



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Water Level Data

Page 1 of 1

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW2

Test Well: MW2

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Water level at t=0 [m]: 7,85

Static Water Level [m]: 4,01

Water level change at t=0 [m]: 3,84

	Time [min]	Water Level [m]	WL Change [m]
1	0	7,85	3,84
2	1	7,65	3,64
3	2	7,60	3,59
4	3	7,55	3,54
5	4	7,50	3,49
6	6	7,395	3,385
7	8	7,29	3,28
8	10	7,19	3,18
9	13	7,04	3,03
10	17	6,86	2,85
11	21	6,675	2,665
12	25	6,605	2,595
13	30	6,36	2,35
14	40	6,065	2,055
15	50	5,807	1,797
16	60	5,575	1,565
17	80	5,25	1,24
18	100	4,99	0,98
19	120	4,71	0,70



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW2

Test Well: MW2

Test Conducted by: JIG & ISA

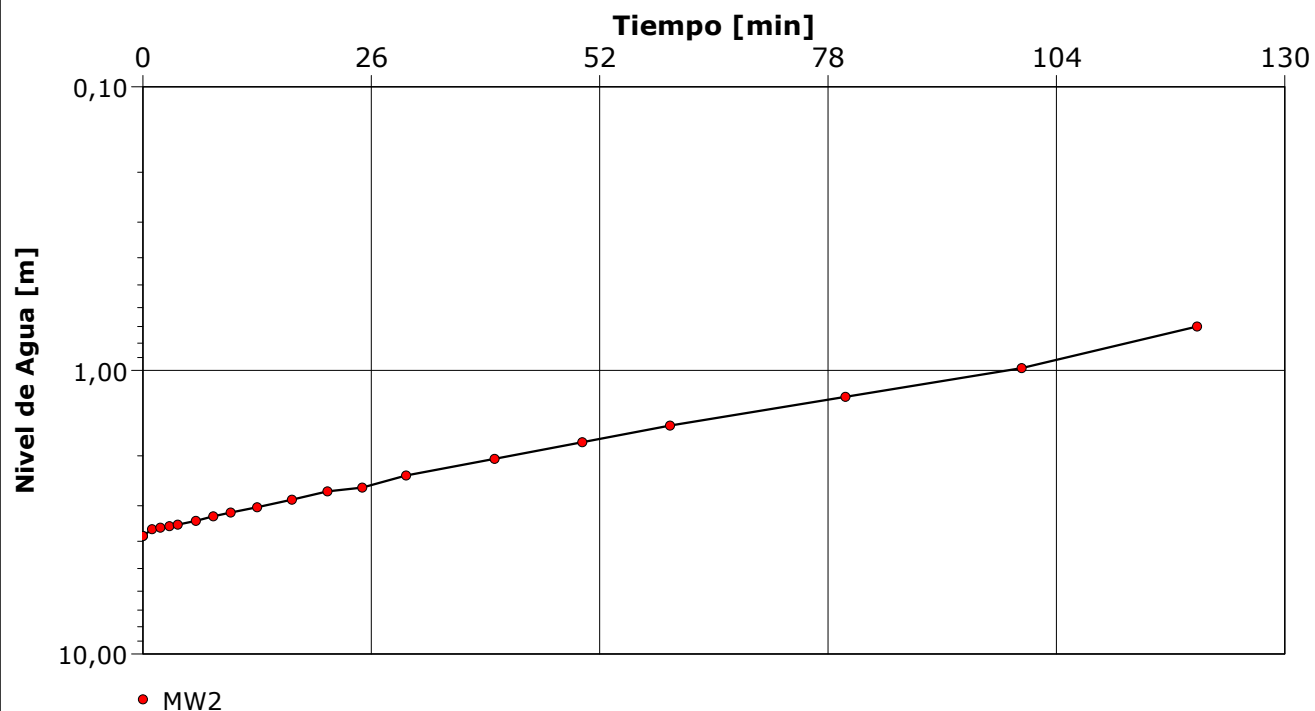
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Tiempo - Nivel Agua

Analysis Date: 21/09/2020

Aquifer Thickness: 2,90 m





ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW2

Test Well: MW2

Test Conducted by: JIG & ISA

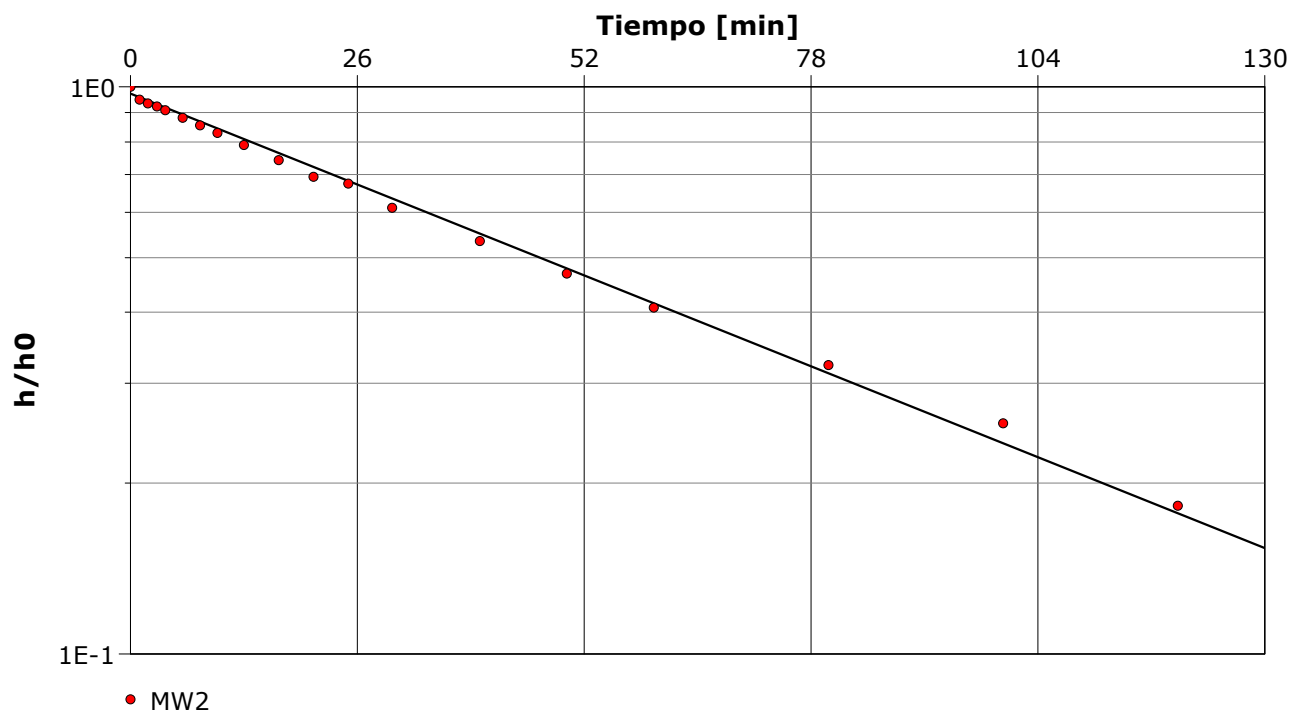
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Hvorslev

Analysis Date: 21/09/2020

Aquifer Thickness: 2,90 m



Calculation using Hvorslev

Observation Well

Hydraulic Conductivity
[m/d]

MW2

$5,86 \times 10^{-3}$

Recuperaciones de nivel muy lineales y constantes a lo largo de las 2 horas de medidas.

En este piezómetro se captan aguas subterráneas correspondientes al nivel somero del acuífero.



Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW2

Test Well: MW2

Test Conducted by: JIG & ISA

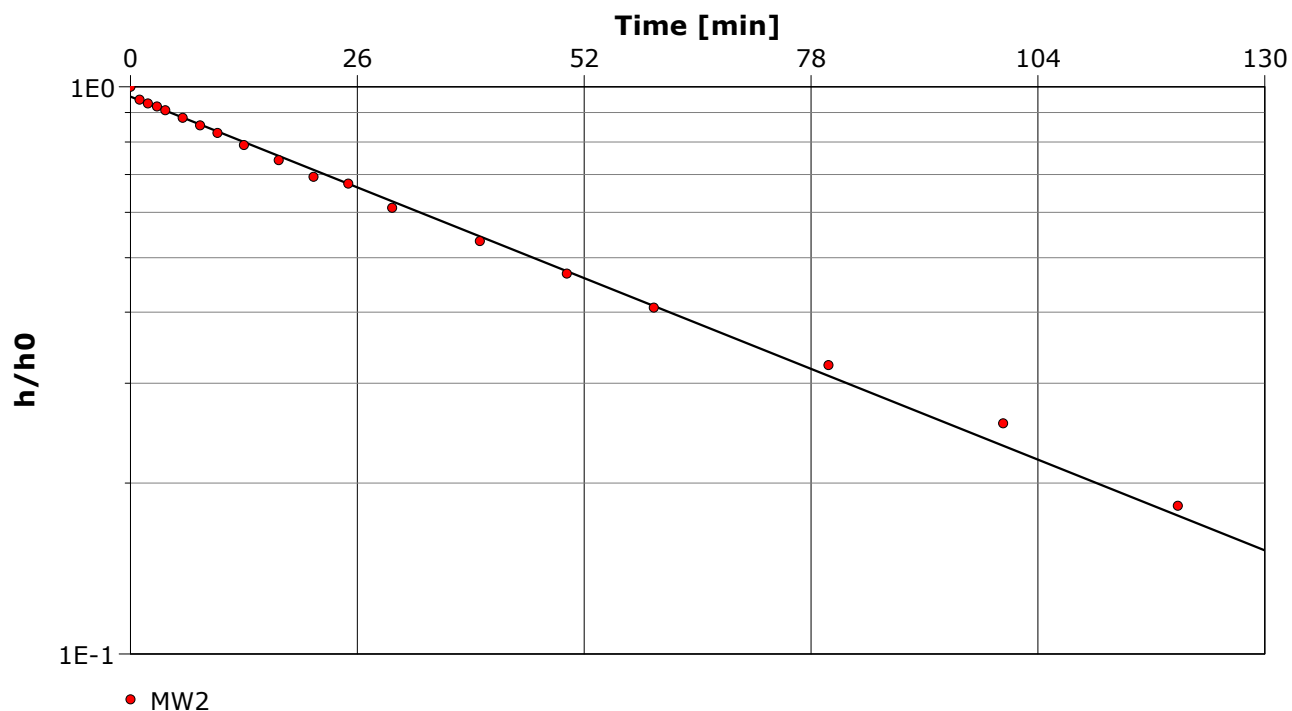
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Bouwer & Rice

Analysis Date: 21/09/2020

Aquifer Thickness: 2,90 m



Calculation using Bouwer & Rice

Observation Well

Hydraulic Conductivity
[m/d]

MW2

$4,60 \times 10^{-3}$

Recuperaciones de nivel muy lineales y constantes a lo largo de las 2 horas de medidas.

En este piezómetro se captan aguas subterráneas correspondientes al nivel somero del acuífero.



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW2

Test Well: MW2

Test Conducted by: JIG & ISA

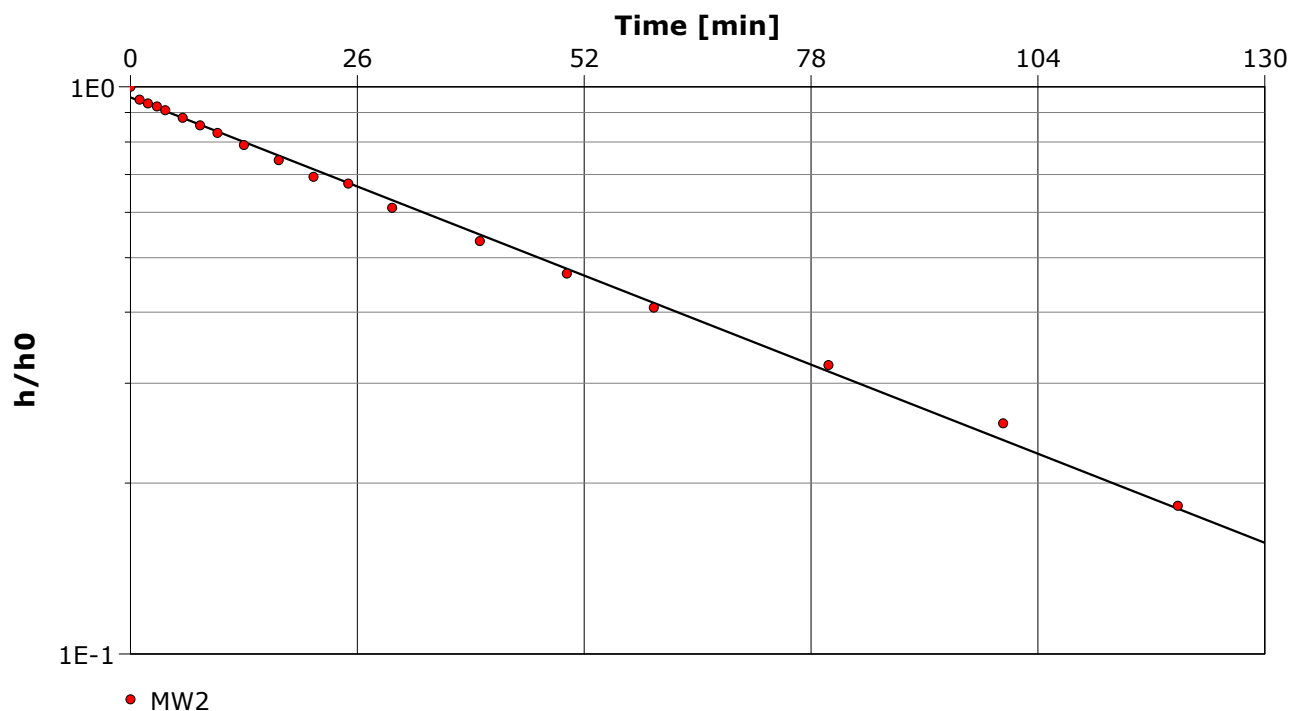
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Dagan

Analysis Date: 21/09/2020

Aquifer Thickness: 2,90 m



Calculation using Dagan

Observation Well

Hydraulic Conductivity
[m/d]

MW2

$1,85 \times 10^{-2}$

Recuperaciones de nivel muy lineales y constantes a lo largo de las 2 horas de medidas.

En este piezómetro se captan aguas subterráneas correspondientes al nivel somero del acuífero.



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW2

Test Well: MW2

Test Conducted by: JIG & ISA

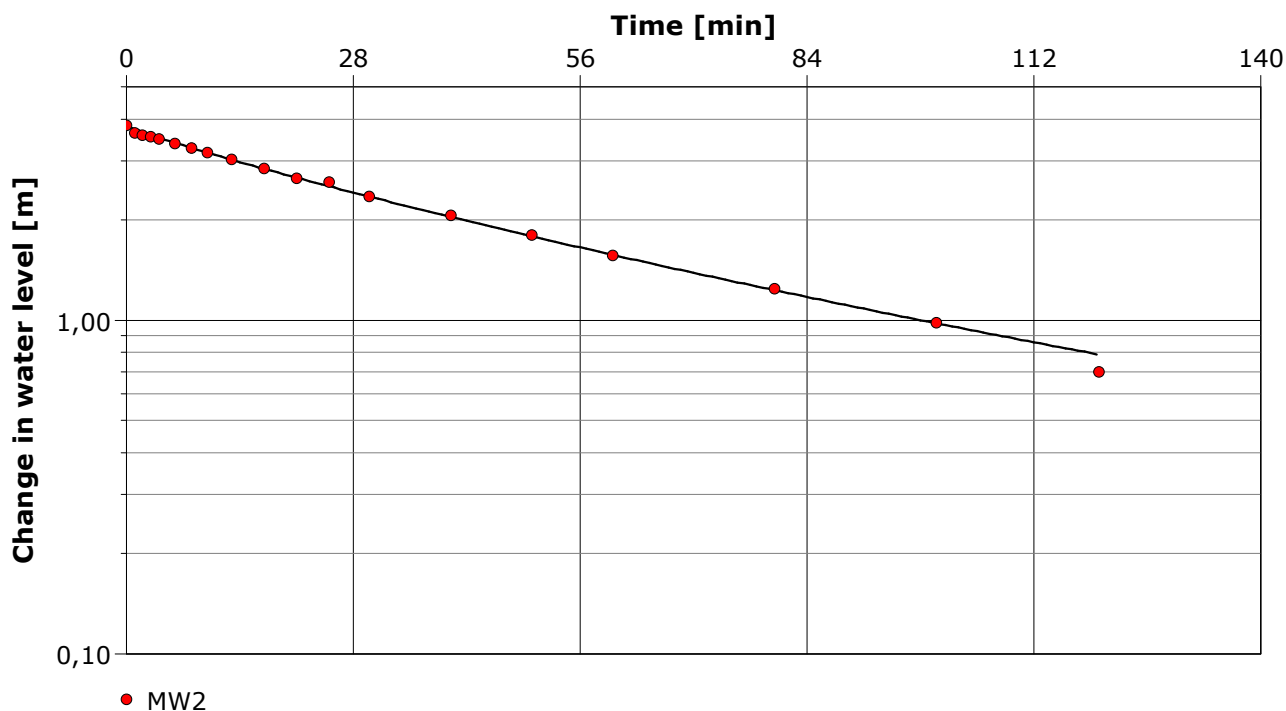
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Cooper-Bredehoeft-Papadopoulos

Analysis Date: 21/09/2020

Aquifer Thickness: 2,90 m



Calculation using Cooper-Bredehoeft-Papadopoulos

Observation Well	Transmissivity [m ² /d]	Hydraulic Conductivity [m/d]	Well-bore storage coefficient	
MW2	$3,47 \times 10^{-2}$	$1,20 \times 10^{-2}$	$1,20 \times 10^{-4}$	



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Analyses Report

Project: Ampliación Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW2

Test Well: MW2

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Aquifer Thickness: 2,90 m

	Analysis Name	Analysis Performed	Analysis Date	Method name	Well	T [m ² /d]	K [m/d]	S
1	Hvorslev	JIG & ISA	21/09/2020	Hvorslev	MW2		$5,86 \times 10^{-3}$	
2	Bouwer & Rice	JIG & ISA	21/09/2020	Bouwer & Rice	MW2		$4,60 \times 10^{-3}$	
3	Dagan	JIG & ISA	21/09/2020	Dagan	MW2		$1,85 \times 10^{-2}$	
4	Cooper-Bredehoeft	JIG & ISA	21/09/2020	Cooper-Bredehoeft	MW2	$3,47 \times 10^{-2}$	$1,20 \times 10^{-2}$	$1,20 \times 10^{-4}$



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Water Level Data

Page 1 of 1

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW3

Test Well: MW3

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Water level at t=0 [m]: 8,10

Static Water Level [m]: 7,80

Water level change at t=0 [m]: 0,30

	Time [min]	Water Level [m]	WL Change [m]
1	0	8,10	0,30
2	0,5	8,04	0,24
3	1	7,95	0,15
4	1,5	7,912	0,112
5	2	7,897	0,097
6	2,5	7,89	0,09
7	3	7,878	0,078
8	4	7,868	0,068
9	5	7,86	0,06
10	7	7,85	0,05
11	9	7,845	0,045
12	12	7,84	0,04
13	15	7,835	0,035



