

Source:
Wells and water level contours from Coffey.
Imagery map from Bing (capture date unknown).

coffey
A TETRA TECH COMPANY

Date: 23.05.2017
Project: 754-GEOTABTF10294AA
File Name: UTAF_IDFP1_F01.06b_GIS

Metro Trains Melbourne Pty Ltd

Additional Hydrogeological and Geotechnical Investigation

METRO

Reduced groundwater levels and inferred groundwater contours - Upper Tertiary Aquifer

Figure No: 1.6b

MXD Reference: 10294_UTAF_IDFP1_GIS01.06b_v0_3

335,500 335,750 336,000 336,250 336,500

5,781,250 5,781,000 5,780,750 5,780,500 5,780,250

N

0 m 100

Scale 1:4,000
Page size: A3
Projection: GDA 1994 MGA Zone 55

Coonara Ave
Catron St
James St
Seaford North Reserve
Charles St
Harold St
Park St
Victor Ave
Eel Race Drain
Broughton St
Railway Pde
Seaford Station
Station St
McKenzie St
McKenzie St
Nepean Hwy
Pier
Seaford Beach
McRae St
McRae St
Hazel St
Mitchell St
Austin Rd
Chapman Ave
Kelvin Ave
Admans Ave
Ilma Ct
Robinsons Rd
Beckwith Grv
Myra St
Arden Ct
Erwin Dr
Scott St
Johnstone St
Weatherston Rd
Seaford Rd
Seaford Rd
Bayside Grv
Martin St
Wise Ave
Elsie Ave
Mahoney Cres
Elsie Ave
Fortescue Ave
Levuka St
ID43-GWBH02
(-0.24)

Port Phillip Bay

0 km 5

LEGEND

Well ID
(reduced water level in mAHD)

MXD Reference: 10294_UMTD_IDFP2_GIS01.07c_v0_3

Source:
Well from Coffey.
Imagery map from Bing (capture date unknown).

coffey
A TETRA TECH COMPANY

Date: 23.05.2017
Project: 754-GEOTABTF10294AA
File Name: UMTD_IDFP2_F01.07c_GIS

Metro Trains Melbourne Pty Ltd

Additional Hydrogeological and Geotechnical Investigation

METRO

Reduced groundwater levels and inferred groundwater contours - Upper Mid-Tertiary Aquitard

Figure No: **1.7c**



Source:
Wells and water level contours from Coffey.
Imagery map from Bing (capture date unknown).

coffey
A TETRA TECH COMPANY

Date: 23.05.2017
Project: 754-GEOTABTF10294AA
File Name: 10294_QA_ID44_F01.08a_GIS

Metro Trains Melbourne Pty Ltd

Additional Hydrogeological and Geotechnical Investigation

METRO

Reduced groundwater levels and inferred groundwater contours - Quaternary Aquifer

Figure No: **1.8a**

MXD Reference: I:\10294_QA_ID44_GIS\01.08a_v0_3



Source:
Well from Coffey.
Imagery map from Bing (capture date unknown).

coffey
A TETRA TECH COMPANY

Date: 23.05.2017
Project: 754-GEOTABTF10294AA
File Name: 10294_UTAF_ID44_F01.08b_GIS

Metro Trains Melbourne Pty Ltd

Additional Hydrogeological and Geotechnical Investigation

METRO

Reduced groundwater levels and inferred groundwater contours - Upper Tertiary Aquifer

Figure No: **1.8b**

MXD Reference: 10294_UTAF_ID44_GIS0108b_v0_3



Source:
Well from Coffey.
Imagery map from Bing (capture date unknown).

coffey
A TETRA TECH COMPANY

Date: 23.05.2017
Project: 754-GEOTABTF10294AA
File Name: 10294_LTA_ID44_F01.08c_GIS

Metro Trains Melbourne Pty Ltd

Additional Hydrogeological and Geotechnical Investigation

METRO

Reduced groundwater levels and inferred groundwater contours - Lower Mid-Tertiary Aquifer

Figure No: 1.8c

MXD Reference: 10294_LTA_ID44_GIS01.08c_v0_3

Appendix A – Bore Construction Licences

Works Licence ID:

WLE067179

Printed on: 10 Feb 2017 9:59:22 am

COPY OF RECORD IN THE VICTORIAN WATER REGISTER

LICENCE TO CONSTRUCT WORKS

under Section 67 of the Water Act 1989

The information in this copy of record is as recorded at the time of printing. Current information should be obtained by a search of the register. The State of Victoria does not warrant the accuracy or completeness of this information and accepts no responsibility for any subsequent release, publication or reproduction of this information.

This licence does not remove the need to apply for any authorisation or permission necessary under any other Act of Parliament with respect to anything authorised by the works licence.

Water used under this licence is not fit for any use that may involve human consumption, directly or indirectly, without first being properly treated.

This licence is not to be interpreted as an endorsement of the design and/or construction of any works (including dams). The Authority does not accept any responsibility or liability for any suits or actions arising from injury, loss, damage or death to person or property which may arise from the maintenance, existence or use of the works.

Each person named as a licence holder is responsible for ensuring all the conditions of this licence are complied with.

This licence authorises its holders to construct the described works, subject to the conditions.

Licence Holder(s)

DALE SCOTT MCKENZIE of LEVEL 1, 436 JOHNSTON STREET ABBOTSFORD VIC 3067

Licence Contact Details

DS MCKENZIE	LEVEL 1, 436 JOHNSTON STREET ABBOTSFORD VIC 3067

Licence Details

Expiry date	10 Feb 2018
Status	Active
Authority	Southern Rural Water
Name of waterway or aquifer	NA for construct/decommission
Water system	Unincorporated (GMU)

Summary of Licensed Works

The details in this section are a summary only. They are subject to the conditions specified in this licence.

Works ID	*Works type*	*Use of water*
WRK097794	Bore	Investigation
WRK097795	Bore	Investigation
WRK097796	Bore	Investigation
WRK097797	Bore	Investigation
WRK097798	Bore	Investigation
WRK097799	Bore	Investigation
WRK097800	Bore	Investigation
WRK097801	Bore	Investigation
WRK098289	Bore	Investigation
WRK098290	Bore	Investigation
WRK098291	Bore	Investigation
WRK098292	Bore	Investigation
WRK098293	Bore	Investigation
WRK098294	Bore	Investigation
WRK098295	Bore	Investigation
WRK098854	Bore	Investigation
WRK098855	Bore	Investigation
WRK098856	Bore	Investigation
WRK098857	Bore	Investigation

Description of Licensed Works

WORKS ID WRK097794

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
334998.368	5785466.105	Zone 55

Other land description

95 C3

Property address

Location(s) in or near BONBEACH, Parish: Lyndhurst

Description of Licensed Works

WORKS ID WRK097795

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
334952.683	5785451.121	Zone 55

Other land description
95 C3

Property address
Location(s) in or near BONBEACH, Parish: Lyndhurst

Description of Licensed Works

WORKS ID WRK097796

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
334905.956	5785438.115	Zone 55

Other land description
95 C3

Property address
Location(s) in or near BONBEACH, Parish: Lyndhurst

Description of Licensed Works

WORKS ID WRK097797

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
335517.084	5785343.237	Zone 55

Land description
Volume 11041 Folio 707
Lot RES1 of Plan PS509287Q

Description of Licensed Works

WORKS ID WRK097798

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
335509.764	5785358.082	Zone 55

Other land description
95 C3

Property address
Location(s) in or near BONBEACH, Parish: Lyndhurst

Description of Licensed Works

WORKS ID WRK097799

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
333947.960	5788222.951	Zone 55

Land description

Property address
THE ESPLANADE EDITHVALE 3196

Description of Licensed Works

WORKS ID WRK097800

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
333896.513	5788196.842	Zone 55

Other land description
95 C3

Property address
Location(s) in or near BONBEACH, Parish: Lyndhurst

Description of Licensed Works

WORKS ID WRK097801

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
334369.533	5788339.027	Zone 55

Other land description

95 C3

Property address

Location(s) in or near BONBEACH, Parish: Lyndhurst

Description of Licensed Works

WORKS ID WRK098289

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
330135.195	5794373.133	Zone 55

Land description

Volume 2145 Folio 874
Lot 3 of Plan TP429679D

Description of Licensed Works

WORKS ID WRK098290

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
329096.311	5796361.220	Zone 55

Other land description
95 C3

Property address
Location(s) in or near BONBEACH, Parish: Lyndhurst

Description of Licensed Works

WORKS ID WRK098291

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
335095.337	5785468.190	Zone 55

Other land description
95 C3

Property address
Location(s) in or near BONBEACH, Parish: Lyndhurst

Description of Licensed Works

WORKS ID WRK098292

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
329987.981	5794148.929	Zone 55

Other land description
95 C3

Property address
Location(s) in or near BONBEACH, Parish: Lyndhurst

Description of Licensed Works

WORKS ID WRK098293

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
329974.963	5794149.650	Zone 55

Other land description
95 C3

Property address
Location(s) in or near BONBEACH, Parish: Lyndhurst

Description of Licensed Works

WORKS ID WRK098294

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
330083.040	5794473.033	Zone 55

Land description
Volume 1624 Folio 764
Lot 1 of Plan TP599248E

Description of Licensed Works

WORKS ID WRK098295

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
334372.747	5788329.095	Zone 55

Other land description
95 C3

Property address
Location(s) in or near BONBEACH, Parish: Lyndhurst

Description of Licensed Works

WORKS ID WRK098854

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
329104.352	5796359.393	Zone 55

Other land description
95 C3

Property address
Location(s) in or near BONBEACH, Parish: Lyndhurst

Description of Licensed Works

WORKS ID WRK098855

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
328994.748	5795780.924	Zone 55

Other land description
95 C3

Property address
Location(s) in or near BONBEACH, Parish: Lyndhurst

Description of Licensed Works

WORKS ID WRK098856

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
329003.788	5795779.118	Zone 55

Other land description
95 C3

Property address
Location(s) in or near BONBEACH, Parish: Lyndhurst

Description of Licensed Works

WORKS ID WRK098857

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
334063.828	5788183.435	Zone 55

Other land description

95 C3

Property address

Location(s) in or near BONBEACH, Parish: Lyndhurst

Related Instruments

Related entitlements	Nil
Related water-use entities	Nil

Application History

Reference	*Type*	*Status*	*Lodged date*	*Approved date*	*Recorded date*
WLV703902	Modify	Approved	10 Feb 2017	10 Feb 2017	
WLV703733	Modify	Approved	12 Jan 2017	12 Jan 2017	
WLI605223	Issue	Approved	09 Dec 2016	09 Dec 2016	

Conditions

Licence WLE067179 is subject to the following conditions:

Siting and construction

1 The bore(s) must be drilled at the location specified in the application approved by the Authority.

2 If after drilling the bore is considered unsatisfactory a replacement bore may be drilled on the land specified in the licence.

Preventing pollution

3 All earthworks must be carried out, and all drilling fluids and waters produced during construction and development must be disposed of, in ways that avoid contaminating native vegetation, waterways, aquifers, the riparian environment, the riverine environment or other people's property.

4 Construction must stop immediately if the Authority reasonably believes that fuel, lubricant, drilling fluid, soil or water produced during construction and development is at risk of being spilled into native vegetation, waterways, aquifers, the riparian environment, the riverine environment or other people's property.

5 The licence holder must construct and maintain bund walls, in accordance with the timeframe, specifications, guidelines or standards prescribed by the Authority, to prevent fuel, lubricant, drilling fluid, soil or water produced during construction and development from being spilled into native vegetation, waterways, aquifers, the riparian environment, the riverine environment or other people's property.

Construction standards

6 The bore(s) must be constructed, and where relevant decommissioned, in accordance with the Minimum Construction Requirements for Water Bores in Australia, Edition 3 or its successor.

Drilling licence and supervision requirements

7 The bore(s) must be constructed by, or under the direct supervision of, a driller licensed under the Water Act 1989 and endorsed as a [DrillerClass] driller, with appropriate endorsements.

8 If artesian pressure is expected or encountered, then a driller licensed under the Water Act 1989, and endorsed as a class 3 driller, must install casing in the bore(s) to a suitable depth, and in a suitable manner, to prevent its outbreak. A suitable valve must also be fitted to the bore.

Bore completion report

9 A Bore Completion Report must be submitted to the Authority within 28 working days of the bore(s) being completed.

Protecting water resources

10 At the completion of drilling, and before the drilling rig leaves the site, all bore(s) must be decommissioned so as to eliminate physical hazards, conserve aquifer yield, prevent groundwater contamination and prevent the intermingling of desirable and undesirable waters.

11 The bore(s) must be located at least 30 metres from any authority's channel, reserve or easement unless authorised by the Authority.

Protecting water quality

12 Drilling must not exceed the maximum depth.

13 The bore(s) must be constructed so as to prevent aquifer contamination caused by vertical flow outside the casing.

14 If two or more aquifers are encountered, the bore(s) must be constructed to ensure that an impervious seal is made and maintained between each aquifer to prevent aquifer connection through vertical flow outside the casing; under no circumstances are two or more aquifers to be screened within the one bore or in any other manner to allow connection between them.

15 Boreheads must be constructed, to ensure that no flood water, surface runoff or potential subsurface contaminated soakage can enter the bore or bore annulus.

Fees and charges

16 The licence holder must, when requested by the Authority, pay all fees, costs and other charges under the Water Act 1989 in respect of this licence.

END OF COPY OF RECORD

Works Licence ID:

WLE067643

Printed on: 10 Feb 2017 10:08:46 am

COPY OF RECORD IN THE VICTORIAN WATER REGISTER

LICENCE TO CONSTRUCT WORKS

under Section 67 of the Water Act 1989

The information in this copy of record is as recorded at the time of printing. Current information should be obtained by a search of the register. The State of Victoria does not warrant the accuracy or completeness of this information and accepts no responsibility for any subsequent release, publication or reproduction of this information.

This licence does not remove the need to apply for any authorisation or permission necessary under any other Act of Parliament with respect to anything authorised by the works licence.

Water used under this licence is not fit for any use that may involve human consumption, directly or indirectly, without first being properly treated.

This licence is not to be interpreted as an endorsement of the design and/or construction of any works (including dams). The Authority does not accept any responsibility or liability for any suits or actions arising from injury, loss, damage or death to person or property which may arise from the maintenance, existence or use of the works.

Each person named as a licence holder is responsible for ensuring all the conditions of this licence are complied with.

This licence authorises its holders to construct the described works, subject to the conditions.

Licence Holder(s)

DALE SCOTT MCKENZIE of LEVEL 1, 436 JOHNSTON STREET ABBOTSFORD VIC 3067

Licence Contact Details

DS MCKENZIE	LEVEL 1, 436 JOHNSTON STREET ABBOTSFORD VIC 3067

Licence Details

Expiry date	10 Feb 2018
Status	Active
Authority	Southern Rural Water
Name of waterway or aquifer	NA for construct/decommission
Water system	Frankston (GMU)

Summary of Licensed Works

The details in this section are a summary only. They are subject to the conditions specified in this licence.

Works ID	*Works type*	*Use of water*
WRK098858	Bore	Investigation
WRK098859	Bore	Investigation
WRK098860	Bore	Investigation
WRK098861	Bore	Investigation
WRK098862	Bore	Investigation
WRK098863	Bore	Investigation
WRK098864	Bore	Investigation
WRK098865	Bore	Investigation
WRK098866	Bore	Investigation
WRK098867	Bore	Investigation
WRK098868	Bore	Investigation
WRK098869	Bore	Investigation
WRK098870	Bore	Investigation
WRK098871	Bore	Investigation
WRK098872	Bore	Investigation
WRK098873	Bore	Investigation
WRK098874	Bore	Investigation
WRK098875	Bore	Investigation

Description of Licensed Works

WORKS ID WRK098858

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
335705.497	5778258.346	Zone 55

Other land description

95 D4

Property address

Location(s) in or near SEAFORD, Parish: Frankston

Description of Licensed Works

WORKS ID WRK098859

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
335705.368	5778264.344	Zone 55

Other land description

95 D4

Property address

Location(s) in or near SEAFORD, Parish: Frankston

Description of Licensed Works

WORKS ID WRK098860

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
335875.976	5780328.273	Zone 55

Land description

Volume 3571 Folio 145
Lot 1 of Plan TP446126B

Description of Licensed Works

WORKS ID WRK098861

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
335877.148	5780320.298	Zone 55

Land description

Volume 3571 Folio 145
Lot 1 of Plan TP446126B

Description of Licensed Works

WORKS ID WRK098862

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
335877.653	5780343.311	Zone 55

Land description

Volume 3571 Folio 145
Lot 1 of Plan TP446126B

Description of Licensed Works

WORKS ID WRK098863

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
336386.956	5780239.255	Zone 55

Other land description

95 D4

Property address

Location(s) in or near SEAFORD, Parish: Frankston

Description of Licensed Works

WORKS ID WRK098864

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
336406.165	5780229.667	Zone 55

Other land description

95 D4

Property address

Location(s) in or near SEAFORD, Parish: Frankston

Description of Licensed Works

WORKS ID WRK098865

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
335666.318	5781054.857	Zone 55

Land description
Section A

Property address
1/10N NEPEAN HIGHWAY SEAFORD 3198

Description of Licensed Works

WORKS ID WRK098866

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
335665.383	5781051.836	Zone 55

Land description
Section A

Property address
1/10N NEPEAN HIGHWAY SEAFORD 3198

Description of Licensed Works

WORKS ID WRK098867

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
335875.872	5781030.362	Zone 55

Land description

Property address
69V YOUNG STREET FRANKSTON 3199

Description of Licensed Works

WORKS ID WRK098868

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
336341.728	5780993.378	Zone 55

Other land description
95 D4

Property address
Location(s) in or near SEAFORD, Parish: Frankston

Description of Licensed Works

WORKS ID WRK098869

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
336340.814	5780989.358	Zone 55

Other land description
95 D4

Property address
Location(s) in or near SEAFORD, Parish: Frankston

Description of Licensed Works

WORKS ID WRK098870

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
335692.130	5782086.549	Zone 55

Other land description
95 D4

Property address
Location(s) in or near SEAFORD, Parish: Frankston

Description of Licensed Works

WORKS ID WRK098871

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
335696.129	5782086.635	Zone 55

Other land description
95 D4

Property address
Location(s) in or near SEAFORD, Parish: Frankston

Description of Licensed Works

WORKS ID WRK098872

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
335702.127	5782086.764	Zone 55

Other land description
95 D4

Property address
Location(s) in or near SEAFORD, Parish: Frankston

Description of Licensed Works

WORKS ID WRK098873

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
335850.916	5782236.984	Zone 55

Land description

Property address

69V YOUNG STREET FRANKSTON 3199

Description of Licensed Works

WORKS ID WRK098874

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
336494.865	5782103.815	Zone 55

Other land description

95 D4

Property address

Location(s) in or near SEAFORD, Parish: Frankston

Description of Licensed Works

WORKS ID WRK098875

Works type	Bore
Works subtype	Drilled bore
Proposed maximum depth	Unrestricted

Works location

Easting	*Northing*	*Zone MGA*
336492.930	5782100.773	Zone 55

Other land description

95 D4

Property address

Location(s) in or near SEAFORD, Parish: Frankston

Related Instruments

Related entitlements Nil

Related water-use entities Nil

Application History

Reference	*Type*	*Status*	*Lodged date*	*Approved date*	*Recorded date*
WLI605557	Issue	Approved	10 Feb 2017	10 Feb 2017	

Conditions

Licence WLE067643 is subject to the following conditions:

Siting and construction

1 The bore(s) must be drilled at the location specified in the application approved by the Authority.

2 If after drilling the bore is considered unsatisfactory a replacement bore may be drilled on the land specified in the licence.

Preventing pollution

3 All earthworks must be carried out, and all drilling fluids and waters produced during construction and development must be disposed of, in ways that avoid contaminating native vegetation, waterways, aquifers, the riparian environment, the riverine environment or other people's property.

4 Construction must stop immediately if the Authority reasonably believes that fuel, lubricant, drilling fluid, soil or water produced during construction and development is at risk of being spilled into native vegetation, waterways, aquifers, the riparian environment, the riverine environment or other people's property.

5 The licence holder must construct and maintain bund walls, in accordance with the timeframe, specifications, guidelines or standards prescribed by the Authority, to prevent fuel, lubricant, drilling fluid, soil or water produced during construction and development from being spilled into native vegetation, waterways, aquifers, the riparian environment, the riverine environment or other people's property.

Construction standards

6 The bore(s) must be constructed, and where relevant decommissioned, in accordance with the Minimum Construction Requirements for Water Bores in Australia, Edition 3 or its successor.

Drilling licence and supervision requirements

7 The bore(s) must be constructed by, or under the direct supervision of, a driller licensed under the Water Act 1989 and endorsed as a Class 1, 2, or 3 driller, with appropriate endorsements.

8 If artesian pressure is expected or encountered, then a driller licensed under the Water Act 1989, and endorsed as a class 3 driller, must install casing in the bore(s) to a suitable depth, and in a suitable manner, to prevent its outbreak. A suitable valve must also be fitted to the bore.

Bore completion report

9 A Bore Completion Report must be submitted to the Authority within 28 working days of the bore(s) being completed.

Protecting water resources

10 At the completion of drilling, and before the drilling rig leaves the site, all bore(s) must be decommissioned so as to eliminate physical hazards, conserve aquifer yield, prevent groundwater contamination and prevent the intermingling of desirable and undesirable waters.

11 The bore(s) must be located at least 30 metres from any authority's channel, reserve or easement unless authorised by the Authority.

Protecting water quality

12 Drilling must not exceed the maximum depth.

13 The bore(s) must be constructed so as to prevent aquifer contamination caused by vertical flow outside the casing.

14 If two or more aquifers are encountered, the bore(s) must be constructed to ensure that an impervious seal is made and maintained between each aquifer to prevent aquifer connection through vertical flow outside the casing; under no circumstances are two or more aquifers to be screened within the one bore or in any other manner to allow connection between them.

15 Boreheads must be constructed, to ensure that no flood water, surface runoff or potential subsurface contaminated soakage can enter the bore or bore annulus.

Fees and charges

16 The licence holder must, when requested by the Authority, pay all fees, costs and other charges under the Water Act 1989 in respect of this licence.

END OF COPY OF RECORD

Appendix B – Borehole Logs

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Engineering Log - Borehole

Hole ID.	***ARM-GWBH01***
sheet:	1 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Armstrongs Road, Seaford***
date started:	***06 Feb 2017***
date completed:	***06 Feb 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 335838; N: 5782323 (MGA94) | surface elevation: 5.10 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ARM-GWBH01	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD			E		5			SP	**FILL: SILTY SAND**: fine to coarse grained, dark brown, with some fine to coarse grained gravel (basalt), trace of cobbles, boulders and rootlets.	M	MD	**FILL**
									SAND: fine to medium grained, grey, pale grey, pale brown.			**QUATERNARY SANDS**
			E			1.0						
					4				becoming pale brown			
			E			2.0			becoming orange brown, trace of fines			
					3							
			E			3.0						
					2							
N		06/02/17				4.0			becoming fine to medium grained, pale brown, trace of fines			
					1							
ADV						5.0			with some fines			
					0							
						6.0		SM	**SILTY SAND**: fine to medium grained, dark grey, dark brown, trace of shell fragments.	M - W	L	**SWAMP DEPOSITS**
					-1							
						7.0			becoming fine grained sand			
					-2							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
10-Oct-12 water level on date shown
water inflow
water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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Engineering Log - Borehole

Hole ID.	**ARM-GWBH01**
sheet:	2 of 2
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Armstrongs Road, Seaford**
date started:	**06 Feb 2017**
date completed:	**06 Feb 2017**
logged by:	**KG**
checked by:	**KJ**

position: E: 335838; N: 5782323 (MGA94) | surface elevation: 5.10 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V N					-3			SM	**SILTY SAND**: fine to medium grained, dark grey, dark brown, trace of shell fragments. *(continued)*	M	L	**SWAMP DEPOSITS**
									becoming dark grey mottled pale grey	W		
					-4	9.0		CH	**CLAY**: high plasticity, pale grey.	M	VSt	**TERTIARY BRIGHTON GROUP**
					-5	10.0			Borehole ARM-GWBH01 terminated at 10.00 m Target depth			**well details:** bore construction license: WRK098873 drilling company: Drillworx driller: J.Boyd **backfill details:** 0.0-3.0m: Grout 3.0-4.0m: Bentonite 4.0-7.5m: Sand 7.5-10.0m: Bentonite **standpipe piezo. ARM-GWBH01 details:** 4.5-7.5m: screen
					-6	11.0						
					-7	12.0						
					-8	13.0						
					-9	14.0						
					-10	15.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ARM-GWBH02***
sheet:	1 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Armstrongs Road, Seaford***
date started:	***20 Feb 2017***
date completed:	***20 Feb 2017***
logged by:	***SJS***
checked by:	***KJ***

position: E: 335709; N: 5782088 (MGA94) | surface elevation: 2.17 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ARM-GWBH02	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
NDD					2				**FILL: Sandy GRAVEL**: fine to coarse grained, brown, fine to coarse grained sand.	M	MD / D	**FILL**
						1.0		SP	**SAND**: fine to medium grained, pale brown.		MD	**QUATERNARY SANDS**
					1							
					0	2.0						
										W		
					-1	3.0						
N					-2	4.0						
ADV						5.0		SC	**CLAYEY SAND**: fine to medium grained, grey, medium plasticity, with some shell fragments.			**TERTIARY BRIGHTON GROUP**
					-3							
					-4	6.0						
					-5	7.0						
		20/02/2017										

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	**ARM-GWBH02**
sheet:	2 of 2
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Armstrongs Road, Seaford**
date started:	**20 Feb 2017**
date completed:	**20 Feb 2017**
logged by:	**SJS**
checked by:	**KJ**

position: E: 335709; N: 5782088 (MGA94) | surface elevation: 2.17 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V N					-6			SC	**CLAYEY SAND**: fine to medium grained, grey, medium plasticity, with some shell fragments. *(continued)*	W	MD	**TERTIARY BRIGHTON GROUP**
					-7	9.0						
					-8	10.0			Borehole ARM-GWBH02 terminated at 10.00 m Target depth			**well details:** bore construction license: WRK098870 drilling company: Drillworx driller: J.Boyd **backfill details:** 0.0-5.5m: Grout 5.5-6.5m: Bentonite 6.5-10.0m: Sand **standpipe piezo. ARM-GWBH02 details:** 7.0-10.0m: screen
					-9	11.0						
					-10	12.0						
					-11	13.0						
					-12	14.0						
					-13	15.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ARM-GWBH03***
sheet:	1 of 3
project no.	***GEOTABTF10294AA***
client: ***Metro Trains Melbourne***	date started: ***20 Feb 2017***
principal: ***Level Crossing Removal Authority***	date completed: ***23 Feb 2017***
project: ***LCRP-CTF***	logged by: ***SJS***
location: ***Armstrongs Road, Seaford***	checked by: ***KJ***

position: E: 335707; N: 5782088 (MGA94) | surface elevation: 2.40 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests	ARM-GWBH03	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
NDD					2				**FILL: Sandy GRAVEL**: fine to coarse grained, brown.	M	D	**FILL**
					1	1.0		SP	**SAND**: fine to medium grained, pale brown.		MD	**QUATERNARY SANDS**
N		23/02/17 ▽			0	2.0						
					-1	3.0				W		
AD/V					-2	4.0						
					-3	5.0						
					-4	6.0			with some shell fragments			
					-5	7.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ARM-GWBH03***
sheet:	2 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Armstrongs Road, Seaford***
date started:	***20 Feb 2017***
date completed:	***23 Feb 2017***
logged by:	***SJS***
checked by:	***KJ***

position: E: 335707; N: 5782088 (MGA94) | surface elevation: 2.40 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
AD/V N				-6	9.0		SC	**CLAYEY SAND**: fine to medium grained, brown-grey, with some shell fragments.	W	MD	**TERTIARY BRIGHTON GROUP**
				-7							
				-8	10.0						
				-9	11.0						
				-10	12.0						
				-11	13.0						
				-12	14.0		CI-CH	**Sandy CLAY**: medium to high plasticity, red and grey, fine to medium grained sand.		St	
				-13	15.0						

method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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Engineering Log - Borehole

Hole ID.	***ARM-GWBH03***
sheet:	3 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Armstrongs Road, Seaford***
date started:	***20 Feb 2017***
date completed:	***23 Feb 2017***
logged by:	***SJS***
checked by:	***KJ***

position: E: 335707; N: 5782088 (MGA94) | surface elevation: 2.40 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V N					-14	17.0		CI-CH	**Sandy CLAY**: medium to high plasticity, red and grey, fine to medium grained sand. *(continued)*	W	St	**TERTIARY BRIGHTON GROUP** 100mm hard band- not evident in return cuttings
					-15	18.0						
					-16	19.0						
					-17	20.0						
					-18	21.0			Borehole ARM-GWBH03 terminated at 20.00 m Target depth			**well details:** bore construction license: WRK098871 drilling company: Drillworx driller: J.Boyd **backfill details:** 0.0-14.0m: Grout 14.0-15.0m: Bentonite 15.0-20.0m: Sand **standpipe piezo. ARM-GWBH03 details:** 16.0-19.0m: screen
					-19	22.0						
					-20	23.0						
					-21							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ARM-GWBH04***
sheet:	1 of 5
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Armstrongs Road, Seaford***
date started:	***20 Feb 2017***
date completed:	***10 Mar 2017***
logged by:	***SJS***
checked by:	***KJ***

position: E: 335703; N: 5782088 (MGA94) | surface elevation: 2.58 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 150 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ARM-GWBH04	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD					2				**FILL: GRAVEL**: fine to coarse grained, brown.	M	MD - D	**FILL**
						1.0		SP	**SAND**: fine to medium grained, pale brown.		MD	**QUATERNARY SANDS**
					1	2.0						
					0	3.0		SM	**SILTY SAND**: fine grained, dark grey, trace of shell fragments.			
ADV		Not Observable	SPT 7, 11, 9 N*=20		-1	4.0						
					-2	5.0		SM	**SILTY SAND**: fine to coarse grained, dark grey. with some bands of high plasticity clay, black, distinct sandfurows odour		L	**SWAMP DEPOSITS**
			SPT 1, 0, 2 N*=2		-3	6.0						
			U63		-4	7.0		CH	**CLAY**: high plasticity, black.		S	
					-5			SM	**SILTY SAND**: fine grained, dark grey, with some fibrous, green-grey peat.		MD	

N

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	**ARM-GWBH04**
sheet:	2 of 5
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Armstrongs Road, Seaford**
date started:	**20 Feb 2017**
date completed:	**10 Mar 2017**
logged by:	**SJS**
checked by:	**KJ**

position: E: 335703; N: 5782088 (MGA94) | surface elevation: 2.58 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 150 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V		Not Observable			-6			SM	**SILTY SAND**: fine grained, dark grey, with some fibrous, green-grey peat. *(continued)*	M	MD	**SWAMP DEPOSITS**
			U63					CI-CH	**Sandy CLAY**: medium to high plasticity, grey, mottled brown, fine grained.		VSt	**BRIGHTON GROUP DEPOSITS**
					-7	9.0		SC	**CLAYEY SAND**: fine to medium grained, grey, high plasticity.		MD	
			SPT 6, 9, 11 N*=20		-8	10.0		CH	**Silty CLAY**: high plasticity, grey, mottled brown.		St	
			SPT 5, 8, 23 N*=31		-9	11.0					H	
					-10	12.0		SC	**CLAYEY SAND**: fine to medium grained, brown with dark brown bands.	W	D	
W					-11	13.0		CI-CH	**Silty CLAY**: medium to high plasticity, pale grey.		VSt	
			SPT 10, 12, 34 N*=46		-12	14.0			gravel band,200mm			
					-13	15.0		SC	**CLAYEY SAND**: fine to medium grained, pale grey.		D	

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	**ARM-GWBH04**
sheet:	3 of 5
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Armstrongs Road, Seaford**
date started:	**20 Feb 2017**
date completed:	**10 Mar 2017**
logged by:	**SJS**
checked by:	**KJ**

position: E: 335703; N: 5782088 (MGA94) | surface elevation: 2.58 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 150 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C		Not Observable	SPT 6, 6, 13 N*=19		-14			SC	**CLAYEY SAND**: fine to medium grained, pale grey. *(continued)*	W	D	**BRIGHTON GROUP DEPOSITS**
			U63		-15	17.0		CH	**CLAY**: high plasticity, pale grey.		VSt - H	HP 370 - 540 kPa
			U63		-16	18.0						
			U63		-17	19.0						HP 350 - 400 kPa
			U63		-18	20.0			becoming red-brown, with some cemented sand nodules		St - VSt	HP 180 - 230 kPa
			U63		-19	21.0		SC	**CLAYEY SAND**: fine to medium grained, pale grey, with some mottles brown and some clay bands.		MD	push tube stopped on cemented sands
			U63		-20	22.0			cemented sand layer - 50 to 80mm thick			push tube stopped on cemented sands
					-21	23.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	**ARM-GWBH04**
sheet:	4 of 5
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Armstrongs Road, Seaford**
date started:	**20 Feb 2017**
date completed:	**10 Mar 2017**
logged by:	**SJS**
checked by:	**KJ**

position: E: 335703; N: 5782088 (MGA94) | surface elevation: 2.58 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 150 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C		Not Observable	SPT 17, 29, 38 N*=67		-22 -23 -24 -25 -26 -27 -28 -29	25.0 26.0 27.0 28.0 29.0 30.0 31.0		SC	**CLAYEY SAND**: fine to medium grained, pale grey, with some mottles brown and some clay bands. *(continued)*	W	MD	**BRIGHTON GROUP DEPOSITS**
								Cl	**Silty CLAY**: medium plasticity, pale grey - brown, fine to coarse grained sand, with some fragments of cemented sand up to medium grained gravel size.		St - VSt	
			SPT 12, 13, 19 N*=32									
			SPT 10, 22, 20 N*=42									
			U63									HP 240 - 260 kPa
									Borehole ARM-GWBH04 terminated at 30.45 m Target stratum			**well details:** bore construction license: WRK098872 drilling company: Drillworx driller: R.Thorne **backfill details:** 0.0-18.9m: Grout 18.9-19.9m: Bentonite 19.9-25.4m: Sand 25.4-30.45m: Bentonite **standpipe piezo. ARM-GWBH04 details:**

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
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- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	**ARM-GWBH04**
sheet:	5 of 5
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Armstrongs Road, Seaford**
date started:	**20 Feb 2017**
date completed:	**10 Mar 2017**
logged by:	**SJS**
checked by:	**KJ**

position: E: 335703; N: 5782088 (MGA94) | surface elevation: 2.58 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 150 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
				-30	33.0						21.4-24.4m: screen
				-31	34.0						
				-32	35.0						
				-33	36.0						
				-34	37.0						
				-35	38.0						
				-36	39.0						
				-37							

method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ARM-GWBH05***
sheet:	1 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Armstrongs Road, Seaford***
date started:	***01 Feb 2017***
date completed:	***02 Feb 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 336494; N: 5782114 (MGA94) | surface elevation: 0.65 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests	ARM-GWBH05	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
NDD					0	0.65			**TOPSOIL: SILT**: low liquid limit, dark grey, dark brown, orange-brown mottling, organic odour, rootlets throughout, trace of fine sand.	M	F	**TOPSOIL**
								SM	**SILTY SAND**: fine to coarse grained, brown, dark brown, dark grey, trace of fine to medium grained gravel.		L	**SWAMP DEPOSITS**
					-1	1.0		CH	**Silty CLAY**: high plasticity, black, dark grey, high organic content.		St	
N		Not Observable				2.0		ML	**Sandy SILT**: low liquid limit, dark grey, fine to coarse grained sand.	W	F	
ADV					-2	3.0						
					-3	4.0						
					-4	5.0		CH	**Sandy CLAY**: high plasticity, dark grey, fine to medium grained sand.	M - W	St	
					-5	6.0		SM	**SILTY SAND**: fine to coarse grained, pale grey.	W	MD	**TERTIARY BRIGHTON GROUP**
					-6	7.0		CH	**Silty CLAY**: high plasticity, pale grey, with some fine to coarse grained sand.	M - W	St - VSt	
					-7							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ARM-GWBH05***
sheet:	2 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Armstrongs Road, Seaford***
date started:	***01 Feb 2017***
date completed:	***02 Feb 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 336494; N: 5782114 (MGA94) | surface elevation: 0.65 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V N		Not Observable			-8 -9	9.0		CH	**Silty CLAY**: high plasticity, pale grey, with some fine to coarse grained sand. *(continued)* grading to sandy clay, occasionally iron cemented sand	M - W	St - VSt	**TERTIARY BRIGHTON GROUP**
					-10 -11 -12 -13 -14 -15	10.0 11.0 12.0 13.0 14.0 15.0			Borehole ARM-GWBH05 terminated at 10.00 m Target depth			**well details:** bore construction license: WRK098874 drilling company: Drillworx driller: J.Boyd **backfill details:** 0.0-3.0m: Grout 3.0-4.0m: Bentonite 4.0-7.5m: Sand 7.5-10.0m: Bentonite **standpipe piezo. ARM-GWBH05 details:** 4.5-7.5m: screen

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ARM-GWBH06***
sheet:	1 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
date started:	***06 Feb 2017***
principal:	***Level Crossing Removal Authority***
date completed:	***07 Feb 2017***
project:	***LCRP-CTF***
logged by:	***LW***
location:	***Armstrongs Road, Seaford***
checked by:	***KJ***

position: E: 336495; N: 5782092 (MGA94) | surface elevation: 1.09 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: None | hole diameter : 200 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests	ARM-GWBH06	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
NDD					1				**TOPSOIL: SILT**: low liquid limit, dark grey, dark brown, orange brown mottling, organic odour, rootlets.	M	F	**TOPSOIL**
								SM	**SILTY SAND**: fine to coarse grained, brown, dark brown, dark grey, trace of fine to coarse grained gravel.		MD	**SWAMP DEPOSITS**
					0	1.0		ML	**Clayey SILT**: low to medium liquid limit, dark black, high organic conent.		St	
AD/V					-1	2.0						
			SPT 0, 0, 0 N*=0					CI	**CLAY**: medium plasticity, dark grey to black, strong "rotten egg", sulphur dioxide odour, trace of fine grained sand, shell fragments and brown plant (grass like) matter, trace of interbedded fine grained, grey silty sand layers (approximately 30mm thick spaced 200mm apart).	M	VS	SPT sunk 1.3m under own weight
					-2	3.0		SM	**SILTY SAND**: fine to medium grained, dark grey, distinct "rotten egg", sulphur dioxide odour, with some black clay pockets/bands, trace of shell fragments.	W	L	
			SPT 2, 3, 2 N*=5		-3	4.0		SC	**CLAYEY SAND**: fine to coarse grained, dark blue - grey, low plasticity.	M	MD	
C		Not Observable			-4	5.0			becoming grey mottled brown with some sand pockets			
			SPT 3, 4, 6 N*=10		-5	6.0						
			SPT 3, 5, 6 N*=11		-6	7.0		CI	**Silty CLAY**: medium plasticity, grey mottled brown, trace of fine grained sand and coarse grained sand bands.	M	St	
W								SP	**SAND**: medium to coarse grained, grey to dark grey, trace of fines.	W	D	**TERTIARY BRIGHTON GROUP**

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	**ARM-GWBH06**
sheet:	2 of 3
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Armstrongs Road, Seaford**
date started:	**06 Feb 2017**
date completed:	**07 Feb 2017**
logged by:	**LW**
checked by:	**KJ**

position: E: 336495; N: 5782092 (MGA94) | surface elevation: 1.09 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: None | hole diameter : 200 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C		Not Observable	SPT 11, 16, 18 N*=34		-7			SP	**SAND**: medium to coarse grained, grey to dark grey, trace of fines. *(continued)*	W	D	**TERTIARY BRIGHTON GROUP**
					-8	9.0						
			SPT 3, 7, 9 N*=16		-9	10.0		MH	**Sandy SILT**: high liquid limit, grey mottled dark grey, fine to coarse grained sand.	M	VSt	
			U63		-10	11.0						350/350mm
					-11	12.0		CL	**CLAY**: low plasticity, red mottled grey and brown-orange, with some moderately cemented bands (20-50mm spacing) and fine to coarse gravel.	M	H	HP 140 kPa HP 250 kPa HP 490 kPa
			SPT 18, 25, 26 N*=51		-12	13.0						
					-13	14.0		CI	**Silty CLAY**: medium plasticity, pale blue - grey, trace of fine grained sand, coarse grained sand pockets and weakly cemented, dark red pockets/bands.	M	St - VSt	
			SPT 10, 16, 17 N*=33		-14	15.0						

method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
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- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
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- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	**ARM-GWBH06**
sheet:	3 of 3
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Armstrongs Road, Seaford**
date started:	**06 Feb 2017**
date completed:	**07 Feb 2017**
logged by:	**LW**
checked by:	**KJ**

position: E: 336495; N: 5782092 (MGA94) | surface elevation: 1.09 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: None | hole diameter : 200 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C		Not Observable	U63		-15			CI	**Silty CLAY**: medium plasticity, pale blue - grey, trace of fine grained sand, coarse grained sand pockets and weakly cemented, dark red pockets/bands. *(continued)*	M	St - VSt	**TERTIARY BRIGHTON GROUP** 150/350mm
			SPT 10, 15, 29 N*=44		-16	17.0			becoming grey mottled red, dark red and dark brown			
					-17	18.0						
			SPT 9, 17, 17 N*=34		-18	19.0		CL	**Sandy CLAY**: low plasticity, grey mottled brown, fine grained.	M	St	
					-19	20.0		ML	**Clayey SILT**: low liquid limit, brown, trace of fine grained sand.	M	VSt	
			SPT 16, 16, 22 N*=38		-20	21.0			Borehole ARM-GWBH06 terminated at 20.95 m Target depth			**well details:** bore construction license: WRK098875 drilling company: Drillworx driller: R.Thorne **backfill details:** 0.0-12.0m: Grout 12.0-14.0m: Bentonite 14.0-18.5m: Sand 18.5-20.95m: Bentonite **standpipe piezo. ARM-GWBH06 details:** 14.5-17.5m: screen
					-21	22.0						
					-22	23.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remoulded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID03-GWBH05***
sheet:	1 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
date started:	***25 Jan 2017***
principal:	***Level Crossing Removal Authority***
date completed:	***25 Jan 2017***
project:	***LCRP-CTF***
logged by:	***KG***
location:	***Balcombe Road, Mentone***
checked by:	***KJ***

position: E: 329934; N: 5794144 (MGA94) | surface elevation: 16.16 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests	ID03-GWBH05	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
NDD					16				**FILL: ASPHALT**: 20mm.	D	VD	**FILL**
								SP	**FILL: Sandy GRAVEL**: fine to coarse grained, grey, fine to coarse grained sand.	M	MD	**QUATERNARY SANDS**
								CH	**SAND**: fine to medium grained, pale brown, pale grey.		St	**TERTIARY BRIGHTON GROUP**
					15	1.0			**CLAY**: high plasticity, pale grey and orange-brown, trace of fine grained sand.			
					14	2.0						
					13	3.0			becoming pale grey, mottled orange-brown			
N					12	4.0		CH	**Sandy CLAY**: high plasticity, pale grey, mottled orange-brown, fine to medium grained sand.		VSt	
ADV					11	5.0		CH	**Silty CLAY**: high plasticity, orange-brown, trace of fine grained sand.			
		25/01/18			10	6.0		SM	**SILTY SAND**: fine to coarse grained, pale grey.	W	MD	
								SC	**CLAYEY SAND**: fine to coarse grained, pale grey, pale brown, medium plasticity.			
					9	7.0		SM	**SILTY SAND**: fine to coarse grained, pale brown, pale grey, with some clayey sand bands.			

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID03-GWBH05***
sheet:	2 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Balcombe Road, Mentone***
date started:	***25 Jan 2017***
date completed:	***25 Jan 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 329934; N: 5794144 (MGA94) | surface elevation: 16.16 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V N					8			SM	**SILTY SAND**: fine to coarse grained, pale brown, pale grey, with some clayey sand bands. *(continued)*	W	MD	**TERTIARY BRIGHTON GROUP**
					7	9.0						
					6	10.0			becoming fine to medium grained, pale grey			
					5	11.0						
					4	12.0						
					3	13.0						
					2	14.0						
					1	15.0			Borehole ID03-GWBH05 terminated at 15.00 m Target depth			**well details:** bore construction license: WRK098293 drilling company: Drillworx driller: J.Boyd **backfill details:** 0.0-10.5m: Grout 10.5-11.5m: Bentonite

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID03-GWBH05***
sheet:	3 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
date started:	***25 Jan 2017***
principal:	***Level Crossing Removal Authority***
date completed:	***25 Jan 2017***
project:	***LCRP-CTF***
logged by:	***KG***
location:	***Balcombe Road, Mentone***
checked by:	***KJ***

position: E: 329934; N: 5794144 (MGA94) | surface elevation: 16.16 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
				0							11.5-15.0m: Sand **standpipe piezo. ID03-GWBH05 details:** 12.0-15.0m: screen
				-1	17.0						
				-2	18.0						
				-3	19.0						
				-4	20.0						
				-5	21.0						
				-6	22.0						
				-7	23.0						

CDF_0_9_06_LIBRARY.GLB rev:AS Log COF PIEZOMETER GEOTABTF10294AA HYDRO.GPJ <<DrawingFile>> 23/05/2017 13:27

method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID03-GWBH06***
sheet:	1 of 4
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Balcombe Road, Mentone***
date started:	***25 Jan 2017***
date completed:	***22 Feb 2017***
logged by:	***KG/LW***
checked by:	***KJ***

position: E: 329932; N: 5794127 (MGA94) | surface elevation: 15.98 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID03-GWBH06	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD									**FILL: ASPHALT**: 20mm.	D	VD	**FILL**
								SP	**FILL: Sandy GRAVEL**: fine to coarse grained, grey, fine to coarse grained sand, 180mm.	M	MD	**QUATERNARY SANDS**
								CH	**SAND**: fine to medium grained, pale brown, pale grey.		St - VSt	**TERTIARY BRIGHTON GROUP**
					15	1.0			**Silty CLAY**: high plasticity, dark brown, orange-brown, trace of fine grained sand.			
AD/V					14	2.0						
								SP	**SAND**: fine grained, pale brown, brown.		D	
					13	3.0						
					12	4.0					VD	
			SPT 11, 22, 26 N*=48		11	5.0						
								SM	**SILTY SAND**: fine to coarse grained, pale grey, pale brown, mottled orange brown.			
W		Not Observable	SPT 14, 32, 40/130mm N*=R		10	6.0						
					9	7.0						
			SPT 15, 36, 50/110mm HB									

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	***ID03-GWBH06***
sheet:	2 of 4
project no.	***GEOTABTF10294AA***
client: ***Metro Trains Melbourne***	date started: ***25 Jan 2017***
principal: ***Level Crossing Removal Authority***	date completed: ***22 Feb 2017***
project: ***LCRP-CTF***	logged by: ***KG/LW***
location: ***Balcombe Road, Mentone***	checked by: ***KJ***

position: E: 329932; N: 5794127 (MGA94) | surface elevation: 15.98 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W N		Not Observable	N*=R					SP	**SAND**: fine to medium grained, pale grey, with some high plasticity clay and clayey pockets. *(continued)*	M - W	VD	**TERTIARY BRIGHTON GROUP**
			SPT 20, 45, 35/90mm N*=R		7	9.0						
			SPT 17, 17, 24 N*=41		6	10.0			becoming grey, with bands of fine grained, pale grey clayey sand		D - VD	
			SPT 13, 22, 31 N*=53		5	11.0			becoming fine to medium grained, grey with some coarse grained sand pockets and some fines		VD	
			SPT 12, 15, 17 N*=32		4	12.0						
			SPT 23, 35, 27 N*=62		3	13.0						
					2	14.0		SP	**SAND**: fine to coarse grained, grey.	W	VD	
					1	15.0		SC	**CLAYEY SAND**: fine grained, dark green-brown, medium plasticity.	M	D	
								SM	**SILTY SAND**: fine grained, dark green.	W		

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID03-GWBH06***
sheet:	3 of 4
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Balcombe Road, Mentone***
date started:	***25 Jan 2017***
date completed:	***22 Feb 2017***
logged by:	***KG/LW***
checked by:	***KJ***

position: E: 329932; N: 5794127 (MGA94) | surface elevation: 15.98 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W N		Not Observable	SPT 7, 13, 18 N*=31					SM	**SILTY SAND**: fine grained, dark green. *(continued)*	W	D	**TERTIARY BRIGHTON GROUP**
					-1	17.0						
			SPT 9, 13, 18 N*=31		-2	18.0			possibly clay layer (from cuttings)			
			U63		-3	19.0			trace of clay and shell fragments	M - W		
					-4	20.0			becoming dark grey-green, trace of shell fragments	M		
			SPT 10, 18, 20 N*=38		-5	21.0						
			SPT 23, 31, 39 N*=70		-6	22.0					VD	
			SPT 30, 47, 35/100mm N*=R		-7	23.0						

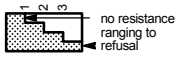
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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

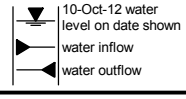
support
- M mud
- C casing
- N nil

penetration



no resistance ranging to refusal

water


10-Oct-12 water level on date shown
water inflow
water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remoulded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	**ID03-GWBH06**
sheet:	4 of 4
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Balcombe Road, Mentone**
date started:	**25 Jan 2017**
date completed:	**22 Feb 2017**
logged by:	**KG/LW**
checked by:	**KJ**

position: E: 329932; N: 5794127 (MGA94) | surface elevation: 15.98 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W N		Not Observable	SPT 18, 33, 40 N*=73		-9	25.0		SM	**SILTY SAND**: fine grained, dark green. *(continued)*	M	VD	**TERTIARY BRIGHTON GROUP**
			SPT 28, 44, 34 N*=78		-10	26.0						
			SPT 21, 30, 43 N*=73		-11	27.0						
			SPT 25, 42, 50 N*=92		-12	28.0						
					-13	29.0			with some pockets of shell fragments			
					-14	30.0			Borehole ID03-GWBH06 terminated at 29.95 m Target depth			**well details:** bore construction license: WRK098292 drilling company: Drillworx driller: R.Thorne **backfill details:** 0.0-23.5m: Grout 23.5-25.5m: Bentonite 25.5-29.95m: Sand **standpipe piezo. ID03-GWBH06 details:** 26.5-29.5m: screen
					-15	31.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID03-GWBH07***
sheet:	1 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Balcombe Road, Mentone***
date started:	***01 Feb 2017***
date completed:	***01 Feb 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 330114; N: 5794397 (MGA94) | surface elevation: 20.02 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID03-GWBH07	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD			E		20				**FILL: ASPHALT**: 20mm.	D	D - VD	**FILL**
			E						**FILL: SANDY GRAVEL**: fine to coarse grained, sub-angular to angular, dark grey, dark brown, fine grained sand, with some rootlets.			
			E		19	1.0			with some sub-rounded cobbles			
			E					CH	**CLAY**: high plasticity, pale grey, orange-brown, trace of fine grained gravel and fine grained sand.	D - M	St - VSt	**TERTIARY BRIGHTON GROUP**
			E		18	2.0						
										M		
					17	3.0						
N					16	4.0						
ADV					15	5.0		CI	**Silty CLAY**: medium plasticity, orange brown, mottled pale grey.			
									becoming pale grey, trace of fine grained sand	M - W		
					14	6.0						
					13	7.0			with some fine grained sand			

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remoulded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID03-GWBH07***
sheet:	2 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Balcombe Road, Mentone***
date started:	***01 Feb 2017***
date completed:	***01 Feb 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 330114; N: 5794397 (MGA94) | surface elevation: 20.02 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V N		01/02/17 ▽			12 11 10 9 8 7 6 5	9.0 10.0 11.0 12.0 13.0 14.0 15.0		SM	**SILTY SAND**: fine to medium grained, pale red, orange, mottled pale brown.	M - W	MD	**TERTIARY BRIGHTON GROUP**
								SP	**SAND**: fine to medium grained, brown, orange-brown, pale-brown, with some fines.			
								SM	**SILTY SAND**: fine to medium grained, brown, pale brown.	W	L	
								ML	**Sandy SILT**: low liquid limit, pale brown, mottled pale grey, orange, fine to coarse grained sand.		St	
									Borehole ID03-GWBH07 terminated at 15.00 m Target depth			**well details:** bore construction license: WRK098289 drilling company: Drillworx driller: J.Boyd **backfill details:** 0.0-6.5m: Grout 6.5-7.5m: Bentonite

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID03-GWBH07***
sheet:	3 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Balcombe Road, Mentone***
date started:	***01 Feb 2017***
date completed:	***01 Feb 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 330114; N: 5794397 (MGA94) | surface elevation: 20.02 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
				4							7.5-11.0m: Sand 11.0-15.0m: Bentonite **standpipe piezo. ID03-GWBH07 details:** 8.0-11.0m: screen
				3	17.0						
				2	18.0						
				1	19.0						
				0	20.0						
				-1	21.0						
				-2	22.0						
				-3	23.0						

method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID03-GWBH08***
sheet:	1 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Balcombe Road, Mentone***
date started:	***31 Jan 2017***
date completed:	***31 Jan 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 330068; N: 5794471 (MGA94) | surface elevation: 20.00 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 125 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests	ID03-GWBH08	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
NDD					20			SP	**FILL: ASPHALT**: 100mm.			**FILL**
									SAND: fine to medium grained, dark brown, grey, trace of fine grained gravel.	M	MD	**QUATERNARY SANDS**
					19	1.0			becoming fine to coarse grained sand			
								CH	**Silty CLAY**: high plasticity, orange-brown, mottled pale grey, pale brown, trace of fine grained sand.		St - VSt	**TERTIARY BRIGHTON GROUP**
					18	2.0						
					17	3.0						
N					16	4.0				D - M	VSt	
ADV									becoming medium plasticity, orange			
					15	5.0						
					14	6.0						
					13	7.0						
								ML	**Clayey SILT**: low liquid limit, orange brown, trace of fine grained sand.		St	

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID03-GWBH08***
sheet:	2 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Balcombe Road, Mentone***
date started:	***31 Jan 2017***
date completed:	***31 Jan 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 330068; N: 5794471 (MGA94) | surface elevation: 20.00 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 125 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V N		31/01/17			12 11 10 9 8 7 6 5	9.0 10.0 11.0 12.0 13.0 14.0 15.0		ML	**Clayey SILT**: low liquid limit, orange brown, trace of fine grained sand. *(continued)*	D - M	St	**TERTIARY BRIGHTON GROUP**
								SM	**SILTY SAND**: fine grained, pale brown. becoming pale grey, fine to coarse grained	W	MD	
									Borehole ID03-GWBH08 terminated at 15.00 m Target depth			**well details:** bore construction license: WRK098294 drilling company: Drillworx driller: J.Boyd **backfill details:** 0.0-10.5m: Grout 10.5-11.5m: Bentonite

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID03-GWBH08***
sheet:	3 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Balcombe Road, Mentone***
date started:	***31 Jan 2017***
date completed:	***31 Jan 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 330068; N: 5794471 (MGA94) | surface elevation: 20.00 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 125 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
				4							11.5-15.0m: Sand **standpipe piezo. ID03-GWBH08 details:** 12.0-15.0m: screen
				3	17.0						
				2	18.0						
				1	19.0						
				0	20.0						
				-1	21.0						
				-2	22.0						
				-3	23.0						

method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID13-GWBH05***
sheet:	1 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Charman Road, Cheltenham***
date started:	***25 Jan 2017***
date completed:	***25 Jan 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 329008; N: 5795781 (MGA94) | surface elevation: 37.81 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 125 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID13-GWBH05	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD					37	0.0			**TOPSOIL: SILT**: low liquid limit, dark grey, with some rootlets.	M	F	**TOPSOIL**
						1.0		SP	**SAND**: fine to medium grained, brown, pale brown.		MD	**QUATERNARY SANDS**
					36	2.0		SC	**CLAYEY SAND**: fine to medium grained, orange-brown, trace of gravel, sub-rounded to sub-angular.			**TERTIARY BRIGHTON GROUP**
					35	3.0		CH	**Sandy CLAY**: high plasticity, pale grey, orange-brown mottled dark red, fine to medium grained sand.		St	
					34	4.0			becoming fine to coarse grained sand			
AD/V	N				33	5.0			becoming orange-brown			
					32	6.0		SC	**CLAYEY SAND**: fine to coarse grained, orange-brown, mottled pale grey, medium plasticity.		D - VD	
					31	7.0		SM	**SILTY SAND**: fine to coarse grained, orange brown, mottled pale grey.	D - M		
					30			SC	**CLAYEY SAND**: fine to coarse grained, orange brown, mottled pale grey and dark red, medium plasticity.	D	VD	

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

coffey
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Engineering Log - Borehole

Hole ID.	***ID13-GWBH05***
sheet:	2 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Charman Road, Cheltenham***
date started:	***25 Jan 2017***
date completed:	***25 Jan 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 329008; N: 5795781 (MGA94) | surface elevation: 37.81 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 125 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V N		▽			29 28 27 26 25 24 23 22	9.0 10.0 11.0 12.0 13.0 14.0 15.0		SC	**CLAYEY SAND**: fine to coarse grained, orange brown, mottled pale grey and dark red, medium plasticity. *(continued)*	M	VD	**TERTIARY BRIGHTON GROUP**
									trace of high plasticity clay pockets, pale grey		D	
								SM	**SILTY SAND**: fine to medium grained, orange-brown, mottled grey.			
								ML	**Sandy SILT**: low liquid limit, orange-brown, fine to medium grained sand.		VSt	
									becoming fine grained sand			

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remoulded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID13-GWBH05***
sheet:	3 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Charman Road, Cheltenham***
date started:	***25 Jan 2017***
date completed:	***25 Jan 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 329008; N: 5795781 (MGA94) | surface elevation: 37.81 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 125 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V N		23/01/17			21			ML	**Sandy SILT**: low liquid limit, orange-brown, fine to medium grained sand. *(continued)* occasionaly pale brown	M	VSt	**TERTIARY BRIGHTON GROUP**
					20	17.0		ML	**SILT**: low liquid limit, orange-brown, trace of fine grained sand.			
					19	18.0						
					18	19.0		CL-CI	**Silty CLAY**: low to medium plasticity, orange-brown, with some fine grained sand. trace of fine to medium grained gravel, sub-angular			
					17	20.0			Borehole ID13-GWBH05 terminated at 20.00 m Target depth			**well details:** bore construction license: WRK098855 driller: J.Boyd **backfill details:** 0.0-12.0m: Grout 12.0-13.0m: Bentonite 13.0-16.5m: Sand 16.5-20.0m: Bentonite **standpipe piezo. ID13-GWBH05 details:** 13.5-16.5m: screen
					16	21.0						
					15	22.0						
					14	23.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID13-GWBH06***
sheet:	1 of 4
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Charman Road, Cheltenham***
date started:	***13 Feb 2017***
date completed:	***28 Feb 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 329009; N: 5795780 (MGA94) | surface elevation: 37.78 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: Polymer | hole diameter : 150 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests	ID13-GWBH06	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
NDD CASING ADV N		Not Observable	SPT 16, 22, 36 N*=58 SPT 17, 40/140mm N*=R SPT 19, 12/30mm HB		37 36 35 34 33 32 31 30	1.0 2.0 3.0 4.0 5.0 6.0 7.0		SP SC CH CL-CI SC	**TOPSOIL: SILT**: low liquid limit, dark grey, with some rootlets. **SAND**: fine to medium grained, brown, pale brown. **CLAYEY SAND**: fine to medium grained, orange, brown, medium plasticity, trace of fine to medium grained gravel, sub-rounded to sub-angular. **Silty CLAY**: high plasticity, orange, brown, mottled pale grey, dark red. **Sandy CLAY**: low to medium plasticity, orange-brown, pale grey, fine to coarse grained sand. **CLAYEY SAND**: fine to coarse grained, orange-brown, pale-brown, mottled pale grey, low plasticity. becoming dark red	M D - M	F MD H VD	**TOPSOIL** **QUATERNARY SANDS** **TERTIARY BRIGHTON GROUP**

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	**ID13-GWBH06**
sheet:	2 of 4
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Charman Road, Cheltenham**
date started:	**13 Feb 2017**
date completed:	**28 Feb 2017**
logged by:	**KG**
checked by:	**KJ**

position: E: 329009; N: 5795780 (MGA94) | surface elevation: 37.78 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: Polymer | hole diameter : 150 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V N		Not Observable	N*=R		29			SC	**CLAYEY SAND**: fine to coarse grained, orange-brown, pale-brown, mottled pale grey, low plasticity. *(continued)*	D - M	VD	**TERTIARY BRIGHTON GROUP**
			SPT 25, 50, 6/5mm HB N*=R		28	9.0			becoming orange, orange-brown, mottled pale grey			
			SPT 8, 21, 71/10mm HB N*=R		27	10.0						
			SPT 24, 47, 52 HB N*=99		26	11.0			becoming fine to medium grained, pale brown		D	
			SPT 18, 17, 24 N*=41		25	12.0				M - W	MD	
			SPT 7, 15, 19 N*=34		24	13.0						
					23	14.0						
					22	15.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID13-GWBH06***
sheet:	3 of 4
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Charman Road, Cheltenham***
date started:	***13 Feb 2017***
date completed:	***28 Feb 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 329009; N: 5795780 (MGA94) | surface elevation: 37.78 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: Polymer | hole diameter : 150 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
AD/V		Not Observable	SPT 13, 11, 14 N*=25	21	17.0		SC	**CLAYEY SAND**: fine to medium grained, pale brown.	M - W	MD	**TERTIARY BRIGHTON GROUP**
								becoming orange-brown, brown, mottled dark grey			
			SPT 12, 22, 5/20mm HB N*=R	20	18.0			with interbedded layers of moderately cemented sand, fine grained, red-brown, (approximately 100mm-200mm thick, at 100mm-300mm spacing).			
				19	19.0			becoming fine grained, trace of fine grained gravel and medium to coarse grained sand, grading to silty sand			
			SPT 8, 22, 52 N*=74	18	20.0						
N				17							
			SPT 3/1mm HB N*=R		21.0						
W				16							
			SPT 29, 22, 46 N*=68		22.0						
				15							
					23.0						
				14			ML	**Sandy SILT**: low to medium liquid limit, orange-brown, fine grained sand.		VSt	

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	**ID13-GWBH06**
sheet:	4 of 4
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Charman Road, Cheltenham**
date started:	**13 Feb 2017**
date completed:	**28 Feb 2017**
logged by:	**KG**
checked by:	**KJ**

position: E: 329009; N: 5795780 (MGA94) | surface elevation: 37.78 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: Polymer | hole diameter : 150 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W N		Not Observable	SPT 12, 21, 23 N*=44		13	25.0		ML	**Sandy SILT**: low to medium liquid limit, orange-brown, fine grained sand. *(continued)*	M	VSt	**TERTIARY BRIGHTON GROUP**
			SPT 30, 12, 20 N*=32		12	26.0		SM	**SILTY SAND**: fine grained, dark grey, trace of shell fragments and weakly cemented sand bands.		D	**GELLIBRAND MARL**
			SPT 19, 31, 35/130mm N*=R		11	27.0						
			SPT 14, 16, 28 N*=44		10	28.0						
			SPT 16, 20, 30 N*=50		9	29.0						
					8	30.0			Borehole ID13-GWBH06 terminated at 30.00 m Target depth			**well details:** bore construction license: WRK098856 driller: J.Boyd **backfill details:** 0.0-3.0m: Grout 3.0-4.5m: Bentonite 4.5-8.0m: Sand 8.0-20.0m: Bentonite **standpipe piezo. ID13-GWBH06 details:** 26.5-29.5m: screen
					7	31.0						
					6							

method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID13-GWBH07***
sheet:	1 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Charman Road, Cheltenham***
date started:	***16 Feb 2017***
date completed:	***17 Feb 2017***
logged by:	***SJS***
checked by:	***KJ***

position: E: 329102; N: 5796363 (MGA94) | surface elevation: 32.36 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe, Track mounted | drilling fluid: None | hole diameter : 200 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID13-GWBH07	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
NDD					32	0.0			**FILL: ASPHALT**: 150mm.			**FILL**
									FILL: GRAVEL: fine to coarse grained, pale brown, with some cobbles.	M	D	
								SC	**CLAYEY SAND**: fine to coarse grained, pale grey, mottled orange.		MD	**TERTIARY BRIGHTON GROUP**
					31	1.0						
					30	2.0						
					29	3.0			becoming pale grey-brown			
					28	4.0						
ADV		17/02/17			27	5.0		SP	**SAND**: fine to coarse grained, pale grey, trace of fines.	W		
					26	6.0			becoming fine grained			
					25	7.0		SP	**SAND**: fine to medium grained, pale brown.			

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID13-GWBH07***
sheet:	2 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Charman Road, Cheltenham***
date started:	***16 Feb 2017***
date completed:	***17 Feb 2017***
logged by:	***SJS***
checked by:	***KJ***

position: E: 329102; N: 5796363 (MGA94) | surface elevation: 32.36 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe, Track mounted | drilling fluid: None | hole diameter : 200 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V N					24			SP	**SAND**: fine to medium grained, pale brown. *(continued)*	W	MD	**TERTIARY BRIGHTON GROUP**
								SC	**CLAYEY SAND**: fine to medium grained, pale grey, medium plasticity.			
					23	9.0						
					22	10.0						
					21	11.0						
					20	12.0						
					19	13.0						
					18	14.0		SM	**SILTY SAND**: fine to medium grained, pale brown.			
					17	15.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
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- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
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F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID13-GWBH07***
sheet:	3 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Charman Road, Cheltenham***
date started:	***16 Feb 2017***
date completed:	***17 Feb 2017***
logged by:	***SJS***
checked by:	***KJ***

position: E: 329102; N: 5796363 (MGA94) | surface elevation: 32.36 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe, Track mounted | drilling fluid: None | hole diameter : 200 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V N					16	17.0		CI	**Silty CLAY**: medium plasticity, grey.	W	VSt	**TERTIARY BRIGHTON GROUP**
					15	18.0						
					14	19.0						
					13	20.0						
					12	21.0			Borehole ID13-GWBH07 terminated at 20.00 m Target depth			**well details:** bore construction license: WRK098290 driller: J.Boyd **backfill details:** 0.0-3.0m: Grout 3.0-4.5m: Bentonite 4.5-8.0m: Sand 8.0-20.0m: Bentonite **standpipe piezo. ID13-GWBH07 details:** 5.0-8.0m: screen
					11	22.0						
					10	23.0						
					9							

method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
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MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID13-GWBH08***
sheet:	1 of 4
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Charman Road, Cheltenham***
date started:	***20 Feb 2017***
date completed:	***10 Mar 2017***
logged by:	***SJS***
checked by:	***KJ***

position: E: 329107; N: 5796362 (MGA94) | surface elevation: 32.33 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID03-GWBH08	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD					32	0.0			**FILL: ASPHALT**: 200mm.			**FILL**
									FILL: GRAVEL: fine to coarse grained, rounded to angular, pale brown, with some clay.	M	MD	
								SC	**CLAYEY SAND**: fine to coarse grained, pale brown-grey with some orange.			**TERTIARY BRIGHTON GROUP**
					31	1.0						
					30	2.0						
			SPT 8, 16, 16 N*=32		29	3.0		SP	**SAND**: fine to coarse grained, pale brown-grey, with some fines.		VD	
N					28	4.0						
AD/V			SPT 16, 24, 28 N*=52		27	5.0						
					26	6.0						
			SPT 11, 22, 27 N*=49		25	7.0					MD	
			SPT 5, 6, 10 N*=16									

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	***ID13-GWBH08***
sheet:	2 of 4
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Charman Road, Cheltenham***
date started:	***20 Feb 2017***
date completed:	***10 Mar 2017***
logged by:	***SJS***
checked by:	***KJ***

position: E: 329107; N: 5796362 (MGA94) | surface elevation: 32.33 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V		23/02/17			24			SP	**SAND**: fine to medium grained, orange, with some clay.	W	MD	**TERTIARY BRIGHTON GROUP**
			SPT 4, 7, 10 N*=17		23	9.0			becoming pale grey			
			SPT 6, 9, 16 N*=25		22	10.0						
					21	11.0		CH	**Silty CLAY**: high plasticity, orange.		VSt	
N			SPT 4, 6, 7 N*=13		20	12.0		SC	**CLAYEY SAND**: fine grained, orange-brown, low to medium plasticity, trace of fine grained gravel.		MD	
			SPT 7, 9, 12 N*=21		19	13.0						
					18	14.0						
			SPT 9, 15, 18 N*=33		17	15.0			trace of cemented sand nodules		D	

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID13-GWBH08***
sheet:	3 of 4
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Charman Road, Cheltenham***
date started:	***20 Feb 2017***
date completed:	***10 Mar 2017***
logged by:	***SJS***
checked by:	***KJ***

position: E: 329107; N: 5796362 (MGA94) | surface elevation: 32.33 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	RL (m)	depth (m)	graphic log	classification symbol	material description (**SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
AD/V, N, W, C			SPT 5, 9, 18 N*=27	16	17.0		SM	**SILTY SAND**: fine to medium grained, dark green-grey.	W	D	**GELLIBRAND MARL**
			SPT 16, 24, 37 N*=61	15	18.0						
				14	19.0						
				13	20.0						
				12	21.0						
				11	22.0						
				10	23.0						
				9							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
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- M moist
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- Wl liquid limit

consistency / relative density

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VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID13-GWBH08***
sheet:	4 of 4
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Charman Road, Cheltenham***
date started:	***20 Feb 2017***
date completed:	***10 Mar 2017***
logged by:	***SJS***
checked by:	***KJ***

position: E: 329107; N: 5796362 (MGA94) | surface elevation: 32.33 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C			SPT 12, 23, 25 N*=48		8	25.0		MH	**Clayey SILT**: high liquid limit, grey - green, with some fine grained sand.	W	H	**GELLIBRAND MARL**
			SPT 22, 31, 39 N*=70		7	26.0						
			SPT 8, 12, 23 N*=35		6	27.0						
			SPT 9, 21, 33 N*=54		5	28.0						
			SPT 11, 22, 27 N*=49		4	29.0						
					3	30.0						
					2	31.0			Borehole ID13-GWBH08 terminated at 30.25 m Target depth			**well details:** bore construction license: WRK098854 drilling company: Drillworx driller: J.Boyd **backfill details:** 0.0-9.5m: Grout 9.5-10.5m: Bentonite 10.5-14.0m: Gravel 14.0-18.0m: Bentonite 18.0-30.25m: Cuttings **standpipe piezo. ID03-GWBH08 details:** 11.0-14.0m: screen
					1							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID18-GWBH01***
sheet:	1 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Edithvale Road, Edithvale***
date started:	***14 Dec 2016***
date completed:	***14 Dec 2016***
logged by:	***DM***
checked by:	***KJ***

position: E: 333950; N: 5788227 (MGA94) | surface elevation: 4.75 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID18-GWBH01	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD					4				**FILL: ASPHALT**: 150mm.			**FILL**
									FILL: CLAYEY GRAVEL: coarse grained, brown, low plasticity.	D	VD	
								SP	**SAND**: fine to medium grained, pale grey. becoming brown		L	**QUATERNARY SANDS**
					3	1.0			becoming pale grey, fine grained		MD	
					2	2.0						
						3.0			becoming medium grained, with some shell fragments		MD - D	
N					1	4.0						
HS		14/12/16			0	5.0			becoming brown	M		
					-1	6.0						
					-2	7.0						
					-3							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
10-Oct-12 water level on date shown
water inflow
water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	**ID18-GWBH01**
sheet:	2 of 2
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Edithvale Road, Edithvale**
date started:	**14 Dec 2016**
date completed:	**14 Dec 2016**
logged by:	**DM**
checked by:	**KJ**

position: E: 333950; N: 5788227 (MGA94) | surface elevation: 4.75 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
HS N					-4	9.0		SP	**SAND**: fine to medium grained, pale grey. *(continued)*	M	MD	**QUATERNARY SANDS**
					-5			SC	**CLAYEY SAND**: fine to medium grained, brown, dark brown, with some shell fragments.	M - W		
					-6	10.0		CI	**CLAY**: medium plasticity, brown, black, trace of sand.		St	**TERTIARY BRIGHTON GROUP**
					-7	11.0			Borehole ID18-GWBH01 terminated at 9.90 m Target depth			**well details:** bore construction license: WRK097799 drilling company: Drillworx driller: J.Boyd **backfill details:** 0.0-3.5m: Grout 3.5-4.5m: Bentonite 4.5-8.0m: Sand 8.0-9.9m: Bentonite **standpipe piezo. ID18-GWBH01 details:** 5.0-8.0m: screen
					-8	12.0						
					-9	13.0						
					-10	14.0						
					-11	15.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID18-GWBH02***
sheet:	1 of 4
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
date started:	***15 Dec 2016***
principal:	***Level Crossing Removal Authority***
date completed:	***21 Dec 2016***
project:	***LCRP-CTF***
logged by:	***LW***
location:	***Edithvale Road, Edithvale***
checked by:	***KJ***

position: E: 333904; N: 5788205 (MGA94) | surface elevation: 3.51 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: None | casing diameter : 125/200

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests	ID18-GWBH02	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
NDD					3				**FILL: ASPHALT**: 100mm.			
									FILL: CLAYEY GRAVEL: fine to coarse grained, brown, low plasticity.	D	VD	**FILL**
CASING					2	1.0		SP	**SAND**: fine to medium grained, grey.	W	L	**QUATERNARY SANDS**
HS		19/12/2016 03:00	SPT 2, 3, 2 N*=5		1	2.0			becoming grey-brown with some shell fragments		MD	
			SPT 2, 3, 4 N*=7		0	3.0			becoming pale grey, trace of medium grained, rounded gravel			
W			SPT 6, 15, 25 N*=40		-1	4.0						
CASING			U63		-2	5.0		SM	**SILTY SAND**: fine to coarse grained, grey.		VD	
					-3	6.0			inferred clay layer, 6.5 to 6.9m			
					-4	7.0		Pt	**PEAT**: black, distinct 'rotten egg', sulphur dioxide odour, some rootlets and other plant matter.	M		
								SM	**SILTY SAND**: fine grained, grey, slight 'rotten egg', sulphur dioxide odour, trace of peat pockets and shell fragments.	W	VD	

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	**ID18-GWBH02**
sheet:	2 of 4
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Edithvale Road, Edithvale**
date started:	**15 Dec 2016**
date completed:	**21 Dec 2016**
logged by:	**LW**
checked by:	**KJ**

position: E: 333904; N: 5788205 (MGA94) | surface elevation: 3.51 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: None | casing diameter : 125/200

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W CASING			SPT 14, 35, 30 N*=65		-5	9.0		SM	**SILTY SAND**: fine grained, grey, slight 'rotten egg', sulphur dioxide odour, trace of peat pockets and shell fragments. *(continued)*	W	VD	**QUATERNARY SANDS**
			SPT 10, 15, 23 N*=38		-6 -7	10.0 11.0		SP	**SAND**: fine grained, dark brown, distinct 'rotten egg', sulphur dioxide odour, with some organic material.	M - W	D	
			SPT 14, 9, 5 N*=14		-8 -9	12.0		SM	**SILTY SAND**: fine grained, grey.	W		
			U63		-10	13.0		Cl	**Sandy CLAY**: medium plasticity, dark grey, fine to medium grained sand.	M	VSt	**TERTIARY BRIGHTON GROUP** HP 180 kPa HP 290 - 300 kPa
			SPT 7, 9, 11 N*=20		-11 -12	14.0 15.0			becoming grey mottled brown, with some sand pockets, fine to coarse grained			

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
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St	stiff
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H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	**ID18-GWBH02**
sheet:	3 of 4
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Edithvale Road, Edithvale**
date started:	**15 Dec 2016**
date completed:	**21 Dec 2016**
logged by:	**LW**
checked by:	**KJ**

position: E: 333904; N: 5788205 (MGA94) | surface elevation: 3.51 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: None | casing diameter : 125/200

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
CASING W N			SPT 33, 17, 16 N*=33		-13	17.0		CI	**Sandy CLAY**: medium plasticity, dark grey, fine to medium grained sand. *(continued)* pockets of weakly cemented, medium grained sand	M	VSt	**TERTIARY BRIGHTON GROUP**
			SPT 25, 20, 17 N*=37		-14	18.0			becoming grey mottled green-brown, becoming fine to medium grained sand			
			SPT 13, 14, 18 N*=32		-15	19.0			becoming grey mottled green-brown, red			
			SPT 23, 23, 32 N*=55		-16	20.0		SC	**CLAYEY SAND**: fine to medium grained, red mottled grey, pale green-brown, with some weakly cemented bands.		D	
			SPT 8, 8, 5 N*=13		-17	21.0		SC	**CLAYEY SAND**: fine grained, dark grey, mottled grey, low plasticity, with some clay bands.		MD	**GELLIBRAND MARL**
			SPT 2, 0, 6 N*=6		-18	22.0		SC	**CLAYEY SAND**: fine grained, dark grey, low plasticity.		L	
					-19	23.0						
					-20							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	**ID18-GWBH02**
sheet:	4 of 4
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Edithvale Road, Edithvale**
date started:	**15 Dec 2016**
date completed:	**21 Dec 2016**
logged by:	**LW**
checked by:	**KJ**

position: E: 333904; N: 5788205 (MGA94) | surface elevation: 3.51 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: None | casing diameter : 125/200

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W N			SPT 0, 0, 1 N*=1		-21	25.0		SC	**CLAYEY SAND**: fine grained, dark grey, low plasticity. *(continued)*	M	L	**GELLIBRAND MARL** SPT sunk 400mm under own weight
			U63		-22	26.0						U63 attempted, no sample recovery
			SPT 0, 0, 3 N*=3		-23	27.0						spt sunk 400mm under own weight
			U63		-24	28.0						
					-25	29.0						
					-26	30.0			Borehole ID18-GWBH02 terminated at 29.95 m Target depth			**well details:** bore construction license: WRK097800 drilling company: DRILLWORX driller: R.Thorne **backfill details:** 0.0-19.8m: Grout 19.8-20.8m: Bentonite 20.8-28.0m: Sand 28.0-29.95m: Bentonite **standpipe piezo. ID18-GWBH02 details:** 21.0-28.0m: screen
					-27	31.0						
					-28							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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Engineering Log - Borehole

Hole ID.	***ID18-GWBH03***
sheet:	1 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
date started:	***16 Jan 2017***
principal:	***Level Crossing Removal Authority***
date completed:	***16 Jan 2017***
project:	***LCRP-CTF***
logged by:	***KG***
location:	***Edithvale Road, Edithvale***
checked by:	***KJ***

position: E: 334086; N: 5788137 (MGA94) | surface elevation: 6.49 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests	ID18-GWBH03	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
NDD HS N		16/03/17			6 5 4 3 2 1 0 -1	1.0 2.0 3.0 4.0 5.0 6.0 7.0			**FILL: Gravelly SAND**: fine to coarse grained, black.	D	D	**FILL**
								SP	**SAND**: fine to medium grained, pale brown, orange brown.	M W		**QUATERNARY SANDS**

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID18-GWBH03***
sheet:	2 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Edithvale Road, Edithvale***
date started:	***16 Jan 2017***
date completed:	***16 Jan 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 334086; N: 5788137 (MGA94) | surface elevation: 6.49 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
HS N					-2	9.0		SP	**SAND**: fine to medium grained, pale brown, orange brown. *(continued)*	W	D	**QUATERNARY SANDS**
					-3			CH	**Sandy CLAY**: high plasticity, grey, fine to medium grained sand, trace of fine to medium grained gravel.		St	**TERTIARY BRIGHTON GROUP**
					-4	10.0			Borehole ID18-GWBH03 terminated at 10.00 m Target depth			**well details:** bore construction license: WRK098857 drilling company: Drillworx driller: J.Boyd **backfill details:** 0.0-1.5m: Grout 1.5-2.5m: Bentonite 2.5-6.0m: Sand 6.0-10.0m: Bentonite **standpipe piezo. ID18-GWBH03 details:** 3.0-6.0m: screen
					-5	11.0						
					-6	12.0						
					-7	13.0						
					-8	14.0						
					-9	15.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID18-GWBH04***
sheet:	1 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Edithvale Road, Edithvale***
date started:	***04 Feb 2017***
date completed:	***04 Feb 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 334375; N: 5788330 (MGA94) | surface elevation: 2.33 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID18-GWBH04	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD		04/02/17			2	1.0		SP	**TOPSOIL: SILT**: low liquid limit, dark brown, dark grey, rootlets.	M	F	**TOPSOIL**
									SAND: fine grained, brown, dark brown, with some fines. becoming fine to medium grained	D - M	L	**QUATERNARY SANDS** Adjacent to tree roots
					1					W		
						2.0			trace of shell fragements		MD	
N					0	3.0						
					-1	4.0						
					-2	5.0						
ADV					-3			ML	**Sandy SILT**: low liquid limit, dark brown, fine to medium grained sand.		St	
					-4	6.0						
					-5	7.0		CI	**Silty CLAY**: medium plasticity, pale grey, trace of fine grained sand.		St - VSt	**TERTIARY BRIGHTON GROUP**

