00 (Blasting work at chainage 3537 in Prototype Repository Tunnel)
- Pressure registration in observation sections during the period 2000-08-31 00:00 2000-09-05 24:00 (Blasting work at chainage 3560 in Prototype Repository Tunnel)
- Activity log of Drill & Blast work in Prototype Repository Tunnel together with used amount of explosives in each round



1310241/DATA/DEPOSITIONHOLES_CHARACTERISATION/BLASTING RSEPONSE/21_KA3510A.GRF



1310241/DATA/DEPOSITIONHOLES_CHARACTERISATION/BLASTING RSEPONSE/21_KG0021A01.GRF



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1310241/DATA/DEPOSITIONHOLES_CHARACTERISATION/BLASTING RSEPONSE/21_KG0021A1B.GRF



^{1310241/}DATA/DEPOSITIONHOLES_CHARACTERISATION/BLASTING RSEPONSE/21_KG0048A01.GRF



^{1310241/}DATA/DEPOSITIONHOLES_CHARACTERISATION/BLASTING RSEPONSE/23_KA3510A.GRF



1310241/DATA/DEPOSITIONHOLES_CHARACTERISATION/BLASTING RSEPONSE/23_KG0021A01.GRF



1310241/DATA/DEPOSITIONHOLES_CHARACTERISATION/BLASTING RSEPONSE/23_KG0048A01.GRF

## SICADA - Activity Log

Total each	charse in blashing round
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Activity	Start Date	Stop Date		Project	Idcode	Section No	Secup (m)	Seclow (m)	Total salvan	laddning i <b>4</b> g	i	
D&B - Round	2000-08-24 13	:15 2000-08-24	13:15	PROTOTYPE	TASA		3537.00	3537.00	200ĝ	• -		
D&B - Round	2000-08-25 09	:45 2000-08-25	09:45	PROTOTYPE	TASA		3537.00	3537.00	426g			
D&B - Round	2000-08-25 14	:35 2000-08-25	14:35	PROTOTYPE	TASA		3537.00	3537.00	451g			
D&B - Round	2000-08-28 09:	:15 2000-08-28	09:15	PROTOTYPE	TASA		3537.00	3537.00	208g			
D&B - Round	2000-08-28 14	:15 2000-08-28	14:15	PROTOTYPE	TASA		3537.00	3537.00	208g			
D&B - Round	2000-08-29 09:	:10 2000-08-29	09:10	PROTOTYPE	TASA		3537.00	3537.00	198g			
D&B - Round	2000-08-29 13	:20 2000-08-29	13:20	PROTOTYPE	TASA		3537.00	3537.00	250g			
D&B - Round	2000-08-30 13:	:15 2000-08-30	13:15	PROTOTYPE	TASA		3537.00	3537.00	200g			
D&B - Round	2000-08-30 13	:45 2000-08-30	13:45	PROTOTYPE	TASA		3537.00	3537.00	40g			
D&B - Round	2000-08-30 15:	:45 2000-08-30	15:45	PROTOTYPE	TASA		3537.00	3537.00	150g			
D&B - Round	2000-08-31 13	:10 2000-08-31	13:10	PROTOTYPE	TASA		3537.00	3537.00	548g			
D&B - Round	2000-08-31 15:	:10 2000-08-31	15:10	PROTOTYPE	TĄSA		3560.00	3560.00	462g			
D&B - Round	2000-09-01 13:	:10 2000-09-01	13:10	PROTOTYPE	TASA		3560.00	3560.00	648g			
D&B - Round	2000-09-02 08:	:35 2000-09-02	08:35	PROTOTYPE	TASA		3560.00	3560.00	848g			
D&B - Round	2000-09-02 14:	:05 2000-09-02	14:05	PROTOTYPE	TASA		3560.00	3560.00	1.048g			
D&B - Round	2000-09-02 14:	:20 2000-09-02	14:20	PROTOTYPE	TASA		3560.00	3560.00	304g			
D&B - Round	2000-09-03 08:	:35 2000-09-03	08:35	PROTOTYPE	TASA		3560.00	3560.00	448g			
D&B - Round	2000-09-03 13:	:55 2000-09-03	13 <b>:</b> 55	PROTOTYPE	TASA		3560.00	3560.00	112g			
D&B - Round	2000-09-04 19	:15 2000-09-04	19:15	PROTOTYPE	TASA		3560.00	3560.00	140g			
D&B - Round	2000-09-04 19:	:40 2000-09-04	19:40	PROTOTYPE	TASA		3560.00	3560.00	240g			
D&B - Round	2000-09-05 09:	:45 2000-09-05	09:45	PROTOTYPE	TASA		3560.00	3560.00	288g			
D&B - Round	2000-09-05 15:	:05 2000-09-05	15:05	PROTOTYPE	KG0023A01				240g			
D&B - Round	2000-09-05 16	:15 2000-09-05	16:15	PROTOTYPE	KG0023A01				140g			
D&B - Round	2000-09-05 18:	:15 2000-09-05	18:15	PROTOTYPE	KG0023A01				196g			
D&B - Round	2000-09-05 18:	:40 2000-09-05	18:40	PROTOTYPE	KG0023A01				196g			