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW3

Test Well: MW3

Test Conducted by: JIG & ISA

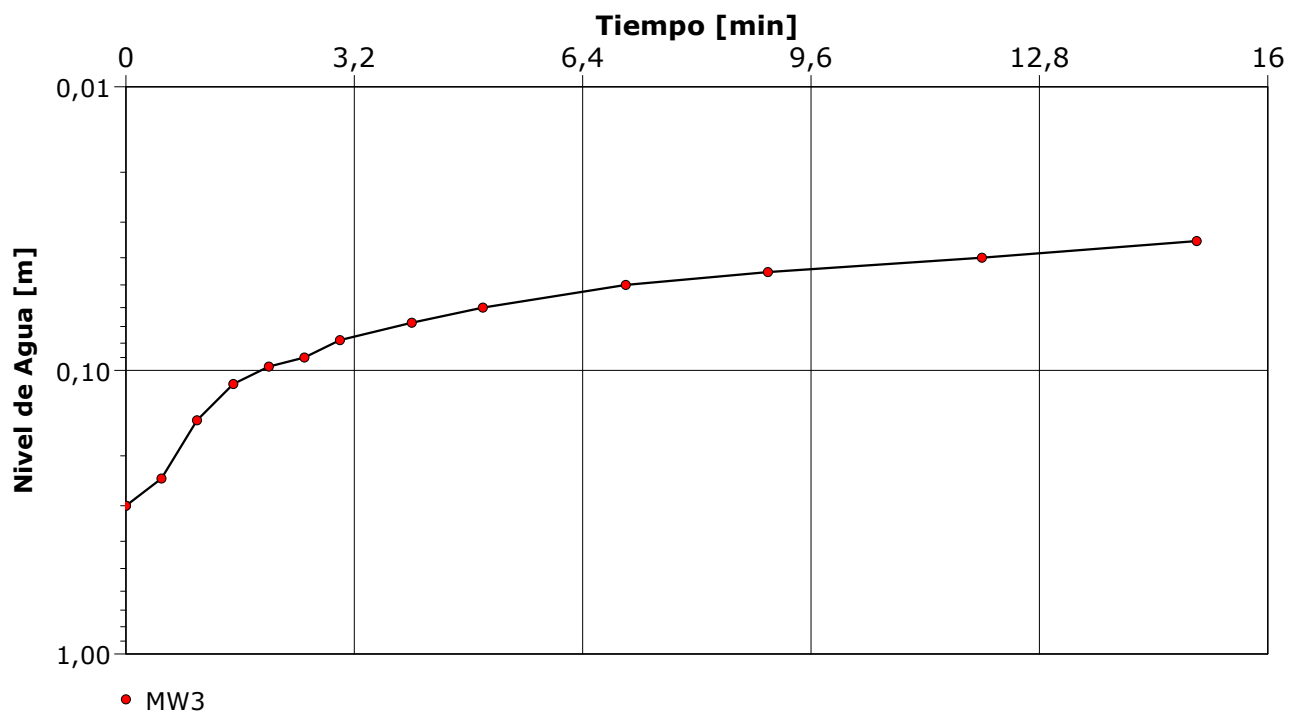
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Tiempo - Nivel Agua

Analysis Date: 21/09/2020

Aquifer Thickness: 1,70 m





ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliación Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW3

Test Well: MW3

Test Conducted by: JIG & ISA

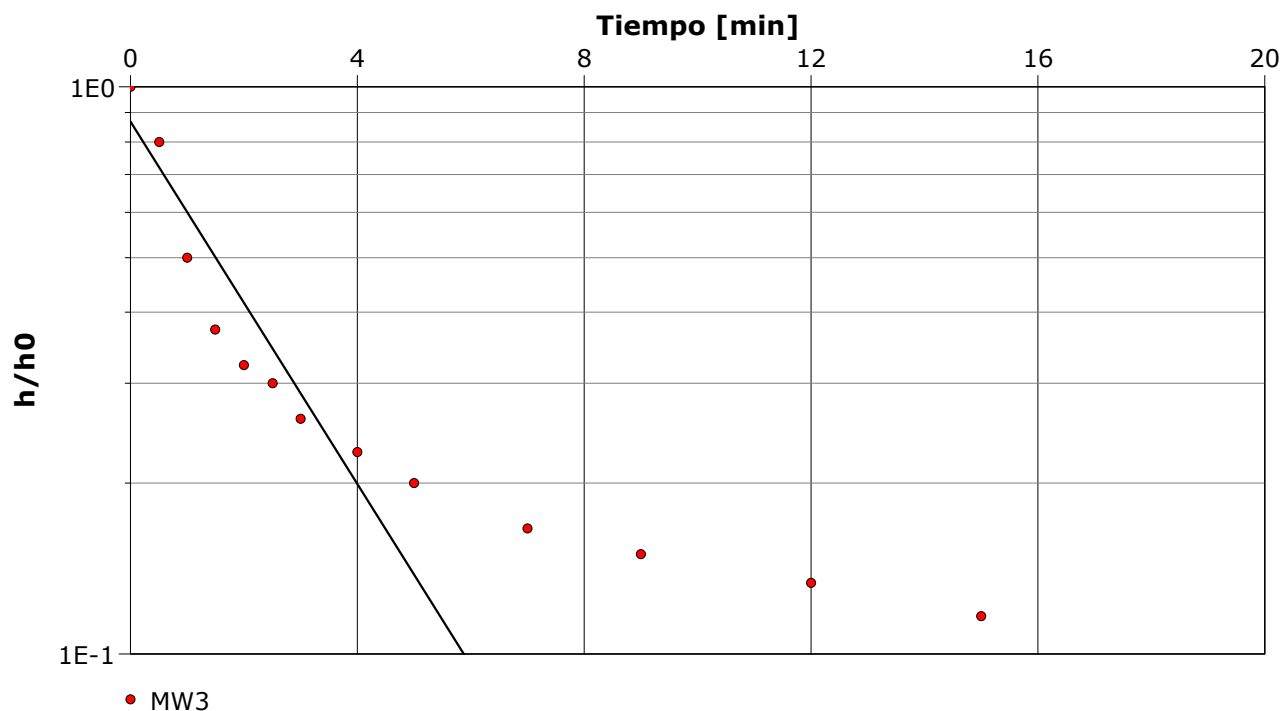
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Hvorslev

Analysis Date: 21/09/2020

Aquifer Thickness: 1,70 m



Calculation using Hvorslev

Observation Well

Hydraulic Conductivity
[m/d]

MW3

$2,66 \times 10^{-1}$

Se ajustan a la recta los primeros 5 primeros minutos de recuperación, ya que se trata del tramo que parece responder al bombeo aplicado de manera inmediata, con recuperaciones superiores al 85 % de los niveles piezométricos iniciales.



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliación Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW3

Test Well: MW3

Test Conducted by: JIG & ISA

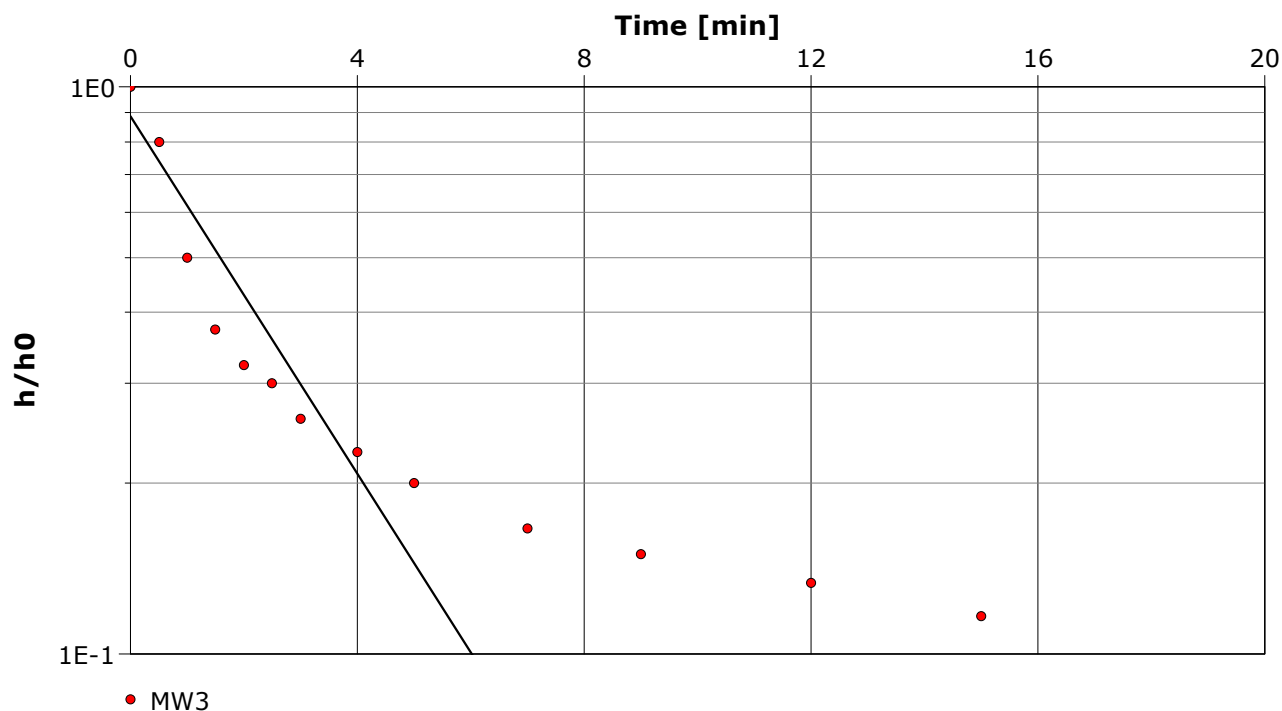
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Bouwer & Rice

Analysis Date: 21/09/2020

Aquifer Thickness: 1,70 m



Calculation using Bouwer & Rice

Observation Well

Hydraulic Conductivity
[m/d]

MW3

$2,03 \times 10^{-1}$

Se ajustan a la recta los primeros 5 primeros minutos de recuperación, ya que se trata del tramo que parece responder al bombeo aplicado de manera inmediata, con recuperaciones superiores al 85 % de los niveles piezométricos iniciales.



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliación Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW3

Test Well: MW3

Test Conducted by: JIG & ISA

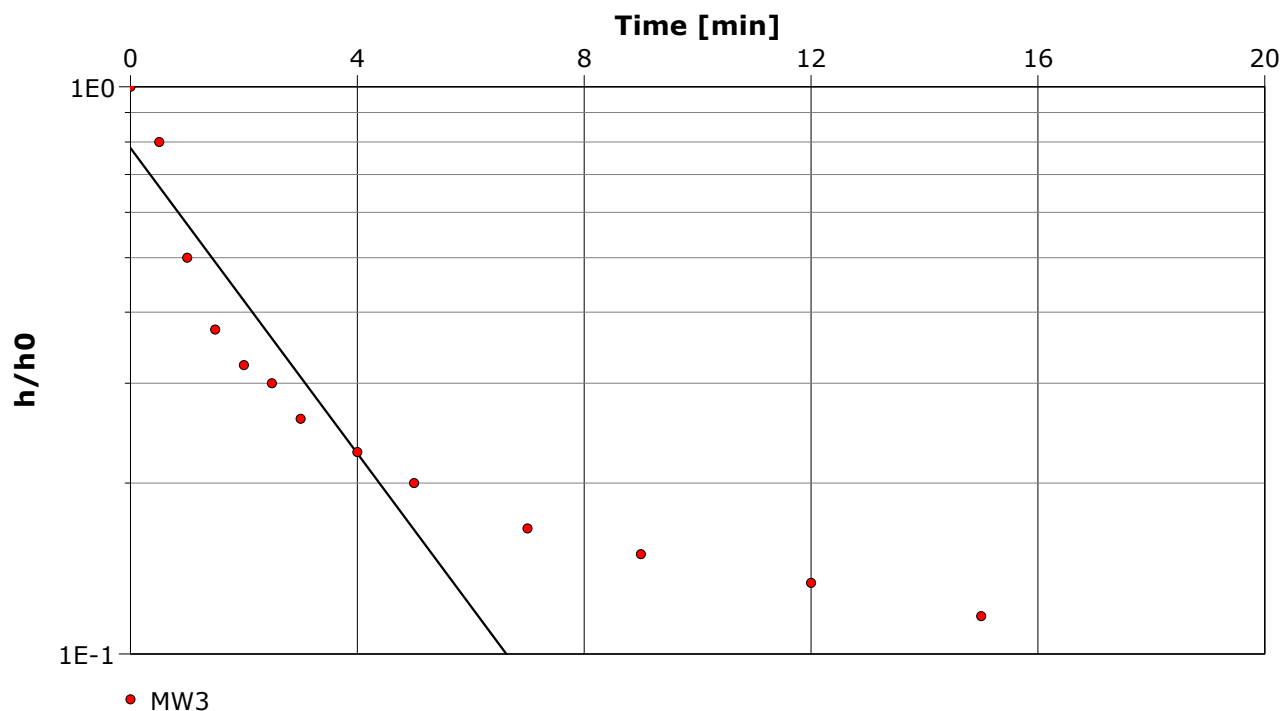
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Dagan

Analysis Date: 21/09/2020

Aquifer Thickness: 1,70 m



Calculation using Dagan

Observation Well

Hydraulic Conductivity
[m/d]

MW3

$2,74 \times 10^{-1}$

Se ajustan a la recta los primeros 5 primeros minutos de recuperación, ya que se trata del tramo que parece responder al bombeo aplicado de manera inmediata, con recuperaciones superiores al 85 % de los niveles piezométricos iniciales.



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Analyses Report

Project: Ampliación Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW3

Test Well: MW3

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Aquifer Thickness: 1,70 m

	Analysis Name	Analysis Performed	Analysis Date	Method name	Well	T [m ² /d]	K [m/d]	S
1	Hvorslev	JIG & ISA	21/09/2020	Hvorslev	MW3		$2,66 \times 10^{-1}$	
2	Bouwer & Rice	JIG & ISA	21/09/2020	Bouwer & Rice	MW3		$2,03 \times 10^{-1}$	
3	Dagan	JIG & ISA	21/09/2020	Dagan	MW3		$2,74 \times 10^{-1}$	



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Water Level Data

Page 1 of 1

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW4

Test Well: MW4

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Water level at t=0 [m]: 7,90

Static Water Level [m]: 5,51

Water level change at t=0 [m]: 2,39

	Time [min]	Water Level [m]	WL Change [m]
1	0	7,90	2,39
2	0,5	7,48	1,97
3	1	7,17	1,66
4	1,5	7,015	1,505
5	2	6,905	1,395
6	3	6,685	1,175
7	4	6,515	1,005
8	5	6,405	0,895
9	6	6,315	0,805
10	8	6,18	0,67
11	10	6,10	0,59
12	13	6,035	0,525
13	16	5,99	0,48
14	20	5,955	0,445



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW4

Test Well: MW4

Test Conducted by: JIG & ISA

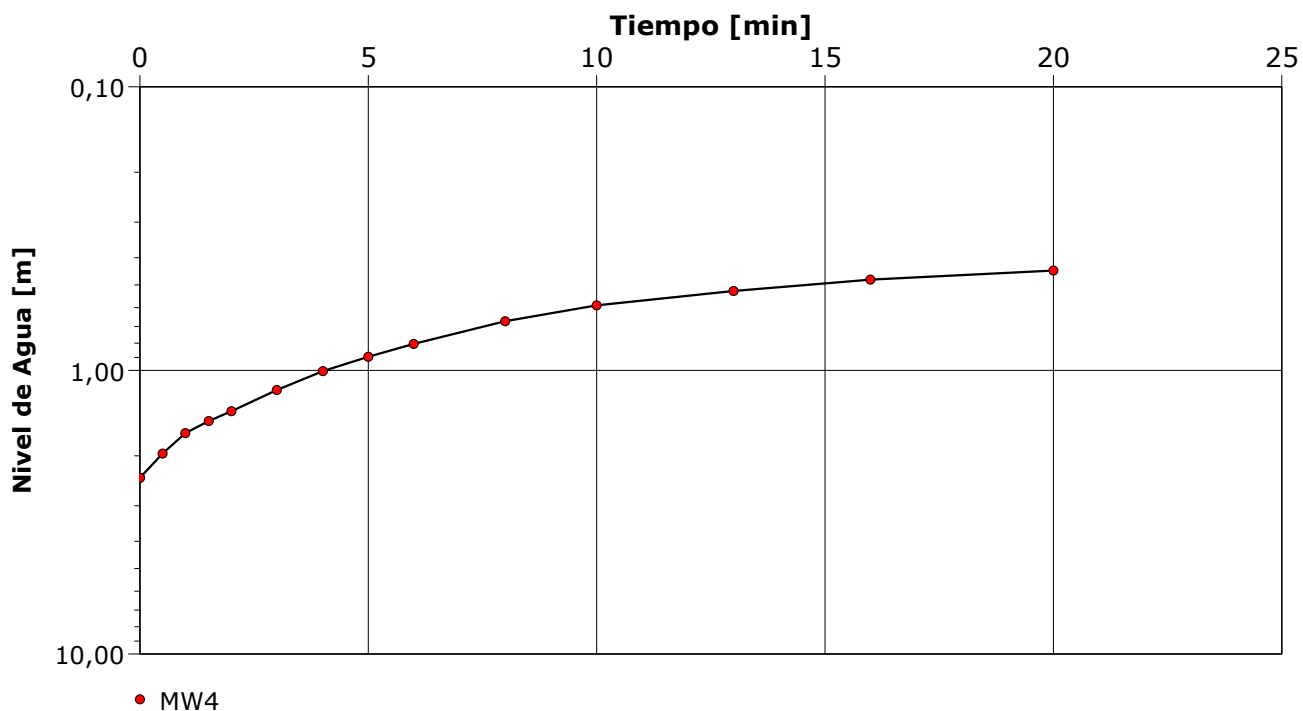
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Tiempo - Nivel Agua

Analysis Date: 21/09/2020

Aquifer Thickness: 1,65 m





ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW4

Test Well: MW4

Test Conducted by: JIG & ISA

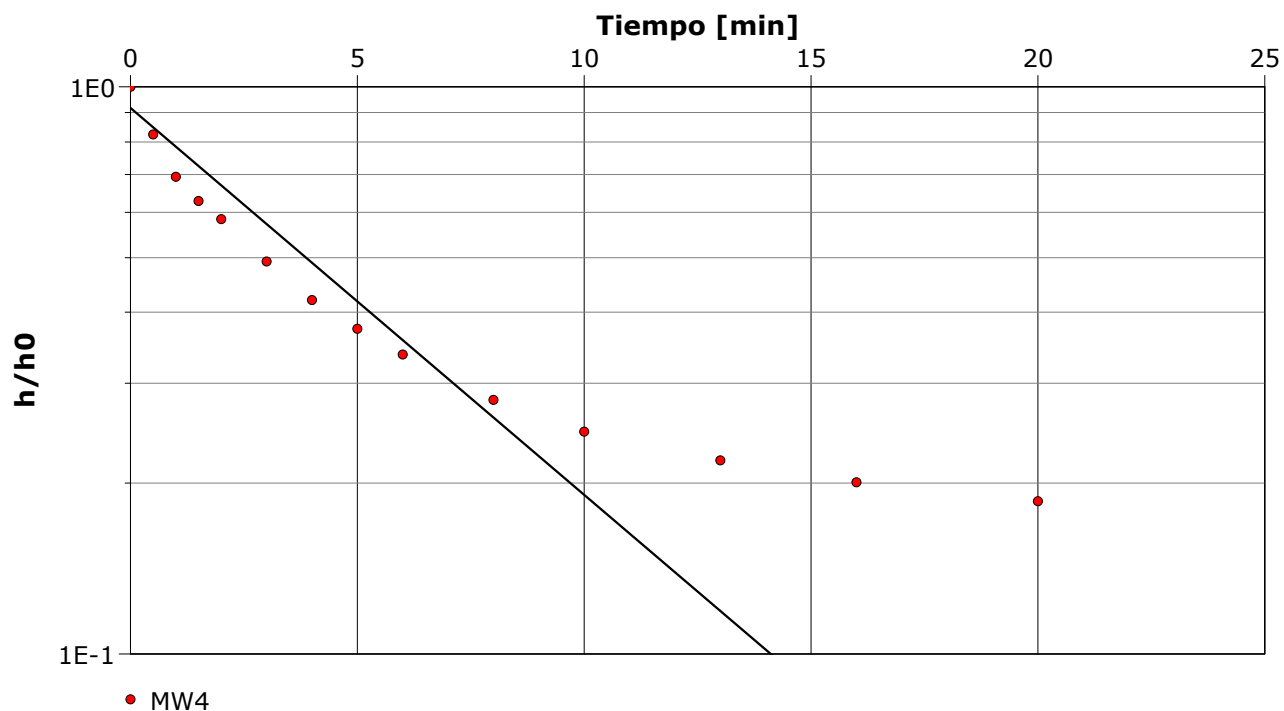
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Hvorslev