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	**ID18-GWBH04**
sheet:	2 of 2
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Edithvale Road, Edithvale**
date started:	**04 Feb 2017**
date completed:	**04 Feb 2017**
logged by:	**KG**
checked by:	**KJ**

position: E: 334375; N: 5788330 (MGA94) | surface elevation: 2.33 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V N					-6 9.0 -7			SM	**SILTY SAND**: fine to coarse grained, orange-brown, mottled pale grey.	W	MD	**TERTIARY BRIGHTON GROUP**
					-8 -9 -10 -11 -12 -13	10.0 11.0 12.0 13.0 14.0 15.0			Borehole ID18-GWBH04 terminated at 10.00 m Target depth			**well details:** bore construction license: WRK097801 drilling company: Drillworx driller: J.Boyd **backfill details:** 0.0-1.0m: Grout 1.0-2.0m: Bentonite 2.0-5.5m: Sand 5.5-10.0m: Bentonite **standpipe piezo. ID18-GWBH04 details:** 2.5-5.5m: screen

method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID18-GWBH05***
sheet:	1 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Edithvale Road, Edithvale***
date started:	***13 Feb 2017***
date completed:	***14 Feb 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 334373; N: 5788332 (MGA94) | surface elevation: 2.38 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID18-GWBH05	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD					2			SM	**TOPSOIL: SILT**: low liquid limit, dark brown, dark grey, rootlets.	M	F	**TOPSOIL**
									SILTY SAND: fine to medium grained, brown, dark brown.		L	**QUATERNARY SANDS**
					1	1.0						
					0	2.0						
ADV								SM	**SILTY SAND**: fine to medium grained, dark brown, slight "rotten egg", sulhpur dioxide odour.	W	MD	
					-1	3.0						
		Not Observable	SPT 2, 5, 2 N*=7			4.0						
C					-2							
						5.0			becoming grey, trace of shell fragments up to coarse grained gravel size			
			SPT 2, 4, 4 N*=8		-3							
						6.0						
					-4			CI	**Sandy CLAY**: low to medium plasticity, grey, fine to medium grained sand.	M	St	**TERTIARY BRIGHTON GROUP**
			SPT 6, 22, 26 N*=48			7.0						
W					-5			SP	**SAND**: fine to medium grained, grey, with some fines.	M - W	VD	

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID18-GWBH05***
sheet:	2 of 3
project no.	***GEOTABTF10294AA***
client: ***Metro Trains Melbourne***	date started: ***13 Feb 2017***
principal: ***Level Crossing Removal Authority***	date completed: ***14 Feb 2017***
project: ***LCRP-CTF***	logged by: ***LW***
location: ***Edithvale Road, Edithvale***	checked by: ***KJ***

position: E: 334373; N: 5788332 (MGA94) | surface elevation: 2.38 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C		Not Observable	SPT 15, 30, 38 N*=68		-6	9.0		SM	**SILTY SAND**: fine to medium grained, grey.	M - W	VD	**TERTIARY BRIGHTON GROUP**
					-7			Cl	**Sandy CLAY**: medium plasticity, blue-grey, fine grained sand.	M	VSt	
			SPT 7, 13, 15 N*=28		-8	10.0						
					-9	11.0		SM	**SILTY SAND**: fine grained, grey.	W	D	U63 attempted, sample fell out whilst handling
					-10	12.0			becoming fine to medium grained		VD	
			SPT 34, 46, 44/100mm N*=R		-11	13.0						
					-12	14.0			posible clay layer, 200mm			
			SPT 7, 9, 13 N*=22		-13	15.0		CH	**Silty CLAY**: high plasticity, brown mottled grey, with some fine to coarse grained sand, trace of fine grained, rounded to sub-rounded gravel.	M	VSt - H	
									with some silty sand bands, fine to coarse grained, 0.1m-0.4m thick, dense			

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID18-GWBH05***
sheet:	3 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Edithvale Road, Edithvale***
date started:	***13 Feb 2017***
date completed:	***14 Feb 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 334373; N: 5788332 (MGA94) | surface elevation: 2.38 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C			SPT 38, 15, 5 N*=20		-14			CH		M	VSt - H	**TERTIARY BRIGHTON GROUP**
					-15	17.0			Borehole ID18-GWBH05 terminated at 16.45 m Target depth			**well details:** bore construction license: WRK098295 drilling company: DRILLWORX driller: R.Thorne **backfill details:** 0.0-9.0m: Grout 9.0-10.4m: Bentonite 10.4-14.0m: Sand 14.0-16.45m: Cuttings **standpipe piezo. ID18-GWBH05 details:** 11.0-14.0m: screen
					-16	18.0						
					-17	19.0						
					-18	20.0						
					-19	21.0						
					-20	22.0						
					-21	23.0						

method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID43-GWBH01***
sheet:	1 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Seaford Road, Seaford***
date started:	***14 Dec 2016***
date completed:	***14 Dec 2016***
logged by:	***DM***
checked by:	***KJ***

position: E: 335849; N: 5780358 (MGA94) | surface elevation: 5.46 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 250 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID43-GWBH01	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD					5				**FILL: ASPHALT**: 150mm.	D	VD	**FILL**
									FILL: Sandy CLAY: low plasticity, dark brown, coarse grained sand.			
								SP	**SAND**: medium grained, yellow-brown. becoming grey		L	**QUATERNARY SANDS**
					4	1.0			becoming yellow brown			
					3	2.0						
					2	3.0						
N		Not Encountered			1	4.0			becoming brown	M		
ADV					0	5.0			becoming pale brown, with some shell fragments			
					-1	6.0						
					-2	7.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID43-GWBH01***
sheet:	2 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Seaford Road, Seaford***
date started:	***14 Dec 2016***
date completed:	***14 Dec 2016***
logged by:	***DM***
checked by:	***KJ***

position: E: 335849; N: 5780358 (MGA94) | surface elevation: 5.46 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 250 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	RL (m)	depth (m)	graphic log	classification symbol	material description (**SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
AD/V — N		Not Encountered		-3 / 9.0	9.0		Cl	**Silty CLAY**: medium plasticity, dark brown, black, with some shell fragments.	M	St	**SWAMP DEPOSITS**
				-4 / 10.0	10.0						
				-5 / 11.0	11.0		SP	**SAND**: medium grained, grey, trace of dark grey clayey bands/pockets.		D	**TERTIARY BRIGHTON GROUP**
				-6 / 12.0	12.0						
				-7 / 13.0	13.0						
				-8 / 14.0	14.0		Cl	**Silty CLAY**: medium plasticity, grey, mottled brown, trace of fine to medium grained sand.		VSt	
				-9 / 15.0	15.0			Borehole ID43-GWBH01 terminated at 15.00 m Target depth			**well details:** bore construction license: WRK098860 drilling company: Drillworx driller: J.Boyd **backfill details:** 0.0-9.0m: Grout 9.0-11.0m: Bentonite
				-10							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID43-GWBH01***
sheet:	3 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
date started:	***14 Dec 2016***
principal:	***Level Crossing Removal Authority***
date completed:	***14 Dec 2016***
project:	***LCRP-CTF***
logged by:	***DM***
location:	***Seaford Road, Seaford***
checked by:	***KJ***

position: E: 335849; N: 5780358 (MGA94) | surface elevation: 5.46 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 250 mm

drilling information				well details	material substance					
method & support	penetration 1 2 3	water	samples & field tests	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
				-11	17.0						11.0-15.0m: Sand **standpipe piezo. ID43-GWBH01 details:** 11.5-14.5m: screen
				-12	18.0						
				-13	19.0						
				-14	20.0						
				-15	21.0						
				-16	22.0						
				-17	23.0						
				-18							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID43-GWBH02***
sheet:	1 of 4
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Seaford Road, Seaford***
date started:	***12 Dec 2016***
date completed:	***11 Jan 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 335855; N: 5780336 (MGA94) | surface elevation: 4.70 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID43-GWBH02	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD					4				**FILL: ASPHALT**: 100mm.			
									FILL: CLAYEY GRAVEL: medium to coarse grained, brown, medium plasticity.	D	D	**FILL**
									FILL: SILTY SAND: fine to medium grained, dark grey, trace of sub-rounded, fine grained gravel.	M	MD	
						1.0		SP	**SAND**: fine to medium grained, pale brown. with some shell fragments		D	**QUATERNARY SANDS**
			SPT 4, 6, 6 N*=12		3							
						2.0			becoming medium to coarse grained			
			SPT 1, 2, 3 N*=5		2	3.0					L	
AD/V		11/01/17							becoming brown			
		14/12/16 07:15			1	4.0			with some sub-rounded medium grained gravel			
			SPT 1, 2, 3 N*=5		0					W		
						5.0			becoming fine to medium grained, grey-brown, with some fines, trace of pockets of coarse grained sand		D	
			SPT 4, 8, 12 N*=20		-1	6.0				M - W		
W	C				-2							
						7.0						
					-3							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID43-GWBH02***
sheet:	2 of 4
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Seaford Road, Seaford***
date started:	***12 Dec 2016***
date completed:	***11 Jan 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 335855; N: 5780336 (MGA94) | surface elevation: 4.70 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C			SPT 3, 7, 7 N*=14		-4	9.0		CI-CH	**Silty CLAY**: medium to high plasticity, black, with some shell fragments and pockets of silty sand.	M	F - St	**SWAMP DEPOSITS**
								SM	**SILTY SAND**: fine to medium grained, dark grey.	M - W	MD	
			SPT 5, 4, 6 N*=10		-5	10.0		SC	**CLAYEY SAND**: fine to medium grained, brown, mottled grey.	M	L - MD	**TERTIARY BRIGHTON GROUP**
					-6	11.0		SP	**SAND**: medium grained, grey, with some grey clay bands/pockets.		D	
			SPT 19, 15, 17 N*=32		-7	12.0						
					-8	13.0					VD	
			SPT 22, 38, 47 N*=85		-9	14.0		CI-CH	**Silty CLAY**: medium to high plasticity, grey, mottled brown, trace of fine to medium grained sand.		VSt	
			U63		-10	15.0						HP 310 - 340 kPa
					-11							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID43-GWBH02***
sheet:	3 of 4
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Seaford Road, Seaford***
date started:	***12 Dec 2016***
date completed:	***11 Jan 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 335855; N: 5780336 (MGA94) | surface elevation: 4.70 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C			U63		-12	17.0		CI	**Silty CLAY**: medium plasticity, green - brown, mottled grey, with some fine grained sand.	M	St - VSt	**TERTIARY BRIGHTON GROUP** HP 100 - 320 kPa
			SPT 9, 17, 17 N*=34		-13	18.0			becoming grey		VSt - H	
			SPT 17, 15, 28 N*=43		-14	19.0			becoming grey mottled brown, trace of weakly cemented sand pockets			
			SPT 8, 8, 14 N*=22		-15	20.0		CI-CH	**Silty CLAY**: medium to high plasticity, pale grey, mottled brown, trace of fine grained sand.			
			SPT 14, 13, 18 N*=31		-16	21.0						
					-17	22.0						
					-18	23.0						
					-19							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID43-GWBH02***
sheet:	4 of 4
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Seaford Road, Seaford***
date started:	***12 Dec 2016***
date completed:	***11 Jan 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 335855; N: 5780336 (MGA94) | surface elevation: 4.70 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C			SPT 8, 11, 18 N*=29		-20	25.0		CI-CH	**Silty CLAY**: medium to high plasticity, pale grey, mottled brown, trace of fine grained sand. *(continued)*	M	VSt - H	**TERTIARY BRIGHTON GROUP**
					-21	26.0			Borehole ID43-GWBH02 terminated at 25.00 m Target depth			**well details:** bore construction license: WRK098861 drilling company: Drillworx driller: R.Thorne **backfill details:** 0.0-18.5m: Grout 18.5-20.5m: Bentonite 20.5-25.0m: Sand **standpipe piezo. ID43-GWBH02 details:** 21.0-24.0m: screen
					-22	27.0						
					-23	28.0						
					-24	29.0						
					-25	30.0						
					-26	31.0						
					-27							

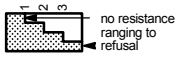
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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

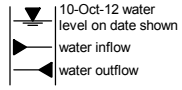
* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration



water



samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
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- Nc SPT with solid cone
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classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
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- Wp plastic limit
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consistency / relative density

VS	very soft
S	soft
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St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID43-GWBH03***
sheet:	1 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Seaford Road, Seaford***
date started:	***20 Jan 2017***
date completed:	***03 Feb 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 336094; N: 5780251 (MGA94) | surface elevation: 3.02 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID43-GWBH03	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
NDD AD/V N		20/01/17	E E E E		3 2 1 0 -1 -2 -3 -4	1.0 2.0 3.0 4.0 5.0 6.0 7.0			**FILL: Gravelly SAND**: fine to coarse grained, dark brown, fine to coarse grained gravel, angular, with some ballast, trace of rootlets.	M	D	**FILL**
								SP	**SAND**: fine to coarse grained, brown, pale brown.	W	MD	**QUATERNARY SANDS**
								CH	**Sandy CLAY**: high plasticity, dark grey, mottled brown, fine to coarse grained sand.		St	
								SM	**SILTY SAND**: fine to coarse grained, dark grey, grey, pale grey.		D	

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
10-Oct-12 water level on date shown
water inflow
water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	***ID43-GWBH03***
sheet:	2 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Seaford Road, Seaford***
date started:	***20 Jan 2017***
date completed:	***03 Feb 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 336094; N: 5780251 (MGA94) | surface elevation: 3.02 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	RL (m)	depth (m)	graphic log	classification symbol	material description (**SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
AD/V — N				3			CH	**Sandy CLAY**: high plasticity, orange-brown, mottled pale grey, fine to coarse grained sand.	W	VSt	**TERTIARY BRIGHTON GROUP**
							ML	**Sandy SILT**: low liquid limit, orange-brown, pale grey, fine to coarse grained sand.			
				-6	9.0		SC	**CLAYEY SAND**: fine to coarse grained, orange-brown, pale grey, medium plasticity.		MD	
				-7	10.0						
				-8	11.0			trace of fine to medium grained gravel, angular to sub-angular			
				-9	12.0			becoming brown, orange-brown, with some coarse grained gravel, sub-angular			
				-10	13.0						
				-11	14.0		CH	**Sandy CLAY**: high plasticity, brown, mottled orange-brown, fine to coarse grained sand, with some cemented bands recovered as fine to coarse grained gravel, angular to sub-angular.		VSt	
				-12	15.0			Borehole ID43-GWBH03 terminated at 15.00 m Target depth			**well details:** bore construction license: WRK098862 drilling company: Drillworx driller: J.Boyd **backfill details:** 0.0-10.5m: Grout 10.5-11.5m: Bentonite

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method
AD auger drilling*
AS auger screwing*
HA hand auger
W washbore
HS hollow stem flight auger
NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

support
M mud
C casing
N nil

penetration
1 2 3
no resistance ranging to refusal

water
10-Oct-12 water level on date shown
water inflow
water outflow

samples & field tests
B bulk disturbed sample
D disturbed sample
E environmental sample
SS split spoon sample
U## undisturbed sample ##mm diameter
HP hand penetrometer (kPa)
N standard penetration test (SPT)
N* SPT - sample recovered
Nc SPT with solid cone
VS vane shear; peak/remouded (kPa)
R refusal
HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
D dry
M moist
W wet
Wp plastic limit
Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	***ID43-GWBH03***
sheet:	3 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Seaford Road, Seaford***
date started:	***20 Jan 2017***
date completed:	***03 Feb 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 336094; N: 5780251 (MGA94) | surface elevation: 3.02 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
				-13							11.5-15.0m: Sand **standpipe piezo. ID43-GWBH03 details:** 12.0-15.0m: screen
				-14	17.0						
				-15	18.0						
				-16	19.0						
				-17	20.0						
				-18	21.0						
				-19	22.0						
				-20	23.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID43-GWBH04***
sheet:	1 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Seaford Road, Seaford***
date started:	***21 Dec 2016***
date completed:	***21 Dec 2016***
logged by:	***DM***
checked by:	***KJ***

position: E: 336367; N: 5780242 (MGA94) | surface elevation: 2.12 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 250 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests	ID43-GWBH04	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
NDD					2				**FILL: ASPHALT**: 200mm.	D	VD	**FILL**
									FILL: GRAVEL: fine to medium grained, grey, black, with some fines.			
								SP	**SAND**: fine to coarse grained, brown, trace of roots.		L - MD	**QUATERNARY SANDS**
					1	1.0			becoming fine grained, pale grey			
					0	2.0				M		
		15/12/16			-1	3.0			becoming dark grey	M - W	D	
					-2	4.0			becoming grey			
HS					-3	5.0						
					-4	6.0		CH	**Sandy CLAY**: high plasticity, grey, pale grey, fine grained sand.	W	St	**TERTIARY BRIGHTON GROUP**
					-5	7.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
10-Oct-12 water level on date shown
water inflow
water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID43-GWBH04***
sheet:	2 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Seaford Road, Seaford***
date started:	***21 Dec 2016***
date completed:	***21 Dec 2016***
logged by:	***DM***
checked by:	***KJ***

position: E: 336367; N: 5780242 (MGA94) | surface elevation: 2.12 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 250 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
HS N					-6			CH	**Sandy CLAY**: high plasticity, grey, pale grey, fine grained sand. *(continued)*	W	St	**TERTIARY BRIGHTON GROUP**
					-7	9.0						
					-8	10.0			Borehole ID43-GWBH04 terminated at 10.00 m Target depth			**well details:** bore construction license: WRK098863 drilling company: Drillworx driller: J.Boyd **backfill details:** 0.0-1.5m: Grout 1.5-2.5m: Bentonite 2.5-6.0m: Sand 6.0-10.0m: Bentonite **standpipe piezo. ID43-GWBH04 details:** 3.0-6.0m: screen
					-9	11.0						
					-10	12.0						
					-11	13.0						
					-12	14.0						
					-13	15.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	***ID43-GWBH05***
sheet:	1 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Seaford Road, Seaford***
date started:	***24 Jan 2017***
date completed:	***25 Jan 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 336422; N: 5780225 (MGA94) | surface elevation: 2.23 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID43-GWBH05	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD		Not Observable			2			SP	**TOPSOIL: SAND**: fine to medium grained, dark grey, trace of rootlets.	D	L - MD	**TOPSOIL**
									SAND: fine to medium grained, grey. becoming pale brown, fine to coarse grained			**QUATERNARY SANDS**
					1	1.0				W		
										M		
N					0	2.0			becoming medium to coarse grained, dark grey		VL	SPT sank under own weight No sample recovery
			SPT 0, 0, 0 N=0									
					-1	3.0						
			SPT 2, 2, 3 N*=5			4.0		CH	**Sandy CLAY**: high plasticity, grey, mottled dark brown, fine to medium grained sand, trace of coarse grained sand.		St	**TERTIARY BRIGHTON GROUP**
W					-2	5.0						
			SPT 4, 14, 16 N*=30		-3	6.0		SC	**CLAYEY SAND**: fine to medium grained, pale grey, mottled pale brown, medium plasticity.		VD	
C					-4			SP	**SAND**: medium grained, grey, mottled brown, with some fines.		MD	
			SPT 9, 4, 5 N*=9		-5	7.0		CI-CH	**Sandy CLAY**: medium to high plasticity, grey, mottled brown, medium grained sand.		St	

method
AD auger drilling*
AS auger screwing*
HA hand auger
W washbore
HS hollow stem flight auger
NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
B blank bit
T TC bit
V V bit

support
M mud
C casing
N nil

penetration
1 2 3 no resistance ranging to refusal

water
10-Oct-12 water level on date shown
water inflow
water outflow

samples & field tests
B bulk disturbed sample
D disturbed sample
E environmental sample
SS split spoon sample
U## undisturbed sample ##mm diameter
HP hand penetrometer (kPa)
N standard penetration test (SPT)
N* SPT - sample recovered
Nc SPT with solid cone
VS vane shear; peak/remouded (kPa)
R refusal
HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
D dry
M moist
W wet
Wp plastic limit
Wl liquid limit

consistency / relative density
VS very soft
S soft
F firm
St stiff
VSt very stiff
H hard
Fb friable
VL very loose
L loose
MD medium dense
D dense
VD very dense

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Engineering Log - Borehole

Hole ID.	***ID43-GWBH05***
sheet:	2 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Seaford Road, Seaford***
date started:	***24 Jan 2017***
date completed:	***25 Jan 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 336422; N: 5780225 (MGA94) | surface elevation: 2.23 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C		Not Observable	SPT 1, 6, 8 N*=14		-6	9.0		CI-CH	**Sandy CLAY**: medium to high plasticity, grey, mottled brown, medium grained sand. *(continued)* becoming dark grey mottled orange-brown, fine to coarse grained sand	M	St	**TERTIARY BRIGHTON GROUP** SPT sunk 100mm under own weight
			SPT 7, 12, 13 N*=25		-7	10.0						
			SPT 13, 17, 37 N*=54		-8	11.0		CI	**Silty CLAY**: medium plasticity, orange-brown, grey.		H	
					-9	12.0		SC	**CLAYEY SAND**: fine to medium grained, pale grey, mottled pale brown.		D	
					-10			SP	**SAND**: fine to medium grained, pale grey, mottled pale brown, trace of fines.	W	VD	
			SPT 6, 29, 31/70mm N*=R		-11	13.0						
					-12	14.0						
W N			SPT 5, 19, 30/100mm N*=R		-13	15.0			becoming pale grey			

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID43-GWBH05***
sheet:	3 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Seaford Road, Seaford***
date started:	***24 Jan 2017***
date completed:	***25 Jan 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 336422; N: 5780225 (MGA94) | surface elevation: 2.23 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W N		Not Observable	SPT 1, 1, 16 N*=17		-14			SP	**SAND**: fine to medium grained, pale grey, mottled pale brown, trace of fines. *(continued)*	W	MD - D	**TERTIARY BRIGHTON GROUP**
					-15	17.0			becoming fine to coarse grained, grey		VD	
			SPT 30, 39, 30/80mm N*=R		-16	18.0						
			SPT 8, 24, 30/90mm N*=R		-17	19.0						
					-18	20.0						
			SPT 8, 30/130mm N*=R									
					-19	21.0			Borehole ID43-GWBH05 terminated at 20.68 m Target depth			**well details:** bore construction license: WRK098864 drilling company: Drillworx driller: R.Thorne **backfill details:** 0.0-12.5m: Grout 12.5-14.5m: Bentonite 14.5-18.5m: Sand 18.5-20.68m: Bentonite **standpipe piezo. ID43-GWBH05 details:** 15.0-18.0m: screen
					-20	22.0						
					-21	23.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	***ID44-GWBH01***
sheet:	1 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Skye Road, Frankston North***
date started:	***17 Jan 2017***
date completed:	***17 Jan 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 335716; N: 5778280 (MGA94) | surface elevation: 4.94 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID44-GWBH01	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
NDD					4	1.0			**TOPSOIL: SILT**: low liquid limit, dark brown, traces of roots.	M	F	**TOPSOIL**
AD/V					3	2.0		SP	**SAND**: fine to medium grained, brown to dark brown, trace of fines.	W	MD	**QUATERNARY SANDS**
N					2	3.0						
					1	4.0		SM	**SILTY SAND**: fine to medium grained, grey, with some fine to medium grained gravel.			
W					0	5.0						
					-1	6.0						
					-2	7.0						
					-3							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remoulded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	***ID44-GWBH01***
sheet:	2 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Skye Road, Frankston North***
date started:	***17 Jan 2017***
date completed:	***17 Jan 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 335716; N: 5778280 (MGA94) | surface elevation: 4.94 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W N					-4	9.0		SM	**SILTY SAND**: fine to medium grained, grey, with some fine to medium grained gravel. *(continued)*	W	MD	**QUATERNARY SANDS?**
					-5	10.0		CH	**Sandy CLAY**: high plasticity, dark grey to pale grey, fine to medium grained sand.		St	
					-6	11.0			Borehole ID44-GWBH01 terminated at 10.00 m Target depth			**well details:** bore construction license: WRK098858 drilling company: Drillworx driller: J.Boyd **backfill details:** 0.0-1.0m: Grout 1.0-2.0m: Bentonite 2.0-5.5m: Sand 5.5-10.0m: Bentonite **standpipe piezo. ID44-GWBH01 details:** 2.5-5.5m: screen
					-7	12.0						
					-8	13.0						
					-9	14.0						
					-10	15.0						
					-11							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
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- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	***ID44-GWBH02***
sheet:	1 of 6
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Skye Road, Frankston North***
date started:	***30 Jan 2017***
date completed:	***03 Feb 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 335717; N: 5778283 (MGA94) | surface elevation: 4.97 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID44-GWBH02	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD / AD/V / C / W		01/02/17 08:00			4	1.0			**TOPSOIL: SILT**: low liquid limit, dark brown, rootlets.		St	**TOPSOIL**
								SP	**SAND**: fine to medium grained, brown.		MD	**QUATERNARY SANDS**
					3	2.0				M - W		
					2	3.0						
								SP	**SAND**: fine to coarse grained, red-brown to orange-brown, trace of fines.	W		
			SPT 4, 6, 7 N*=13		1	4.0						
		02/02/17 08:00			0	5.0		SC	**CLAYEY SAND**: fine grained, grey, medium plasticity, with some clay seams.	M	D	
			SPT 10, 13, 12 N*=25		-1	6.0		SP	**SAND**: fine grained, grey, trace of fines and black peat pockets.		MD	
			SPT 5, 6, 8 N*=14		-2	7.0		SC	**CLAYEY SAND**: medium grained, dark grey, medium plasticity, with some clay pockets.			

method
- AD auger drilling*
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- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

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- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
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- R refusal
- HB hammer bouncing

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moisture
- D dry
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Fb	friable
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Engineering Log - Borehole

Hole ID.	***ID44-GWBH02***
sheet:	2 of 6
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Skye Road, Frankston North***
date started:	***30 Jan 2017***
date completed:	***03 Feb 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 335717; N: 5778283 (MGA94) | surface elevation: 4.97 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C								SC		M	MD	**QUATERNARY SANDS**
			SPT 3, 5, 9 N*=14		-4	9.0		CI-CH	**Sandy CLAY**: medium to high plasticity, dark grey, medium grained sand, with some sand pockets.		St	
			SPT 11, 9, 12 N*=21		-5	10.0		SP	**SAND**: medium grained, brown - grey, with some fines.		MD - D	
					-6	11.0		SC	**CLAYEY SAND**: fine to medium grained, grey, mottled brown, medium plasticity, with some sand and clay pockets. becoming grey mottled brown			
			SPT 0, 7, 10 N*=17		-7	12.0		CI-CH	**Silty CLAY**: medium to high plasticity, grey mottled brown , brown-orange and dark green, trace of fine to medium grained sand.		St	SPT sunk 150mm under own weight
			SPT 0, 7, 8 N*=15		-8	13.0		SC	**CLAYEY SAND**: fine to medium grained, grey, low plasticity.		MD	SPT sunk 150mm under own weight
			SPT 10, 18, 11 N*=29		-9	14.0		SC	**CLAYEY SAND**: fine to medium grained, grey, medium plasticity.		D	**TERTIARY BRIGHTON GROUP**
					-10	15.0						

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method
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penetration
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classification symbol & soil description
based on Unified Classification System

moisture
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Engineering Log - Borehole

Hole ID.	***ID44-GWBH02***
sheet:	3 of 6
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Skye Road, Frankston North***
date started:	***30 Jan 2017***
date completed:	***03 Feb 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 335717; N: 5778283 (MGA94) | surface elevation: 4.97 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C			SPT 19, 23, 32 N*=55		-12	17.0		SC	**CLAYEY SAND**: fine to medium grained, grey, medium plasticity. *(continued)*	M	VD	**TERTIARY BRIGHTON GROUP**
			SPT 7, 30/130mm N*=R		-13	18.0		SP	**SAND**: medium to coarse grained, grey, trace of medium plasticity clay and clay pockets.	W		
								SM	**SILTY SAND**: fine grained, grey.			
			SPT 7, 20, 30/50mm HB N=R		-14	19.0						no sample recovery
					-15	20.0						
			SPT 6, 17, 50 N=67		-16	21.0			possible pockets/bands of coarse grained sand			no sample recovery
					-17	22.0						
			SPT 14, 23, 35/90mm N*=R		-18	23.0						
			SPT 20/80mm, 30,									no sample recovery

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

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e.g. AD/T
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- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
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- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	**ID44-GWBH02**
sheet:	4 of 6
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Skye Road, Frankston North**
date started:	**30 Jan 2017**
date completed:	**03 Feb 2017**
logged by:	**LW**
checked by:	**KJ**

position: E: 335717; N: 5778283 (MGA94) | surface elevation: 4.97 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C			150/145mm HB N=R					CH	**Silty CLAY**: high plasticity, grey, trace of dark grey mottling.	M	VSt - H	**TERTIARY BRIGHTON GROUP**
			SPT 0, 8, 14 N*=22		-20	25.0						SPT sunk 200mm under own weight
					-21	26.0			possible interbedded layers of clay and sand			
			SPT 15, 18, 33 N*=51		-22	27.0						
			U63		-23	28.0		ML	**Sandy SILT**: low liquid limit, grey, fine grained sand.		VSt	200/350mm HP 200 - 250 kPa
					-24	29.0						
			SPT 18, 21, 35/100mm HB N*=R		-25	30.0		SC	**CLAYEY SAND**: fine grained, grey, medium plasticity.		VD	**GELLIBRAND MARL?**
			SPT 22, 27, 46 N*=73		-26	31.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
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- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
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D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID44-GWBH02***
sheet:	5 of 6
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Skye Road, Frankston North***
date started:	***30 Jan 2017***
date completed:	***03 Feb 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 335717; N: 5778283 (MGA94) | surface elevation: 4.97 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C			SPT 16, 20, 23 N*=43		-28	33.0		CI	**Silty CLAY**: medium plasticity, grey mottled dark green, trace of fine grained sand.	M	H	**GELLIBRAND MARL?**
			SPT 15, 19, 45 N*=64		-29	34.0			with some medium grained sand pockets/layers			
			SPT 43, 44/120mm N*=R		-30 -31	35.0 36.0		SP	**SAND**: fine to medium grained, grey, trace of fines.	W	VD	
			SPT 40, 30/70mm N=R		-32	37.0			becoming fine to coarse grained			no sample recovery
			SPT 36, 38, 26 N*=64		-33 -34	38.0 39.0			becoming fine to medium grained with some clay pockets			

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
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support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
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classification symbol & soil description based on Unified Classification System

moisture
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consistency / relative density

VS	very soft
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coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID44-GWBH02***
sheet:	6 of 6
project no.	***GEOTABTF10294AA***
client: ***Metro Trains Melbourne***	date started: ***30 Jan 2017***
principal: ***Level Crossing Removal Authority***	date completed: ***03 Feb 2017***
project: ***LCRP-CTF***	logged by: ***LW***
location: ***Skye Road, Frankston North***	checked by: ***KJ***

position: E: 335717; N: 5778283 (MGA94) | surface elevation: 4.97 m (AHD) | angle from horizontal: 90°

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drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C			SPT 39, 35, 37 N*=72					SP	**SAND**: fine to medium grained, grey, trace of fines. *(continued)*	W	VD	**GELLIBRAND MARL?**
					-36	41.0			Borehole ID44-GWBH02 terminated at 40.55 m Target depth			**well details:** bore construction license: WRK098859 drilling company: DRILLWORX driller: R.Thorne **backfill details:** 0.0-32.5m: Grout 32.5-34.5m: Bentonite 34.5-40.55m: Sand **standpipe piezo. ID44-GWBH02 details:** 35.0-40.5m: screen
					-37	42.0						
					-38	43.0						
					-39	44.0						
					-40	45.0						
					-41	46.0						
					-42	47.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
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* bit shown by suffix
e.g. AD/T
- B blank bit
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support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
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samples & field tests
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classification symbol & soil description
based on Unified Classification System

moisture
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consistency / relative density

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coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID46-GWBH01***
sheet:	1 of 6
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Bondi Street, Bonbeach***
date started:	***17 Jan 2017***
date completed:	***20 Jan 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 335009; N: 5785467 (MGA94) | surface elevation: 5.19 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: None | casing diameter : 125/200

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID46-GWBH01	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD					5				**FILL: ASPHALT**: 50mm.	D	VD	**FILL**
									FILL: CLAYEY GRAVEL: fine to medium grained, grey, black.			
								SP	**SAND**: fine to medium grained, grey.		L - MD	**QUATERNARY SANDS**
CASING					4	1.0			becoming pale brown			
					3	2.0		SP	**SAND**: fine to coarse grained, red to pale brown, with some shell fragments, trace of fines.	W	MD	
		18/01/17 07:45	SPT 3, 11, 23 N*=34		2	3.0						
					1	4.0					VD	
W					0	5.0						
CASING			SPT 17, 27, 29 N*=56		-1	6.0		SM	**SILTY SAND**: fine grained, grey, with some shell fragments.			
			SPT 15, 26, 25 N*=51		-2	7.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
10-Oct-12 water level on date shown
water inflow
water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	**ID46-GWBH01**
sheet:	2 of 6
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Bondi Street, Bonbeach**
date started:	**17 Jan 2017**
date completed:	**20 Jan 2017**
logged by:	**LW**
checked by:	**KJ**

position: E: 335009; N: 5785467 (MGA94) | surface elevation: 5.19 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: None | casing diameter : 125/200

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W CASING					-3			SM	**SILTY SAND**: fine grained, grey, with some shell fragments. *(continued)*	W	VD	**QUATERNARY SANDS**
			SPT 0, 0, 12 N*=12						becoming dark grey, with some soft to firm clay bands, distinct "rotten egg" sulphur dioxide odour		MD	SPT sunk 300mm under own weight
					-4	9.0						
								CI-CH	**Sandy CLAY**: medium to high plasticity, black, trace of shell fragments and slight "rotten egg", sulphur dioxide odour.	M	F	
			U63		-5	10.0						
								SP	**SAND**: fine to medium grained, grey - brown, trace of fines.	W	MD	**TERTIARY BRIGHTON GROUP**
								CI-CH	**Sandy CLAY**: medium to high plasticity, grey, fine to medium grained sand.	M	VSt	
			SPT 7, 8, 13 N*=21		-6	11.0						
					-7	12.0						
								SP	**SAND**: fine to medium grained, grey, trace of fines.	W	VD	
			SPT 31, 41, 23/70mm N*=R		-8	13.0						
					-9	14.0		CI-CH	**Sandy CLAY**: medium to high plasticity, grey, mottled brown, fine to medium grained sand.	M	VSt - H	
			SPT 8, 14, 19 N*=33									
					-10	15.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	***ID46-GWBH01***
sheet:	3 of 6
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
date started:	***17 Jan 2017***
principal:	***Level Crossing Removal Authority***
date completed:	***20 Jan 2017***
project:	***LCRP-CTF***
logged by:	***LW***
location:	***Bondi Street, Bonbeach***
checked by:	***KJ***

position: E: 335009; N: 5785467 (MGA94) | surface elevation: 5.19 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: None | casing diameter : 125/200

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W CASING			SPT 7, 15, 24 N*=39		-11			CI-CH	with some sand pockets **Sandy CLAY**: medium to high plasticity, grey, mottled brown, fine to medium grained sand. *(continued)*	M	VSt - H	**TERTIARY BRIGHTON GROUP**
						17.0						
					-12			SC	**CLAYEY SAND**: medium grained, grey, with some clay pockets.		VD	
			SPT 17, 26, 24 N*=50									
						18.0		CI-CH	**Sandy CLAY**: medium to high plasticity, dark grey, fine to medium grained sand, with some cemented sand nodules.		H	
					-13							
			SPT 33, 20/50mm HB N=R			19.0						no sample recovery, inferred refusal on cemented sand
					-14							
						20.0		CH	**Silty CLAY**: high plasticity, dark grey, mottled black, trace of fine grained sand.		VSt - H	
					-15							
			SPT 6, 10, 12 N*=22			21.0						
					-16							
			U63			22.0			becoming dark grey mottled brown with some sand pockets			HP 230 - 250 kPa
					-17							
						23.0						
					-18							
			SPT 12, 12, 17 N*=29					SC	**CLAYEY SAND**: fine to medium grained, grey, mottled brown, medium plasticity, with some sand and clay pockets.		MD	

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remoulded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	***ID46-GWBH01***
sheet:	4 of 6
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Bondi Street, Bonbeach***
date started:	***17 Jan 2017***
date completed:	***20 Jan 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 335009; N: 5785467 (MGA94) | surface elevation: 5.19 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: None | casing diameter : 125/200

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W CASING					-19			SC	**CLAYEY SAND**: fine to medium grained, grey, mottled brown, medium plasticity, with some sand and clay pockets. *(continued)*	M	MD	**TERTIARY BRIGHTON GROUP**
			SPT 29, 41/110mm N*=R		-20	25.0		SP	**SAND**: fine to medium grained, grey, mottled pale brown, trace of clay and clayey pockets.	M - W	D - VD	
					-21	26.0		SC	**CLAYEY SAND**: fine grained, grey, mottled dark brown, medium plasticity, with some silt pockets.	M	MD	
			SPT 9, 14, 14 N*=28		-22	27.0						
			SPT 12, 23, 28 N*=51		-23	28.0			becoming brown		D	
					-24	29.0			pocket of soft clay, medium plasticity, dark brown, 200mm			
			SPT 3, 0, 10 N*=10		-25	30.0						
			SPT 18, 19, 24 N*=43		-26	31.0		CI-CH	**Sandy CLAY**: medium to high plasticity, green - brown, coarse grained sand, with some sand pockets and red cemented bands/pockets.		VSt	**GELLIBRAND MARL**

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	***ID46-GWBH01***
sheet:	5 of 6
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Bondi Street, Bonbeach***
date started:	***17 Jan 2017***
date completed:	***20 Jan 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 335009; N: 5785467 (MGA94) | surface elevation: 5.19 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: None | casing diameter : 125/200

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W N			SPT 27, 19, 24 N*=43		-27			CI-CH		M	VSt	**GELLIBRAND MARL**
					-28	33.0		SC	**CLAYEY SAND**: fine grained, green - brown, medium plasticity, with some cemented bands.		D - VD	
			SPT 9, 19, 30 N*=49		-29	34.0		SM	**SILTY SAND**: fine grained, green, grey.			
					-30	35.0						
					-31	36.0			trace of shell fragments, coarse grained sandy pockets and moderately cemented bands, recovered as medium grained sand to medium grained gravel sized fragments			
			SPT 15, 36, 30 N*=66		-32	37.0						
					-33	38.0						
			SPT 17, 22, 23 N*=45		-34	39.0						
								CI-CH			VSt - H	

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	***ID46-GWBH01***
sheet:	6 of 6
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Bondi Street, Bonbeach***
date started:	***17 Jan 2017***
date completed:	***20 Jan 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 335009; N: 5785467 (MGA94) | surface elevation: 5.19 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: None | casing diameter : 125/200

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W N			SPT 17, 21, 23 N*=44		-35			CI-CH	**Sandy CLAY**: medium to high plasticity, dark green, coarse grained sand, with some shells and shell fragments, brown-white, trace of clay and sand pockets. *(continued)*	M	VSt - H	**GELLIBRAND MARL**
					-36	41.0			Borehole ID46-GWBH01 terminated at 40.25 m Target depth			**well details:** bore construction license: WRK097794 drilling company: Drillworx driller: R.Thorne **backfill details:** 0.0-33.0m: Grout 33.0-35.0m: Bentonite 35.0-40.25m: Sand **standpipe piezo. ID46-GWBH01 details:** 35.5-38.5m: screen
					-37	42.0						
					-38	43.0						
					-39	44.0						
					-40	45.0						
					-41	46.0						
					-42	47.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID46-GWBH02***
sheet:	1 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Bondi Street, Bonbeach***
date started:	***20 Dec 2016***
date completed:	***20 Dec 2016***
logged by:	***DM***
checked by:	***KJ***

position: E: 334972; N: 5785456 (MGA94) | surface elevation: 5.04 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID46-GWBH02	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD					5			SP	**FILL: ASPHALT**: 50mm.	D	D	**FILL**
									FILL: GRAVEL: fine to medium grained, dark grey, black, with some fines.		MD	**QUATERNARY SANDS**
									SAND: fine to medium grained, grey.			
					4	1.0			becoming pale brown			
									becoming yellow			
					3	2.0			becoming yellow-brown, medium grained			
					2	3.0						
					1	4.0				M - W		
HS		20/12/16			0	5.0			becoming grey, fine grained			
N					-1	6.0						
					-2	7.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID46-GWBH02***
sheet:	2 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Bondi Street, Bonbeach***
date started:	***20 Dec 2016***
date completed:	***20 Dec 2016***
logged by:	***DM***
checked by:	***KJ***

position: E: 334972; N: 5785456 (MGA94) | surface elevation: 5.04 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
HS N					-3			SC	**CLAYEY SAND**: fine grained, pale grey. *(continued)*	M - W	MD	**TERTIARY BRIGHTON GROUP**
					-4	9.0						
					-5	10.0			Borehole ID46-GWBH02 terminated at 10.00 m Target depth	W		**well details:** bore construction license: WRK097795 drilling company: Drillworx driller: J.Boyde **backfill details:** 0.0-3.5m: Grout 3.5-4.5m: Bentonite 4.5-8.0m: Sand 8.0-10.0m: Grout **standpipe piezo. ID46-GWBH02 details:** 5.0-8.0m: screen
					-6	11.0						
					-7	12.0						
					-8	13.0						
					-9	14.0						
					-10	15.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	***ID46-GWBH03***
sheet:	1 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Bondi Street, Bonbeach***
date started:	***13 Jan 2017***
date completed:	***16 Jan 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 334910; N: 5785438 (MGA94) | surface elevation: 3.44 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | casing diameter : 125 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID46-GWBH03	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD					3				**FILL: ASPHALT**: 50mm.	D	VD	**FILL**
								SP	**FILL: GRAVEL**: fine to medium grained, dark grey, with some clay.		L - MD	**QUATERNARY SANDS**
									SAND: fine to medium grained, dark brown. becoming medium grained, pale grey, with some shell fragments			
					2	1.0			becoming fine grained, yellow			
					1	2.0			becoming medium grained, yellow-brown, with some shell fragments		MD	
CASING		16/01/17 07:30			0	3.0				M - W		
ADV					-1	4.0						
					-2	5.0						
					-3	6.0			becoming fine to medium grained, grey	W		
					-4	7.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID46-GWBH03***
sheet:	2 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Bondi Street, Bonbeach***
date started:	***13 Jan 2017***
date completed:	***16 Jan 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 334910; N: 5785438 (MGA94) | surface elevation: 3.44 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | casing diameter : 125 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V CASING		W N			-5	9.0		SP	**SAND**: fine to medium grained, dark brown. *(continued)*	W	MD	**QUATERNARY SANDS**
					-6			SC	**CLAYEY SAND**: fine to medium grained, dark grey, low plasticity.			
						10.0		CI-CH	**Sandy CLAY**: medium to high plasticity, grey - brown, fine to medium grained sand. becoming medium plasticity, yellow-brown, with some shell fragments		St	**TERTIARY BRIGHTON GROUP**
					-7	11.0				M		
					-8	12.0						
					-9			SP	**SAND**: fine to medium grained, grey - brown, trace of fines.	M	D	
					-10	13.0						
						14.0		CI-CH	**Sandy CLAY**: medium to high plasticity, grey, fine grained sand.	M	VSt	
					-11	15.0						
					-12							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	***ID46-GWBH03***
sheet:	3 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Bondi Street, Bonbeach***
date started:	***13 Jan 2017***
date completed:	***16 Jan 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 334910; N: 5785438 (MGA94) | surface elevation: 3.44 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | casing diameter : 125 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W N					-13			CH	**Silty CLAY**: high plasticity, brown, grey - brown, with some fine to medium grained sand. *(continued)* becoming brown mottled grey, decreasing sand content	M	St - VSt	**TERTIARY BRIGHTON GROUP**
					-14	17.0			becoming grey			
					-15	18.0			Borehole ID46-GWBH03 terminated at 18.00 m Target stratum			**well details:** bore construction license: WRK097796 drilling company: DRILLWORX driller: R.Thorne **backfill details:** 0.0-11.0m: Grout 11.0-12.0m: Bentonite 12.0-15.5m: Sand 15.5-18.0m: Bentonite **standpipe piezo. ID46-GWBH03 details:** 12.5-15.5m: screen
					-16	19.0						
					-17	20.0						
					-18	21.0						
					-19	22.0						
					-20	23.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID46-GWBH04***
sheet:	1 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Bondi Street, Bonbeach***
date started:	***18 Jan 2017***
date completed:	***18 Jan 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 335102; N: 5785473 (MGA94) | surface elevation: 5.97 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID46-GWBH04	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD					5	1.0			**FILL: ASPHALT**: 100mm.	M	MD	**FILL**
									FILL: GRAVEL: fine to coarse grained, black.			
								SP	**SAND**: fine to medium grained, pale grey.			**QUATERNARY SANDS**
					4	2.0			becoming pale brown, brown, mottled orange-brown			
					3	3.0						
N					2	4.0						
AD/V		18/02/17			1	5.0				W		
					0	6.0						
					-1	7.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***ID46-GWBH04***
sheet:	2 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Bondi Street, Bonbeach***
date started:	***18 Jan 2017***
date completed:	***18 Jan 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 335102; N: 5785473 (MGA94) | surface elevation: 5.97 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V N					-3	9.0		SP	**SAND**: fine to medium grained, grey, pale grey, trace of fines.	W	MD	**QUATERNARY SANDS**
								ML	**Sandy SILT**: fine to medium grained, low liquid limit, pale grey.	M	VSt	**TERTIARY BRIGHTON GROUP**
					-4	10.0		Cl	**Sandy CLAY**: medium plasticity, grey, fine to coarse grained sand.			
									Borehole ID46-GWBH04 terminated at 10.00 m Target depth			**well details:** bore construction license: WRK098291 drilling company: Drillworx driller: J.Boyd **backfill details:** 0.0-4.5m: Grout 4.5-5.5m: Bentonite 5.5-9.0m: Sand 9.0-10.0m: Bentonite **standpipe piezo. ID46-GWBH04 details:** stickup: 9.0m 6.0-9.0m: screen
					-5	11.0						
					-6	12.0						
					-7	13.0						
					-8	14.0						
					-9	15.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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Engineering Log - Borehole

Hole ID.	***ID46-GWBH05***
sheet:	1 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Bondi Street, Bonbeach***
date started:	***24 Jan 2017***
date completed:	***24 Jan 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 335505; N: 5785360 (MGA94) | surface elevation: 2.16 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 125 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID46-GWBH05	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
NDD		24/01/17 ▽			2			SP	**TOPSOIL: SILTY SAND**: fine to medium grained, grey, rootlets.	M	MD	**TOPSOIL**
									SAND: fine to medium grained, grey, pale grey, trace of fines.		L - MD	**QUATERNARY SANDS**
					1	1.0						
					0	2.0		SM	**SILTY SAND**: fine to coarse grained, brown, grey brown.	W	MD	
N					-1	3.0						
					-2	4.0						
ADV					-3	5.0						
					-4	6.0						
					-5	7.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remoulded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID46-GWBH05***
sheet:	2 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Bondi Street, Bonbeach***
date started:	***24 Jan 2017***
date completed:	***24 Jan 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 335505; N: 5785360 (MGA94) | surface elevation: 2.16 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 125 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V N					-6			SM	**SILTY SAND**: fine to coarse grained, brown, grey brown. *(continued)*	W	MD	**QUATERNARY SANDS**
					-7	9.0		CH	**CLAY**: high plasticity, grey.	M	VSt	**TERTIARY BRIGHTON GROUP**
					-8	10.0			Borehole ID46-GWBH05 terminated at 10.00 m Target depth			**well details:** bore construction license: WRK097797 driller: J.Boyd **backfill details:** 0.0-1.5m: Grout 1.5-2.5m: Bentonite 2.5-6.0m: Sand 6.0-10.0m: Bentonite **standpipe piezo. ID46-GWBH05 details:** 3.0-6.0m: screen
					-9	11.0						
					-10	12.0						
					-11	13.0						
					-12	14.0						
					-13	15.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

- * bit shown by suffix
- e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID46-GWBH06***
sheet:	1 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Bondi Street, Bonbeach***
date started:	***15 Feb 2017***
date completed:	***16 Feb 2017***
logged by:	***KG/LW***
checked by:	***KJ***

position: E: 335511; N: 5785347 (MGA94) | surface elevation: 2.18 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	ID46-GWBH06	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD, N, W, C		16/02/17			2			SP	**SAND**: fine to medium grained, brown, pale brown, rootlets in top 100mm.	M	MD	**QUATERNARY SANDS**
					1	1.0				W		
					0	2.0						
			SPT 1, 1, 2 N*=3									SPT sunk 100mm under own weight (disturbed during drilling)
					-1	3.0		SP	**SAND**: fine to medium grained, brown to grey, with some shell fragments, trace of fines.		L	
			SPT 1, 1, 3 N*=4		-2	4.0		SP	**SAND**: fine to medium grained, dark grey, trace of shell fragments, strong "rotten egg" sulphur dioxide odour. Interbedded with high plasticity, very soft, black organic clay and silt (approximately 40mm thick layers).		MD	
					-3	5.0		SP	**SAND**: fine to medium grained, black to dark grey, with pockets of fibrous, dark brown peat.	M - W	D	
			SPT 2, 7, 9 N*=16		-4	6.0		CI	**Sandy CLAY**: medium plasticity, dark grey, fine to medium grained sand, with clayey seams and sandy pockets.	M	St	
			SPT 3, 6, 7 N*=13		-5	7.0		CI-CH	**Sandy CLAY**: medium to high plasticity, grey mottled brown, fine to medium grained sand.			

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***ID46-GWBH06***
sheet:	2 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Bondi Street, Bonbeach***
date started:	***15 Feb 2017***
date completed:	***16 Feb 2017***
logged by:	***KG/LW***
checked by:	***KJ***

position: E: 335511; N: 5785347 (MGA94) | surface elevation: 2.18 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C					-6			CI-CH	**Sandy CLAY**: medium to high plasticity, grey mottled brown, fine to medium grained sand. *(continued)*	M	St	**QUATERNARY SANDS**
			SPT 21, 36, 41 N*=77		-7	9.0		SM	**SILTY SAND**: fine to medium grained, grey.	M - W	VD	**TERTIARY BRIGHTON GROUP**
					-8	10.0		CH	**Silty CLAY**: high plasticity, blue-grey, trace of fine grained sand.	M	St	
			SPT 3, 26, 23 N*=49					SP	**SAND**: fine to medium grained, grey, trace of fines. weakly cemented, dark brown band at interface		D	
					-9	11.0		SC	**CLAYEY SAND**: fine to medium grained, grey, high plasticity.			
			SPT 4, 8, 12 N*=20		-10	12.0						
					-11	13.0		SM	**SILTY SAND**: fine grained, grey.	W		U63 attempted. Sample fell out of tube during handling
					-12	14.0			silt content decreasing, grading to sand			
			SPT 6, 11, 17 N*=28							M - W		
					-13	15.0		CH	**Silty CLAY**: high plasticity, dark grey, trace of fine grained sand.	M	St - VSt	

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remoulded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	***ID46-GWBH06***
sheet:	3 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Bondi Street, Bonbeach***
date started:	***15 Feb 2017***
date completed:	***16 Feb 2017***
logged by:	***KG/LW***
checked by:	***KJ***

position: E: 335511; N: 5785347 (MGA94) | surface elevation: 2.18 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C			SPT 4, 6, 7 N*=13		-14			CH	**Silty CLAY**: high plasticity, dark grey, trace of fine grained sand. *(continued)*	M	St - VSt	**TERTIARY BRIGHTON GROUP**
			U63		-15	17.0			becoming dark grey mottled brown			
					-16	18.0						HP 180 - 200 kPa HP 250 - 260 kPa
			SPT 14, 26, 38 N*=64		-17	19.0		SC	**CLAYEY SAND**: fine to medium grained, pale brown mottled grey, medium plasticity.	M - W	VD	
					-18	20.0						
			SPT 33, 40/90mm HB N*=R		-19	21.0		SP	**SAND**: fine to medium grained, grey, trace of fines.	W		
					-20	22.0			Borehole ID46-GWBH06 terminated at 20.74 m Target depth			**well details:** bore construction license: WRK097798 drilling company: DRILLWORX driller: J.Boyd **backfill details:** 0.0-15.0m: Grout 15.0-17.0m: Bentonite 17.0-20.74m: Sand **standpipe piezo. ID46-GWBH06 details:** 17.2-20.2m: screen
					-21	23.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density
- VS very soft
- S soft
- F firm
- St stiff
- VSt very stiff
- H hard
- Fb friable
- VL very loose
- L loose
- MD medium dense
- D dense
- VD very dense

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Engineering Log - Borehole

Hole ID.	***SS-GWBH01***
sheet:	1 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Station Street, Seaford***
date started:	***13 Dec 2016***
date completed:	***13 Dec 2016***
logged by:	***DM***
checked by:	***KJ***

position: E: 335660; N: 5781063 (MGA94) | surface elevation: 4.73 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 250 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	SS-GWBH01	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD					4				**FILL: ASPHALT**: 150mm.			**FILL**
									FILL: Sandy GRAVEL: fine to coarse grained, brown, fine to coarse grained sand.	D	D	
						1.0		SP	**SAND**: fine to medium grained, pale grey.	M	MD	**QUATERNARY SANDS**
					3				becoming fine grained, yellow, pale grey			
						2.0						
					2							
						3.0						
		15/12/16			1							
						4.0					D	
N					0							
						5.0						
					-1							
						6.0			becoming fine to medium grained, with some shell fragments			
					-2							
						7.0						
HS					-3							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***SS-GWBH01***
sheet:	2 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Station Street, Seaford***
date started:	***13 Dec 2016***
date completed:	***13 Dec 2016***
logged by:	***DM***
checked by:	***KJ***

position: E: 335660; N: 5781063 (MGA94) | surface elevation: 4.73 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 250 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
HS N					-4 -5	9.0		SP	**SAND**: fine to medium grained, pale grey. *(continued)*	M	D	**QUATERNARY SANDS**
					-6 -7 -8 -9 -10 -11	10.0 11.0 12.0 13.0 14.0 15.0			Borehole SS-GWBH01 terminated at 10.00 m Target depth			**well details:** bore construction license: WRK098865 drilling company: Drillworx driller: J.Boyd **backfill details:** 0.0-1.5m: Grout 1.5-2.5m: Bentonite 2.5-6.0m: Sand 6.0-10.0m: Bentonite **standpipe piezo. SS-GWBH01 details:** 3.0-6.0m: screen

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***SS-GWBH02***
sheet:	1 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Station Street, Seaford***
date started:	***28 Feb 2017***
date completed:	***02 Mar 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 335665; N: 5781063 (MGA94) | surface elevation: 4.78 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B - 8D, Track mounted | drilling fluid: Polymer | hole diameter : 125 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	SS-GWBH02	RL (m)	depth (m)	graphic log	classification symbol	material description (SOIL TYPE: plasticity or particle characteristic, colour, secondary and minor components)	moisture condition	consistency / relative density	structure and additional observations
NDD					4				**FILL: ASPHALT**: 100mm.			
									FILL: Sandy GRAVEL: fine to medium grained, dark grey, fine to coarse grained sand.	D	D	**FILL**
								SP	**SAND**: fine to medium grained, grey.			**QUATERNARY SANDS**
						1.0						
N					3				becoming pale brown	D - M	MD	
						2.0						
ADV					2							
						3.0					D	
					1					W	VD	
			SPT 7, 12, 14 N*=26			4.0			becoming fine to coarse grained with some shell fragments			
					0							
		02/03/17 07:00, Measured through 16.3m of PQ rods				5.0						
W	C				-1				becoming fine to medium grained, pale grey, trace of silt			
			SPT 15, 22, 30 N*=52			6.0						
					-2							
						7.0						
			SPT 9, 18, 23 N*=41					SM	**SAND**: fine to medium grained, grey, trace of fines.			
					-3							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	**SS-GWBH02**
sheet:	2 of 3
project no.	**GEOTABTF10294AA**
client:	**Metro Trains Melbourne**
principal:	**Level Crossing Removal Authority**
project:	**LCRP-CTF**
location:	**Station Street, Seaford**
date started:	**28 Feb 2017**
date completed:	**02 Mar 2017**
logged by:	**LW**
checked by:	**KJ**

position: E: 335665; N: 5781063 (MGA94) | surface elevation: 4.78 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B - 8D, Track mounted | drilling fluid: Polymer | hole diameter : 125 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C								SM	**SAND**: fine to medium grained, grey, trace of fines. *(continued)*	W	VD	**QUATERNARY SANDS**
			SPT 0, 0, 0 N*=0		-4	9.0		CI-CH	**Silty CLAY**: medium to high plasticity, black, with some shell fragments and bands of fine grained, dark grey silty sand. Strong 'rotten egg', sulphur dioxide odour.	M	VS	**SWAMP DEPOSITS** SPT sunk under weight of rods only
			U63									Hole cleaned to 9.3m for U63 attempt
					-5	10.0						HP 50 - 70 kPa; 60, 50, 70
			U63					CH	**Silty CLAY**: high plasticity, grey mottled brown, trace of fine grained sand, sand pockets and moderately cemented bands.		St	**TERTIARY BRIGHTON GROUP**
					-6	11.0						HP 230 - >600 kPa; >600, 230, >600, >600
			SPT 15, 20, 20 N*=40		-7	12.0		CL-CI	**Sandy CLAY**: low to medium plasticity, brown mottled grey and dark red, fine grained sand, trace of moderately cemented, fine grained, dark brown sand bands (appprox 50mm thick, spaced 100-200m).		VSt	SPT results high due to cemented sand
					-8	13.0			sand becoming fine to coarse grained, orange-brown mottled grey			
			SPT 21, 24, 30 N*=54		-9	14.0						
					-10	15.0			cemented bands becoming thicker (100-200mm thick)			
			SPT 14, 17, 8 N*=25		-11							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***SS-GWBH02***
sheet:	3 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Station Street, Seaford***
date started:	***28 Feb 2017***
date completed:	***02 Mar 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 335665; N: 5781063 (MGA94) | surface elevation: 4.78 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B - 8D, Track mounted | drilling fluid: Polymer | hole diameter : 125 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C								CL-CI		M	VSt	**TERTIARY BRIGHTON GROUP**
			SPT 16, 16, 18 N*=34		-12	17.0		CL	**Silty CLAY**: low plasticity, brown mottled grey , orange brown and red-brown, trace of fine gained sand and weakly to moderately cemented sand bands.			
			SPT 14, 18, 19 N*=37		-13	18.0		ML-MH	**Clayey SILT**: medium to high liquid limit, orange - brown mottled grey, with some fine grained silt.			
			SPT 12, 21, 22 N*=43		-14	19.0			becoming orange-brown			
					-15	20.0		CI	**Silty CLAY**: medium plasticity, orange - brown.		St	
			SPT 8, 8, 12 N*=20		-16	21.0						
					-17	22.0			Borehole SS-GWBH02 terminated at 21.25 m Target depth			**well details:** bore construction license: WRK098866 drilling company: DRILLWORX driller: R.Thorne **backfill details:** 0.0-11.5m: Grout 11.5-12.5m: Bentonite 12.5-16.0m: Sand 16.0-21.25m: Bentonite **standpipe piezo. SS-GWBH02 details:** 13.0-16.0m: screen
					-18	23.0						
					-19							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	***SS-GWBH03***
sheet:	1 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Station Street, Seaford***
date started:	***11 Jan 2017***
date completed:	***11 Jan 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 335857; N: 5781022 (MGA94) | surface elevation: 4.86 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests	SS-GWBH03	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
NDD					4	0.0			**FILL: ASPHALT**: 100mm.	D	D	**FILL**
								SP	**FILL: GRAVEL**: fine to coarse grained, dark grey.		MD	**QUATERNARY SANDS**
					3				**SAND**: fine to medium grained, brown.			
						1.0			becoming orange-brown, mottled pale brown			
					2	2.0						
						3.0						
		11/01/17			1				trace of shell fragments	W	D	
N						4.0						
					0	5.0						
						6.0						
					-1							
					-2	7.0						
AD/V					-3			SC	**CLAYEY SAND**: fine to medium grained, orange-brown, trace of fine to coarse grained gravel (inferred cemented sand).			**TERTIARY BRIGHTON GROUP**

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***SS-GWBH03***
sheet:	2 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Station Street, Seaford***
date started:	***11 Jan 2017***
date completed:	***11 Jan 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 335857; N: 5781022 (MGA94) | surface elevation: 4.86 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe 6610DT, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V N					-4	9.0		SC	**CLAYEY SAND**: fine to medium grained, orange-brown, trace of fine to coarse grained gravel (inferred cemented sand). *(continued)*	W	D	**TERTIARY BRIGHTON GROUP**
					-5	10.0			Borehole SS-GWBH03 terminated at 10.00 m Target depth			**well details:** bore construction license: WRK098867 drilling company: Drillworx driller: J.Boyd **backfill details:** 0.0-5.5m: Grout 5.5-6.5m: Bentonite 6.5-10.0m: Sand **standpipe piezo. SS-GWBH03 details:** 7.0-10.0m: screen
					-6	11.0						
					-7	12.0						
					-8	13.0						
					-9	14.0						
					-10	15.0						
					-11							

method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***SS-GWBH04***
sheet:	1 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Station Street, Seaford***
date started:	***07 Feb 2017***
date completed:	***07 Feb 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 336353; N: 5780994 (MGA94) | surface elevation: 1.46 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information | **well details** | **material substance**

method & support	penetration 1 2 3	water	samples & field tests	SS-GWBH04	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
NDD		07/02/17			1	1.0			**TOPSOIL: SILT**: low liquid limit, dark brown, trace of fine to coarse grained sand and fine grained gravel, rootlets.	M - W	St	**TOPSOIL**
								SM	organic odour **SILTY SAND**: fine grained, dark grey.	W	MD	**QUATERNARY SANDS**
					0	2.0		ML	**Sandy SILT**: low liquid limit, grey, fine grained sand.		St	
					-1	3.0		CH	**CLAY**: high plasticity, pale grey, trace of fine grained sand.	M - W	St - VSt	
N					-2	4.0		ML	**Sandy SILT**: low liquid limit, pale grey, fine to medium grained sand, trace of gravel.	W	St	
ADV					-3	5.0						
					-4	6.0		CH	**CLAY**: high plasticity, pale brown, trace of fine to coarse grained sand.	M - W	VSt	**TERTIARY BRIGHTON GROUP**
					-5	7.0						
					-6							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	***SS-GWBH04***
sheet:	2 of 2
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Station Street, Seaford***
date started:	***07 Feb 2017***
date completed:	***07 Feb 2017***
logged by:	***KG***
checked by:	***KJ***

position: E: 336353; N: 5780994 (MGA94) | surface elevation: 1.46 m (AHD) | angle from horizontal: 90°

equipment type: Geoprobe, Track mounted | drilling fluid: None | hole diameter : 150 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
AD/V N					-7			CH	**CLAY**: high plasticity, pale brown, trace of fine to coarse grained sand. *(continued)*	M - W	VSt	**TERTIARY BRIGHTON GROUP**
								CH	**Sandy CLAY**: high plasticity, pale brown, mottled white, fine to coarse grained sand.			
					-8	9.0						
					-9	10.0			Borehole SS-GWBH04 terminated at 10.00 m Target depth			**well details:** bore construction license: WRK098868 driller: J.Boyd **backfill details:** 0.0-1.0m: Grout 1.0-2.0m: Bentonite 2.0-4.5m: Sand 4.5-10.0m: Bentonite **standpipe piezo. SS-GWBH04 details:** 2.5-4.5m: screen
					-10	11.0						
					-11	12.0						
					-12	13.0						
					-13	14.0						
					-14	15.0						

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

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Engineering Log - Borehole

Hole ID.	***SS-GWBH05***
sheet:	1 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Station Street, Seaford***
date started:	***08 Feb 2017***
date completed:	***09 Feb 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 336352; N: 5780991 (MGA94) | surface elevation: 1.52 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests	SS-GWBH05	RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
NDD									**TOPSOIL: SILT**: low liquid limit, dark brown, trace of fine to coarse grained sand and fine grained gravel, organic odour, rootlets.	M - W	St	**TOPSOIL**
					1	1.0		SM	**SILTY SAND**: fine grained, dark grey.	W	MD	**QUATERNARY SANDS**
N					0	2.0		ML	**Sandy SILT**: low liquid limit, dark grey, fine grained sand.		St	
AD/V					-1			SM	**SILTY SAND**: fine grained, grey.		L	
			SPT 2, 1, 1 N*=2			3.0		CH	**CLAY**: high plasticity, dark blue-grey, trace of fine grained sand.	M	S	
					-2	4.0		SM	**SILTY SAND**: fine to medium grained, pale grey, with some high plasticity clay pockets/bands.	M - W	MD	
			SPT 3, 3, 6 N*=9		-3	5.0						
W		Not Observable				6.0		CH	**CLAY**: high plasticity, dark brown mottled grey, trace of fine grained sand.	M	St	
C			SPT 7, 7, 8 N*=15		-4							
					-5	7.0		CI-CH	**Sandy CLAY**: medium to high plasticity, pale grey mottled orange, fine grained sand.		VSt	**TERTIARY BRIGHTON GROUP**
			SPT 6, 10, 13 N*=23		-6							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
- N* SPT - sample recovered
- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
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Engineering Log - Borehole

Hole ID.	***SS-GWBH05***
sheet:	2 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Station Street, Seaford***
date started:	***08 Feb 2017***
date completed:	***09 Feb 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 336352; N: 5780991 (MGA94) | surface elevation: 1.52 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance						
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C		Not Observable	SPT 6, 8, 9 N*=17		-7	9.0		CI-CH	**Sandy CLAY**: medium to high plasticity, pale grey mottled orange, fine grained sand. *(continued)*	M	VSt	**TERTIARY BRIGHTON GROUP**
								CH	**Sandy CLAY**: high plasticity, brown mottled grey, brown-orange, medium grained sand, trace of medium grained gravel.			
			SPT 8, 12, 14 N*=26		-8	10.0			10mm thick dark brown weakly cemented bands			
					-9	11.0		SC	**CLAYEY SAND**: fine to medium grained, dark brown, low plasticity, with some pale grey clay bands.		VD	
			SPT 17, 25, 30/100mm N*=R		-10	12.0						
					-11	13.0			becoming fine to coarse grained, brown and grey, with some clay bands			
			SPT 9, 19, 29 N*=48		-12	14.0						
					-13			SM	**SILTY SAND**: fine grained, pale grey.	W		
			SPT 26, 30, 16 N*=46			15.0						
					-14			CI-CH	**Silty CLAY**: medium to high plasticity, pale grey mottled brown, trace of fine grained sand.	M	VSt	

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix, e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
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samples & field tests
- B bulk disturbed sample
- D disturbed sample
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- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
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- Nc SPT with solid cone
- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

coffey
A TETRA TECH COMPANY

Engineering Log - Borehole

Hole ID.	***SS-GWBH05***
sheet:	3 of 3
project no.	***GEOTABTF10294AA***
client:	***Metro Trains Melbourne***
principal:	***Level Crossing Removal Authority***
project:	***LCRP-CTF***
location:	***Station Street, Seaford***
date started:	***08 Feb 2017***
date completed:	***09 Feb 2017***
logged by:	***LW***
checked by:	***KJ***

position: E: 336352; N: 5780991 (MGA94) | surface elevation: 1.52 m (AHD) | angle from horizontal: 90°

equipment type: Hanjin D&B, Track mounted | drilling fluid: Polymer | hole diameter : 200 mm

drilling information				well details	material substance							
method & support	penetration 1 2 3	water	samples & field tests		RL (m)	depth (m)	graphic log	classification symbol	material description **SOIL TYPE**: plasticity or particle characteristic, colour, secondary and minor components	moisture condition	consistency / relative density	structure and additional observations
W C		Not Observable	SPT 9, 12, 15 N*=27		-15	17.0		CI-CH	**Silty CLAY**: medium to high plasticity, pale grey mottled brown, trace of fine grained sand. *(continued)*	M	VSt	**TERTIARY BRIGHTON GROUP**
			SPT 7, 11, 13 N*=24		-16	18.0			becoming mottled grey, brown and dark red, with some fine grained sand			
					-17	19.0			with bands (up to approximately 150mm thick) of fine to coarse grained clayey sand			
			SPT 15, 13, 15 N*=28		-18	20.0			becoming grey mottled green-brown			
			SPT 13, 20, 24 N*=44		-19	21.0		SC	**CLAYEY SAND**: fine grained, brown, medium plasticity.	M - W	VD	
					-20	22.0			Borehole SS-GWBH05 terminated at 21.05 m Target depth			**well details:** bore construction license: WRK098869 drilling company: DRILLWORX driller: R.Thorne **backfill details:** 0.0-9.0m: Grout 9.0-11.0m: Bentonite 11.0-15.0m: Sand 15.0-21.05m: Bentonite **standpipe piezo. SS-GWBH05 details:** 11.5-14.5m: screen
					-21	23.0						
					-22							

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method
- AD auger drilling*
- AS auger screwing*
- HA hand auger
- W washbore
- HS hollow stem flight auger
- NDD non destructive drilling

* bit shown by suffix
e.g. AD/T
- B blank bit
- T TC bit
- V V bit

support
- M mud
- C casing
- N nil

penetration
1 2 3 — no resistance ranging to refusal

water
- 10-Oct-12 water level on date shown
- water inflow
- water outflow

samples & field tests
- B bulk disturbed sample
- D disturbed sample
- E environmental sample
- SS split spoon sample
- U## undisturbed sample ##mm diameter
- HP hand penetrometer (kPa)
- N standard penetration test (SPT)
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- VS vane shear; peak/remouded (kPa)
- R refusal
- HB hammer bouncing

classification symbol & soil description
based on Unified Classification System

moisture
- D dry
- M moist
- W wet
- Wp plastic limit
- Wl liquid limit

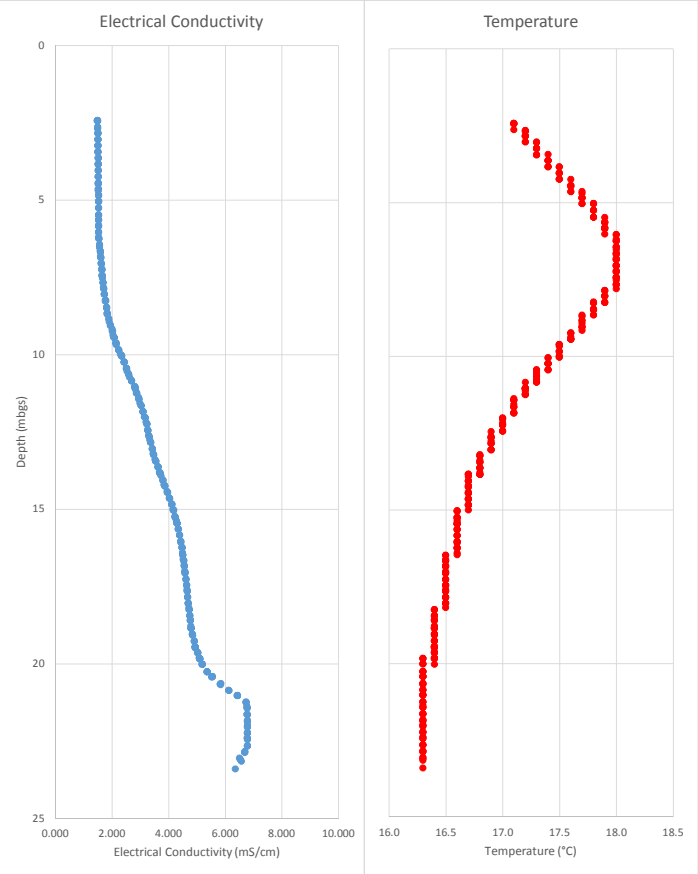
consistency / relative density

VS	very soft
S	soft
F	firm
St	stiff
VSt	very stiff
H	hard
Fb	friable
VL	very loose
L	loose
MD	medium dense
D	dense
VD	very dense

Appendix F – Salinity Profiling Data

Borehole: ARM-GWBH04
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 2.251
Total Depth (mbgs): 23.41
Screen Interval (mbgs): 22 to 25
***Note:** Well guaged with total depth of 23.41 mbGS. Some sedimentation at the base of the well.

DateTime	Logger Depth (mbGS)	Water Temperature (°C)	Electrical Conductivity (mS/cm)
12/07/2017 5:16	2.442	17.1	1.495
12/07/2017 5:16	2.436	17.1	1.493
12/07/2017 5:16	2.430	17.1	1.493
12/07/2017 5:17	2.430	17.1	1.493
12/07/2017 5:17	2.430	17.1	1.494
12/07/2017 5:17	2.448	17.1	1.494
12/07/2017 5:17	2.634	17.1	1.504
12/07/2017 5:17	2.652	17.2	1.504
12/07/2017 5:17	2.664	17.2	1.504
12/07/2017 5:18	2.694	17.2	1.504
12/07/2017 5:18	2.832	17.2	1.506
12/07/2017 5:18	2.844	17.2	1.506
12/07/2017 5:18	2.838	17.2	1.506
12/07/2017 5:18	2.844	17.2	1.506
12/07/2017 5:18	3.036	17.2	1.507
12/07/2017 5:19	3.036	17.2	1.508
12/07/2017 5:19	3.036	17.3	1.508
12/07/2017 5:19	3.048	17.3	1.508
12/07/2017 5:19	3.240	17.3	1.511
12/07/2017 5:19	3.240	17.3	1.510
12/07/2017 5:19	3.252	17.3	1.510
12/07/2017 5:20	3.240	17.3	1.510
12/07/2017 5:20	3.456	17.3	1.515
12/07/2017 5:20	3.444	17.3	1.513
12/07/2017 5:20	3.444	17.3	1.513
12/07/2017 5:20	3.438	17.4	1.513
12/07/2017 5:20	3.636	17.4	1.517
12/07/2017 5:21	3.636	17.4	1.516
12/07/2017 5:21	3.636	17.4	1.516
12/07/2017 5:21	3.648	17.4	1.516
12/07/2017 5:21	3.834	17.4	1.518
12/07/2017 5:21	3.846	17.4	1.518
12/07/2017 5:21	3.846	17.4	1.518
12/07/2017 5:22	3.840	17.5	1.517
12/07/2017 5:22	3.840	17.5	1.517
12/07/2017 5:22	4.038	17.5	1.523
12/07/2017 5:22	4.044	17.5	1.522
12/07/2017 5:22	4.056	17.5	1.522
12/07/2017 5:22	4.242	17.5	1.524
12/07/2017 5:23	4.254	17.5	1.524
12/07/2017 5:23	4.236	17.5	1.523
12/07/2017 5:23	4.248	17.6	1.523
12/07/2017 5:23	4.446	17.6	1.525
12/07/2017 5:23	4.464	17.6	1.524
12/07/2017 5:23	4.446	17.6	1.524
12/07/2017 5:24	4.494	17.6	1.524
12/07/2017 5:24	4.644	17.6	1.528
12/07/2017 5:24	4.656	17.6	1.527
12/07/2017 5:24	4.650	17.7	1.527
12/07/2017 5:24	4.710	17.7	1.527
12/07/2017 5:24	4.854	17.7	1.529
12/07/2017 5:25	4.848	17.7	1.528
12/07/2017 5:25	4.854	17.7	1.528
12/07/2017 5:25	4.854	17.7	1.528
12/07/2017 5:25	5.046	17.7	1.532
12/07/2017 5:25	5.046	17.7	1.530
12/07/2017 5:25	5.040	17.8	1.530
12/07/2017 5:26	5.034	17.8	1.530
12/07/2017 5:26	5.046	17.8	1.530
12/07/2017 5:26	5.250	17.8	1.532
12/07/2017 5:26	5.256	17.8	1.532
12/07/2017 5:26	5.256	17.8	1.532
12/07/2017 5:26	5.478	17.8	1.534
12/07/2017 5:27	5.490	17.8	1.533
12/07/2017 5:27	5.484	17.8	1.533
12/07/2017 5:27	5.490	17.9	1.533
12/07/2017 5:27	5.652	17.9	1.534
12/07/2017 5:27	5.652	17.9	1.534
12/07/2017 5:27	5.640	17.9	1.534
12/07/2017 5:28	5.646	17.9	1.534
12/07/2017 5:28	5.814	17.9	1.534
12/07/2017 5:28	5.850	17.9	1.535
12/07/2017 5:28	5.856	17.9	1.534
12/07/2017 5:28	5.838	17.9	1.535
12/07/2017 5:28	5.832	17.9	1.534
12/07/2017 5:29	6.036	17.9	1.536
12/07/2017 5:29	6.054	18.0	1.536
12/07/2017 5:29	6.042	18.0	1.536
12/07/2017 5:29	6.198	18.0	1.538
12/07/2017 5:29	6.252	18.0	1.541
12/07/2017 5:29	6.264	18.0	1.540
12/07/2017 5:30	6.252	18.0	1.540
12/07/2017 5:30	6.438	18.0	1.563
12/07/2017 5:30	6.462	18.0	1.566
12/07/2017 5:30	6.456	18.0	1.566
12/07/2017 5:30	6.540	18.0	1.569
12/07/2017 5:30	6.654	18.0	1.595
12/07/2017 5:31	6.660	18.0	1.596
12/07/2017 5:31	6.666	18.0	1.597
12/07/2017 5:31	6.696	18.0	1.599
12/07/2017 5:31	6.822	18.0	1.605
12/07/2017 5:31	6.858	18.0	1.613
12/07/2017 5:31	6.870	18.0	1.615
12/07/2017 5:32	6.858	18.0	1.616
12/07/2017 5:32	7.050	18.0	1.627
12/07/2017 5:32	7.050	18.0	1.628
12/07/2017 5:32	7.056	18.0	1.630
12/07/2017 5:32	7.062	18.0	1.632
12/07/2017 5:32	7.224	18.0	1.646
12/07/2017 5:33	7.248	18.0	1.650
12/07/2017 5:33	7.260	18.0	1.651
12/07/2017 5:33	7.254	18.0	1.652
12/07/2017 5:33	7.428	18.0	1.655
12/07/2017 5:33	7.452	18.0	1.659
12/07/2017 5:33	7.446	18.0	1.660
12/07/2017 5:34	7.452	18.0	1.661



Borehole: ARM-GWBH04
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 2.251
Total Depth (mbgs): 23.41
Screen Interval (mbgs): 22 to 25
***Note:** Well guaged with total depth of 23.41 mbGS. Some sedimentation at the base of the well.