Analysis Date: 21/09/2020

Aquifer Thickness: 1,65 m



Calculation using Hvorslev

Observation Well

Hydraulic Conductivity
[m/d]

MW4

$1,13 \times 10^{-1}$



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW4

Test Well: MW4

Test Conducted by: JIG & ISA

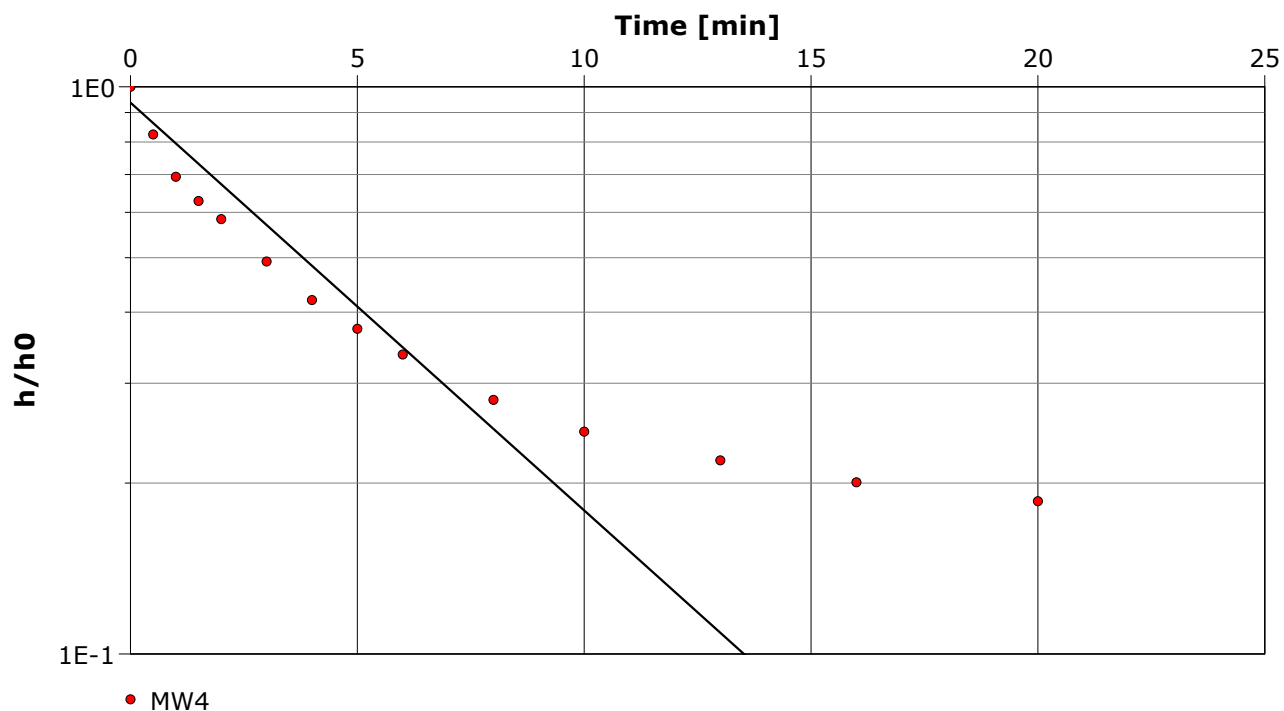
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Bouwer & Rice

Analysis Date: 21/09/2020

Aquifer Thickness: 1,65 m



Calculation using Bouwer & Rice

Observation Well

Hydraulic Conductivity
[m/d]

MW4

$9,24 \times 10^{-2}$



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW4

Test Well: MW4

Test Conducted by: JIG & ISA

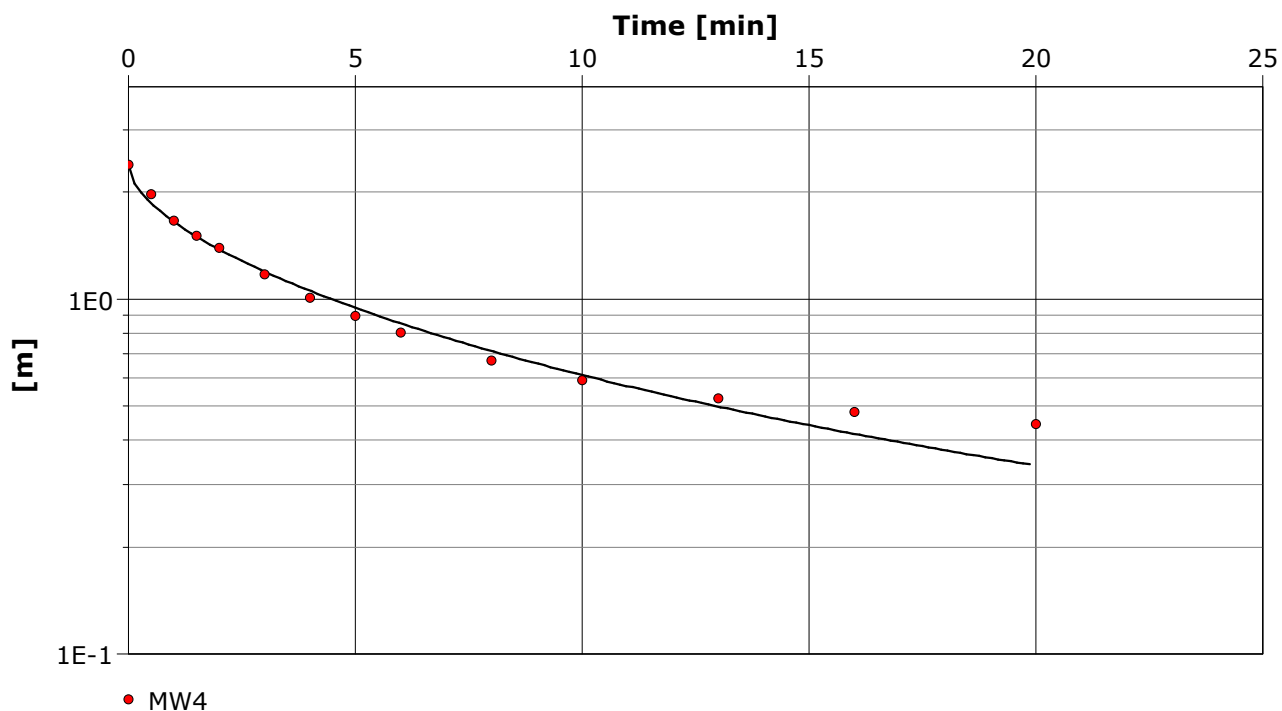
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Cooper-Bredehoeft-Papadopoulos

Analysis Date: 21/09/2020

Aquifer Thickness: 1,65 m



Calculation using Cooper-Bredehoeft-Papadopoulos

Observation Well	Transmissivity [m ² /d]	Hydraulic Conductivity [m/d]	Well-bore storage coefficient	
MW4	$1,03 \times 10^{-1}$	$6,25 \times 10^{-2}$	$1,57 \times 10^{-1}$	



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Analyses Report

Project: Ampliación Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW4

Test Well: MW4

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Aquifer Thickness: 1,65 m

	Analysis Name	Analysis Performed	Analysis Date	Method name	Well	T [m ² /d]	K [m/d]	S
1	Hvorslev	JIG & ISA	21/09/2020	Hvorslev	MW4		$1,13 \times 10^{-1}$	
2	Bouwer & Rice	JIG & ISA	21/09/2020	Bouwer & Rice	MW4		$9,24 \times 10^{-2}$	
3	Cooper-Bredehoeft	JIG & ISA	21/09/2020	Cooper-Bredehoeft	MW4	$1,03 \times 10^{-1}$	$6,25 \times 10^{-2}$	$1,57 \times 10^{-1}$



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Water Level Data

Page 1 of 1

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW6

Test Well: MW6

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Water level at t=0 [m]: 8,90

Static Water Level [m]: 6,41

Water level change at t=0 [m]: 2,49

	Time [min]	Water Level [m]	WL Change [m]
1	0	8,90	2,49
2	0,5	8,56	2,15
3	1	8,49	2,08
4	2	8,285	1,875
5	3	8,07	1,66
6	5	7,785	1,375
7	7	7,64	1,23
8	10	7,53	1,12
9	15	7,29	0,88
10	20	6,94	0,53
11	25	6,68	0,27
12	30	6,53	0,12



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW6

Test Well: MW6

Test Conducted by: JIG & ISA

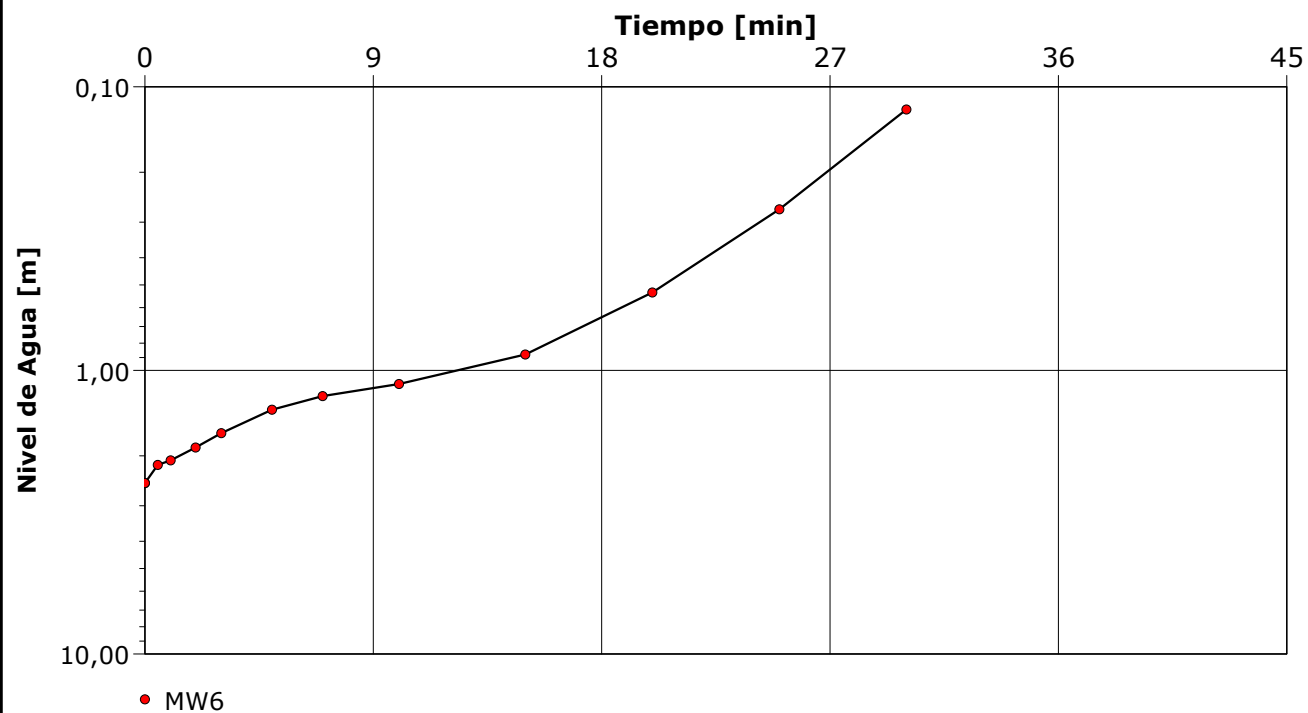
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Tiempo - Nivel Agua

Analysis Date: 21/09/2020

Aquifer Thickness: 0,50 m





ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW6

Test Well: MW6

Test Conducted by: JIG & ISA

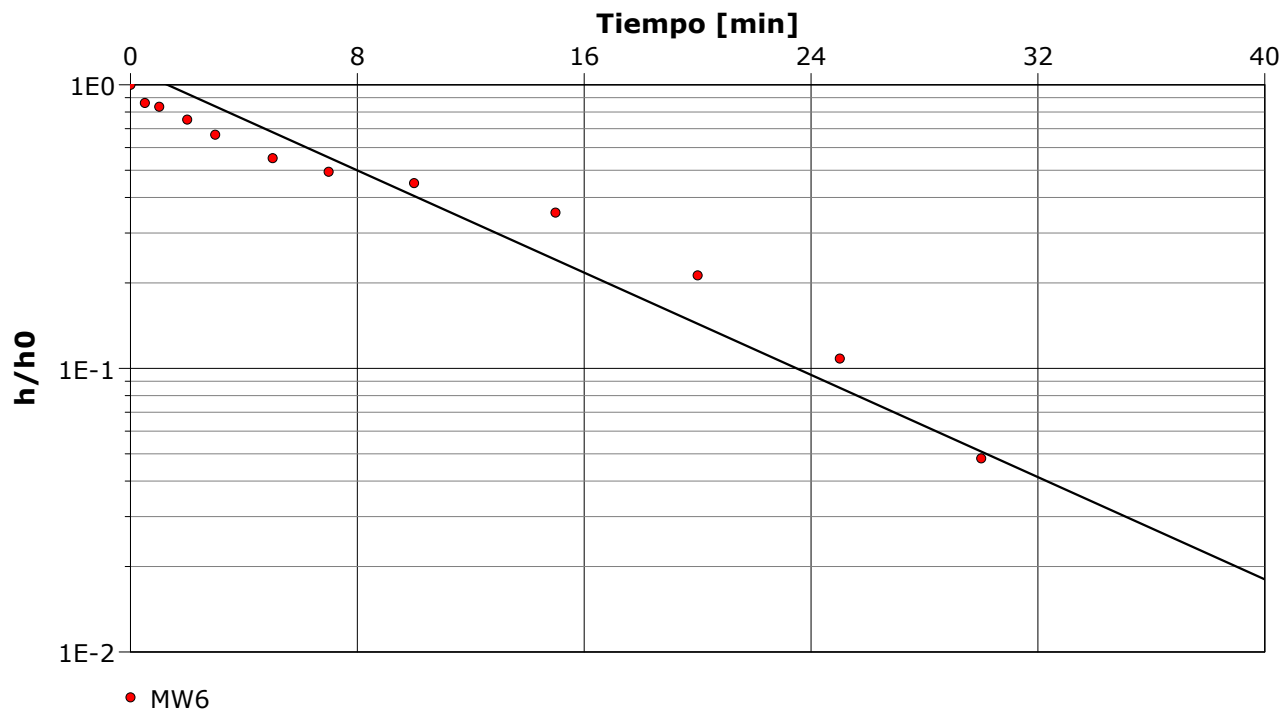
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Hvorslev

Analysis Date: 21/09/2020

Aquifer Thickness: 0,50 m



Calculation using Hvorslev

Observation Well

Hydraulic Conductivity
[m/d]

MW6

$1,03 \times 10^{-1}$



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW6

Test Well: MW6

Test Conducted by: JIG & ISA

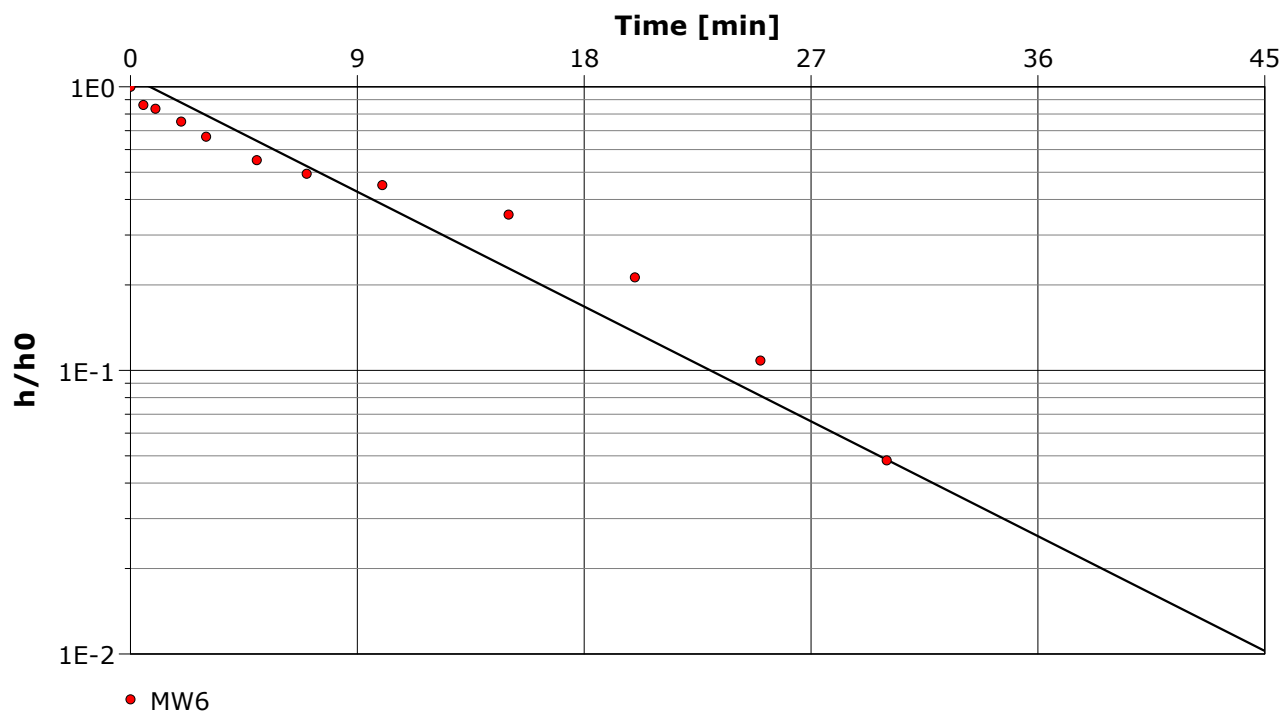
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Bouwer & Rice

Analysis Date: 21/09/2020

Aquifer Thickness: 0,50 m



Calculation using Bouwer & Rice

Observation Well

Hydraulic Conductivity
[m/d]

MW6

$7,89 \times 10^{-2}$



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliación Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW6

Test Well: MW6

Test Conducted by: JIG & ISA

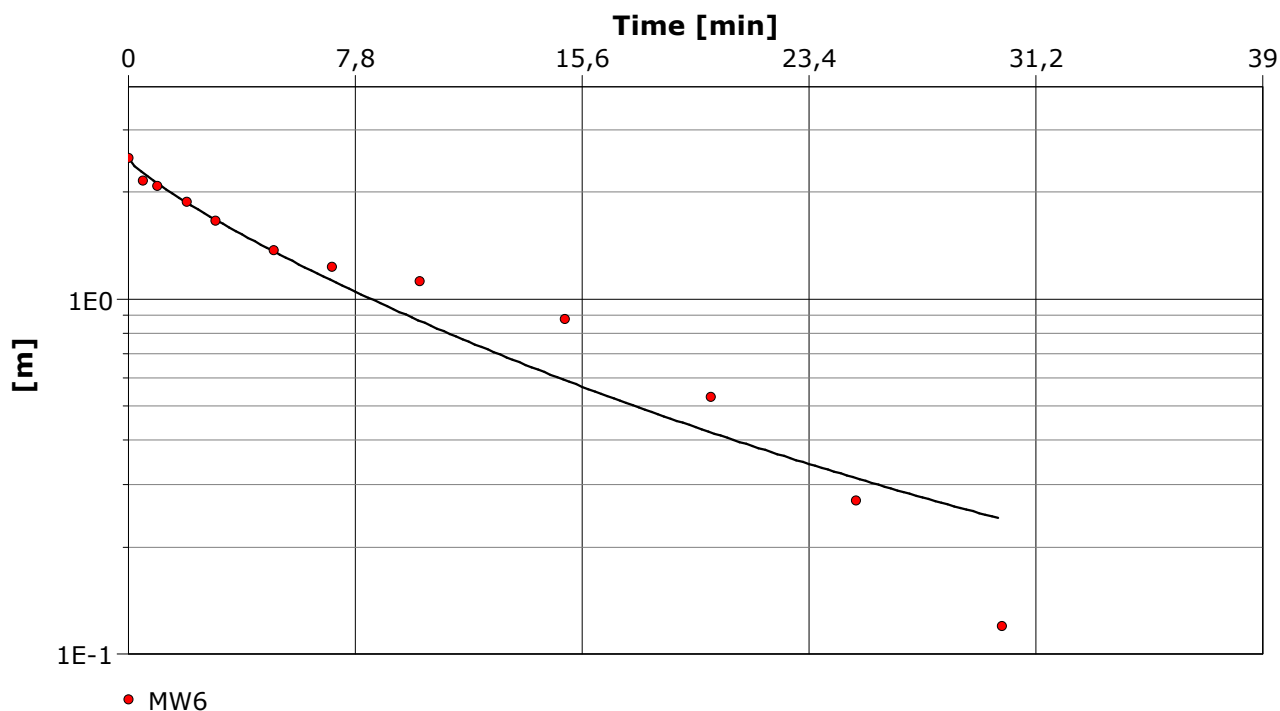
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Cooper-Bredehoeft-Papadopoulos

Analysis Date: 21/09/2020

Aquifer Thickness: 0,50 m



Calculation using Cooper-Bredehoeft-Papadopoulos

Observation Well	Transmissivity [m ² /d]	Hydraulic Conductivity [m/d]	Well-bore storage coefficient	
MW6	$1,89 \times 10^{-1}$	$3,78 \times 10^{-1}$	$1,39 \times 10^{-3}$	



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Analyses Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW6

Test Well: MW6

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Aquifer Thickness: 0,50 m

	Analysis Name	Analysis Performed	Analysis Date	Method name	Well	T [m ² /d]	K [m/d]	S
1	Hvorslev	JIG & ISA	21/09/2020	Hvorslev	MW6		$1,03 \times 10^{-1}$	
2	Bouwer & Rice	JIG & ISA	21/09/2020	Bouwer & Rice	MW6		$7,89 \times 10^{-2}$	
3	Cooper-Bredehoeft	JIG & ISA	21/09/2020	Cooper-Bredehoeft	MW6	$1,89 \times 10^{-1}$	$3,78 \times 10^{-1}$	$1,39 \times 10^{-3}$



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Water Level Data

Page 1 of 1

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Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW8

Test Well: MW8

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Water level at t=0 [m]: 9,48

Static Water Level [m]: 7,11

Water level change at t=0 [m]: 2,38

	Time [min]	Water Level [m]	WL Change [m]
1	0	9,48	2,375
2	0,5	9,20	2,095
3	1	9,07	1,965
4	1,5	8,91	1,805
5	2	8,765	1,66
6	3	8,445	1,34
7	4	8,185	1,08
8	6	7,86	0,755
9	8	7,67	0,565
10	10	7,51	0,405
11	13	7,365	0,26
12	16	7,295	0,19
13	20	7,245	0,14



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW8

Test Well: MW8

Test Conducted by: JIG & ISA

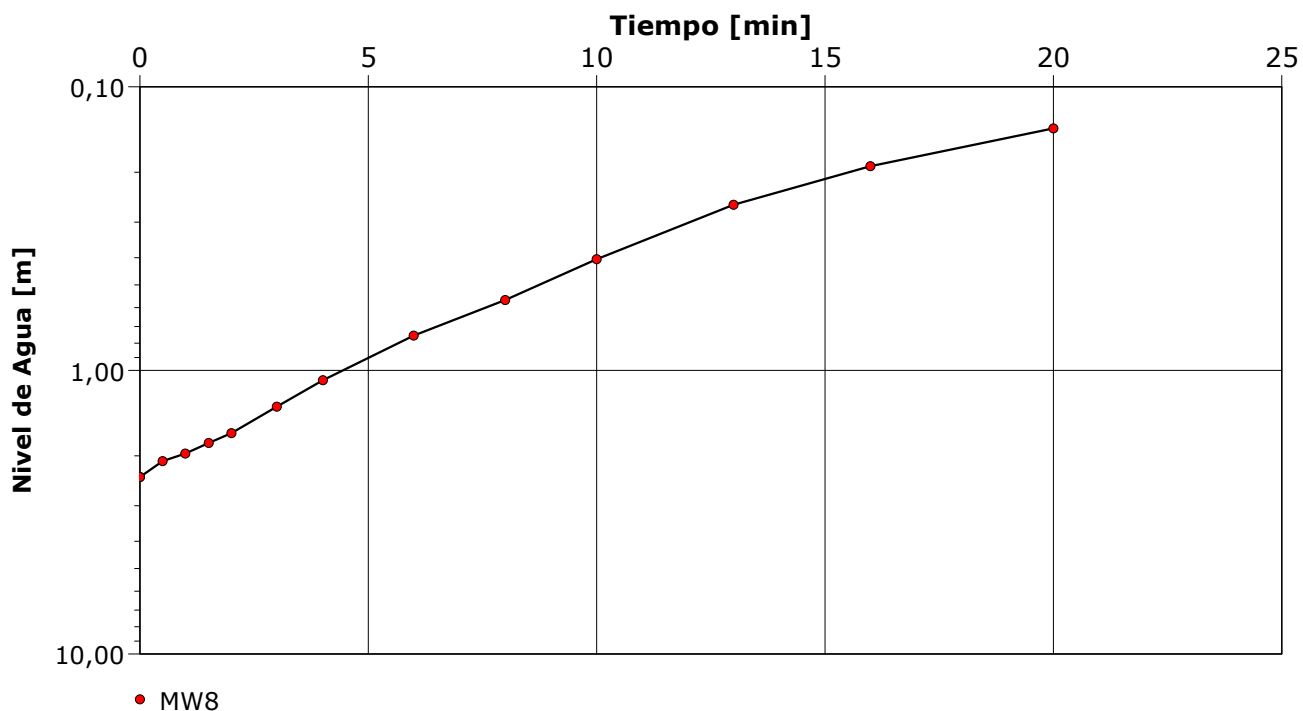
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Tiempo - Nivel Agua

Analysis Date: 21/09/2020

Aquifer Thickness: 1,00 m





ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW8

Test Well: MW8

Test Conducted by: JIG & ISA

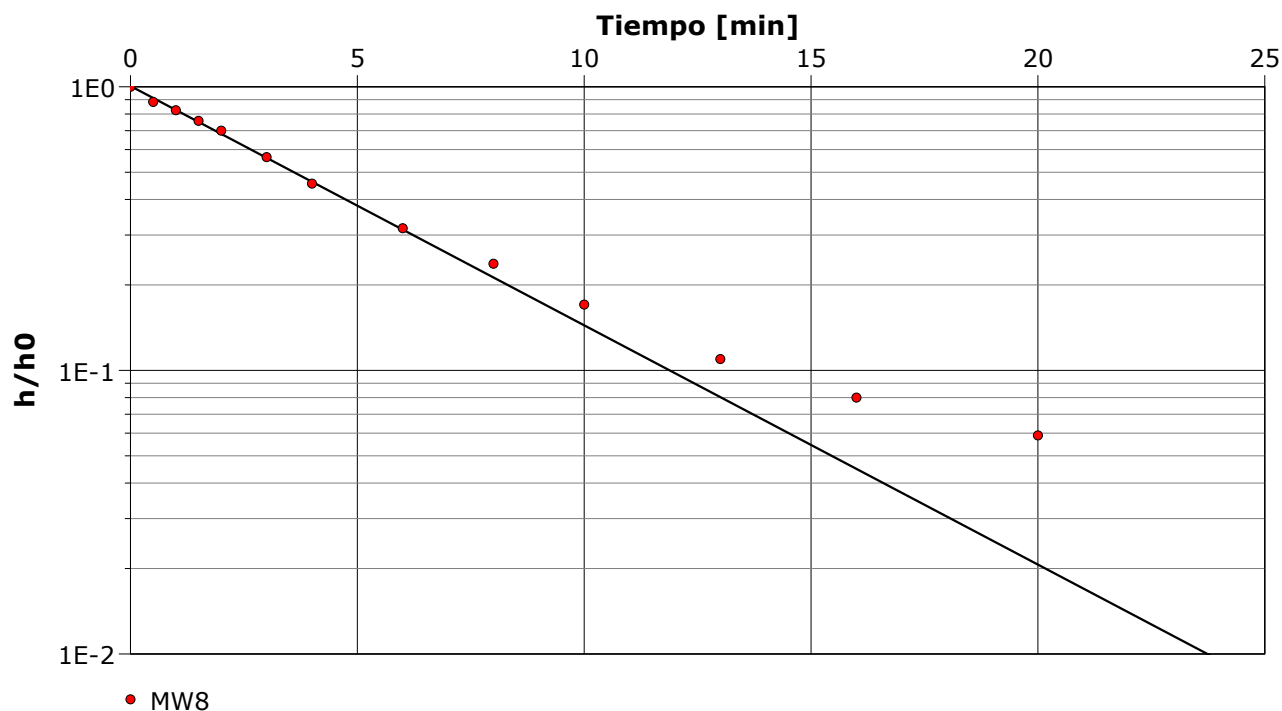
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Hvorslev

Analysis Date: 21/09/2020

Aquifer Thickness: 1,00 m



Calculation using Hvorslev

Observation Well

Hydraulic Conductivity
[m/d]

MW8

$1,12 \times 10^{-1}$

Los parámetros hidráulicos de este punto, corresponden al acuífero profundo, de tipo semiconfinado.



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW8

Test Well: MW8

Test Conducted by: JIG & ISA

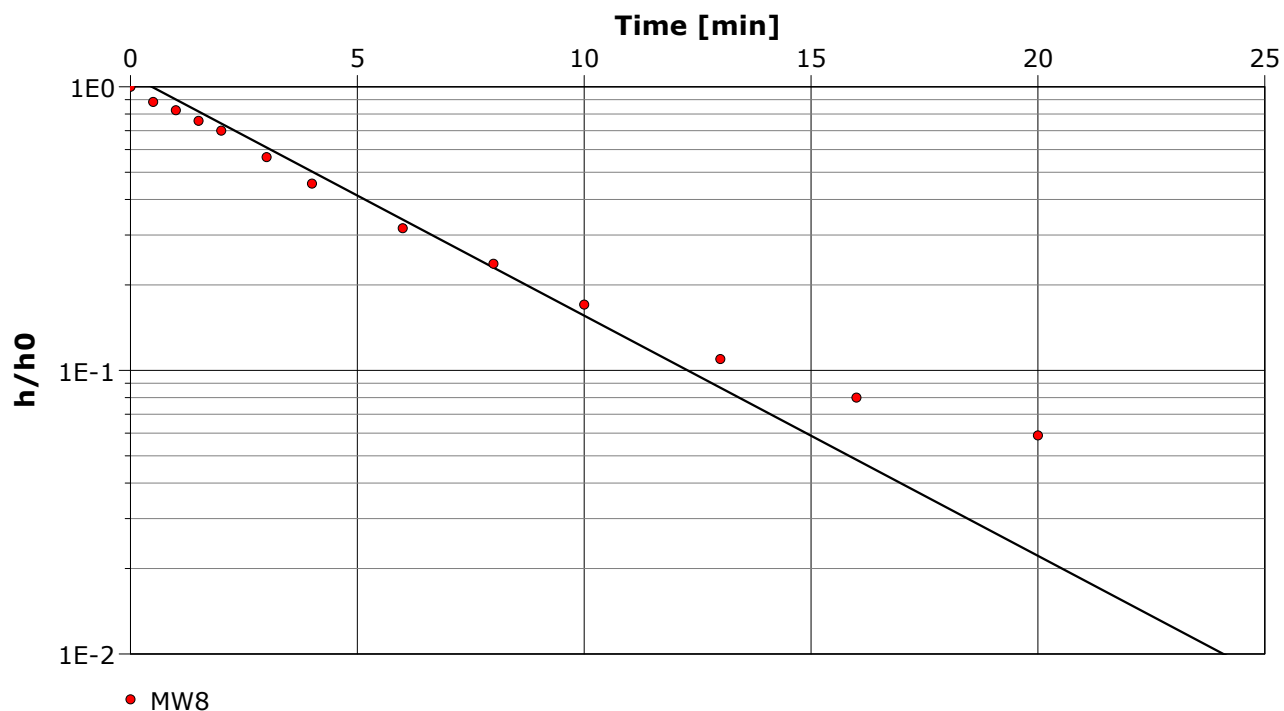
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Bouwer & Rice

Analysis Date: 21/09/2020

Aquifer Thickness: 1,00 m



Calculation using Bouwer & Rice

Observation Well

Hydraulic Conductivity
[m/d]

MW8

$8,70 \times 10^{-2}$



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliación Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW8

Test Well: MW8

Test Conducted by: JIG & ISA

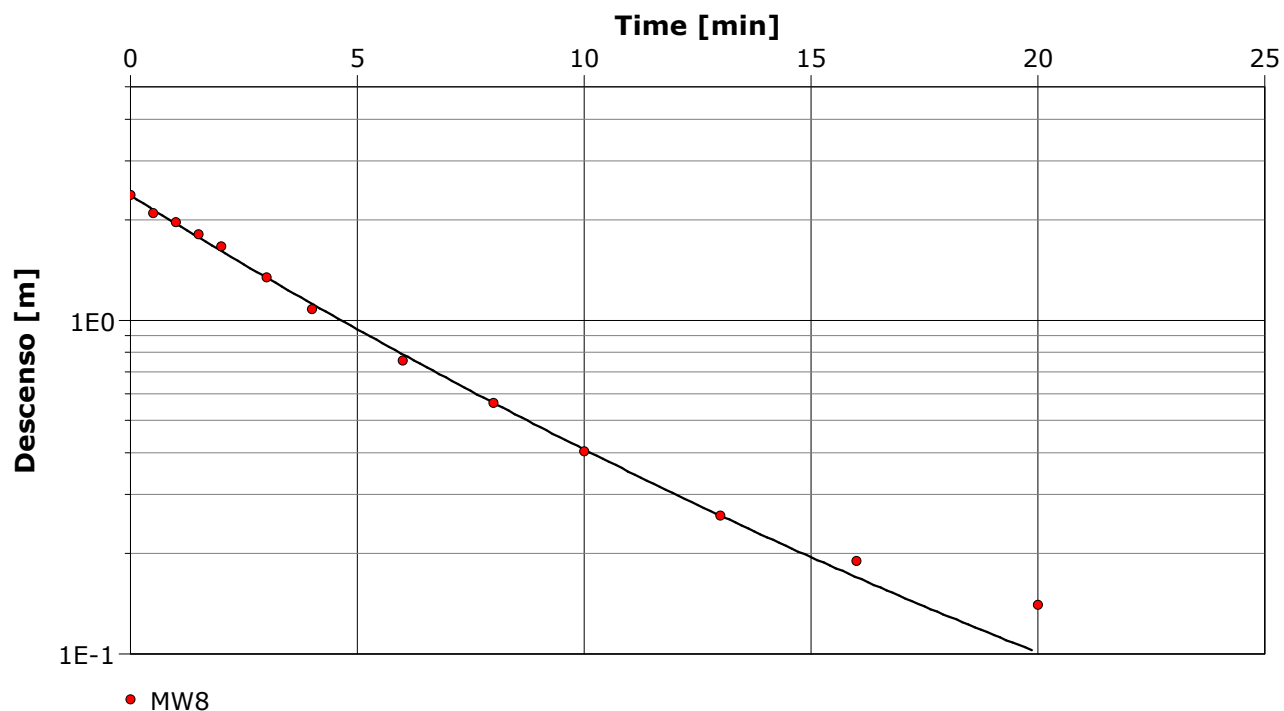
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Cooper-Bredehoeft-Papadopoulos

Analysis Date: 21/09/2020

Aquifer Thickness: 1,00 m



Calculation using Cooper-Bredehoeft-Papadopoulos

Observation Well	Transmissivity [m ² /d]	Hydraulic Conductivity [m/d]	Well-bore storage coefficient	
MW8	$1,15 \times 10^0$	$1,15 \times 10^0$	$1,02 \times 10^{-11}$	

Los parámetros hidráulicos de este punto, corresponden al acuífero profundo, de tipo semiconfinado.



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Analyses Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW8

Test Well: MW8

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Aquifer Thickness: 1,00 m

	Analysis Name	Analysis Performed	Analysis Date	Method name	Well	T [m ² /d]	K [m/d]	S
1	Hvorslev	JIG & ISA	21/09/2020	Hvorslev	MW8		$1,12 \times 10^{-1}$	
2	Bouwer & Rice	JIG & ISA	21/09/2020	Bouwer & Rice	MW8		$8,70 \times 10^{-2}$	
3	Cooper-Bredehoeft	JIG & ISA	21/09/2020	Cooper-Bredehoeft	MW8	$1,15 \times 10^0$	$1,15 \times 10^0$	$1,02 \times 10^{-11}$



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Water Level Data

Page 1 of 1

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW9

Test Well: MW9

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Water level at t=0 [m]: 10,19

Static Water Level [m]: 9,78

Water level change at t=0 [m]: 0,41

	Time [min]	Water Level [m]	WL Change [m]
1	0	10,19	0,41
2	0,5	10,09	0,31
3	1	10,01	0,23
4	1,5	9,97	0,19
5	2,5	9,92	0,14
6	3	9,895	0,115
7	4	9,86	0,08
8	6	9,805	0,025
9	8	9,78	0,00



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW9

Test Well: MW9

Test Conducted by: JIG & ISA

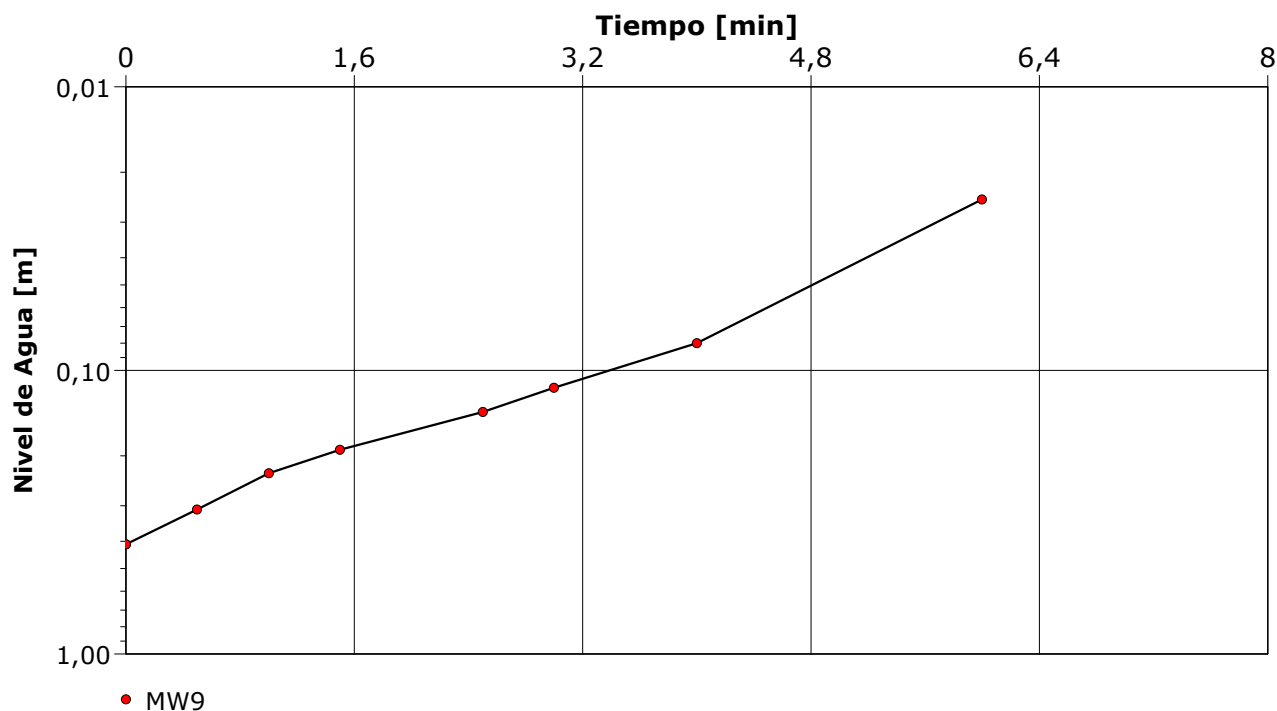
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Tiempo - Nivel Agua