12/07/2017 5:34	7.536	18.0	1.672
12/07/2017 5:34	7.668	18.0	1.692
12/07/2017 5:34	7.674	18.0	1.693
12/07/2017 5:34	7.680	18.0	1.694
12/07/2017 5:34	7.818	18.0	1.706
12/07/2017 5:35	7.860	17.9	1.715
12/07/2017 5:35	7.872	17.9	1.716
12/07/2017 5:35	7.866	17.9	1.716
12/07/2017 5:35	8.046	17.9	1.740
12/07/2017 5:35	8.046	17.9	1.740
12/07/2017 5:35	8.046	17.9	1.740
12/07/2017 5:36	8.052	17.9	1.740
12/07/2017 5:36	8.238	17.9	1.765
12/07/2017 5:36	8.256	17.9	1.777
12/07/2017 5:36	8.256	17.9	1.777
12/07/2017 5:36	8.244	17.8	1.777
12/07/2017 5:36	8.268	17.8	1.777
12/07/2017 5:37	8.274	17.8	1.776
12/07/2017 5:37	8.478	17.8	1.820
12/07/2017 5:37	8.478	17.8	1.819
12/07/2017 5:37	8.472	17.8	1.818
12/07/2017 5:37	8.484	17.8	1.818
12/07/2017 5:37	8.496	17.8	1.815
12/07/2017 5:38	8.664	17.8	1.841
12/07/2017 5:38	8.658	17.8	1.840
12/07/2017 5:38	8.670	17.7	1.841
12/07/2017 5:38	8.706	17.7	1.840
12/07/2017 5:38	8.838	17.7	1.896
12/07/2017 5:38	8.856	17.7	1.899
12/07/2017 5:39	8.940	17.7	1.904
12/07/2017 5:39	9.066	17.7	1.949
12/07/2017 5:39	9.042	17.7	1.950
12/07/2017 5:39	9.054	17.7	1.950
12/07/2017 5:39	9.168	17.7	2.012
12/07/2017 5:39	9.246	17.6	2.024
12/07/2017 5:40	9.252	17.6	2.025
12/07/2017 5:40	9.246	17.6	2.026
12/07/2017 5:40	9.372	17.6	2.044
12/07/2017 5:40	9.456	17.6	2.082
12/07/2017 5:40	9.444	17.6	2.082
12/07/2017 5:40	9.444	17.6	2.081
12/07/2017 5:41	9.450	17.6	2.081
12/07/2017 5:41	9.450	17.6	2.081
12/07/2017 5:41	9.624	17.5	2.137
12/07/2017 5:41	9.624	17.5	2.157
12/07/2017 5:41	9.630	17.5	2.155
12/07/2017 5:41	9.684	17.5	2.155
12/07/2017 5:42	9.858	17.5	2.247
12/07/2017 5:42	9.846	17.5	2.246
12/07/2017 5:42	9.858	17.5	2.245
12/07/2017 5:42	9.990	17.5	2.302
12/07/2017 5:42	10.038	17.5	2.352
12/07/2017 5:42	10.032	17.5	2.353
12/07/2017 5:43	10.050	17.4	2.352
12/07/2017 5:43	10.062	17.4	2.347
12/07/2017 5:43	10.248	17.4	2.440
12/07/2017 5:43	10.242	17.4	2.439
12/07/2017 5:43	10.242	17.4	2.438
12/07/2017 5:43	10.242	17.4	2.438
12/07/2017 5:44	10.248	17.4	2.435
12/07/2017 5:44	10.452	17.4	2.526
12/07/2017 5:44	10.446	17.4	2.522
12/07/2017 5:44	10.446	17.4	2.522
12/07/2017 5:44	10.452	17.3	2.521
12/07/2017 5:44	10.452	17.3	2.520
12/07/2017 5:45	10.542	17.3	2.537
12/07/2017 5:45	10.644	17.3	2.595
12/07/2017 5:45	10.662	17.3	2.597
12/07/2017 5:45	10.632	17.3	2.595
12/07/2017 5:45	10.746	17.3	2.630
12/07/2017 5:45	10.842	17.3	2.698
12/07/2017 5:46	10.848	17.3	2.697
12/07/2017 5:46	10.854	17.3	2.696
12/07/2017 5:46	10.848	17.3	2.696
12/07/2017 5:46	10.854	17.2	2.694
12/07/2017 5:46	11.040	17.2	2.806
12/07/2017 5:46	11.058	17.2	2.819
12/07/2017 5:47	11.046	17.2	2.817
12/07/2017 5:47	11.058	17.2	2.816
12/07/2017 5:47	11.058	17.2	2.813
12/07/2017 5:47	11.058	17.2	2.812
12/07/2017 5:47	11.040	17.2	2.816
12/07/2017 5:47	11.064	17.2	2.814
12/07/2017 5:48	11.124	17.2	2.836
12/07/2017 5:48	11.250	17.2	2.870
12/07/2017 5:48	11.244	17.2	2.878
12/07/2017 5:48	11.262	17.2	2.877
12/07/2017 5:48	11.238	17.2	2.875
12/07/2017 5:48	11.382	17.1	2.947
12/07/2017 5:49	11.442	17.1	2.959
12/07/2017 5:49	11.442	17.1	2.958
12/07/2017 5:49	11.424	17.1	2.958
12/07/2017 5:49	11.574	17.1	2.990
12/07/2017 5:49	11.652	17.1	3.038
12/07/2017 5:49	11.658	17.1	3.039
12/07/2017 5:50	11.658	17.1	3.037
12/07/2017 5:50	11.856	17.1	3.093
12/07/2017 5:50	11.856	17.1	3.103
12/07/2017 5:50	11.844	17.1	3.102
12/07/2017 5:50	11.856	17.1	3.100
12/07/2017 5:50	12.012	17.0	3.148
12/07/2017 5:51	12.036	17.0	3.179
12/07/2017 5:51	12.036	17.0	3.179
12/07/2017 5:51	12.048	17.0	3.181
12/07/2017 5:51	12.180	17.0	3.208
12/07/2017 5:51	12.240	17.0	3.238
12/07/2017 5:51	12.240	17.0	3.238
12/07/2017 5:52	12.252	17.0	3.239
12/07/2017 5:52	12.432	17.0	3.267

Borehole: ARM-GWBH04
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 2.251
Total Depth (mbgs): 23.41
Screen Interval (mbgs): 22 to 25
***Note:** Well guaged with total depth of 23.41 mbGS. Some sedimentation at the base of the well.

12/07/2017 5:52	12.450	17.0	3.272
12/07/2017 5:52	12.450	17.0	3.273
12/07/2017 5:52	12.462	16.9	3.273
12/07/2017 5:52	12.612	16.9	3.301
12/07/2017 5:53	12.654	16.9	3.316
12/07/2017 5:53	12.648	16.9	3.316
12/07/2017 5:53	12.648	16.9	3.316
12/07/2017 5:53	12.762	16.9	3.347
12/07/2017 5:53	12.840	16.9	3.373
12/07/2017 5:53	12.846	16.9	3.373
12/07/2017 5:54	12.846	16.9	3.371
12/07/2017 5:54	13.056	16.9	3.429
12/07/2017 5:54	13.044	16.9	3.433
12/07/2017 5:54	13.050	16.9	3.433
12/07/2017 5:54	13.056	16.9	3.433
12/07/2017 5:54	13.212	16.8	3.458
12/07/2017 5:55	13.236	16.8	3.478
12/07/2017 5:55	13.242	16.8	3.477
12/07/2017 5:55	13.248	16.8	3.476
12/07/2017 5:55	13.398	16.8	3.528
12/07/2017 5:55	13.458	16.8	3.555
12/07/2017 5:55	13.452	16.8	3.552
12/07/2017 5:56	13.446	16.8	3.554
12/07/2017 5:56	13.644	16.8	3.630
12/07/2017 5:56	13.632	16.8	3.635
12/07/2017 5:56	13.644	16.8	3.634
12/07/2017 5:56	13.632	16.8	3.633
12/07/2017 5:56	13.794	16.8	3.688
12/07/2017 5:57	13.854	16.8	3.719
12/07/2017 5:57	13.854	16.8	3.714
12/07/2017 5:57	13.854	16.8	3.711
12/07/2017 5:57	13.854	16.8	3.710
12/07/2017 5:57	13.854	16.7	3.709
12/07/2017 5:57	13.848	16.7	3.709
12/07/2017 5:58	13.842	16.7	3.710
12/07/2017 5:58	13.926	16.7	3.735
12/07/2017 5:58	14.064	16.7	3.812
12/07/2017 5:58	14.058	16.7	3.812
12/07/2017 5:58	14.076	16.7	3.812
12/07/2017 5:58	14.214	16.7	3.846
12/07/2017 5:59	14.238	16.7	3.875
12/07/2017 5:59	14.262	16.7	3.874
12/07/2017 5:59	14.256	16.7	3.874
12/07/2017 5:59	14.430	16.7	3.950
12/07/2017 5:59	14.460	16.7	3.971
12/07/2017 5:59	14.460	16.7	3.969
12/07/2017 6:00	14.466	16.7	3.966
12/07/2017 6:00	14.652	16.7	4.035
12/07/2017 6:00	14.640	16.7	4.038
12/07/2017 6:00	14.652	16.7	4.040
12/07/2017 6:00	14.652	16.7	4.042
12/07/2017 6:00	14.856	16.7	4.113
12/07/2017 6:01	14.856	16.7	4.125
12/07/2017 6:01	14.832	16.7	4.122
12/07/2017 6:01	14.844	16.7	4.119
12/07/2017 6:01	15.012	16.7	4.160
12/07/2017 6:01	15.030	16.6	4.188
12/07/2017 6:01	15.042	16.6	4.183
12/07/2017 6:02	15.048	16.6	4.182
12/07/2017 6:02	15.252	16.6	4.220
12/07/2017 6:02	15.246	16.6	4.235
12/07/2017 6:02	15.246	16.6	4.236
12/07/2017 6:02	15.288	16.6	4.251
12/07/2017 6:02	15.372	16.6	4.277
12/07/2017 6:03	15.456	16.6	4.306
12/07/2017 6:03	15.456	16.6	4.308
12/07/2017 6:03	15.456	16.6	4.307
12/07/2017 6:03	15.462	16.6	4.306
12/07/2017 6:03	15.462	16.6	4.308
12/07/2017 6:03	15.636	16.6	4.353
12/07/2017 6:04	15.636	16.6	4.352
12/07/2017 6:04	15.660	16.6	4.353
12/07/2017 6:04	15.840	16.6	4.391
12/07/2017 6:04	15.846	16.6	4.390
12/07/2017 6:04	15.834	16.6	4.390
12/07/2017 6:04	16.044	16.6	4.433
12/07/2017 6:05	16.044	16.6	4.438
12/07/2017 6:05	16.044	16.6	4.437
12/07/2017 6:05	16.086	16.6	4.439
12/07/2017 6:05	16.236	16.6	4.479
12/07/2017 6:05	16.254	16.6	4.482
12/07/2017 6:05	16.254	16.6	4.484
12/07/2017 6:06	16.242	16.6	4.484
12/07/2017 6:06	16.410	16.6	4.500
12/07/2017 6:06	16.470	16.6	4.507
12/07/2017 6:06	16.476	16.5	4.508
12/07/2017 6:06	16.488	16.5	4.508
12/07/2017 6:06	16.626	16.5	4.523
12/07/2017 6:07	16.662	16.5	4.538
12/07/2017 6:07	16.668	16.5	4.538
12/07/2017 6:07	16.662	16.5	4.538
12/07/2017 6:07	16.812	16.5	4.557
12/07/2017 6:07	16.848	16.5	4.560
12/07/2017 6:07	16.842	16.5	4.560
12/07/2017 6:08	16.842	16.5	4.561
12/07/2017 6:08	17.010	16.5	4.578
12/07/2017 6:08	17.058	16.5	4.591
12/07/2017 6:08	17.046	16.5	4.588
12/07/2017 6:08	17.040	16.5	4.588
12/07/2017 6:08	17.076	16.5	4.588
12/07/2017 6:09	17.256	16.5	4.620
12/07/2017 6:09	17.268	16.5	4.621
12/07/2017 6:09	17.286	16.5	4.621
12/07/2017 6:09	17.454	16.5	4.645
12/07/2017 6:09	17.454	16.5	4.648
12/07/2017 6:09	17.472	16.5	4.649
12/07/2017 6:10	17.460	16.5	4.649
12/07/2017 6:10	17.604	16.5	4.659
12/07/2017 6:10	17.658	16.5	4.667

Borehole: ARM-GWBH04
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 2.251
Total Depth (mbgs): 23.41
Screen Interval (mbgs): 22 to 25
***Note:** Well guaged with total depth of 23.41 mbGS. Some sedimentation at the base of the well.

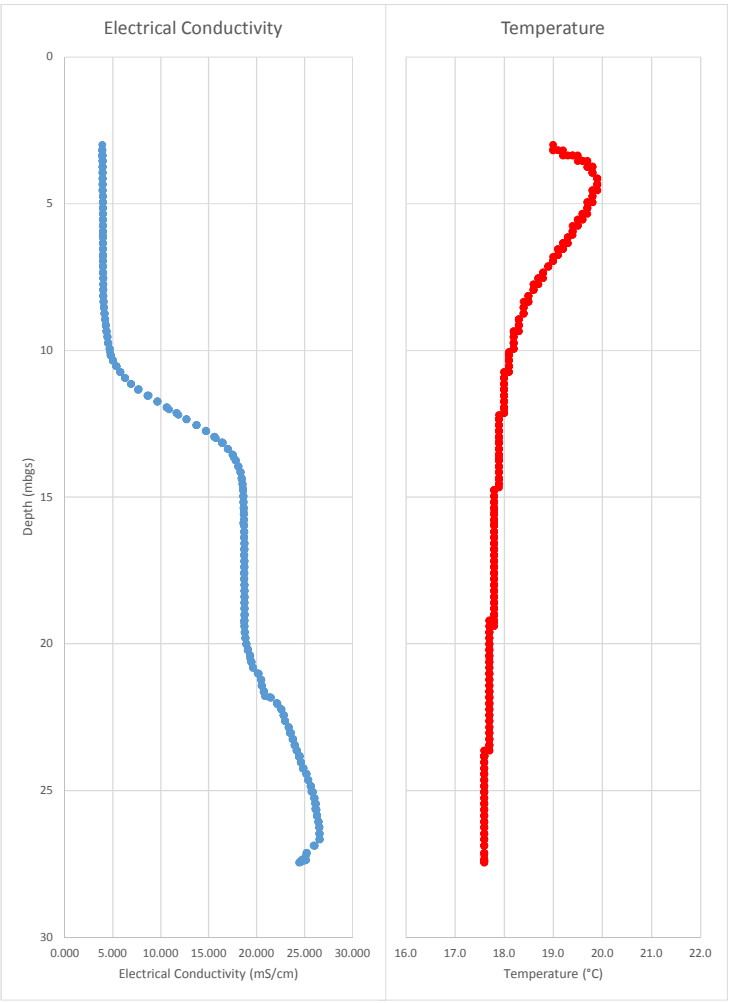
12/07/2017 6:10	17.640	16.5	4.667
12/07/2017 6:10	17.658	16.5	4.667
12/07/2017 6:10	17.850	16.5	4.681
12/07/2017 6:11	17.844	16.5	4.681
12/07/2017 6:11	17.850	16.5	4.681
12/07/2017 6:11	17.850	16.5	4.681
12/07/2017 6:11	18.042	16.5	4.705
12/07/2017 6:11	18.054	16.5	4.704
12/07/2017 6:11	18.042	16.5	4.704
12/07/2017 6:12	18.042	16.5	4.704
12/07/2017 6:12	18.192	16.5	4.724
12/07/2017 6:12	18.252	16.4	4.731
12/07/2017 6:12	18.246	16.4	4.731
12/07/2017 6:12	18.264	16.4	4.732
12/07/2017 6:12	18.450	16.4	4.755
12/07/2017 6:13	18.438	16.4	4.753
12/07/2017 6:13	18.462	16.4	4.753
12/07/2017 6:13	18.606	16.4	4.773
12/07/2017 6:13	18.594	16.4	4.775
12/07/2017 6:13	18.600	16.4	4.778
12/07/2017 6:13	18.588	16.4	4.776
12/07/2017 6:14	18.780	16.4	4.793
12/07/2017 6:14	18.840	16.4	4.808
12/07/2017 6:14	18.846	16.4	4.806
12/07/2017 6:14	18.864	16.4	4.804
12/07/2017 6:14	18.858	16.4	4.804
12/07/2017 6:14	18.858	16.4	4.804
12/07/2017 6:15	19.050	16.4	4.853
12/07/2017 6:15	19.056	16.4	4.853
12/07/2017 6:15	19.044	16.4	4.853
12/07/2017 6:15	19.086	16.4	4.862
12/07/2017 6:15	19.266	16.4	4.917
12/07/2017 6:15	19.272	16.4	4.917
12/07/2017 6:16	19.272	16.4	4.918
12/07/2017 6:16	19.452	16.4	4.940
12/07/2017 6:16	19.464	16.4	4.951
12/07/2017 6:16	19.464	16.4	4.946
12/07/2017 6:16	19.464	16.4	4.946
12/07/2017 6:16	19.464	16.4	4.945
12/07/2017 6:17	19.470	16.4	4.945
12/07/2017 6:17	19.488	16.4	4.949
12/07/2017 6:17	19.494	16.4	4.950
12/07/2017 6:17	19.638	16.4	5.037
12/07/2017 6:17	19.644	16.4	5.035
12/07/2017 6:17	19.662	16.4	5.035
12/07/2017 6:18	19.650	16.4	5.034
12/07/2017 6:18	19.818	16.4	5.090
12/07/2017 6:18	19.842	16.4	5.107
12/07/2017 6:18	19.836	16.4	5.111
12/07/2017 6:18	19.842	16.4	5.112
12/07/2017 6:18	19.842	16.4	5.112
12/07/2017 6:19	19.842	16.3	5.113
12/07/2017 6:19	19.836	16.3	5.113
12/07/2017 6:19	19.842	16.3	5.113
12/07/2017 6:19	20.022	16.3	5.191
12/07/2017 6:19	20.022	16.3	5.196
12/07/2017 6:19	20.028	16.4	5.196
12/07/2017 6:20	20.010	16.3	5.195
12/07/2017 6:20	20.256	16.3	5.368
12/07/2017 6:20	20.268	16.3	5.368
12/07/2017 6:20	20.262	16.3	5.366
12/07/2017 6:20	20.268	16.3	5.366
12/07/2017 6:20	20.436	16.3	5.528
12/07/2017 6:21	20.418	16.3	5.556
12/07/2017 6:21	20.424	16.3	5.554
12/07/2017 6:21	20.424	16.3	5.551
12/07/2017 6:21	20.424	16.3	5.553
12/07/2017 6:21	20.646	16.3	5.849
12/07/2017 6:21	20.664	16.3	5.835
12/07/2017 6:22	20.658	16.3	5.831
12/07/2017 6:22	20.688	16.3	5.843
12/07/2017 6:22	20.868	16.3	6.133
12/07/2017 6:22	20.862	16.3	6.131
12/07/2017 6:22	20.868	16.3	6.134
12/07/2017 6:22	21.024	16.3	6.436
12/07/2017 6:23	21.036	16.3	6.447
12/07/2017 6:23	21.036	16.3	6.445
12/07/2017 6:23	21.036	16.3	6.441
12/07/2017 6:23	21.036	16.3	6.437
12/07/2017 6:23	21.246	16.3	6.741
12/07/2017 6:23	21.246	16.3	6.743
12/07/2017 6:24	21.258	16.3	6.744
12/07/2017 6:24	21.366	16.3	6.772
12/07/2017 6:24	21.438	16.3	6.785
12/07/2017 6:24	21.432	16.3	6.784
12/07/2017 6:24	21.426	16.3	6.785
12/07/2017 6:24	21.636	16.3	6.788
12/07/2017 6:25	21.636	16.3	6.788
12/07/2017 6:25	21.660	16.3	6.790
12/07/2017 6:25	21.642	16.3	6.788
12/07/2017 6:25	21.834	16.3	6.793
12/07/2017 6:25	21.858	16.3	6.795
12/07/2017 6:25	21.882	16.3	6.795
12/07/2017 6:26	21.858	16.3	6.794
12/07/2017 6:26	22.002	16.3	6.792
12/07/2017 6:26	22.032	16.3	6.793
12/07/2017 6:26	22.026	16.3	6.793
12/07/2017 6:26	22.056	16.3	6.793
12/07/2017 6:26	22.236	16.3	6.790
12/07/2017 6:27	22.242	16.3	6.790
12/07/2017 6:27	22.230	16.3	6.790
12/07/2017 6:27	22.242	16.3	6.792
12/07/2017 6:27	22.446	16.3	6.792
12/07/2017 6:27	22.452	16.3	6.790
12/07/2017 6:27	22.398	16.3	6.789
12/07/2017 6:28	22.404	16.3	6.788
12/07/2017 6:28	22.656	16.3	6.789
12/07/2017 6:28	22.662	16.3	6.789
12/07/2017 6:28	22.662	16.3	6.789

Borehole: ARM-GWBH04
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 2.251
Total Depth (mbgs): 23.41
Screen Interval (mbgs): 22 to 25
***Note:** Well guaged with total depth of 23.41 mbGS. Some sedimentation at the base of the well.

12/07/2017 6:28	22.650	16.3	6.790
12/07/2017 6:28	22.866	16.3	6.688
12/07/2017 6:29	22.872	16.3	6.696
12/07/2017 6:29	22.872	16.3	6.702
12/07/2017 6:29	22.842	16.3	6.705
12/07/2017 6:29	23.160	16.3	6.578
12/07/2017 6:29	23.106	16.3	6.540
12/07/2017 6:29	23.088	16.3	6.533
12/07/2017 6:30	23.052	16.3	6.514
12/07/2017 6:30	23.406	16.3	6.368

Borehole: ID18-GWBH02
Date: 13/04/2017
Logger ID: 1072388
Initial SWL (mbgs): 2.968
Total Depth (mbgs): 27.5
Screen Interval (mbgs): 21 to 28
*__Note__: Well gauged with total depth of 27.45 mbgs. Some sedimentation at the base of the well is indicated.

DateTime	Logger Depth (mbgs)	Water Temperature (°C)	Electrical Conductivity (mS/cm)
13/04/2017 9:08	3.000	19.0	3.924
13/04/2017 9:08	3.162	19.0	3.929
13/04/2017 9:08	3.192	19.0	3.921
13/04/2017 9:08	3.186	19.1	3.919
13/04/2017 9:08	3.180	19.1	3.913
13/04/2017 9:08	3.180	19.2	3.909
13/04/2017 9:08	3.366	19.2	3.948
13/04/2017 9:08	3.360	19.2	3.941
13/04/2017 9:09	3.366	19.3	3.939
13/04/2017 9:09	3.360	19.3	3.935
13/04/2017 9:09	3.354	19.4	3.934
13/04/2017 9:09	3.366	19.4	3.931
13/04/2017 9:09	3.360	19.4	3.931
13/04/2017 9:09	3.360	19.5	3.929
13/04/2017 9:09	3.396	19.5	3.934
13/04/2017 9:09	3.558	19.5	3.959
13/04/2017 9:09	3.552	19.6	3.956
13/04/2017 9:09	3.546	19.6	3.954
13/04/2017 9:09	3.546	19.6	3.953
13/04/2017 9:09	3.540	19.6	3.951
13/04/2017 9:10	3.558	19.7	3.950
13/04/2017 9:10	3.546	19.7	3.951
13/04/2017 9:10	3.750	19.7	3.959
13/04/2017 9:10	3.756	19.7	3.958
13/04/2017 9:10	3.744	19.8	3.958
13/04/2017 9:10	3.750	19.8	3.956
13/04/2017 9:10	3.756	19.8	3.956
13/04/2017 9:10	3.744	19.8	3.956
13/04/2017 9:10	3.948	19.8	3.962
13/04/2017 9:10	3.948	19.8	3.961
13/04/2017 9:10	3.948	19.8	3.960
13/04/2017 9:10	3.948	19.8	3.960
13/04/2017 9:11	3.960	19.8	3.959
13/04/2017 9:11	4.146	19.9	3.964
13/04/2017 9:11	4.158	19.9	3.962
13/04/2017 9:11	4.146	19.9	3.961
13/04/2017 9:11	4.158	19.9	3.962
13/04/2017 9:11	4.152	19.9	3.962
13/04/2017 9:11	4.350	19.9	3.965
13/04/2017 9:11	4.350	19.9	3.967
13/04/2017 9:11	4.344	19.9	3.966
13/04/2017 9:11	4.350	19.9	3.966
13/04/2017 9:11	4.350	19.9	3.966
13/04/2017 9:11	4.554	19.9	3.970
13/04/2017 9:12	4.548	19.9	3.971
13/04/2017 9:12	4.554	19.8	3.971
13/04/2017 9:12	4.548	19.8	3.971
13/04/2017 9:12	4.542	19.8	3.971
13/04/2017 9:12	4.758	19.8	3.981
13/04/2017 9:12	4.752	19.8	3.977
13/04/2017 9:12	4.758	19.8	3.977
13/04/2017 9:12	4.752	19.8	3.979
13/04/2017 9:12	4.950	19.8	3.982
13/04/2017 9:12	4.956	19.8	3.986
13/04/2017 9:12	4.956	19.8	3.985
13/04/2017 9:12	4.950	19.7	3.984
13/04/2017 9:13	4.950	19.7	3.986
13/04/2017 9:13	5.154	19.7	3.989
13/04/2017 9:13	5.154	19.7	3.987
13/04/2017 9:13	5.148	19.7	3.987
13/04/2017 9:13	5.154	19.7	3.987
13/04/2017 9:13	5.142	19.7	3.989
13/04/2017 9:13	5.358	19.7	3.987
13/04/2017 9:13	5.346	19.6	3.989
13/04/2017 9:13	5.352	19.6	3.991
13/04/2017 9:13	5.352	19.6	3.990
13/04/2017 9:13	5.550	19.6	3.987
13/04/2017 9:13	5.550	19.6	3.989
13/04/2017 9:14	5.538	19.6	3.989
13/04/2017 9:14	5.556	19.5	3.989
13/04/2017 9:14	5.544	19.5	3.990
13/04/2017 9:14	5.748	19.5	3.989
13/04/2017 9:14	5.748	19.5	3.990
13/04/2017 9:14	5.754	19.5	3.990
13/04/2017 9:14	5.754	19.5	3.991
13/04/2017 9:14	5.754	19.4	3.991
13/04/2017 9:14	5.958	19.4	3.991
13/04/2017 9:14	5.952	19.4	3.992
13/04/2017 9:14	5.952	19.4	3.992
13/04/2017 9:14	5.940	19.4	3.994
13/04/2017 9:15	6.078	19.4	3.991
13/04/2017 9:15	6.150	19.3	3.992
13/04/2017 9:15	6.156	19.3	3.992
13/04/2017 9:15	6.150	19.3	3.994
13/04/2017 9:15	6.150	19.3	3.994
13/04/2017 9:15	6.342	19.3	3.994
13/04/2017 9:15	6.354	19.3	3.995
13/04/2017 9:15	6.348	19.2	3.996
13/04/2017 9:15	6.348	19.2	3.997
13/04/2017 9:15	6.342	19.2	3.997
13/04/2017 9:15	6.552	19.2	3.992
13/04/2017 9:15	6.546	19.2	3.994
13/04/2017 9:16	6.552	19.2	3.997
13/04/2017 9:16	6.552	19.1	3.997
13/04/2017 9:16	6.552	19.1	3.999
13/04/2017 9:16	6.756	19.1	3.994
13/04/2017 9:16	6.756	19.1	3.995
13/04/2017 9:16	6.762	19.1	3.996
13/04/2017 9:16	6.750	19.1	3.997



Borehole: ID18-GWBH02
Date: 13/04/2017
Logger ID: 1072388
Initial SWL (mbgs): 2.968
Total Depth (mbgs): 27.5
Screen Interval (mbgs): 21 to 28
*__Note__: Well gauged with total depth of 27.45 mbgs. Some sedimentation at the base of the well is indicated.

13/04/2017 9:16	6.810	19.0	3.995
13/04/2017 9:16	6.966	19.0	3.996
13/04/2017 9:16	6.954	19.0	3.996
13/04/2017 9:16	6.954	19.0	4.000
13/04/2017 9:16	6.948	19.0	4.000
13/04/2017 9:17	7.134	18.9	3.999
13/04/2017 9:17	7.146	18.9	3.999
13/04/2017 9:17	7.146	18.9	4.001
13/04/2017 9:17	7.152	18.9	4.001
13/04/2017 9:17	7.152	18.9	4.002
13/04/2017 9:17	7.350	18.8	4.005
13/04/2017 9:17	7.356	18.8	4.005
13/04/2017 9:17	7.350	18.8	4.005
13/04/2017 9:17	7.350	18.8	4.007
13/04/2017 9:17	7.356	18.8	4.009
13/04/2017 9:17	7.542	18.8	4.014
13/04/2017 9:17	7.548	18.7	4.014
13/04/2017 9:18	7.542	18.7	4.014
13/04/2017 9:18	7.548	18.7	4.015
13/04/2017 9:18	7.548	18.7	4.016
13/04/2017 9:18	7.752	18.7	4.020
13/04/2017 9:18	7.752	18.7	4.020
13/04/2017 9:18	7.752	18.6	4.020
13/04/2017 9:18	7.752	18.6	4.022
13/04/2017 9:18	7.950	18.6	4.030
13/04/2017 9:18	7.944	18.6	4.030
13/04/2017 9:18	7.932	18.6	4.031
13/04/2017 9:18	7.944	18.6	4.032
13/04/2017 9:18	7.944	18.6	4.032
13/04/2017 9:19	8.148	18.5	4.037
13/04/2017 9:19	8.154	18.5	4.037
13/04/2017 9:19	8.148	18.5	4.039
13/04/2017 9:19	8.142	18.5	4.039
13/04/2017 9:19	8.148	18.5	4.040
13/04/2017 9:19	8.352	18.5	4.057
13/04/2017 9:19	8.352	18.5	4.055
13/04/2017 9:19	8.346	18.5	4.056
13/04/2017 9:19	8.346	18.5	4.056
13/04/2017 9:19	8.346	18.4	4.058
13/04/2017 9:19	8.544	18.4	4.078
13/04/2017 9:19	8.544	18.4	4.076
13/04/2017 9:20	8.550	18.4	4.077
13/04/2017 9:20	8.544	18.4	4.076
13/04/2017 9:20	8.748	18.4	4.151
13/04/2017 9:20	8.748	18.4	4.160
13/04/2017 9:20	8.742	18.4	4.160
13/04/2017 9:20	8.748	18.4	4.161
13/04/2017 9:20	8.754	18.4	4.161
13/04/2017 9:20	8.940	18.3	4.238
13/04/2017 9:20	8.952	18.3	4.237
13/04/2017 9:20	8.940	18.3	4.237
13/04/2017 9:20	8.952	18.3	4.240
13/04/2017 9:20	8.952	18.3	4.241
13/04/2017 9:21	9.156	18.3	4.304
13/04/2017 9:21	9.162	18.3	4.294
13/04/2017 9:21	9.144	18.3	4.292
13/04/2017 9:21	9.150	18.3	4.294
13/04/2017 9:21	9.144	18.3	4.295
13/04/2017 9:21	9.354	18.3	4.374
13/04/2017 9:21	9.348	18.3	4.374
13/04/2017 9:21	9.354	18.2	4.373
13/04/2017 9:21	9.348	18.2	4.373
13/04/2017 9:21	9.378	18.2	4.380
13/04/2017 9:21	9.546	18.2	4.447
13/04/2017 9:21	9.540	18.2	4.456
13/04/2017 9:22	9.546	18.2	4.448
13/04/2017 9:22	9.546	18.2	4.451
13/04/2017 9:22	9.756	18.2	4.510
13/04/2017 9:22	9.744	18.2	4.536
13/04/2017 9:22	9.756	18.2	4.531
13/04/2017 9:22	9.750	18.2	4.530
13/04/2017 9:22	9.762	18.2	4.545
13/04/2017 9:22	9.948	18.2	4.698
13/04/2017 9:22	9.948	18.2	4.705
13/04/2017 9:22	9.954	18.2	4.699
13/04/2017 9:22	9.942	18.2	4.701
13/04/2017 9:22	10.056	18.1	4.719
13/04/2017 9:23	10.164	18.1	4.814
13/04/2017 9:23	10.170	18.1	4.810
13/04/2017 9:23	10.176	18.1	4.802
13/04/2017 9:23	10.170	18.1	4.801
13/04/2017 9:23	10.152	18.1	4.802
13/04/2017 9:23	10.344	18.1	5.020
13/04/2017 9:23	10.344	18.1	5.023
13/04/2017 9:23	10.356	18.1	5.024
13/04/2017 9:23	10.344	18.1	5.020
13/04/2017 9:23	10.350	18.1	5.039
13/04/2017 9:23	10.548	18.1	5.383
13/04/2017 9:23	10.548	18.1	5.383
13/04/2017 9:24	10.548	18.1	5.388
13/04/2017 9:24	10.542	18.1	5.390
13/04/2017 9:24	10.548	18.1	5.388
13/04/2017 9:24	10.542	18.1	5.389
13/04/2017 9:24	10.548	18.1	5.392
13/04/2017 9:24	10.542	18.1	5.390
13/04/2017 9:24	10.746	18.1	5.837
13/04/2017 9:24	10.746	18.1	5.803
13/04/2017 9:24	10.734	18.1	5.789
13/04/2017 9:24	10.746	18.0	5.787
13/04/2017 9:24	10.740	18.0	5.779
13/04/2017 9:24	10.944	18.0	6.294
13/04/2017 9:25	10.944	18.0	6.281

Borehole: ID18-GWBH02
Date: 13/04/2017
Logger ID: 1072388
Initial SWL (mbgs): 2.968
Total Depth (mbgs): 27.5
Screen Interval (mbgs): 21 to 28
*__Note__: Well gauged with total depth of 27.45 mbgs. Some sedimentation at the base of the well is indicated.

13/04/2017 9:25	10.944	18.0	6.283
13/04/2017 9:25	10.950	18.0	6.282
13/04/2017 9:25	10.950	18.0	6.281
13/04/2017 9:25	11.142	18.0	6.932
13/04/2017 9:25	11.142	18.0	6.910
13/04/2017 9:25	11.148	18.0	6.921
13/04/2017 9:25	11.142	18.0	6.928
13/04/2017 9:25	11.334	18.0	7.745
13/04/2017 9:25	11.346	18.0	7.682
13/04/2017 9:25	11.346	18.0	7.676
13/04/2017 9:25	11.340	18.0	7.673
13/04/2017 9:26	11.346	18.0	7.676
13/04/2017 9:26	11.322	18.0	7.683
13/04/2017 9:26	11.544	18.0	8.778
13/04/2017 9:26	11.550	18.0	8.671
13/04/2017 9:26	11.550	18.0	8.654
13/04/2017 9:26	11.544	18.0	8.644
13/04/2017 9:26	11.556	18.0	8.670
13/04/2017 9:26	11.748	18.0	9.668
13/04/2017 9:26	11.748	18.0	9.671
13/04/2017 9:26	11.748	18.0	9.657
13/04/2017 9:26	11.754	18.0	9.655
13/04/2017 9:26	11.736	18.0	9.704
13/04/2017 9:27	11.952	18.0	10.688
13/04/2017 9:27	11.946	18.0	10.662
13/04/2017 9:27	11.946	18.0	10.639
13/04/2017 9:27	11.958	18.0	10.643
13/04/2017 9:27	12.018	18.0	10.920
13/04/2017 9:27	12.144	18.0	11.670
13/04/2017 9:27	12.138	18.0	11.670
13/04/2017 9:27	12.144	18.0	11.675
13/04/2017 9:27	12.150	18.0	11.697
13/04/2017 9:27	12.204	17.9	11.882
13/04/2017 9:27	12.360	17.9	12.713
13/04/2017 9:27	12.348	17.9	12.702
13/04/2017 9:28	12.354	17.9	12.697
13/04/2017 9:28	12.342	17.9	12.707
13/04/2017 9:28	12.540	17.9	13.781
13/04/2017 9:28	12.552	17.9	13.749
13/04/2017 9:28	12.552	17.9	13.749
13/04/2017 9:28	12.552	17.9	13.749
13/04/2017 9:28	12.552	17.9	13.744
13/04/2017 9:28	12.750	17.9	14.763
13/04/2017 9:28	12.750	17.9	14.731
13/04/2017 9:28	12.744	17.9	14.736
13/04/2017 9:28	12.762	17.9	14.747
13/04/2017 9:28	12.756	17.9	14.768
13/04/2017 9:29	12.948	17.9	15.632
13/04/2017 9:29	12.948	17.9	15.648
13/04/2017 9:29	12.954	17.9	15.632
13/04/2017 9:29	12.948	17.9	15.632
13/04/2017 9:29	13.002	17.9	15.771
13/04/2017 9:29	13.152	17.9	16.420
13/04/2017 9:29	13.158	17.9	16.420
13/04/2017 9:29	13.152	17.9	16.430
13/04/2017 9:29	13.152	17.9	16.430
13/04/2017 9:29	13.140	17.9	16.409
13/04/2017 9:29	13.146	17.9	16.414
13/04/2017 9:29	13.152	17.9	16.436
13/04/2017 9:30	13.146	17.9	16.468
13/04/2017 9:30	13.152	17.9	16.521
13/04/2017 9:30	13.356	17.9	17.036
13/04/2017 9:30	13.356	17.9	17.025
13/04/2017 9:30	13.356	17.9	17.025
13/04/2017 9:30	13.362	17.9	17.020
13/04/2017 9:30	13.368	17.9	17.052
13/04/2017 9:30	13.560	17.9	17.539
13/04/2017 9:30	13.554	17.9	17.534
13/04/2017 9:30	13.554	17.9	17.529
13/04/2017 9:30	13.554	17.9	17.534
13/04/2017 9:30	13.662	17.9	17.663
13/04/2017 9:31	13.752	17.9	17.861
13/04/2017 9:31	13.758	17.9	17.855
13/04/2017 9:31	13.758	17.9	17.855
13/04/2017 9:31	13.764	17.9	17.855
13/04/2017 9:31	13.968	17.9	18.128
13/04/2017 9:31	13.950	17.9	18.128
13/04/2017 9:31	13.968	17.9	18.123
13/04/2017 9:31	13.962	17.9	18.123
13/04/2017 9:31	13.956	17.9	18.128
13/04/2017 9:31	14.160	17.9	18.343
13/04/2017 9:31	14.154	17.9	18.353
13/04/2017 9:31	14.160	17.9	18.343
13/04/2017 9:32	14.160	17.9	18.343
13/04/2017 9:32	14.148	17.9	18.337
13/04/2017 9:32	14.364	17.9	18.487
13/04/2017 9:32	14.364	17.9	18.471
13/04/2017 9:32	14.358	17.9	18.466
13/04/2017 9:32	14.370	17.9	18.466
13/04/2017 9:32	14.418	17.9	18.482
13/04/2017 9:32	14.562	17.9	18.567
13/04/2017 9:32	14.556	17.9	18.562
13/04/2017 9:32	14.562	17.9	18.562
13/04/2017 9:32	14.556	17.9	18.573
13/04/2017 9:32	14.676	17.9	18.583
13/04/2017 9:33	14.766	17.8	18.626
13/04/2017 9:33	14.760	17.8	18.626
13/04/2017 9:33	14.766	17.8	18.626
13/04/2017 9:33	14.772	17.8	18.632
13/04/2017 9:33	14.766	17.8	18.632
13/04/2017 9:33	14.778	17.8	18.626
13/04/2017 9:33	14.976	17.8	18.680

Borehole: ID18-GWBH02
Date: 13/04/2017
Logger ID: 1072388
Initial SWL (mbgs): 2.968
Total Depth (mbgs): 27.5
Screen Interval (mbgs): 21 to 28
*__Note__: Well gauged with total depth of 27.45 mbgs. Some sedimentation at the base of the well is indicated.

13/04/2017 9:33	14.970	17.8	18.626
13/04/2017 9:33	14.970	17.8	18.621
13/04/2017 9:33	14.976	17.8	18.610
13/04/2017 9:33	15.174	17.8	18.658
13/04/2017 9:33	15.180	17.8	18.658
13/04/2017 9:34	15.174	17.8	18.653
13/04/2017 9:34	15.162	17.8	18.653
13/04/2017 9:34	15.192	17.8	18.658
13/04/2017 9:34	15.378	17.8	18.680
13/04/2017 9:34	15.372	17.8	18.674
13/04/2017 9:34	15.372	17.8	18.674
13/04/2017 9:34	15.372	17.8	18.669
13/04/2017 9:34	15.474	17.8	18.685
13/04/2017 9:34	15.570	17.8	18.701
13/04/2017 9:34	15.582	17.8	18.690
13/04/2017 9:34	15.576	17.8	18.696
13/04/2017 9:34	15.576	17.8	18.690
13/04/2017 9:35	15.600	17.8	18.690
13/04/2017 9:35	15.774	17.8	18.712
13/04/2017 9:35	15.774	17.8	18.706
13/04/2017 9:35	15.786	17.8	18.712
13/04/2017 9:35	15.786	17.8	18.712
13/04/2017 9:35	15.888	17.8	18.615
13/04/2017 9:35	15.972	17.8	18.706
13/04/2017 9:35	15.972	17.8	18.717
13/04/2017 9:35	15.972	17.8	18.717
13/04/2017 9:35	15.978	17.8	18.717
13/04/2017 9:35	15.972	17.8	18.712
13/04/2017 9:35	16.188	17.8	18.749
13/04/2017 9:36	16.182	17.8	18.728
13/04/2017 9:36	16.182	17.8	18.728
13/04/2017 9:36	16.182	17.8	18.723
13/04/2017 9:36	16.188	17.8	18.717
13/04/2017 9:36	16.386	17.8	18.717
13/04/2017 9:36	16.380	17.8	18.723
13/04/2017 9:36	16.380	17.8	18.733
13/04/2017 9:36	16.374	17.8	18.739
13/04/2017 9:36	16.374	17.8	18.728
13/04/2017 9:36	16.584	17.8	18.755
13/04/2017 9:36	16.584	17.8	18.744
13/04/2017 9:36	16.578	17.8	18.744
13/04/2017 9:37	16.596	17.8	18.744
13/04/2017 9:37	16.578	17.8	18.744
13/04/2017 9:37	16.764	17.8	18.749
13/04/2017 9:37	16.782	17.8	18.749
13/04/2017 9:37	16.782	17.8	18.749
13/04/2017 9:37	16.776	17.8	18.733
13/04/2017 9:37	16.782	17.8	18.744
13/04/2017 9:37	16.794	17.8	18.733
13/04/2017 9:37	16.980	17.8	18.744
13/04/2017 9:37	16.986	17.8	18.723
13/04/2017 9:37	16.986	17.8	18.739
13/04/2017 9:37	16.992	17.8	18.733
13/04/2017 9:38	16.986	17.8	18.733
13/04/2017 9:38	17.178	17.8	18.765
13/04/2017 9:38	17.196	17.8	18.749
13/04/2017 9:38	17.190	17.8	18.733
13/04/2017 9:38	17.184	17.8	18.744
13/04/2017 9:38	17.184	17.8	18.744
13/04/2017 9:38	17.364	17.8	18.760
13/04/2017 9:38	17.382	17.8	18.739
13/04/2017 9:38	17.388	17.8	18.749
13/04/2017 9:38	17.382	17.8	18.739
13/04/2017 9:38	17.394	17.8	18.749
13/04/2017 9:38	17.592	17.8	18.749
13/04/2017 9:39	17.592	17.8	18.739
13/04/2017 9:39	17.592	17.8	18.739
13/04/2017 9:39	17.586	17.8	18.739
13/04/2017 9:39	17.592	17.8	18.744
13/04/2017 9:39	17.616	17.8	18.733
13/04/2017 9:39	17.796	17.8	18.739
13/04/2017 9:39	17.790	17.8	18.739
13/04/2017 9:39	17.790	17.8	18.744
13/04/2017 9:39	17.796	17.8	18.733
13/04/2017 9:39	17.790	17.8	18.733
13/04/2017 9:39	18.000	17.8	18.744
13/04/2017 9:39	18.000	17.8	18.744
13/04/2017 9:40	17.994	17.8	18.755
13/04/2017 9:40	18.006	17.8	18.744
13/04/2017 9:40	18.000	17.8	18.749
13/04/2017 9:40	18.192	17.8	18.776
13/04/2017 9:40	18.204	17.8	18.760
13/04/2017 9:40	18.204	17.8	18.765
13/04/2017 9:40	18.204	17.8	18.755
13/04/2017 9:40	18.198	17.8	18.760
13/04/2017 9:40	18.426	17.8	18.776
13/04/2017 9:40	18.402	17.8	18.765
13/04/2017 9:40	18.396	17.8	18.760
13/04/2017 9:40	18.396	17.8	18.765
13/04/2017 9:41	18.402	17.8	18.771
13/04/2017 9:41	18.618	17.8	18.755
13/04/2017 9:41	18.606	17.8	18.765
13/04/2017 9:41	18.606	17.8	18.765
13/04/2017 9:41	18.600	17.8	18.765
13/04/2017 9:41	18.588	17.8	18.765
13/04/2017 9:41	18.810	17.8	18.771
13/04/2017 9:41	18.804	17.8	18.760
13/04/2017 9:41	18.804	17.8	18.776
13/04/2017 9:41	18.804	17.8	18.765
13/04/2017 9:41	18.798	17.8	18.760
13/04/2017 9:41	19.014	17.8	18.760
13/04/2017 9:42	19.002	17.8	18.765

Borehole: ID18-GWBH02
Date: 13/04/2017
Logger ID: 1072388
Initial SWL (mbgs): 2.968
Total Depth (mbgs): 27.5
Screen Interval (mbgs): 21 to 28
*__Note__: Well gauged with total depth of 27.45 mbgs. Some sedimentation at the base of the well is indicated.

13/04/2017 9:42	19.002	17.8	18.776
13/04/2017 9:42	19.008	17.8	18.781
13/04/2017 9:42	19.008	17.8	18.776
13/04/2017 9:42	19.044	17.8	18.771
13/04/2017 9:42	19.212	17.8	18.765
13/04/2017 9:42	19.206	17.8	18.765
13/04/2017 9:42	19.212	17.7	18.765
13/04/2017 9:42	19.218	17.7	18.765
13/04/2017 9:42	19.212	17.7	18.771
13/04/2017 9:42	19.284	17.8	18.739
13/04/2017 9:42	19.404	17.8	18.765
13/04/2017 9:43	19.404	17.7	18.771
13/04/2017 9:43	19.404	17.7	18.760
13/04/2017 9:43	19.404	17.7	18.771
13/04/2017 9:43	19.602	17.7	18.781
13/04/2017 9:43	19.614	17.7	18.781
13/04/2017 9:43	19.614	17.7	18.787
13/04/2017 9:43	19.608	17.7	18.781
13/04/2017 9:43	19.614	17.7	18.781
13/04/2017 9:43	19.614	17.7	18.792
13/04/2017 9:43	19.812	17.7	18.862
13/04/2017 9:43	19.806	17.7	18.846
13/04/2017 9:43	19.812	17.7	18.846
13/04/2017 9:44	19.812	17.7	18.851
13/04/2017 9:44	19.812	17.7	18.846
13/04/2017 9:44	20.016	17.7	18.969
13/04/2017 9:44	20.010	17.7	18.942
13/04/2017 9:44	20.022	17.7	18.947
13/04/2017 9:44	20.010	17.7	18.953
13/04/2017 9:44	20.016	17.7	18.942
13/04/2017 9:44	20.178	17.7	19.113
13/04/2017 9:44	20.208	17.7	19.113
13/04/2017 9:44	20.220	17.7	19.119
13/04/2017 9:44	20.220	17.7	19.113
13/04/2017 9:44	20.220	17.7	19.103
13/04/2017 9:45	20.388	17.7	19.338
13/04/2017 9:45	20.412	17.7	19.354
13/04/2017 9:45	20.412	17.7	19.354
13/04/2017 9:45	20.418	17.7	19.349
13/04/2017 9:45	20.418	17.7	19.349
13/04/2017 9:45	20.508	17.7	19.349
13/04/2017 9:45	20.622	17.7	19.472
13/04/2017 9:45	20.616	17.7	19.493
13/04/2017 9:45	20.622	17.7	19.477
13/04/2017 9:45	20.622	17.7	19.477
13/04/2017 9:45	20.634	17.7	19.493
13/04/2017 9:45	20.826	17.7	19.664
13/04/2017 9:46	20.814	17.7	19.654
13/04/2017 9:46	20.814	17.7	19.654
13/04/2017 9:46	20.820	17.7	19.648
13/04/2017 9:46	21.006	17.7	20.130
13/04/2017 9:46	21.024	17.7	20.237
13/04/2017 9:46	21.024	17.7	20.199
13/04/2017 9:46	21.030	17.7	20.221
13/04/2017 9:46	21.024	17.7	20.221
13/04/2017 9:46	21.030	17.7	20.231
13/04/2017 9:46	21.234	17.7	20.536
13/04/2017 9:46	21.228	17.7	20.488
13/04/2017 9:46	21.222	17.7	20.499
13/04/2017 9:47	21.228	17.7	20.493
13/04/2017 9:47	21.222	17.7	20.493
13/04/2017 9:47	21.432	17.7	20.584
13/04/2017 9:47	21.432	17.7	20.563
13/04/2017 9:47	21.426	17.7	20.557
13/04/2017 9:47	21.432	17.7	20.563
13/04/2017 9:47	21.426	17.7	20.557
13/04/2017 9:47	21.618	17.7	20.787
13/04/2017 9:47	21.630	17.7	20.777
13/04/2017 9:47	21.636	17.7	20.777
13/04/2017 9:47	21.630	17.7	20.782
13/04/2017 9:47	21.630	17.7	20.782
13/04/2017 9:48	21.630	17.7	20.787
13/04/2017 9:48	21.630	17.7	20.798
13/04/2017 9:48	21.792	17.7	20.894
13/04/2017 9:48	21.828	17.7	21.402
13/04/2017 9:48	21.828	17.7	21.397
13/04/2017 9:48	21.840	17.7	21.455
13/04/2017 9:48	21.834	17.7	21.482
13/04/2017 9:48	21.834	17.7	21.498
13/04/2017 9:48	21.840	17.7	21.536
13/04/2017 9:48	22.026	17.7	22.145
13/04/2017 9:48	22.032	17.7	22.166
13/04/2017 9:48	22.032	17.7	22.166
13/04/2017 9:49	22.032	17.7	22.166
13/04/2017 9:49	22.032	17.7	22.171
13/04/2017 9:49	22.074	17.7	22.219
13/04/2017 9:49	22.236	17.7	22.599
13/04/2017 9:49	22.230	17.7	22.604
13/04/2017 9:49	22.242	17.7	22.615
13/04/2017 9:49	22.242	17.7	22.604
13/04/2017 9:49	22.242	17.7	22.636
13/04/2017 9:49	22.440	17.7	22.855
13/04/2017 9:49	22.440	17.7	22.844
13/04/2017 9:49	22.440	17.7	22.839
13/04/2017 9:49	22.434	17.7	22.844
13/04/2017 9:50	22.434	17.7	22.898
13/04/2017 9:50	22.632	17.7	23.004
13/04/2017 9:50	22.638	17.7	23.004
13/04/2017 9:50	22.644	17.7	22.999
13/04/2017 9:50	22.638	17.7	23.004
13/04/2017 9:50	22.638	17.7	23.010
13/04/2017 9:50	22.848	17.7	23.389

Borehole: ID18-GWBH02
Date: 13/04/2017
Logger ID: 1072388
Initial SWL (mbgs): 2.968
Total Depth (mbgs): 27.5
Screen Interval (mbgs): 21 to 28
*__Note__: Well gauged with total depth of 27.45 mbgs. Some sedimentation at the base of the well is indicated.

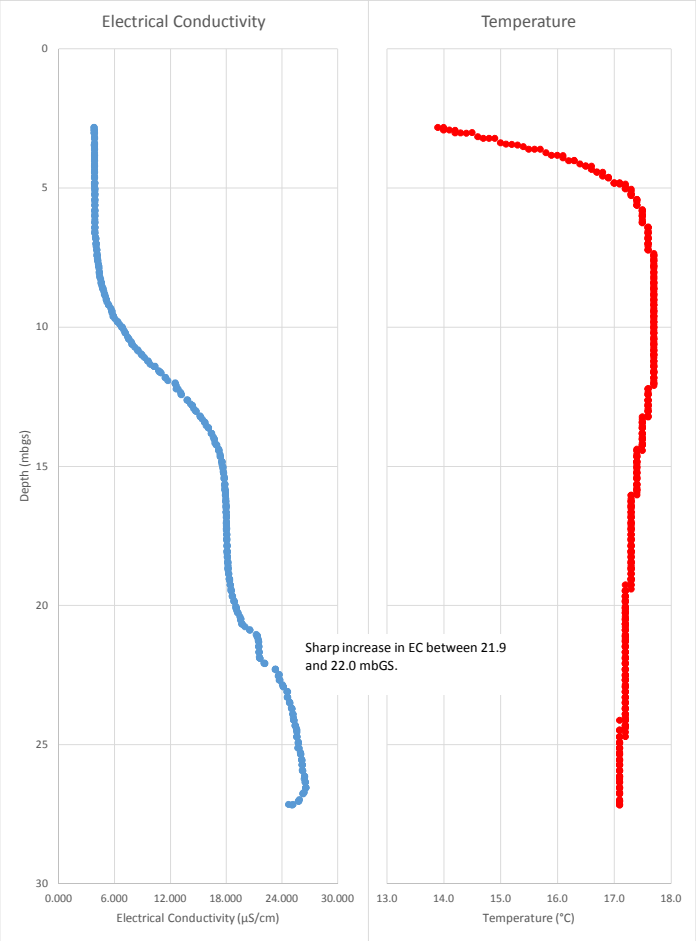
13/04/2017 9:50	22.842	17.7	23.378
13/04/2017 9:50	22.848	17.7	23.373
13/04/2017 9:50	22.848	17.7	23.367
13/04/2017 9:50	23.040	17.7	23.634
13/04/2017 9:50	23.040	17.7	23.517
13/04/2017 9:51	23.046	17.7	23.528
13/04/2017 9:51	23.046	17.7	23.517
13/04/2017 9:51	23.040	17.7	23.528
13/04/2017 9:51	23.256	17.7	23.773
13/04/2017 9:51	23.250	17.7	23.842
13/04/2017 9:51	23.256	17.7	23.816
13/04/2017 9:51	23.250	17.7	23.826
13/04/2017 9:51	23.256	17.7	23.842
13/04/2017 9:51	23.262	17.7	23.832
13/04/2017 9:51	23.454	17.7	24.013
13/04/2017 9:51	23.454	17.7	23.992
13/04/2017 9:51	23.448	17.7	23.997
13/04/2017 9:52	23.460	17.7	23.992
13/04/2017 9:52	23.454	17.7	23.987
13/04/2017 9:52	23.466	17.7	23.997
13/04/2017 9:52	23.646	17.6	24.248
13/04/2017 9:52	23.634	17.7	24.184
13/04/2017 9:52	23.634	17.7	24.232
13/04/2017 9:52	23.634	17.6	24.232
13/04/2017 9:52	23.652	17.7	24.248
13/04/2017 9:52	23.844	17.6	24.456
13/04/2017 9:52	23.832	17.6	24.461
13/04/2017 9:52	23.838	17.6	24.440
13/04/2017 9:52	23.838	17.6	24.440
13/04/2017 9:53	23.838	17.6	24.445
13/04/2017 9:53	23.832	17.6	24.451
13/04/2017 9:53	23.844	17.6	24.451
13/04/2017 9:53	23.844	17.6	24.461
13/04/2017 9:53	23.832	17.6	24.472
13/04/2017 9:53	23.838	17.6	24.467
13/04/2017 9:53	23.844	17.6	24.467
13/04/2017 9:53	23.838	17.6	24.488
13/04/2017 9:53	23.838	17.6	24.488
13/04/2017 9:53	23.844	17.6	24.472
13/04/2017 9:53	23.832	17.6	24.472
13/04/2017 9:53	23.838	17.6	24.472
13/04/2017 9:54	23.838	17.6	24.488
13/04/2017 9:54	23.838	17.6	24.493
13/04/2017 9:54	23.832	17.6	24.493
13/04/2017 9:54	23.832	17.6	24.509
13/04/2017 9:54	23.832	17.6	24.509
13/04/2017 9:54	23.838	17.6	24.504
13/04/2017 9:54	23.832	17.6	24.531
13/04/2017 9:54	23.838	17.6	24.520
13/04/2017 9:54	24.048	17.6	24.632
13/04/2017 9:54	24.036	17.6	24.653
13/04/2017 9:54	24.042	17.6	24.659
13/04/2017 9:54	24.036	17.6	24.659
13/04/2017 9:55	24.030	17.6	24.648
13/04/2017 9:55	24.258	17.6	24.846
13/04/2017 9:55	24.252	17.6	24.947
13/04/2017 9:55	24.246	17.6	24.920
13/04/2017 9:55	24.246	17.6	24.915
13/04/2017 9:55	24.252	17.6	24.894
13/04/2017 9:55	24.438	17.6	25.203
13/04/2017 9:55	24.444	17.6	25.240
13/04/2017 9:55	24.444	17.6	25.219
13/04/2017 9:55	24.438	17.6	25.240
13/04/2017 9:55	24.444	17.6	25.230
13/04/2017 9:55	24.648	17.6	25.421
13/04/2017 9:56	24.642	17.6	25.432
13/04/2017 9:56	24.654	17.6	25.400
13/04/2017 9:56	24.648	17.6	25.416
13/04/2017 9:56	24.636	17.6	25.411
13/04/2017 9:56	24.870	17.6	25.661
13/04/2017 9:56	24.858	17.6	25.699
13/04/2017 9:56	24.852	17.6	25.667
13/04/2017 9:56	24.852	17.6	25.677
13/04/2017 9:56	24.852	17.6	25.667
13/04/2017 9:56	24.846	17.6	25.672
13/04/2017 9:56	25.050	17.6	25.752
13/04/2017 9:56	25.056	17.6	25.880
13/04/2017 9:57	25.056	17.6	25.864
13/04/2017 9:57	25.056	17.6	25.864
13/04/2017 9:57	25.056	17.6	25.859
13/04/2017 9:57	25.056	17.6	25.859
13/04/2017 9:57	25.068	17.6	25.880
13/04/2017 9:57	25.260	17.6	26.008
13/04/2017 9:57	25.260	17.6	26.083
13/04/2017 9:57	25.260	17.6	26.083
13/04/2017 9:57	25.260	17.6	26.077
13/04/2017 9:57	25.440	17.6	26.120
13/04/2017 9:57	25.464	17.6	26.200
13/04/2017 9:57	25.464	17.6	26.216
13/04/2017 9:58	25.458	17.6	26.205
13/04/2017 9:58	25.452	17.6	26.210
13/04/2017 9:58	25.638	17.6	26.146
13/04/2017 9:58	25.668	17.6	26.280
13/04/2017 9:58	25.656	17.6	26.269
13/04/2017 9:58	25.668	17.6	26.232
13/04/2017 9:58	25.668	17.6	26.253
13/04/2017 9:58	25.872	17.6	26.301
13/04/2017 9:58	25.854	17.6	26.354
13/04/2017 9:58	25.866	17.6	26.333
13/04/2017 9:58	25.860	17.6	26.354
13/04/2017 9:58	25.866	17.6	26.333
13/04/2017 9:59	26.070	17.6	26.520

Borehole: ID18-GWBH02
Date: 13/04/2017
Logger ID: 1072388
Initial SWL (mbgs): 2.968
Total Depth (mbgs): 27.5
Screen Interval (mbgs): 21 to 28
*__Note__: Well gauged with total depth of 27.45 mbgs. Some sedimentation at the base of the well is indicated.

13/04/2017 9:59	26.064	17.6	26.472
13/04/2017 9:59	26.070	17.6	26.477
13/04/2017 9:59	26.070	17.6	26.482
13/04/2017 9:59	26.070	17.6	26.482
13/04/2017 9:59	26.076	17.6	26.488
13/04/2017 9:59	26.250	17.6	26.567
13/04/2017 9:59	26.268	17.6	26.567
13/04/2017 9:59	26.268	17.6	26.557
13/04/2017 9:59	26.268	17.6	26.567
13/04/2017 9:59	26.256	17.6	26.573
13/04/2017 9:59	26.472	17.6	26.599
13/04/2017 10:00	26.472	17.6	26.578
13/04/2017 10:00	26.472	17.6	26.583
13/04/2017 10:00	26.478	17.6	26.594
13/04/2017 10:00	26.490	17.6	26.583
13/04/2017 10:00	26.670	17.6	26.594
13/04/2017 10:00	26.670	17.6	26.599
13/04/2017 10:00	26.670	17.6	26.589
13/04/2017 10:00	26.670	17.6	26.605
13/04/2017 10:00	26.670	17.6	26.594
13/04/2017 10:00	26.874	17.6	25.987
13/04/2017 10:00	26.886	17.6	26.072
13/04/2017 10:00	26.886	17.6	26.088
13/04/2017 10:01	26.880	17.6	26.077
13/04/2017 10:01	26.886	17.6	26.056
13/04/2017 10:01	27.156	17.6	25.240
13/04/2017 10:01	27.132	17.6	25.240
13/04/2017 10:01	27.132	17.6	25.246
13/04/2017 10:01	27.126	17.6	25.262
13/04/2017 10:01	27.210	17.6	25.208
13/04/2017 10:01	27.378	17.6	25.219
13/04/2017 10:01	27.336	17.6	25.054
13/04/2017 10:01	27.396	17.6	24.990
13/04/2017 10:01	27.366	17.6	24.846
13/04/2017 10:01	27.342	17.6	24.803
13/04/2017 10:02	27.426	17.6	24.691
13/04/2017 10:02	27.390	17.6	24.670
13/04/2017 10:02	27.444	17.6	24.632
13/04/2017 10:02	27.444	17.6	24.605
13/04/2017 10:02	27.414	17.6	24.611
13/04/2017 10:02	27.432	17.6	24.595
13/04/2017 10:02	27.438	17.6	24.579
13/04/2017 10:02	27.450	17.6	24.504
13/04/2017 10:02	27.462	17.6	24.456
13/04/2017 10:02	27.480	17.6	24.435
13/04/2017 10:02	27.480	17.6	24.424
13/04/2017 10:02	27.432	17.6	24.424
13/04/2017 10:03	27.420	17.6	24.387
13/04/2017 10:03	27.414	17.6	24.344
13/04/2017 10:03	27.408	17.6	24.301
13/04/2017 10:03	27.486	17.6	24.285
13/04/2017 10:03	27.492	17.6	24.264
13/04/2017 10:03	27.504	17.6	24.269
13/04/2017 10:03	27.504	17.6	24.269
13/04/2017 10:03	27.510	17.6	24.248
13/04/2017 10:03	27.522	17.6	24.248
13/04/2017 10:03	27.510	17.6	24.243
13/04/2017 10:03	27.516	17.6	24.243
13/04/2017 10:03	27.510	17.6	24.237
13/04/2017 10:04	27.516	17.6	24.243
13/04/2017 10:04	27.528	17.6	24.237
13/04/2017 10:04	27.498	17.6	24.248
13/04/2017 10:04	27.420	17.6	24.509
13/04/2017 10:04	27.504	17.6	23.842
13/04/2017 10:04	27.504	17.6	23.629
13/04/2017 10:04	27.534	17.6	23.544
13/04/2017 10:04	27.456	17.6	23.480

Borehole: ID18-GWBH02
Date: 10/05/2017
Logger ID: 1072388
Initial SWL (mbgs): 2.801
Total Depth (mbgs): 27.2
Screen Interval (mbgs): 21 to 28
***Note:** Well gauged with total depth of 27.2 mbGS. Some sedimentation at the base of the well.

DateTime	Logger Depth (mbGS)	Water Temperature (°C)	Electrical Conductivity (mS/cm)
10/07/2017 15:04	2.830	13.9	3.855
10/07/2017 15:04	2.830	14.0	3.818
10/07/2017 15:04	2.920	14.0	3.849
10/07/2017 15:04	2.926	14.1	3.844
10/07/2017 15:04	2.932	14.2	3.832
10/07/2017 15:04	3.028	14.2	3.864
10/07/2017 15:04	3.028	14.3	3.855
10/07/2017 15:05	3.034	14.4	3.846
10/07/2017 15:05	3.016	14.5	3.841
10/07/2017 15:05	3.160	14.6	3.888
10/07/2017 15:05	3.226	14.7	3.879
10/07/2017 15:05	3.226	14.8	3.874
10/07/2017 15:05	3.226	14.9	3.869
10/07/2017 15:05	3.388	15.0	3.873
10/07/2017 15:05	3.424	15.1	3.865
10/07/2017 15:05	3.442	15.2	3.860
10/07/2017 15:05	3.466	15.3	3.856
10/07/2017 15:05	3.520	15.4	3.866
10/07/2017 15:05	3.616	15.5	3.871
10/07/2017 15:06	3.610	15.6	3.866
10/07/2017 15:06	3.610	15.7	3.865
10/07/2017 15:06	3.736	15.8	3.878
10/07/2017 15:06	3.832	15.9	3.877
10/07/2017 15:06	3.826	16.0	3.874
10/07/2017 15:06	3.838	16.1	3.871
10/07/2017 15:06	3.922	16.1	3.884
10/07/2017 15:06	4.024	16.2	3.883
10/07/2017 15:06	4.018	16.3	3.880
10/07/2017 15:06	4.030	16.3	3.878
10/07/2017 15:06	4.144	16.4	3.884
10/07/2017 15:06	4.210	16.5	3.883
10/07/2017 15:07	4.222	16.5	3.880
10/07/2017 15:07	4.222	16.6	3.879
10/07/2017 15:07	4.342	16.6	3.887
10/07/2017 15:07	4.444	16.7	3.888
10/07/2017 15:07	4.432	16.7	3.885
10/07/2017 15:07	4.438	16.8	3.884
10/07/2017 15:07	4.576	16.8	3.889
10/07/2017 15:07	4.624	16.9	3.889
10/07/2017 15:07	4.630	16.9	3.889
10/07/2017 15:07	4.648	16.9	3.889
10/07/2017 15:07	4.834	17.0	3.894
10/07/2017 15:07	4.822	17.0	3.893
10/07/2017 15:08	4.834	17.0	3.890
10/07/2017 15:08	4.828	17.1	3.890
10/07/2017 15:08	4.822	17.1	3.890
10/07/2017 15:08	4.846	17.1	3.890
10/07/2017 15:08	4.864	17.1	3.889
10/07/2017 15:08	4.864	17.2	3.889
10/07/2017 15:08	4.936	17.2	3.890
10/07/2017 15:08	5.038	17.2	3.895
10/07/2017 15:08	5.020	17.2	3.894
10/07/2017 15:08	5.050	17.3	3.893
10/07/2017 15:08	5.122	17.3	3.895
10/07/2017 15:08	5.218	17.3	3.898
10/07/2017 15:09	5.230	17.3	3.897
10/07/2017 15:09	5.224	17.3	3.897
10/07/2017 15:09	5.278	17.3	3.897
10/07/2017 15:09	5.428	17.4	3.899
10/07/2017 15:09	5.422	17.4	3.901
10/07/2017 15:09	5.434	17.4	3.898
10/07/2017 15:09	5.494	17.4	3.898
10/07/2017 15:09	5.620	17.4	3.903
10/07/2017 15:09	5.614	17.4	3.902
10/07/2017 15:09	5.626	17.4	3.901
10/07/2017 15:09	5.782	17.5	3.903
10/07/2017 15:09	5.812	17.5	3.903
10/07/2017 15:10	5.830	17.5	3.904
10/07/2017 15:10	5.830	17.5	3.902
10/07/2017 15:10	5.938	17.5	3.903
10/07/2017 15:10	6.010	17.5	3.901
10/07/2017 15:10	6.022	17.5	3.902
10/07/2017 15:10	6.010	17.5	3.903
10/07/2017 15:10	6.142	17.5	3.903
10/07/2017 15:10	6.232	17.5	3.904
10/07/2017 15:10	6.232	17.5	3.903
10/07/2017 15:10	6.262	17.5	3.903
10/07/2017 15:10	6.406	17.6	3.907
10/07/2017 15:10	6.418	17.6	3.906
10/07/2017 15:11	6.430	17.6	3.903
10/07/2017 15:11	6.430	17.6	3.904
10/07/2017 15:11	6.544	17.6	3.904
10/07/2017 15:11	6.610	17.6	3.902
10/07/2017 15:11	6.616	17.6	3.904
10/07/2017 15:11	6.622	17.6	3.903
10/07/2017 15:11	6.760	17.6	3.984
10/07/2017 15:11	6.814	17.6	4.018
10/07/2017 15:11	6.826	17.6	4.012
10/07/2017 15:11	6.838	17.6	4.009
10/07/2017 15:11	6.994	17.6	4.059
10/07/2017 15:11	7.000	17.6	4.057
10/07/2017 15:12	7.012	17.6	4.056
10/07/2017 15:12	7.012	17.6	4.055
10/07/2017 15:12	7.102	17.6	4.061
10/07/2017 15:12	7.222	17.6	4.117
10/07/2017 15:12	7.228	17.6	4.117
10/07/2017 15:12	7.234	17.6	4.116
10/07/2017 15:12	7.360	17.7	4.147
10/07/2017 15:12	7.432	17.7	4.160
10/07/2017 15:12	7.432	17.7	4.155
10/07/2017 15:12	7.432	17.7	4.154
10/07/2017 15:12	7.540	17.7	4.173
10/07/2017 15:12	7.624	17.7	4.212
10/07/2017 15:13	7.582	17.7	4.204
10/07/2017 15:13	7.624	17.7	4.235
10/07/2017 15:13	7.732	17.7	4.293



Borehole: ID18-GWBH02
Date: 10/05/2017
Logger ID: 1072388
Initial SWL (mbgs): 2.801
Total Depth (mbgs): 27.2
Screen Interval (mbgs): 21 to 28
***Note:** Well gauged with total depth of 27.2 mbGS. Some sedimentation at the base of the well.

10/07/2017 15:13	7.810	17.7	4.317
10/07/2017 15:13	7.822	17.7	4.317
10/07/2017 15:13	7.810	17.7	4.313
10/07/2017 15:13	7.888	17.7	4.358
10/07/2017 15:13	8.014	17.7	4.407
10/07/2017 15:13	8.026	17.7	4.406
10/07/2017 15:13	8.080	17.7	4.406
10/07/2017 15:13	8.182	17.7	4.442
10/07/2017 15:13	8.224	17.7	4.466
10/07/2017 15:14	8.284	17.7	4.542
10/07/2017 15:14	8.392	17.7	4.601
10/07/2017 15:14	8.404	17.7	4.603
10/07/2017 15:14	8.410	17.7	4.602
10/07/2017 15:14	8.446	17.7	4.610
10/07/2017 15:14	8.524	17.7	4.664
10/07/2017 15:14	8.596	17.7	4.756
10/07/2017 15:14	8.632	17.7	4.774
10/07/2017 15:14	8.626	17.7	4.767
10/07/2017 15:14	8.626	17.7	4.764
10/07/2017 15:14	8.722	17.7	4.869
10/07/2017 15:14	8.836	17.7	4.960
10/07/2017 15:15	8.812	17.7	4.947
10/07/2017 15:15	8.830	17.7	4.941
10/07/2017 15:15	8.908	17.7	5.051
10/07/2017 15:15	9.016	17.7	5.158
10/07/2017 15:15	9.022	17.7	5.145
10/07/2017 15:15	9.022	17.7	5.140
10/07/2017 15:15	9.106	17.7	5.217
10/07/2017 15:15	9.208	17.7	5.383
10/07/2017 15:15	9.208	17.7	5.382
10/07/2017 15:15	9.220	17.7	5.382
10/07/2017 15:15	9.328	17.7	5.620
10/07/2017 15:15	9.436	17.7	5.730
10/07/2017 15:16	9.418	17.7	5.726
10/07/2017 15:16	9.424	17.7	5.720
10/07/2017 15:16	9.502	17.7	5.752
10/07/2017 15:16	9.604	17.7	5.898
10/07/2017 15:16	9.604	17.7	5.897
10/07/2017 15:16	9.634	17.7	5.888
10/07/2017 15:16	9.712	17.7	6.092
10/07/2017 15:16	9.814	17.7	6.393
10/07/2017 15:16	9.820	17.7	6.370
10/07/2017 15:16	9.814	17.7	6.336
10/07/2017 15:16	9.916	17.7	6.598
10/07/2017 15:16	10.006	17.7	6.860
10/07/2017 15:17	10.006	17.7	6.835
10/07/2017 15:17	10.018	17.7	6.815
10/07/2017 15:17	10.120	17.7	7.058
10/07/2017 15:17	10.210	17.7	7.177
10/07/2017 15:17	10.216	17.7	7.172
10/07/2017 15:17	10.216	17.7	7.166
10/07/2017 15:17	10.354	17.7	7.437
10/07/2017 15:17	10.420	17.7	7.559
10/07/2017 15:17	10.444	17.7	7.555
10/07/2017 15:17	10.426	17.7	7.552
10/07/2017 15:17	10.540	17.7	7.838
10/07/2017 15:17	10.624	17.7	7.942
10/07/2017 15:18	10.624	17.7	7.908
10/07/2017 15:18	10.612	17.7	7.888
10/07/2017 15:18	10.732	17.7	8.219
10/07/2017 15:18	10.834	17.7	8.547
10/07/2017 15:18	10.828	17.7	8.523
10/07/2017 15:18	10.858	17.7	8.509
10/07/2017 15:18	10.966	17.7	8.863
10/07/2017 15:18	11.014	17.7	8.987
10/07/2017 15:18	10.996	17.7	8.966
10/07/2017 15:18	11.014	17.7	8.964
10/07/2017 15:18	11.104	17.7	9.254
10/07/2017 15:18	11.224	17.7	9.668
10/07/2017 15:19	11.230	17.7	9.618
10/07/2017 15:19	11.230	17.7	9.597
10/07/2017 15:19	11.338	17.7	9.869
10/07/2017 15:19	11.416	17.7	10.368
10/07/2017 15:19	11.422	17.7	10.292
10/07/2017 15:19	11.422	17.7	10.283
10/07/2017 15:19	11.572	17.7	10.775
10/07/2017 15:19	11.614	17.7	10.933
10/07/2017 15:19	11.614	17.7	10.900
10/07/2017 15:19	11.620	17.7	10.875
10/07/2017 15:19	11.650	17.7	11.049
10/07/2017 15:19	11.818	17.7	11.519
10/07/2017 15:20	11.824	17.7	11.503
10/07/2017 15:20	11.824	17.7	11.470
10/07/2017 15:20	11.932	17.7	11.752
10/07/2017 15:20	12.010	17.7	12.553
10/07/2017 15:20	12.034	17.7	12.569
10/07/2017 15:20	12.028	17.7	12.547
10/07/2017 15:20	12.106	17.7	12.653
10/07/2017 15:20	12.214	17.6	12.718
10/07/2017 15:20	12.232	17.6	12.874
10/07/2017 15:20	12.226	17.6	12.657
10/07/2017 15:20	12.352	17.6	13.142
10/07/2017 15:20	12.424	17.6	13.223
10/07/2017 15:21	12.430	17.6	13.218
10/07/2017 15:21	12.424	17.6	13.223
10/07/2017 15:21	12.622	17.6	13.845
10/07/2017 15:21	12.634	17.6	13.890
10/07/2017 15:21	12.646	17.6	13.880
10/07/2017 15:21	12.628	17.6	13.860
10/07/2017 15:21	12.772	17.6	14.199
10/07/2017 15:21	12.826	17.6	14.432
10/07/2017 15:21	12.832	17.6	14.401
10/07/2017 15:21	12.826	17.6	14.381
10/07/2017 15:21	12.946	17.6	14.553
10/07/2017 15:21	13.024	17.6	14.781
10/07/2017 15:22	13.030	17.6	14.781
10/07/2017 15:22	13.024	17.6	14.761
10/07/2017 15:22	13.192	17.6	15.197
10/07/2017 15:22	13.234	17.6	15.288

Borehole: ID18-GWBH02
Date: 10/05/2017
Logger ID: 1072388
Initial SWL (mbgs): 2.801
Total Depth (mbgs): 27.2
Screen Interval (mbgs): 21 to 28
***Note:** Well gauged with total depth of 27.2 mbGS. Some sedimentation at the base of the well.

10/07/2017 15:22	13.228	17.6	15.283
10/07/2017 15:22	13.234	17.5	15.268
10/07/2017 15:22	13.324	17.5	15.486
10/07/2017 15:22	13.426	17.5	15.750
10/07/2017 15:22	13.426	17.5	15.719
10/07/2017 15:22	13.432	17.5	15.709
10/07/2017 15:22	13.552	17.5	15.892
10/07/2017 15:22	13.630	17.5	16.141
10/07/2017 15:23	13.618	17.5	16.130
10/07/2017 15:23	13.636	17.5	16.130
10/07/2017 15:23	13.822	17.5	16.450
10/07/2017 15:23	13.822	17.5	16.466
10/07/2017 15:23	13.828	17.5	16.455
10/07/2017 15:23	13.828	17.5	16.460
10/07/2017 15:23	13.954	17.5	16.638
10/07/2017 15:23	14.038	17.5	16.755
10/07/2017 15:23	14.038	17.5	16.755
10/07/2017 15:23	14.026	17.5	16.745
10/07/2017 15:23	14.176	17.5	16.831
10/07/2017 15:23	14.236	17.5	17.020
10/07/2017 15:24	14.236	17.5	17.014
10/07/2017 15:24	14.236	17.5	16.974
10/07/2017 15:24	14.392	17.4	17.223
10/07/2017 15:24	14.440	17.5	17.259
10/07/2017 15:24	14.446	17.4	17.253
10/07/2017 15:24	14.434	17.4	17.248
10/07/2017 15:24	14.572	17.4	17.365
10/07/2017 15:24	14.644	17.4	17.426
10/07/2017 15:24	14.650	17.4	17.421
10/07/2017 15:24	14.662	17.4	17.416
10/07/2017 15:24	14.848	17.4	17.589
10/07/2017 15:24	14.836	17.4	17.589
10/07/2017 15:25	14.836	17.4	17.584
10/07/2017 15:25	14.836	17.4	17.533
10/07/2017 15:25	14.926	17.4	17.589
10/07/2017 15:25	15.028	17.4	17.681
10/07/2017 15:25	15.040	17.4	17.681
10/07/2017 15:25	15.082	17.4	17.676
10/07/2017 15:25	15.196	17.4	17.727
10/07/2017 15:25	15.250	17.4	17.767
10/07/2017 15:25	15.238	17.4	17.757
10/07/2017 15:25	15.244	17.4	17.767
10/07/2017 15:25	15.382	17.4	17.813
10/07/2017 15:25	15.442	17.4	17.818
10/07/2017 15:26	15.442	17.4	17.818
10/07/2017 15:26	15.460	17.4	17.818
10/07/2017 15:26	15.646	17.4	17.879
10/07/2017 15:26	15.640	17.4	17.885
10/07/2017 15:26	15.664	17.4	17.879
10/07/2017 15:26	15.682	17.4	17.874
10/07/2017 15:26	15.778	17.4	17.890
10/07/2017 15:26	15.856	17.4	17.920
10/07/2017 15:26	15.862	17.4	17.920
10/07/2017 15:26	15.856	17.4	17.910
10/07/2017 15:26	15.946	17.4	17.946
10/07/2017 15:26	16.042	17.3	17.971
10/07/2017 15:27	16.042	17.3	17.961
10/07/2017 15:27	16.036	17.4	17.971
10/07/2017 15:27	16.174	17.3	17.981
10/07/2017 15:27	16.258	17.3	18.002
10/07/2017 15:27	16.264	17.3	17.991
10/07/2017 15:27	16.276	17.3	17.997
10/07/2017 15:27	16.378	17.3	18.017
10/07/2017 15:27	16.456	17.3	18.022
10/07/2017 15:27	16.444	17.3	18.017
10/07/2017 15:27	16.450	17.3	18.022
10/07/2017 15:27	16.516	17.3	18.017
10/07/2017 15:27	16.648	17.3	18.032
10/07/2017 15:28	16.654	17.3	18.037
10/07/2017 15:28	16.660	17.3	18.032
10/07/2017 15:28	16.756	17.3	18.053
10/07/2017 15:28	16.840	17.3	18.063
10/07/2017 15:28	16.834	17.3	18.063
10/07/2017 15:28	16.858	17.3	18.053
10/07/2017 15:28	16.996	17.3	18.068
10/07/2017 15:28	17.050	17.3	18.078
10/07/2017 15:28	17.050	17.3	18.083
10/07/2017 15:28	17.062	17.3	18.078
10/07/2017 15:28	17.146	17.3	18.078
10/07/2017 15:28	17.242	17.3	18.088
10/07/2017 15:29	17.248	17.3	18.083
10/07/2017 15:29	17.254	17.3	18.083
10/07/2017 15:29	17.308	17.3	18.083
10/07/2017 15:29	17.446	17.3	18.109
10/07/2017 15:29	17.458	17.3	18.098
10/07/2017 15:29	17.458	17.3	18.098
10/07/2017 15:29	17.596	17.3	18.098
10/07/2017 15:29	17.644	17.3	18.114
10/07/2017 15:29	17.626	17.3	18.104
10/07/2017 15:29	17.668	17.3	18.109
10/07/2017 15:29	17.830	17.3	18.124
10/07/2017 15:29	17.866	17.3	18.129
10/07/2017 15:30	17.878	17.3	18.124
10/07/2017 15:30	17.878	17.3	18.124
10/07/2017 15:30	18.052	17.3	18.149
10/07/2017 15:30	18.070	17.3	18.160
10/07/2017 15:30	18.064	17.3	18.149
10/07/2017 15:30	18.070	17.3	18.149
10/07/2017 15:30	18.130	17.3	18.149
10/07/2017 15:30	18.250	17.3	18.180
10/07/2017 15:30	18.262	17.3	18.180
10/07/2017 15:30	18.274	17.3	18.185
10/07/2017 15:30	18.418	17.3	18.200
10/07/2017 15:30	18.466	17.3	18.226
10/07/2017 15:31	18.478	17.3	18.210
10/07/2017 15:31	18.472	17.3	18.216
10/07/2017 15:31	18.574	17.3	18.226
10/07/2017 15:31	18.670	17.3	18.246
10/07/2017 15:31	18.670	17.3	18.241

Borehole: ID18-GWBH02
Date: 10/05/2017
Logger ID: 1072388
Initial SWL (mbgs): 2.801
Total Depth (mbgs): 27.2
Screen Interval (mbgs): 21 to 28
***Note:** Well gauged with total depth of 27.2 mbGS. Some sedimentation at the base of the well.