Analysis Date: 21/09/2020

Aquifer Thickness: 1,80 m





ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW9

Test Well: MW9

Test Conducted by: JIG & ISA

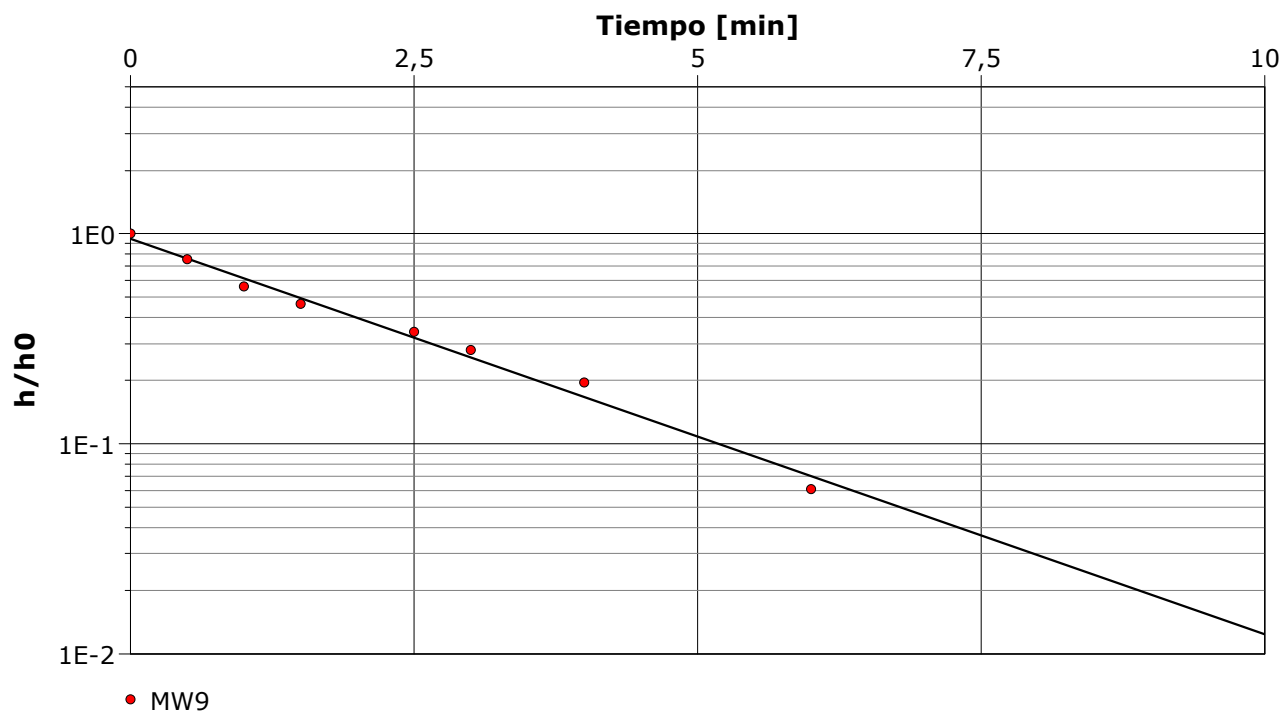
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Hvorslev

Analysis Date: 21/09/2020

Aquifer Thickness: 1,80 m



Calculation using Hvorslev

Observation Well

Hydraulic Conductivity
[m/d]

MW9

$2,49 \times 10^{-1}$

Recuperaciones de nivel muy rápidos, en unos 8 minutos, indicativos de valores medios de permeabilidad.



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW9

Test Well: MW9

Test Conducted by: JIG & ISA

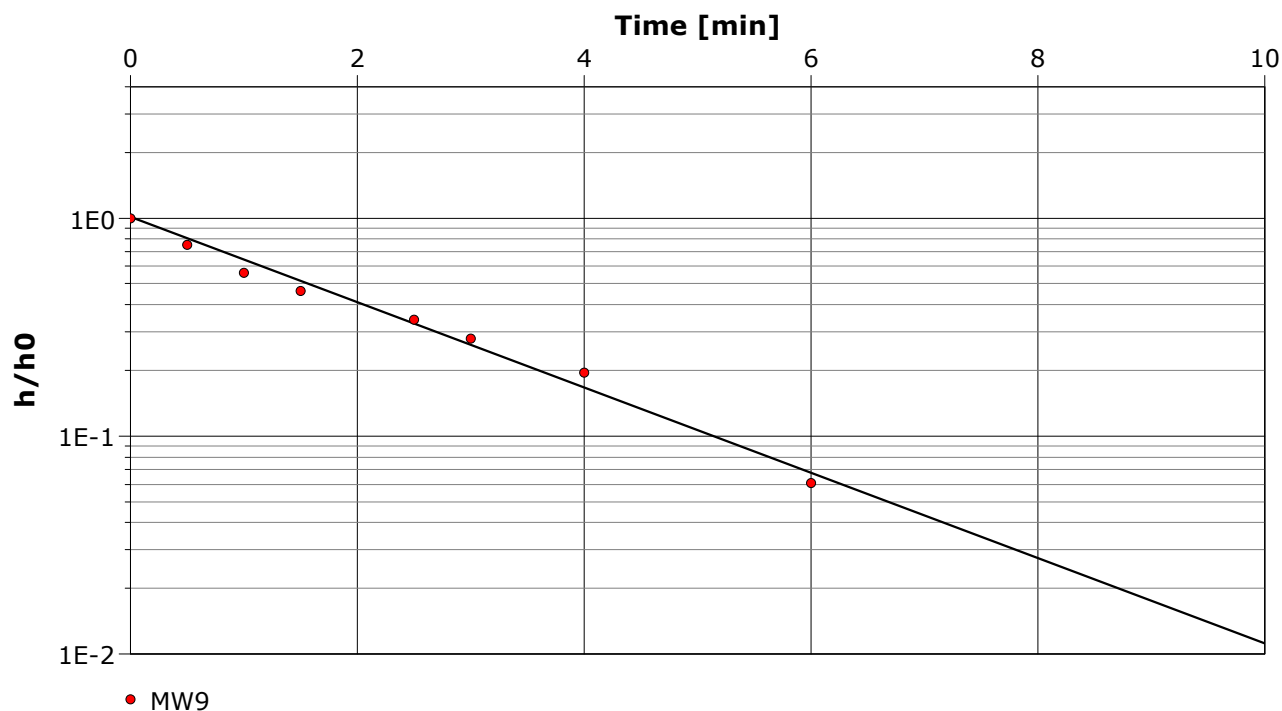
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Bouwer & Rice

Analysis Date: 21/09/2020

Aquifer Thickness: 1,80 m



Calculation using Bouwer & Rice

Observation Well

Hydraulic Conductivity
[m/d]

MW9

$2,01 \times 10^{-1}$

Recuperaciones de nivel muy rápidos, en unos 8 minutos, indicativos de valores medios de permeabilidad.



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW9

Test Well: MW9

Test Conducted by: JIG & ISA

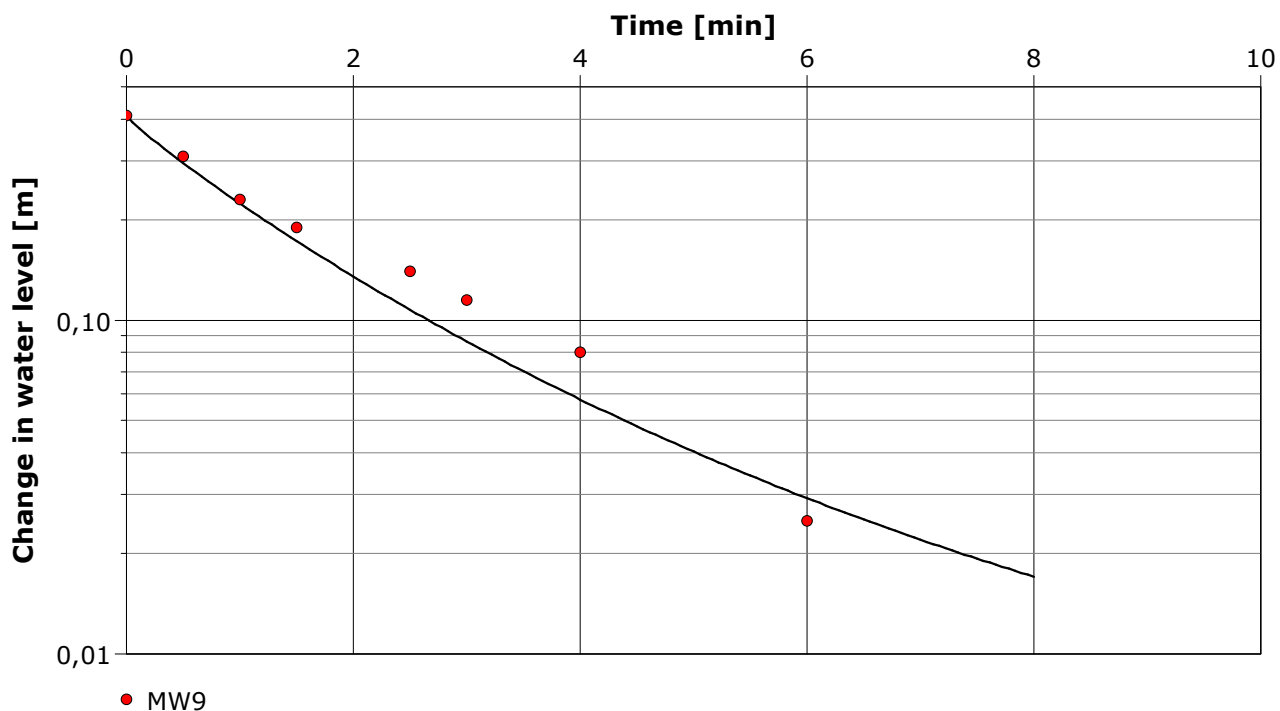
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Cooper-Bredehoeft-Papadopoulos

Analysis Date: 21/09/2020

Aquifer Thickness: 1,80 m



Calculation using Cooper-Bredehoeft-Papadopoulos

Observation Well	Transmissivity [m ² /d]	Hydraulic Conductivity [m/d]	Well-bore storage coefficient	
MW9	$1,56 \times 10^0$	$8,67 \times 10^{-1}$	$2,38 \times 10^{-5}$	



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Analyses Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW9

Test Well: MW9

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Aquifer Thickness: 1,80 m

	Analysis Name	Analysis Performed	Analysis Date	Method name	Well	T [m ² /d]	K [m/d]	S
1	Hvorslev	JIG & ISA	21/09/2020	Hvorslev	MW9		$2,49 \times 10^{-1}$	
2	Bouwer & Rice	JIG & ISA	21/09/2020	Bouwer & Rice	MW9		$2,01 \times 10^{-1}$	
3	Cooper-Bredehoeft	JIG & ISA	21/09/2020	Cooper-Bredehoeft	MW9	$1,56 \times 10^0$	$8,67 \times 10^{-1}$	$2,38 \times 10^{-5}$



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Water Level Data

Page 1 of 1

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW10

Test Well: MW10

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Water level at t=0 [m]: 6,70

Static Water Level [m]: 4,41

Water level change at t=0 [m]: 2,29

	Time [min]	Water Level [m]	WL Change [m]
1	0	6,70	2,29
2	0,5	6,63	2,22
3	1	6,34	1,93
4	1,5	6,01	1,60
5	2	5,725	1,315
6	3	5,14	0,73
7	4	4,57	0,16
8	5	4,415	0,005



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW10

Test Well: MW10

Test Conducted by: JIG & ISA

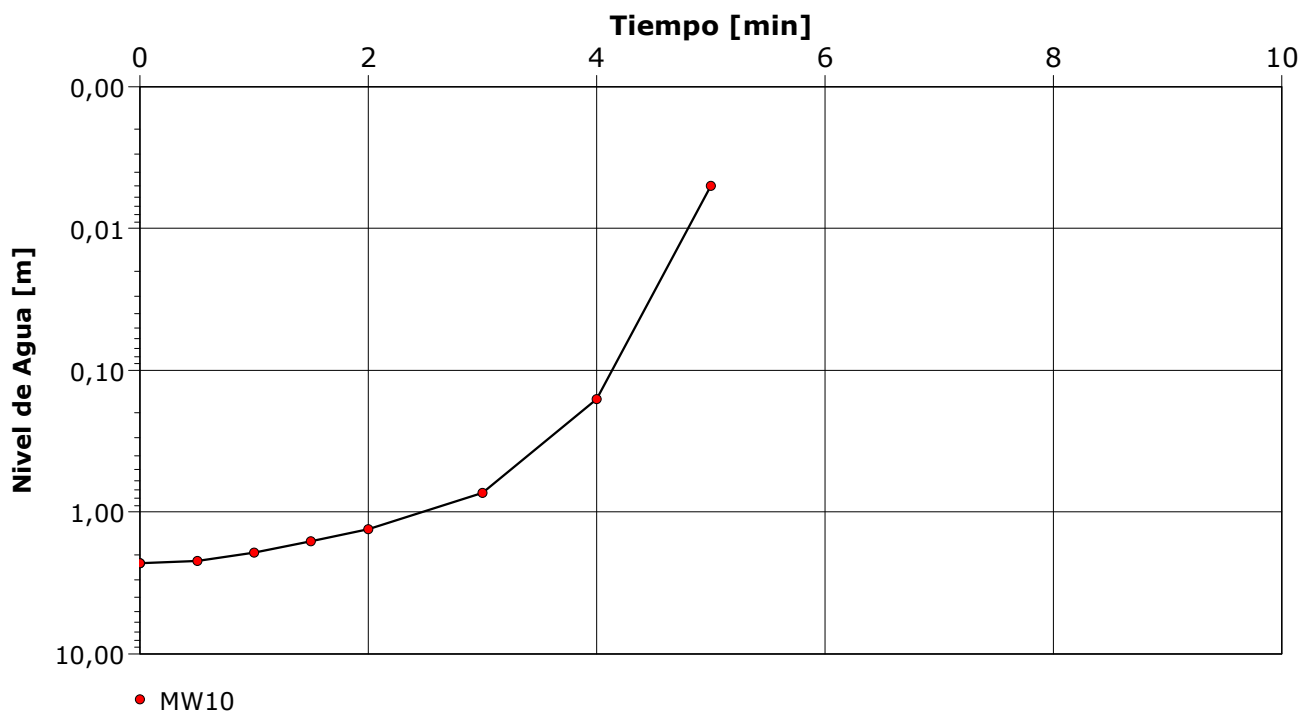
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Tiempo - Nivel Agua

Analysis Date: 21/09/2020

Aquifer Thickness: 0,50 m





ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW10

Test Well: MW10

Test Conducted by: JIG & ISA

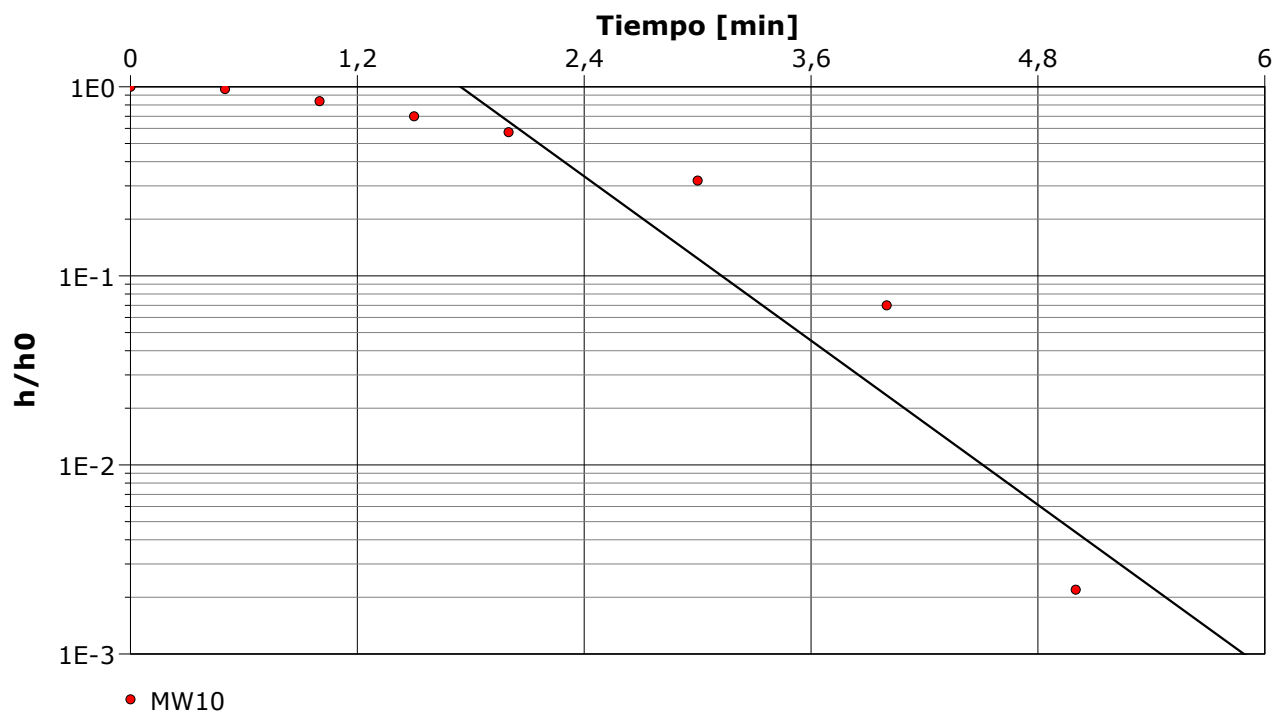
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Hvorslev

Analysis Date: 21/09/2020

Aquifer Thickness: 0,50 m



Calculation using Hvorslev

Observation Well

Hydraulic Conductivity
[m/d]

MW10

$1,65 \times 10^0$

Recuperaciones de nivel muy rápidos, en unos 5 minutos, indicativos de valores medios de permeabilidad.



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW10

Test Well: MW10

Test Conducted by: JIG & ISA

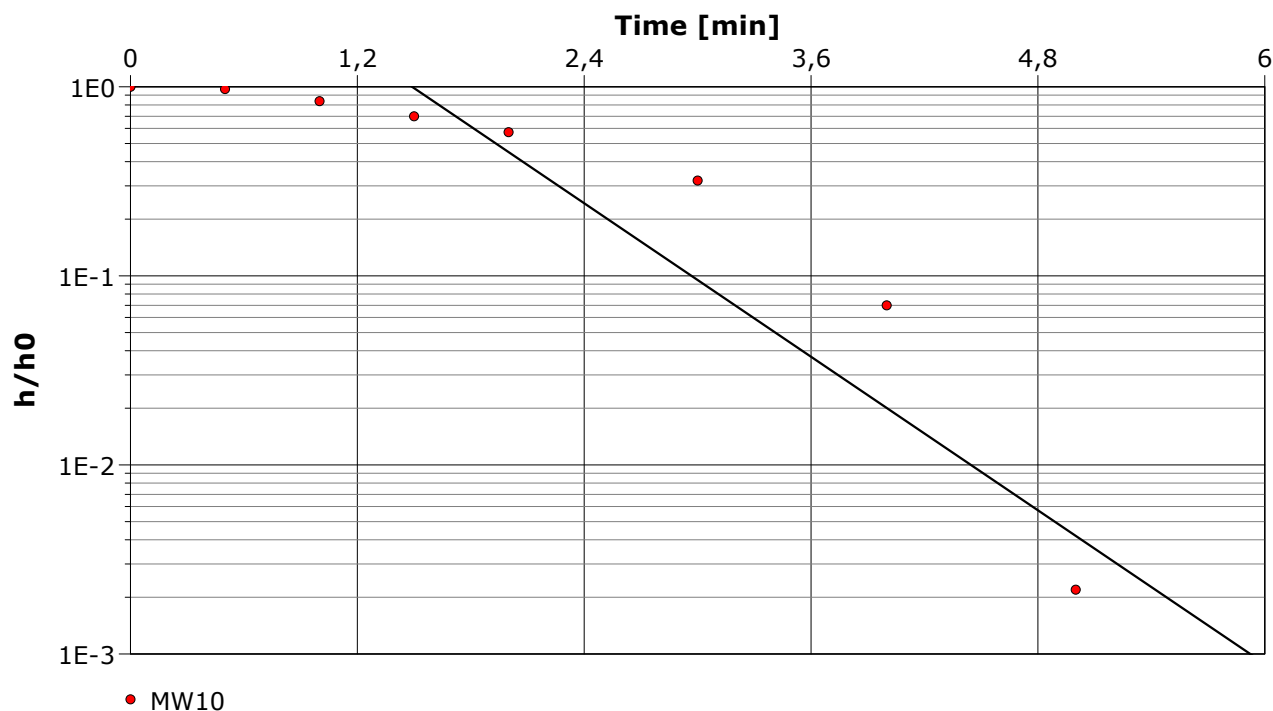
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Bouwer & Rice

Analysis Date: 21/09/2020

Aquifer Thickness: 0,50 m



Calculation using Bouwer & Rice

Observation Well

Hydraulic Conductivity
[m/d]

MW10

$1,19 \times 10^0$

Recuperaciones de nivel muy rápidos, en unos 5 minutos, indicativos de valores medios de permeabilidad.



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Analyses Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW10

Test Well: MW10

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Aquifer Thickness: 0,50 m

	Analysis Name	Analysis Performed	Analysis Date	Method name	Well	T [m ² /d]	K [m/d]	S
1	Hvorslev	JIG & ISA	21/09/2020	Hvorslev	MW10		$1,65 \times 10^0$	
2	Bouwer & Rice	JIG & ISA	21/09/2020	Bouwer & Rice	MW10		$1,19 \times 10^0$	



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Water Level Data

Page 1 of 1

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW13

Test Well: MW13

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Water level at t=0 [m]: 6,00

Static Water Level [m]: 2,88

Water level change at t=0 [m]: 3,13

	Time [min]	Water Level [m]	WL Change [m]
1	0	6,00	3,125
2	0,25	4,67	1,795
3	0,5	4,41	1,535
4	0,75	4,10	1,225
5	1	3,90	1,025
6	1,25	3,66	0,785
7	1,5	3,43	0,555
8	2	3,22	0,345
9	2,5	3,11	0,235
10	3	3,01	0,135
11	3,5	2,93	0,055
12	4	2,88	0,005



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW13

Test Well: MW13

Test Conducted by: JIG & ISA

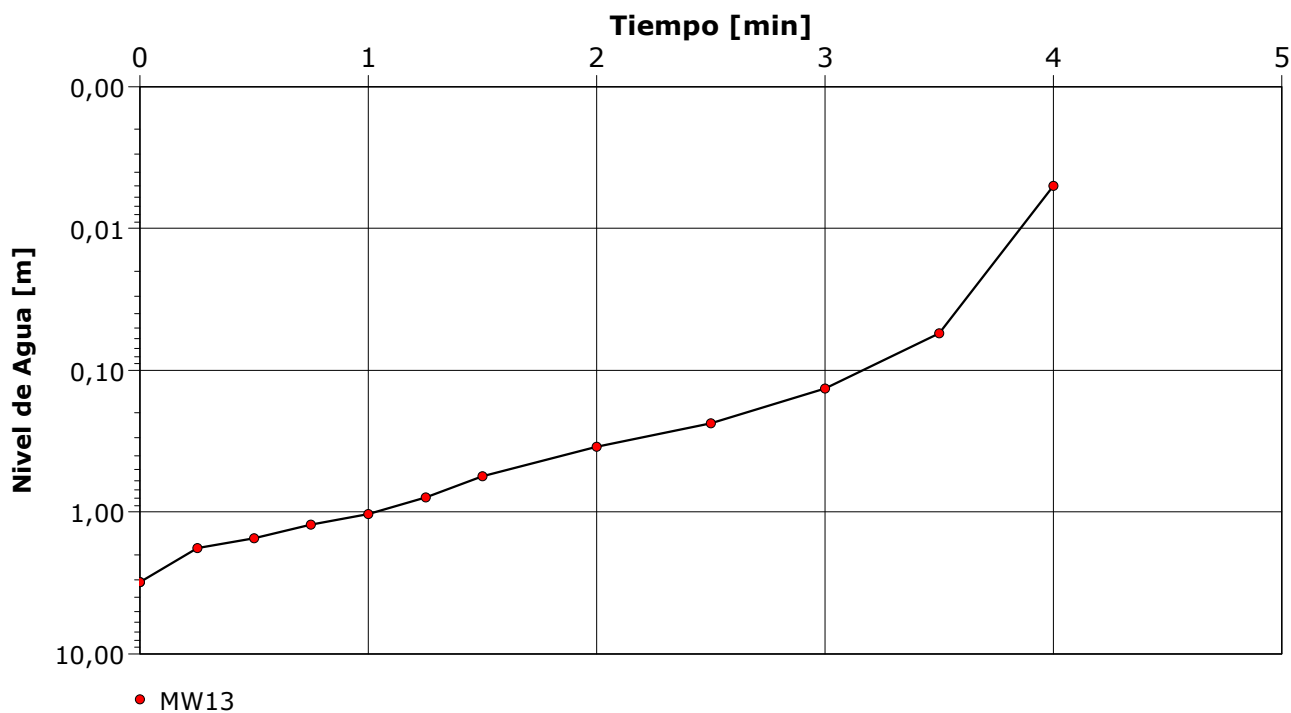
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Tiempo - Nivel Agua

Analysis Date: 21/09/2020

Aquifer Thickness: 0,90 m





ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW13

Test Well: MW13

Test Conducted by: JIG & ISA

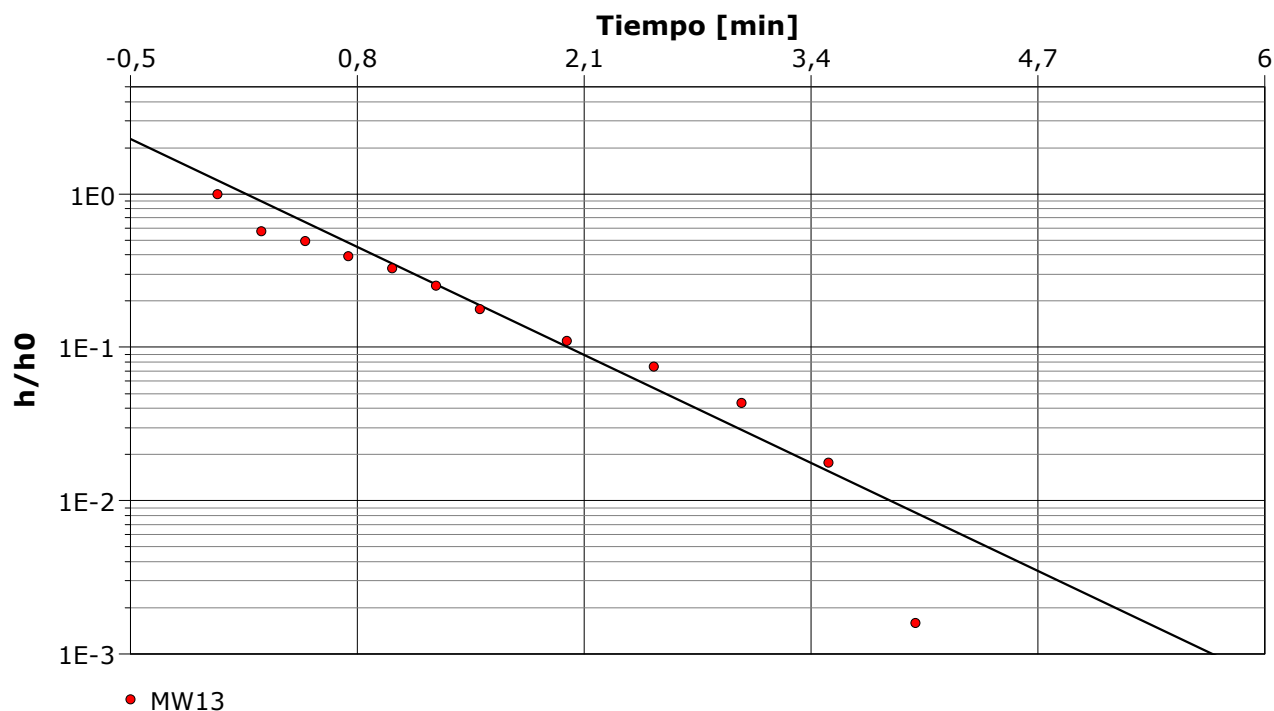
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Hvorslev

Analysis Date: 21/09/2020

Aquifer Thickness: 0,90 m



Calculation using Hvorslev

Observation Well

Hydraulic Conductivity
[m/d]

MW13

$9,02 \times 10^{-1}$

Recuperaciones de nivel muy rápidos, en unos 4 minutos, indicativos de valores medios de permeabilidad.



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW13

Test Well: MW13

Test Conducted by: JIG & ISA

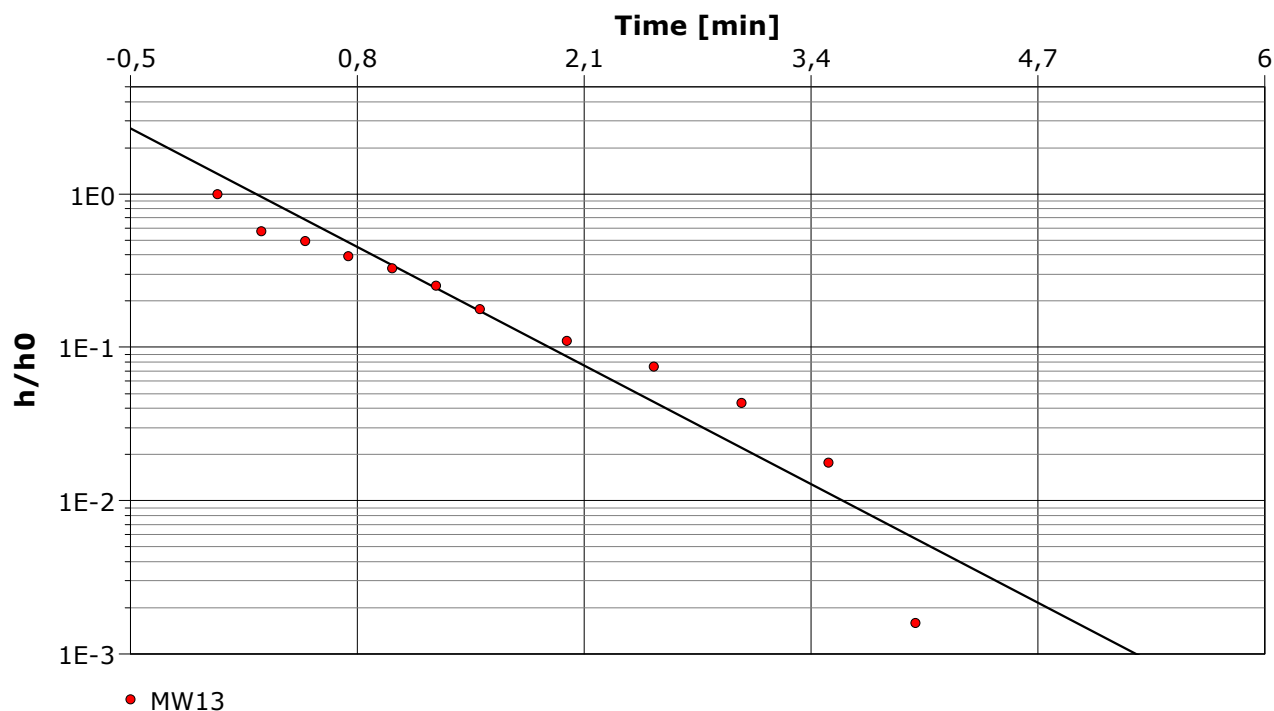
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Bouwer & Rice

Analysis Date: 21/09/2020

Aquifer Thickness: 0,90 m



Calculation using Bouwer & Rice

Observation Well

Hydraulic Conductivity
[m/d]

MW13

$7,64 \times 10^{-1}$

Recuperaciones de nivel muy rápidos, en 4 minutos, indicativos de valores medios de permeabilidad.



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW13

Test Well: MW13

Test Conducted by: JIG & ISA

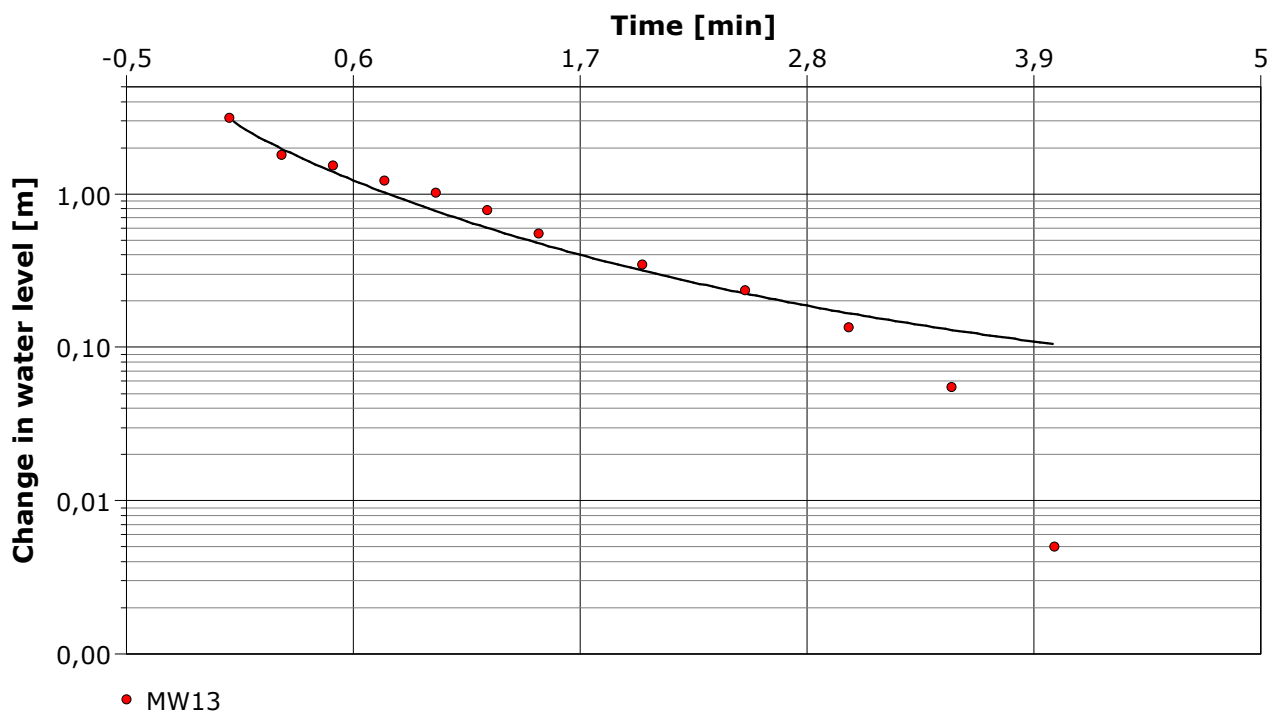
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Cooper-Bredehoeft-Papadopoulos

Analysis Date: 21/09/2020

Aquifer Thickness: 0,90 m



Calculation using Cooper-Bredehoeft-Papadopoulos

Observation Well	Transmissivity [m ² /d]	Hydraulic Conductivity [m/d]	Well-bore storage coefficient	
MW13	$2,82 \times 10^0$	$3,13 \times 10^0$	$1,03 \times 10^{-3}$	



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Analyses Report

Project: Ampliación Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW13

Test Well: MW13

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Aquifer Thickness: 0,90 m

	Analysis Name	Analysis Performed	Analysis Date	Method name	Well	T [m ² /d]	K [m/d]	S
1	Hvorslev	JIG & ISA	21/09/2020	Hvorslev	MW13		$9,02 \times 10^{-1}$	
2	Bouwer & Rice	JIG & ISA	21/09/2020	Bouwer & Rice	MW13		$7,64 \times 10^{-1}$	
3	Cooper-Bredehoeft	JIG & ISA	21/09/2020	Cooper-Bredehoeft	MW13	$2,82 \times 10^0$	$3,13 \times 10^0$	$1,03 \times 10^{-3}$



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Water Level Data

Page 1 of 1

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW14

Test Well: MW14

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Water level at t=0 [m]: 8,00

Static Water Level [m]: 4,10

Water level change at t=0 [m]: 3,90

	Time [min]	Water Level [m]	WL Change [m]
1	0	8,00	3,90
2	0,5	7,74	3,64
3	1	7,70	3,60
4	2	7,64	3,54
5	3	7,585	3,485
6	5	7,485	3,385
7	7	7,395	3,295
8	10	7,27	3,17
9	16	6,995	2,895
10	20	6,80	2,70
11	25	6,585	2,485
12	30	6,425	2,325
13	35	6,35	2,25
14	40	6,28	2,18
15	50	6,18	2,08
16	60	6,08	1,98



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW14

Test Well: MW14

Test Conducted by: JIG & ISA

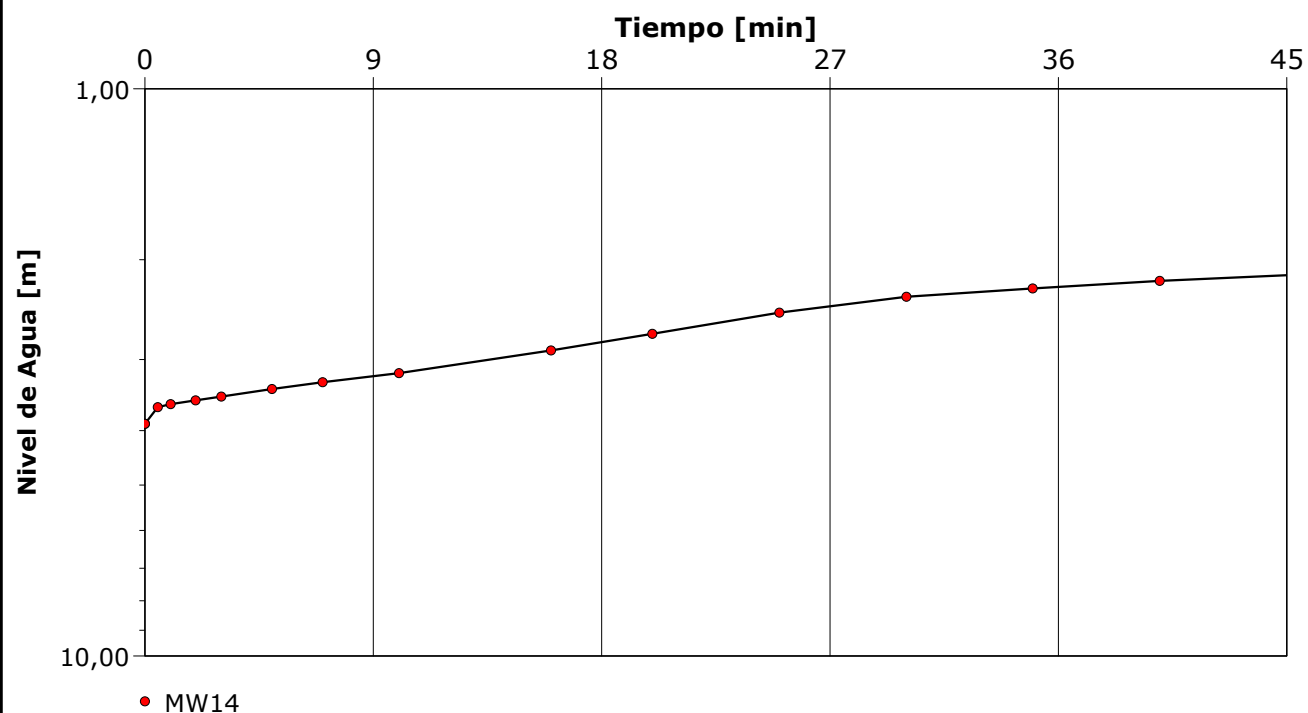
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Tiempo - Nivel Agua