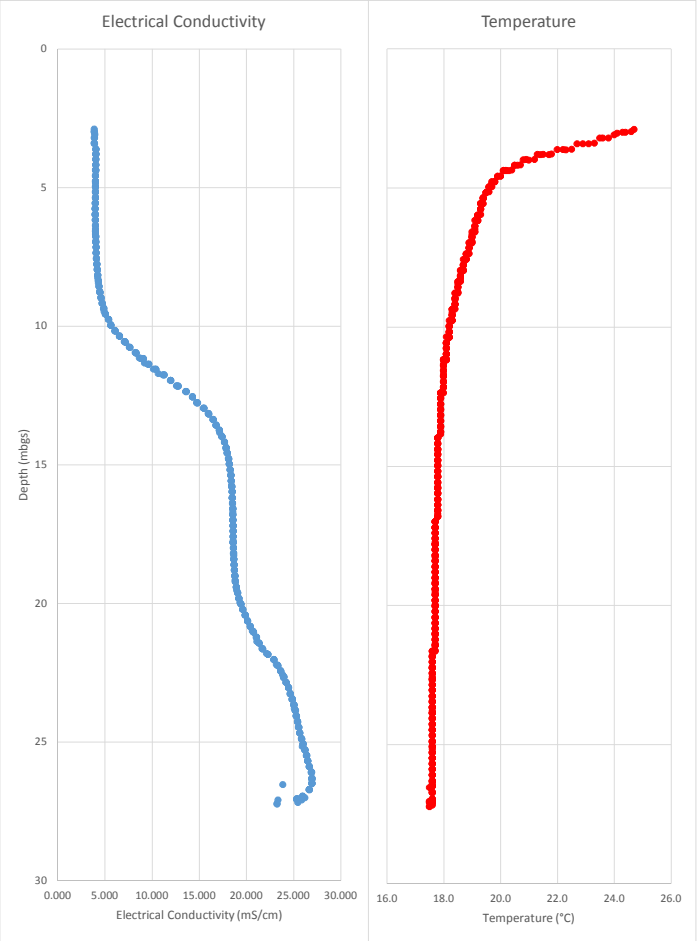
10/07/2017 15:31	18.670	17.3	18.241
10/07/2017 15:31	18.730	17.3	18.246
10/07/2017 15:31	18.868	17.3	18.302
10/07/2017 15:31	18.874	17.3	18.307
10/07/2017 15:31	18.868	17.3	18.307
10/07/2017 15:31	19.048	17.3	18.389
10/07/2017 15:31	19.060	17.3	18.394
10/07/2017 15:32	19.060	17.3	18.389
10/07/2017 15:32	19.054	17.3	18.384
10/07/2017 15:32	19.114	17.3	18.394
10/07/2017 15:32	19.270	17.3	18.475
10/07/2017 15:32	19.270	17.2	18.475
10/07/2017 15:32	19.270	17.3	18.470
10/07/2017 15:32	19.420	17.3	18.537
10/07/2017 15:32	19.468	17.2	18.588
10/07/2017 15:32	19.486	17.2	18.588
10/07/2017 15:32	19.486	17.2	18.588
10/07/2017 15:32	19.666	17.2	18.695
10/07/2017 15:32	19.678	17.2	18.710
10/07/2017 15:33	19.678	17.2	18.710
10/07/2017 15:33	19.678	17.2	18.710
10/07/2017 15:33	19.828	17.2	18.873
10/07/2017 15:33	19.870	17.2	18.909
10/07/2017 15:33	19.870	17.2	18.888
10/07/2017 15:33	19.870	17.2	18.914
10/07/2017 15:33	20.044	17.2	19.057
10/07/2017 15:33	20.086	17.2	19.118
10/07/2017 15:33	20.092	17.2	19.113
10/07/2017 15:33	20.104	17.2	19.098
10/07/2017 15:33	20.188	17.2	19.164
10/07/2017 15:33	20.278	17.2	19.297
10/07/2017 15:34	20.272	17.2	19.286
10/07/2017 15:34	20.272	17.2	19.291
10/07/2017 15:34	20.410	17.2	19.516
10/07/2017 15:34	20.488	17.2	19.603
10/07/2017 15:34	20.500	17.2	19.603
10/07/2017 15:34	20.536	17.2	19.598
10/07/2017 15:34	20.668	17.2	19.715
10/07/2017 15:34	20.668	17.2	19.741
10/07/2017 15:34	20.680	17.2	19.741
10/07/2017 15:34	20.674	17.2	19.746
10/07/2017 15:34	20.770	17.2	20.047
10/07/2017 15:34	20.890	17.2	20.574
10/07/2017 15:35	20.896	17.2	20.584
10/07/2017 15:35	20.896	17.2	20.568
10/07/2017 15:35	21.046	17.2	21.259
10/07/2017 15:35	21.094	17.2	21.392
10/07/2017 15:35	21.106	17.2	21.387
10/07/2017 15:35	21.130	17.2	21.387
10/07/2017 15:35	21.208	17.2	21.484
10/07/2017 15:35	21.286	17.2	21.515
10/07/2017 15:35	21.286	17.2	21.520
10/07/2017 15:35	21.316	17.2	21.536
10/07/2017 15:35	21.466	17.2	21.546
10/07/2017 15:35	21.484	17.2	21.561
10/07/2017 15:36	21.484	17.2	21.556
10/07/2017 15:36	21.490	17.2	21.561
10/07/2017 15:36	21.670	17.2	21.587
10/07/2017 15:36	21.688	17.2	21.577
10/07/2017 15:36	21.688	17.2	21.587
10/07/2017 15:36	21.694	17.2	21.587
10/07/2017 15:36	21.856	17.2	21.618
10/07/2017 15:36	21.904	17.2	21.659
10/07/2017 15:36	21.898	17.2	21.659
10/07/2017 15:36	21.910	17.2	21.669
10/07/2017 15:36	22.072	17.2	22.094
10/07/2017 15:36	22.102	17.2	22.156
10/07/2017 15:37	22.096	17.2	22.171
10/07/2017 15:37	22.090	17.2	22.197
10/07/2017 15:37	22.312	17.2	23.331
10/07/2017 15:37	22.294	17.2	23.341
10/07/2017 15:37	22.300	17.2	23.346
10/07/2017 15:37	22.300	17.2	23.336
10/07/2017 15:37	22.492	17.2	23.752
10/07/2017 15:37	22.510	17.2	23.716
10/07/2017 15:37	22.516	17.2	23.670
10/07/2017 15:37	22.546	17.2	23.654
10/07/2017 15:37	22.678	17.2	23.798
10/07/2017 15:37	22.690	17.2	23.809
10/07/2017 15:38	22.690	17.2	23.783
10/07/2017 15:38	22.702	17.2	23.762
10/07/2017 15:38	22.858	17.2	24.081
10/07/2017 15:38	22.912	17.2	24.179
10/07/2017 15:38	22.930	17.2	24.184
10/07/2017 15:38	22.942	17.2	24.189
10/07/2017 15:38	23.116	17.2	24.642
10/07/2017 15:38	23.110	17.2	24.616
10/07/2017 15:38	23.104	17.2	24.611
10/07/2017 15:38	23.116	17.2	24.585
10/07/2017 15:38	23.308	17.2	24.652
10/07/2017 15:38	23.302	17.2	24.657
10/07/2017 15:39	23.314	17.2	24.631
10/07/2017 15:39	23.302	17.2	24.616
10/07/2017 15:39	23.482	17.2	24.853
10/07/2017 15:39	23.500	17.2	24.863
10/07/2017 15:39	23.518	17.2	24.873
10/07/2017 15:39	23.506	17.2	24.884
10/07/2017 15:39	23.680	17.2	25.064
10/07/2017 15:39	23.722	17.2	25.090
10/07/2017 15:39	23.716	17.2	25.110
10/07/2017 15:39	23.722	17.2	25.115
10/07/2017 15:39	23.908	17.2	25.213
10/07/2017 15:39	23.920	17.2	25.218
10/07/2017 15:40	23.920	17.2	25.234
10/07/2017 15:40	24.028	17.2	25.254
10/07/2017 15:40	24.118	17.2	25.316
10/07/2017 15:40	24.118	17.2	25.311
10/07/2017 15:40	24.136	17.1	25.327
10/07/2017 15:40	24.148	17.2	25.321

Borehole: ID18-GWBH02
Date: 10/05/2017
Logger ID: 1072388
Initial SWL (mbgs): 2.801
Total Depth (mbgs): 27.2
Screen Interval (mbgs): 21 to 28
***Note:** Well gauged with total depth of 27.2 mbGS. Some sedimentation at the base of the well.

10/07/2017 15:40	24.316	17.2	25.460
10/07/2017 15:40	24.322	17.2	25.481
10/07/2017 15:40	24.328	17.2	25.481
10/07/2017 15:40	24.328	17.2	25.476
10/07/2017 15:40	24.412	17.2	25.569
10/07/2017 15:40	24.508	17.1	25.625
10/07/2017 15:41	24.484	17.1	25.636
10/07/2017 15:41	24.562	17.2	25.636
10/07/2017 15:41	24.718	17.2	25.641
10/07/2017 15:41	24.724	17.1	25.646
10/07/2017 15:41	24.742	17.1	25.641
10/07/2017 15:41	24.724	17.1	25.656
10/07/2017 15:41	24.922	17.1	25.806
10/07/2017 15:41	24.934	17.1	25.796
10/07/2017 15:41	24.952	17.1	25.811
10/07/2017 15:41	24.952	17.1	25.816
10/07/2017 15:41	25.132	17.1	25.883
10/07/2017 15:41	25.132	17.1	25.796
10/07/2017 15:42	25.120	17.1	25.744
10/07/2017 15:42	25.138	17.1	25.857
10/07/2017 15:42	25.288	17.1	26.033
10/07/2017 15:42	25.348	17.1	26.069
10/07/2017 15:42	25.336	17.1	26.069
10/07/2017 15:42	25.360	17.1	26.053
10/07/2017 15:42	25.546	17.1	26.151
10/07/2017 15:42	25.546	17.1	26.177
10/07/2017 15:42	25.552	17.1	26.177
10/07/2017 15:42	25.588	17.1	26.182
10/07/2017 15:42	25.744	17.1	26.213
10/07/2017 15:42	25.738	17.1	26.213
10/07/2017 15:43	25.732	17.1	26.208
10/07/2017 15:43	25.738	17.1	26.213
10/07/2017 15:43	25.930	17.1	26.239
10/07/2017 15:43	25.948	17.1	26.249
10/07/2017 15:43	25.948	17.1	26.255
10/07/2017 15:43	25.942	17.1	26.255
10/07/2017 15:43	26.152	17.1	26.476
10/07/2017 15:43	26.158	17.1	26.466
10/07/2017 15:43	26.158	17.1	26.466
10/07/2017 15:43	26.146	17.1	26.466
10/07/2017 15:43	26.236	17.1	26.420
10/07/2017 15:43	26.350	17.1	26.549
10/07/2017 15:44	26.356	17.1	26.559
10/07/2017 15:44	26.362	17.1	26.549
10/07/2017 15:44	26.554	17.1	26.611
10/07/2017 15:44	26.560	17.1	26.605
10/07/2017 15:44	26.560	17.1	26.611
10/07/2017 15:44	26.554	17.1	26.605
10/07/2017 15:44	26.728	17.1	26.420
10/07/2017 15:44	26.770	17.1	26.332
10/07/2017 15:44	26.758	17.1	26.296
10/07/2017 15:44	26.776	17.1	26.301
10/07/2017 15:44	26.986	17.1	25.919
10/07/2017 15:44	27.046	17.1	25.837
10/07/2017 15:45	27.046	17.1	25.821
10/07/2017 15:45	27.028	17.1	25.821
10/07/2017 15:45	27.160	17.1	25.218
10/07/2017 15:45	27.184	17.1	25.131
10/07/2017 15:45	27.154	17.1	24.765

Borehole: ID18-GWBH02
Date: 10/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 2.865
Total Depth (mbgs): 27.24
Screen Interval (mbgs): 21 to 28
***Note:** Well gauged with total depth of 27.24 mbGS. Some sedimentation at the base of the well.

DateTime	Logger Depth (mbGS)	Water Temperature (°C)	Electrical Conductivity (mS/cm)
10/05/2017 11:30	2.900	24.7	3.889
10/05/2017 11:30	2.978	24.6	3.879
10/05/2017 11:30	3.002	24.4	3.898
10/05/2017 11:30	3.008	24.3	3.926
10/05/2017 11:30	3.032	24.1	3.911
10/05/2017 11:30	3.092	24.0	3.939
10/05/2017 11:30	3.206	23.8	3.899
10/05/2017 11:30	3.212	23.6	3.915
10/05/2017 11:30	3.212	23.5	3.925
10/05/2017 11:30	3.398	23.3	3.902
10/05/2017 11:30	3.416	23.1	3.894
10/05/2017 11:31	3.416	22.7	3.920
10/05/2017 11:30	3.422	22.9	3.909
10/05/2017 11:31	3.608	22.5	4.057
10/05/2017 11:31	3.620	22.0	4.078
10/05/2017 11:31	3.626	22.2	4.071
10/05/2017 11:31	3.632	22.3	4.062
10/05/2017 11:31	3.782	21.8	4.057
10/05/2017 11:31	3.800	21.5	4.068
10/05/2017 11:31	3.800	21.3	4.076
10/05/2017 11:31	3.812	21.7	4.062
10/05/2017 11:31	3.812	21.4	4.072
10/05/2017 11:32	3.980	20.9	4.061
10/05/2017 11:31	3.986	21.2	4.050
10/05/2017 11:32	3.992	20.8	4.065
10/05/2017 11:31	3.998	21.0	4.060
10/05/2017 11:32	4.178	20.7	4.040
10/05/2017 11:32	4.184	20.5	4.050
10/05/2017 11:32	4.190	20.6	4.045
10/05/2017 11:32	4.190	20.5	4.047
10/05/2017 11:32	4.364	20.4	4.039
10/05/2017 11:32	4.376	20.2	4.040
10/05/2017 11:32	4.376	20.1	4.044
10/05/2017 11:32	4.382	20.2	4.042
10/05/2017 11:32	4.388	20.3	4.039
10/05/2017 11:32	4.388	20.1	4.044
10/05/2017 11:33	4.574	20.0	4.030
10/05/2017 11:33	4.574	20.0	4.032
10/05/2017 11:33	4.580	19.9	4.034
10/05/2017 11:33	4.586	19.9	4.034
10/05/2017 11:33	4.772	19.8	4.020
10/05/2017 11:33	4.778	19.8	4.025
10/05/2017 11:33	4.778	19.7	4.026
10/05/2017 11:33	4.784	19.8	4.024
10/05/2017 11:33	4.832	19.7	4.025
10/05/2017 11:33	4.958	19.7	4.015
10/05/2017 11:33	4.964	19.6	4.015
10/05/2017 11:34	4.970	19.6	4.017
10/05/2017 11:33	4.982	19.6	4.016
10/05/2017 11:34	5.138	19.6	4.010
10/05/2017 11:34	5.162	19.5	4.012
10/05/2017 11:34	5.168	19.5	4.010
10/05/2017 11:34	5.168	19.5	4.012
10/05/2017 11:34	5.174	19.5	4.010
10/05/2017 11:34	5.354	19.4	4.006
10/05/2017 11:34	5.366	19.4	4.007
10/05/2017 11:34	5.366	19.4	4.007
10/05/2017 11:34	5.384	19.4	4.009
10/05/2017 11:34	5.384	19.4	4.007
10/05/2017 11:35	5.558	19.3	4.005
10/05/2017 11:35	5.558	19.3	4.006
10/05/2017 11:34	5.570	19.4	4.004
10/05/2017 11:35	5.570	19.3	4.006
10/05/2017 11:35	5.762	19.3	4.002
10/05/2017 11:35	5.768	19.3	4.000
10/05/2017 11:35	5.768	19.3	4.001
10/05/2017 11:35	5.768	19.3	4.004
10/05/2017 11:35	5.960	19.3	4.002
10/05/2017 11:35	5.984	19.2	4.005
10/05/2017 11:35	5.984	19.2	4.005
10/05/2017 11:35	5.984	19.2	4.006
10/05/2017 11:35	5.984	19.2	4.006
10/05/2017 11:36	5.990	19.2	4.005
10/05/2017 11:36	6.170	19.2	4.007
10/05/2017 11:36	6.170	19.1	4.007
10/05/2017 11:36	6.176	19.2	4.005
10/05/2017 11:36	6.176	19.2	4.006
10/05/2017 11:36	6.368	19.1	4.015
10/05/2017 11:36	6.368	19.1	4.016
10/05/2017 11:36	6.374	19.1	4.014
10/05/2017 11:36	6.494	19.1	4.019
10/05/2017 11:36	6.578	19.1	4.031
10/05/2017 11:36	6.584	19.1	4.030
10/05/2017 11:36	6.584	19.0	4.032
10/05/2017 11:37	6.686	19.0	4.034
10/05/2017 11:37	6.764	19.0	4.045
10/05/2017 11:37	6.770	19.0	4.046
10/05/2017 11:37	6.776	19.0	4.046
10/05/2017 11:37	6.920	19.0	4.053
10/05/2017 11:37	6.968	19.0	4.060
10/05/2017 11:37	6.968	19.0	4.061
10/05/2017 11:37	6.968	18.9	4.063
10/05/2017 11:37	6.968	18.9	4.062
10/05/2017 11:37	7.154	18.9	4.075
10/05/2017 11:37	7.160	18.9	4.075
10/05/2017 11:37	7.160	18.9	4.076
10/05/2017 11:38	7.160	18.9	4.077
10/05/2017 11:38	7.358	18.9	4.102
10/05/2017 11:38	7.370	18.8	4.106
10/05/2017 11:38	7.370	18.8	4.106
10/05/2017 11:38	7.370	18.8	4.106
10/05/2017 11:38	7.544	18.8	4.126
10/05/2017 11:38	7.574	18.8	4.133
10/05/2017 11:38	7.574	18.8	4.133
10/05/2017 11:38	7.574	18.7	4.133
10/05/2017 11:38	7.760	18.7	4.163



Borehole: ID18-GWBH02
Date: 10/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 2.865
Total Depth (mbgs): 27.24
Screen Interval (mbgs): 21 to 28
***Note:** Well gauged with total depth of 27.24 mbGS. Some sedimentation at the base of the well.

10/05/2017 11:38	7.766	18.7	4.173
10/05/2017 11:39	7.766	18.7	4.176
10/05/2017 11:38	7.784	18.7	4.172
10/05/2017 11:39	7.952	18.7	4.198
10/05/2017 11:39	7.964	18.6	4.213
10/05/2017 11:39	7.970	18.6	4.212
10/05/2017 11:39	7.976	18.7	4.211
10/05/2017 11:39	7.976	18.7	4.211
10/05/2017 11:39	8.156	18.6	4.252
10/05/2017 11:39	8.162	18.6	4.262
10/05/2017 11:39	8.162	18.6	4.262
10/05/2017 11:39	8.174	18.6	4.262
10/05/2017 11:39	8.264	18.6	4.274
10/05/2017 11:40	8.360	18.5	4.325
10/05/2017 11:39	8.366	18.6	4.321
10/05/2017 11:40	8.372	18.5	4.324
10/05/2017 11:40	8.444	18.5	4.339
10/05/2017 11:40	8.564	18.5	4.389
10/05/2017 11:40	8.570	18.5	4.390
10/05/2017 11:40	8.576	18.5	4.393
10/05/2017 11:40	8.738	18.5	4.462
10/05/2017 11:40	8.780	18.5	4.495
10/05/2017 11:40	8.780	18.5	4.496
10/05/2017 11:40	8.780	18.4	4.496
10/05/2017 11:40	8.792	18.4	4.495
10/05/2017 11:41	8.966	18.4	4.592
10/05/2017 11:40	8.972	18.4	4.589
10/05/2017 11:41	8.972	18.4	4.590
10/05/2017 11:41	9.020	18.4	4.623
10/05/2017 11:41	9.176	18.4	4.752
10/05/2017 11:41	9.176	18.4	4.747
10/05/2017 11:41	9.182	18.4	4.743
10/05/2017 11:41	9.188	18.4	4.737
10/05/2017 11:41	9.356	18.4	4.896
10/05/2017 11:41	9.368	18.3	4.887
10/05/2017 11:41	9.368	18.3	4.888
10/05/2017 11:41	9.368	18.3	4.888
10/05/2017 11:41	9.482	18.3	4.954
10/05/2017 11:42	9.560	18.3	5.090
10/05/2017 11:42	9.566	18.3	5.066
10/05/2017 11:42	9.566	18.3	5.067
10/05/2017 11:42	9.578	18.3	5.069
10/05/2017 11:42	9.758	18.3	5.387
10/05/2017 11:42	9.764	18.3	5.402
10/05/2017 11:42	9.764	18.3	5.402
10/05/2017 11:42	9.764	18.3	5.401
10/05/2017 11:42	9.770	18.2	5.401
10/05/2017 11:42	9.956	18.2	5.642
10/05/2017 11:42	9.974	18.2	5.659
10/05/2017 11:43	9.974	18.2	5.645
10/05/2017 11:43	9.974	18.2	5.643
10/05/2017 11:42	9.980	18.2	5.652
10/05/2017 11:43	10.160	18.2	6.102
10/05/2017 11:43	10.178	18.2	6.084
10/05/2017 11:43	10.178	18.2	6.093
10/05/2017 11:43	10.178	18.2	6.110
10/05/2017 11:43	10.184	18.2	6.077
10/05/2017 11:43	10.352	18.1	6.577
10/05/2017 11:43	10.364	18.2	6.581
10/05/2017 11:43	10.370	18.2	6.568
10/05/2017 11:43	10.370	18.2	6.568
10/05/2017 11:43	10.376	18.2	6.564
10/05/2017 11:44	10.562	18.1	7.083
10/05/2017 11:44	10.568	18.1	7.147
10/05/2017 11:44	10.574	18.1	7.141
10/05/2017 11:44	10.574	18.1	7.143
10/05/2017 11:44	10.574	18.1	7.159
10/05/2017 11:44	10.592	18.1	7.201
10/05/2017 11:44	10.760	18.1	7.636
10/05/2017 11:44	10.766	18.1	7.623
10/05/2017 11:44	10.772	18.1	7.658
10/05/2017 11:44	10.772	18.1	7.687
10/05/2017 11:44	10.958	18.1	8.240
10/05/2017 11:45	10.970	18.1	8.307
10/05/2017 11:45	10.970	18.1	8.347
10/05/2017 11:44	10.976	18.1	8.301
10/05/2017 11:45	10.976	18.1	8.321
10/05/2017 11:45	11.150	18.1	8.662
10/05/2017 11:45	11.168	18.1	8.788
10/05/2017 11:45	11.174	18.0	8.928
10/05/2017 11:45	11.174	18.0	9.038
10/05/2017 11:45	11.174	18.0	9.086
10/05/2017 11:45	11.180	18.1	8.819
10/05/2017 11:45	11.180	18.1	8.865
10/05/2017 11:45	11.180	18.0	9.130
10/05/2017 11:45	11.186	18.0	8.990
10/05/2017 11:46	11.336	18.0	9.203
10/05/2017 11:46	11.372	18.0	9.686
10/05/2017 11:46	11.378	18.0	9.614
10/05/2017 11:46	11.384	18.0	9.600
10/05/2017 11:46	11.384	18.0	9.627
10/05/2017 11:46	11.558	18.0	10.163
10/05/2017 11:46	11.558	18.0	10.403
10/05/2017 11:46	11.558	18.0	10.389
10/05/2017 11:46	11.570	18.0	10.427
10/05/2017 11:46	11.714	18.0	10.679
10/05/2017 11:47	11.762	18.0	11.269
10/05/2017 11:46	11.768	18.0	11.198
10/05/2017 11:46	11.768	18.0	11.220
10/05/2017 11:47	11.768	18.0	11.324
10/05/2017 11:47	11.960	18.0	12.003
10/05/2017 11:47	11.960	18.0	11.990
10/05/2017 11:47	11.960	18.0	11.957
10/05/2017 11:47	11.966	18.0	11.999
10/05/2017 11:47	12.152	18.0	12.619
10/05/2017 11:47	12.164	18.0	12.681
10/05/2017 11:47	12.164	18.0	12.772
10/05/2017 11:47	12.164	18.0	12.820
10/05/2017 11:47	12.170	18.0	12.724

Borehole: ID18-GWBH02
Date: 10/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 2.865
Total Depth (mbgs): 27.24
Screen Interval (mbgs): 21 to 28
***Note:** Well gauged with total depth of 27.24 mbGS. Some sedimentation at the base of the well.

10/05/2017 11:47	12.362	18.0	13.577
10/05/2017 11:48	12.362	17.9	13.642
10/05/2017 11:48	12.362	17.9	13.647
10/05/2017 11:48	12.368	17.9	13.609
10/05/2017 11:48	12.374	17.9	13.620
10/05/2017 11:48	12.554	17.9	14.302
10/05/2017 11:48	12.560	17.9	14.323
10/05/2017 11:48	12.566	17.9	14.318
10/05/2017 11:48	12.566	17.9	14.318
10/05/2017 11:48	12.764	17.9	14.784
10/05/2017 11:48	12.770	17.9	14.742
10/05/2017 11:48	12.770	17.9	14.795
10/05/2017 11:49	12.770	17.9	14.833
10/05/2017 11:48	12.776	17.9	14.801
10/05/2017 11:49	12.962	17.9	15.455
10/05/2017 11:49	12.962	17.9	15.503
10/05/2017 11:49	12.962	17.9	15.519
10/05/2017 11:49	12.968	17.9	15.524
10/05/2017 11:49	13.154	17.9	15.980
10/05/2017 11:49	13.166	17.9	16.023
10/05/2017 11:49	13.172	17.9	16.018
10/05/2017 11:49	13.172	17.9	16.018
10/05/2017 11:49	13.178	17.9	16.023
10/05/2017 11:49	13.370	17.9	16.511
10/05/2017 11:49	13.370	17.9	16.489
10/05/2017 11:50	13.376	17.9	16.500
10/05/2017 11:50	13.382	17.9	16.489
10/05/2017 11:50	13.574	17.9	16.795
10/05/2017 11:50	13.574	17.9	16.805
10/05/2017 11:50	13.580	17.9	16.805
10/05/2017 11:50	13.580	17.9	16.811
10/05/2017 11:50	13.586	17.9	16.805
10/05/2017 11:50	13.754	17.9	17.143
10/05/2017 11:50	13.766	17.9	17.154
10/05/2017 11:50	13.766	17.9	17.159
10/05/2017 11:50	13.772	17.9	17.154
10/05/2017 11:50	13.856	17.9	17.180
10/05/2017 11:51	13.982	17.8	17.438
10/05/2017 11:51	13.988	17.8	17.422
10/05/2017 11:51	13.988	17.8	17.432
10/05/2017 11:51	13.988	17.8	17.432
10/05/2017 11:51	13.994	17.8	17.427
10/05/2017 11:51	14.186	17.8	17.689
10/05/2017 11:51	14.186	17.8	17.684
10/05/2017 11:51	14.192	17.8	17.684
10/05/2017 11:51	14.192	17.8	17.684
10/05/2017 11:51	14.390	17.8	17.871
10/05/2017 11:51	14.390	17.8	17.877
10/05/2017 11:51	14.390	17.8	17.877
10/05/2017 11:52	14.396	17.8	17.871
10/05/2017 11:52	14.426	17.8	17.882
10/05/2017 11:52	14.576	17.8	17.995
10/05/2017 11:52	14.576	17.8	17.973
10/05/2017 11:52	14.576	17.8	18.000
10/05/2017 11:52	14.582	17.8	17.989
10/05/2017 11:52	14.780	17.8	18.096
10/05/2017 11:52	14.780	17.8	18.134
10/05/2017 11:52	14.792	17.8	18.144
10/05/2017 11:52	14.798	17.8	18.150
10/05/2017 11:52	14.798	17.8	18.128
10/05/2017 11:52	14.978	17.8	18.219
10/05/2017 11:53	14.978	17.8	18.209
10/05/2017 11:53	14.978	17.8	18.214
10/05/2017 11:53	14.984	17.8	18.209
10/05/2017 11:53	15.176	17.8	18.294
10/05/2017 11:53	15.182	17.8	18.300
10/05/2017 11:53	15.188	17.8	18.300
10/05/2017 11:53	15.188	17.8	18.300
10/05/2017 11:53	15.374	17.8	18.369
10/05/2017 11:53	15.380	17.8	18.375
10/05/2017 11:53	15.380	17.8	18.369
10/05/2017 11:54	15.380	17.8	18.369
10/05/2017 11:53	15.386	17.8	18.380
10/05/2017 11:53	15.386	17.8	18.380
10/05/2017 11:54	15.584	17.8	18.417
10/05/2017 11:54	15.584	17.8	18.417
10/05/2017 11:54	15.584	17.8	18.423
10/05/2017 11:54	15.590	17.8	18.417
10/05/2017 11:54	15.746	17.8	18.444
10/05/2017 11:54	15.788	17.8	18.466
10/05/2017 11:54	15.788	17.8	18.466
10/05/2017 11:54	15.794	17.8	18.460
10/05/2017 11:54	15.794	17.8	18.466
10/05/2017 11:54	15.962	17.8	18.503
10/05/2017 11:54	15.974	17.8	18.508
10/05/2017 11:55	15.974	17.8	18.503
10/05/2017 11:55	15.974	17.8	18.503
10/05/2017 11:55	15.980	17.8	18.503
10/05/2017 11:55	16.196	17.8	18.530
10/05/2017 11:55	16.196	17.8	18.535
10/05/2017 11:55	16.196	17.8	18.530
10/05/2017 11:55	16.196	17.8	18.530
10/05/2017 11:55	16.202	17.8	18.530
10/05/2017 11:55	16.388	17.8	18.551
10/05/2017 11:55	16.388	17.8	18.551
10/05/2017 11:55	16.394	17.8	18.551
10/05/2017 11:55	16.394	17.8	18.551
10/05/2017 11:56	16.562	17.8	18.567
10/05/2017 11:56	16.592	17.8	18.573
10/05/2017 11:56	16.592	17.8	18.578
10/05/2017 11:56	16.598	17.8	18.573
10/05/2017 11:56	16.598	17.8	18.573
10/05/2017 11:56	16.718	17.8	18.573
10/05/2017 11:56	16.802	17.8	18.583
10/05/2017 11:56	16.802	17.8	18.583
10/05/2017 11:56	16.808	17.8	18.589
10/05/2017 11:56	16.808	17.8	18.583
10/05/2017 11:56	16.994	17.7	18.594
10/05/2017 11:57	16.994	17.7	18.599

Borehole: ID18-GWBH02
Date: 10/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 2.865
Total Depth (mbgs): 27.24
Screen Interval (mbgs): 21 to 28
***Note:** Well gauged with total depth of 27.24 mbGS. Some sedimentation at the base of the well.

10/05/2017 11:57	16.994	17.7	18.605
10/05/2017 11:56	17.000	17.7	18.599
10/05/2017 11:57	17.000	17.7	18.599
10/05/2017 11:57	17.000	17.7	18.599
10/05/2017 11:57	17.198	17.7	18.610
10/05/2017 11:57	17.198	17.7	18.610
10/05/2017 11:57	17.204	17.7	18.610
10/05/2017 11:57	17.204	17.7	18.610
10/05/2017 11:57	17.204	17.7	18.615
10/05/2017 11:57	17.204	17.7	18.610
10/05/2017 11:57	17.210	17.7	18.610
10/05/2017 11:58	17.390	17.7	18.621
10/05/2017 11:57	17.402	17.7	18.621
10/05/2017 11:58	17.402	17.7	18.621
10/05/2017 11:58	17.402	17.7	18.621
10/05/2017 11:58	17.402	17.7	18.615
10/05/2017 11:58	17.594	17.7	18.632
10/05/2017 11:58	17.600	17.7	18.626
10/05/2017 11:58	17.600	17.7	18.626
10/05/2017 11:58	17.600	17.7	18.621
10/05/2017 11:58	17.744	17.7	18.626
10/05/2017 11:58	17.798	17.7	18.626
10/05/2017 11:59	17.804	17.7	18.632
10/05/2017 11:59	17.804	17.7	18.632
10/05/2017 11:58	17.810	17.7	18.632
10/05/2017 11:59	17.810	17.7	18.632
10/05/2017 11:58	17.816	17.7	18.632
10/05/2017 11:59	17.990	17.7	18.648
10/05/2017 11:59	18.002	17.7	18.642
10/05/2017 11:59	18.008	17.7	18.642
10/05/2017 11:59	18.008	17.7	18.642
10/05/2017 11:59	18.014	17.7	18.642
10/05/2017 11:59	18.194	17.7	18.664
10/05/2017 11:59	18.200	17.7	18.669
10/05/2017 11:59	18.206	17.7	18.664
10/05/2017 11:59	18.212	17.7	18.653
10/05/2017 12:00	18.272	17.7	18.669
10/05/2017 12:00	18.404	17.7	18.680
10/05/2017 12:00	18.404	17.7	18.690
10/05/2017 12:00	18.410	17.7	18.685
10/05/2017 12:00	18.410	17.7	18.680
10/05/2017 12:00	18.410	17.7	18.685
10/05/2017 12:00	18.608	17.7	18.712
10/05/2017 12:00	18.614	17.7	18.723
10/05/2017 12:00	18.614	17.7	18.717
10/05/2017 12:00	18.614	17.7	18.723
10/05/2017 12:00	18.620	17.7	18.717
10/05/2017 12:00	18.794	17.7	18.744
10/05/2017 12:01	18.806	17.7	18.749
10/05/2017 12:01	18.812	17.7	18.749
10/05/2017 12:01	18.812	17.7	18.749
10/05/2017 12:01	18.812	17.7	18.749
10/05/2017 12:01	19.004	17.7	18.797
10/05/2017 12:01	19.010	17.7	18.808
10/05/2017 12:01	19.010	17.7	18.808
10/05/2017 12:01	19.016	17.7	18.803
10/05/2017 12:01	19.016	17.7	18.803
10/05/2017 12:01	19.166	17.7	18.835
10/05/2017 12:01	19.208	17.7	18.856
10/05/2017 12:01	19.220	17.7	18.856
10/05/2017 12:02	19.220	17.7	18.856
10/05/2017 12:02	19.220	17.7	18.856
10/05/2017 12:02	19.412	17.7	18.953
10/05/2017 12:02	19.418	17.7	18.963
10/05/2017 12:02	19.418	17.7	18.963
10/05/2017 12:02	19.424	17.7	18.969
10/05/2017 12:02	19.430	17.7	18.969
10/05/2017 12:02	19.538	17.7	18.990
10/05/2017 12:02	19.616	17.7	19.103
10/05/2017 12:02	19.622	17.7	19.108
10/05/2017 12:02	19.622	17.7	19.103
10/05/2017 12:02	19.622	17.7	19.103
10/05/2017 12:03	19.820	17.7	19.193
10/05/2017 12:03	19.820	17.7	19.236
10/05/2017 12:03	19.820	17.7	19.236
10/05/2017 12:03	19.826	17.7	19.236
10/05/2017 12:03	19.832	17.7	19.231
10/05/2017 12:03	19.976	17.7	19.333
10/05/2017 12:03	20.018	17.7	19.440
10/05/2017 12:03	20.024	17.7	19.440
10/05/2017 12:03	20.030	17.7	19.445
10/05/2017 12:03	20.042	17.7	19.472
10/05/2017 12:03	20.222	17.7	19.643
10/05/2017 12:04	20.222	17.7	19.638
10/05/2017 12:03	20.228	17.7	19.648
10/05/2017 12:04	20.228	17.7	19.638
10/05/2017 12:04	20.420	17.7	19.868
10/05/2017 12:04	20.426	17.7	19.910
10/05/2017 12:04	20.438	17.7	19.900
10/05/2017 12:04	20.438	17.7	19.894
10/05/2017 12:04	20.438	17.7	19.900
10/05/2017 12:04	20.630	17.7	20.140
10/05/2017 12:04	20.642	17.7	20.140
10/05/2017 12:04	20.642	17.7	20.151
10/05/2017 12:04	20.648	17.7	20.156
10/05/2017 12:04	20.648	17.7	20.146
10/05/2017 12:05	20.822	17.7	20.418
10/05/2017 12:05	20.834	17.7	20.456
10/05/2017 12:05	20.840	17.7	20.450
10/05/2017 12:05	20.846	17.7	20.456
10/05/2017 12:05	20.846	17.7	20.456
10/05/2017 12:05	21.002	17.7	20.659
10/05/2017 12:05	21.026	17.7	20.755
10/05/2017 12:05	21.026	17.7	20.755
10/05/2017 12:05	21.032	17.7	20.761
10/05/2017 12:05	21.032	17.7	20.755
10/05/2017 12:05	21.062	17.7	20.787
10/05/2017 12:06	21.224	17.7	21.081
10/05/2017 12:05	21.236	17.7	21.081

Borehole: ID18-GWBH02
Date: 10/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 2.865
Total Depth (mbgs): 27.24
Screen Interval (mbgs): 21 to 28
***Note:** Well gauged with total depth of 27.24 mbGS. Some sedimentation at the base of the well.

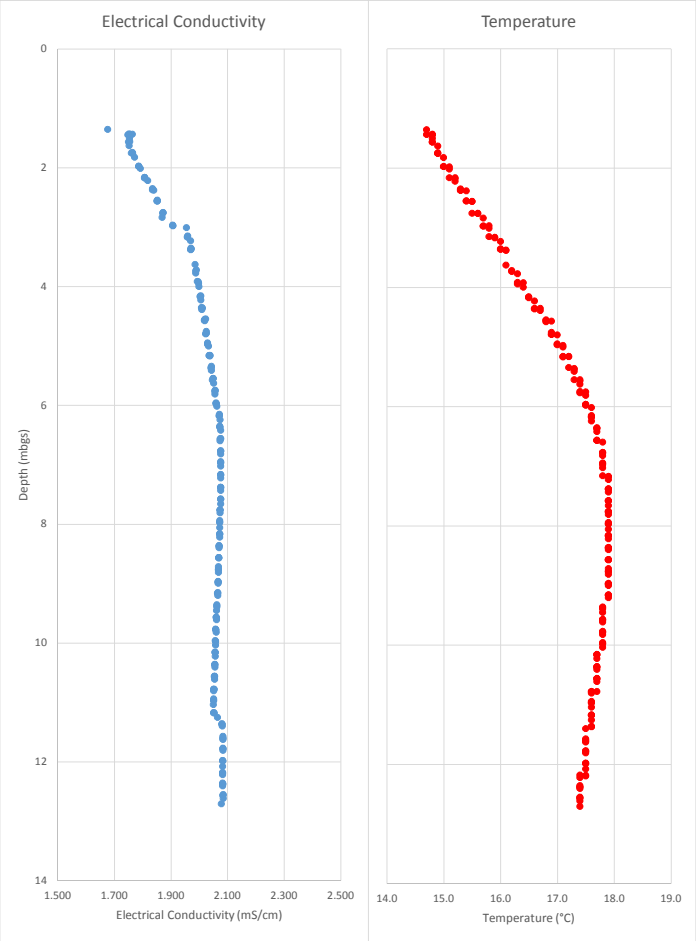
10/05/2017 12:06	21.236	17.7	21.081
10/05/2017 12:06	21.236	17.7	21.071
10/05/2017 12:06	21.386	17.7	21.124
10/05/2017 12:06	21.434	17.7	21.354
10/05/2017 12:06	21.440	17.7	21.359
10/05/2017 12:06	21.440	17.7	21.354
10/05/2017 12:06	21.440	17.7	21.354
10/05/2017 12:06	21.632	17.7	21.685
10/05/2017 12:06	21.644	17.6	21.739
10/05/2017 12:07	21.644	17.6	21.733
10/05/2017 12:06	21.650	17.7	21.744
10/05/2017 12:06	21.650	17.6	21.739
10/05/2017 12:07	21.806	17.6	22.161
10/05/2017 12:07	21.842	17.6	22.326
10/05/2017 12:07	21.842	17.6	22.273
10/05/2017 12:07	21.842	17.6	22.283
10/05/2017 12:07	21.842	17.6	22.300
10/05/2017 12:07	22.034	17.6	22.924
10/05/2017 12:07	22.034	17.6	22.930
10/05/2017 12:07	22.040	17.6	22.956
10/05/2017 12:07	22.040	17.6	22.914
10/05/2017 12:07	22.208	17.6	23.207
10/05/2017 12:08	22.238	17.6	23.341
10/05/2017 12:07	22.244	17.6	23.335
10/05/2017 12:08	22.244	17.6	23.330
10/05/2017 12:08	22.250	17.6	23.325
10/05/2017 12:08	22.256	17.6	23.373
10/05/2017 12:08	22.430	17.6	23.656
10/05/2017 12:08	22.448	17.6	23.650
10/05/2017 12:08	22.448	17.6	23.661
10/05/2017 12:08	22.454	17.6	23.661
10/05/2017 12:08	22.574	17.6	23.832
10/05/2017 12:08	22.652	17.6	24.008
10/05/2017 12:09	22.652	17.6	23.965
10/05/2017 12:08	22.658	17.6	23.960
10/05/2017 12:08	22.664	17.6	23.965
10/05/2017 12:09	22.694	17.6	23.992
10/05/2017 12:09	22.856	17.6	24.259
10/05/2017 12:09	22.856	17.6	24.248
10/05/2017 12:09	22.856	17.6	24.232
10/05/2017 12:09	22.862	17.6	24.216
10/05/2017 12:09	23.042	17.6	24.483
10/05/2017 12:09	23.042	17.6	24.488
10/05/2017 12:09	23.048	17.6	24.483
10/05/2017 12:09	23.048	17.6	24.493
10/05/2017 12:09	23.048	17.6	24.477
10/05/2017 12:09	23.258	17.6	24.670
10/05/2017 12:10	23.264	17.6	24.686
10/05/2017 12:10	23.270	17.6	24.686
10/05/2017 12:10	23.270	17.6	24.680
10/05/2017 12:10	23.270	17.6	24.675
10/05/2017 12:10	23.444	17.6	24.883
10/05/2017 12:10	23.456	17.6	24.883
10/05/2017 12:10	23.462	17.6	24.872
10/05/2017 12:10	23.468	17.6	24.872
10/05/2017 12:10	23.474	17.6	24.883
10/05/2017 12:11	23.660	17.6	25.048
10/05/2017 12:10	23.666	17.6	25.054
10/05/2017 12:11	23.666	17.6	25.059
10/05/2017 12:10	23.672	17.6	25.064
10/05/2017 12:10	23.672	17.6	25.054
10/05/2017 12:11	23.672	17.6	25.054
10/05/2017 12:11	23.798	17.6	25.086
10/05/2017 12:11	23.864	17.6	25.224
10/05/2017 12:11	23.864	17.6	25.219
10/05/2017 12:11	23.870	17.6	25.214
10/05/2017 12:11	23.870	17.6	25.219
10/05/2017 12:11	23.876	17.6	25.214
10/05/2017 12:11	24.050	17.6	25.320
10/05/2017 12:12	24.056	17.6	25.315
10/05/2017 12:11	24.068	17.6	25.325
10/05/2017 12:11	24.074	17.6	25.320
10/05/2017 12:12	24.074	17.6	25.320
10/05/2017 12:12	24.260	17.6	25.437
10/05/2017 12:12	24.272	17.6	25.453
10/05/2017 12:12	24.272	17.6	25.448
10/05/2017 12:12	24.278	17.6	25.453
10/05/2017 12:12	24.284	17.6	25.464
10/05/2017 12:12	24.470	17.6	25.555
10/05/2017 12:12	24.476	17.6	25.576
10/05/2017 12:12	24.476	17.6	25.581
10/05/2017 12:13	24.476	17.6	25.560
10/05/2017 12:12	24.482	17.6	25.555
10/05/2017 12:12	24.482	17.6	25.560
10/05/2017 12:13	24.674	17.6	25.688
10/05/2017 12:13	24.674	17.6	25.683
10/05/2017 12:13	24.680	17.6	25.677
10/05/2017 12:13	24.680	17.6	25.667
10/05/2017 12:13	24.878	17.6	25.837
10/05/2017 12:13	24.884	17.6	25.880
10/05/2017 12:13	24.902	17.6	25.875
10/05/2017 12:13	24.902	17.6	25.880
10/05/2017 12:13	24.908	17.6	25.875
10/05/2017 12:13	25.076	17.6	26.035
10/05/2017 12:14	25.076	17.6	26.019
10/05/2017 12:13	25.082	17.6	26.024
10/05/2017 12:14	25.082	17.6	26.035
10/05/2017 12:14	25.166	17.6	25.944
10/05/2017 12:14	25.286	17.6	26.216
10/05/2017 12:14	25.286	17.6	26.216
10/05/2017 12:14	25.292	17.6	26.264
10/05/2017 12:14	25.292	17.6	26.226
10/05/2017 12:14	25.292	17.6	26.205
10/05/2017 12:14	25.490	17.6	26.408
10/05/2017 12:14	25.496	17.6	26.408
10/05/2017 12:14	25.496	17.6	26.392
10/05/2017 12:14	25.496	17.6	26.386
10/05/2017 12:15	25.496	17.6	26.386
10/05/2017 12:15	25.496	17.6	26.386

Borehole: ID18-GWBH02
Date: 10/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 2.865
Total Depth (mbgs): 27.24
Screen Interval (mbgs): 21 to 28
***Note:** Well gauged with total depth of 27.24 mbGS. Some sedimentation at the base of the well.

10/05/2017 12:15	25.688	17.6	26.520
10/05/2017 12:15	25.688	17.6	26.520
10/05/2017 12:15	25.694	17.6	26.541
10/05/2017 12:15	25.694	17.6	26.525
10/05/2017 12:15	25.694	17.6	26.520
10/05/2017 12:15	25.886	17.6	26.690
10/05/2017 12:15	25.898	17.6	26.706
10/05/2017 12:15	25.898	17.6	26.701
10/05/2017 12:15	25.898	17.6	26.711
10/05/2017 12:15	25.898	17.6	26.711
10/05/2017 12:16	26.090	17.6	26.898
10/05/2017 12:16	26.096	17.6	26.924
10/05/2017 12:16	26.096	17.6	26.924
10/05/2017 12:16	26.102	17.6	26.914
10/05/2017 12:16	26.102	17.6	26.924
10/05/2017 12:16	26.300	17.6	26.962
10/05/2017 12:16	26.318	17.6	26.962
10/05/2017 12:16	26.324	17.6	26.962
10/05/2017 12:16	26.324	17.6	26.962
10/05/2017 12:16	26.324	17.6	26.956
10/05/2017 12:16	26.384	17.6	26.951
10/05/2017 12:16	26.498	17.6	26.972
10/05/2017 12:17	26.498	17.6	26.972
10/05/2017 12:17	26.498	17.6	26.967
10/05/2017 12:17	26.498	17.6	26.962
10/05/2017 12:17	26.510	17.6	26.962
10/05/2017 12:18	26.546	17.5	23.875
10/05/2017 12:17	26.714	17.6	26.706
10/05/2017 12:17	26.720	17.6	26.701
10/05/2017 12:17	26.732	17.6	26.658
10/05/2017 12:17	26.732	17.6	26.679
10/05/2017 12:17	26.732	17.6	26.679
10/05/2017 12:18	26.954	17.6	25.987
10/05/2017 12:17	26.960	17.6	25.992
10/05/2017 12:18	26.972	17.6	25.981
10/05/2017 12:17	26.978	17.6	26.008
10/05/2017 12:17	27.020	17.6	26.216
10/05/2017 12:18	27.050	17.5	25.400
10/05/2017 12:18	27.056	17.5	25.411
10/05/2017 12:18	27.062	17.6	25.331
10/05/2017 12:18	27.074	17.6	25.416
10/05/2017 12:18	27.074	17.6	25.352
10/05/2017 12:18	27.092	17.6	25.896
10/05/2017 12:18	27.092	17.5	23.367
10/05/2017 12:18	27.098	17.6	25.421
10/05/2017 12:18	27.188	17.6	25.480
10/05/2017 12:19	27.230	17.5	23.261
10/05/2017 12:19	27.242	17.5	23.282

Borehole: ID18-GWBH05
Date: 10/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 1.229
Total Depth (mbgs): 12.7
Screen Interval (mbgs): 11 to 14
***Note:** Well gauged with total depth of 12.7 mbGS. Some sedimentation at the base of the well.

DateTime	Logger Depth (mbGS)	Water Temperature (°C)	Electrical Conductivity (mS/cm)
10/07/2017 14:13	1.356	14.7	1.677
10/07/2017 14:13	1.440	14.7	1.764
10/07/2017 14:13	1.446	14.8	1.758
10/07/2017 14:13	1.434	14.8	1.753
10/07/2017 14:13	1.446	14.8	1.748
10/07/2017 14:13	1.506	14.8	1.754
10/07/2017 14:13	1.560	14.8	1.755
10/07/2017 14:14	1.566	14.8	1.751
10/07/2017 14:14	1.632	14.9	1.753
10/07/2017 14:14	1.758	14.9	1.765
10/07/2017 14:14	1.746	14.9	1.764
10/07/2017 14:14	1.758	14.9	1.761
10/07/2017 14:14	1.824	15.0	1.772
10/07/2017 14:14	1.974	15.0	1.787
10/07/2017 14:14	1.974	15.0	1.787
10/07/2017 14:14	1.980	15.1	1.787
10/07/2017 14:14	2.016	15.1	1.792
10/07/2017 14:14	2.166	15.1	1.808
10/07/2017 14:14	2.166	15.2	1.807
10/07/2017 14:15	2.178	15.2	1.807
10/07/2017 14:15	2.220	15.2	1.819
10/07/2017 14:15	2.352	15.3	1.836
10/07/2017 14:15	2.370	15.3	1.837
10/07/2017 14:15	2.376	15.3	1.836
10/07/2017 14:15	2.382	15.4	1.840
10/07/2017 14:15	2.556	15.4	1.852
10/07/2017 14:15	2.550	15.4	1.852
10/07/2017 14:15	2.562	15.5	1.852
10/07/2017 14:15	2.562	15.5	1.851
10/07/2017 14:15	2.760	15.5	1.873
10/07/2017 14:15	2.760	15.6	1.873
10/07/2017 14:16	2.766	15.6	1.872
10/07/2017 14:16	2.838	15.7	1.869
10/07/2017 14:16	2.976	15.7	1.908
10/07/2017 14:16	2.976	15.7	1.907
10/07/2017 14:16	2.970	15.8	1.907
10/07/2017 14:16	3.012	15.8	1.955
10/07/2017 14:16	3.150	15.8	1.960
10/07/2017 14:16	3.162	15.9	1.959
10/07/2017 14:16	3.174	15.9	1.959
10/07/2017 14:16	3.234	16.0	1.970
10/07/2017 14:16	3.366	16.0	1.972
10/07/2017 14:16	3.354	16.0	1.971
10/07/2017 14:17	3.384	16.1	1.970
10/07/2017 14:17	3.378	16.1	1.971
10/07/2017 14:17	3.630	16.1	1.986
10/07/2017 14:17	3.720	16.2	1.991
10/07/2017 14:17	3.738	16.2	1.988
10/07/2017 14:17	3.774	16.3	1.988
10/07/2017 14:17	3.918	16.3	1.994
10/07/2017 14:17	3.948	16.3	1.998
10/07/2017 14:17	3.924	16.4	1.997
10/07/2017 14:17	4.002	16.4	1.999
10/07/2017 14:17	4.158	16.5	2.006
10/07/2017 14:17	4.164	16.5	2.004
10/07/2017 14:18	4.176	16.5	2.004
10/07/2017 14:18	4.230	16.6	2.006
10/07/2017 14:18	4.362	16.6	2.012
10/07/2017 14:18	4.356	16.6	2.010
10/07/2017 14:18	4.356	16.7	2.009
10/07/2017 14:18	4.392	16.7	2.010
10/07/2017 14:18	4.548	16.8	2.023
10/07/2017 14:18	4.560	16.8	2.020
10/07/2017 14:18	4.578	16.8	2.020
10/07/2017 14:18	4.566	16.9	2.019
10/07/2017 14:18	4.758	16.9	2.025
10/07/2017 14:18	4.788	16.9	2.025
10/07/2017 14:19	4.794	16.9	2.024
10/07/2017 14:19	4.800	17.0	2.023
10/07/2017 14:19	4.950	17.0	2.030
10/07/2017 14:19	4.968	17.0	2.030
10/07/2017 14:19	4.974	17.1	2.030
10/07/2017 14:19	5.004	17.1	2.033
10/07/2017 14:19	5.160	17.1	2.039
10/07/2017 14:19	5.172	17.1	2.038
10/07/2017 14:19	5.166	17.2	2.036
10/07/2017 14:19	5.160	17.2	2.036
10/07/2017 14:19	5.346	17.2	2.044
10/07/2017 14:19	5.364	17.3	2.042
10/07/2017 14:20	5.376	17.3	2.042
10/07/2017 14:20	5.412	17.3	2.044
10/07/2017 14:20	5.550	17.3	2.050
10/07/2017 14:20	5.550	17.4	2.049
10/07/2017 14:20	5.574	17.4	2.047
10/07/2017 14:20	5.628	17.4	2.052
10/07/2017 14:20	5.748	17.4	2.057
10/07/2017 14:20	5.772	17.4	2.056
10/07/2017 14:20	5.754	17.5	2.056
10/07/2017 14:20	5.814	17.5	2.056
10/07/2017 14:20	5.964	17.5	2.061
10/07/2017 14:20	5.982	17.5	2.061
10/07/2017 14:21	5.964	17.5	2.060
10/07/2017 14:21	6.018	17.6	2.063
10/07/2017 14:21	6.150	17.6	2.072
10/07/2017 14:21	6.174	17.6	2.072
10/07/2017 14:21	6.180	17.6	2.071
10/07/2017 14:21	6.246	17.6	2.074
10/07/2017 14:21	6.366	17.7	2.074
10/07/2017 14:21	6.354	17.7	2.073
10/07/2017 14:21	6.366	17.7	2.073
10/07/2017 14:21	6.420	17.7	2.076
10/07/2017 14:21	6.564	17.7	2.076
10/07/2017 14:21	6.564	17.7	2.076
10/07/2017 14:22	6.570	17.7	2.074
10/07/2017 14:22	6.600	17.8	2.074
10/07/2017 14:22	6.768	17.8	2.076



Borehole: ID18-GWBH05
Date: 10/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 1.229
Total Depth (mbgs): 12.7
Screen Interval (mbgs): 11 to 14
***Note:** Well gauged with total depth of 12.7 mbGS. Some sedimentation at the base of the well.

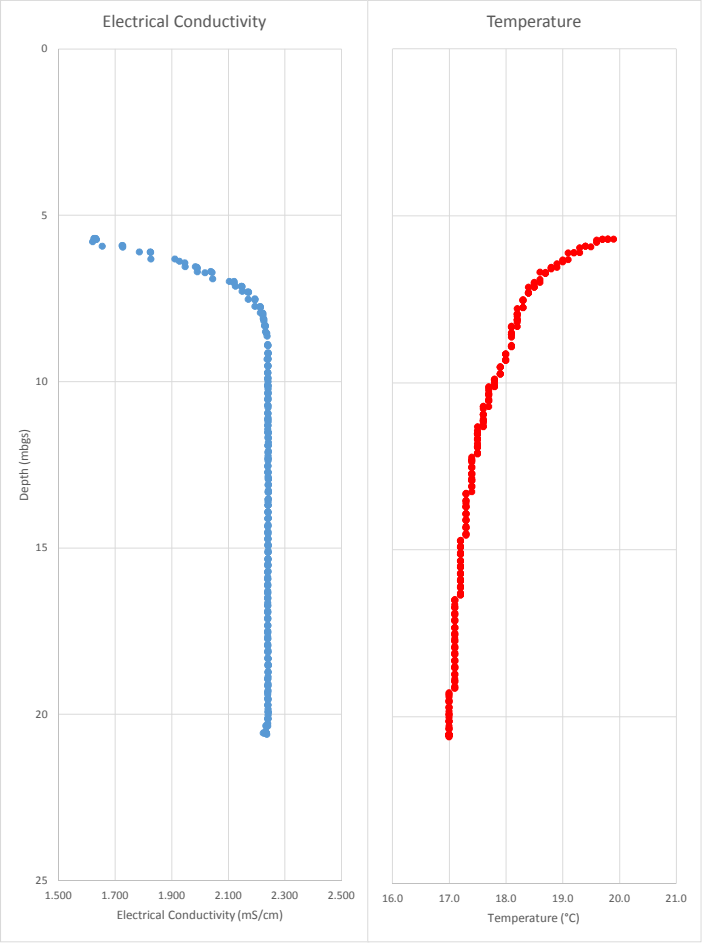
10/07/2017 14:22	6.774	17.8	2.077
10/07/2017 14:22	6.774	17.8	2.076
10/07/2017 14:22	6.822	17.8	2.077
10/07/2017 14:22	6.960	17.8	2.077
10/07/2017 14:22	6.972	17.8	2.077
10/07/2017 14:22	6.948	17.8	2.077
10/07/2017 14:22	7.026	17.8	2.077
10/07/2017 14:22	7.164	17.8	2.077
10/07/2017 14:22	7.170	17.9	2.077
10/07/2017 14:23	7.176	17.9	2.077
10/07/2017 14:23	7.224	17.9	2.077
10/07/2017 14:23	7.380	17.9	2.076
10/07/2017 14:23	7.386	17.9	2.076
10/07/2017 14:23	7.380	17.9	2.076
10/07/2017 14:23	7.434	17.9	2.076
10/07/2017 14:23	7.578	17.9	2.076
10/07/2017 14:23	7.578	17.9	2.076
10/07/2017 14:23	7.578	17.9	2.076
10/07/2017 14:23	7.662	17.9	2.076
10/07/2017 14:23	7.764	17.9	2.074
10/07/2017 14:23	7.764	17.9	2.074
10/07/2017 14:24	7.764	17.9	2.074
10/07/2017 14:24	7.812	17.9	2.074
10/07/2017 14:24	7.944	17.9	2.073
10/07/2017 14:24	7.974	17.9	2.073
10/07/2017 14:24	7.968	17.9	2.073
10/07/2017 14:24	8.058	17.9	2.073
10/07/2017 14:24	8.160	17.9	2.073
10/07/2017 14:24	8.172	17.9	2.073
10/07/2017 14:24	8.166	17.9	2.073
10/07/2017 14:24	8.220	17.9	2.073
10/07/2017 14:24	8.370	17.9	2.071
10/07/2017 14:24	8.364	17.9	2.071
10/07/2017 14:25	8.370	17.9	2.071
10/07/2017 14:25	8.400	17.9	2.071
10/07/2017 14:25	8.574	17.9	2.070
10/07/2017 14:25	8.568	17.9	2.070
10/07/2017 14:25	8.568	17.9	2.070
10/07/2017 14:25	8.568	17.9	2.070
10/07/2017 14:25	8.718	17.9	2.068
10/07/2017 14:25	8.766	17.9	2.068
10/07/2017 14:25	8.766	17.9	2.068
10/07/2017 14:25	8.814	17.9	2.068
10/07/2017 14:25	8.964	17.9	2.067
10/07/2017 14:25	8.976	17.9	2.067
10/07/2017 14:26	8.976	17.9	2.067
10/07/2017 14:26	9.000	17.9	2.067
10/07/2017 14:26	9.162	17.9	2.065
10/07/2017 14:26	9.156	17.9	2.066
10/07/2017 14:26	9.162	17.9	2.066
10/07/2017 14:26	9.204	17.9	2.066
10/07/2017 14:26	9.372	17.8	2.063
10/07/2017 14:26	9.360	17.8	2.063
10/07/2017 14:26	9.396	17.8	2.063
10/07/2017 14:26	9.456	17.8	2.062
10/07/2017 14:26	9.570	17.8	2.061
10/07/2017 14:26	9.570	17.8	2.061
10/07/2017 14:27	9.582	17.8	2.062
10/07/2017 14:27	9.612	17.8	2.062
10/07/2017 14:27	9.768	17.8	2.058
10/07/2017 14:27	9.780	17.8	2.060
10/07/2017 14:27	9.786	17.8	2.060
10/07/2017 14:27	9.822	17.8	2.061
10/07/2017 14:27	9.960	17.8	2.057
10/07/2017 14:27	9.978	17.8	2.058
10/07/2017 14:27	9.972	17.8	2.058
10/07/2017 14:27	10.038	17.8	2.058
10/07/2017 14:27	10.158	17.7	2.056
10/07/2017 14:27	10.164	17.7	2.057
10/07/2017 14:28	10.164	17.7	2.057
10/07/2017 14:28	10.224	17.7	2.057
10/07/2017 14:28	10.368	17.7	2.055
10/07/2017 14:28	10.374	17.7	2.056
10/07/2017 14:28	10.362	17.7	2.056
10/07/2017 14:28	10.410	17.7	2.056
10/07/2017 14:28	10.566	17.7	2.054
10/07/2017 14:28	10.560	17.7	2.055
10/07/2017 14:28	10.566	17.7	2.055
10/07/2017 14:28	10.614	17.7	2.055
10/07/2017 14:28	10.782	17.7	2.052
10/07/2017 14:28	10.782	17.6	2.052
10/07/2017 14:29	10.782	17.6	2.054
10/07/2017 14:29	10.806	17.6	2.052
10/07/2017 14:29	10.944	17.6	2.051
10/07/2017 14:29	10.968	17.6	2.051
10/07/2017 14:29	10.968	17.6	2.052
10/07/2017 14:29	11.040	17.6	2.050
10/07/2017 14:29	11.178	17.6	2.052
10/07/2017 14:29	11.172	17.6	2.052
10/07/2017 14:29	11.178	17.6	2.054
10/07/2017 14:29	11.256	17.6	2.065
10/07/2017 14:29	11.364	17.6	2.081
10/07/2017 14:29	11.370	17.6	2.081
10/07/2017 14:30	11.370	17.6	2.081
10/07/2017 14:30	11.400	17.5	2.082
10/07/2017 14:30	11.574	17.5	2.084
10/07/2017 14:30	11.610	17.5	2.084
10/07/2017 14:30	11.598	17.5	2.084
10/07/2017 14:30	11.628	17.5	2.084
10/07/2017 14:30	11.784	17.5	2.084
10/07/2017 14:30	11.772	17.5	2.084
10/07/2017 14:30	11.784	17.5	2.084
10/07/2017 14:30	11.808	17.5	2.084
10/07/2017 14:30	11.982	17.5	2.083
10/07/2017 14:30	11.982	17.5	2.083
10/07/2017 14:31	11.988	17.5	2.084
10/07/2017 14:31	12.078	17.5	2.083
10/07/2017 14:31	12.198	17.5	2.083
10/07/2017 14:31	12.186	17.5	2.083

Borehole: ID18-GWBH05
Date: 10/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 1.229
Total Depth (mbgs): 12.7
Screen Interval (mbgs): 11 to 14
***Note:** Well gauged with total depth of 12.7 mbGS. Some sedimentation at the base of the well.

10/07/2017 14:31	12.180	17.4	2.083
10/07/2017 14:31	12.222	17.4	2.083
10/07/2017 14:31	12.360	17.4	2.083
10/07/2017 14:31	12.384	17.4	2.083
10/07/2017 14:31	12.378	17.4	2.084
10/07/2017 14:31	12.408	17.4	2.083
10/07/2017 14:31	12.570	17.4	2.084
10/07/2017 14:31	12.564	17.4	2.084
10/07/2017 14:32	12.552	17.4	2.086
10/07/2017 14:32	12.618	17.4	2.086
10/07/2017 14:32	12.708	17.4	2.079

Borehole: ID43-GWBH02
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 4.566
Total Depth (mbgs): 20.560
Screen Interval (mbgs): 21 to 24
***Note:** Well gauged with total depth of 20.56 mbGS. Significant sedimentation at the base of the well.

DateTime	Logger Depth (mbGS)	Water Temperature (°C)	Electrical Conductivity (mS/cm)
21/01/2135 11:40	5.700	19.9	1.626
21/01/2135 11:40	5.706	19.8	1.628
21/01/2135 11:40	5.706	19.8	1.629
21/01/2135 11:40	5.700	19.8	1.632
21/01/2135 11:40	5.706	19.7	1.632
21/01/2135 11:40	5.712	19.7	1.633
21/01/2135 11:40	5.736	19.6	1.635
21/01/2135 11:41	5.796	19.6	1.622
21/01/2135 11:41	5.934	19.5	1.655
21/01/2135 11:41	5.916	19.4	1.728
21/01/2135 11:41	5.916	19.4	1.726
21/01/2135 11:41	5.964	19.3	1.728
21/01/2135 11:41	6.108	19.3	1.787
21/01/2135 11:41	6.108	19.2	1.825
21/01/2135 11:41	6.120	19.2	1.826
21/01/2135 11:41	6.114	19.1	1.826
21/01/2135 11:41	6.318	19.1	1.827
21/01/2135 11:41	6.324	19.0	1.912
21/01/2135 11:41	6.384	19.0	1.928
21/01/2135 11:42	6.438	18.9	1.948
21/01/2135 11:42	6.546	18.9	1.949
21/01/2135 11:42	6.552	18.8	1.985
21/01/2135 11:42	6.570	18.8	1.990
21/01/2135 11:42	6.594	18.8	1.991
21/01/2135 11:42	6.702	18.7	1.992
21/01/2135 11:42	6.732	18.7	2.019
21/01/2135 11:42	6.726	18.7	2.044
21/01/2135 11:42	6.696	18.6	2.039
21/01/2135 11:42	6.912	18.6	2.046
21/01/2135 11:42	6.996	18.6	2.105
21/01/2135 11:42	6.996	18.5	2.122
21/01/2135 11:43	7.044	18.5	2.122
21/01/2135 11:43	7.134	18.5	2.126
21/01/2135 11:43	7.146	18.5	2.148
21/01/2135 11:43	7.140	18.5	2.148
21/01/2135 11:43	7.146	18.4	2.150
21/01/2135 11:43	7.296	18.4	2.150
21/01/2135 11:43	7.314	18.4	2.169
21/01/2135 11:43	7.314	18.4	2.173
21/01/2135 11:43	7.320	18.4	2.173
21/01/2135 11:43	7.530	18.3	2.172
21/01/2135 11:43	7.524	18.3	2.195
21/01/2135 11:43	7.524	18.3	2.195
21/01/2135 11:44	7.548	18.3	2.195
21/01/2135 11:44	7.746	18.3	2.195
21/01/2135 11:44	7.752	18.3	2.213
21/01/2135 11:44	7.752	18.3	2.214
21/01/2135 11:44	7.782	18.2	2.214
21/01/2135 11:44	7.938	18.2	2.214
21/01/2135 11:44	7.950	18.2	2.222
21/01/2135 11:44	7.956	18.2	2.224
21/01/2135 11:44	8.010	18.2	2.224
21/01/2135 11:44	8.112	18.2	2.225
21/01/2135 11:44	8.130	18.2	2.226
21/01/2135 11:44	8.124	18.2	2.227
21/01/2135 11:45	8.190	18.2	2.227
21/01/2135 11:45	8.322	18.2	2.229
21/01/2135 11:45	8.328	18.1	2.230
21/01/2135 11:45	8.310	18.1	2.231
21/01/2135 11:45	8.340	18.1	2.232
21/01/2135 11:45	8.508	18.1	2.232
21/01/2135 11:45	8.550	18.1	2.236
21/01/2135 11:45	8.556	18.1	2.237
21/01/2135 11:45	8.634	18.1	2.238
21/01/2135 11:45	8.886	18.1	2.240
21/01/2135 11:45	8.928	18.1	2.240
21/01/2135 11:45	8.910	18.1	2.241
21/01/2135 11:46	8.922	18.1	2.242
21/01/2135 11:46	9.144	18.0	2.242
21/01/2135 11:46	9.144	18.0	2.240
21/01/2135 11:46	9.150	18.0	2.242
21/01/2135 11:46	9.150	18.0	2.243
21/01/2135 11:46	9.312	18.0	2.242
21/01/2135 11:46	9.336	18.0	2.238
21/01/2135 11:46	9.324	18.0	2.241
21/01/2135 11:46	9.330	18.0	2.242
21/01/2135 11:46	9.528	17.9	2.242
21/01/2135 11:46	9.528	17.9	2.240
21/01/2135 11:46	9.534	17.9	2.241
21/01/2135 11:47	9.540	17.9	2.242
21/01/2135 11:47	9.732	17.9	2.241
21/01/2135 11:47	9.744	17.9	2.240
21/01/2135 11:47	9.726	17.9	2.241
21/01/2135 11:47	9.750	17.9	2.241
21/01/2135 11:47	9.894	17.8	2.242
21/01/2135 11:47	9.912	17.8	2.240
21/01/2135 11:47	9.918	17.8	2.241
21/01/2135 11:47	9.924	17.8	2.241
21/01/2135 11:47	10.008	17.8	2.242
21/01/2135 11:47	10.128	17.8	2.240
21/01/2135 11:47	10.116	17.8	2.241
21/01/2135 11:48	10.116	17.8	2.241
21/01/2135 11:48	10.098	17.8	2.241
21/01/2135 11:48	10.122	17.7	2.242
21/01/2135 11:48	10.158	17.7	2.242
21/01/2135 11:48	10.224	17.7	2.242
21/01/2135 11:48	10.326	17.7	2.242
21/01/2135 11:48	10.356	17.7	2.241
21/01/2135 11:48	10.356	17.7	2.242
21/01/2135 11:48	10.374	17.7	2.242
21/01/2135 11:48	10.500	17.7	2.242
21/01/2135 11:48	10.536	17.7	2.241
21/01/2135 11:48	10.548	17.7	2.241
21/01/2135 11:49	10.548	17.7	2.242
21/01/2135 11:49	10.722	17.7	2.242
21/01/2135 11:49	10.710	17.6	2.240



Borehole: ID43-GWBH02
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 4.566
Total Depth (mbgs): 20.560
Screen Interval (mbgs): 21 to 24
***Note:** Well gauged with total depth of 20.56 mbGS. Significant sedimentation at the base of the well.

21/01/2135 11:49	10.728	17.6	2.241
21/01/2135 11:49	10.788	17.6	2.242
21/01/2135 11:49	10.944	17.6	2.241
21/01/2135 11:49	10.944	17.6	2.241
21/01/2135 11:49	10.968	17.6	2.242
21/01/2135 11:49	11.088	17.6	2.242
21/01/2135 11:49	11.142	17.6	2.241
21/01/2135 11:49	11.130	17.6	2.241
21/01/2135 11:49	11.160	17.6	2.242
21/01/2135 11:50	11.214	17.6	2.242
21/01/2135 11:50	11.322	17.6	2.242
21/01/2135 11:50	11.316	17.6	2.241
21/01/2135 11:50	11.322	17.5	2.241
21/01/2135 11:50	11.436	17.5	2.241
21/01/2135 11:50	11.532	17.5	2.241
21/01/2135 11:50	11.526	17.5	2.242
21/01/2135 11:50	11.526	17.5	2.242
21/01/2135 11:50	11.544	17.5	2.243
21/01/2135 11:50	11.538	17.5	2.243
21/01/2135 11:50	11.670	17.5	2.242
21/01/2135 11:50	11.700	17.5	2.242
21/01/2135 11:51	11.712	17.5	2.243
21/01/2135 11:51	11.832	17.5	2.243
21/01/2135 11:51	11.922	17.5	2.242
21/01/2135 11:51	11.940	17.5	2.242
21/01/2135 11:51	11.922	17.5	2.242
21/01/2135 11:51	11.916	17.5	2.242
21/01/2135 11:51	12.096	17.5	2.243
21/01/2135 11:51	12.120	17.5	2.242
21/01/2135 11:51	12.138	17.5	2.242
21/01/2135 11:51	12.234	17.4	2.242
21/01/2135 11:51	12.312	17.4	2.242
21/01/2135 11:51	12.336	17.4	2.242
21/01/2135 11:52	12.318	17.4	2.242
21/01/2135 11:52	12.378	17.4	2.242
21/01/2135 11:52	12.534	17.4	2.242
21/01/2135 11:52	12.534	17.4	2.241
21/01/2135 11:52	12.552	17.4	2.241
21/01/2135 11:52	12.720	17.4	2.242
21/01/2135 11:52	12.726	17.4	2.241
21/01/2135 11:52	12.726	17.4	2.242
21/01/2135 11:52	12.744	17.4	2.242
21/01/2135 11:52	12.864	17.4	2.242
21/01/2135 11:52	12.912	17.4	2.243
21/01/2135 11:52	12.936	17.4	2.243
21/01/2135 11:53	12.936	17.4	2.243
21/01/2135 11:53	12.918	17.4	2.243
21/01/2135 11:53	13.098	17.4	2.243
21/01/2135 11:53	13.116	17.4	2.242
21/01/2135 11:53	13.116	17.4	2.243
21/01/2135 11:53	13.272	17.4	2.243
21/01/2135 11:53	13.314	17.3	2.242
21/01/2135 11:53	13.332	17.3	2.243
21/01/2135 11:53	13.332	17.3	2.243
21/01/2135 11:53	13.524	17.3	2.243
21/01/2135 11:53	13.542	17.3	2.242
21/01/2135 11:53	13.542	17.3	2.242
21/01/2135 11:54	13.626	17.3	2.242
21/01/2135 11:54	13.722	17.3	2.242
21/01/2135 11:54	13.722	17.3	2.242
21/01/2135 11:54	13.716	17.3	2.242
21/01/2135 11:54	13.722	17.3	2.242
21/01/2135 11:54	13.920	17.3	2.242
21/01/2135 11:54	13.926	17.3	2.241
21/01/2135 11:54	13.926	17.3	2.242
21/01/2135 11:54	13.938	17.3	2.242
21/01/2135 11:54	14.106	17.3	2.243
21/01/2135 11:54	14.124	17.3	2.241
21/01/2135 11:54	14.118	17.3	2.242
21/01/2135 11:55	14.124	17.3	2.242
21/01/2135 11:55	14.304	17.3	2.242
21/01/2135 11:55	14.340	17.3	2.242
21/01/2135 11:55	14.340	17.3	2.241
21/01/2135 11:55	14.352	17.3	2.241
21/01/2135 11:55	14.520	17.3	2.242
21/01/2135 11:55	14.544	17.3	2.241
21/01/2135 11:55	14.532	17.3	2.241
21/01/2135 11:55	14.574	17.3	2.242
21/01/2135 11:55	14.730	17.2	2.241
21/01/2135 11:55	14.736	17.2	2.241
21/01/2135 11:55	14.724	17.2	2.242
21/01/2135 11:56	14.742	17.2	2.242
21/01/2135 11:56	14.898	17.2	2.242
21/01/2135 11:56	14.922	17.2	2.241
21/01/2135 11:56	14.928	17.2	2.242
21/01/2135 11:56	14.928	17.2	2.243
21/01/2135 11:56	15.090	17.2	2.242
21/01/2135 11:56	15.138	17.2	2.242
21/01/2135 11:56	15.138	17.2	2.242
21/01/2135 11:56	15.132	17.2	2.242
21/01/2135 11:56	15.330	17.2	2.242
21/01/2135 11:56	15.336	17.2	2.241
21/01/2135 11:56	15.348	17.2	2.242
21/01/2135 11:57	15.342	17.2	2.242
21/01/2135 11:57	15.486	17.2	2.241
21/01/2135 11:57	15.528	17.2	2.242
21/01/2135 11:57	15.534	17.2	2.241
21/01/2135 11:57	15.522	17.2	2.242
21/01/2135 11:57	15.702	17.2	2.242
21/01/2135 11:57	15.726	17.2	2.241
21/01/2135 11:57	15.726	17.2	2.241
21/01/2135 11:57	15.732	17.2	2.241
21/01/2135 11:57	15.882	17.2	2.241
21/01/2135 11:57	15.930	17.2	2.241
21/01/2135 11:57	15.936	17.2	2.241
21/01/2135 11:58	15.942	17.2	2.241
21/01/2135 11:58	16.092	17.2	2.241
21/01/2135 11:58	16.128	17.2	2.241
21/01/2135 11:58	16.128	17.2	2.241

Borehole: ID43-GWBH02
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 4.566
Total Depth (mbgs): 20.560
Screen Interval (mbgs): 21 to 24
***Note:** Well gauged with total depth of 20.56 mbGS. Significant sedimentation at the base of the well.

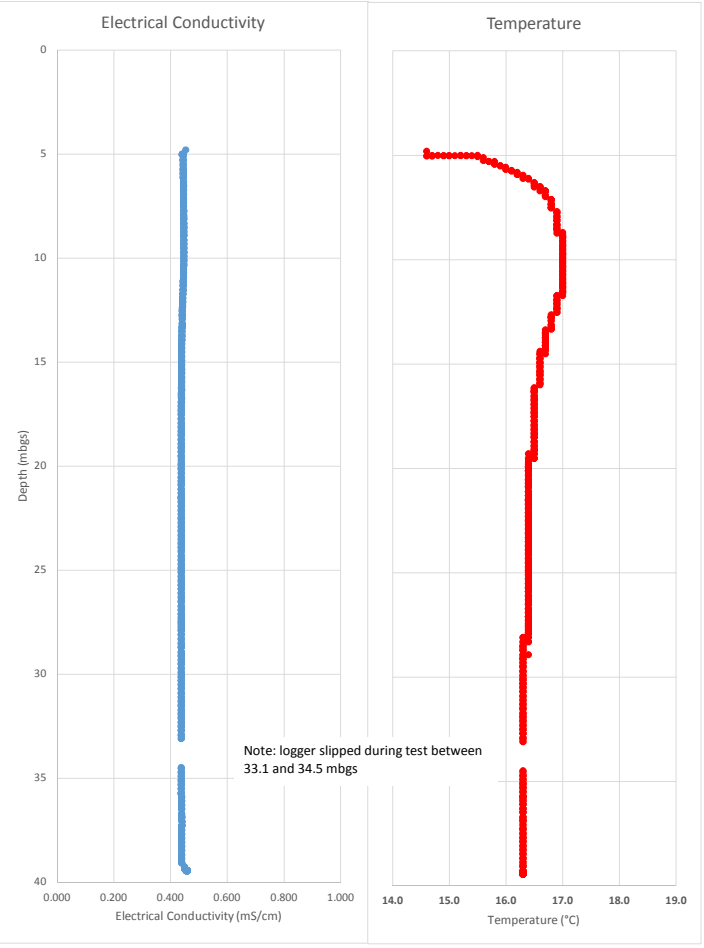
21/01/2135 11:58	16.140	17.2	2.241
21/01/2135 11:58	16.296	17.2	2.241
21/01/2135 11:58	16.332	17.2	2.241
21/01/2135 11:58	16.350	17.2	2.240
21/01/2135 11:58	16.368	17.2	2.241
21/01/2135 11:58	16.518	17.1	2.241
21/01/2135 11:58	16.518	17.1	2.241
21/01/2135 11:58	16.494	17.1	2.241
21/01/2135 11:59	16.518	17.1	2.241
21/01/2135 11:59	16.656	17.1	2.241
21/01/2135 11:59	16.728	17.1	2.241
21/01/2135 11:59	16.740	17.1	2.241
21/01/2135 11:59	16.734	17.1	2.241
21/01/2135 11:59	16.896	17.1	2.241
21/01/2135 11:59	16.932	17.1	2.241
21/01/2135 11:59	16.932	17.1	2.241
21/01/2135 11:59	16.944	17.1	2.241
21/01/2135 11:59	17.106	17.1	2.241
21/01/2135 11:59	17.124	17.1	2.240
21/01/2135 11:59	17.124	17.1	2.241
21/01/2135 12:00	17.142	17.1	2.241
21/01/2135 12:00	17.340	17.1	2.241
21/01/2135 12:00	17.340	17.1	2.240
21/01/2135 12:00	17.328	17.1	2.241
21/01/2135 12:00	17.340	17.1	2.241
21/01/2135 12:00	17.502	17.1	2.241
21/01/2135 12:00	17.520	17.1	2.241
21/01/2135 12:00	17.538	17.1	2.241
21/01/2135 12:00	17.556	17.1	2.241
21/01/2135 12:00	17.670	17.1	2.241
21/01/2135 12:00	17.736	17.1	2.241
21/01/2135 12:00	17.736	17.1	2.241
21/01/2135 12:01	17.730	17.1	2.241
21/01/2135 12:01	17.898	17.1	2.241
21/01/2135 12:01	17.940	17.1	2.241
21/01/2135 12:01	17.934	17.1	2.241
21/01/2135 12:01	17.934	17.1	2.241
21/01/2135 12:01	18.090	17.1	2.242
21/01/2135 12:01	18.126	17.1	2.241
21/01/2135 12:01	18.126	17.1	2.241
21/01/2135 12:01	18.138	17.1	2.242
21/01/2135 12:01	18.306	17.1	2.241
21/01/2135 12:01	18.330	17.1	2.242
21/01/2135 12:01	18.336	17.1	2.242
21/01/2135 12:02	18.330	17.1	2.242
21/01/2135 12:02	18.504	17.1	2.242
21/01/2135 12:02	18.528	17.1	2.243
21/01/2135 12:02	18.516	17.1	2.242
21/01/2135 12:02	18.528	17.1	2.242
21/01/2135 12:02	18.546	17.1	2.242
21/01/2135 12:02	18.738	17.1	2.242
21/01/2135 12:02	18.720	17.1	2.242
21/01/2135 12:02	18.738	17.1	2.242
21/01/2135 12:02	18.876	17.1	2.242
21/01/2135 12:02	18.936	17.1	2.241
21/01/2135 12:02	18.942	17.1	2.241
21/01/2135 12:03	18.948	17.1	2.241
21/01/2135 12:03	19.092	17.1	2.242
21/01/2135 12:03	19.128	17.1	2.241
21/01/2135 12:03	19.152	17.1	2.241
21/01/2135 12:03	19.146	17.1	2.242
21/01/2135 12:03	19.290	17.0	2.242
21/01/2135 12:03	19.326	17.0	2.241
21/01/2135 12:03	19.350	17.0	2.241
21/01/2135 12:03	19.410	17.0	2.241
21/01/2135 12:03	19.530	17.0	2.241
21/01/2135 12:03	19.530	17.0	2.241
21/01/2135 12:03	19.542	17.0	2.242
21/01/2135 12:04	19.566	17.0	2.242
21/01/2135 12:04	19.722	17.0	2.242
21/01/2135 12:04	19.722	17.0	2.241
21/01/2135 12:04	19.734	17.0	2.241
21/01/2135 12:04	19.848	17.0	2.242
21/01/2135 12:04	19.926	17.0	2.242
21/01/2135 12:04	19.932	17.0	2.242
21/01/2135 12:04	19.950	17.0	2.243
21/01/2135 12:04	20.028	17.0	2.242
21/01/2135 12:04	20.148	17.0	2.242
21/01/2135 12:04	20.136	17.0	2.240
21/01/2135 12:04	20.136	17.0	2.240
21/01/2135 12:05	20.130	17.0	2.242
21/01/2135 12:05	20.280	17.0	2.241
21/01/2135 12:05	20.358	17.0	2.241
21/01/2135 12:05	20.352	17.0	2.234
21/01/2135 12:05	20.376	17.0	2.236
21/01/2135 12:05	20.610	17.0	2.237
21/01/2135 12:05	20.574	17.0	2.225
21/01/2135 12:05	20.580	17.0	2.230
21/01/2135 12:05	20.562	17.0	2.232
21/01/2135 12:05	20.550	17.0	2.234
21/01/2135 12:05	20.550	17.0	2.234
21/01/2135 12:05	20.550	17.0	2.234
21/01/2135 12:06	20.544	17.0	2.234
21/01/2135 12:06	20.550	17.0	2.235
21/01/2135 12:06	20.544	17.0	2.234
21/01/2135 12:06	20.550	17.0	2.232
21/01/2135 12:06	20.550	17.0	2.234
21/01/2135 12:06	20.544	17.0	2.232
21/01/2135 12:06	20.538	17.0	2.232
21/01/2135 12:06	20.544	17.0	2.232
21/01/2135 12:06	20.538	17.0	2.232
21/01/2135 12:06	20.544	17.0	2.232
21/01/2135 12:06	20.538	17.0	2.232
21/01/2135 12:06	20.556	17.0	2.232
21/01/2135 12:07	20.550	17.0	2.232
21/01/2135 12:07	20.544	17.0	2.232
21/01/2135 12:07	20.550	17.0	2.231
21/01/2135 12:07	20.538	17.0	2.232
21/01/2135 12:07	20.550	17.0	2.232

Borehole: ID43-GWBH02
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 4.566
Total Depth (mbgs): 20.560
Screen Interval (mbgs): 21 to 24
***Note:** Well gauged with total depth of 20.56 mbGS. Significant sedimentation at the base of the well.