Analysis Date: 21/09/2020

Aquifer Thickness: 0,20 m





Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW14

Test Well: MW14

Test Conducted by: JIG & ISA

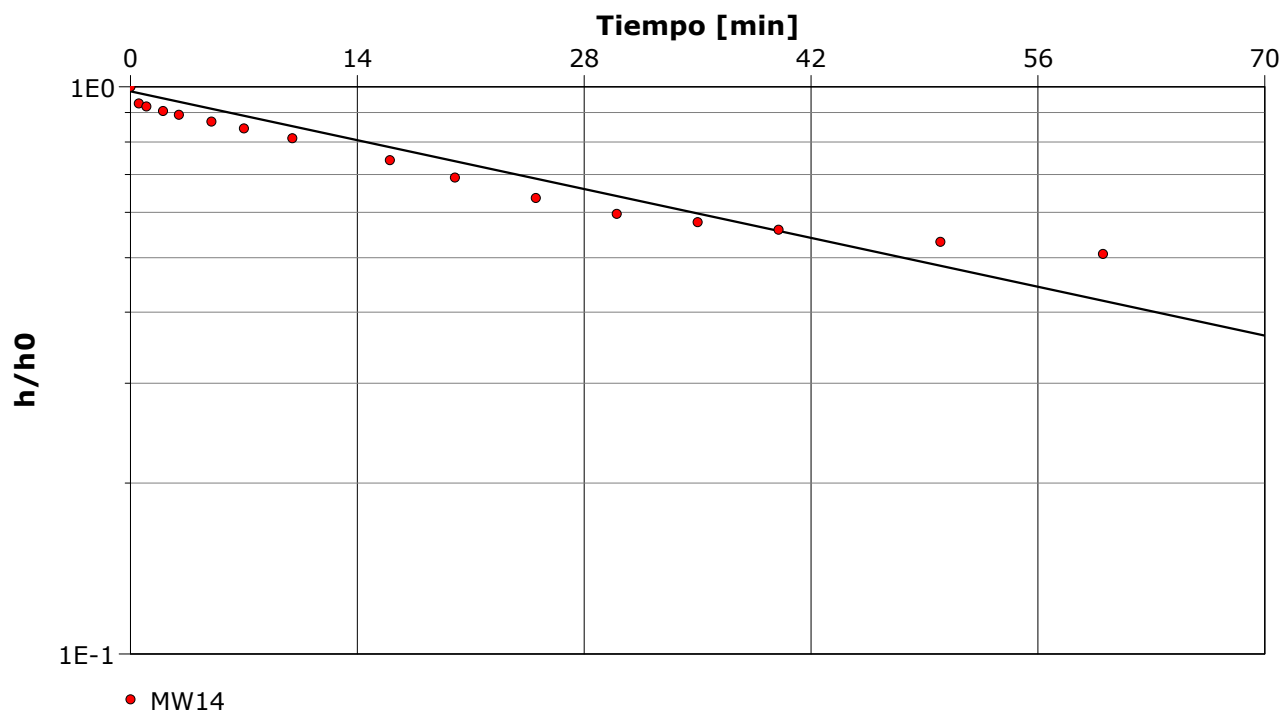
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Hvorslev

Analysis Date: 21/09/2020

Aquifer Thickness: 0,20 m



Calculation using Hvorslev

Observation Well

Hydraulic Conductivity
[m/d]

MW14

$1,02 \times 10^{-2}$

Descensos muy lineales a lo largo del ensayo. Parámetros hidráulicos del acuífero superficial (discontinuo)



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliación Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW14

Test Well: MW14

Test Conducted by: JIG & ISA

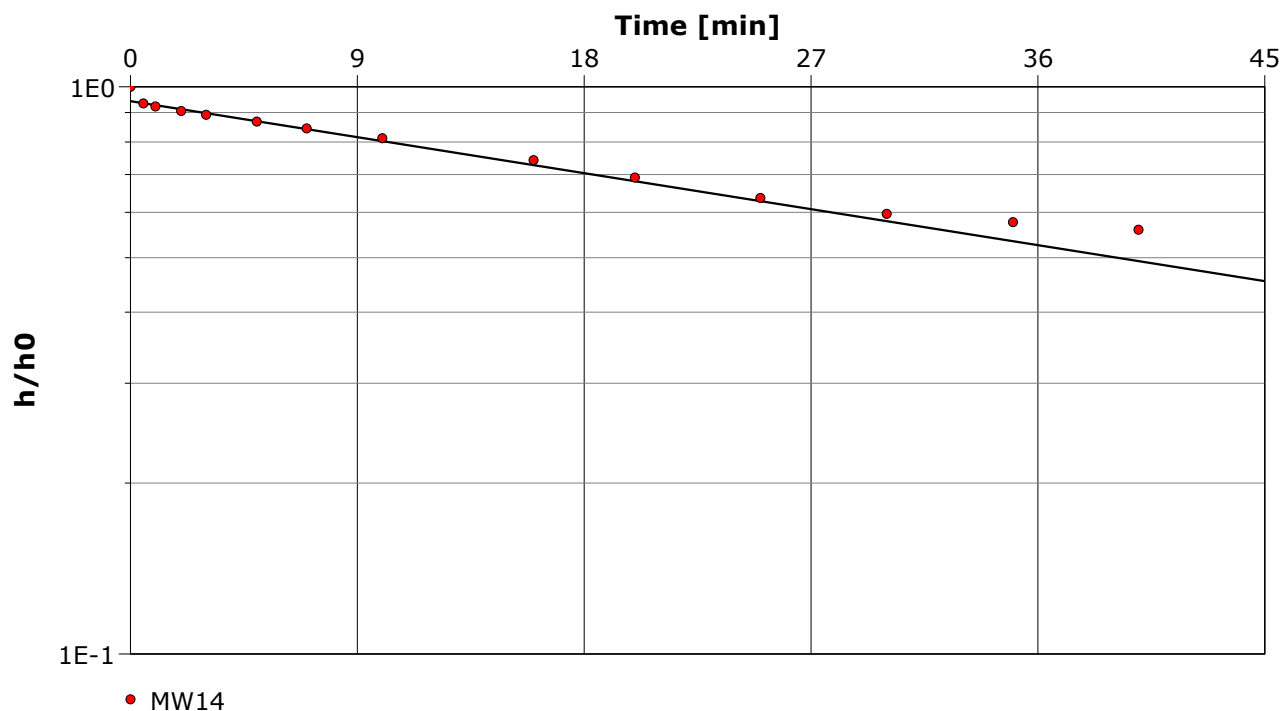
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Bouwer & Rice

Analysis Date: 21/09/2020

Aquifer Thickness: 0,20 m



Calculation using Bouwer & Rice

Observation Well

Hydraulic Conductivity
[m/d]

MW14

$9,07 \times 10^{-3}$

Descensos muy lineales a lo largo del ensayo. Parámetros hidráulicos del acuífero superficial (discontinuo)



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW14

Test Well: MW14

Test Conducted by: JIG & ISA

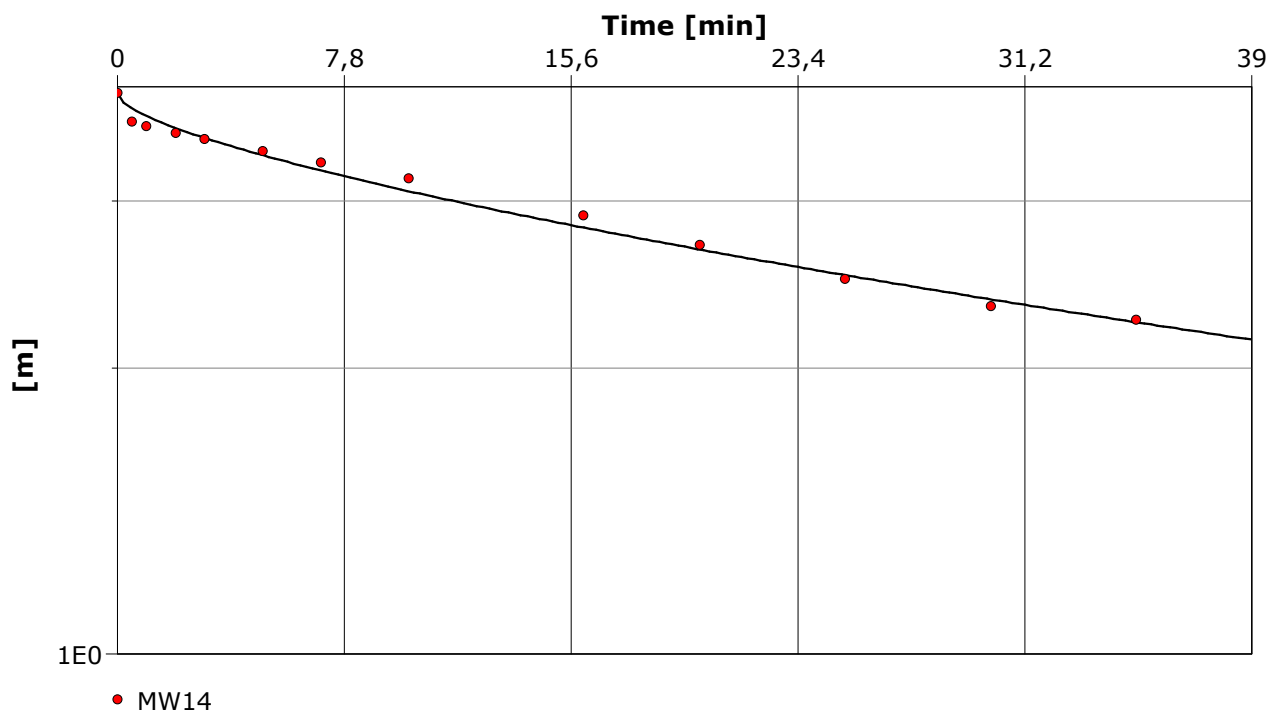
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Cooper-Bredehoeft-Papadopoulos

Analysis Date: 21/09/2020

Aquifer Thickness: 0,20 m



Calculation using Cooper-Bredehoeft-Papadopoulos

Observation Well	Transmissivity [m ² /d]	Hydraulic Conductivity [m/d]	Well-bore storage coefficient	
MW14	$1,21 \times 10^{-2}$	$6,03 \times 10^{-2}$	$2,92 \times 10^{-2}$	

Descensos muy lineales a lo largo del ensayo. Parámetros hidráulicos del acuífero superficial (discontinuo)



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Analyses Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW14

Test Well: MW14

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Aquifer Thickness: 0,20 m

	Analysis Name	Analysis Performed	Analysis Date	Method name	Well	T [m ² /d]	K [m/d]	S
1	Hvorslev	JIG & ISA	21/09/2020	Hvorslev	MW14		$1,02 \times 10^{-2}$	
2	Bouwer & Rice	JIG & ISA	21/09/2020	Bouwer & Rice	MW14		$9,07 \times 10^{-3}$	
3	Cooper-Bredehoeft	JIG & ISA	21/09/2020	Cooper-Bredehoeft	MW14	$1,21 \times 10^{-2}$	$6,03 \times 10^{-2}$	$2,92 \times 10^{-2}$



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Water Level Data

Page 1 of 1

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW17

Test Well: MW17

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Water level at t=0 [m]: 6,60

Static Water Level [m]: 3,35

Water level change at t=0 [m]: 3,25

	Time [min]	Water Level [m]	WL Change [m]
1	0	6,60	3,25
2	0,5	5,85	2,50
3	1	5,755	2,405
4	2	5,585	2,235
5	3	5,415	2,065
6	5	5,06	1,71
7	7	4,69	1,34
8	10	4,20	0,85
9	13	3,885	0,535
10	16	3,68	0,33
11	20	3,53	0,18



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW17

Test Well: MW17

Test Conducted by: JIG & ISA

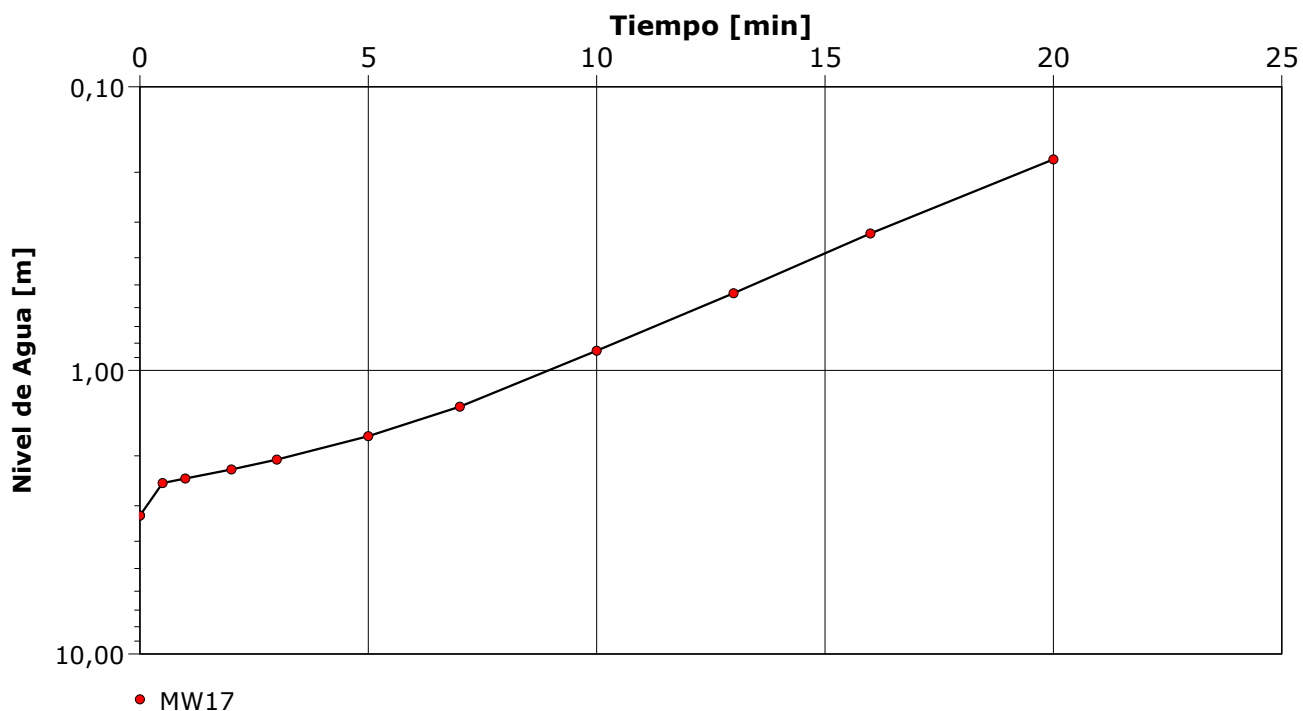
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Tiempo - Nivel Agua

Analysis Date: 21/09/2020

Aquifer Thickness: 0,90 m





ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW17

Test Well: MW17

Test Conducted by: JIG & ISA

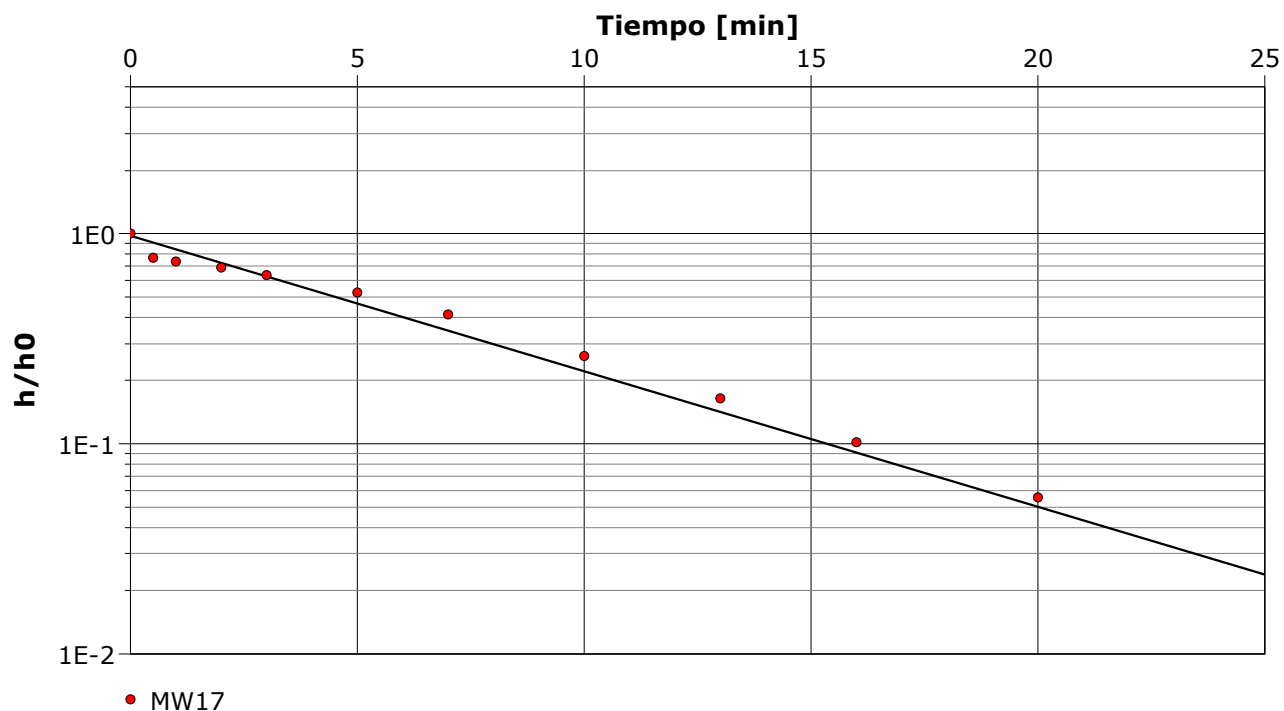
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Hvorslev

Analysis Date: 21/09/2020

Aquifer Thickness: 0,90 m



Calculation using Hvorslev

Observation Well

Hydraulic Conductivity
[m/d]

MW17

$1,24 \times 10^{-1}$

Los parámetros hidráulicos de este punto, corresponden al acuífero profundo, de tipo semiconfinado.