21/01/2135 12:07	20.550	17.0	2.232
21/01/2135 12:07	20.550	17.0	2.232
21/01/2135 12:07	20.550	17.0	2.232
21/01/2135 12:07	20.550	17.0	2.231
21/01/2135 12:07	20.556	17.0	2.232
21/01/2135 12:07	20.544	17.0	2.232
21/01/2135 12:07	20.556	17.0	2.232
21/01/2135 12:08	20.550	17.0	2.232
21/01/2135 12:08	20.562	17.0	2.232
21/01/2135 12:08	20.562	17.0	2.231
21/01/2135 12:08	20.562	17.0	2.232

Borehole: ID44-GWBH02
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 4.771
Total Depth (mbgs): 39.46
Screen Interval (mbgs): 35 to 40
***Note:** Well gauged with total depth of 39.46 mbGS. Some sedimentation at the base of the well.

DateTime	Logger Depth (mbGS)	Water Temperature (°C)	Electrical Conductivity (mS/cm)
11/07/2017 12:39	4.810	14.6	0.453
11/07/2017 12:39	5.050	14.6	0.446
11/07/2017 12:39	5.050	14.7	0.444
11/07/2017 12:39	5.032	14.7	0.443
11/07/2017 12:39	5.038	14.7	0.442
11/07/2017 12:39	5.020	14.8	0.442
11/07/2017 12:39	5.026	14.9	0.441
11/07/2017 12:40	5.032	14.9	0.441
11/07/2017 12:40	5.032	15.0	0.441
11/07/2017 12:40	5.026	15.0	0.441
11/07/2017 12:40	5.032	15.1	0.441
11/07/2017 12:40	5.038	15.2	0.442
11/07/2017 12:40	5.020	15.2	0.442
11/07/2017 12:40	5.026	15.3	0.442
11/07/2017 12:40	5.026	15.3	0.443
11/07/2017 12:40	5.032	15.4	0.443
11/07/2017 12:40	5.014	15.5	0.444
11/07/2017 12:40	5.080	15.5	0.443
11/07/2017 12:40	5.116	15.6	0.444
11/07/2017 12:41	5.260	15.6	0.444
11/07/2017 12:41	5.308	15.7	0.444
11/07/2017 12:41	5.302	15.7	0.444
11/07/2017 12:41	5.308	15.8	0.443
11/07/2017 12:41	5.446	15.8	0.444
11/07/2017 12:41	5.506	15.9	0.444
11/07/2017 12:41	5.524	15.9	0.444
11/07/2017 12:41	5.590	16.0	0.444
11/07/2017 12:41	5.698	16.0	0.444
11/07/2017 12:41	5.734	16.1	0.444
11/07/2017 12:41	5.752	16.1	0.444
11/07/2017 12:41	5.764	16.1	0.444
11/07/2017 12:42	5.836	16.2	0.444
11/07/2017 12:42	5.920	16.2	0.444
11/07/2017 12:42	5.938	16.2	0.444
11/07/2017 12:42	5.962	16.3	0.444
11/07/2017 12:42	6.028	16.3	0.444
11/07/2017 12:42	6.124	16.3	0.445
11/07/2017 12:42	6.118	16.4	0.444
11/07/2017 12:42	6.136	16.4	0.444
11/07/2017 12:42	6.154	16.4	0.444
11/07/2017 12:42	6.322	16.5	0.445
11/07/2017 12:42	6.328	16.5	0.445
11/07/2017 12:42	6.346	16.5	0.445
11/07/2017 12:43	6.442	16.5	0.445
11/07/2017 12:43	6.538	16.5	0.445
11/07/2017 12:43	6.532	16.6	0.445
11/07/2017 12:43	6.538	16.6	0.445
11/07/2017 12:43	6.538	16.6	0.445
11/07/2017 12:43	6.526	16.6	0.445
11/07/2017 12:43	6.532	16.6	0.445
11/07/2017 12:43	6.532	16.6	0.445
11/07/2017 12:43	6.724	16.6	0.446
11/07/2017 12:43	6.724	16.7	0.446
11/07/2017 12:43	6.718	16.7	0.446
11/07/2017 12:43	6.724	16.7	0.445
11/07/2017 12:44	6.736	16.7	0.446
11/07/2017 12:44	6.946	16.7	0.446
11/07/2017 12:44	6.940	16.7	0.446
11/07/2017 12:44	6.934	16.7	0.446
11/07/2017 12:44	7.000	16.7	0.446
11/07/2017 12:44	7.126	16.8	0.446
11/07/2017 12:44	7.138	16.8	0.446
11/07/2017 12:44	7.132	16.8	0.446
11/07/2017 12:44	7.216	16.8	0.446
11/07/2017 12:44	7.342	16.8	0.446
11/07/2017 12:44	7.342	16.8	0.446
11/07/2017 12:44	7.366	16.8	0.446
11/07/2017 12:45	7.384	16.8	0.446
11/07/2017 12:45	7.516	16.8	0.446
11/07/2017 12:45	7.528	16.8	0.446
11/07/2017 12:45	7.528	16.8	0.446
11/07/2017 12:45	7.522	16.8	0.446
11/07/2017 12:45	7.720	16.9	0.446
11/07/2017 12:45	7.726	16.9	0.446
11/07/2017 12:45	7.732	16.9	0.447
11/07/2017 12:45	7.774	16.9	0.447
11/07/2017 12:45	7.948	16.9	0.447
11/07/2017 12:45	7.924	16.9	0.446
11/07/2017 12:45	7.930	16.9	0.446
11/07/2017 12:46	8.038	16.9	0.447
11/07/2017 12:46	8.134	16.9	0.446
11/07/2017 12:46	8.140	16.9	0.447
11/07/2017 12:46	8.140	16.9	0.447
11/07/2017 12:46	8.326	16.9	0.446
11/07/2017 12:46	8.338	16.9	0.447
11/07/2017 12:46	8.344	16.9	0.447
11/07/2017 12:46	8.350	16.9	0.447
11/07/2017 12:46	8.470	16.9	0.447
11/07/2017 12:46	8.530	16.9	0.447
11/07/2017 12:46	8.536	16.9	0.447
11/07/2017 12:46	8.542	16.9	0.447
11/07/2017 12:47	8.602	16.9	0.447
11/07/2017 12:47	8.710	17.0	0.447
11/07/2017 12:47	8.740	16.9	0.447
11/07/2017 12:47	8.782	17.0	0.447
11/07/2017 12:47	8.878	17.0	0.447
11/07/2017 12:47	8.932	17.0	0.447
11/07/2017 12:47	8.920	17.0	0.447
11/07/2017 12:47	8.914	17.0	0.447
11/07/2017 12:47	8.968	17.0	0.446
11/07/2017 12:47	9.130	17.0	0.447
11/07/2017 12:47	9.148	17.0	0.447
11/07/2017 12:47	9.130	17.0	0.447
11/07/2017 12:48	9.292	17.0	0.447
11/07/2017 12:48	9.328	17.0	0.447
11/07/2017 12:48	9.334	17.0	0.446



Borehole: ID44-GWBH02
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 4.771
Total Depth (mbgs): 39.46
Screen Interval (mbgs): 35 to 40
***Note:** Well gauged with total depth of 39.46 mbGS. Some sedimentation at the base of the well.

11/07/2017 12:48	9.328	17.0	0.447
11/07/2017 12:48	9.430	17.0	0.447
11/07/2017 12:48	9.514	17.0	0.447
11/07/2017 12:48	9.544	17.0	0.447
11/07/2017 12:48	9.556	17.0	0.447
11/07/2017 12:48	9.688	17.0	0.447
11/07/2017 12:48	9.754	17.0	0.447
11/07/2017 12:48	9.760	17.0	0.447
11/07/2017 12:48	9.718	17.0	0.447
11/07/2017 12:49	9.748	17.0	0.447
11/07/2017 12:49	9.922	17.0	0.447
11/07/2017 12:49	9.916	17.0	0.447
11/07/2017 12:49	9.922	17.0	0.447
11/07/2017 12:49	10.024	17.0	0.447
11/07/2017 12:49	10.132	17.0	0.447
11/07/2017 12:49	10.126	17.0	0.447
11/07/2017 12:49	10.126	17.0	0.447
11/07/2017 12:49	10.252	17.0	0.447
11/07/2017 12:49	10.330	17.0	0.447
11/07/2017 12:49	10.330	17.0	0.446
11/07/2017 12:49	10.354	17.0	0.446
11/07/2017 12:50	10.390	17.0	0.447
11/07/2017 12:50	10.534	17.0	0.446
11/07/2017 12:50	10.528	17.0	0.446
11/07/2017 12:50	10.534	17.0	0.446
11/07/2017 12:50	10.600	17.0	0.446
11/07/2017 12:50	10.726	17.0	0.446
11/07/2017 12:50	10.732	17.0	0.446
11/07/2017 12:50	10.738	17.0	0.446
11/07/2017 12:50	10.822	17.0	0.445
11/07/2017 12:50	10.930	17.0	0.445
11/07/2017 12:50	10.942	17.0	0.445
11/07/2017 12:50	10.954	17.0	0.445
11/07/2017 12:51	11.086	17.0	0.444
11/07/2017 12:51	11.134	17.0	0.444
11/07/2017 12:51	11.128	17.0	0.444
11/07/2017 12:51	11.158	17.0	0.444
11/07/2017 12:51	11.242	17.0	0.444
11/07/2017 12:51	11.320	17.0	0.444
11/07/2017 12:51	11.326	17.0	0.444
11/07/2017 12:51	11.338	17.0	0.444
11/07/2017 12:51	11.368	17.0	0.444
11/07/2017 12:51	11.524	17.0	0.443
11/07/2017 12:51	11.542	17.0	0.444
11/07/2017 12:51	11.554	17.0	0.444
11/07/2017 12:52	11.572	17.0	0.444
11/07/2017 12:52	11.734	17.0	0.443
11/07/2017 12:52	11.728	16.9	0.443
11/07/2017 12:52	11.728	16.9	0.443
11/07/2017 12:52	11.758	16.9	0.443
11/07/2017 12:52	11.926	16.9	0.442
11/07/2017 12:52	11.926	16.9	0.442
11/07/2017 12:52	11.932	16.9	0.443
11/07/2017 12:52	11.992	16.9	0.442
11/07/2017 12:52	12.130	16.9	0.442
11/07/2017 12:52	12.112	16.9	0.442
11/07/2017 12:52	12.124	16.9	0.443
11/07/2017 12:53	12.244	16.9	0.442
11/07/2017 12:53	12.328	16.9	0.442
11/07/2017 12:53	12.346	16.9	0.442
11/07/2017 12:53	12.346	16.9	0.442
11/07/2017 12:53	12.400	16.9	0.441
11/07/2017 12:53	12.532	16.9	0.441
11/07/2017 12:53	12.538	16.9	0.441
11/07/2017 12:53	12.538	16.9	0.441
11/07/2017 12:53	12.658	16.8	0.441
11/07/2017 12:53	12.742	16.8	0.441
11/07/2017 12:53	12.772	16.8	0.441
11/07/2017 12:53	12.772	16.8	0.441
11/07/2017 12:54	12.760	16.8	0.441
11/07/2017 12:54	12.796	16.8	0.441
11/07/2017 12:54	12.928	16.8	0.441
11/07/2017 12:54	12.946	16.8	0.441
11/07/2017 12:54	13.132	16.8	0.441
11/07/2017 12:54	13.150	16.8	0.441
11/07/2017 12:54	13.198	16.8	0.441
11/07/2017 12:54	13.258	16.8	0.441
11/07/2017 12:54	13.324	16.8	0.441
11/07/2017 12:54	13.336	16.8	0.441
11/07/2017 12:54	13.336	16.8	0.441
11/07/2017 12:54	13.330	16.8	0.441
11/07/2017 12:55	13.372	16.7	0.440
11/07/2017 12:55	13.510	16.7	0.440
11/07/2017 12:55	13.528	16.7	0.440
11/07/2017 12:55	13.528	16.7	0.440
11/07/2017 12:55	13.624	16.7	0.440
11/07/2017 12:55	13.738	16.7	0.440
11/07/2017 12:55	13.750	16.7	0.440
11/07/2017 12:55	13.738	16.7	0.440
11/07/2017 12:55	13.852	16.7	0.440
11/07/2017 12:55	13.942	16.7	0.439
11/07/2017 12:55	13.966	16.7	0.440
11/07/2017 12:55	13.960	16.7	0.440
11/07/2017 12:56	14.116	16.7	0.439
11/07/2017 12:56	14.140	16.7	0.439
11/07/2017 12:56	14.134	16.7	0.439
11/07/2017 12:56	14.128	16.7	0.439
11/07/2017 12:56	14.248	16.7	0.439
11/07/2017 12:56	14.332	16.7	0.439
11/07/2017 12:56	14.344	16.7	0.439
11/07/2017 12:56	14.332	16.7	0.439
11/07/2017 12:56	14.398	16.6	0.439
11/07/2017 12:56	14.518	16.7	0.439
11/07/2017 12:56	14.524	16.6	0.439
11/07/2017 12:56	14.524	16.6	0.439
11/07/2017 12:57	14.542	16.6	0.439
11/07/2017 12:57	14.704	16.6	0.439
11/07/2017 12:57	14.734	16.6	0.439
11/07/2017 12:57	14.734	16.6	0.439

Borehole: ID44-GWBH02
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 4.771
Total Depth (mbgs): 39.46
Screen Interval (mbgs): 35 to 40
***Note:** Well gauged with total depth of 39.46 mbGS. Some sedimentation at the base of the well.

11/07/2017 12:57	14.782	16.6	0.439
11/07/2017 12:57	14.932	16.6	0.439
11/07/2017 12:57	14.932	16.6	0.439
11/07/2017 12:57	14.932	16.6	0.439
11/07/2017 12:57	14.980	16.6	0.439
11/07/2017 12:57	15.124	16.6	0.439
11/07/2017 12:57	15.130	16.6	0.439
11/07/2017 12:57	15.118	16.6	0.439
11/07/2017 12:58	15.226	16.6	0.439
11/07/2017 12:58	15.346	16.6	0.439
11/07/2017 12:58	15.358	16.6	0.439
11/07/2017 12:58	15.370	16.6	0.439
11/07/2017 12:58	15.418	16.6	0.439
11/07/2017 12:58	15.526	16.6	0.439
11/07/2017 12:58	15.532	16.6	0.439
11/07/2017 12:58	15.532	16.6	0.439
11/07/2017 12:58	15.544	16.6	0.439
11/07/2017 12:58	15.730	16.6	0.439
11/07/2017 12:58	15.718	16.6	0.439
11/07/2017 12:58	15.736	16.6	0.439
11/07/2017 12:59	15.802	16.6	0.439
11/07/2017 12:59	15.940	16.6	0.439
11/07/2017 12:59	15.940	16.6	0.439
11/07/2017 12:59	15.934	16.6	0.439
11/07/2017 12:59	16.012	16.6	0.439
11/07/2017 12:59	16.144	16.5	0.439
11/07/2017 12:59	16.162	16.5	0.439
11/07/2017 12:59	16.240	16.5	0.438
11/07/2017 12:59	16.312	16.5	0.439
11/07/2017 12:59	16.324	16.5	0.439
11/07/2017 12:59	16.336	16.5	0.439
11/07/2017 12:59	16.330	16.5	0.439
11/07/2017 13:00	16.378	16.5	0.439
11/07/2017 13:00	16.528	16.5	0.438
11/07/2017 13:00	16.540	16.5	0.438
11/07/2017 13:00	16.570	16.5	0.439
11/07/2017 13:00	16.636	16.5	0.438
11/07/2017 13:00	16.726	16.5	0.438
11/07/2017 13:00	16.738	16.5	0.439
11/07/2017 13:00	16.732	16.5	0.439
11/07/2017 13:00	16.798	16.5	0.439
11/07/2017 13:00	16.924	16.5	0.438
11/07/2017 13:00	16.930	16.5	0.438
11/07/2017 13:00	16.930	16.5	0.439
11/07/2017 13:01	17.002	16.5	0.438
11/07/2017 13:01	17.116	16.5	0.438
11/07/2017 13:01	17.122	16.5	0.438
11/07/2017 13:01	17.152	16.5	0.438
11/07/2017 13:01	17.254	16.5	0.438
11/07/2017 13:01	17.320	16.5	0.438
11/07/2017 13:01	17.356	16.5	0.438
11/07/2017 13:01	17.338	16.5	0.438
11/07/2017 13:01	17.398	16.5	0.438
11/07/2017 13:01	17.524	16.5	0.438
11/07/2017 13:01	17.530	16.5	0.438
11/07/2017 13:01	17.530	16.5	0.438
11/07/2017 13:02	17.530	16.5	0.438
11/07/2017 13:02	17.710	16.5	0.438
11/07/2017 13:02	17.728	16.5	0.438
11/07/2017 13:02	17.734	16.5	0.438
11/07/2017 13:02	17.770	16.5	0.438
11/07/2017 13:02	17.932	16.5	0.438
11/07/2017 13:02	17.920	16.5	0.438
11/07/2017 13:02	17.944	16.5	0.438
11/07/2017 13:02	18.004	16.5	0.438
11/07/2017 13:02	18.124	16.5	0.438
11/07/2017 13:02	18.136	16.5	0.438
11/07/2017 13:02	18.124	16.5	0.438
11/07/2017 13:03	18.208	16.5	0.438
11/07/2017 13:03	18.316	16.5	0.438
11/07/2017 13:03	18.328	16.5	0.438
11/07/2017 13:03	18.346	16.5	0.438
11/07/2017 13:03	18.436	16.5	0.438
11/07/2017 13:03	18.496	16.5	0.438
11/07/2017 13:03	18.520	16.5	0.438
11/07/2017 13:03	18.526	16.5	0.438
11/07/2017 13:03	18.550	16.5	0.438
11/07/2017 13:03	18.730	16.5	0.438
11/07/2017 13:03	18.742	16.5	0.438
11/07/2017 13:03	18.730	16.5	0.438
11/07/2017 13:04	18.754	16.5	0.438
11/07/2017 13:04	18.928	16.5	0.438
11/07/2017 13:04	18.928	16.5	0.438
11/07/2017 13:04	18.922	16.5	0.438
11/07/2017 13:04	19.036	16.5	0.438
11/07/2017 13:04	19.126	16.5	0.438
11/07/2017 13:04	19.138	16.5	0.438
11/07/2017 13:04	19.126	16.5	0.438
11/07/2017 13:04	19.144	16.5	0.438
11/07/2017 13:04	19.312	16.4	0.438
11/07/2017 13:04	19.312	16.5	0.438
11/07/2017 13:04	19.318	16.5	0.438
11/07/2017 13:05	19.330	16.5	0.438
11/07/2017 13:05	19.534	16.5	0.438
11/07/2017 13:05	19.522	16.5	0.438
11/07/2017 13:05	19.522	16.4	0.438
11/07/2017 13:05	19.528	16.5	0.438
11/07/2017 13:05	19.522	16.5	0.438
11/07/2017 13:05	19.654	16.4	0.438
11/07/2017 13:05	19.750	16.4	0.438
11/07/2017 13:05	19.810	16.4	0.438
11/07/2017 13:05	19.924	16.4	0.438
11/07/2017 13:05	19.930	16.4	0.438
11/07/2017 13:05	19.924	16.4	0.438
11/07/2017 13:06	19.972	16.4	0.438
11/07/2017 13:06	20.122	16.4	0.438
11/07/2017 13:06	20.122	16.4	0.438
11/07/2017 13:06	20.128	16.4	0.438
11/07/2017 13:06	20.122	16.4	0.438

Borehole: ID44-GWBH02
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 4.771
Total Depth (mbgs): 39.46
Screen Interval (mbgs): 35 to 40
***Note:** Well gauged with total depth of 39.46 mbGS. Some sedimentation at the base of the well.

11/07/2017 13:06	20.176	16.4	0.438
11/07/2017 13:06	20.326	16.4	0.438
11/07/2017 13:06	20.320	16.4	0.438
11/07/2017 13:06	20.386	16.4	0.438
11/07/2017 13:06	20.548	16.4	0.438
11/07/2017 13:06	20.542	16.4	0.438
11/07/2017 13:06	20.548	16.4	0.438
11/07/2017 13:07	20.590	16.4	0.438
11/07/2017 13:07	20.728	16.4	0.438
11/07/2017 13:07	20.722	16.4	0.438
11/07/2017 13:07	20.722	16.4	0.438
11/07/2017 13:07	20.830	16.4	0.438
11/07/2017 13:07	20.908	16.4	0.438
11/07/2017 13:07	20.896	16.4	0.438
11/07/2017 13:07	20.890	16.4	0.438
11/07/2017 13:07	20.932	16.4	0.438
11/07/2017 13:07	21.124	16.4	0.438
11/07/2017 13:07	21.118	16.4	0.438
11/07/2017 13:07	21.118	16.4	0.438
11/07/2017 13:08	21.142	16.4	0.438
11/07/2017 13:08	21.310	16.4	0.438
11/07/2017 13:08	21.310	16.4	0.438
11/07/2017 13:08	21.310	16.4	0.438
11/07/2017 13:08	21.424	16.4	0.438
11/07/2017 13:08	21.514	16.4	0.438
11/07/2017 13:08	21.520	16.4	0.438
11/07/2017 13:08	21.514	16.4	0.438
11/07/2017 13:08	21.520	16.4	0.438
11/07/2017 13:08	21.526	16.4	0.438
11/07/2017 13:08	21.532	16.4	0.438
11/07/2017 13:08	21.568	16.4	0.438
11/07/2017 13:09	21.622	16.4	0.438
11/07/2017 13:09	21.718	16.4	0.438
11/07/2017 13:09	21.724	16.4	0.438
11/07/2017 13:09	21.718	16.4	0.438
11/07/2017 13:09	21.760	16.4	0.438
11/07/2017 13:09	21.916	16.4	0.437
11/07/2017 13:09	21.904	16.4	0.438
11/07/2017 13:09	21.928	16.4	0.438
11/07/2017 13:09	21.964	16.4	0.438
11/07/2017 13:09	22.114	16.4	0.438
11/07/2017 13:09	22.132	16.4	0.437
11/07/2017 13:09	22.138	16.4	0.438
11/07/2017 13:10	22.174	16.4	0.438
11/07/2017 13:10	22.306	16.4	0.438
11/07/2017 13:10	22.324	16.4	0.438
11/07/2017 13:10	22.324	16.4	0.438
11/07/2017 13:10	22.462	16.4	0.437
11/07/2017 13:10	22.528	16.4	0.438
11/07/2017 13:10	22.522	16.4	0.438
11/07/2017 13:10	22.528	16.4	0.438
11/07/2017 13:10	22.588	16.4	0.438
11/07/2017 13:10	22.720	16.4	0.437
11/07/2017 13:10	22.720	16.4	0.438
11/07/2017 13:10	22.720	16.4	0.438
11/07/2017 13:11	22.864	16.4	0.438
11/07/2017 13:11	22.918	16.4	0.438
11/07/2017 13:11	22.918	16.4	0.438
11/07/2017 13:11	22.972	16.4	0.438
11/07/2017 13:11	23.104	16.4	0.438
11/07/2017 13:11	23.110	16.4	0.438
11/07/2017 13:11	23.116	16.4	0.438
11/07/2017 13:11	23.128	16.4	0.438
11/07/2017 13:11	23.200	16.4	0.438
11/07/2017 13:11	23.320	16.4	0.437
11/07/2017 13:11	23.326	16.4	0.437
11/07/2017 13:11	23.338	16.4	0.437
11/07/2017 13:12	23.404	16.4	0.437
11/07/2017 13:12	23.518	16.4	0.438
11/07/2017 13:12	23.512	16.4	0.438
11/07/2017 13:12	23.548	16.4	0.437
11/07/2017 13:12	23.668	16.4	0.437
11/07/2017 13:12	23.728	16.4	0.438
11/07/2017 13:12	23.728	16.4	0.437
11/07/2017 13:12	23.716	16.4	0.438
11/07/2017 13:12	23.776	16.4	0.438
11/07/2017 13:12	23.908	16.4	0.437
11/07/2017 13:12	23.914	16.4	0.437
11/07/2017 13:12	23.914	16.4	0.438
11/07/2017 13:13	23.920	16.4	0.438
11/07/2017 13:13	24.034	16.4	0.438
11/07/2017 13:13	24.112	16.4	0.437
11/07/2017 13:13	24.106	16.4	0.437
11/07/2017 13:13	24.142	16.4	0.437
11/07/2017 13:13	24.322	16.4	0.437
11/07/2017 13:13	24.322	16.4	0.437
11/07/2017 13:13	24.310	16.4	0.438
11/07/2017 13:13	24.400	16.4	0.438
11/07/2017 13:13	24.520	16.4	0.438
11/07/2017 13:13	24.514	16.4	0.437
11/07/2017 13:13	24.514	16.4	0.437
11/07/2017 13:14	24.574	16.4	0.438
11/07/2017 13:14	24.718	16.4	0.437
11/07/2017 13:14	24.712	16.4	0.437
11/07/2017 13:14	24.742	16.4	0.437
11/07/2017 13:14	24.826	16.4	0.437
11/07/2017 13:14	24.910	16.4	0.437
11/07/2017 13:14	24.922	16.4	0.437
11/07/2017 13:14	24.928	16.4	0.437
11/07/2017 13:14	24.982	16.4	0.437
11/07/2017 13:14	25.102	16.4	0.437
11/07/2017 13:14	25.096	16.4	0.438
11/07/2017 13:14	25.108	16.4	0.437
11/07/2017 13:15	25.162	16.4	0.437
11/07/2017 13:15	25.312	16.4	0.437
11/07/2017 13:15	25.312	16.4	0.437
11/07/2017 13:15	25.324	16.4	0.437
11/07/2017 13:15	25.414	16.4	0.437
11/07/2017 13:15	25.516	16.4	0.437

Borehole: ID44-GWBH02
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 4.771
Total Depth (mbgs): 39.46
Screen Interval (mbgs): 35 to 40
***Note:** Well gauged with total depth of 39.46 mbGS. Some sedimentation at the base of the well.

11/07/2017 13:15	25.516	16.4	0.437
11/07/2017 13:15	25.534	16.4	0.437
11/07/2017 13:15	25.600	16.4	0.437
11/07/2017 13:15	25.714	16.4	0.437
11/07/2017 13:15	25.726	16.4	0.437
11/07/2017 13:15	25.744	16.4	0.437
11/07/2017 13:16	25.762	16.4	0.437
11/07/2017 13:16	25.924	16.4	0.437
11/07/2017 13:16	25.912	16.4	0.437
11/07/2017 13:16	25.906	16.4	0.437
11/07/2017 13:16	25.912	16.4	0.437
11/07/2017 13:16	26.104	16.4	0.437
11/07/2017 13:16	26.110	16.4	0.437
11/07/2017 13:16	26.104	16.4	0.437
11/07/2017 13:16	26.164	16.4	0.437
11/07/2017 13:16	26.308	16.4	0.437
11/07/2017 13:16	26.314	16.4	0.437
11/07/2017 13:16	26.326	16.4	0.437
11/07/2017 13:17	26.440	16.4	0.437
11/07/2017 13:17	26.512	16.4	0.437
11/07/2017 13:17	26.518	16.4	0.437
11/07/2017 13:17	26.524	16.4	0.437
11/07/2017 13:17	26.548	16.4	0.437
11/07/2017 13:17	26.740	16.4	0.437
11/07/2017 13:17	26.740	16.4	0.437
11/07/2017 13:17	26.746	16.4	0.437
11/07/2017 13:17	26.752	16.4	0.437
11/07/2017 13:17	26.914	16.4	0.437
11/07/2017 13:17	26.920	16.4	0.437
11/07/2017 13:17	26.920	16.4	0.437
11/07/2017 13:18	26.926	16.4	0.437
11/07/2017 13:18	27.106	16.4	0.437
11/07/2017 13:18	27.118	16.4	0.437
11/07/2017 13:18	27.130	16.4	0.437
11/07/2017 13:18	27.106	16.4	0.437
11/07/2017 13:18	27.136	16.4	0.437
11/07/2017 13:18	27.304	16.4	0.437
11/07/2017 13:18	27.274	16.4	0.437
11/07/2017 13:18	27.292	16.4	0.437
11/07/2017 13:18	27.394	16.4	0.437
11/07/2017 13:18	27.418	16.4	0.437
11/07/2017 13:18	27.472	16.4	0.437
11/07/2017 13:19	27.514	16.4	0.437
11/07/2017 13:19	27.526	16.4	0.437
11/07/2017 13:19	27.574	16.4	0.437
11/07/2017 13:19	27.592	16.4	0.437
11/07/2017 13:19	27.640	16.4	0.437
11/07/2017 13:19	27.688	16.4	0.437
11/07/2017 13:19	27.736	16.4	0.437
11/07/2017 13:19	27.772	16.4	0.437
11/07/2017 13:19	27.814	16.4	0.437
11/07/2017 13:19	27.880	16.4	0.437
11/07/2017 13:19	27.904	16.4	0.437
11/07/2017 13:19	27.904	16.4	0.437
11/07/2017 13:20	27.922	16.4	0.437
11/07/2017 13:20	28.090	16.4	0.437
11/07/2017 13:20	28.108	16.3	0.437
11/07/2017 13:20	28.114	16.4	0.437
11/07/2017 13:20	28.108	16.3	0.437
11/07/2017 13:20	28.294	16.3	0.437
11/07/2017 13:20	28.312	16.4	0.437
11/07/2017 13:20	28.324	16.4	0.437
11/07/2017 13:20	28.360	16.3	0.437
11/07/2017 13:20	28.516	16.3	0.437
11/07/2017 13:20	28.528	16.3	0.437
11/07/2017 13:20	28.534	16.3	0.437
11/07/2017 13:21	28.588	16.3	0.437
11/07/2017 13:21	28.714	16.3	0.437
11/07/2017 13:21	28.708	16.3	0.437
11/07/2017 13:21	28.726	16.3	0.437
11/07/2017 13:21	28.708	16.3	0.437
11/07/2017 13:21	28.930	16.3	0.437
11/07/2017 13:21	28.942	16.3	0.437
11/07/2017 13:21	28.948	16.4	0.437
11/07/2017 13:21	29.026	16.3	0.437
11/07/2017 13:21	29.110	16.3	0.437
11/07/2017 13:21	29.128	16.3	0.437
11/07/2017 13:21	29.146	16.3	0.437
11/07/2017 13:22	29.164	16.3	0.437
11/07/2017 13:22	29.302	16.3	0.437
11/07/2017 13:22	29.332	16.3	0.437
11/07/2017 13:22	29.320	16.3	0.437
11/07/2017 13:22	29.446	16.3	0.437
11/07/2017 13:22	29.506	16.3	0.437
11/07/2017 13:22	29.512	16.3	0.437
11/07/2017 13:22	29.512	16.3	0.437
11/07/2017 13:22	29.542	16.3	0.437
11/07/2017 13:22	29.722	16.3	0.437
11/07/2017 13:22	29.722	16.3	0.437
11/07/2017 13:22	29.728	16.3	0.437
11/07/2017 13:23	29.752	16.3	0.437
11/07/2017 13:23	29.914	16.3	0.437
11/07/2017 13:23	29.926	16.3	0.437
11/07/2017 13:23	29.950	16.3	0.437
11/07/2017 13:23	30.028	16.3	0.437
11/07/2017 13:23	30.124	16.3	0.437
11/07/2017 13:23	30.124	16.3	0.437
11/07/2017 13:23	30.136	16.3	0.437
11/07/2017 13:23	30.184	16.3	0.437
11/07/2017 13:23	30.328	16.3	0.437
11/07/2017 13:23	30.328	16.3	0.437
11/07/2017 13:23	30.328	16.3	0.437
11/07/2017 13:24	30.322	16.3	0.437
11/07/2017 13:24	30.472	16.3	0.437
11/07/2017 13:24	30.508	16.3	0.437
11/07/2017 13:24	30.496	16.3	0.437
11/07/2017 13:24	30.556	16.3	0.437
11/07/2017 13:24	30.694	16.3	0.437
11/07/2017 13:24	30.706	16.3	0.437

Borehole: ID44-GWBH02
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 4.771
Total Depth (mbgs): 39.46
Screen Interval (mbgs): 35 to 40
***Note:** Well gauged with total depth of 39.46 mbGS. Some sedimentation at the base of the well.

11/07/2017 13:24	30.706	16.3	0.437
11/07/2017 13:24	30.724	16.3	0.437
11/07/2017 13:24	30.904	16.3	0.437
11/07/2017 13:24	30.928	16.3	0.437
11/07/2017 13:24	30.916	16.3	0.437
11/07/2017 13:25	30.958	16.3	0.437
11/07/2017 13:25	31.108	16.3	0.437
11/07/2017 13:25	31.120	16.3	0.437
11/07/2017 13:25	31.108	16.3	0.437
11/07/2017 13:25	31.252	16.3	0.437
11/07/2017 13:25	31.312	16.3	0.437
11/07/2017 13:25	31.330	16.3	0.438
11/07/2017 13:25	31.336	16.3	0.437
11/07/2017 13:25	31.468	16.3	0.437
11/07/2017 13:25	31.516	16.3	0.437
11/07/2017 13:25	31.522	16.3	0.437
11/07/2017 13:25	31.516	16.3	0.437
11/07/2017 13:26	31.588	16.3	0.437
11/07/2017 13:26	31.732	16.3	0.437
11/07/2017 13:26	31.744	16.3	0.437
11/07/2017 13:26	31.744	16.3	0.437
11/07/2017 13:26	31.846	16.3	0.437
11/07/2017 13:26	31.912	16.3	0.437
11/07/2017 13:26	31.924	16.3	0.437
11/07/2017 13:26	31.912	16.3	0.437
11/07/2017 13:26	32.002	16.3	0.437
11/07/2017 13:26	32.110	16.3	0.437
11/07/2017 13:26	32.098	16.3	0.437
11/07/2017 13:26	32.098	16.3	0.437
11/07/2017 13:27	32.164	16.3	0.437
11/07/2017 13:27	32.314	16.3	0.437
11/07/2017 13:27	32.320	16.3	0.437
11/07/2017 13:27	32.302	16.3	0.437
11/07/2017 13:27	32.398	16.3	0.437
11/07/2017 13:27	32.524	16.3	0.437
11/07/2017 13:27	32.518	16.3	0.437
11/07/2017 13:27	32.530	16.3	0.437
11/07/2017 13:27	32.530	16.3	0.437
11/07/2017 13:27	32.704	16.3	0.437
11/07/2017 13:27	32.716	16.3	0.437
11/07/2017 13:27	32.710	16.3	0.437
11/07/2017 13:28	32.722	16.3	0.437
11/07/2017 13:28	32.920	16.3	0.437
11/07/2017 13:28	32.932	16.3	0.437
11/07/2017 13:28	32.932	16.3	0.437
11/07/2017 13:28	32.992	16.3	0.437
11/07/2017 13:28	33.112	16.3	0.437
11/07/2017 13:28	33.106	16.3	0.437
11/07/2017 13:30	34.504	16.3	0.437
11/07/2017 13:30	34.504	16.3	0.437
11/07/2017 13:31	34.570	16.3	0.437
11/07/2017 13:31	34.714	16.3	0.437
11/07/2017 13:31	34.732	16.3	0.437
11/07/2017 13:31	34.732	16.3	0.438
11/07/2017 13:31	34.798	16.3	0.438
11/07/2017 13:31	34.918	16.3	0.438
11/07/2017 13:31	34.918	16.3	0.438
11/07/2017 13:31	34.924	16.3	0.438
11/07/2017 13:31	35.068	16.3	0.438
11/07/2017 13:31	35.122	16.3	0.438
11/07/2017 13:31	35.110	16.3	0.438
11/07/2017 13:31	35.128	16.3	0.438
11/07/2017 13:32	35.206	16.3	0.438
11/07/2017 13:32	35.314	16.3	0.438
11/07/2017 13:32	35.314	16.3	0.438
11/07/2017 13:32	35.320	16.3	0.438
11/07/2017 13:32	35.344	16.3	0.438
11/07/2017 13:32	35.518	16.3	0.438
11/07/2017 13:32	35.506	16.3	0.438
11/07/2017 13:32	35.506	16.3	0.438
11/07/2017 13:32	35.512	16.3	0.438
11/07/2017 13:32	35.692	16.3	0.438
11/07/2017 13:32	35.740	16.3	0.438
11/07/2017 13:32	35.734	16.3	0.438
11/07/2017 13:33	35.734	16.3	0.438
11/07/2017 13:33	35.728	16.3	0.438
11/07/2017 13:33	35.734	16.3	0.438
11/07/2017 13:33	35.758	16.3	0.438
11/07/2017 13:33	35.794	16.3	0.438
11/07/2017 13:33	35.902	16.3	0.439
11/07/2017 13:33	35.902	16.3	0.439
11/07/2017 13:33	35.908	16.3	0.439
11/07/2017 13:33	35.974	16.3	0.439
11/07/2017 13:33	36.094	16.3	0.439
11/07/2017 13:33	36.106	16.3	0.439
11/07/2017 13:33	36.106	16.3	0.439
11/07/2017 13:34	36.118	16.3	0.439
11/07/2017 13:34	36.298	16.3	0.439
11/07/2017 13:34	36.298	16.3	0.439
11/07/2017 13:34	36.298	16.3	0.439
11/07/2017 13:34	36.334	16.3	0.439
11/07/2017 13:34	36.484	16.3	0.439
11/07/2017 13:34	36.478	16.3	0.439
11/07/2017 13:34	36.484	16.3	0.439
11/07/2017 13:34	36.496	16.3	0.439
11/07/2017 13:34	36.712	16.3	0.439
11/07/2017 13:34	36.724	16.3	0.439
11/07/2017 13:34	36.724	16.3	0.439
11/07/2017 13:35	36.784	16.3	0.439
11/07/2017 13:35	36.886	16.3	0.440
11/07/2017 13:35	36.892	16.3	0.439
11/07/2017 13:35	36.892	16.3	0.439
11/07/2017 13:35	36.886	16.3	0.440
11/07/2017 13:35	37.006	16.3	0.439
11/07/2017 13:35	37.114	16.3	0.441
11/07/2017 13:35	37.096	16.3	0.440
11/07/2017 13:35	37.288	16.3	0.440
11/07/2017 13:35	37.282	16.3	0.440
11/07/2017 13:35	37.276	16.3	0.440

Borehole: ID44-GWBH02
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 4.771
Total Depth (mbgs): 39.46
Screen Interval (mbgs): 35 to 40
***Note:** Well gauged with total depth of 39.46 mbGS. Some sedimentation at the base of the well.

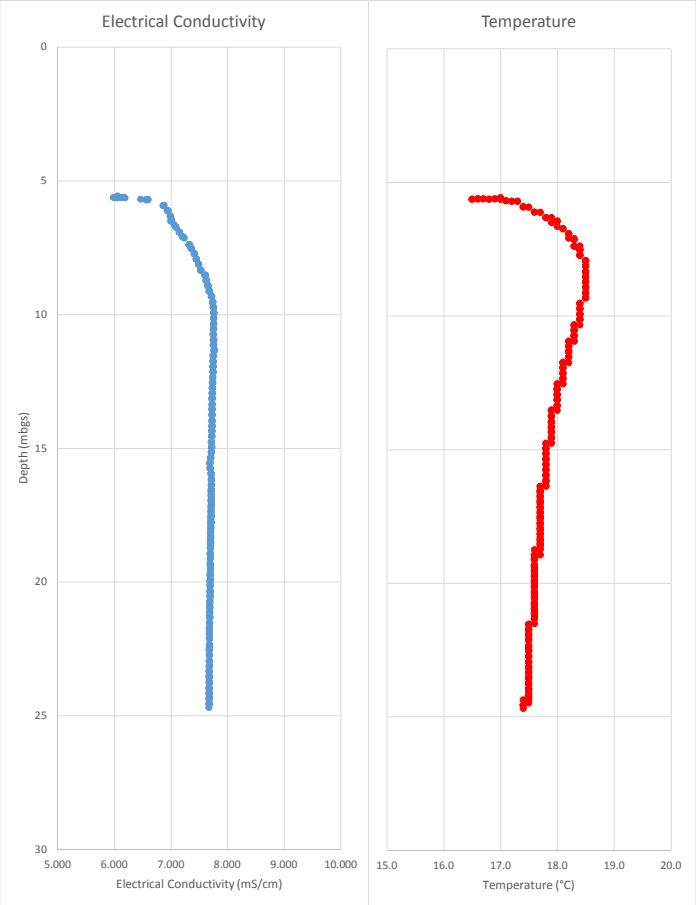
11/07/2017 13:35	37.276	16.3	0.440
11/07/2017 13:36	37.354	16.3	0.439
11/07/2017 13:36	37.480	16.3	0.439
11/07/2017 13:36	37.498	16.3	0.439
11/07/2017 13:36	37.504	16.3	0.439
11/07/2017 13:36	37.564	16.3	0.439
11/07/2017 13:36	37.696	16.3	0.439
11/07/2017 13:36	37.708	16.3	0.439
11/07/2017 13:36	37.714	16.3	0.439
11/07/2017 13:36	37.732	16.3	0.439
11/07/2017 13:36	37.876	16.3	0.439
11/07/2017 13:36	37.888	16.3	0.439
11/07/2017 13:36	37.888	16.3	0.439
11/07/2017 13:37	37.936	16.3	0.439
11/07/2017 13:37	38.086	16.3	0.439
11/07/2017 13:37	38.092	16.3	0.439
11/07/2017 13:37	38.092	16.3	0.439
11/07/2017 13:37	38.128	16.3	0.439
11/07/2017 13:37	38.284	16.3	0.439
11/07/2017 13:37	38.284	16.3	0.439
11/07/2017 13:37	38.284	16.3	0.439
11/07/2017 13:37	38.320	16.3	0.439
11/07/2017 13:37	38.482	16.3	0.439
11/07/2017 13:37	38.488	16.3	0.439
11/07/2017 13:37	38.476	16.3	0.439
11/07/2017 13:38	38.482	16.3	0.439
11/07/2017 13:38	38.692	16.3	0.439
11/07/2017 13:38	38.686	16.3	0.439
11/07/2017 13:38	38.692	16.3	0.439
11/07/2017 13:38	38.692	16.3	0.439
11/07/2017 13:38	38.872	16.3	0.439
11/07/2017 13:38	38.878	16.3	0.439
11/07/2017 13:38	38.884	16.3	0.439
11/07/2017 13:38	39.004	16.3	0.439
11/07/2017 13:38	39.070	16.3	0.439
11/07/2017 13:38	39.076	16.3	0.439
11/07/2017 13:38	39.070	16.3	0.439
11/07/2017 13:39	39.100	16.3	0.440
11/07/2017 13:39	39.274	16.3	0.449
11/07/2017 13:39	39.280	16.3	0.449
11/07/2017 13:39	39.280	16.3	0.449
11/07/2017 13:39	39.328	16.3	0.450
11/07/2017 13:39	39.346	16.3	0.450
11/07/2017 13:39	39.346	16.3	0.450
11/07/2017 13:39	39.364	16.3	0.450
11/07/2017 13:39	39.352	16.3	0.450
11/07/2017 13:39	39.370	16.3	0.450
11/07/2017 13:39	39.358	16.3	0.450
11/07/2017 13:39	39.358	16.3	0.450
11/07/2017 13:40	39.364	16.3	0.450
11/07/2017 13:40	39.364	16.3	0.450
11/07/2017 13:40	39.364	16.3	0.450
11/07/2017 13:40	39.364	16.3	0.450
11/07/2017 13:40	39.364	16.3	0.450
11/07/2017 13:40	39.376	16.3	0.450
11/07/2017 13:40	39.364	16.3	0.450
11/07/2017 13:40	39.370	16.3	0.450
11/07/2017 13:40	39.376	16.3	0.450
11/07/2017 13:40	39.376	16.3	0.450
11/07/2017 13:40	39.370	16.3	0.451
11/07/2017 13:40	39.364	16.3	0.451
11/07/2017 13:41	39.364	16.3	0.451
11/07/2017 13:41	39.370	16.3	0.451
11/07/2017 13:41	39.370	16.3	0.451
11/07/2017 13:41	39.382	16.3	0.451
11/07/2017 13:41	39.364	16.3	0.451
11/07/2017 13:41	39.376	16.3	0.451
11/07/2017 13:41	39.382	16.3	0.451
11/07/2017 13:41	39.382	16.3	0.450
11/07/2017 13:41	39.382	16.3	0.451
11/07/2017 13:41	39.382	16.3	0.451
11/07/2017 13:41	39.376	16.3	0.451
11/07/2017 13:41	39.376	16.3	0.451
11/07/2017 13:42	39.382	16.3	0.451
11/07/2017 13:42	39.382	16.3	0.451
11/07/2017 13:42	39.376	16.3	0.451
11/07/2017 13:42	39.382	16.3	0.451
11/07/2017 13:42	39.376	16.3	0.451
11/07/2017 13:42	39.376	16.3	0.451
11/07/2017 13:42	39.376	16.3	0.451
11/07/2017 13:42	39.376	16.3	0.451
11/07/2017 13:42	39.370	16.3	0.451
11/07/2017 13:42	39.370	16.3	0.451
11/07/2017 13:42	39.376	16.3	0.451
11/07/2017 13:42	39.376	16.3	0.451
11/07/2017 13:43	39.376	16.3	0.451
11/07/2017 13:43	39.376	16.3	0.451
11/07/2017 13:43	39.382	16.3	0.451
11/07/2017 13:43	39.382	16.3	0.451
11/07/2017 13:43	39.376	16.3	0.451
11/07/2017 13:43	39.382	16.3	0.451
11/07/2017 13:43	39.370	16.3	0.451
11/07/2017 13:43	39.370	16.3	0.451
11/07/2017 13:43	39.376	16.3	0.451
11/07/2017 13:43	39.376	16.3	0.451
11/07/2017 13:43	39.382	16.3	0.451
11/07/2017 13:43	39.394	16.3	0.451
11/07/2017 13:44	39.388	16.3	0.451
11/07/2017 13:44	39.388	16.3	0.451
11/07/2017 13:44	39.394	16.3	0.451
11/07/2017 13:44	39.394	16.3	0.451
11/07/2017 13:44	39.394	16.3	0.451
11/07/2017 13:44	39.400	16.3	0.451
11/07/2017 13:44	39.436	16.3	0.455
11/07/2017 13:44	39.454	16.3	0.455
11/07/2017 13:44	39.466	16.3	0.455
11/07/2017 13:44	39.466	16.3	0.455
11/07/2017 13:44	39.454	16.3	0.456
11/07/2017 13:44	39.460	16.3	0.456

Borehole: ID44-GWBH02
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 4.771
Total Depth (mbgs): 39.46
Screen Interval (mbgs): 35 to 40
***Note:** Well gauged with total depth of 39.46 mbGS. Some sedimentation at the base of the well.

11/07/2017 13:45	39.454	16.3	0.456
11/07/2017 13:45	39.448	16.3	0.456
11/07/2017 13:45	39.460	16.3	0.456
11/07/2017 13:45	39.454	16.3	0.456
11/07/2017 13:45	39.454	16.3	0.456
11/07/2017 13:45	39.448	16.3	0.456
11/07/2017 13:45	39.454	16.3	0.457
11/07/2017 13:45	39.454	16.3	0.457
11/07/2017 13:45	39.454	16.3	0.457
11/07/2017 13:45	39.460	16.3	0.457
11/07/2017 13:45	39.460	16.3	0.457
11/07/2017 13:45	39.460	16.3	0.457
11/07/2017 13:46	39.454	16.3	0.457
11/07/2017 13:46	39.454	16.3	0.457
11/07/2017 13:46	39.460	16.3	0.457
11/07/2017 13:46	39.466	16.3	0.457
11/07/2017 13:46	39.460	16.3	0.458
11/07/2017 13:46	39.454	16.3	0.458
11/07/2017 13:46	39.460	16.3	0.458
11/07/2017 13:46	39.454	16.3	0.458
11/07/2017 13:46	39.460	16.3	0.458
11/07/2017 13:46	39.454	16.3	0.458
11/07/2017 13:46	39.460	16.3	0.458
11/07/2017 13:46	39.466	16.3	0.459
11/07/2017 13:47	39.454	16.3	0.459
11/07/2017 13:47	39.460	16.3	0.459
11/07/2017 13:47	39.460	16.3	0.459
11/07/2017 13:47	39.448	16.3	0.459
11/07/2017 13:47	39.460	16.3	0.459
11/07/2017 13:47	39.454	16.3	0.459
11/07/2017 13:47	39.460	16.3	0.459
11/07/2017 13:47	39.454	16.3	0.459
11/07/2017 13:47	39.466	16.3	0.459
11/07/2017 13:47	39.454	16.3	0.459
11/07/2017 13:47	39.454	16.3	0.459
11/07/2017 13:47	39.466	16.3	0.459

Borehole: ID46-GWBH01
Date: 10/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 5.469
Total Depth (mbgs): 24.69
Screen Interval (mbgs): 35.5 to 38.5
***Note:** Well gauged with total depth of 24.69 mbGS. Well may be compromised.

DateTime	Logger Depth (mbGS)	Water Temperature (°C)	Electrical Conductivity (mS/cm)
10/07/2017 11:25	5.630	16.5	6.140
10/07/2017 11:25	5.630	16.5	6.163
10/07/2017 11:25	5.612	16.6	6.171
10/07/2017 11:25	5.630	16.6	6.142
10/07/2017 11:25	5.624	16.7	6.098
10/07/2017 11:25	5.624	16.7	6.066
10/07/2017 11:25	5.630	16.8	6.042
10/07/2017 11:25	5.636	16.8	6.027
10/07/2017 11:25	5.624	16.9	6.008
10/07/2017 11:25	5.624	16.9	5.988
10/07/2017 11:25	5.570	17.0	6.062
10/07/2017 11:26	5.642	17.0	6.193
10/07/2017 11:26	5.690	17.1	6.467
10/07/2017 11:26	5.696	17.1	6.596
10/07/2017 11:26	5.708	17.2	6.590
10/07/2017 11:26	5.714	17.2	6.574
10/07/2017 11:26	5.702	17.3	6.571
10/07/2017 11:26	5.714	17.3	6.567
10/07/2017 11:26	5.912	17.4	6.882
10/07/2017 11:26	5.936	17.4	6.875
10/07/2017 11:26	5.930	17.5	6.867
10/07/2017 11:26	5.930	17.5	6.866
10/07/2017 11:26	6.116	17.6	6.955
10/07/2017 11:27	6.122	17.6	6.950
10/07/2017 11:27	6.122	17.7	6.947
10/07/2017 11:27	6.128	17.7	6.946
10/07/2017 11:27	6.326	17.8	6.992
10/07/2017 11:27	6.326	17.8	6.996
10/07/2017 11:27	6.332	17.8	6.993
10/07/2017 11:27	6.320	17.9	6.992
10/07/2017 11:27	6.512	17.9	7.001
10/07/2017 11:27	6.458	18.0	7.019
10/07/2017 11:27	6.464	18.0	7.011
10/07/2017 11:27	6.452	18.0	7.011
10/07/2017 11:27	6.650	18.0	7.062
10/07/2017 11:28	6.740	18.1	7.095
10/07/2017 11:28	6.734	18.1	7.091
10/07/2017 11:28	6.734	18.1	7.091
10/07/2017 11:28	6.938	18.2	7.158
10/07/2017 11:28	6.920	18.2	7.150
10/07/2017 11:28	6.926	18.2	7.153
10/07/2017 11:28	6.926	18.2	7.155
10/07/2017 11:28	7.094	18.2	7.204
10/07/2017 11:28	7.136	18.3	7.232
10/07/2017 11:28	7.100	18.3	7.221
10/07/2017 11:28	7.136	18.3	7.236
10/07/2017 11:28	7.388	18.3	7.335
10/07/2017 11:29	7.388	18.3	7.328
10/07/2017 11:29	7.394	18.3	7.325
10/07/2017 11:29	7.382	18.4	7.322
10/07/2017 11:29	7.514	18.4	7.356
10/07/2017 11:29	7.526	18.4	7.362
10/07/2017 11:29	7.538	18.4	7.366
10/07/2017 11:29	7.526	18.4	7.366
10/07/2017 11:29	7.742	18.4	7.412
10/07/2017 11:29	7.724	18.4	7.419
10/07/2017 11:29	7.718	18.4	7.416
10/07/2017 11:29	7.718	18.4	7.418
10/07/2017 11:29	7.928	18.5	7.455
10/07/2017 11:30	7.928	18.5	7.452
10/07/2017 11:30	7.934	18.5	7.450
10/07/2017 11:30	7.940	18.5	7.452
10/07/2017 11:30	8.132	18.5	7.490
10/07/2017 11:30	8.114	18.5	7.492
10/07/2017 11:30	8.132	18.5	7.493
10/07/2017 11:30	8.114	18.5	7.491
10/07/2017 11:30	8.336	18.5	7.524
10/07/2017 11:30	8.354	18.5	7.534
10/07/2017 11:30	8.348	18.5	7.533
10/07/2017 11:30	8.336	18.5	7.531
10/07/2017 11:30	8.534	18.5	7.601
10/07/2017 11:31	8.528	18.5	7.608
10/07/2017 11:31	8.528	18.5	7.610
10/07/2017 11:31	8.540	18.5	7.608
10/07/2017 11:31	8.708	18.5	7.626
10/07/2017 11:31	8.726	18.5	7.622
10/07/2017 11:31	8.726	18.5	7.627
10/07/2017 11:31	8.744	18.5	7.628
10/07/2017 11:31	8.924	18.5	7.653
10/07/2017 11:31	8.942	18.5	7.663
10/07/2017 11:31	8.924	18.5	7.660
10/07/2017 11:31	8.936	18.5	7.663
10/07/2017 11:31	9.140	18.5	7.685
10/07/2017 11:32	9.134	18.5	7.681
10/07/2017 11:32	9.128	18.5	7.684
10/07/2017 11:32	9.128	18.5	7.681
10/07/2017 11:32	9.314	18.5	7.720
10/07/2017 11:32	9.320	18.5	7.721
10/07/2017 11:32	9.326	18.5	7.722
10/07/2017 11:32	9.332	18.5	7.722
10/07/2017 11:32	9.548	18.4	7.734
10/07/2017 11:32	9.530	18.4	7.740
10/07/2017 11:32	9.524	18.4	7.740
10/07/2017 11:32	9.536	18.4	7.749
10/07/2017 11:32	9.716	18.4	7.752
10/07/2017 11:33	9.722	18.4	7.753
10/07/2017 11:33	9.734	18.4	7.755
10/07/2017 11:33	9.740	18.4	7.755
10/07/2017 11:33	9.932	18.4	7.758
10/07/2017 11:33	9.938	18.4	7.762
10/07/2017 11:33	9.938	18.4	7.764
10/07/2017 11:33	9.950	18.4	7.762
10/07/2017 11:33	10.136	18.4	7.757
10/07/2017 11:33	10.130	18.4	7.758
10/07/2017 11:33	10.136	18.4	7.757
10/07/2017 11:33	10.142	18.4	7.758



Borehole: ID46-GWBH01
Date: 10/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 5.469
Total Depth (mbgs): 24.69
Screen Interval (mbgs): 35.5 to 38.5
***Note:** Well gauged with total depth of 24.69 mbGS. Well may be compromised.

10/07/2017 11:33	10.340	18.4	7.759
10/07/2017 11:34	10.334	18.3	7.759
10/07/2017 11:34	10.352	18.3	7.755
10/07/2017 11:34	10.364	18.3	7.758
10/07/2017 11:34	10.538	18.3	7.753
10/07/2017 11:34	10.532	18.3	7.755
10/07/2017 11:34	10.532	18.3	7.755
10/07/2017 11:34	10.520	18.3	7.757
10/07/2017 11:34	10.754	18.3	7.753
10/07/2017 11:34	10.736	18.3	7.753
10/07/2017 11:34	10.736	18.3	7.753
10/07/2017 11:34	10.736	18.3	7.754
10/07/2017 11:34	10.946	18.3	7.752
10/07/2017 11:35	10.934	18.3	7.759
10/07/2017 11:35	10.934	18.2	7.759
10/07/2017 11:35	10.958	18.2	7.762
10/07/2017 11:35	11.144	18.2	7.754
10/07/2017 11:35	11.138	18.2	7.754
10/07/2017 11:35	11.126	18.2	7.759
10/07/2017 11:35	11.126	18.2	7.759
10/07/2017 11:35	11.342	18.2	7.755
10/07/2017 11:35	11.318	18.2	7.771
10/07/2017 11:35	11.336	18.2	7.775
10/07/2017 11:35	11.348	18.2	7.772
10/07/2017 11:35	11.540	18.2	7.754
10/07/2017 11:36	11.540	18.2	7.754
10/07/2017 11:36	11.540	18.2	7.750
10/07/2017 11:36	11.540	18.2	7.753
10/07/2017 11:36	11.750	18.2	7.749
10/07/2017 11:36	11.732	18.1	7.748
10/07/2017 11:36	11.762	18.1	7.752
10/07/2017 11:36	11.756	18.1	7.752
10/07/2017 11:36	11.948	18.1	7.748
10/07/2017 11:36	11.936	18.1	7.746
10/07/2017 11:36	11.942	18.1	7.749
10/07/2017 11:36	11.936	18.1	7.752
10/07/2017 11:36	12.134	18.1	7.744
10/07/2017 11:37	12.140	18.1	7.750
10/07/2017 11:37	12.146	18.1	7.748
10/07/2017 11:37	12.152	18.1	7.748
10/07/2017 11:37	12.350	18.1	7.743
10/07/2017 11:37	12.344	18.1	7.743
10/07/2017 11:37	12.350	18.1	7.740
10/07/2017 11:37	12.338	18.1	7.740
10/07/2017 11:37	12.536	18.1	7.739
10/07/2017 11:37	12.542	18.1	7.737
10/07/2017 11:37	12.548	18.0	7.740
10/07/2017 11:37	12.548	18.0	7.739
10/07/2017 11:37	12.746	18.0	7.737
10/07/2017 11:38	12.722	18.0	7.736
10/07/2017 11:38	12.734	18.0	7.736
10/07/2017 11:38	12.752	18.0	7.740
10/07/2017 11:38	12.938	18.0	7.732
10/07/2017 11:38	12.950	18.0	7.736
10/07/2017 11:38	12.944	18.0	7.736
10/07/2017 11:38	12.944	18.0	7.736
10/07/2017 11:38	13.160	18.0	7.732
10/07/2017 11:38	13.130	18.0	7.732
10/07/2017 11:38	13.136	18.0	7.734
10/07/2017 11:38	13.130	18.0	7.735
10/07/2017 11:38	13.376	18.0	7.732
10/07/2017 11:39	13.364	18.0	7.734
10/07/2017 11:39	13.358	18.0	7.734
10/07/2017 11:39	13.358	18.0	7.732
10/07/2017 11:39	13.538	18.0	7.730
10/07/2017 11:39	13.514	17.9	7.731
10/07/2017 11:39	13.538	17.9	7.732
10/07/2017 11:39	13.550	17.9	7.732
10/07/2017 11:39	13.742	17.9	7.731
10/07/2017 11:39	13.754	17.9	7.730
10/07/2017 11:39	13.748	17.9	7.732
10/07/2017 11:39	13.766	17.9	7.732
10/07/2017 11:39	13.964	17.9	7.730
10/07/2017 11:40	13.988	17.9	7.730
10/07/2017 11:40	14.000	17.9	7.729
10/07/2017 11:40	13.976	17.9	7.729
10/07/2017 11:40	14.156	17.9	7.729
10/07/2017 11:40	14.180	17.9	7.729
10/07/2017 11:40	14.180	17.9	7.727
10/07/2017 11:40	14.180	17.9	7.727
10/07/2017 11:40	14.342	17.9	7.726
10/07/2017 11:40	14.348	17.9	7.727
10/07/2017 11:40	14.348	17.9	7.726
10/07/2017 11:40	14.354	17.9	7.727
10/07/2017 11:40	14.534	17.9	7.726
10/07/2017 11:41	14.558	17.9	7.725
10/07/2017 11:41	14.552	17.9	7.727
10/07/2017 11:41	14.570	17.9	7.726
10/07/2017 11:41	14.756	17.9	7.723
10/07/2017 11:41	14.762	17.9	7.720
10/07/2017 11:41	14.762	17.8	7.721
10/07/2017 11:41	14.774	17.8	7.721
10/07/2017 11:41	14.954	17.8	7.722
10/07/2017 11:41	14.954	17.8	7.722
10/07/2017 11:41	14.960	17.8	7.722
10/07/2017 11:41	14.966	17.8	7.720
10/07/2017 11:41	15.134	17.8	7.720
10/07/2017 11:42	15.158	17.8	7.720
10/07/2017 11:42	15.152	17.8	7.721
10/07/2017 11:42	15.164	17.8	7.720
10/07/2017 11:42	15.338	17.8	7.709
10/07/2017 11:42	15.368	17.8	7.705
10/07/2017 11:42	15.368	17.8	7.707
10/07/2017 11:42	15.356	17.8	7.700
10/07/2017 11:42	15.548	17.8	7.693
10/07/2017 11:42	15.560	17.8	7.691
10/07/2017 11:42	15.554	17.8	7.689
10/07/2017 11:42	15.554	17.8	7.693
10/07/2017 11:42	15.758	17.8	7.695

Borehole: ID46-GWBH01
Date: 10/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 5.469
Total Depth (mbgs): 24.69
Screen Interval (mbgs): 35.5 to 38.5
***Note:** Well gauged with total depth of 24.69 mbGS. Well may be compromised.

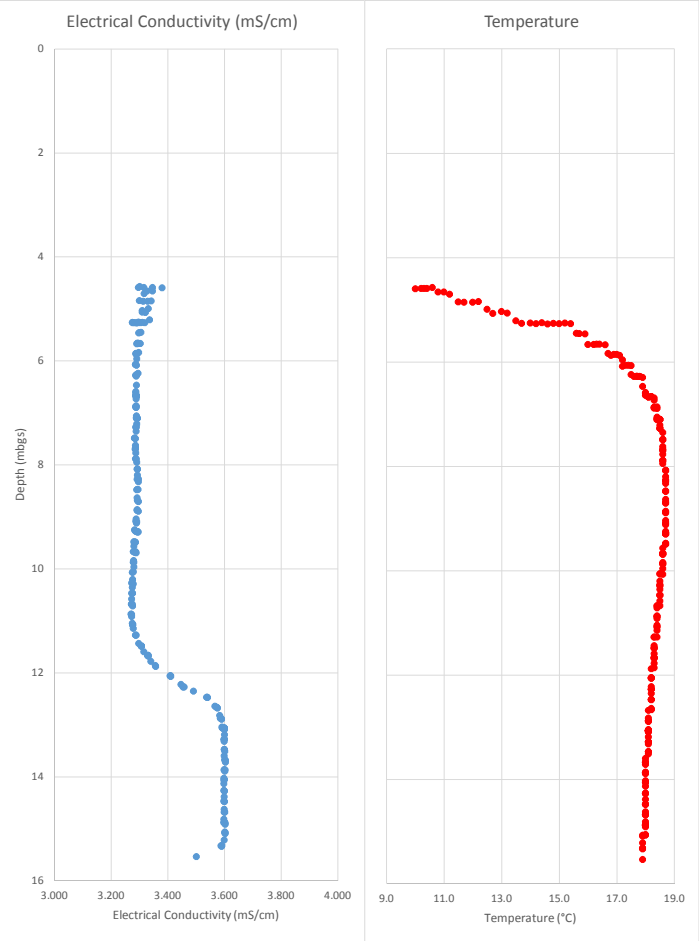
10/07/2017 11:43	15.764	17.8	7.695
10/07/2017 11:43	15.758	17.8	7.699
10/07/2017 11:43	15.770	17.8	7.698
10/07/2017 11:43	15.950	17.8	7.713
10/07/2017 11:43	15.956	17.8	7.714
10/07/2017 11:43	15.950	17.8	7.714
10/07/2017 11:43	15.974	17.8	7.716
10/07/2017 11:43	16.130	17.8	7.718
10/07/2017 11:43	16.178	17.8	7.718
10/07/2017 11:43	16.190	17.8	7.717
10/07/2017 11:43	16.196	17.8	7.718
10/07/2017 11:43	16.358	17.8	7.717
10/07/2017 11:44	16.376	17.8	7.717
10/07/2017 11:44	16.376	17.7	7.716
10/07/2017 11:44	16.382	17.7	7.717
10/07/2017 11:44	16.532	17.7	7.717
10/07/2017 11:44	16.562	17.7	7.714
10/07/2017 11:44	16.562	17.7	7.717
10/07/2017 11:44	16.568	17.7	7.717
10/07/2017 11:44	16.634	17.7	7.713
10/07/2017 11:44	16.766	17.7	7.717
10/07/2017 11:44	16.754	17.7	7.713
10/07/2017 11:44	16.754	17.7	7.713
10/07/2017 11:44	16.868	17.7	7.716
10/07/2017 11:45	16.952	17.7	7.714
10/07/2017 11:45	16.952	17.7	7.713
10/07/2017 11:45	16.952	17.7	7.716
10/07/2017 11:45	17.042	17.7	7.716
10/07/2017 11:45	17.156	17.7	7.714
10/07/2017 11:45	17.162	17.7	7.714
10/07/2017 11:45	17.162	17.7	7.716
10/07/2017 11:45	17.258	17.7	7.714
10/07/2017 11:45	17.366	17.7	7.713
10/07/2017 11:45	17.354	17.7	7.714
10/07/2017 11:45	17.378	17.7	7.713
10/07/2017 11:45	17.480	17.7	7.714
10/07/2017 11:46	17.552	17.7	7.713
10/07/2017 11:46	17.558	17.7	7.711
10/07/2017 11:46	17.552	17.7	7.713
10/07/2017 11:46	17.642	17.7	7.709
10/07/2017 11:46	17.762	17.7	7.712
10/07/2017 11:46	17.768	17.7	7.709
10/07/2017 11:46	17.756	17.7	7.711
10/07/2017 11:46	17.852	17.7	7.708
10/07/2017 11:46	17.960	17.7	7.708
10/07/2017 11:46	17.966	17.7	7.707
10/07/2017 11:46	17.972	17.7	7.705
10/07/2017 11:46	18.038	17.7	7.708
10/07/2017 11:47	18.158	17.7	7.705
10/07/2017 11:47	18.158	17.7	7.704
10/07/2017 11:47	18.152	17.7	7.704
10/07/2017 11:47	18.272	17.7	7.707
10/07/2017 11:47	18.356	17.7	7.705
10/07/2017 11:47	18.380	17.7	7.704
10/07/2017 11:47	18.374	17.7	7.707
10/07/2017 11:47	18.464	17.7	7.704
10/07/2017 11:47	18.536	17.7	7.705
10/07/2017 11:47	18.548	17.7	7.704
10/07/2017 11:47	18.548	17.7	7.705
10/07/2017 11:47	18.644	17.7	7.703
10/07/2017 11:48	18.734	17.7	7.703
10/07/2017 11:48	18.752	17.6	7.703
10/07/2017 11:48	18.728	17.7	7.703
10/07/2017 11:48	18.938	17.7	7.700
10/07/2017 11:48	18.944	17.7	7.703
10/07/2017 11:48	18.956	17.6	7.700
10/07/2017 11:48	18.926	17.6	7.699
10/07/2017 11:48	18.962	17.6	7.698
10/07/2017 11:48	19.100	17.6	7.700
10/07/2017 11:48	19.118	17.6	7.700
10/07/2017 11:48	19.118	17.6	7.700
10/07/2017 11:48	19.298	17.6	7.696
10/07/2017 11:49	19.346	17.6	7.699
10/07/2017 11:49	19.370	17.6	7.700
10/07/2017 11:49	19.352	17.6	7.699
10/07/2017 11:49	19.430	17.6	7.699
10/07/2017 11:49	19.532	17.6	7.699
10/07/2017 11:49	19.556	17.6	7.699
10/07/2017 11:49	19.538	17.6	7.700
10/07/2017 11:49	19.682	17.6	7.696
10/07/2017 11:49	19.754	17.6	7.698
10/07/2017 11:49	19.748	17.6	7.696
10/07/2017 11:49	19.742	17.6	7.699
10/07/2017 11:49	19.880	17.6	7.699
10/07/2017 11:50	19.958	17.6	7.693
10/07/2017 11:50	19.958	17.6	7.696
10/07/2017 11:50	19.952	17.6	7.696
10/07/2017 11:50	20.066	17.6	7.696
10/07/2017 11:50	20.144	17.6	7.694
10/07/2017 11:50	20.150	17.6	7.696
10/07/2017 11:50	20.156	17.6	7.696
10/07/2017 11:50	20.300	17.6	7.693
10/07/2017 11:50	20.348	17.6	7.694
10/07/2017 11:50	20.360	17.6	7.695
10/07/2017 11:50	20.354	17.6	7.694
10/07/2017 11:50	20.456	17.6	7.693
10/07/2017 11:51	20.546	17.6	7.694
10/07/2017 11:51	20.546	17.6	7.694
10/07/2017 11:51	20.558	17.6	7.693
10/07/2017 11:51	20.708	17.6	7.691
10/07/2017 11:51	20.762	17.6	7.689
10/07/2017 11:51	20.774	17.6	7.690
10/07/2017 11:51	20.762	17.6	7.690
10/07/2017 11:51	20.864	17.6	7.690
10/07/2017 11:51	20.960	17.6	7.689
10/07/2017 11:51	20.966	17.6	7.689
10/07/2017 11:51	20.954	17.6	7.689
10/07/2017 11:51	21.068	17.6	7.689
10/07/2017 11:52	21.152	17.6	7.689

Borehole: ID46-GWBH01
Date: 10/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 5.469
Total Depth (mbgs): 24.69
Screen Interval (mbgs): 35.5 to 38.5
***Note:** Well gauged with total depth of 24.69 mbGS. Well may be compromised.

10/07/2017 11:52	21.152	17.6	7.690
10/07/2017 11:52	21.146	17.6	7.685
10/07/2017 11:52	21.260	17.6	7.685
10/07/2017 11:52	21.344	17.6	7.689
10/07/2017 11:52	21.326	17.6	7.690
10/07/2017 11:52	21.320	17.6	7.689
10/07/2017 11:52	21.518	17.6	7.687
10/07/2017 11:52	21.554	17.5	7.687
10/07/2017 11:52	21.542	17.5	7.690
10/07/2017 11:52	21.548	17.5	7.687
10/07/2017 11:52	21.704	17.5	7.687
10/07/2017 11:53	21.758	17.5	7.684
10/07/2017 11:53	21.752	17.5	7.687
10/07/2017 11:53	21.746	17.5	7.687
10/07/2017 11:53	21.890	17.5	7.685
10/07/2017 11:53	21.956	17.5	7.684
10/07/2017 11:53	21.944	17.5	7.685
10/07/2017 11:53	21.956	17.5	7.686
10/07/2017 11:53	22.100	17.5	7.686
10/07/2017 11:53	22.124	17.5	7.685
10/07/2017 11:53	22.130	17.5	7.684
10/07/2017 11:53	22.136	17.5	7.686
10/07/2017 11:53	22.394	17.5	7.685
10/07/2017 11:54	22.322	17.5	7.686
10/07/2017 11:54	22.382	17.5	7.682
10/07/2017 11:54	22.412	17.5	7.684
10/07/2017 11:54	22.526	17.5	7.686
10/07/2017 11:54	22.538	17.5	7.684
10/07/2017 11:54	22.538	17.5	7.684
10/07/2017 11:54	22.526	17.5	7.681
10/07/2017 11:54	22.724	17.5	7.684
10/07/2017 11:54	22.736	17.5	7.684
10/07/2017 11:54	22.748	17.5	7.684
10/07/2017 11:54	22.748	17.5	7.684
10/07/2017 11:54	22.958	17.5	7.680
10/07/2017 11:55	22.958	17.5	7.684
10/07/2017 11:55	22.958	17.5	7.684
10/07/2017 11:55	22.958	17.5	7.682
10/07/2017 11:55	23.120	17.5	7.684
10/07/2017 11:55	23.156	17.5	7.684
10/07/2017 11:55	23.168	17.5	7.682
10/07/2017 11:55	23.162	17.5	7.680
10/07/2017 11:55	23.312	17.5	7.681
10/07/2017 11:55	23.348	17.5	7.680
10/07/2017 11:55	23.348	17.5	7.681
10/07/2017 11:55	23.360	17.5	7.682
10/07/2017 11:55	23.492	17.5	7.681
10/07/2017 11:56	23.558	17.5	7.678
10/07/2017 11:56	23.564	17.5	7.681
10/07/2017 11:56	23.564	17.5	7.684
10/07/2017 11:56	23.708	17.5	7.680
10/07/2017 11:56	23.774	17.5	7.682
10/07/2017 11:56	23.780	17.5	7.681
10/07/2017 11:56	23.780	17.5	7.684
10/07/2017 11:56	23.942	17.5	7.680
10/07/2017 11:56	23.960	17.5	7.678
10/07/2017 11:56	23.978	17.5	7.684
10/07/2017 11:56	23.972	17.5	7.680
10/07/2017 11:56	24.092	17.5	7.680
10/07/2017 11:57	24.176	17.5	7.681
10/07/2017 11:57	24.158	17.5	7.680
10/07/2017 11:57	24.176	17.5	7.681
10/07/2017 11:57	24.290	17.5	7.681
10/07/2017 11:57	24.356	17.5	7.682
10/07/2017 11:57	24.356	17.5	7.680
10/07/2017 11:57	24.368	17.4	7.681
10/07/2017 11:57	24.494	17.5	7.681
10/07/2017 11:57	24.560	17.4	7.678
10/07/2017 11:57	24.572	17.4	7.677
10/07/2017 11:57	24.566	17.4	7.680
10/07/2017 11:57	24.692	17.4	7.671

Borehole: SS-GWBH02
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 4.49
Total Depth (mbgs): 15.54
Screen Interval (mbgs): 13 to 16
***Note:** Well gauged with total depth of 15.54 mbGS. Some sedimentation at the base of the well.

DateTime	Logger Depth (mbGS)	Water Temperature (°C)	Electrical Conductivity (mS/cm)
11/07/2017 9:45	4.600	10.0	3.380
11/07/2017 9:45	4.594	10.2	3.346
11/07/2017 9:45	4.594	10.3	3.316
11/07/2017 9:45	4.594	10.4	3.296
11/07/2017 9:45	4.576	10.6	3.301
11/07/2017 9:45	4.660	10.8	3.346
11/07/2017 9:45	4.660	11.0	3.327
11/07/2017 9:45	4.708	11.2	3.317
11/07/2017 9:46	4.852	11.5	3.342
11/07/2017 9:46	4.858	11.7	3.329
11/07/2017 9:46	4.858	12.0	3.313
11/07/2017 9:46	4.846	12.2	3.300
11/07/2017 9:46	4.996	12.5	3.331
11/07/2017 9:46	5.074	12.7	3.321
11/07/2017 9:46	5.038	13.0	3.310
11/07/2017 9:46	5.068	13.2	3.310
11/07/2017 9:46	5.212	13.5	3.336
11/07/2017 9:46	5.266	13.7	3.319
11/07/2017 9:46	5.260	14.0	3.310
11/07/2017 9:46	5.272	14.2	3.303
11/07/2017 9:47	5.254	14.4	3.296
11/07/2017 9:47	5.278	14.6	3.291
11/07/2017 9:47	5.266	14.8	3.285
11/07/2017 9:47	5.272	15.0	3.280
11/07/2017 9:47	5.260	15.2	3.275
11/07/2017 9:47	5.272	15.4	3.276
11/07/2017 9:47	5.452	15.6	3.305
11/07/2017 9:47	5.458	15.7	3.300
11/07/2017 9:47	5.464	15.9	3.297
11/07/2017 9:47	5.668	16.0	3.303
11/07/2017 9:47	5.668	16.2	3.297
11/07/2017 9:47	5.662	16.3	3.295
11/07/2017 9:48	5.662	16.4	3.292
11/07/2017 9:48	5.674	16.6	3.291
11/07/2017 9:48	5.842	16.7	3.297
11/07/2017 9:48	5.878	16.8	3.291
11/07/2017 9:48	5.860	16.9	3.288
11/07/2017 9:48	5.860	17.0	3.287
11/07/2017 9:48	5.878	17.1	3.288
11/07/2017 9:48	5.962	17.2	3.291
11/07/2017 9:48	6.088	17.2	3.290
11/07/2017 9:48	6.070	17.3	3.287
11/07/2017 9:48	6.070	17.4	3.286
11/07/2017 9:48	6.076	17.5	3.286
11/07/2017 9:49	6.244	17.5	3.295
11/07/2017 9:49	6.280	17.6	3.290
11/07/2017 9:49	6.274	17.7	3.288
11/07/2017 9:49	6.280	17.7	3.287
11/07/2017 9:49	6.280	17.8	3.288
11/07/2017 9:49	6.280	17.8	3.288
11/07/2017 9:49	6.298	17.9	3.288
11/07/2017 9:49	6.472	17.9	3.290
11/07/2017 9:49	6.592	18.0	3.287
11/07/2017 9:49	6.610	18.0	3.287
11/07/2017 9:49	6.646	18.0	3.287
11/07/2017 9:49	6.676	18.1	3.288
11/07/2017 9:50	6.676	18.1	3.287
11/07/2017 9:50	6.676	18.1	3.288
11/07/2017 9:50	6.670	18.2	3.288
11/07/2017 9:50	6.670	18.2	3.288
11/07/2017 9:50	6.670	18.2	3.290
11/07/2017 9:50	6.694	18.3	3.290
11/07/2017 9:50	6.736	18.3	3.288
11/07/2017 9:50	6.874	18.3	3.288
11/07/2017 9:50	6.874	18.3	3.287
11/07/2017 9:50	6.892	18.3	3.287
11/07/2017 9:50	6.868	18.4	3.288
11/07/2017 9:50	6.898	18.4	3.288
11/07/2017 9:51	7.060	18.4	3.290
11/07/2017 9:51	7.096	18.4	3.290
11/07/2017 9:51	7.090	18.4	3.290
11/07/2017 9:51	7.108	18.4	3.290
11/07/2017 9:51	7.102	18.5	3.291
11/07/2017 9:51	7.102	18.5	3.291
11/07/2017 9:51	7.102	18.5	3.293
11/07/2017 9:51	7.108	18.5	3.293
11/07/2017 9:51	7.216	18.5	3.291
11/07/2017 9:51	7.276	18.5	3.287
11/07/2017 9:51	7.276	18.5	3.288
11/07/2017 9:51	7.276	18.5	3.288
11/07/2017 9:52	7.354	18.6	3.288
11/07/2017 9:52	7.486	18.6	3.283
11/07/2017 9:52	7.492	18.6	3.283
11/07/2017 9:52	7.498	18.6	3.286
11/07/2017 9:52	7.624	18.6	3.286
11/07/2017 9:52	7.702	18.6	3.285
11/07/2017 9:52	7.696	18.6	3.286
11/07/2017 9:52	7.678	18.6	3.286
11/07/2017 9:52	7.774	18.6	3.287
11/07/2017 9:52	7.888	18.6	3.286
11/07/2017 9:52	7.894	18.6	3.288
11/07/2017 9:52	7.888	18.6	3.288
11/07/2017 9:53	7.954	18.6	3.291
11/07/2017 9:53	8.080	18.7	3.292
11/07/2017 9:53	8.080	18.7	3.293
11/07/2017 9:53	8.086	18.7	3.293
11/07/2017 9:53	8.200	18.7	3.293
11/07/2017 9:53	8.278	18.7	3.292
11/07/2017 9:53	8.284	18.7	3.295
11/07/2017 9:53	8.272	18.7	3.296
11/07/2017 9:53	8.332	18.7	3.296
11/07/2017 9:53	8.482	18.7	3.291
11/07/2017 9:53	8.476	18.7	3.292
11/07/2017 9:53	8.476	18.7	3.295
11/07/2017 9:54	8.638	18.7	3.292
11/07/2017 9:54	8.686	18.7	3.293



Borehole: SS-GWBH02
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 4.49
Total Depth (mbgs): 15.54
Screen Interval (mbgs): 13 to 16
***Note:** Well gauged with total depth of 15.54 mbGS. Some sedimentation at the base of the well.

11/07/2017 9:54	8.698	18.7	3.295
11/07/2017 9:54	8.710	18.7	3.296
11/07/2017 9:54	8.866	18.7	3.292
11/07/2017 9:54	8.878	18.7	3.292
11/07/2017 9:54	8.884	18.7	3.293
11/07/2017 9:54	8.896	18.7	3.296
11/07/2017 9:54	9.046	18.7	3.288
11/07/2017 9:54	9.088	18.7	3.287
11/07/2017 9:54	9.124	18.7	3.290
11/07/2017 9:54	9.100	18.7	3.291
11/07/2017 9:55	9.250	18.7	3.283
11/07/2017 9:55	9.274	18.7	3.285
11/07/2017 9:55	9.286	18.7	3.287
11/07/2017 9:55	9.286	18.7	3.290
11/07/2017 9:55	9.292	18.7	3.292
11/07/2017 9:55	9.298	18.7	3.293
11/07/2017 9:55	9.292	18.7	3.295
11/07/2017 9:55	9.298	18.7	3.295
11/07/2017 9:55	9.478	18.7	3.281
11/07/2017 9:55	9.496	18.7	3.282
11/07/2017 9:55	9.484	18.7	3.285
11/07/2017 9:55	9.490	18.7	3.286
11/07/2017 9:56	9.568	18.6	3.281
11/07/2017 9:56	9.670	18.6	3.278
11/07/2017 9:56	9.676	18.6	3.281
11/07/2017 9:56	9.682	18.6	3.283
11/07/2017 9:56	9.676	18.6	3.285
11/07/2017 9:56	9.682	18.6	3.286
11/07/2017 9:56	9.676	18.6	3.287
11/07/2017 9:56	9.694	18.6	3.288
11/07/2017 9:56	9.844	18.6	3.280
11/07/2017 9:56	9.874	18.6	3.278
11/07/2017 9:56	9.874	18.6	3.280
11/07/2017 9:56	9.874	18.6	3.281
11/07/2017 9:57	9.964	18.6	3.281
11/07/2017 9:57	10.072	18.6	3.275
11/07/2017 9:57	10.066	18.5	3.277
11/07/2017 9:57	10.060	18.5	3.278
11/07/2017 9:57	10.204	18.5	3.276
11/07/2017 9:57	10.276	18.5	3.273
11/07/2017 9:57	10.282	18.5	3.276
11/07/2017 9:57	10.294	18.5	3.278
11/07/2017 9:57	10.360	18.5	3.275
11/07/2017 9:57	10.474	18.5	3.273
11/07/2017 9:57	10.474	18.5	3.275
11/07/2017 9:57	10.474	18.5	3.276
11/07/2017 9:58	10.582	18.5	3.273
11/07/2017 9:58	10.678	18.5	3.271
11/07/2017 9:58	10.684	18.4	3.273
11/07/2017 9:58	10.678	18.4	3.275
11/07/2017 9:58	10.720	18.4	3.276
11/07/2017 9:58	10.870	18.4	3.270
11/07/2017 9:58	10.876	18.4	3.272
11/07/2017 9:58	10.882	18.4	3.273
11/07/2017 9:58	10.918	18.4	3.273
11/07/2017 9:58	11.050	18.4	3.275
11/07/2017 9:58	11.086	18.4	3.276
11/07/2017 9:58	11.074	18.4	3.277
11/07/2017 9:59	11.146	18.4	3.278
11/07/2017 9:59	11.278	18.4	3.286
11/07/2017 9:59	11.278	18.3	3.287
11/07/2017 9:59	11.278	18.3	3.288
11/07/2017 9:59	11.440	18.3	3.297
11/07/2017 9:59	11.494	18.3	3.307
11/07/2017 9:59	11.488	18.3	3.308
11/07/2017 9:59	11.488	18.3	3.308
11/07/2017 9:59	11.596	18.3	3.316
11/07/2017 9:59	11.674	18.3	3.329
11/07/2017 9:59	11.668	18.3	3.329
11/07/2017 9:59	11.668	18.3	3.331
11/07/2017 10:00	11.686	18.3	3.332
11/07/2017 10:00	11.782	18.3	3.341
11/07/2017 10:00	11.866	18.3	3.356
11/07/2017 10:00	11.884	18.2	3.357
11/07/2017 10:00	12.058	18.2	3.408
11/07/2017 10:00	12.064	18.2	3.409
11/07/2017 10:00	12.058	18.2	3.410
11/07/2017 10:00	12.070	18.2	3.411
11/07/2017 10:00	12.226	18.2	3.447
11/07/2017 10:00	12.274	18.2	3.455
11/07/2017 10:00	12.274	18.2	3.455
11/07/2017 10:00	12.274	18.2	3.458
11/07/2017 10:01	12.358	18.2	3.491
11/07/2017 10:01	12.472	18.2	3.537
11/07/2017 10:01	12.472	18.2	3.539
11/07/2017 10:01	12.478	18.2	3.540
11/07/2017 10:01	12.646	18.2	3.566
11/07/2017 10:01	12.664	18.2	3.571
11/07/2017 10:01	12.670	18.2	3.574
11/07/2017 10:01	12.682	18.1	3.575
11/07/2017 10:01	12.826	18.1	3.584
11/07/2017 10:01	12.880	18.1	3.586
11/07/2017 10:01	12.880	18.1	3.589
11/07/2017 10:01	12.898	18.1	3.590
11/07/2017 10:02	13.048	18.1	3.591
11/07/2017 10:02	13.066	18.1	3.593
11/07/2017 10:02	13.060	18.1	3.594
11/07/2017 10:02	13.072	18.1	3.596
11/07/2017 10:02	13.072	18.1	3.596
11/07/2017 10:02	13.072	18.1	3.596
11/07/2017 10:02	13.066	18.1	3.598
11/07/2017 10:02	13.066	18.1	3.599
11/07/2017 10:02	13.072	18.1	3.600
11/07/2017 10:02	13.066	18.1	3.600
11/07/2017 10:02	13.078	18.1	3.600
11/07/2017 10:02	13.096	18.1	3.600
11/07/2017 10:03	13.192	18.1	3.600
11/07/2017 10:03	13.288	18.1	3.598
11/07/2017 10:03	13.282	18.1	3.599

Borehole: SS-GWBH02
Date: 11/07/2017
Logger ID: 1070510
Initial SWL (mbgs): 4.49
Total Depth (mbgs): 15.54
Screen Interval (mbgs): 13 to 16
***Note:** Well gauged with total depth of 15.54 mbGS. Some sedimentation at the base of the well.

11/07/2017 10:03	13.282	18.1	3.600
11/07/2017 10:03	13.324	18.1	3.599
11/07/2017 10:03	13.474	18.1	3.599
11/07/2017 10:03	13.474	18.1	3.600
11/07/2017 10:03	13.516	18.1	3.601
11/07/2017 10:03	13.600	18.0	3.599
11/07/2017 10:03	13.678	18.0	3.601
11/07/2017 10:03	13.672	18.0	3.601
11/07/2017 10:03	13.684	18.0	3.604
11/07/2017 10:04	13.720	18.0	3.604
11/07/2017 10:04	13.864	18.0	3.599
11/07/2017 10:04	13.876	18.0	3.599
11/07/2017 10:04	13.894	18.0	3.601
11/07/2017 10:04	13.870	18.0	3.603
11/07/2017 10:04	14.032	18.0	3.598
11/07/2017 10:04	14.068	18.0	3.598
11/07/2017 10:04	14.056	18.0	3.600
11/07/2017 10:04	14.134	18.0	3.598
11/07/2017 10:04	14.266	18.0	3.598
11/07/2017 10:04	14.278	18.0	3.599
11/07/2017 10:04	14.278	18.0	3.600
11/07/2017 10:05	14.386	18.0	3.599
11/07/2017 10:05	14.470	18.0	3.598
11/07/2017 10:05	14.482	18.0	3.599
11/07/2017 10:05	14.482	18.0	3.600
11/07/2017 10:05	14.626	18.0	3.599
11/07/2017 10:05	14.686	18.0	3.599
11/07/2017 10:05	14.674	18.0	3.600
11/07/2017 10:05	14.680	18.0	3.601
11/07/2017 10:05	14.818	18.0	3.598
11/07/2017 10:05	14.884	18.0	3.598
11/07/2017 10:05	14.866	18.0	3.599
11/07/2017 10:05	14.878	18.0	3.599
11/07/2017 10:06	14.872	18.0	3.600
11/07/2017 10:06	14.890	18.0	3.601
11/07/2017 10:06	14.890	18.0	3.603
11/07/2017 10:06	14.914	18.0	3.603
11/07/2017 10:06	15.064	18.0	3.601
11/07/2017 10:06	15.076	17.9	3.601
11/07/2017 10:06	15.094	17.9	3.603
11/07/2017 10:06	15.076	18.0	3.603
11/07/2017 10:06	15.220	17.9	3.599
11/07/2017 10:06	15.340	17.9	3.590
11/07/2017 10:06	15.322	17.9	3.591
11/07/2017 10:06	15.328	17.9	3.588
11/07/2017 10:07	15.538	17.9	3.501

Appendix G – Hydraulic Conductivity Tables and Recovery Curves

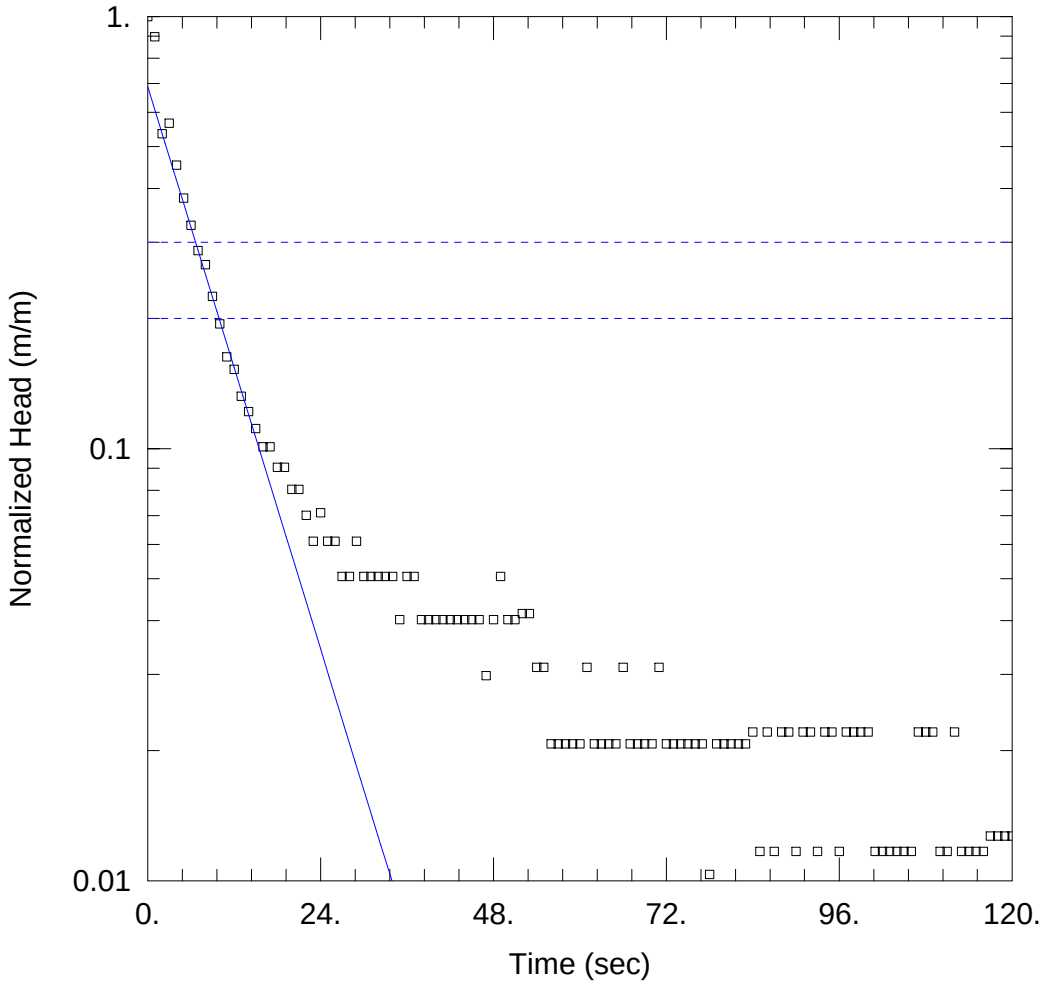
Appendix G - Hydraulic Conductivity Results
Table 1 - Results Summary

Location Information					Estimated Hydraulic Conductivity, K (m/day)									
Monitoring Zone	Aquifer / Aquitard Unit	Well ID	Scrren Interval Top - Base (mbgs)	Initial Standing Water Level (mbgs)	Falling-Head Test 01 Bouwer-Rice (1976)	Falling-Head Test 01 Hvorslev (1951)	Falling-Head Test 02 Bouwer-Rice (1976)	Falling-Head Test 02 Hvorslev (1951)	Rising-Head Test 01 Bouwer-Rice (1976)	Rising-Head Test 01 Hvorslev (1951)	Rising-Head Test 02 Bouwer-Rice (1976)	Rising-Head Test 02 Hvorslev (1951)	Geometric Mean Bouwer-Rice	Geometric Mean Hvorslev
Cheltenham (ID13)	QA	ID13-GWBH07	5 to 8	5.813	SWL>TOS	SWL>TOS	SWL>TOS	SWL>TOS	60.91	90.57	48.78	72.50	**54.51**	**81.03**
	UTAF	ID13-GWBH05	13.5 to 16.5	14.715	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	0.20	0.32	0.13	0.18	**0.05**	**0.04**
		ID13-GWBH08	11 to 14	5.848	0.01	0.00	0.01	0.01	*UMC / PDQ*	*UMC / PDQ*	0.13	0.13		
	UMTD	ID13-GWBH06	26.5 to 30	14.780	0.02	0.02	0.14	0.16	*UMC / PDQ*	*UMC / PDQ*	0.14	0.17	**0.07**	**0.09**
Mentone (ID03)	QA	ID03-GWBH07	8 to 11	6.512	1.49	2.08	1.14	1.58	1.26	1.57	1.23	1.72	**1.27**	**1.72**
	UTAF	ID03-GWBH05	12 to 15	5.407	0.23	0.29	0.22	0.27	0.14	0.18	0.19	0.22	**1.04**	**1.30**
		ID03-GWBH08	12 to 15	6.187	7.04	8.94	5.06	6.43	5.30	6.72	5.50	6.75		
	UMTD	ID03-GWBH06	26.5 to 30	6.387	0.01	0.02	0.01	0.01	0.01	0.01	*UMC / PDQ*	*UMC / PDQ*	**0.01**	**0.01**
Edithvale (ID18)	QA	ID18-GWBH01	5 to 8	3.891	UMC	UMC	70.08	99.73	61.66	87.74	70.08	99.73	**45.00**	**62.75**
		ID18-GWBH03	3 to 6	5.216	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*		
		ID18-GWBH04	2.5 to 5.5	0.928	38.54	53.50	30.08	39.84	33.96	47.13	31.35	43.69		
	UMTAF + UMTD	ID18-GWBH02 Salinity Observation well	21 to 28	3.080	0.39	0.47	0.61	0.43	0.39	0.47	0.40	0.49	**0.44**	**0.46**
	UMTD	ID18-GWBH05	11 to 14	1.088	1.72	2.08	1.51	1.70	1.27	1.29	1.79	1.83	**1.56**	**1.70**
Bonbeach (ID46)	QA	ID46-GWBH02	5 to 8	4.121	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	**48.31**	**69.02**
		ID46-GWBH04	6 to 9	4.848	29.15	46.04	29.75	42.06	45.14	63.86	44.43	62.87		
		ID46-GWBH05	3 to 6	1.476	57.92	80.85	UMC	UMC	75.20	105.00	81.04	113.10		
	UTAF	ID46-GWBH03	12.5 to 15.5	2.912	0.10	0.12	0.04	0.05	0.05	0.06	0.06	0.07	**0.04**	**0.04**
		ID46-GWBH06	17.2 to 20.7	2.029	0.04	0.04	*UMC / PDQ*	*UMC / PDQ*	0.01	0.01	*UMC / PDQ*	*UMC / PDQ*		
	UMTD	ID46-GWBH01	35.5 to 40	6.115	0.00	0.00	0.00	0.00	UMC/PDQ	UMC/PDQ	0.00	0.00	**0.00**	**0.00**
Armstrongs Rd, Seaford (AR / IDFP1)	QA	AR-GWBH01	4.5 to 7.5	4.253	17.63	26.64	16.25	23.53	21.20	29.13	22.78	31.09	**6.28**	**8.58**
		AR-GWBH02	7 to 10	1.767	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*		
		AR-GWBH05	4.5 to 7.5	0.510	2.09	2.73	1.85	2.43	2.09	2.73	2.18	2.85		
	UTAF	AR-GWBH03	16 to 20	2.335	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	**0.16**	**0.20**
		AR-GWBH06	14.5 to 18.5	1.740	0.16	0.19	0.17	0.21	UMC	UMC	UMC	UMC		
	UMTD	AR-GWBH04	22 to 26	2.659	0.11	0.13	0.11	0.13	0.10	0.12	0.11	0.13	**0.11**	**0.13**
Station St, Seaford (SS / IDFP2)	QA	SS-GWBH01	3 to 6	4.292	SWL>TOS	SWL>TOS	SWL>TOS	SWL>TOS	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	**0.45**	**0.57**
		SS-GWBH03	7 to 10	4.124	1.38	1.85	1.46	1.97	1.39	1.86	1.41	1.88		
		SS-GWBH04	2.5 to 4.5	1.061	0.21	0.25	0.14	0.19	0.12	0.14	0.11	0.14		
	UTAF	SS-GWBH02	13 to 16	4.891	0.05	0.06	*UMC / PDQ*	*UMC / PDQ*	0.04	0.06	*UMC / PDQ*	*UMC / PDQ*	**0.29**	**0.35**
		SS-GWBH05	11.5 to 15	0.636	0.80	0.96	0.74	0.90	0.61	0.74	0.72	0.87		
Seaford Road, Seaford (ID43)	QA	ID43-GWBH03	12 to 15	2.587	8.47	10.30	8.25	10.04	11.49	13.98	11.94	14.52	**5.06**	**6.59**
		ID43-GWBH04	3 to 6	1.482	3.16	4.41	4.47	6.24	2.29	3.20	1.38	1.93		
	UTAF	ID43-GWBH01	11.5 to 15	2.582	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	**0.03**	**0.03**
		ID43-GWBH05	15 to 18.5	1.274	0.03	0.04	*UMC / PDQ*	*UMC / PDQ*	0.03	0.03	*UMC / PDQ*	*UMC / PDQ*		
	UMTD	ID43-GWBH02	21 to 25	1.482	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	*UMC / PDQ*	-	-
Frankston North (ID44)	QA	ID44-GWBH01	2.5 to 5.5	4.405	SWL>TOS	SWL>TOS	SWL>TOS	SWL>TOS	11.89	14.76	17.36	19.61	**14.37**	**17.01**
	LTA	ID44-GWBH02	35 to 40.5	5.298	13.75	15.63	19.96	24.27	25.58	29.10	18.30	18.70	**18.93**	**21.32**

QA - Quaternary Aquifer
UTAF - Upper Tertiary Aquifer
UMTD - Upper Mid-Tertiary Aquitard
LTA - Lower Tertiary Aquifer
SWL>TOS - Standing water level below Top of Screen. Does not satisfy assessment criteria for Falling-head test. Therefore not analysed.
UMC/PDQ - Unable to Match Curve or Poor Data Quality and or excessive noise in data.

Assumptions:

Vertical to horizontal hydraulic conductivity anisotropy ratio (Kz/Kr) = 0.2
Applied correction for effective casing radius applied. n(e) = 0.3
Due to rapid recovery in many wells, Initial displacement taken from logger data, not manual gauging data.



FALLING-HEAD 01

Data Set: \...\AR-GWBH01_FH01_BR.aqt
Date: 05/22/17 Time: 12:23:49

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH01
Test Date: 18.04.17

AQUIFER DATA

Saturated Thickness: 8.247 m Anisotropy Ratio (Kz/Kr): 0.2

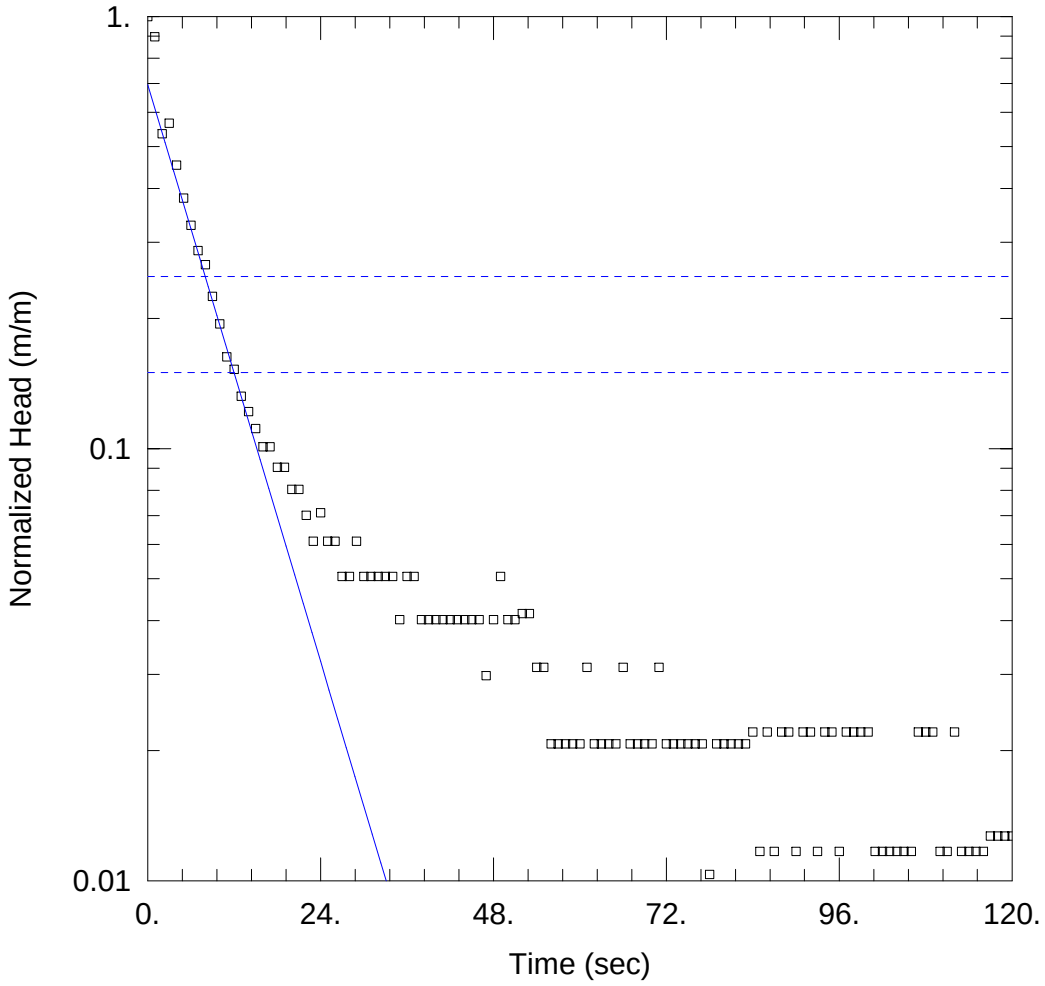
WELL DATA (AR-GWBH01)

Initial Displacement: 0.304 m
Total Well Penetration Depth: 3.247 m
Casing Radius: 0.025 m
Static Water Column Height: 3.247 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 17.63 m/day y0 = 0.209 m



FALLING-HEAD 01

Data Set: \...\AR-GWBH01_FH01_Hv.aqt
Date: 05/22/17 Time: 14:23:04

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH01
Test Date: 18.04.17

AQUIFER DATA

Saturated Thickness: 8.247 m Anisotropy Ratio (Kz/Kr): 0.2

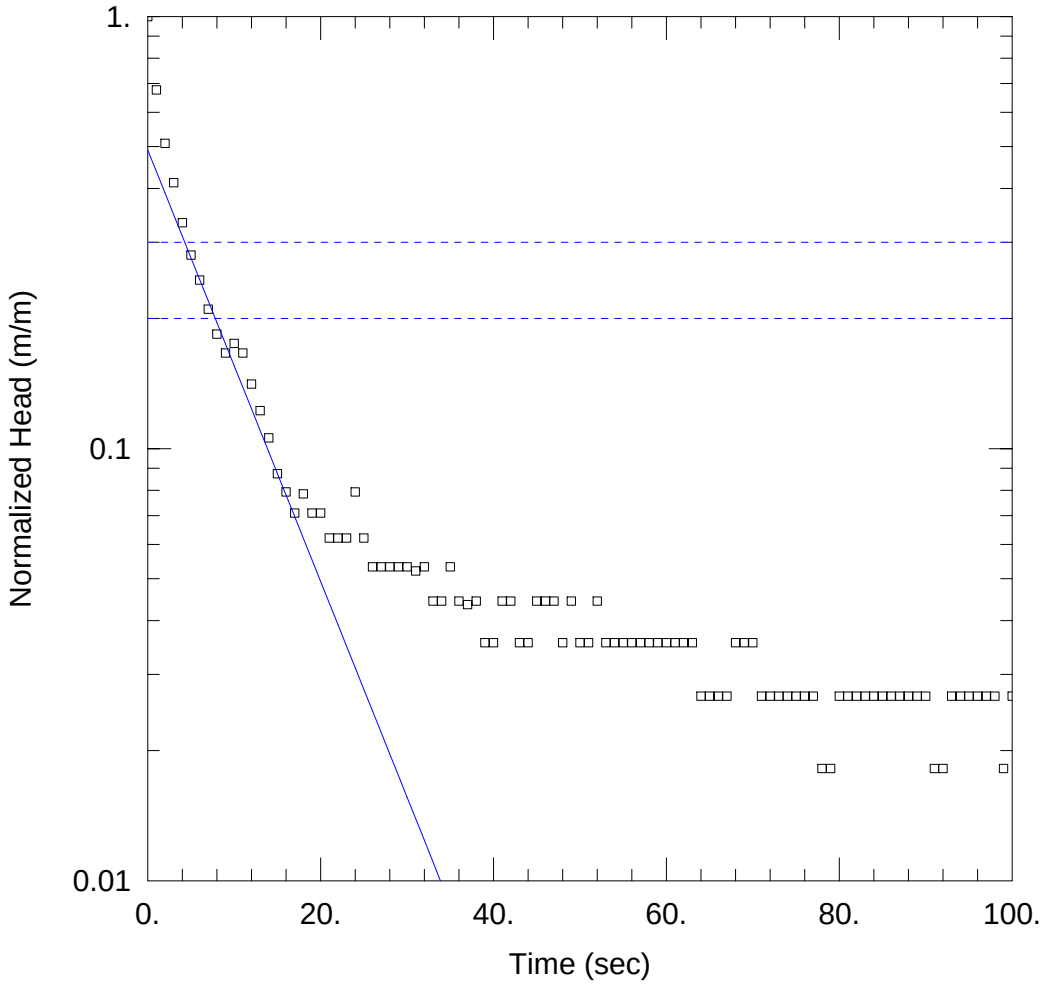
WELL DATA (AR-GWBH01)

Initial Displacement: 0.304 m
Total Well Penetration Depth: 3.247 m
Casing Radius: 0.025 m
Static Water Column Height: 3.247 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 26.64 m/day y0 = 0.2111 m



FALLING-HEAD 02

Data Set: \...\AR-GWBH01_FH02_BR.aqt
Date: 05/22/17 Time: 14:22:51

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH01
Test Date: 18.04.17

AQUIFER DATA

Saturated Thickness: 8.247 m Anisotropy Ratio (Kz/Kr): 0.2

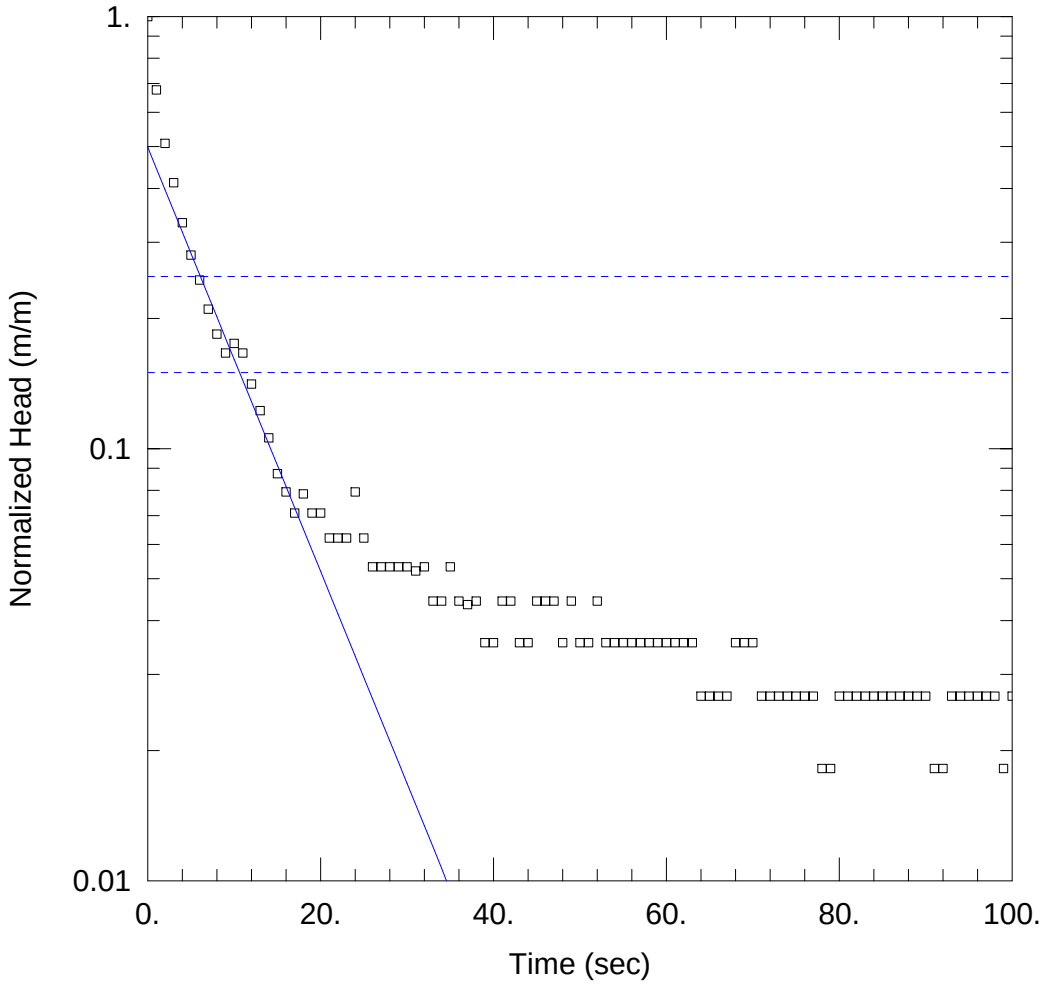
WELL DATA (AR-GWBH01)

Initial Displacement: 0.358 m
Total Well Penetration Depth: 3.247 m
Casing Radius: 0.025 m
Static Water Column Height: 3.247 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 16.25 m/day y0 = 0.1758 m



FALLING-HEAD 02

Data Set: \...\AR-GWBH01_FH02_Hv.aqt
Date: 05/22/17 Time: 12:24:20

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH01
Test Date: 18.04.17

AQUIFER DATA

Saturated Thickness: 8.247 m Anisotropy Ratio (Kz/Kr): 0.2

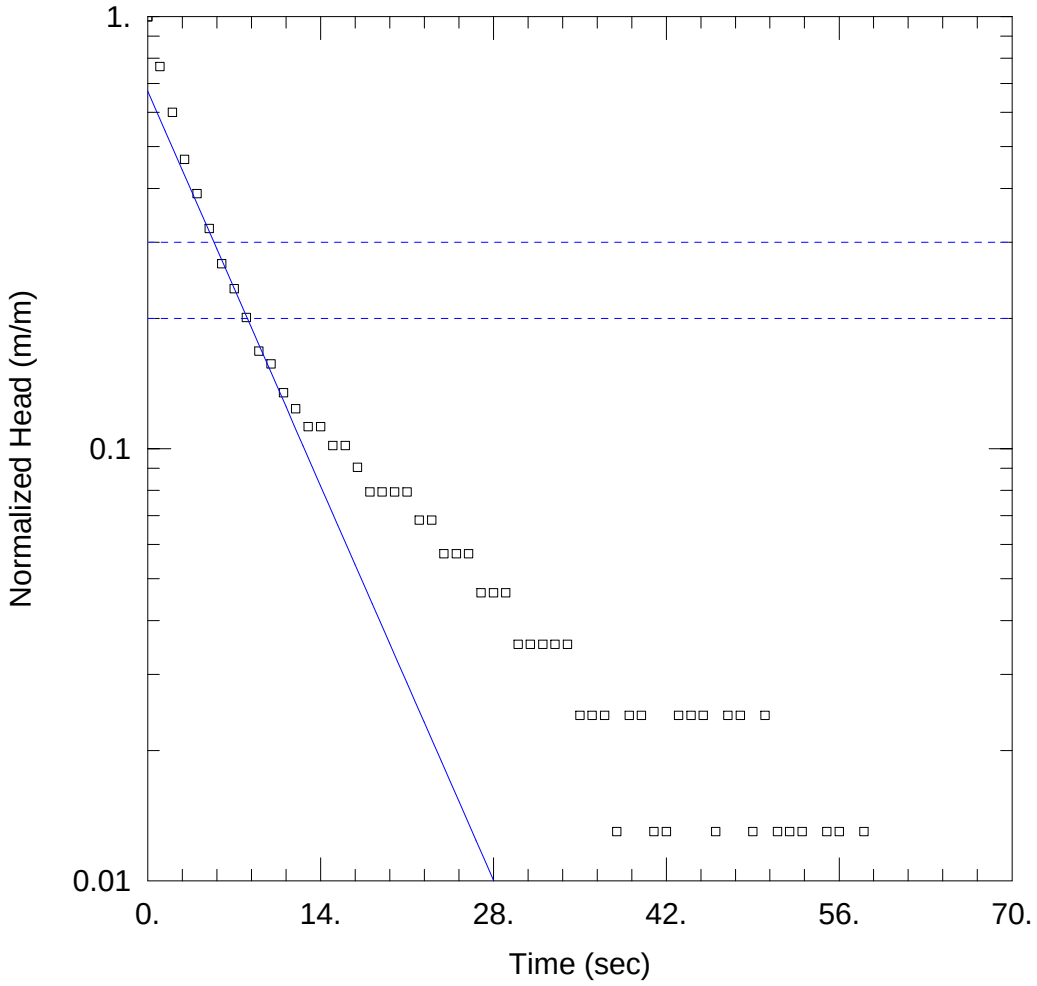
WELL DATA (AR-GWBH01)

Initial Displacement: 0.358 m
Total Well Penetration Depth: 3.247 m
Casing Radius: 0.025 m
Static Water Column Height: 3.247 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 23.53 m/day y0 = 0.1782 m



RISING-HEAD 01

Data Set: \...\AR-GWBH01_RH01_BR.aqt
Date: 05/22/17 Time: 12:24:29

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH01
Test Date: 18.04.17

AQUIFER DATA

Saturated Thickness: 8.247 m Anisotropy Ratio (Kz/Kr): 0.2

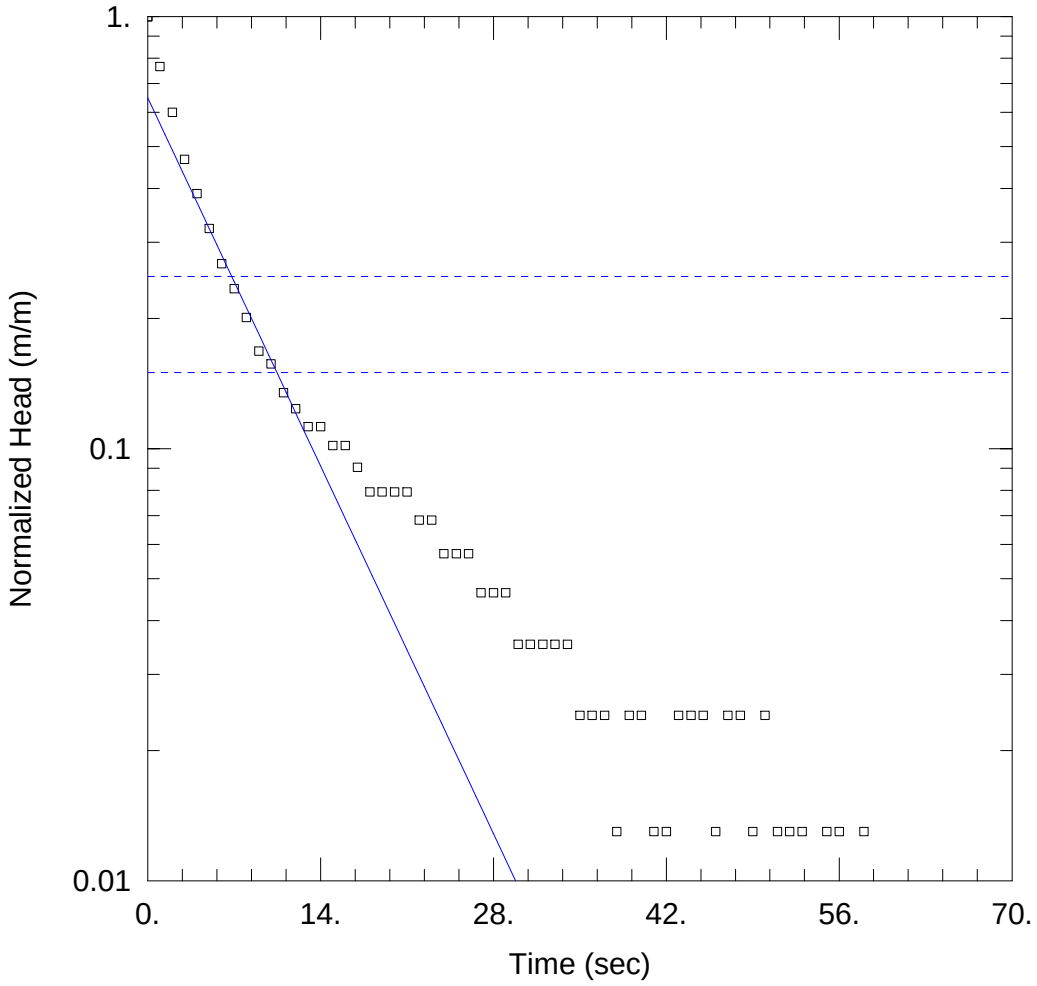
WELL DATA (AR-GWBH01)

Initial Displacement: 0.284 m
Total Well Penetration Depth: 3.247 m
Casing Radius: 0.025 m
Static Water Column Height: 3.247 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 21.2 m/day y0 = 0.1906 m



RISING-HEAD 01

Data Set: \...\AR-GWBH01_RH01_Hv.aqt
Date: 05/22/17 Time: 12:24:38

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH01
Test Date: 18.04.17

AQUIFER DATA

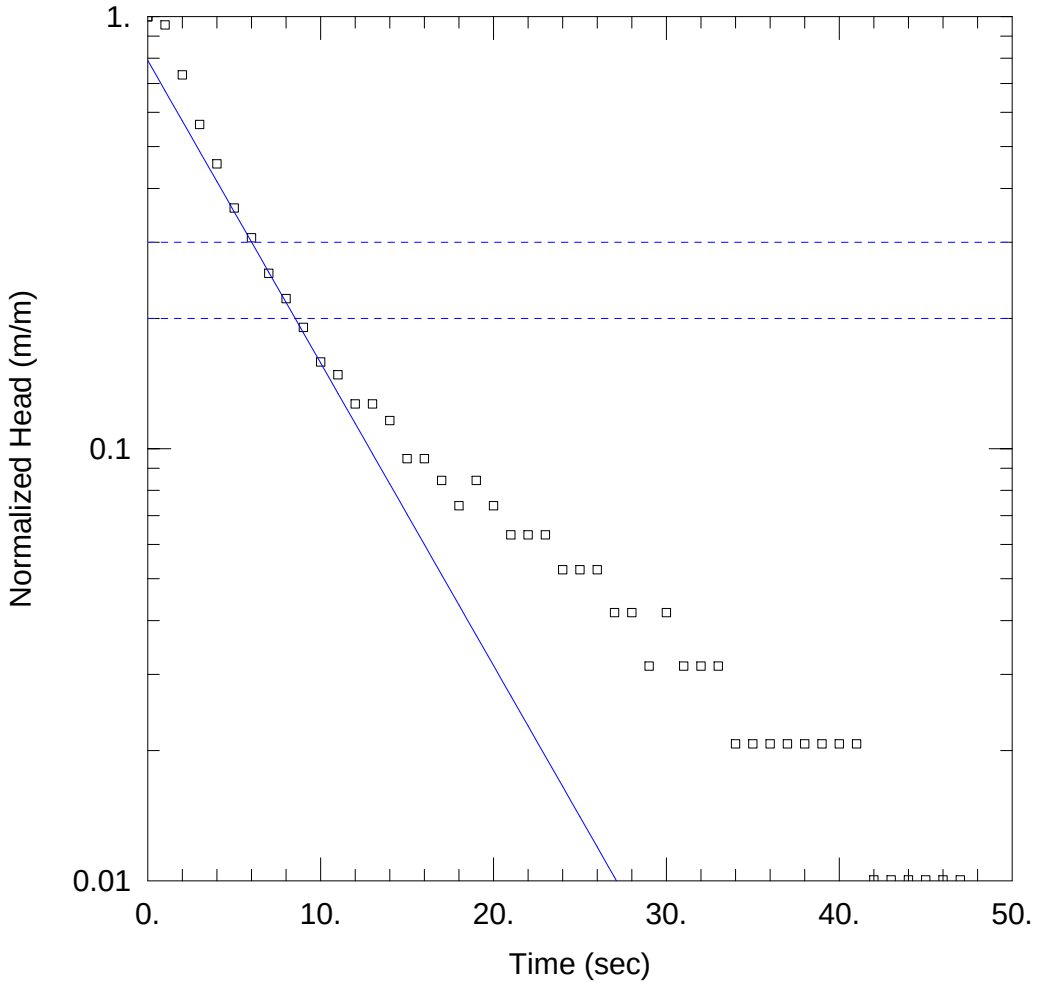
Saturated Thickness: 8.247 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (AR-GWBH01)

Initial Displacement: 0.284 m
Total Well Penetration Depth: 3.247 m
Casing Radius: 0.025 m
Static Water Column Height: 3.247 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 29.13 m/day
y0 = 0.184 m



RISING-HEAD 02

Data Set: \...\AR-GWBH01_RH02_BR.aqt
Date: 05/22/17 Time: 12:24:47

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH01
Test Date: 18.04.17

AQUIFER DATA

Saturated Thickness: 8.247 m Anisotropy Ratio (Kz/Kr): 0.2

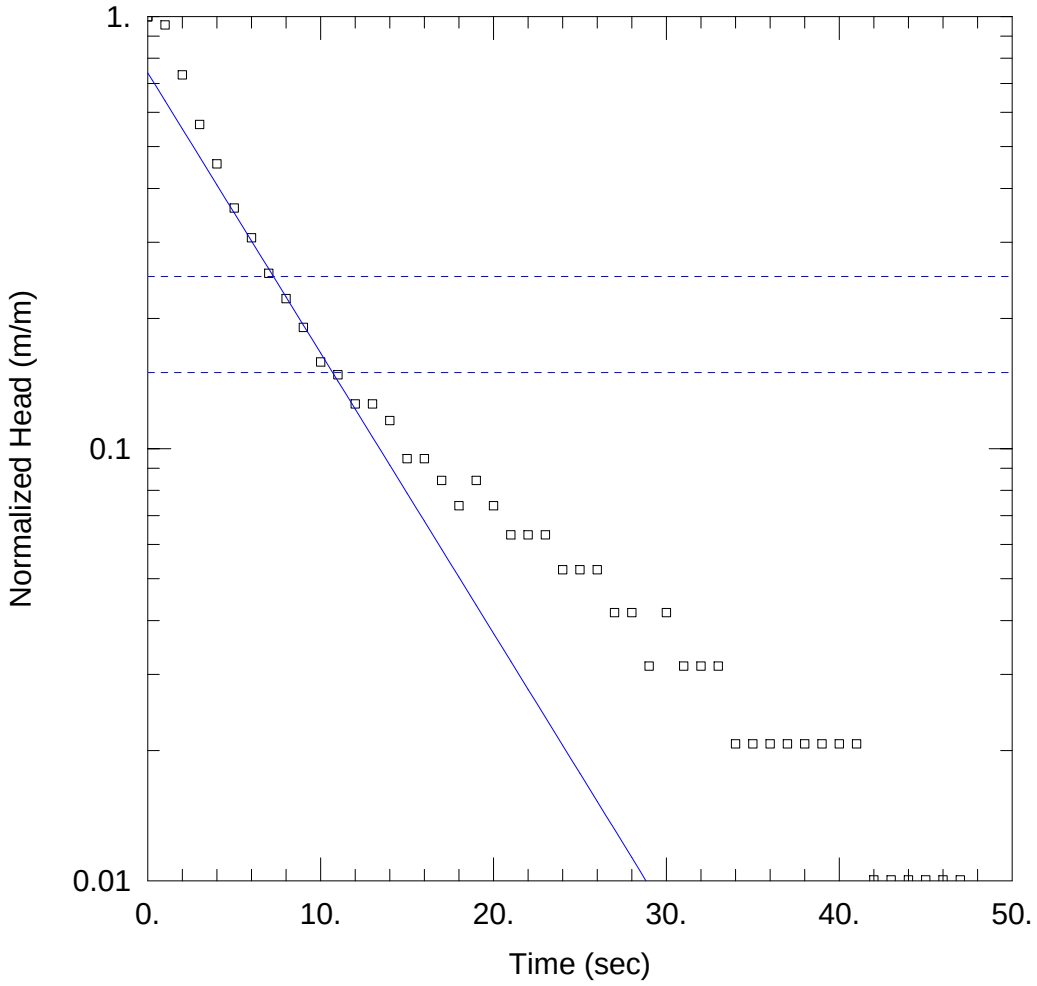
WELL DATA (AR-GWBH01)

Initial Displacement: 0.296 m
Total Well Penetration Depth: 3.247 m
Casing Radius: 0.025 m
Static Water Column Height: 3.247 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 22.78 m/day y0 = 0.2341 m



RISING-HEAD 02

Data Set: \...\AR-GWBH01_RH02_Hv.aqt
Date: 05/22/17 Time: 12:24:57

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH01
Test Date: 18.04.17

AQUIFER DATA

Saturated Thickness: 8.247 m Anisotropy Ratio (Kz/Kr): 0.2

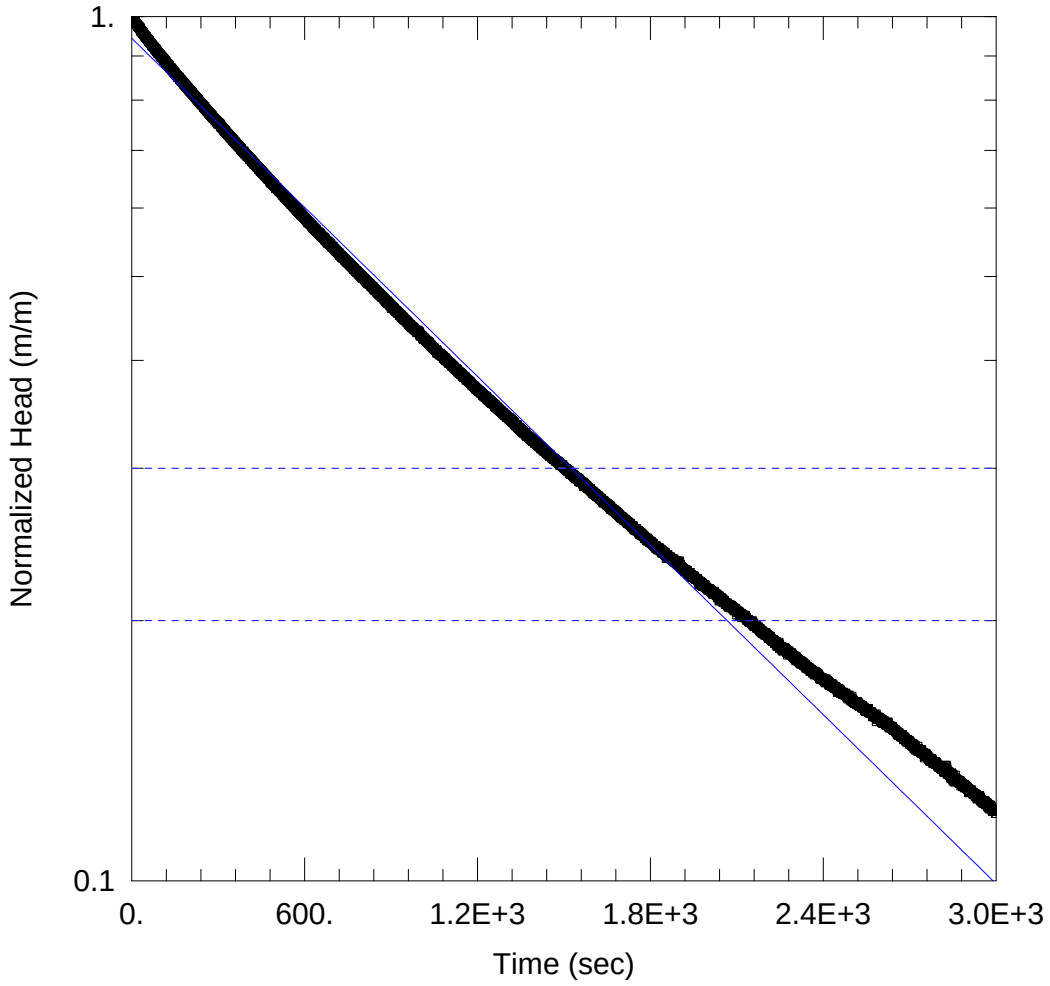
WELL DATA (AR-GWBH01)

Initial Displacement: 0.296 m
Total Well Penetration Depth: 3.247 m
Casing Radius: 0.025 m
Static Water Column Height: 3.247 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 31.09 m/day y0 = 0.2192 m



FALLING-HEAD 01

Data Set: \...\AR-GWBH04_FH01_BR.aqt
Date: 05/22/17 Time: 14:28:44

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH04
Test Date: 29.03.2017

AQUIFER DATA

Saturated Thickness: 28.43 m Anisotropy Ratio (Kz/Kr): 0.2

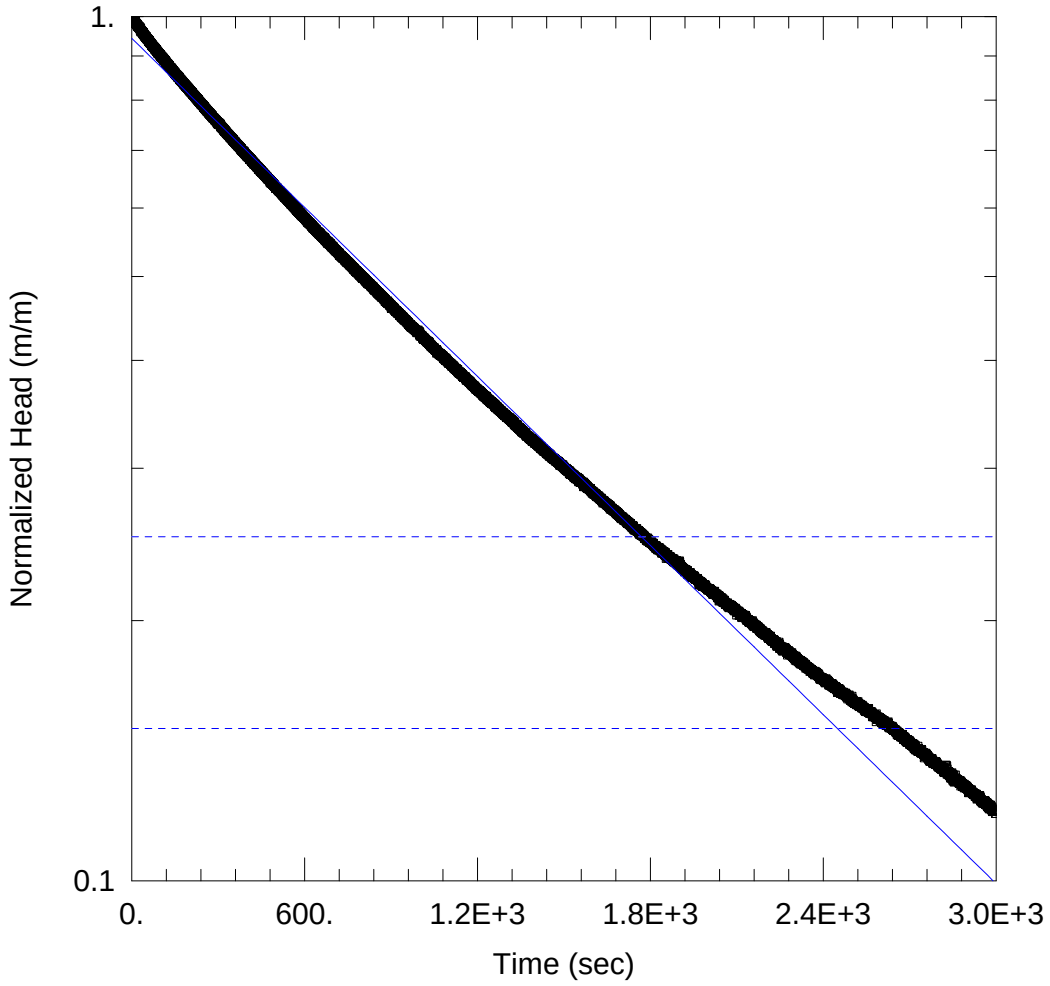
WELL DATA (Falling-Head 01)

Initial Displacement: 0.4697 m
Total Well Penetration Depth: 23.34 m
Casing Radius: 0.025 m
Static Water Column Height: 23.34 m
Screen Length: 4. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.1081 m/day y0 = 0.4431 m



FALLING-HEAD 01

Data Set: \...\AR-GWBH04_FH01_Hv.aqt
Date: 05/22/17 Time: 14:28:37

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH04
Test Date: 29.03.2017

AQUIFER DATA

Saturated Thickness: 28.43 m Anisotropy Ratio (Kz/Kr): 0.2

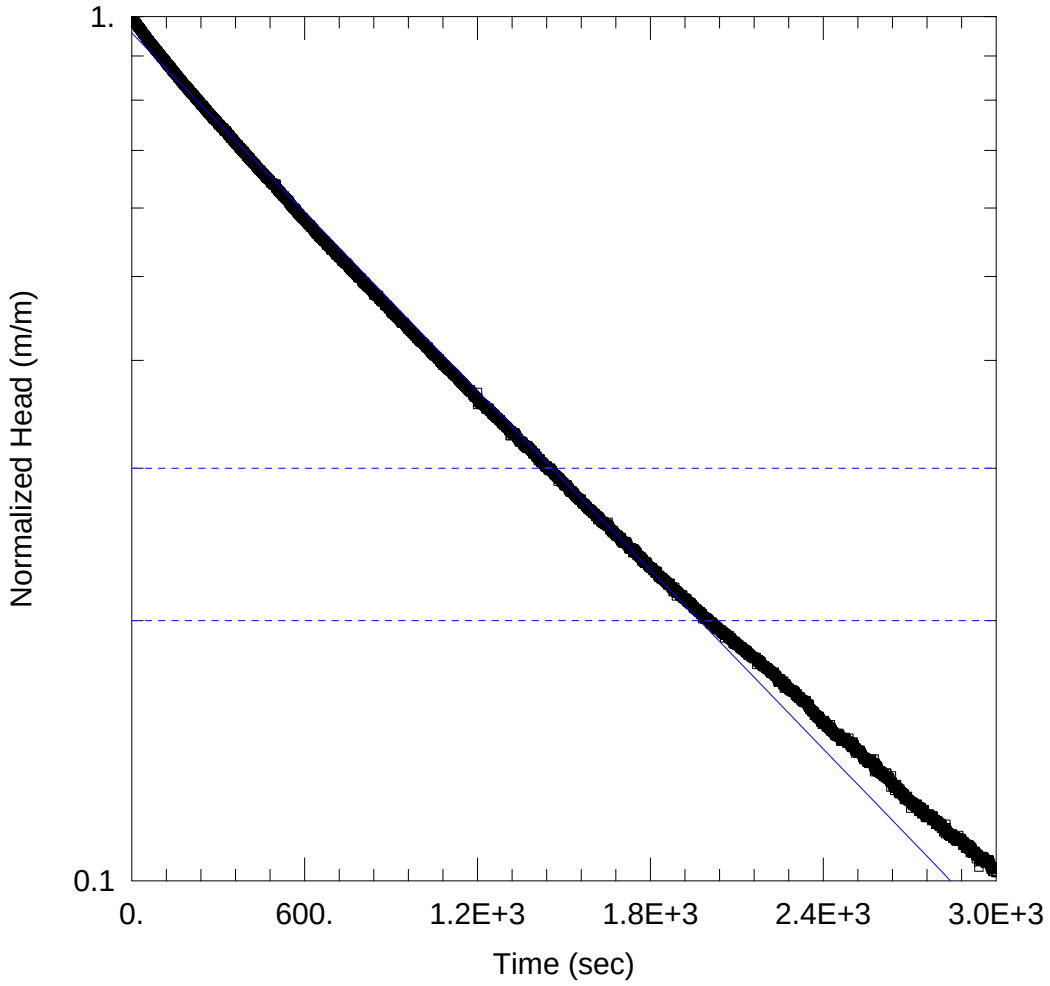
WELL DATA (Falling-Head 01)

Initial Displacement: 0.4697 m
Total Well Penetration Depth: 23.34 m
Casing Radius: 0.025 m
Static Water Column Height: 23.34 m
Screen Length: 4. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.1252 m/day y0 = 0.4431 m



FALLING-HEAD 02

Data Set: \...\AR-GWBH04_FH02_BR.aqt
Date: 05/22/17 Time: 14:28:32

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH04
Test Date: 29.03.2017

AQUIFER DATA

Saturated Thickness: 28.34 m Anisotropy Ratio (Kz/Kr): 0.2

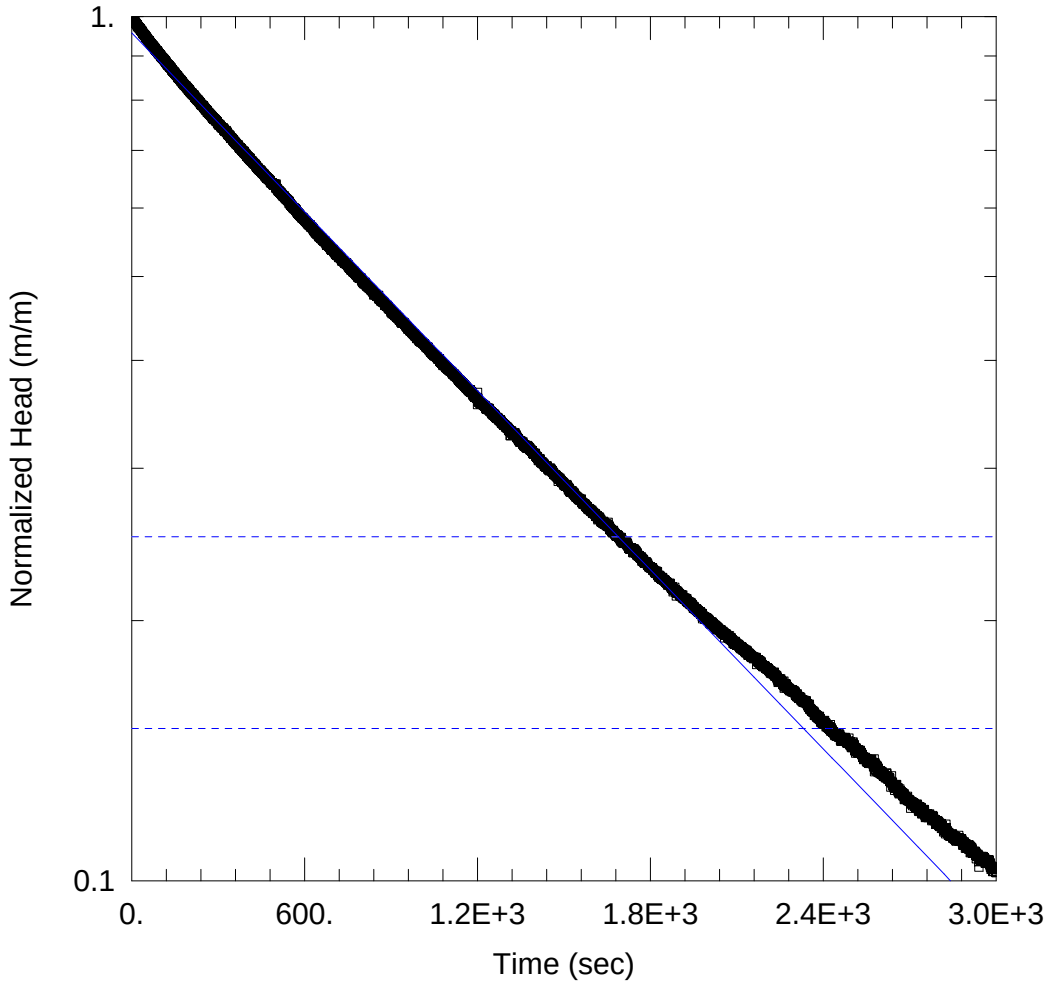
WELL DATA (AR-GWBH04)

Initial Displacement: 0.4706 m
Total Well Penetration Depth: 23.34 m
Casing Radius: 0.025 m
Static Water Column Height: 23.43 m
Screen Length: 4. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.1144 m/day
y0 = 0.4504 m



FALLING-HEAD 02

Data Set: \...\AR-GWBH04_FH02_Hv.aqt
Date: 05/22/17 Time: 14:28:24

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH04
Test Date: 29.03.2017

AQUIFER DATA

Saturated Thickness: 28.34 m Anisotropy Ratio (Kz/Kr): 0.2

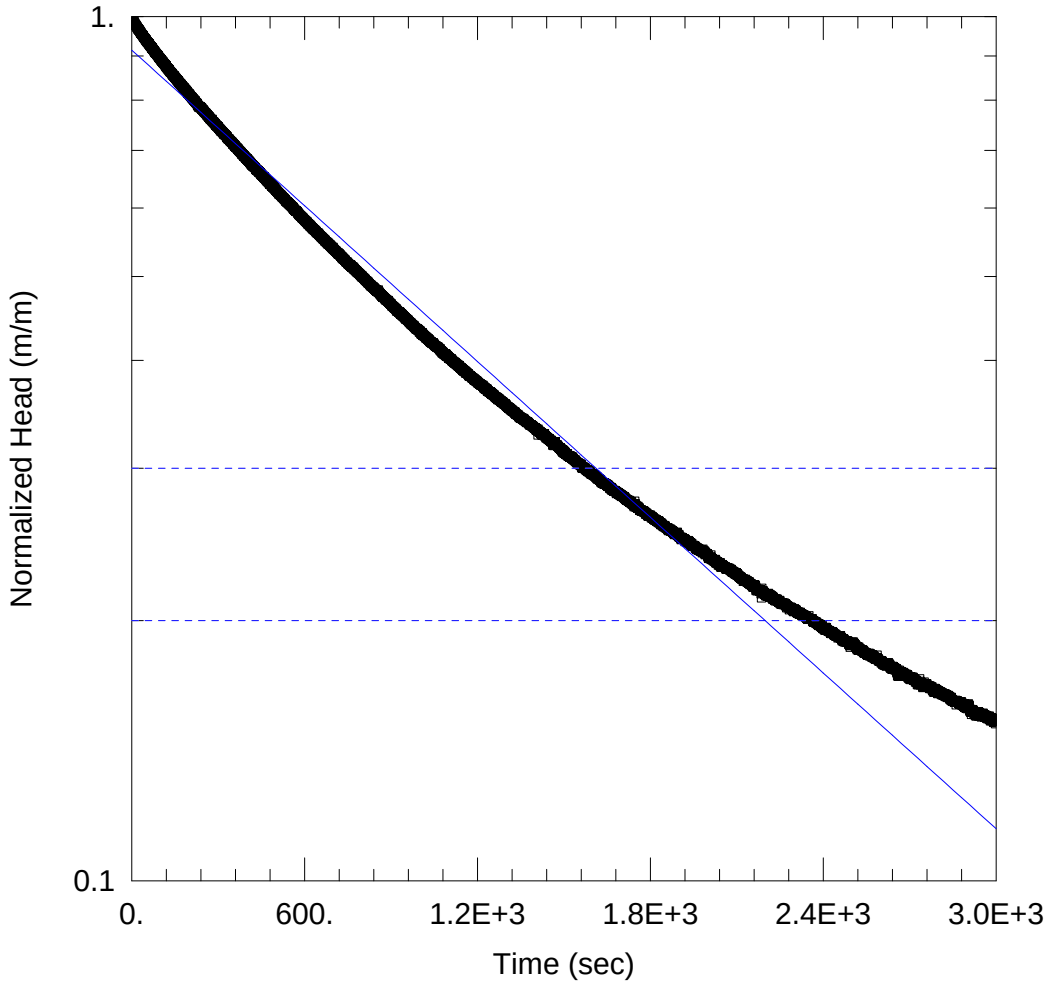
WELL DATA (AR-GWBH04)

Initial Displacement: 0.4706 m
Total Well Penetration Depth: 23.34 m
Casing Radius: 0.025 m
Static Water Column Height: 23.43 m
Screen Length: 4. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.1326 m/day y0 = 0.4503 m



RISING-HEAD 01

Data Set: \...\AR-GWBH04_RH01_BR.aqt
Date: 05/22/17 Time: 14:28:19

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH04
Test Date: 29.03.2017

AQUIFER DATA

Saturated Thickness: 28.34 m Anisotropy Ratio (Kz/Kr): 0.2

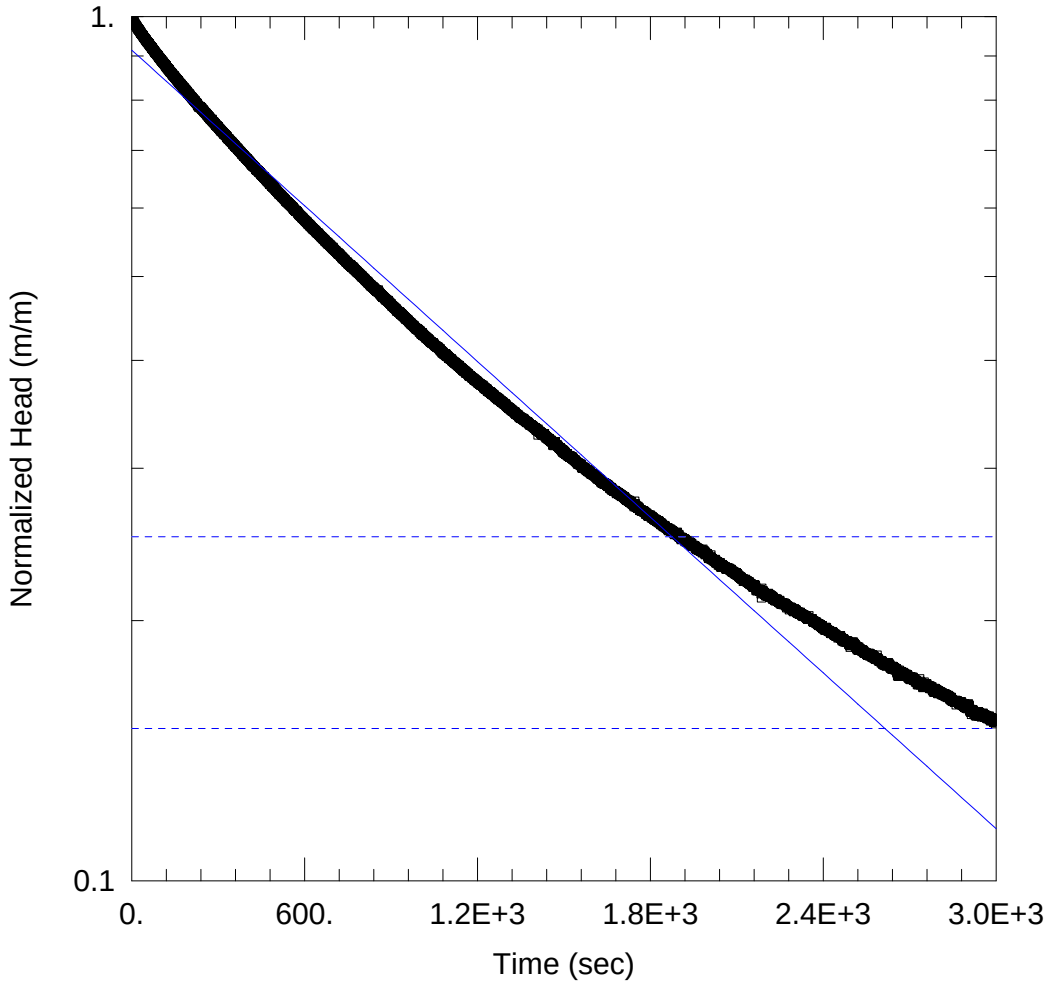
WELL DATA (AR-GWBH04)

Initial Displacement: 0.475 m
Total Well Penetration Depth: 23.34 m
Casing Radius: 0.025 m
Static Water Column Height: 23.34 m
Screen Length: 4. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.09958 m/day
y0 = 0.4343 m



RISING-HEAD 01

Data Set: \...\AR-GWBH04_RH01_Hv.aqt
Date: 05/22/17 Time: 14:28:13

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH04
Test Date: 29.03.2017

AQUIFER DATA

Saturated Thickness: 28.34 m Anisotropy Ratio (Kz/Kr): 0.2

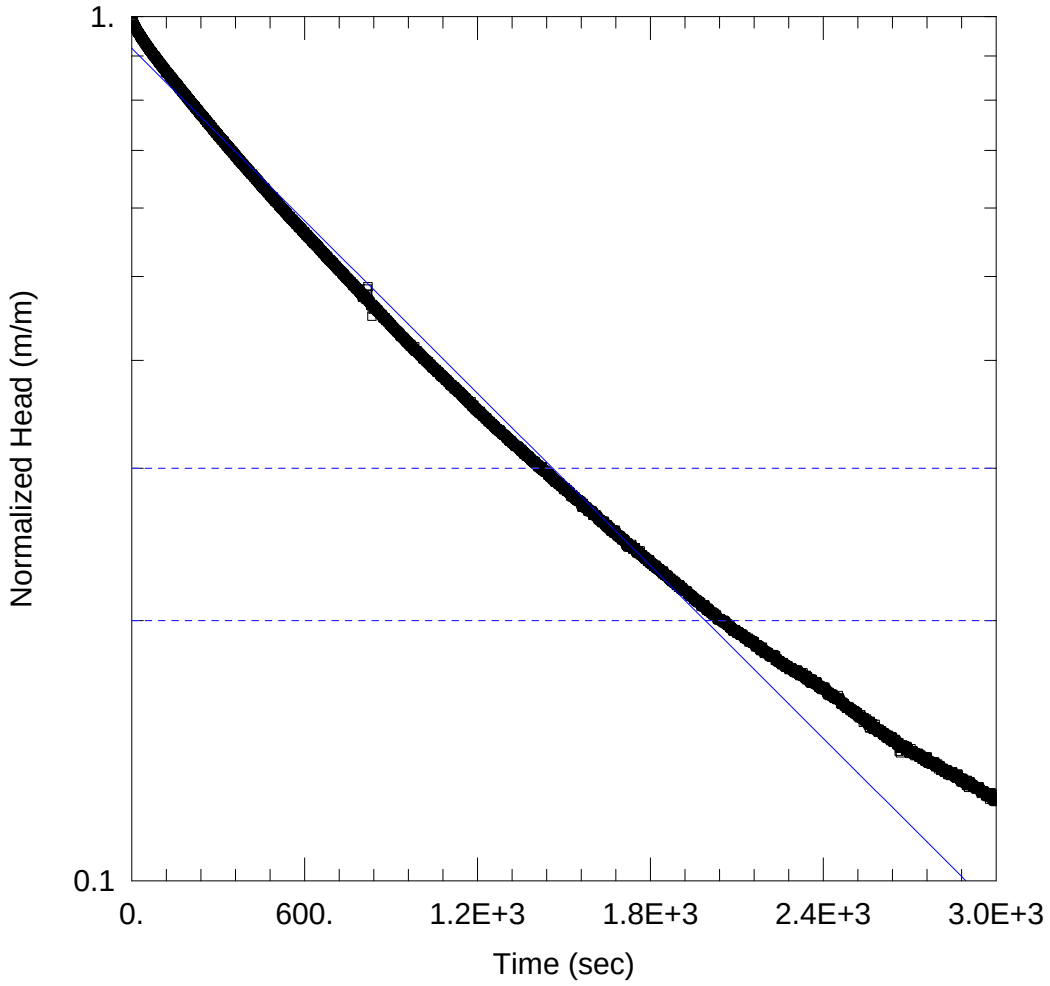
WELL DATA (AR-GWBH04)

Initial Displacement: 0.475 m
Total Well Penetration Depth: 23.34 m
Casing Radius: 0.025 m
Static Water Column Height: 23.34 m
Screen Length: 4. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.1153 m/day
y0 = 0.4342 m



RISING-HEAD 02

Data Set: \...\AR-GWBH04_RH02_BR.aqt
Date: 05/22/17 Time: 14:28:08

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH04
Test Date: 29.03.2017

AQUIFER DATA

Saturated Thickness: 28.34 m Anisotropy Ratio (Kz/Kr): 0.2

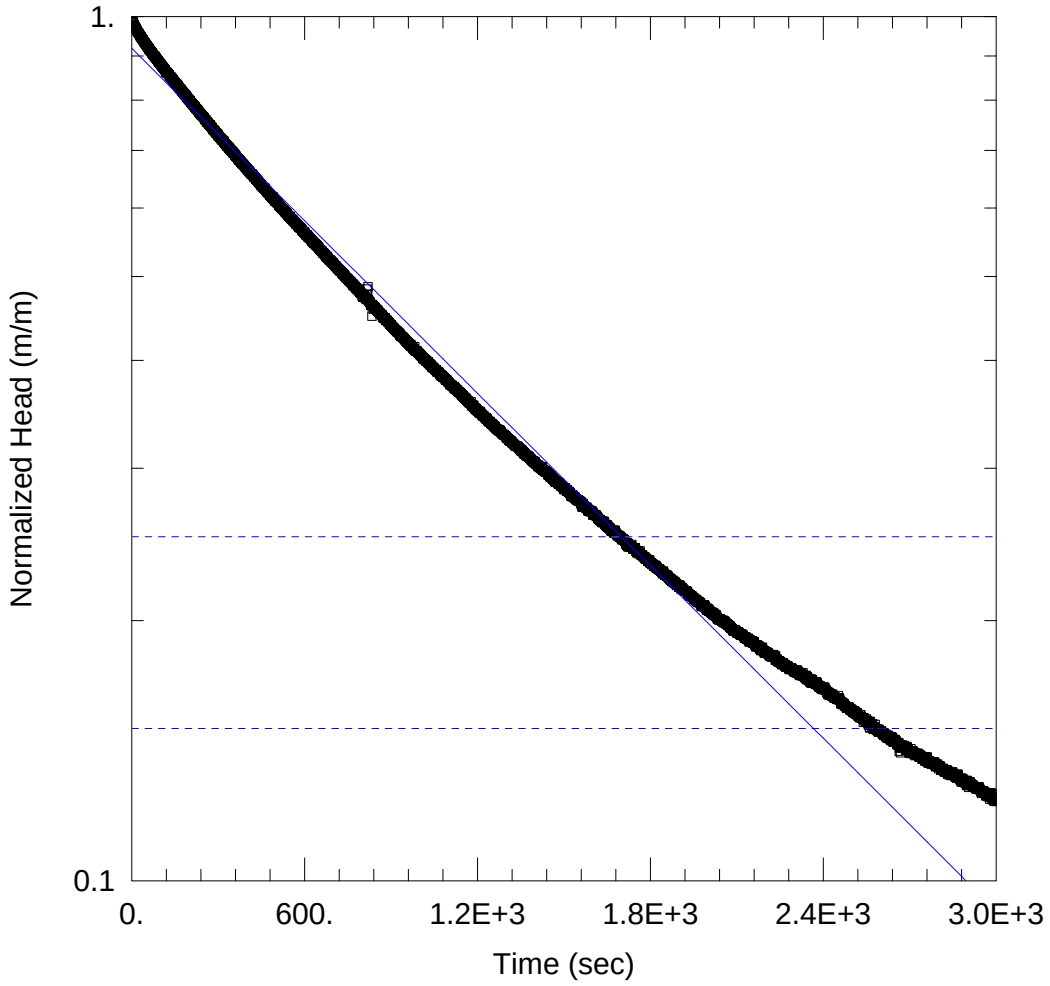
WELL DATA (AR-GWBH04)

Initial Displacement: 0.486 m
Total Well Penetration Depth: 23.34 m
Casing Radius: 0.025 m
Static Water Column Height: 23.34 m
Screen Length: 4. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.1103 m/day
y0 = 0.4466 m



RISING-HEAD 02

Data Set: \...\AR-GWBH04_RH02_Hv.aqt
Date: 05/22/17 Time: 14:27:59

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH04
Test Date: 29.03.2017

AQUIFER DATA

Saturated Thickness: 28.34 m Anisotropy Ratio (Kz/Kr): 0.2

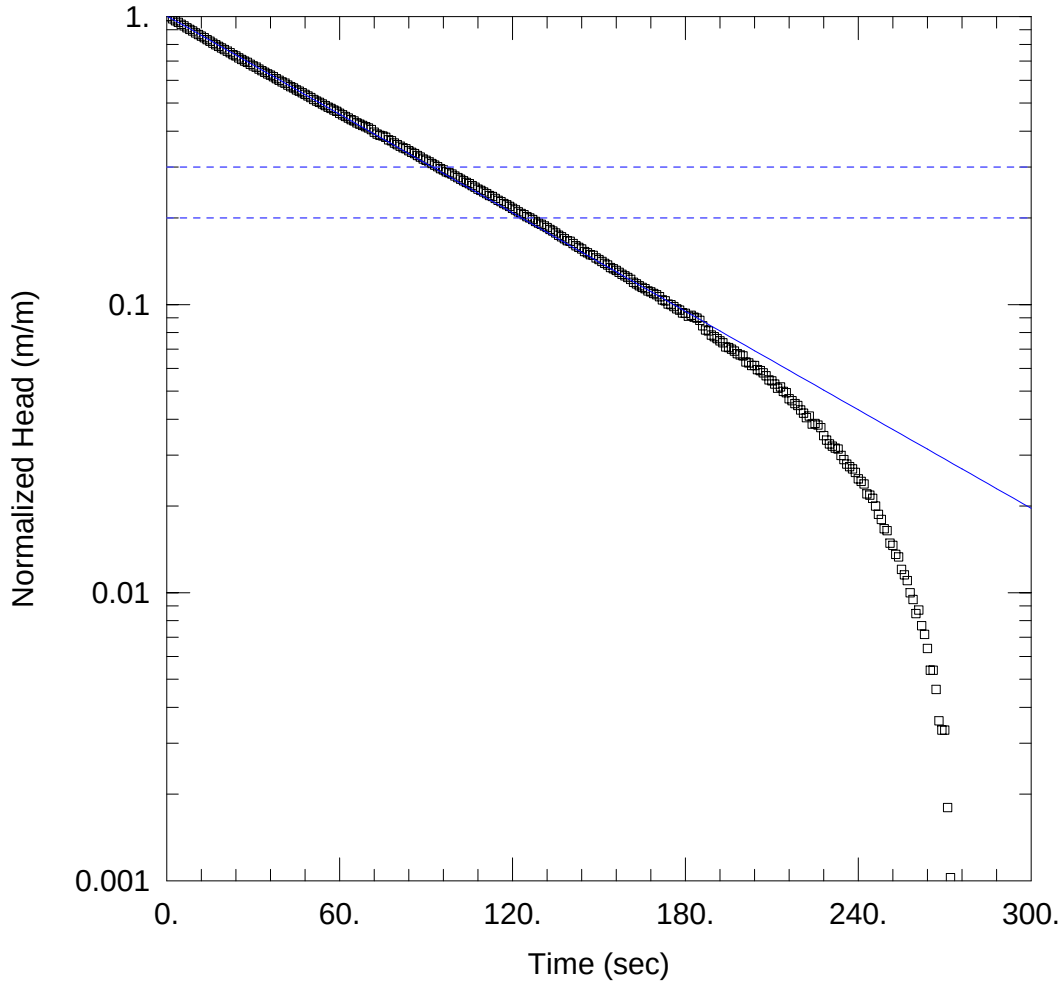
WELL DATA (AR-GWBH04)