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW17

Test Well: MW17

Test Conducted by: JIG & ISA

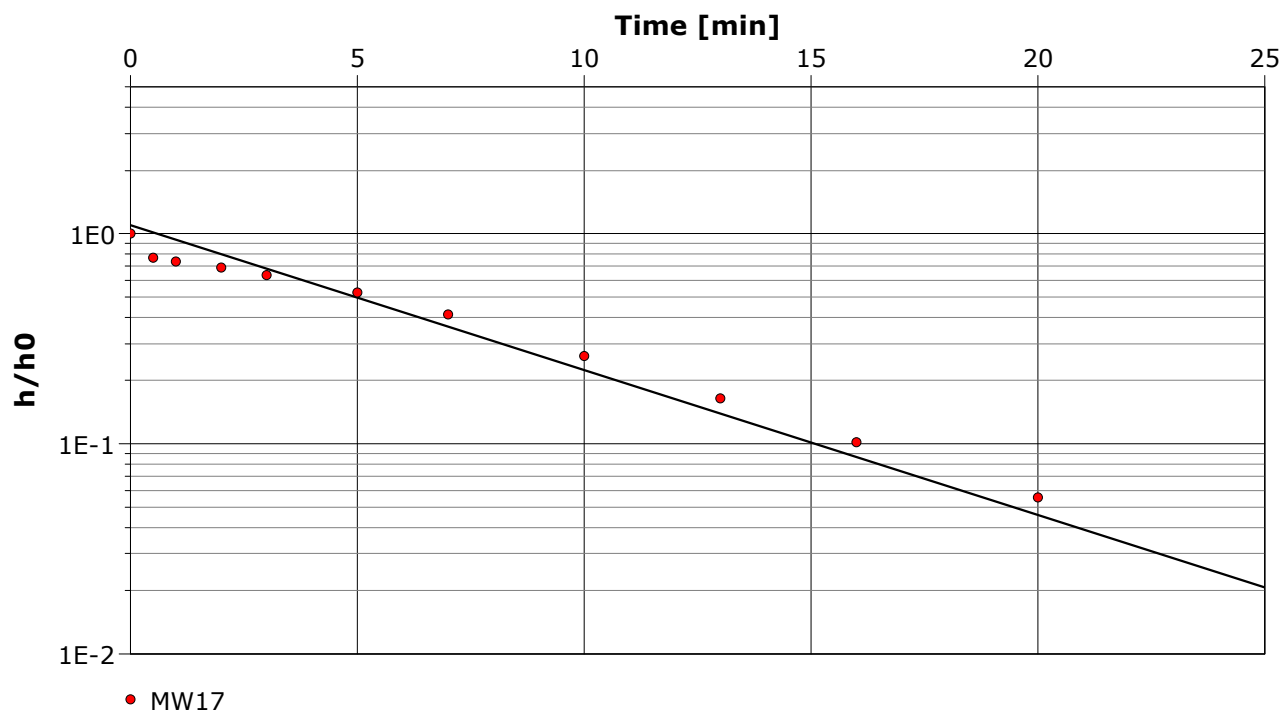
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Bouwer & Rice

Analysis Date: 21/09/2020

Aquifer Thickness: 0,90 m



Calculation using Bouwer & Rice

Observation Well

Hydraulic Conductivity
[m/d]

MW17

$1,02 \times 10^{-1}$



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW17

Test Well: MW17

Test Conducted by: JIG & ISA

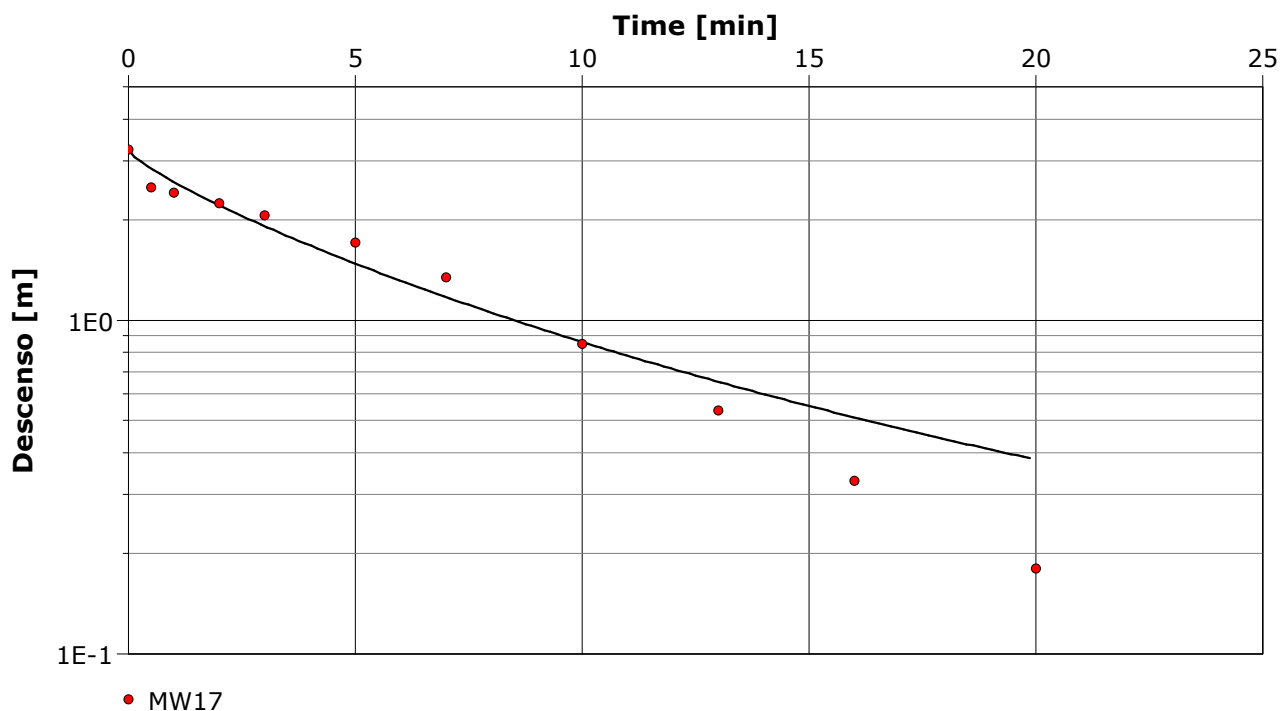
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Cooper-Bredehoeft-Papadopoulos

Analysis Date: 21/09/2020

Aquifer Thickness: 0,90 m



Calculation using Cooper-Bredehoeft-Papadopoulos

Observation Well	Transmissivity [m ² /d]	Hydraulic Conductivity [m/d]	Well-bore storage coefficient	
MW17	$2,21 \times 10^{-1}$	$2,46 \times 10^{-1}$	$3,93 \times 10^{-3}$	

Los parámetros hidráulicos de este punto, corresponden al acuífero profundo, de tipo semiconfinado.



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Analyses Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW17

Test Well: MW17

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Aquifer Thickness: 0,90 m

	Analysis Name	Analysis Performed	Analysis Date	Method name	Well	T [m ² /d]	K [m/d]	S
1	Hvorslev	JIG & ISA	21/09/2020	Hvorslev	MW17		$1,24 \times 10^{-1}$	
2	Bouwer & Rice	JIG & ISA	21/09/2020	Bouwer & Rice	MW17		$1,02 \times 10^{-1}$	
3	Cooper-Bredehoeft	JIG & ISA	21/09/2020	Cooper-Bredehoeft	MW17	$2,21 \times 10^{-1}$	$2,46 \times 10^{-1}$	$3,93 \times 10^{-3}$



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Water Level Data

Page 1 of 1

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW27

Test Well: MW27

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Water level at t=0 [m]: 7,40

Static Water Level [m]: 4,38

Water level change at t=0 [m]: 3,02

	Time [min]	Water Level [m]	WL Change [m]
1	0	7,40	3,02
2	0,5	7,32	2,94
3	1	7,295	2,915
4	2	7,225	2,845
5	3	7,155	2,775
6	5	7,005	2,625
7	7	6,875	2,495
8	10	6,69	2,31
9	13	6,50	2,12
10	16	6,315	1,935
11	20	6,035	1,655
12	25	5,685	1,305
13	30	5,35	0,97
14	40	4,90	0,52



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW27

Test Well: MW27

Test Conducted by: JIG & ISA

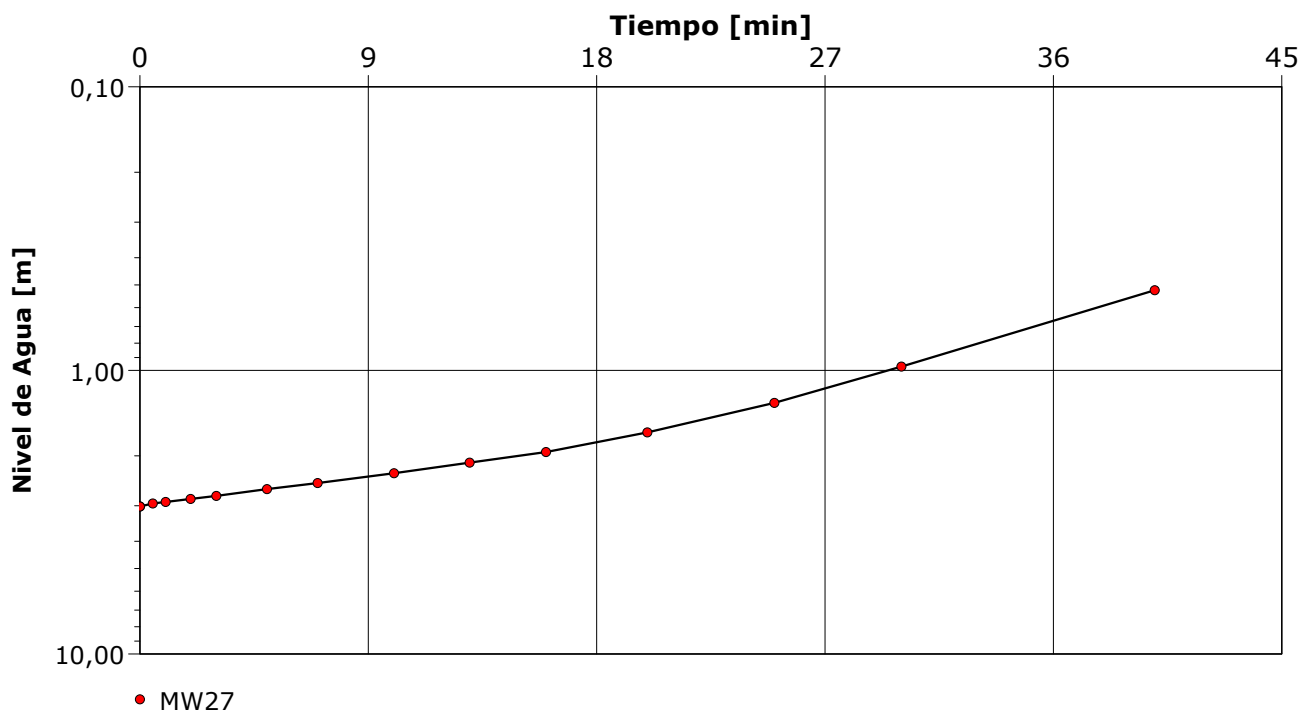
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Tiempo - Nivel Agua

Analysis Date: 21/09/2020

Aquifer Thickness: 1,50 m





ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW27

Test Well: MW27

Test Conducted by: JIG & ISA

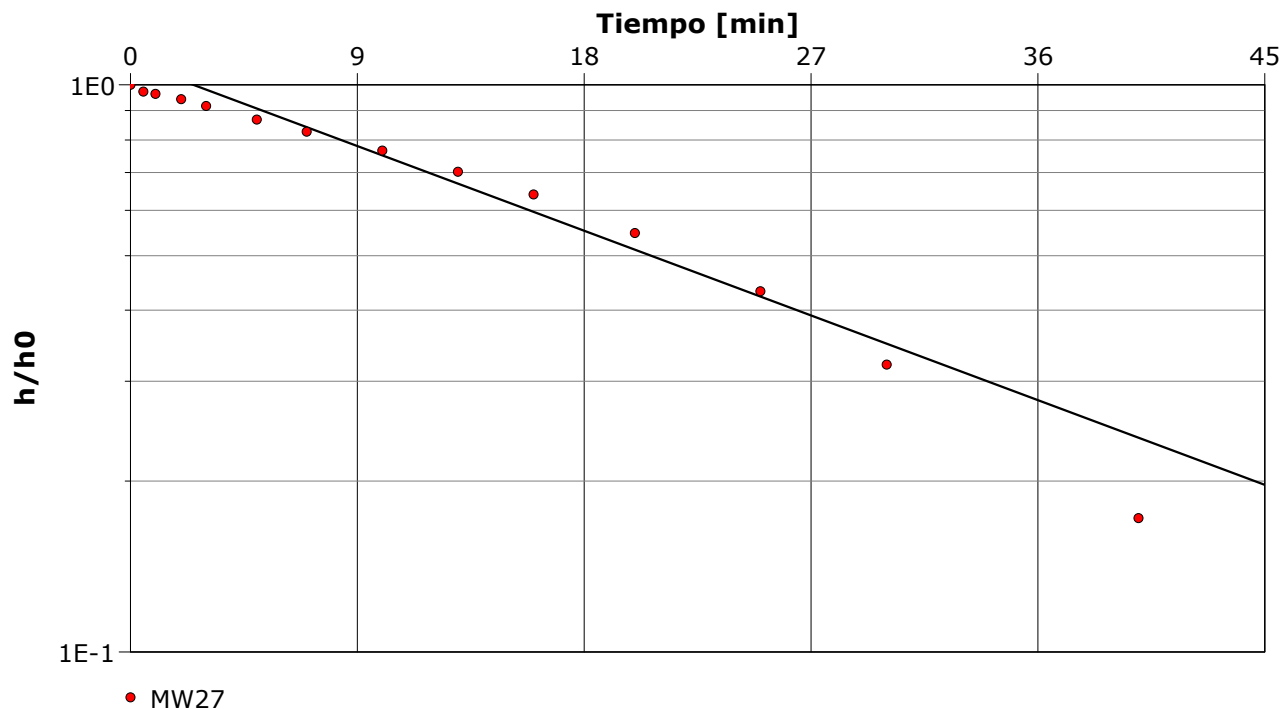
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Hvorslev

Analysis Date: 21/09/2020

Aquifer Thickness: 1,50 m



Calculation using Hvorslev

Observation Well

Hydraulic Conductivity
[m/d]

MW27

$2,76 \times 10^{-2}$

Descensos muy lineales a lo largo del ensayo. Parámetros hidráulicos del acuífero superficial (discontinuo)



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW27

Test Well: MW27

Test Conducted by: JIG & ISA

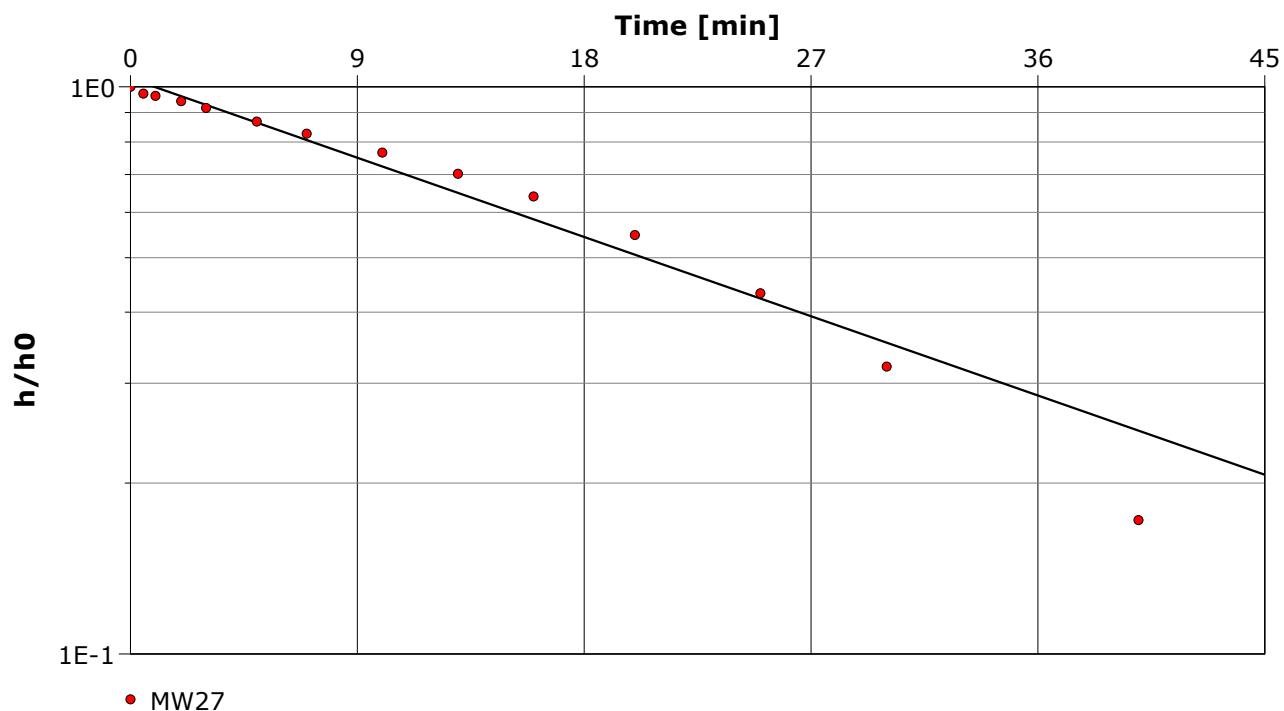
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Bouwer & Rice

Analysis Date: 21/09/2020

Aquifer Thickness: 1,50 m



Calculation using Bouwer & Rice

Observation Well

Hydraulic Conductivity
[m/d]

MW27

$1,99 \times 10^{-2}$

Descensos muy lineales a lo largo del ensayo. Parámetros hidráulicos del acuífero superficial (discontinuo)



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test Analysis Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW27

Test Well: MW27

Test Conducted by: JIG & ISA

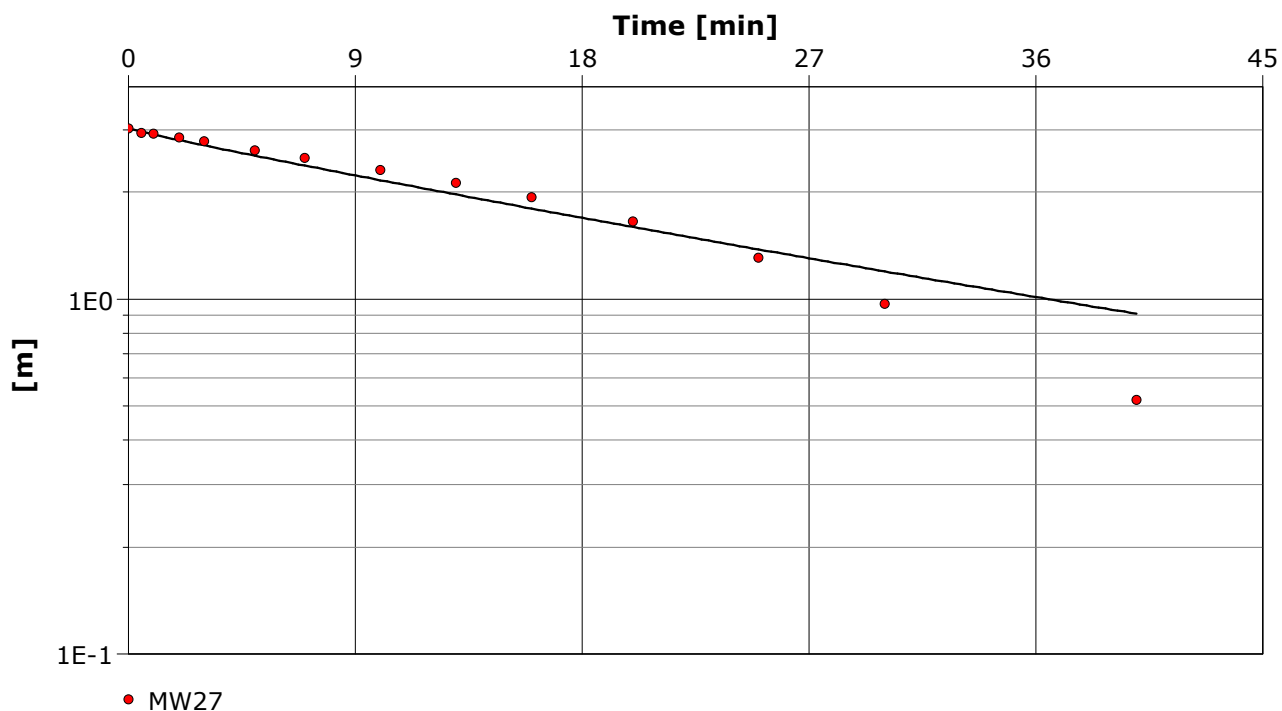
Test Date: 10/09/2020

Analysis Performed by: JIG & ISA

Cooper-Bredehoeft-Papadopoulos

Analysis Date: 21/09/2020

Aquifer Thickness: 1,50 m



Calculation using Cooper-Bredehoeft-Papadopoulos

Observation Well	Transmissivity [m ² /d]	Hydraulic Conductivity [m/d]	Well-bore storage coefficient	
MW27	$1,29 \times 10^{-1}$	$8,59 \times 10^{-2}$	$5,69 \times 10^{-8}$	

Descensos muy lineales a lo largo del ensayo. Parámetros hidráulicos del acuífero superficial (discontinuo)



ESTUDIOS Y SOLUCIONES AMBIENTALES

Slug Test - Analyses Report

Project: Ampliacion Investigación, PAU 5. Parla (Madrid)

Number: JIG-004/20 PAU

Client: Junta de Compensación PAU 5

Location: Plaza San Juan, 4, 2º B

Slug Test: Slug Test MW27

Test Well: MW27

Test Conducted by: JIG & ISA

Test Date: 10/09/2020

Aquifer Thickness: 1,50 m

	Analysis Name	Analysis Performed	Analysis Date	Method name	Well	T [m²/d]	K [m/d]	S
1	Hvorslev	JIG & ISA	21/09/2020	Hvorslev	MW27		$2,76 \times 10^{-2}$	
2	Bouwer & Rice	JIG & ISA	21/09/2020	Bouwer & Rice	MW27		$1,99 \times 10^{-2}$	
3	Cooper-Bredehoeft	JIG & ISA	21/09/2020	Cooper-Bredehoeft	MW27	$1,29 \times 10^{-1}$	$8,59 \times 10^{-2}$	$5,69 \times 10^{-8}$