Initial Displacement: 0.486 m
Total Well Penetration Depth: 23.34 m
Casing Radius: 0.025 m
Static Water Column Height: 23.34 m
Screen Length: 4. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.1278 m/day
y0 = 0.4465 m



FALLING-HEAD TEST 01

Data Set: \...\AR-GWBH05_FH01_BR.aqt
Date: 05/22/17 Time: 14:37:00

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH05
Test Date: 10.03.2017

AQUIFER DATA

Saturated Thickness: 11.99 m Anisotropy Ratio (Kz/Kr): 0.2

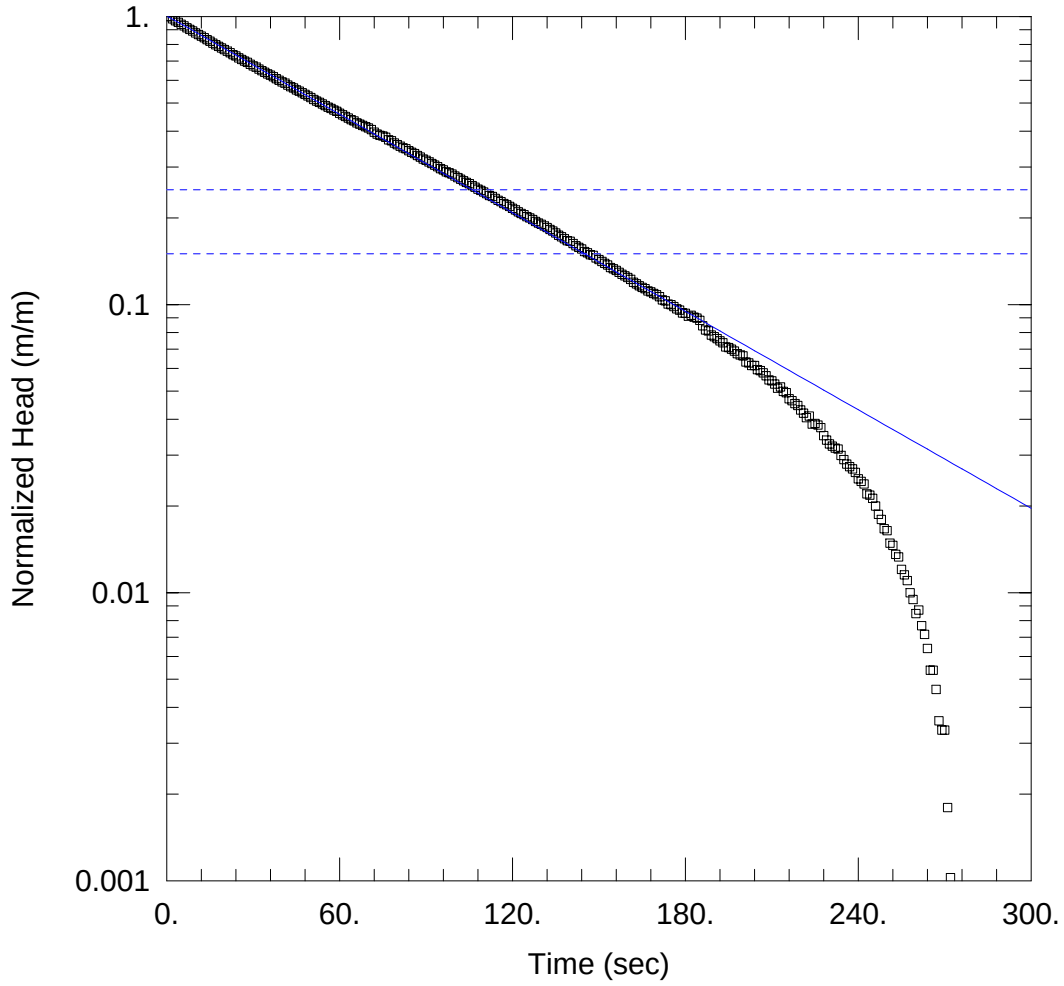
WELL DATA (AR-GWBH05)

Initial Displacement: 0.3905 m
Total Well Penetration Depth: 6.99 m
Casing Radius: 0.025 m
Static Water Column Height: 6.99 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 2.087 m/day y0 = 0.3927 m



FALLING-HEAD TEST 01

Data Set: \...\AR-GWBH05_FH01_Hv.aqt
Date: 05/22/17 Time: 14:36:55

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH05
Test Date: 10.03.2017

AQUIFER DATA

Saturated Thickness: 11.99 m Anisotropy Ratio (Kz/Kr): 0.2

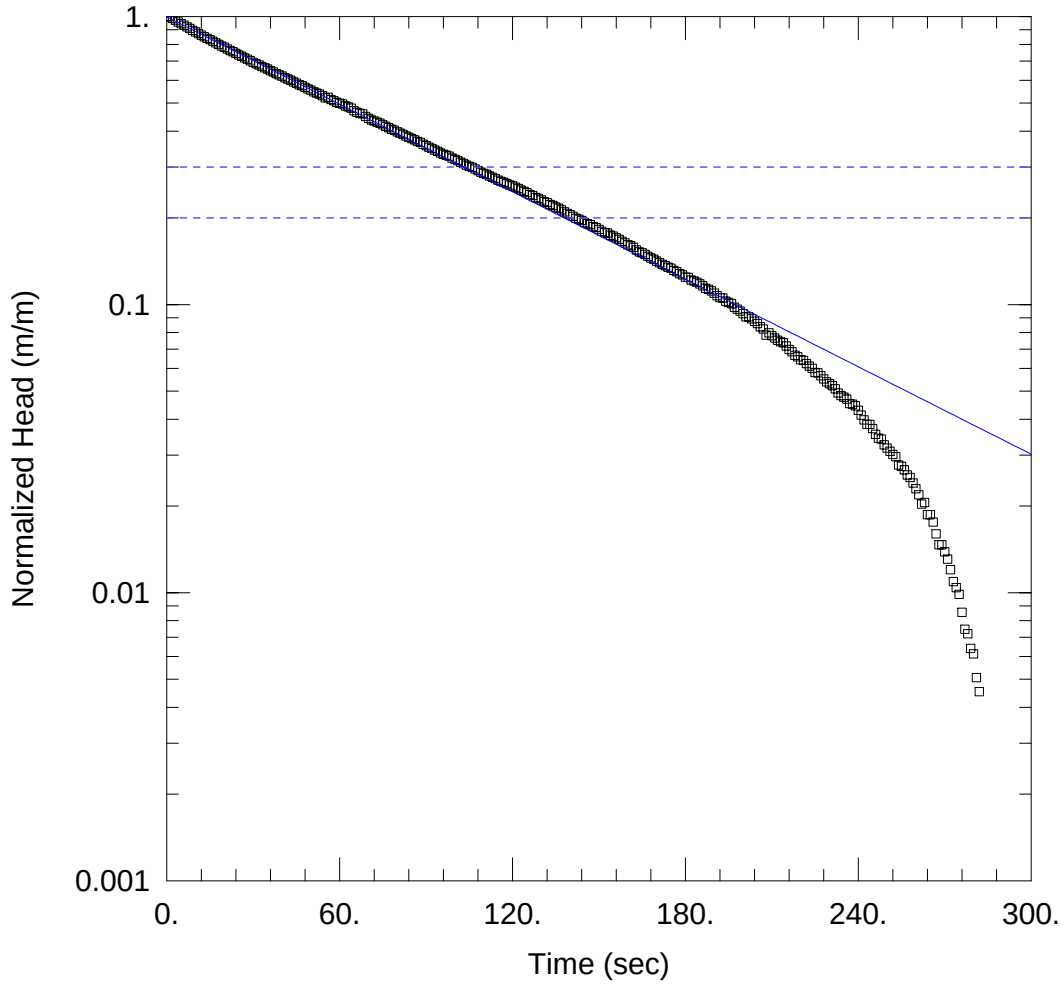
WELL DATA (AR-GWBH05)

Initial Displacement: 0.3905 m
Total Well Penetration Depth: 6.99 m
Casing Radius: 0.025 m
Static Water Column Height: 6.99 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 2.732 m/day y0 = 0.3927 m



FALLING-HEAD 02

Data Set: \...\AR-GWBH05_FH02_BR.aqt
Date: 05/22/17 Time: 14:36:50

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH05
Test Date: 10.03.2017

AQUIFER DATA

Saturated Thickness: 11.99 m Anisotropy Ratio (Kz/Kr): 0.2

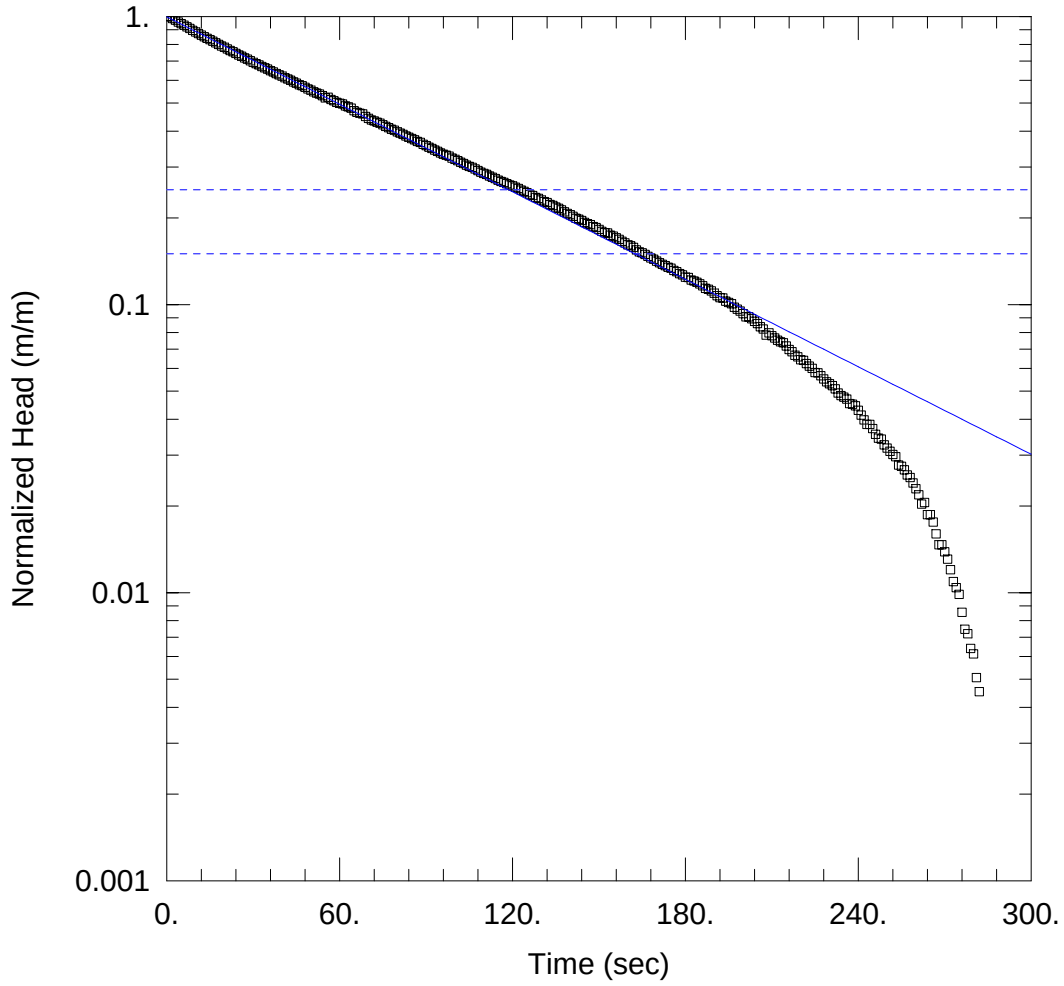
WELL DATA (AR-GWBH05)

Initial Displacement: 0.375 m
Total Well Penetration Depth: 6.99 m
Casing Radius: 0.025 m
Static Water Column Height: 6.99 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.853 m/day y0 = 0.3737 m



FALLING-HEAD 02

Data Set: \...\AR-GWBH05_FH02_Hv.aqt
Date: 05/22/17 Time: 14:36:45

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH05
Test Date: 10.03.2017

AQUIFER DATA

Saturated Thickness: 11.99 m Anisotropy Ratio (Kz/Kr): 0.2

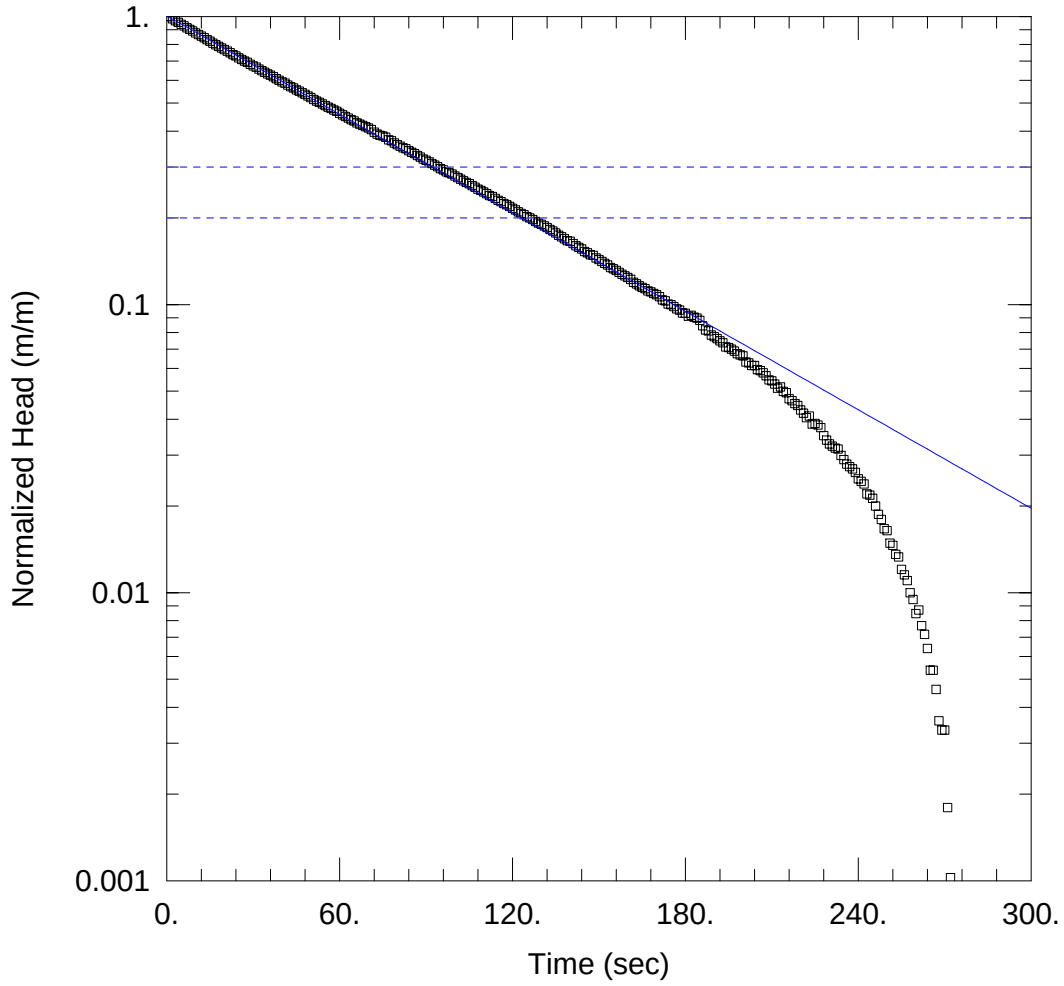
WELL DATA (AR-GWBH05)

Initial Displacement: 0.375 m
Total Well Penetration Depth: 6.99 m
Casing Radius: 0.025 m
Static Water Column Height: 6.99 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 2.426 m/day y0 = 0.3738 m



FALLING-HEAD TEST 01

Data Set: \...\AR-GWBH05_RH01_BR.aqt
Date: 05/22/17 Time: 14:36:39

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH05
Test Date: 10.03.2017

AQUIFER DATA

Saturated Thickness: 11.99 m Anisotropy Ratio (Kz/Kr): 0.2

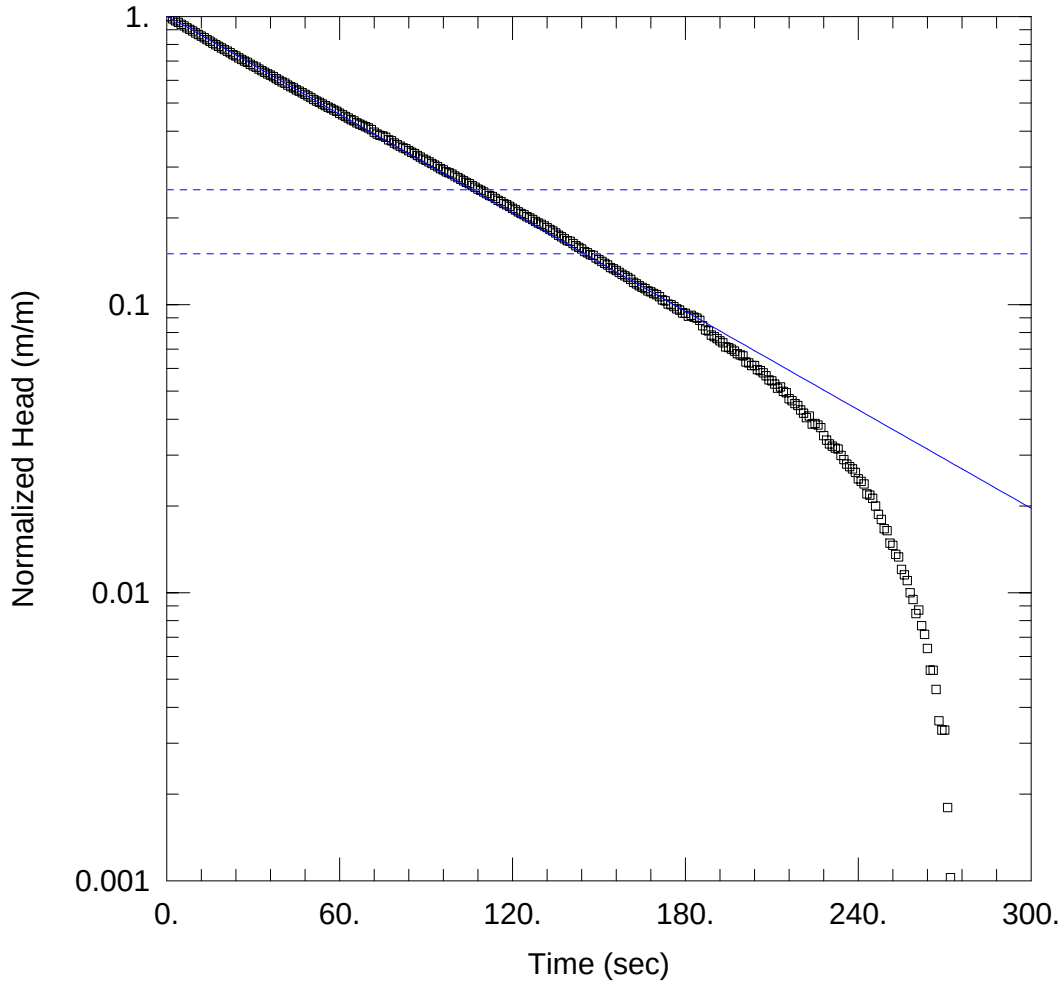
WELL DATA (AR-GWBH05)

Initial Displacement: 0.3905 m
Total Well Penetration Depth: 6.99 m
Casing Radius: 0.025 m
Static Water Column Height: 6.99 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 2.087 m/day y0 = 0.3927 m



FALLING-HEAD TEST 01

Data Set: \...\AR-GWBH05_RH01_Hv.aqt
Date: 05/22/17 Time: 14:36:33

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH05
Test Date: 10.03.2017

AQUIFER DATA

Saturated Thickness: 11.99 m Anisotropy Ratio (Kz/Kr): 0.2

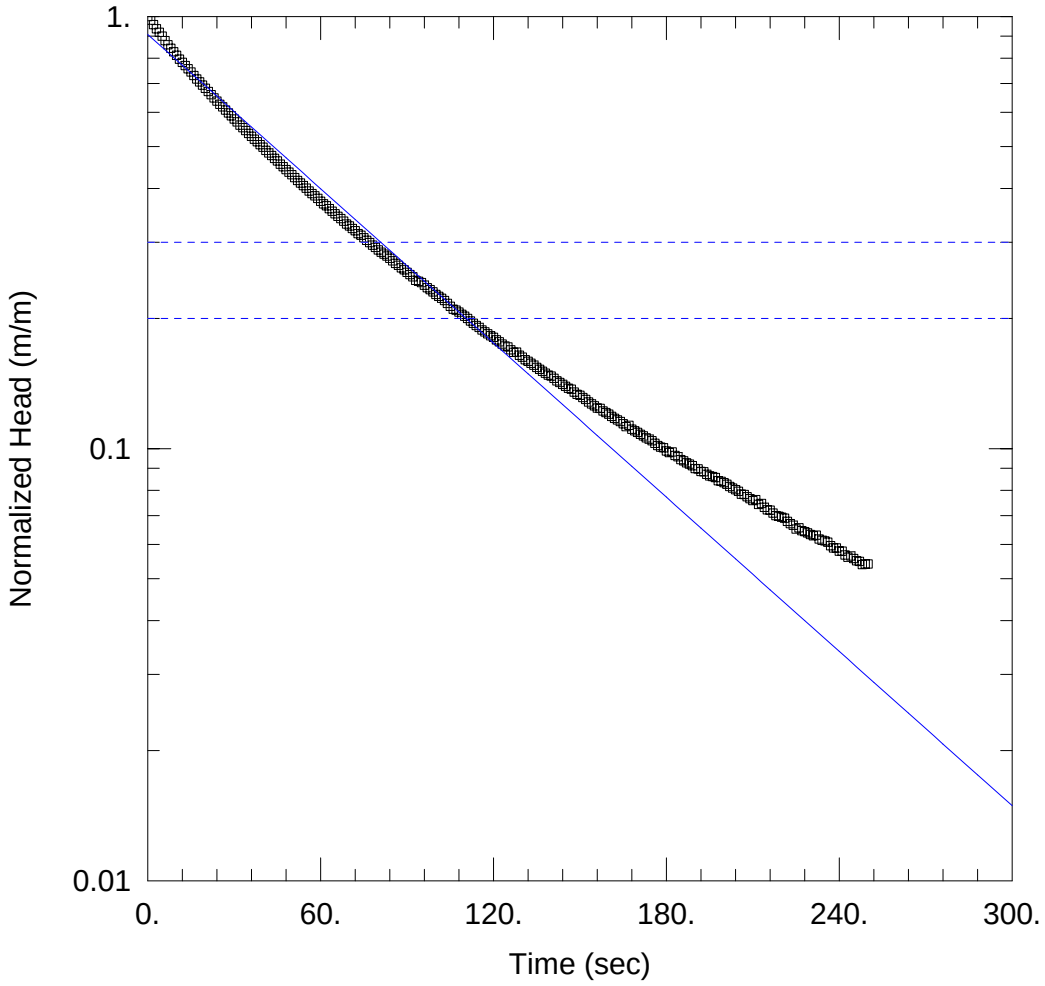
WELL DATA (AR-GWBH05)

Initial Displacement: 0.3905 m
Total Well Penetration Depth: 6.99 m
Casing Radius: 0.025 m
Static Water Column Height: 6.99 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 2.732 m/day y0 = 0.3927 m



RISING-HEAD 02

Data Set: \...\AR-GWBH05_RH02_BR.aqt
Date: 05/22/17 Time: 14:36:27

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH05
Test Date: 10.03.2017

AQUIFER DATA

Saturated Thickness: 11.99 m Anisotropy Ratio (Kz/Kr): 0.2

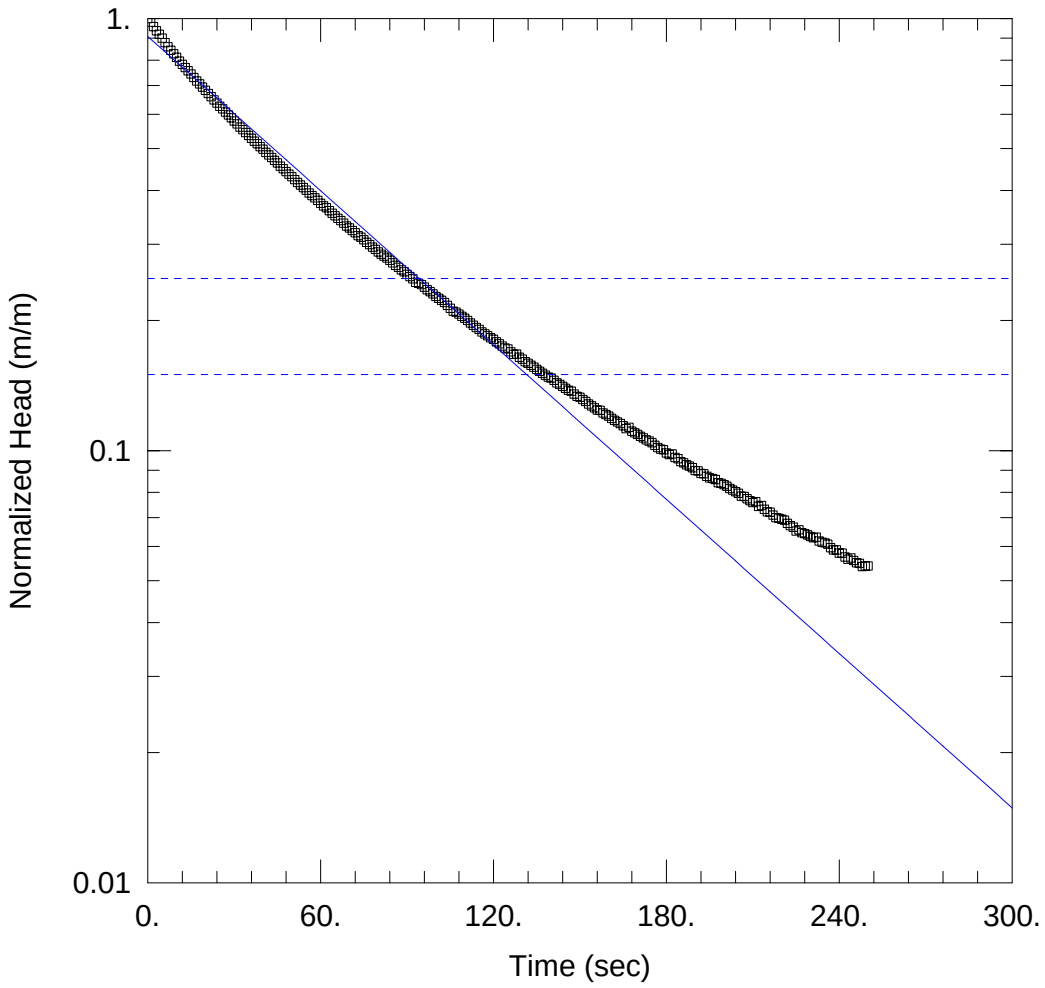
WELL DATA (AR-GWBH05)

Initial Displacement: 0.525 m
Total Well Penetration Depth: 6.99 m
Casing Radius: 0.025 m
Static Water Column Height: 6.99 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 2.178 m/day y0 = 0.477 m



RISING-HEAD 02

Data Set: \...\AR-GWBH05_RH02_Hv.aqt
Date: 05/22/17 Time: 14:36:21

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH05
Test Date: 10.03.2017

AQUIFER DATA

Saturated Thickness: 11.99 m Anisotropy Ratio (Kz/Kr): 0.2

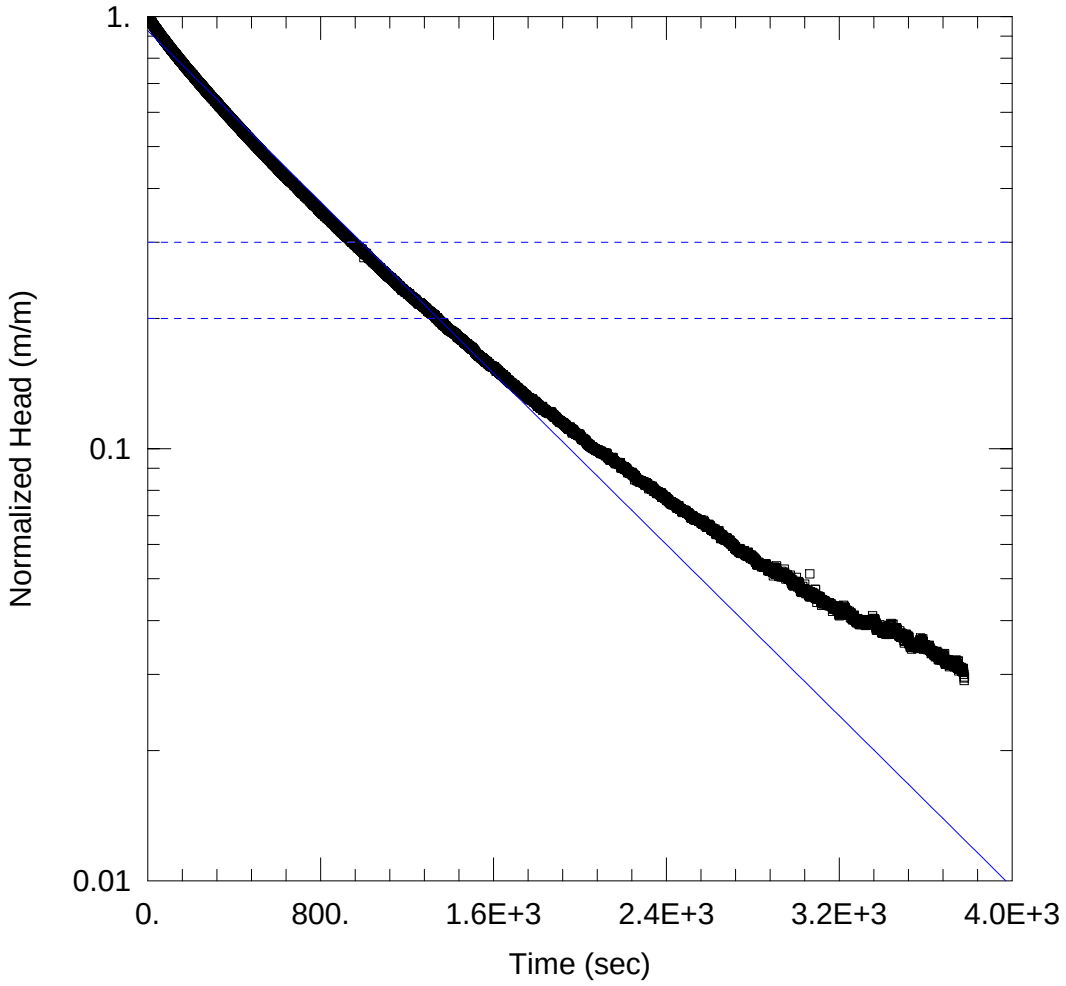
WELL DATA (AR-GWBH05)

Initial Displacement: 0.525 m
Total Well Penetration Depth: 6.99 m
Casing Radius: 0.025 m
Static Water Column Height: 6.99 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 2.853 m/day y0 = 0.4771 m



FALLING-HEAD 01

Data Set: \...\AR-GWBH06_FH01_BR.aqt
Date: 05/22/17 Time: 14:39:17

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH 06
Test Date: 06.03.2017

AQUIFER DATA

Saturated Thickness: 21.75 m Anisotropy Ratio (Kz/Kr): 0.2

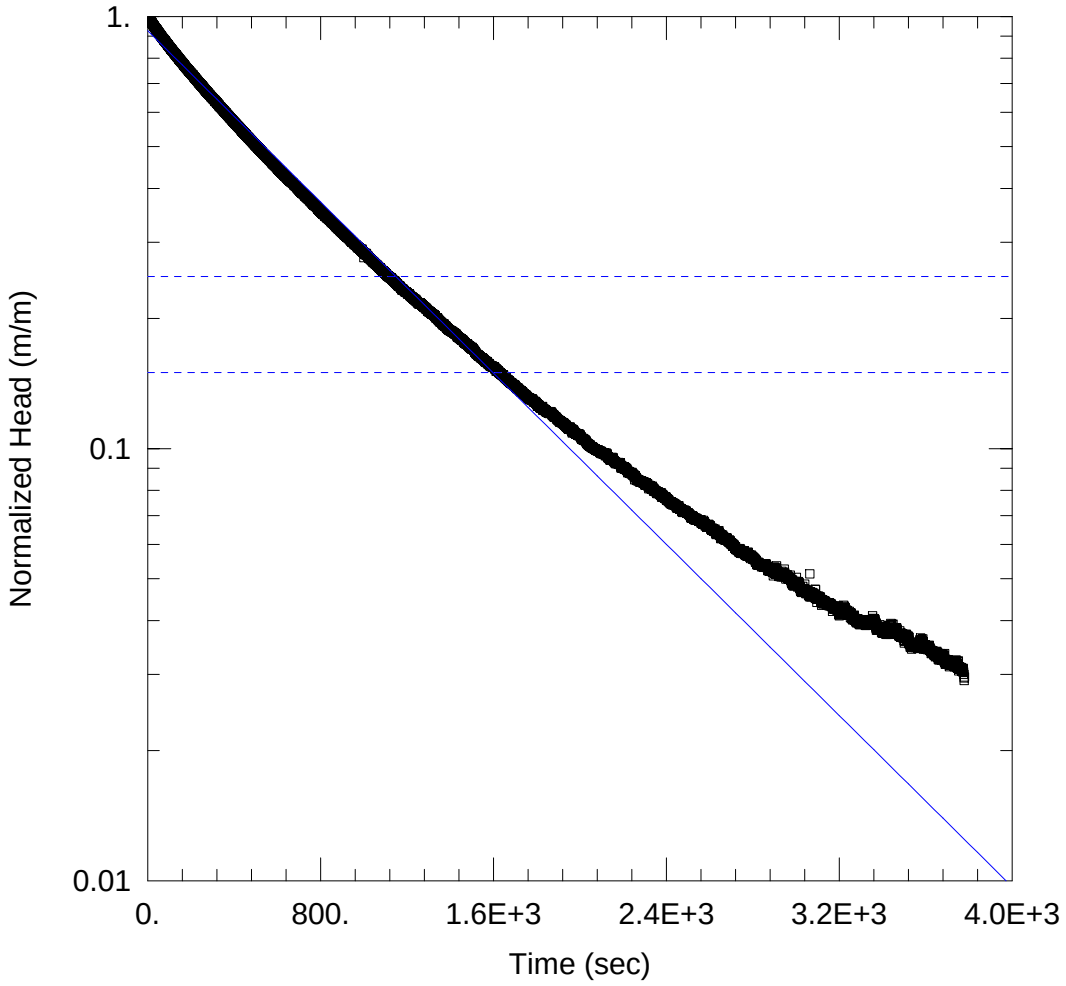
WELL DATA (Falling-Head 01)

Initial Displacement: 0.719 m
Total Well Penetration Depth: 16.76 m
Casing Radius: 0.025 m
Static Water Column Height: 16.76 m
Screen Length: 4. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.1582 m/day y0 = 0.6662 m



FALLING-HEAD 01

Data Set: \...\AR-GWBH06_FH01_Hv.aqt
Date: 05/22/17 Time: 14:39:12

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH 06
Test Date: 06.03.2017

AQUIFER DATA

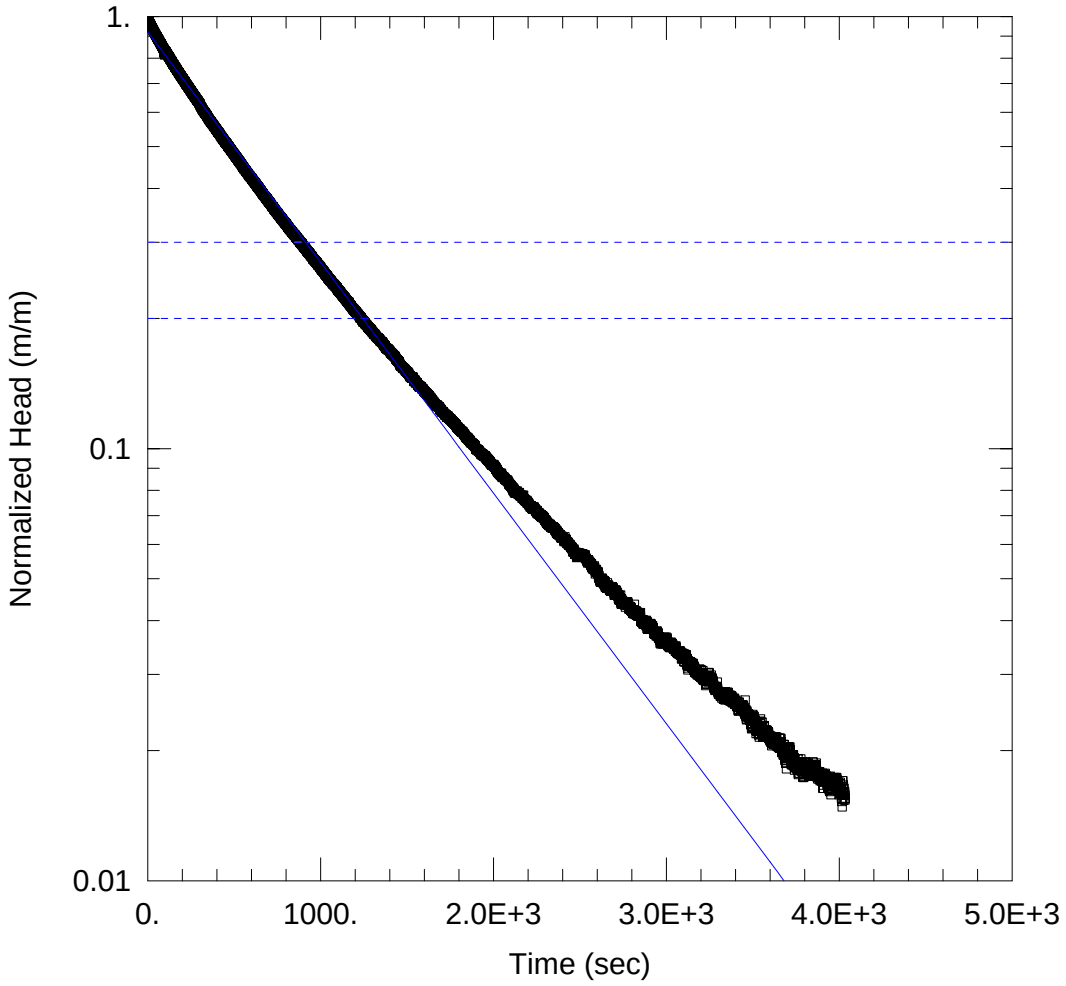
Saturated Thickness: 21.75 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (Falling-Head 01)

Initial Displacement: 0.719 m
Total Well Penetration Depth: 16.76 m
Casing Radius: 0.025 m
Static Water Column Height: 16.76 m
Screen Length: 4. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.1902 m/day
y0 = 0.666 m



FALLING-HEAD 01

Data Set: \...\AR-GWBH06_RH01_BR.aqt
Date: 05/22/17 Time: 14:39:07

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH 06
Test Date: 06.03.2017

AQUIFER DATA

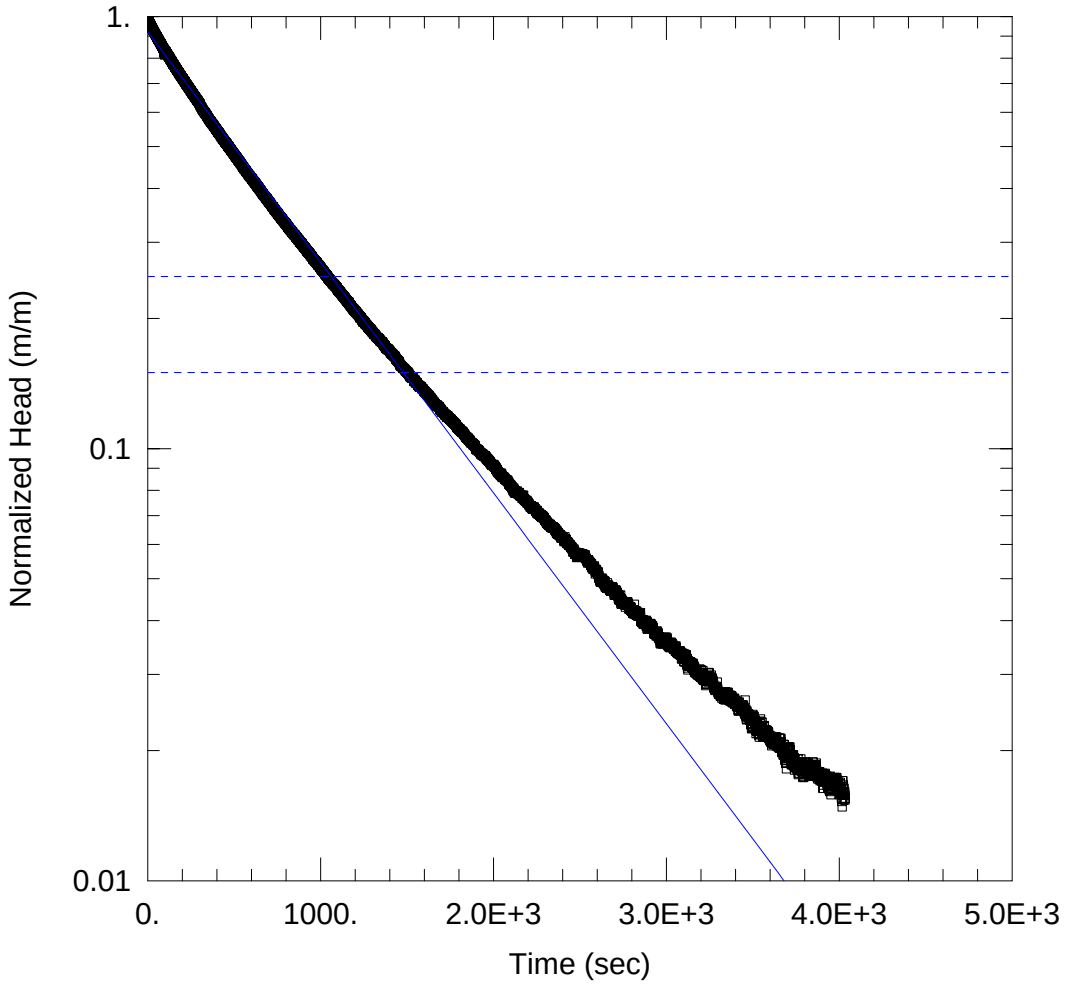
Saturated Thickness: 21.76 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (Falling-Head 01)

Initial Displacement: 0.7217 m
Total Well Penetration Depth: 16.76 m
Casing Radius: 0.025 m
Static Water Column Height: 16.76 m
Screen Length: 4. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.1705 m/day
y0 = 0.6648 m



FALLING-HEAD 01

Data Set: \...\AR-GWBH06_RH01_Hv.aqt
Date: 05/22/17 Time: 14:39:02

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: AR-GWBH 06
Test Date: 06.03.2017

AQUIFER DATA

Saturated Thickness: 21.76 m Anisotropy Ratio (Kz/Kr): 0.2

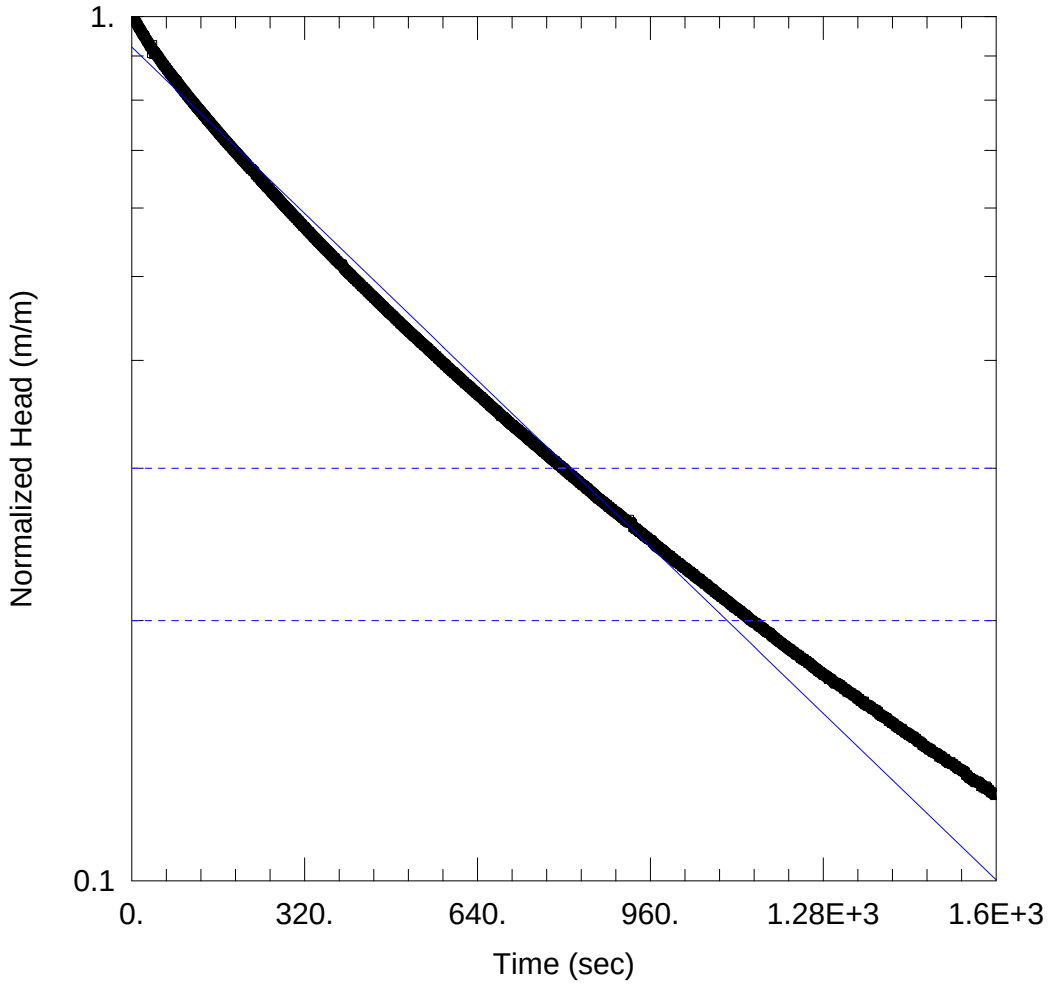
WELL DATA (Falling-Head 01)

Initial Displacement: 0.7217 m
Total Well Penetration Depth: 16.76 m
Casing Radius: 0.025 m
Static Water Column Height: 16.76 m
Screen Length: 4. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.205 m/day y0 = 0.6647 m



FALLING HEAD 01

Data Set: \...\ID03-GWBH05_FH01_BR.aqt
Date: 05/22/17 Time: 14:44:06

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH05
Test Date: 05/04/2017

AQUIFER DATA

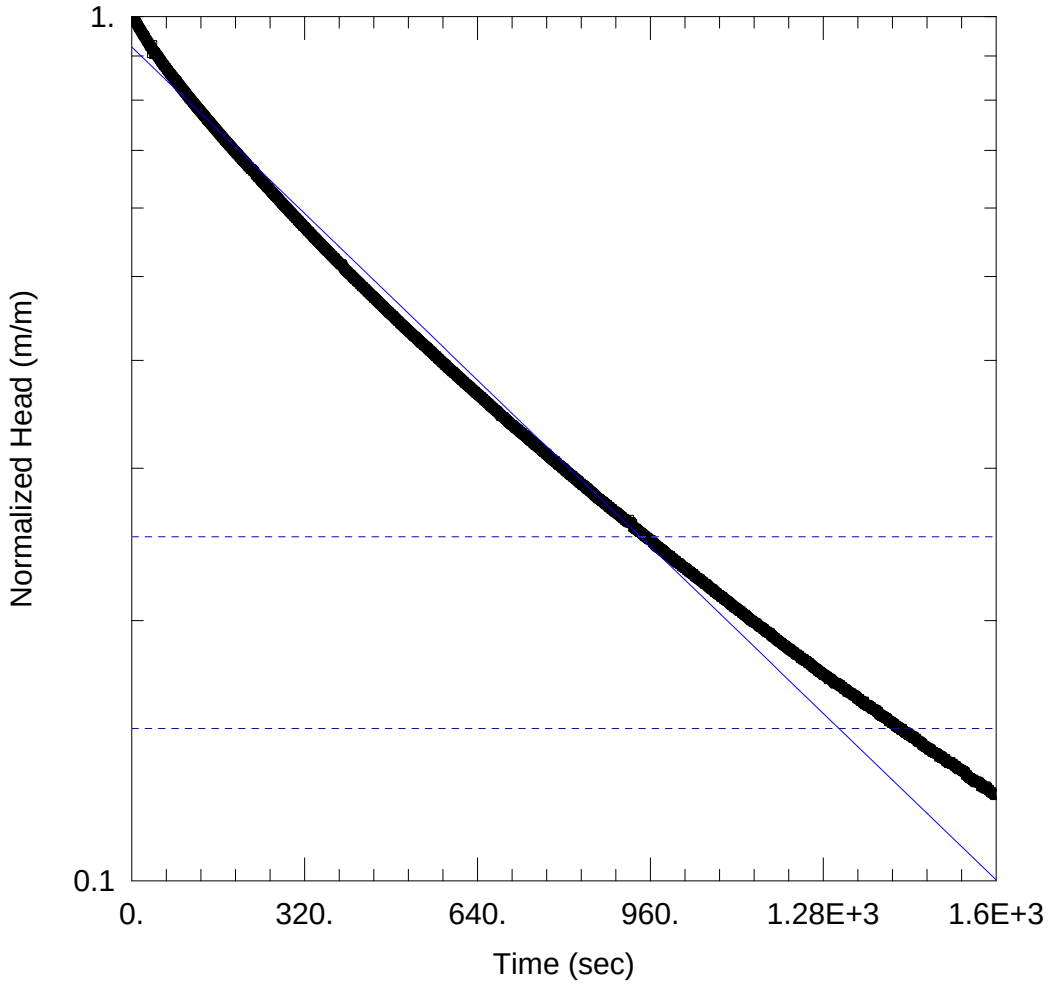
Saturated Thickness: 14.81 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH05)

Initial Displacement: 0.694 m
Total Well Penetration Depth: 9.593 m
Casing Radius: 0.025 m
Static Water Column Height: 9.806 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.2298 m/day
y0 = 0.64 m



FALLING HEAD 01

Data Set: \...\ID03-GWBH05_FH01_Hv.aqt
Date: 05/22/17 Time: 14:44:00

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH05
Test Date: 05/04/2017

AQUIFER DATA

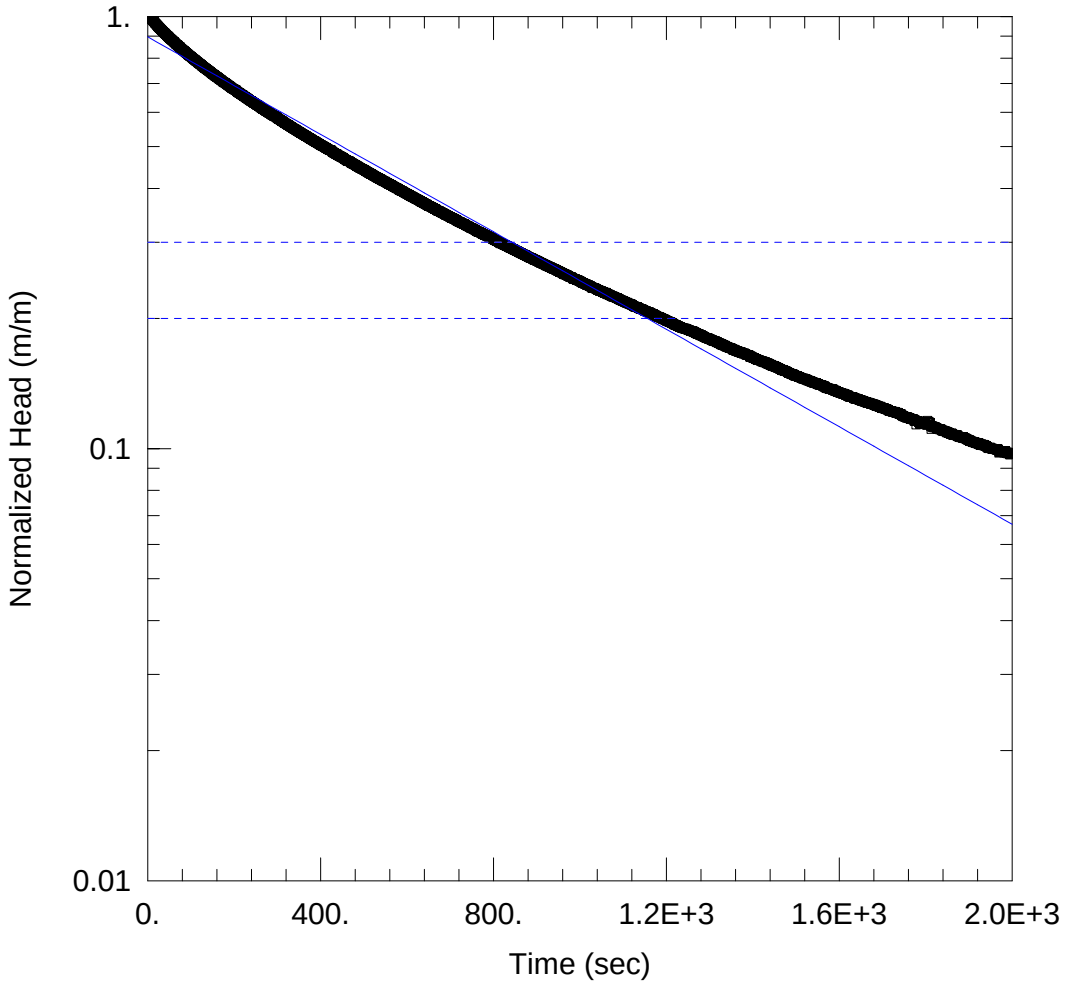
Saturated Thickness: 14.81 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH05)

Initial Displacement: 0.694 m
Total Well Penetration Depth: 9.593 m
Casing Radius: 0.025 m
Static Water Column Height: 9.806 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.2888 m/day
y0 = 0.64 m



FALLING HEAD 02

Data Set: \...\ID03-GWBH05_FH02_BR.aqt
Date: 05/22/17 Time: 14:43:55

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH05
Test Date: 05/04/2017

AQUIFER DATA

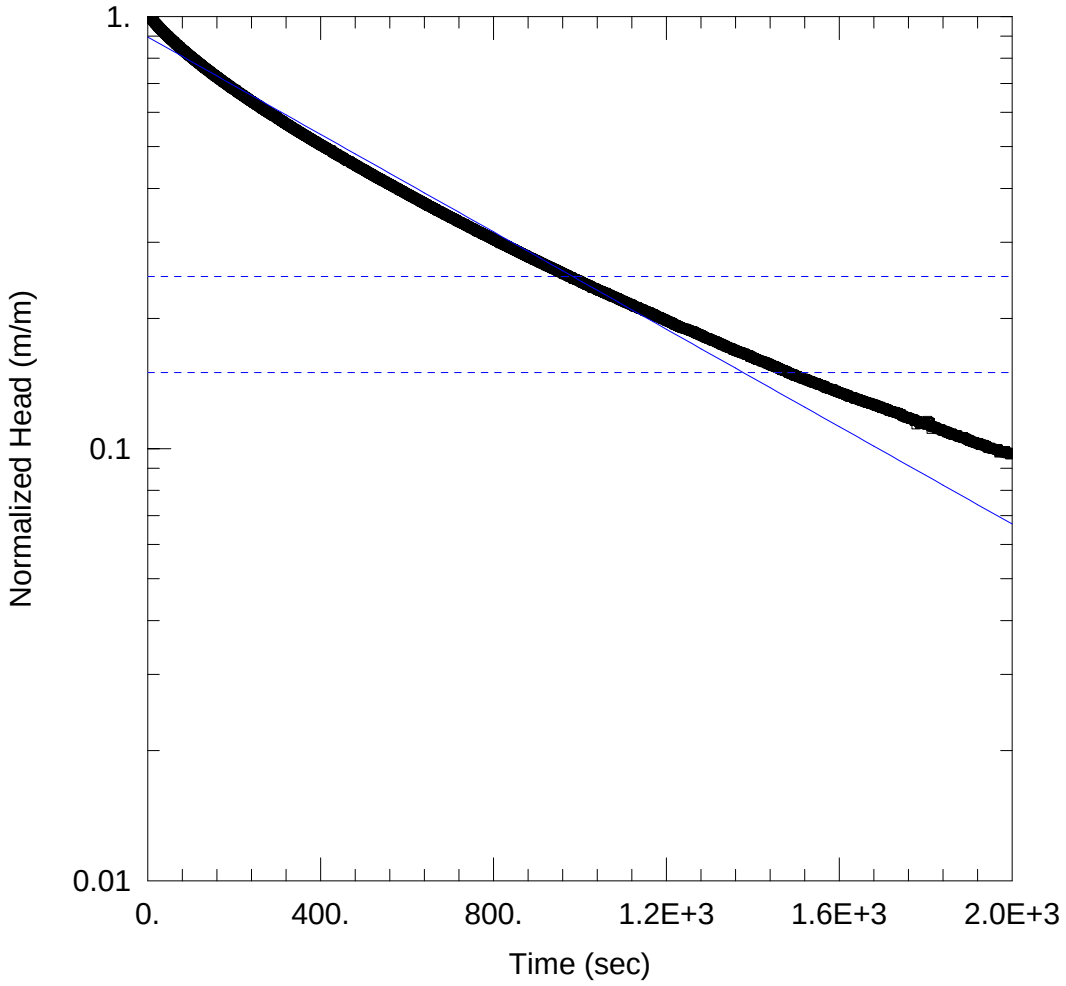
Saturated Thickness: 14.81 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH05)

Initial Displacement: 0.676 m
Total Well Penetration Depth: 9.593 m
Casing Radius: 0.025 m
Static Water Column Height: 9.806 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.2151 m/day
y0 = 0.6062 m



FALLING HEAD 02

Data Set: \...\ID03-GWBH05_FH02_Hv.aqt
Date: 05/22/17 Time: 14:43:50

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH05
Test Date: 05/04/2017

AQUIFER DATA

Saturated Thickness: 14.81 m Anisotropy Ratio (Kz/Kr): 0.2

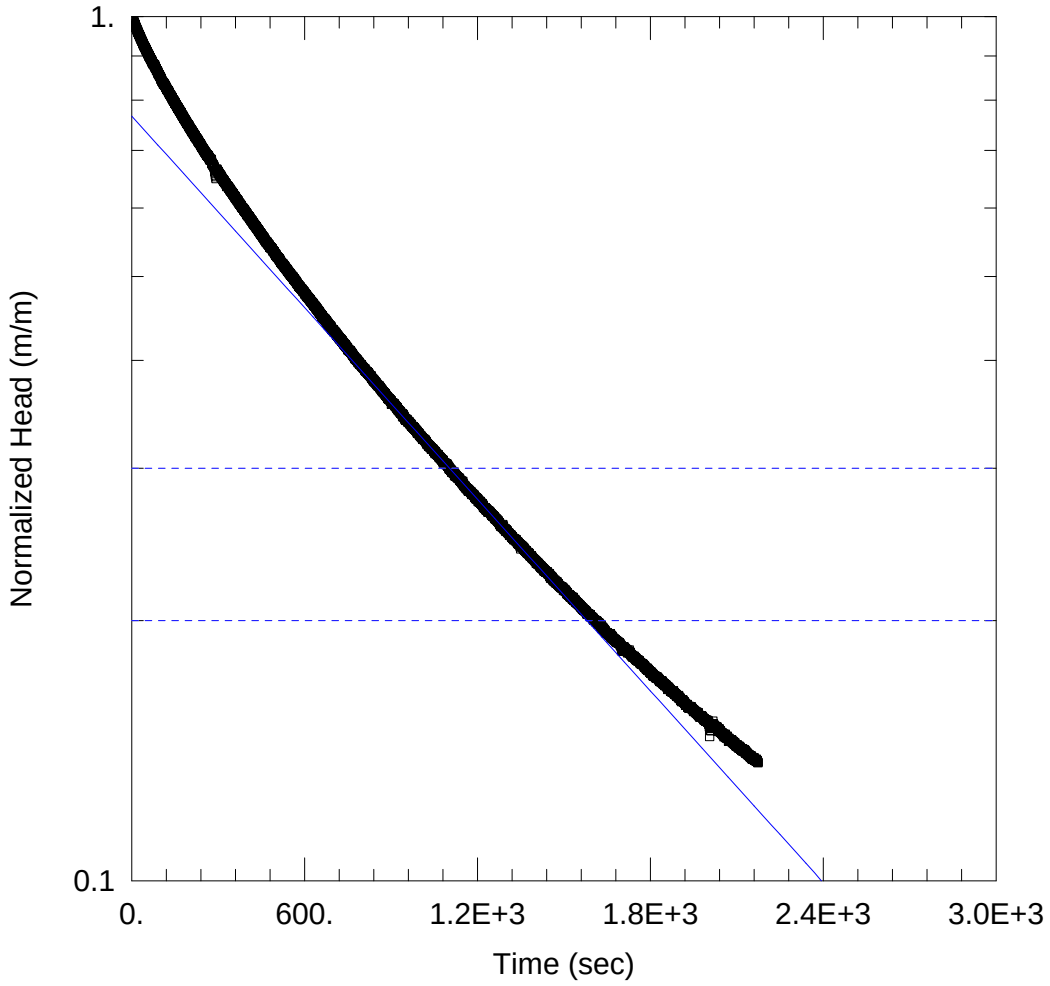
WELL DATA (ID03-GWBH05)

Initial Displacement: 0.676 m
Total Well Penetration Depth: 9.593 m
Casing Radius: 0.025 m
Static Water Column Height: 9.806 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.2702 m/day y0 = 0.606 m



RISING HEAD 01

Data Set: \...\ID03-GWBH05_RH01_BR.aqt
Date: 05/22/17 Time: 14:43:46

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH05
Test Date: 05/04/2017

AQUIFER DATA

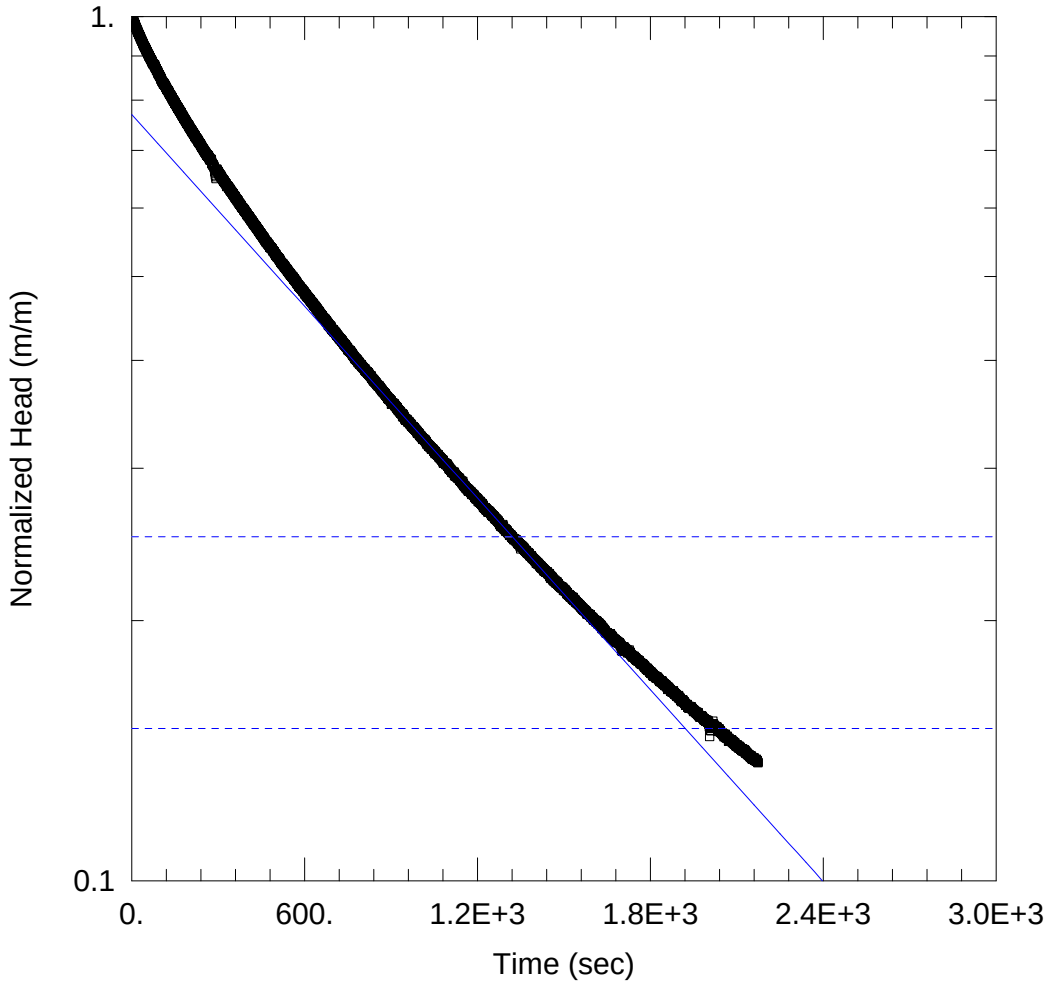
Saturated Thickness: 14.81 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH05)

Initial Displacement: 0.66 m
Total Well Penetration Depth: 9.593 m
Casing Radius: 0.025 m
Static Water Column Height: 9.806 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.1409 m/day
y0 = 0.5061 m



RISING HEAD 01

Data Set: \...\ID03-GWBH05_RH01_Hv.aqt
Date: 05/22/17 Time: 14:43:41

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH05
Test Date: 05/04/2017

AQUIFER DATA

Saturated Thickness: 14.81 m Anisotropy Ratio (Kz/Kr): 0.2

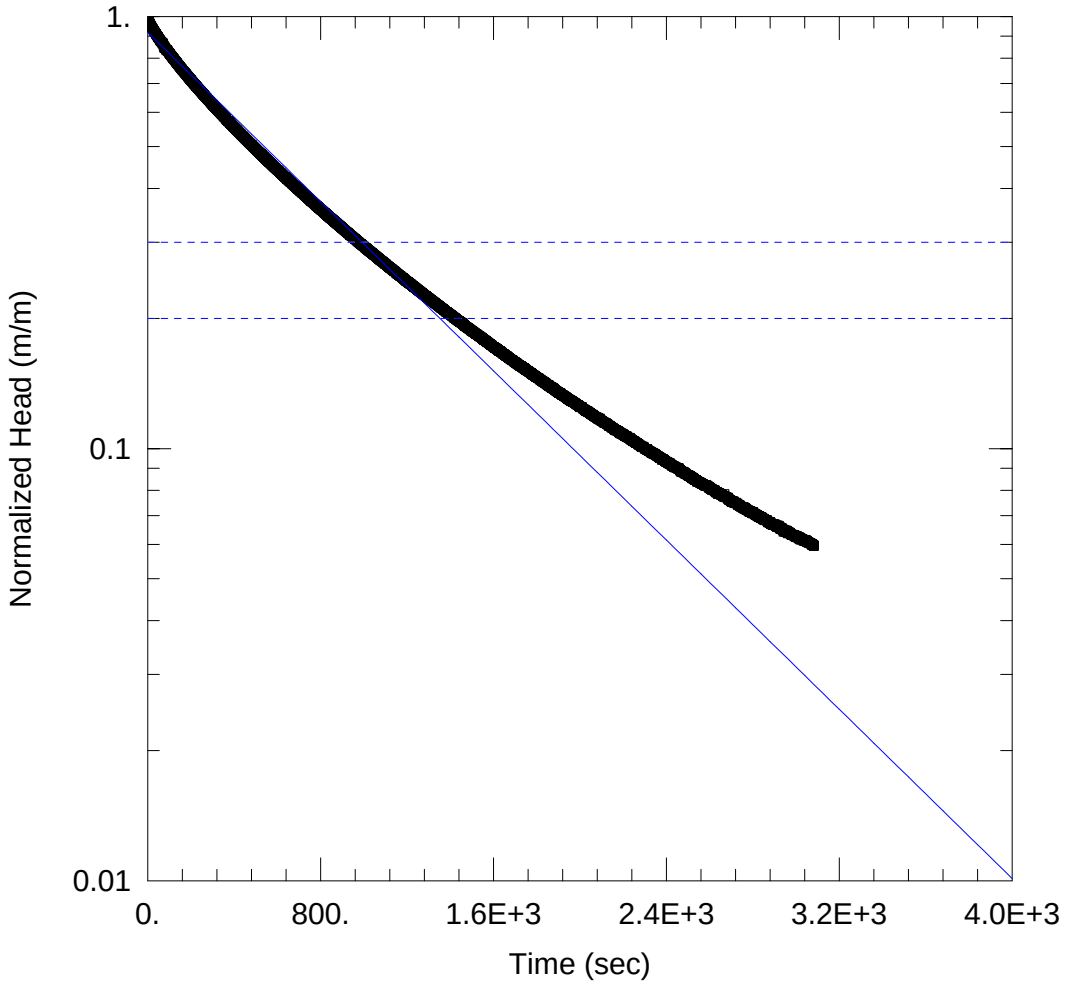
WELL DATA (ID03-GWBH05)

Initial Displacement: 0.66 m
Total Well Penetration Depth: 9.593 m
Casing Radius: 0.025 m
Static Water Column Height: 9.806 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.1773 m/day y0 = 0.508 m



RISING HEAD 02

Data Set: \...\ID03-GWBH05_RH02_BR.aqt
Date: 05/22/17 Time: 14:43:35

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH05
Test Date: 05/04/2017

AQUIFER DATA

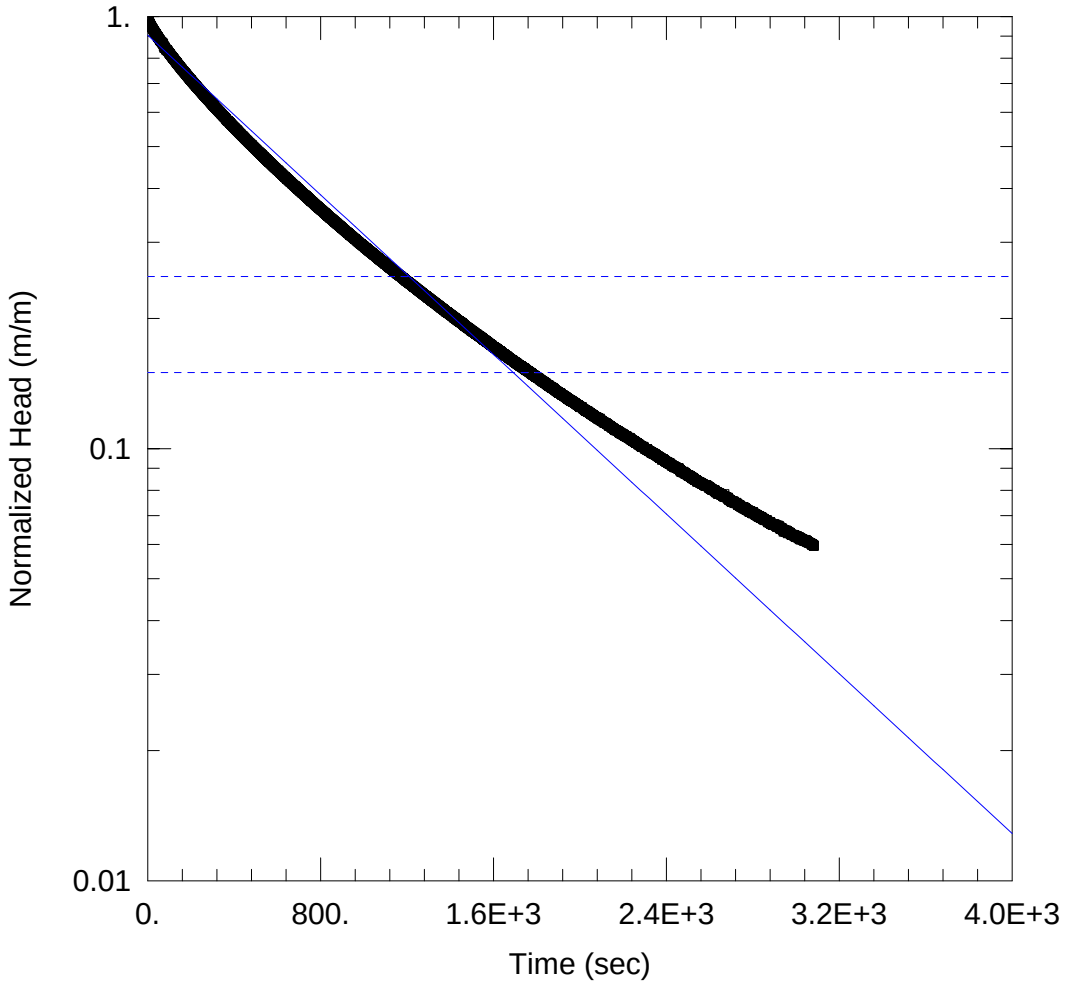
Saturated Thickness: 14.81 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH05)

Initial Displacement: 0.681 m
Total Well Penetration Depth: 9.593 m
Casing Radius: 0.025 m
Static Water Column Height: 9.806 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.1867 m/day
y0 = 0.6253 m



RISING HEAD 02

Data Set: \...\ID03-GWBH05_RH02_Hv.aqt
Date: 05/22/17 Time: 14:43:31

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH05
Test Date: 05/04/2017

AQUIFER DATA

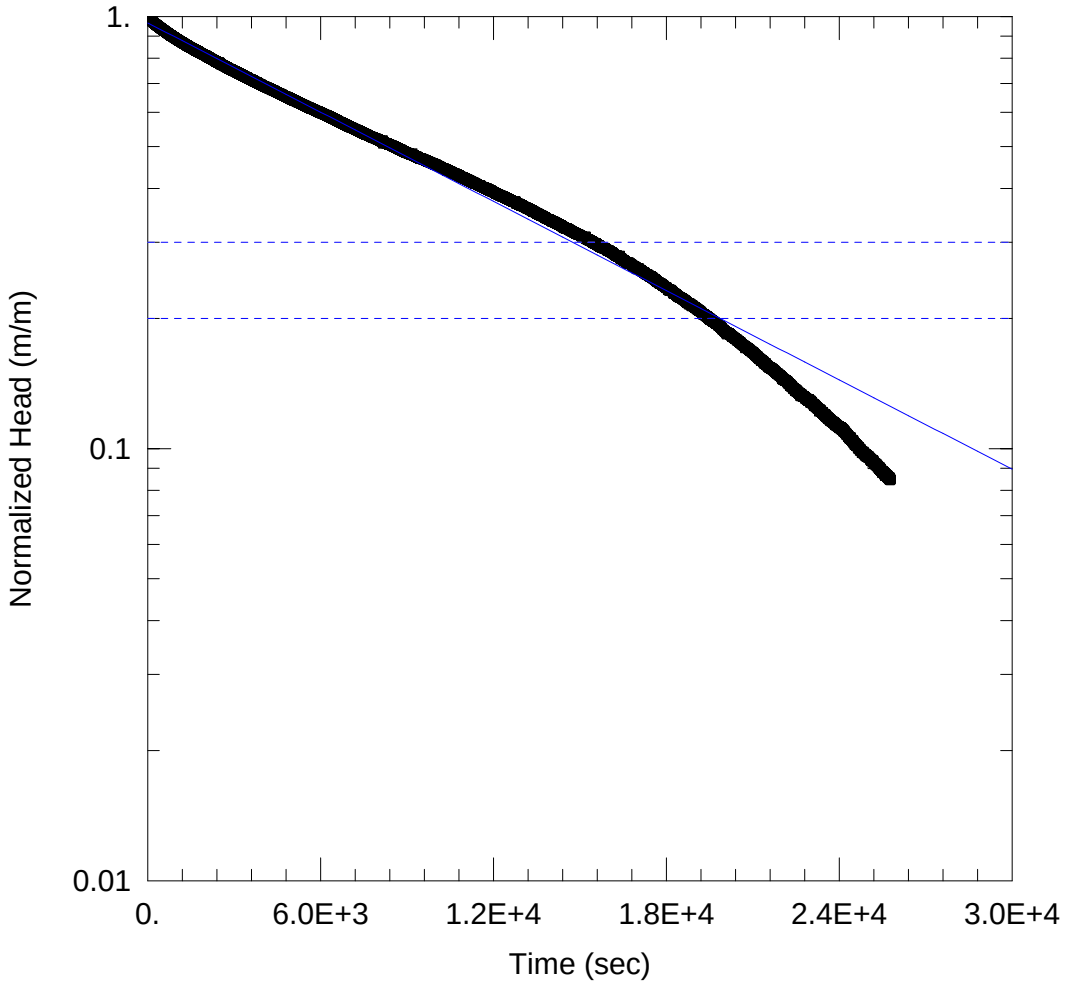
Saturated Thickness: 14.81 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH05)

Initial Displacement: 0.681 m
Total Well Penetration Depth: 9.593 m
Casing Radius: 0.025 m
Static Water Column Height: 9.806 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.2214 m/day
y0 = 0.6165 m



FALLING-HEAD 01

Data Set: \...\ID03-GWBH06 FH01_BR.aqt
Date: 05/22/17 Time: 14:46:29

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH06
Test Date: 05/04/2017

AQUIFER DATA

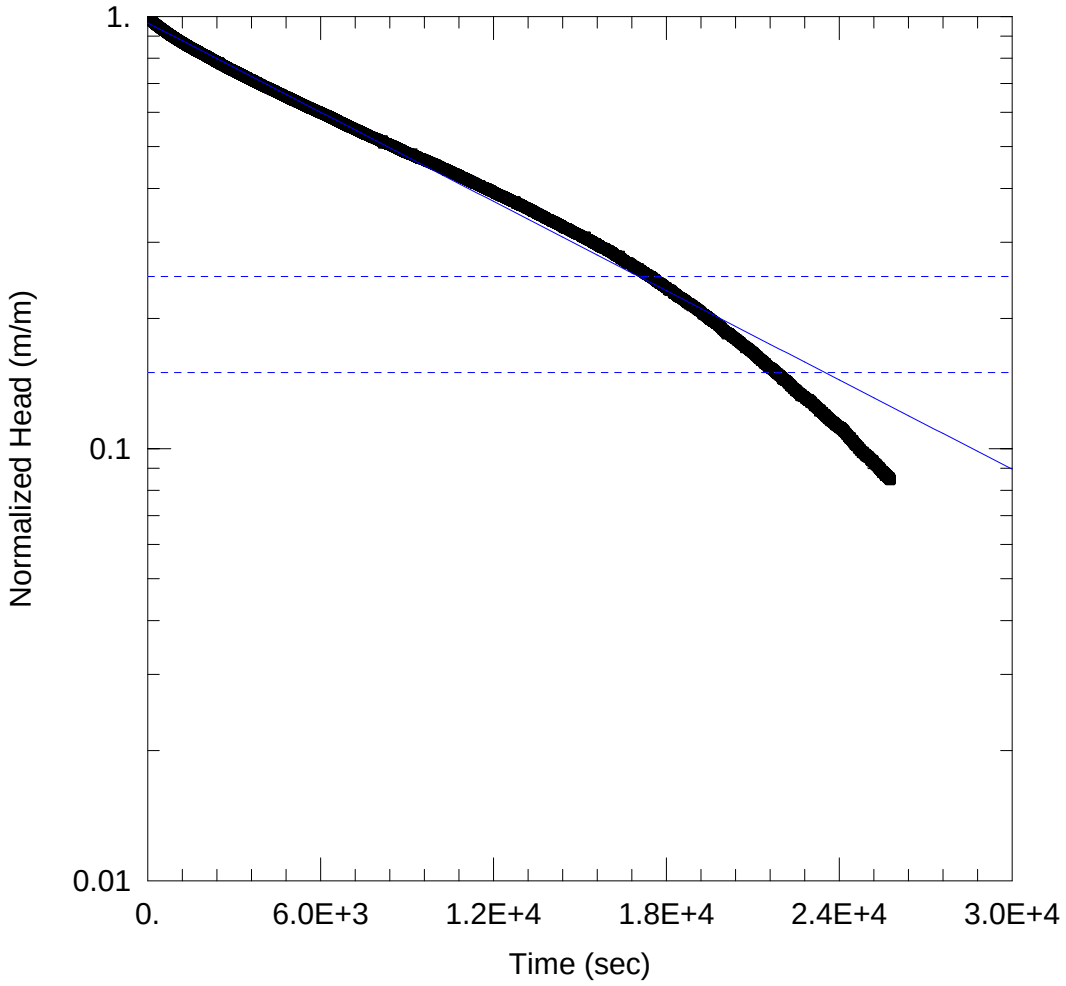
Saturated Thickness: 28.61 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH06)

Initial Displacement: 0.4312 m
Total Well Penetration Depth: 23.61 m
Casing Radius: 0.025 m
Static Water Column Height: 23.61 m
Screen Length: 3.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.01281 m/day
y0 = 0.4166 m



FALLING-HEAD 01

Data Set: \...\ID03-GWBH06 FH01_Hv.aqt
Date: 05/22/17 Time: 14:46:22

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH06
Test Date: 05/04/2017

AQUIFER DATA

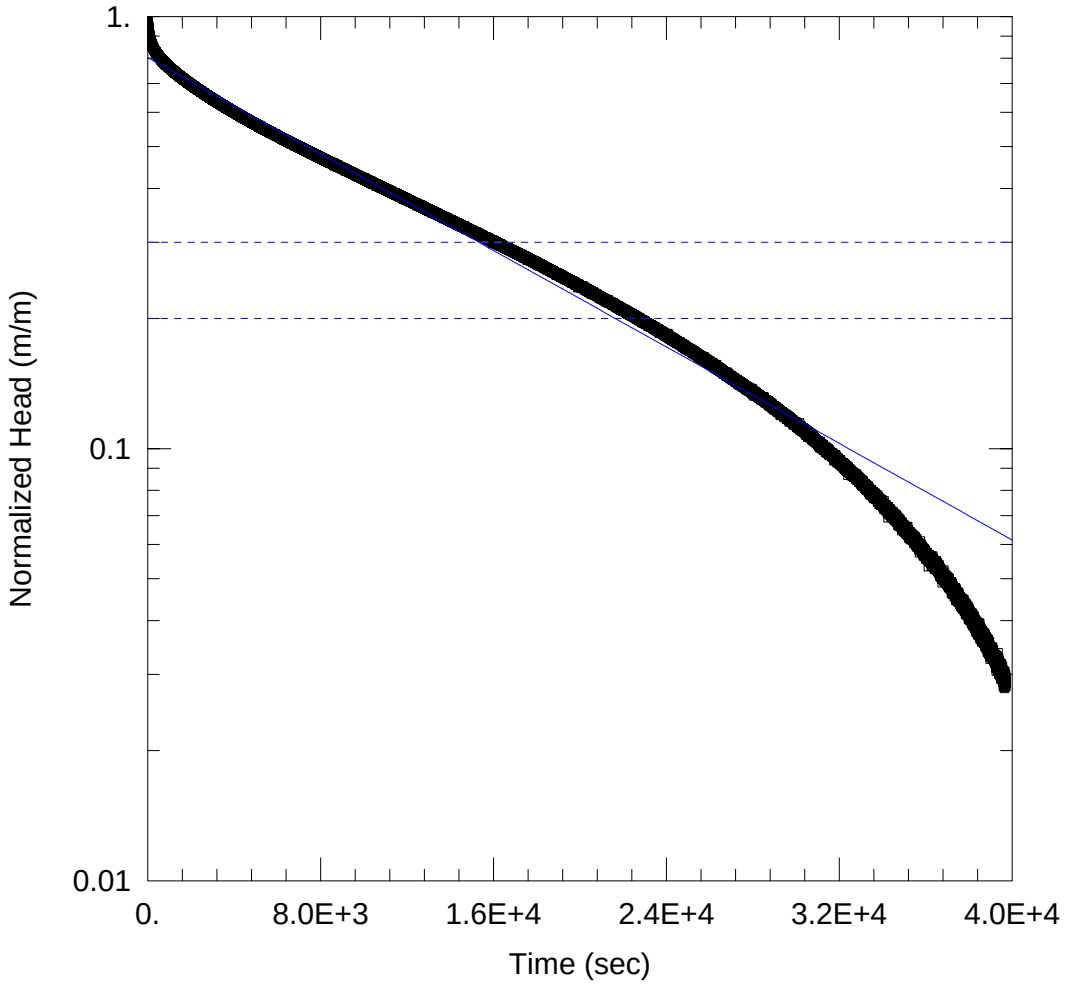
Saturated Thickness: 28.61 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH06)

Initial Displacement: 0.4312 m
Total Well Penetration Depth: 23.61 m
Casing Radius: 0.025 m
Static Water Column Height: 23.61 m
Screen Length: 3.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.01467 m/day
y0 = 0.4166 m



FALLING-HEAD 02

Data Set: \...\ID03-GWBH06 FH02_BR.aqt
Date: 05/22/17 Time: 14:46:14

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH06
Test Date: 05/04/2017

AQUIFER DATA

Saturated Thickness: 28.61 m Anisotropy Ratio (Kz/Kr): 0.2

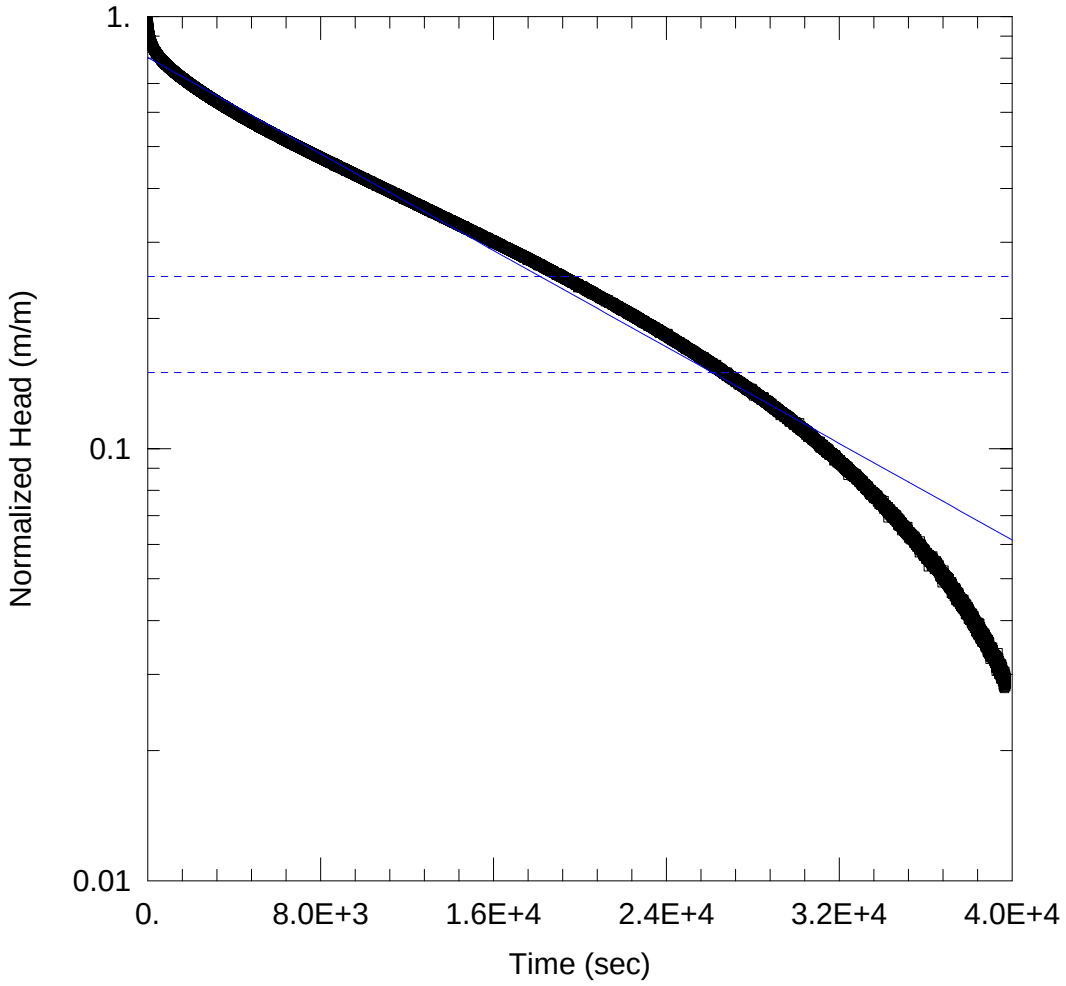
WELL DATA (ID03-GWBH06)

Initial Displacement: 0.4091 m
Total Well Penetration Depth: 23.61 m
Casing Radius: 0.025 m
Static Water Column Height: 23.61 m
Screen Length: 3.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.01039 m/day
y0 = 0.3287 m



FALLING-HEAD 02

Data Set: \...\ID03-GWBH06 FH02_Hv.aqt
Date: 05/22/17 Time: 14:46:03

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH06
Test Date: 05/04/2017

AQUIFER DATA

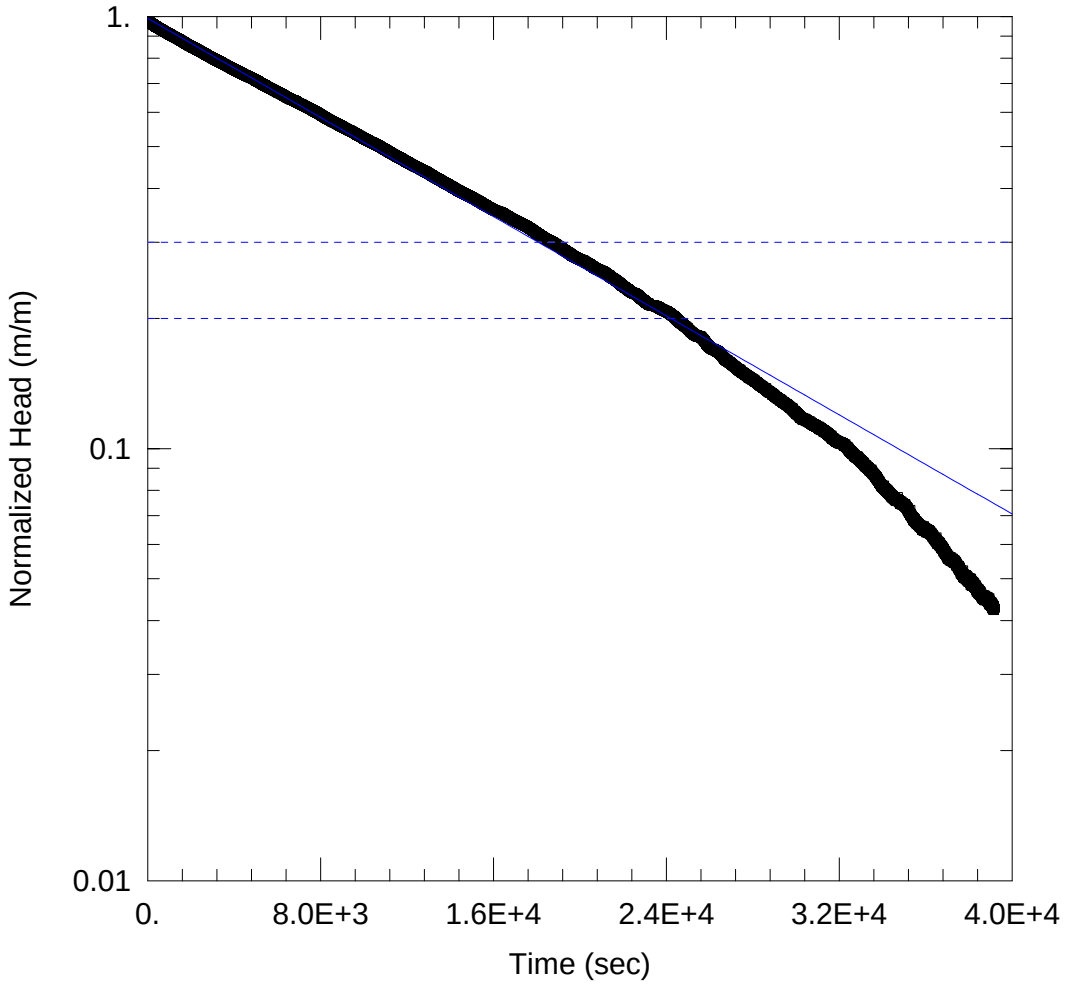
Saturated Thickness: 28.61 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH06)

Initial Displacement: 0.4091 m
Total Well Penetration Depth: 23.61 m
Casing Radius: 0.025 m
Static Water Column Height: 23.61 m
Screen Length: 3.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.01189 m/day
y0 = 0.3287 m



RISING-HEAD 01

Data Set: \...\ID03-GWBH06 RH01_BR.aqt
Date: 05/22/17 Time: 21:24:22

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH06
Test Date: 26/04/2017

AQUIFER DATA

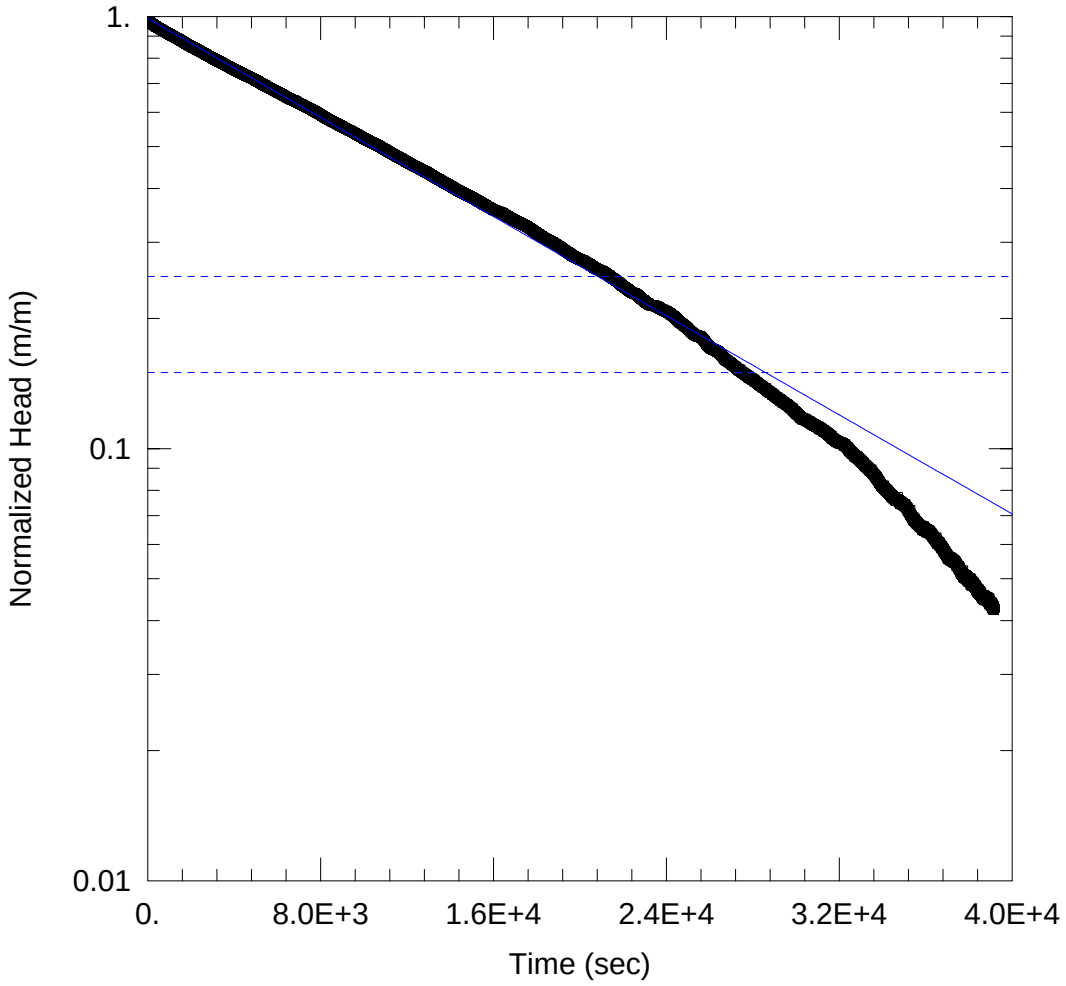
Saturated Thickness: 28.61 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH06)

Initial Displacement: 0.4875 m
Total Well Penetration Depth: 23.61 m
Casing Radius: 0.025 m
Static Water Column Height: 23.61 m
Screen Length: 3.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.01067 m/day
y0 = 0.4824 m



RISING-HEAD 01

Data Set: \...\ID03-GWBH06 RH01_Hv.aqt
Date: 05/22/17 Time: 21:25:14

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH06
Test Date: 26/04/2017

AQUIFER DATA

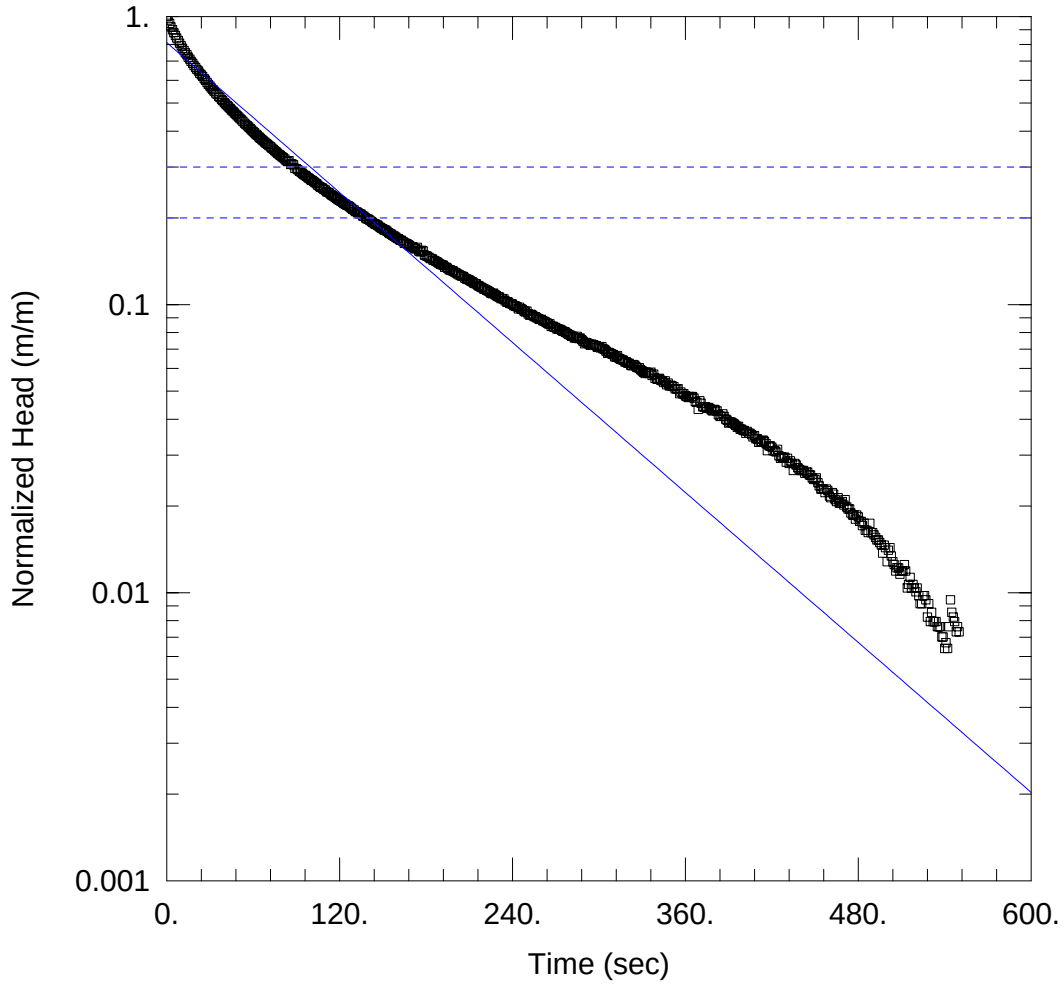
Saturated Thickness: 28.61 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH06)

Initial Displacement: 0.4875 m
Total Well Penetration Depth: 23.61 m
Casing Radius: 0.025 m
Static Water Column Height: 23.61 m
Screen Length: 3.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.01221 m/day
y0 = 0.4824 m



FALLING HEAD 01

Data Set: \...\ID03-GWBH07_FH01_BR.aqt
Date: 05/22/17 Time: 14:53:42

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH07
Test Date: 04/04/2017

AQUIFER DATA

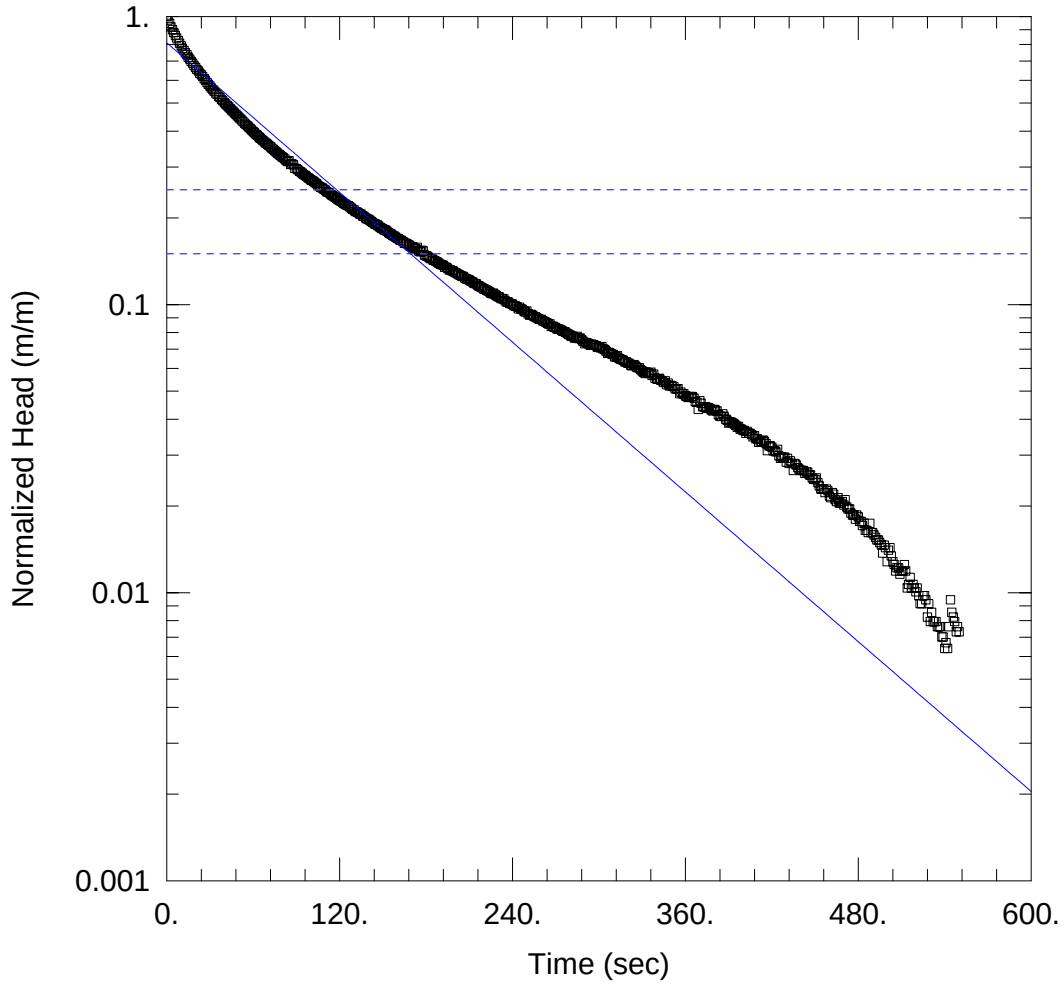
Saturated Thickness: 9.488 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH07)

Initial Displacement: 0.328 m
Total Well Penetration Depth: 4.488 m
Casing Radius: 0.025 m
Static Water Column Height: 4.488 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 1.488 m/day
y0 = 0.2661 m



FALLING HEAD 01

Data Set: \...\ID03-GWBH07_FH01_Hv.aqt
Date: 05/22/17 Time: 14:53:38

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH07
Test Date: 04/04/2017

AQUIFER DATA

Saturated Thickness: 9.488 m Anisotropy Ratio (Kz/Kr): 0.2

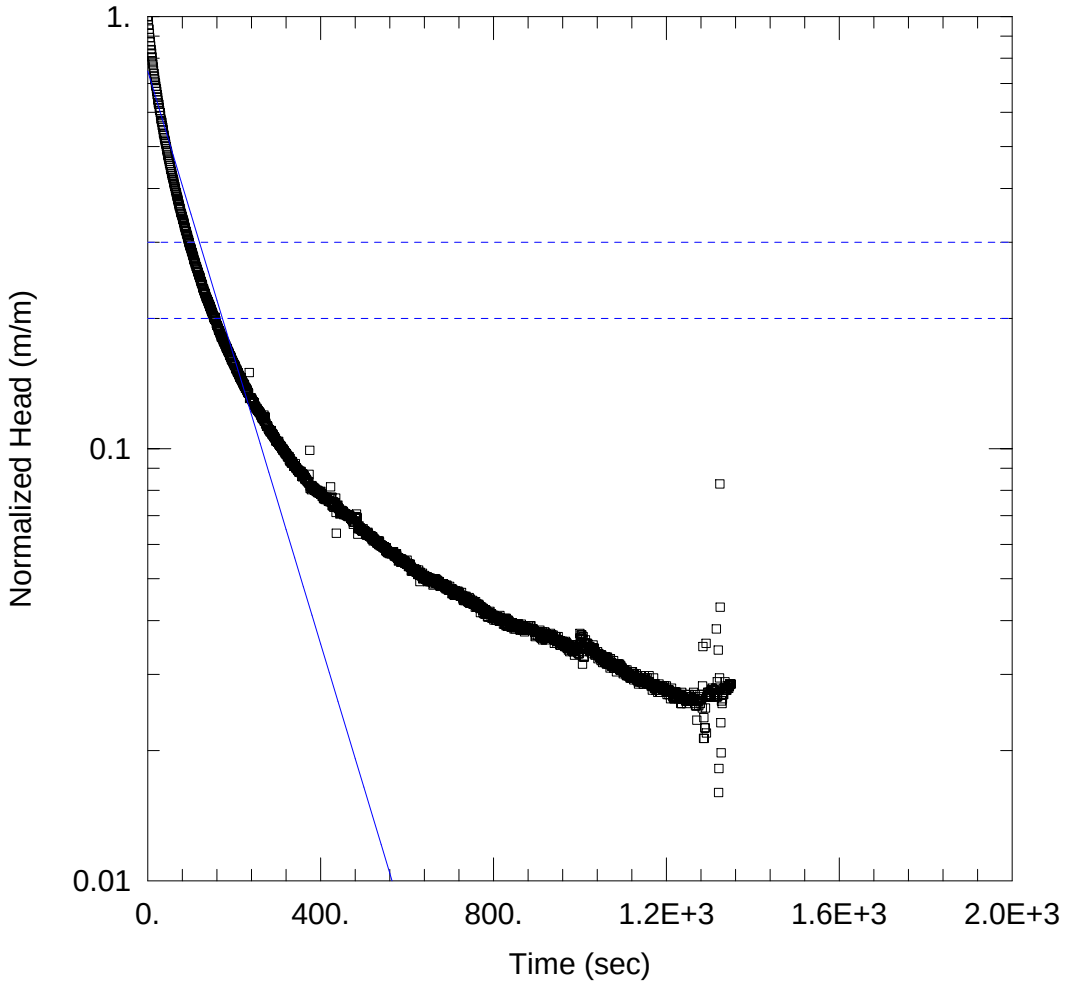
WELL DATA (ID03-GWBH07)

Initial Displacement: 0.328 m
Total Well Penetration Depth: 4.488 m
Casing Radius: 0.025 m
Static Water Column Height: 4.488 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 2.077 m/day y0 = 0.2659 m



FALLING HEAD 02

Data Set: \...\ID03-GWBH07_FH02_BR.aqt
Date: 05/22/17 Time: 14:53:32

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH07
Test Date: 04/04/2017

AQUIFER DATA

Saturated Thickness: 9.488 m Anisotropy Ratio (Kz/Kr): 0.2

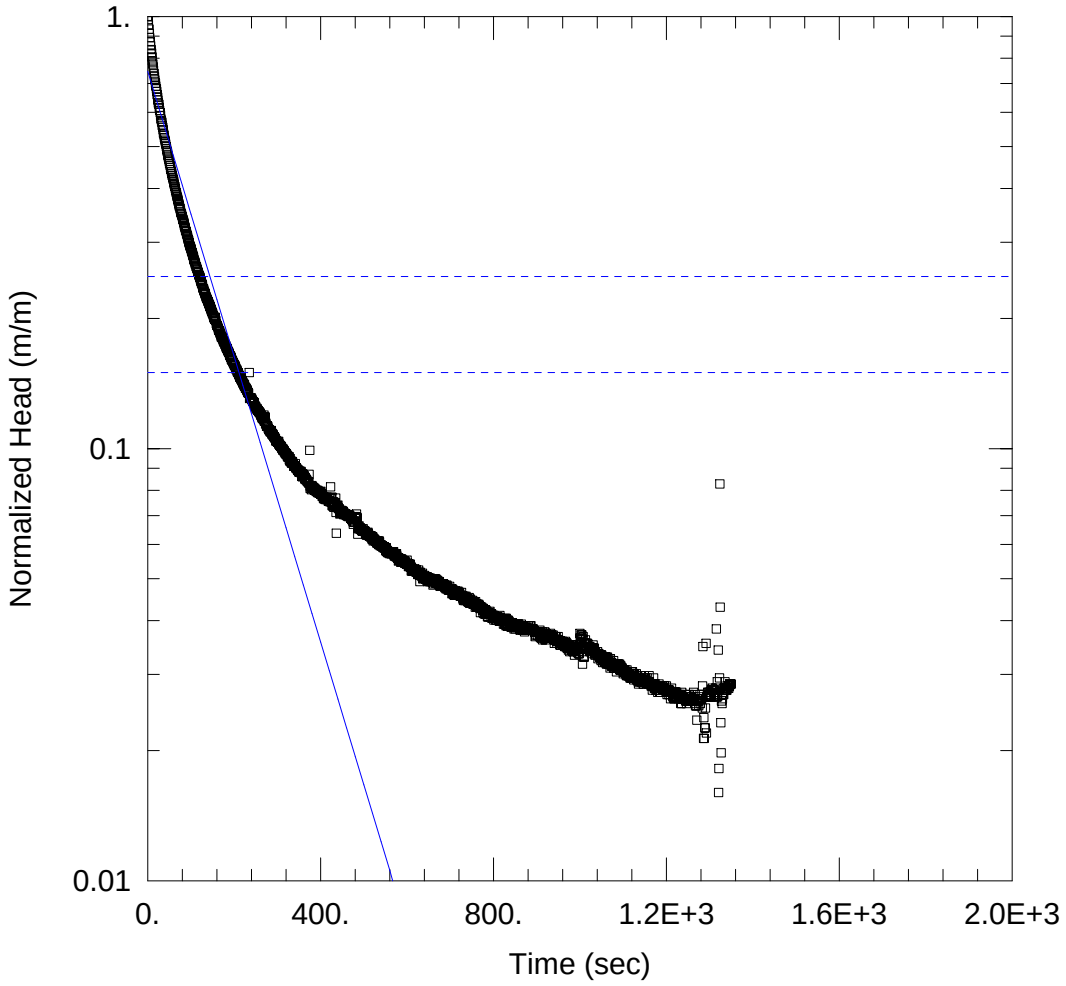
WELL DATA (ID03-GWBH07)

Initial Displacement: 0.3188 m
Total Well Penetration Depth: 4.488 m
Casing Radius: 0.025 m
Static Water Column Height: 4.488 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 1.137 m/day
y0 = 0.2385 m



FALLING HEAD 02

Data Set: \...\ID03-GWBH07_FH02_Hv.aqt
Date: 05/22/17 Time: 14:53:22

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH07
Test Date: 04/04/2017

AQUIFER DATA

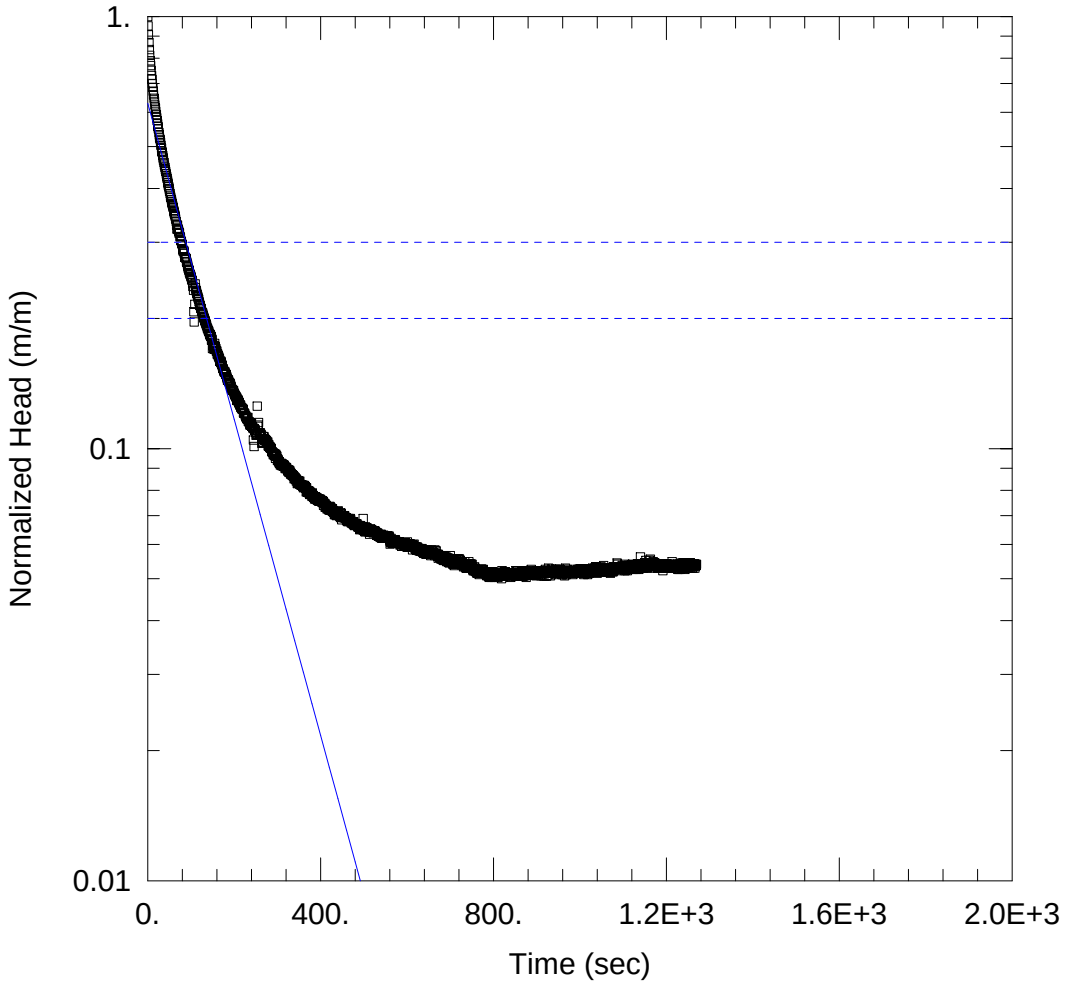
Saturated Thickness: 9.488 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH07)

Initial Displacement: 0.3188 m
Total Well Penetration Depth: 4.488 m
Casing Radius: 0.025 m
Static Water Column Height: 4.488 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 1.583 m/day
y0 = 0.2381 m



RISING HEAD 01

Data Set: \...\ID03-GWBH07_RH01_BR.aqt
Date: 05/22/17 Time: 14:53:14

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH07
Test Date: 04/04/2017

AQUIFER DATA

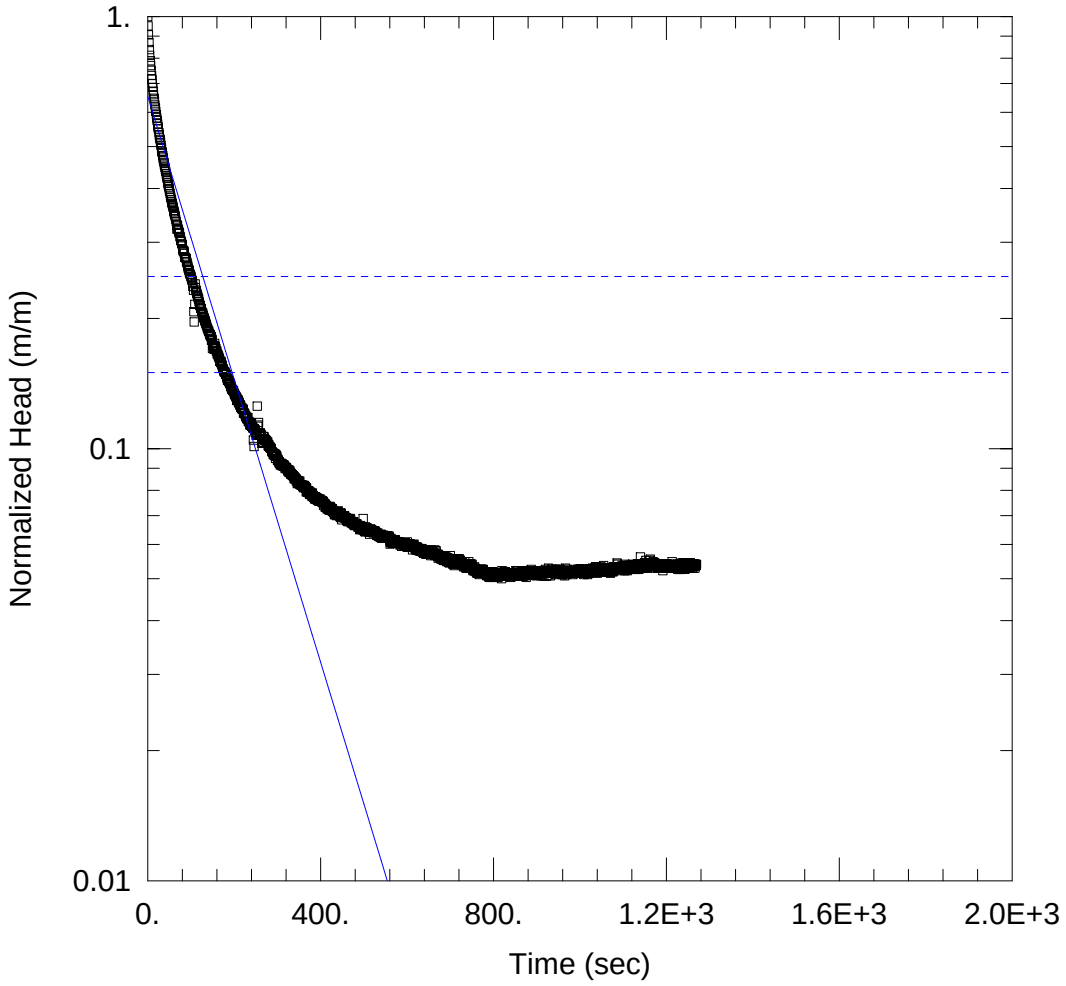
Saturated Thickness: 9.488 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH07)

Initial Displacement: 0.276 m
Total Well Penetration Depth: 4.488 m
Casing Radius: 0.025 m
Static Water Column Height: 4.488 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 1.255 m/day
y0 = 0.1738 m



RISING HEAD 01

Data Set: \...\ID03-GWBH07_RH01_Hv.aqt
Date: 05/22/17 Time: 14:52:56

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH07
Test Date: 04/04/2017

AQUIFER DATA

Saturated Thickness: 9.488 m Anisotropy Ratio (Kz/Kr): 0.2

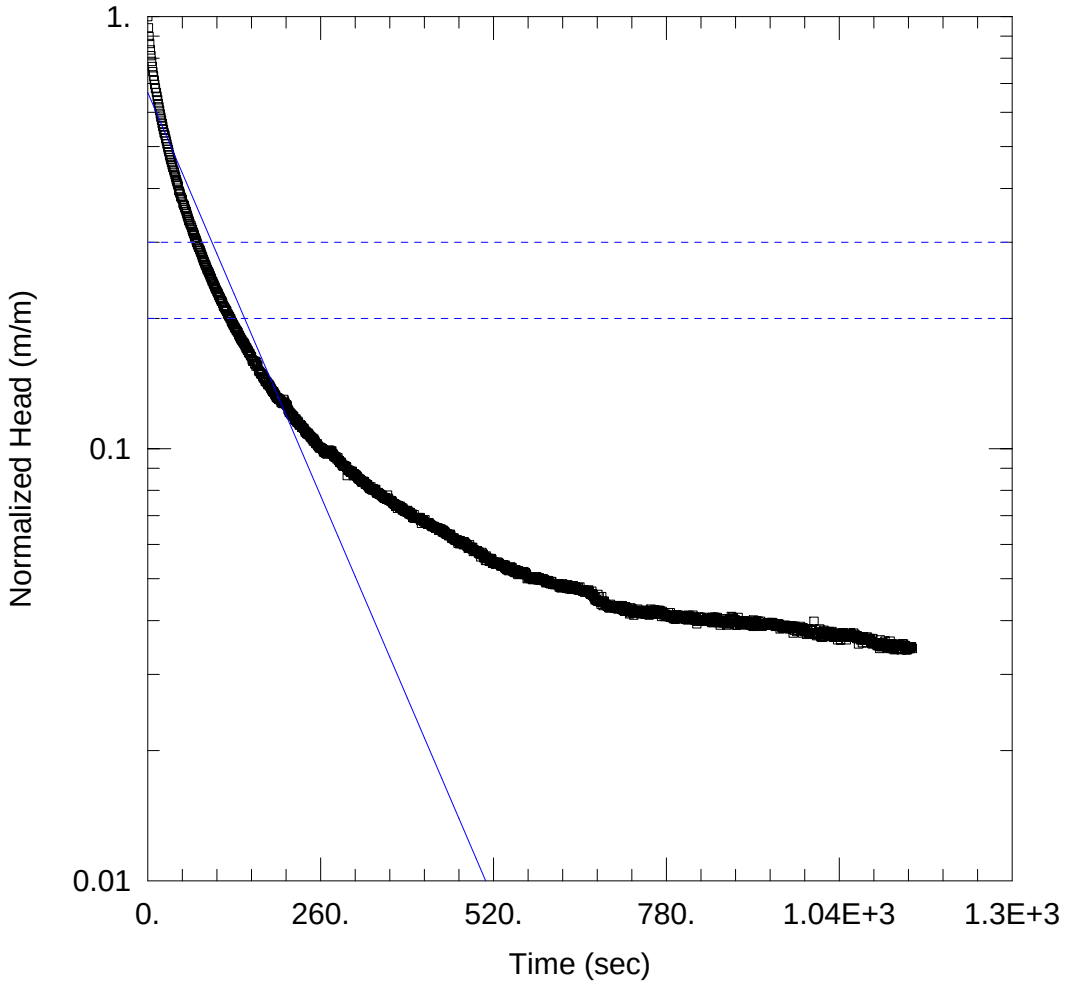
WELL DATA (ID03-GWBH07)

Initial Displacement: 0.276 m
Total Well Penetration Depth: 4.488 m
Casing Radius: 0.025 m
Static Water Column Height: 4.488 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 1.57 m/day y0 = 0.1804 m



RISING HEAD 02

Data Set: \...\ID03-GWBH07_RH02_BR.aqt
Date: 05/22/17 Time: 14:52:51

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH07
Test Date: 04/04/2017

AQUIFER DATA

Saturated Thickness: 9.488 m Anisotropy Ratio (Kz/Kr): 0.2

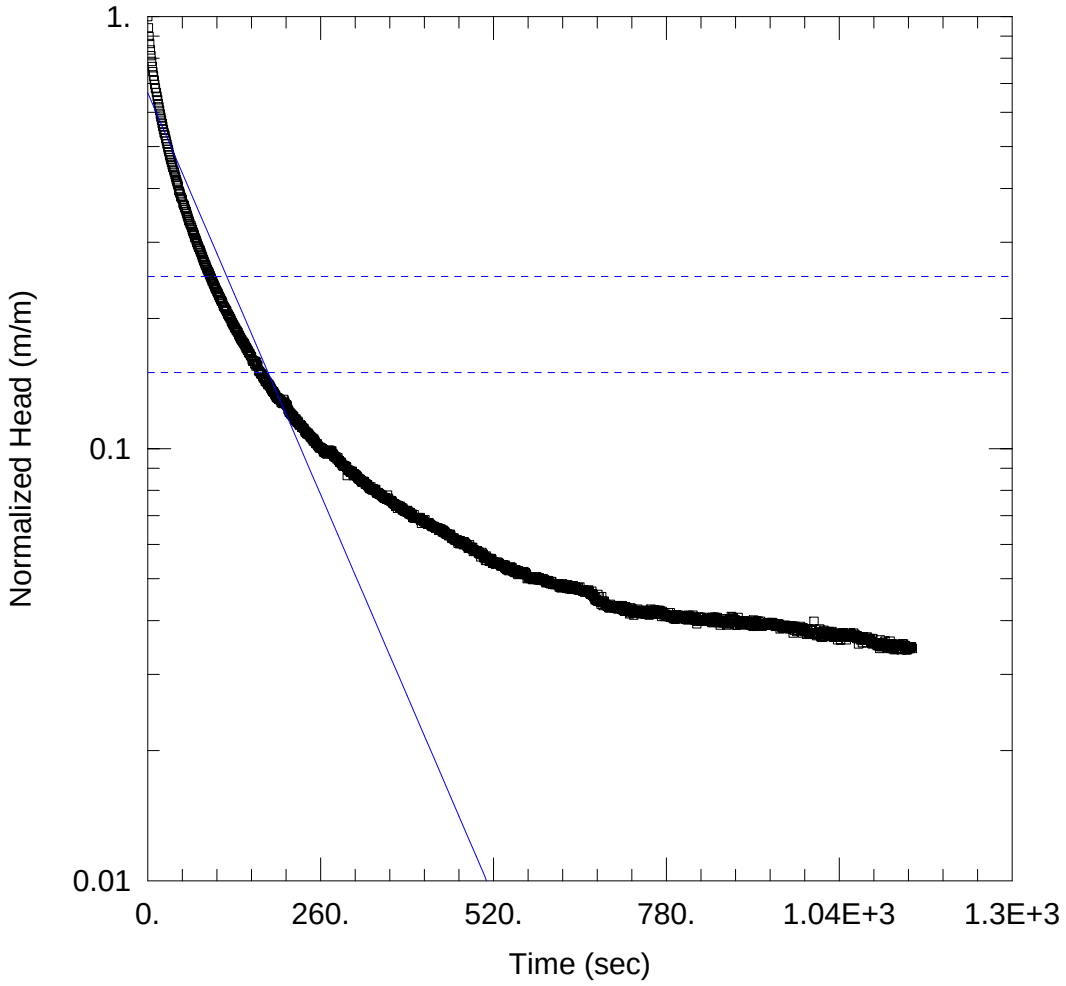
WELL DATA (ID03-GWBH07)

Initial Displacement: 0.374 m
Total Well Penetration Depth: 4.488 m
Casing Radius: 0.025 m
Static Water Column Height: 4.488 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.232 m/day y0 = 0.2495 m



RISING HEAD 02

Data Set: \...\ID03-GWBH07_RH02_Hv.aqt
Date: 05/22/17 Time: 14:52:47

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH07
Test Date: 04/04/2017

AQUIFER DATA

Saturated Thickness: 9.488 m Anisotropy Ratio (Kz/Kr): 0.2

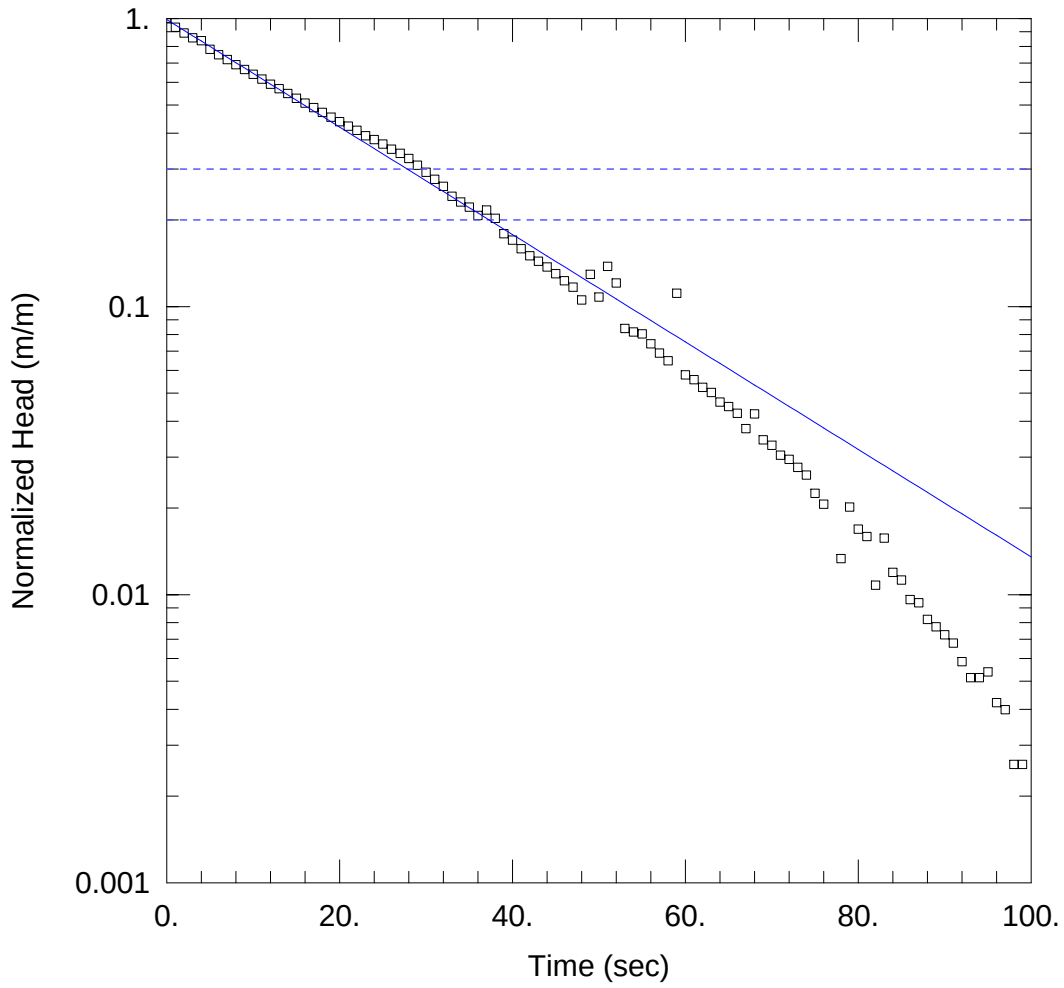
WELL DATA (ID03-GWBH07)

Initial Displacement: 0.374 m
Total Well Penetration Depth: 4.488 m
Casing Radius: 0.025 m
Static Water Column Height: 4.488 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 1.715 m/day y0 = 0.249 m



FALLING HEAD 01

Data Set: \...\ID03-GWBH08_FH01_BR.aqt
Date: 05/22/17 Time: 14:55:53

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH08
Test Date: 04/04/2017

AQUIFER DATA

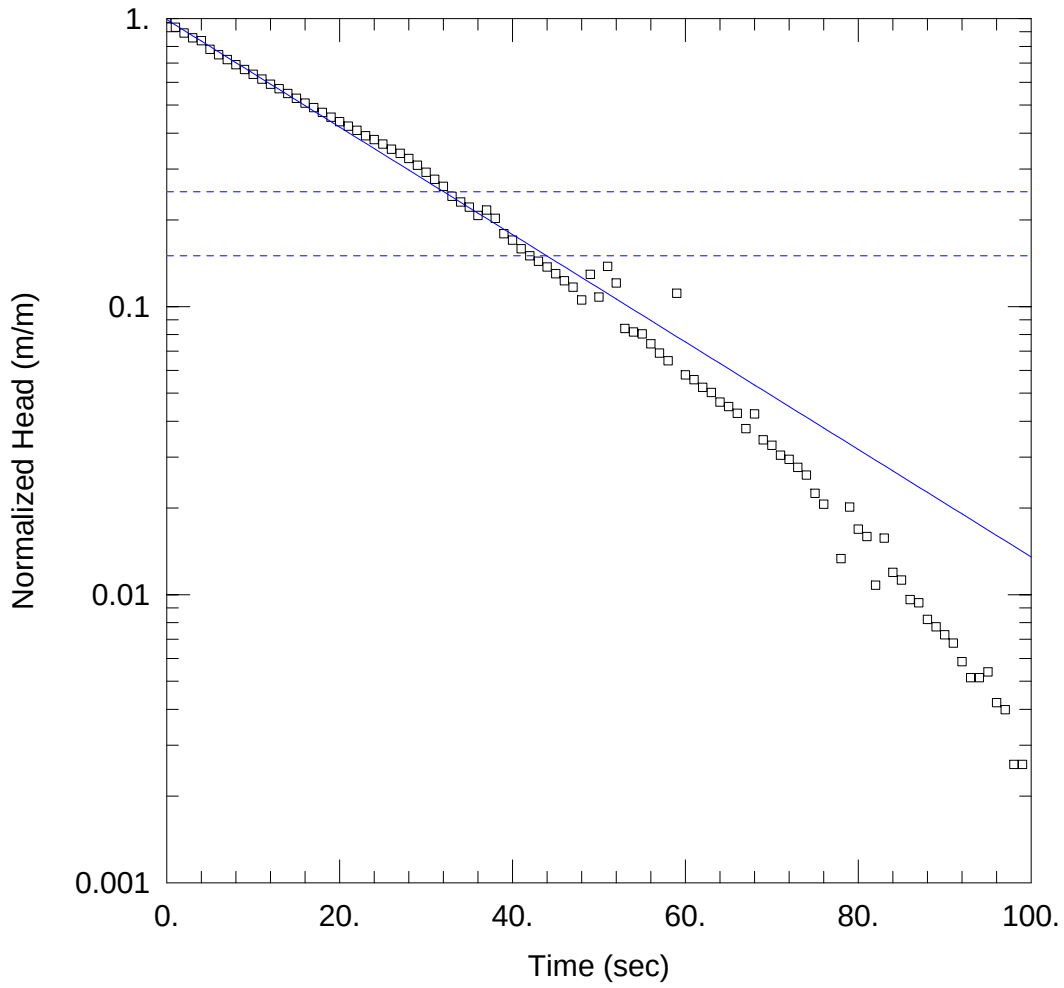
Saturated Thickness: 13.81 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH08)

Initial Displacement: 0.427 m
Total Well Penetration Depth: 8.813 m
Casing Radius: 0.025 m
Static Water Column Height: 8.813 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 7.044 m/day
y0 = 0.4229 m



FALLING HEAD 01

Data Set: \...\ID03-GWBH08_FH01_Hv.aqt
Date: 05/22/17 Time: 14:55:49

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH08
Test Date: 04/04/2017

AQUIFER DATA

Saturated Thickness: 13.81 m Anisotropy Ratio (Kz/Kr): 0.2

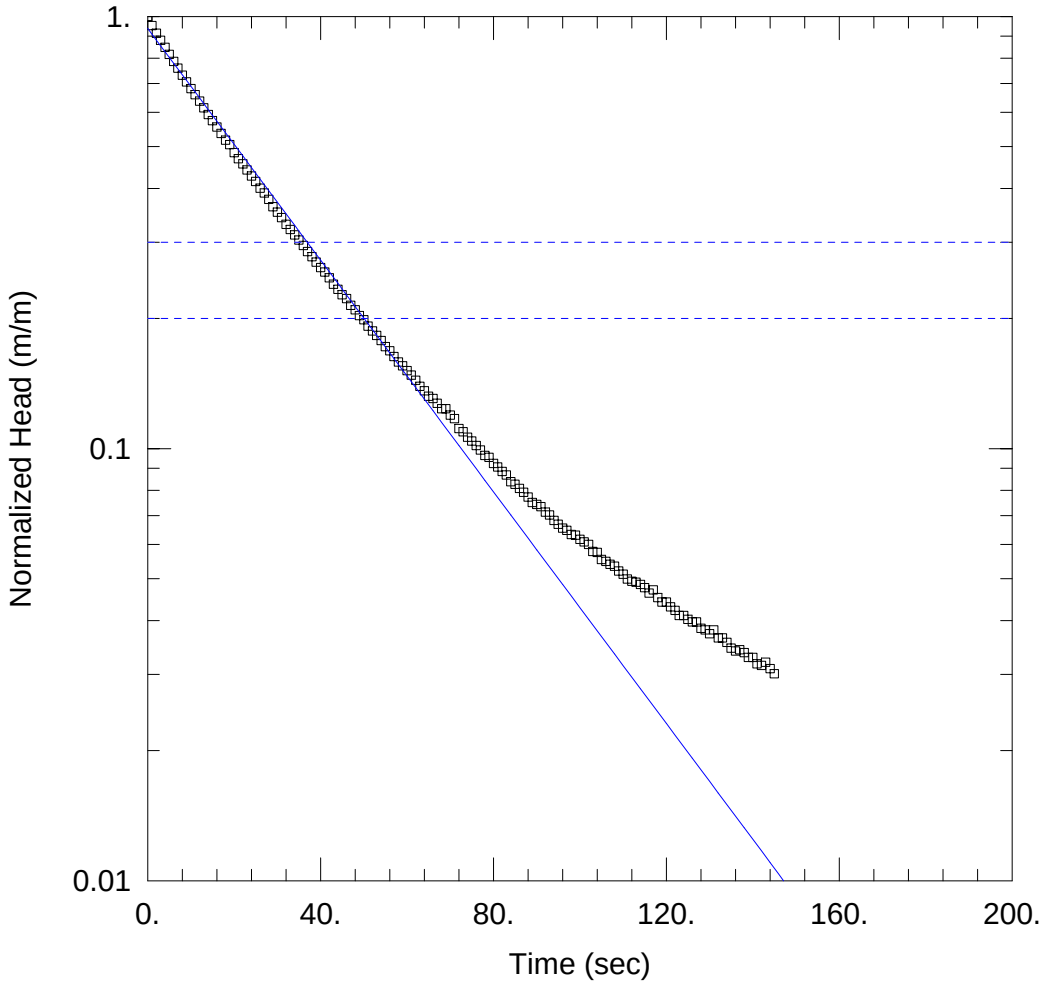
WELL DATA (ID03-GWBH08)

Initial Displacement: 0.427 m
Total Well Penetration Depth: 8.813 m
Casing Radius: 0.025 m
Static Water Column Height: 8.813 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 8.941 m/day y0 = 0.4229 m



FALLING HEAD 02

Data Set: \...\ID03-GWBH08_FH02_BR.aqt
Date: 05/22/17 Time: 14:55:45

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH08
Test Date: 04/04/2017

AQUIFER DATA

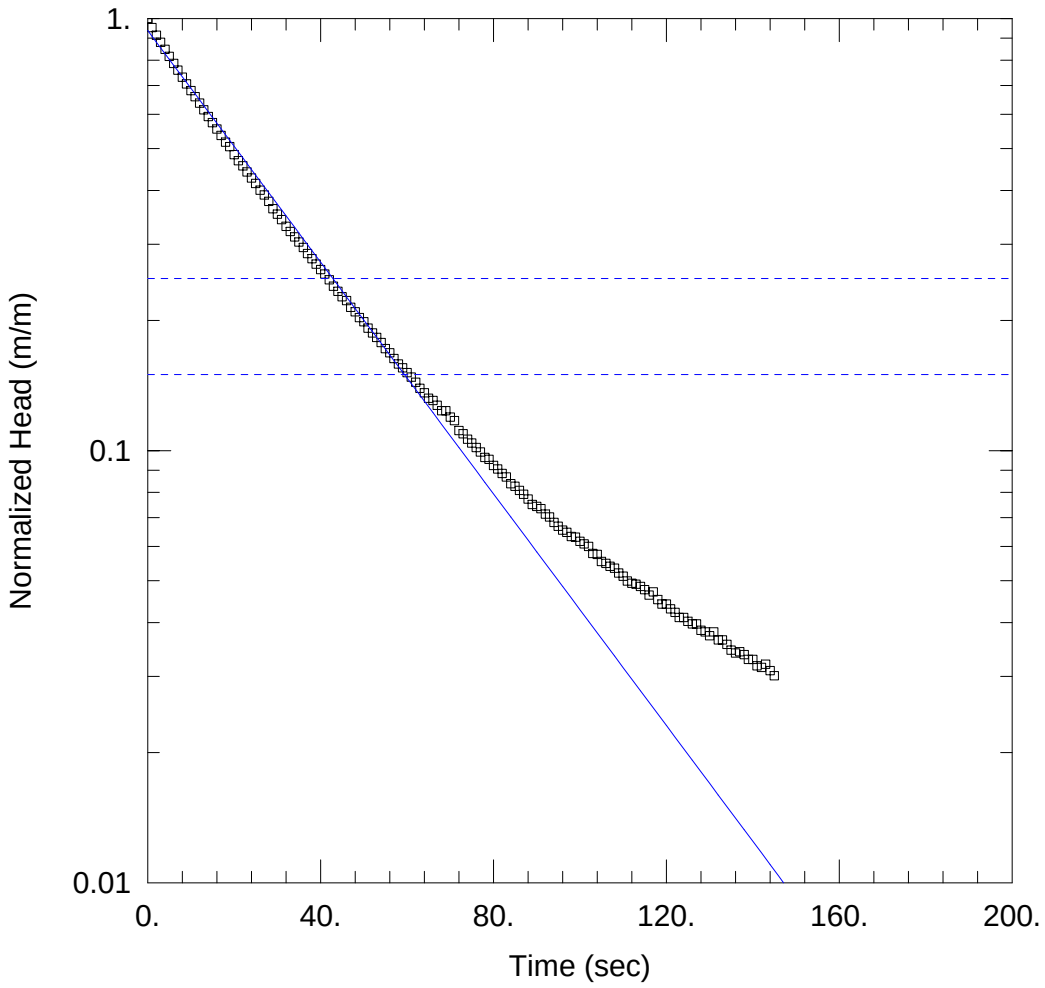
Saturated Thickness: 13.81 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH08)

Initial Displacement: 0.365 m
Total Well Penetration Depth: 8.813 m
Casing Radius: 0.025 m
Static Water Column Height: 8.813 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 5.062 m/day
y0 = 0.3422 m



FALLING HEAD 02

Data Set: \...\ID03-GWBH08_FH02_Hv.aqt
Date: 05/22/17 Time: 14:55:41

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH08
Test Date: 04/04/2017

AQUIFER DATA

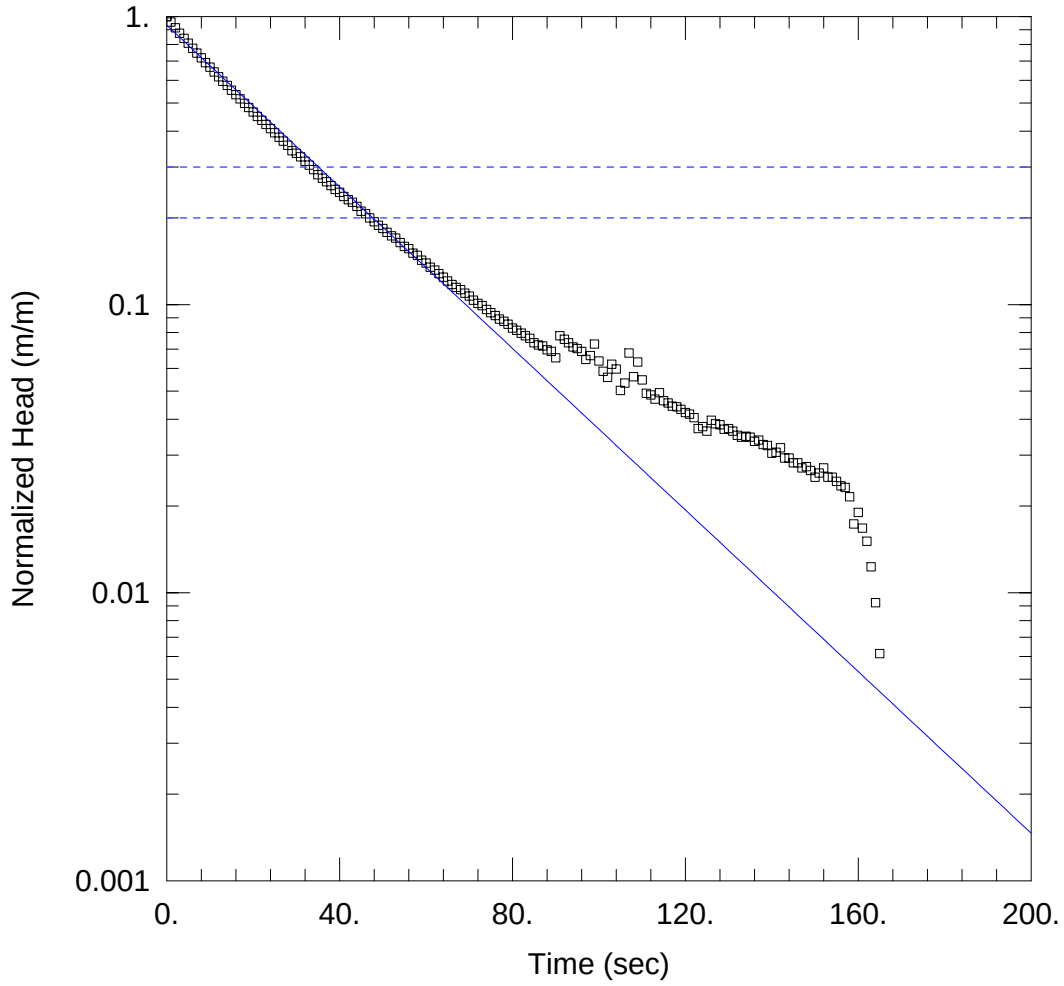
Saturated Thickness: 13.81 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH08)

Initial Displacement: 0.365 m
Total Well Penetration Depth: 8.813 m
Casing Radius: 0.025 m
Static Water Column Height: 8.813 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 6.425 m/day
y0 = 0.3422 m



RISING HEAD 01

Data Set: \...\ID03-GWBH08_RH01_BR.aqt
Date: 05/22/17 Time: 14:55:36

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH08
Test Date: 04/04/2017

AQUIFER DATA

Saturated Thickness: 13.81 m Anisotropy Ratio (Kz/Kr): 0.2

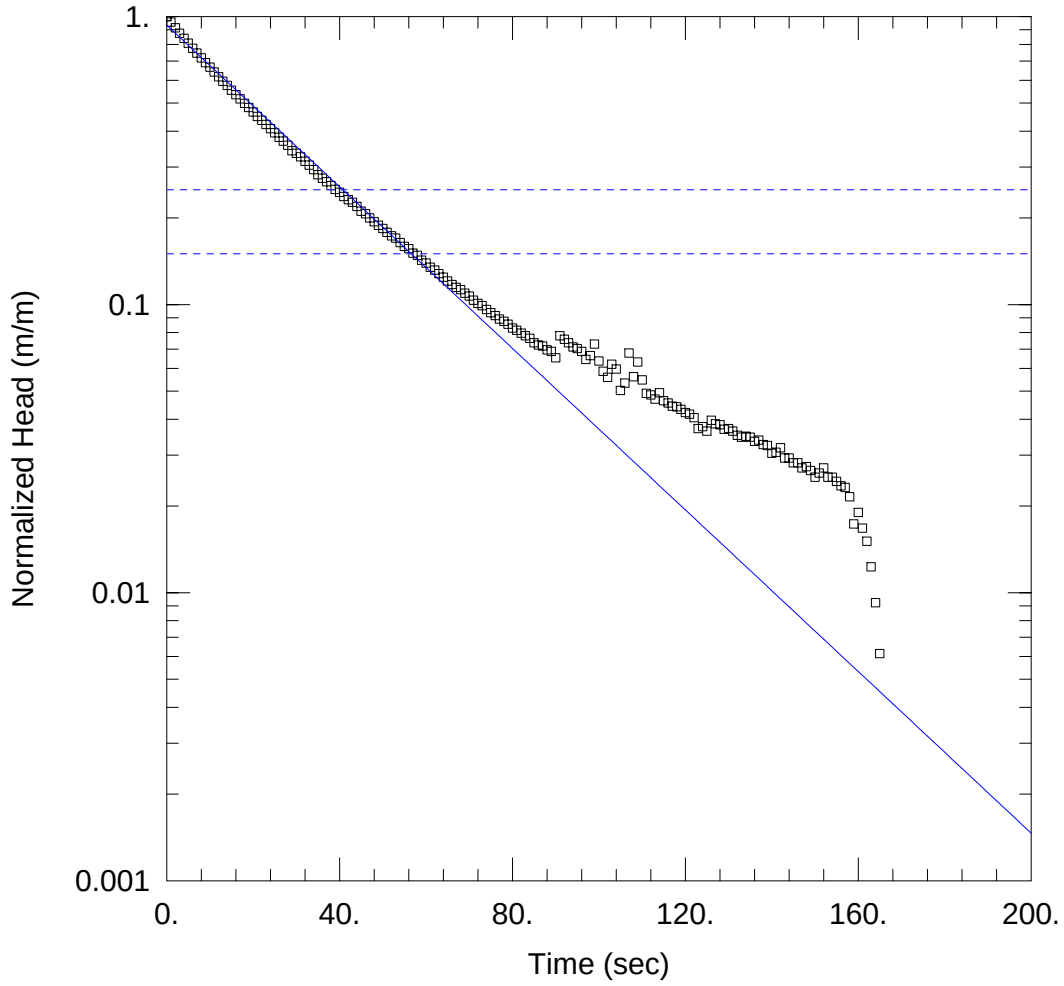
WELL DATA (ID03-GWBH08)

Initial Displacement: 0.358 m
Total Well Penetration Depth: 8.813 m
Casing Radius: 0.025 m
Static Water Column Height: 8.813 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 5.297 m/day
y0 = 0.3337 m



RISING HEAD 01

Data Set: \...\ID03-GWBH08_RH01_Hv.aqt
Date: 05/22/17 Time: 14:55:32

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH08
Test Date: 04/04/2017

AQUIFER DATA

Saturated Thickness: 13.81 m Anisotropy Ratio (Kz/Kr): 0.2

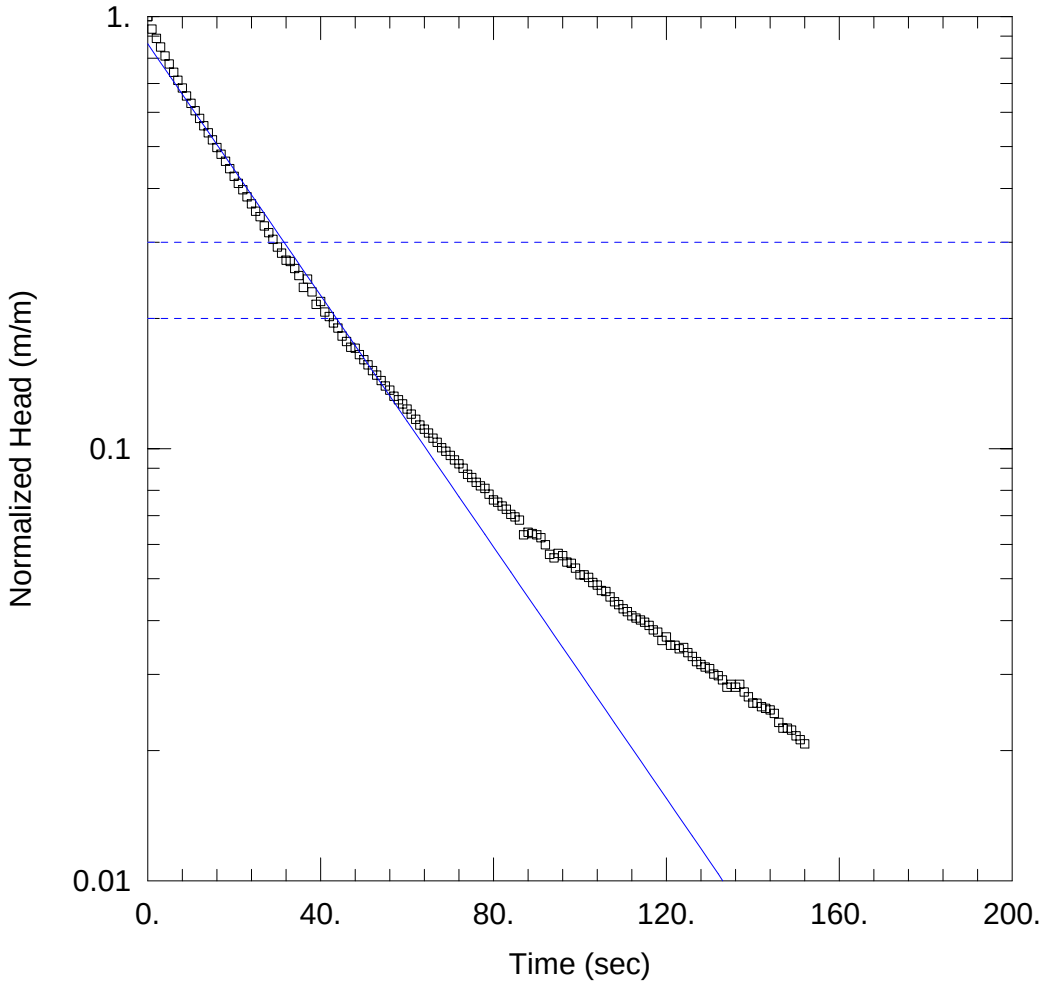
WELL DATA (ID03-GWBH08)

Initial Displacement: 0.358 m
Total Well Penetration Depth: 8.813 m
Casing Radius: 0.025 m
Static Water Column Height: 8.813 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 6.722 m/day y0 = 0.3337 m



RISING HEAD 02

Data Set: \...\ID03-GWBH08_RH02_BR.aqt
Date: 05/22/17 Time: 14:55:27

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH08
Test Date: 04/04/2017

AQUIFER DATA

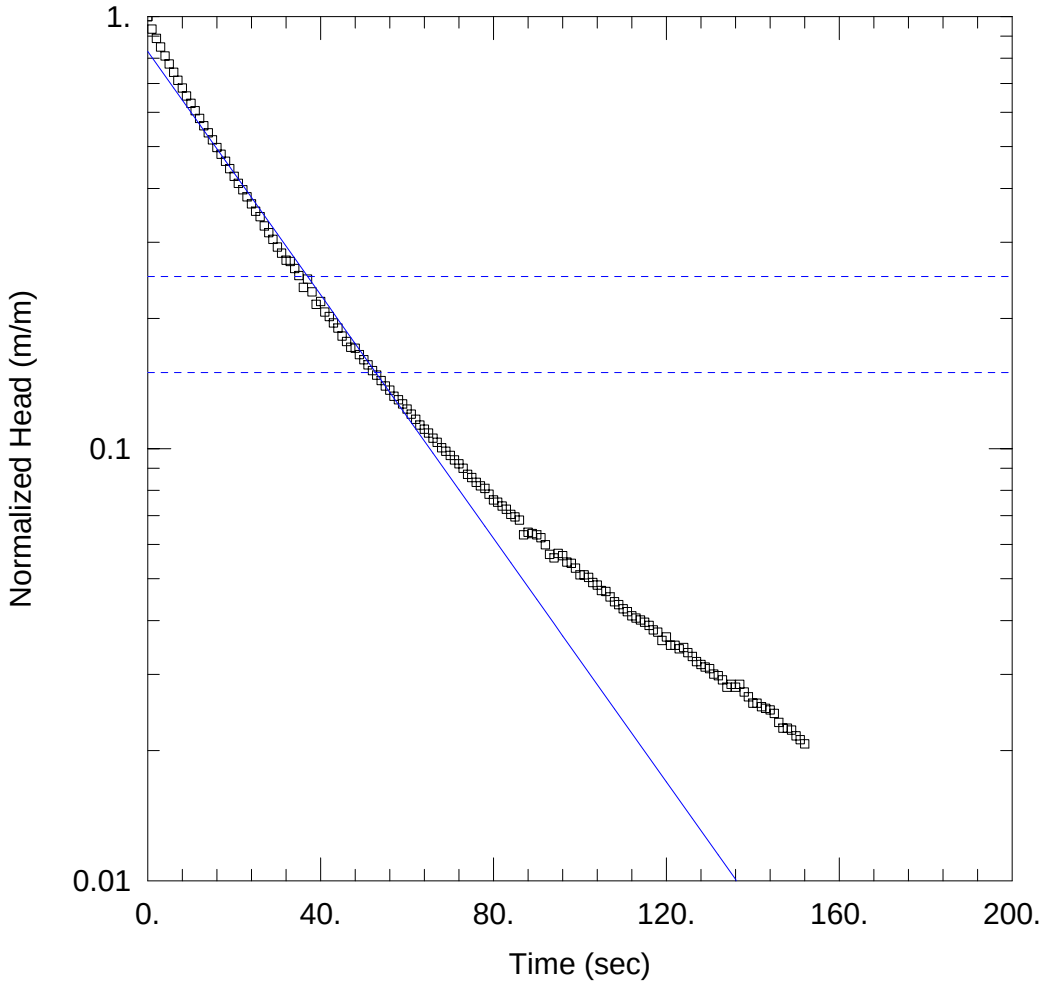
Saturated Thickness: 13.81 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH08)

Initial Displacement: 0.439 m
Total Well Penetration Depth: 8.813 m
Casing Radius: 0.025 m
Static Water Column Height: 8.813 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 5.495 m/day
y0 = 0.3791 m



RISING HEAD 02

Data Set: \...\ID03-GWBH08_RH02_Hv.aqt
Date: 05/22/17 Time: 14:55:23

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID03-GWBH08
Test Date: 04/04/2017

AQUIFER DATA

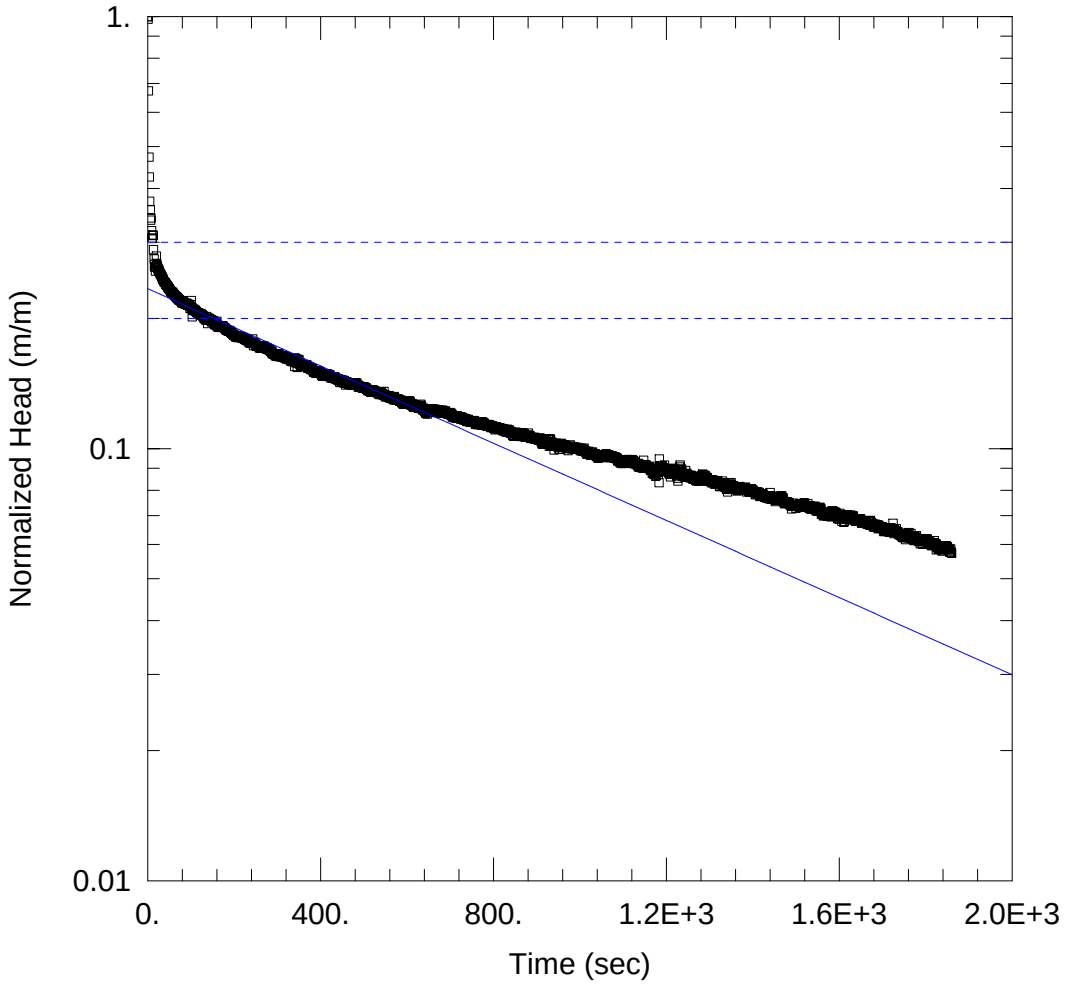
Saturated Thickness: 13.81 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID03-GWBH08)

Initial Displacement: 0.439 m
Total Well Penetration Depth: 8.813 m
Casing Radius: 0.025 m
Static Water Column Height: 8.813 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 6.754 m/day
y0 = 0.3644 m



RISING HEAD 01

Data Set: \...\ID13-GWBH05_RH01_BR.aqt
Date: 05/22/17 Time: 14:58:43

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH05
Test Date: 05/04/2017

AQUIFER DATA

Saturated Thickness: 6.785 m Anisotropy Ratio (Kz/Kr): 0.2

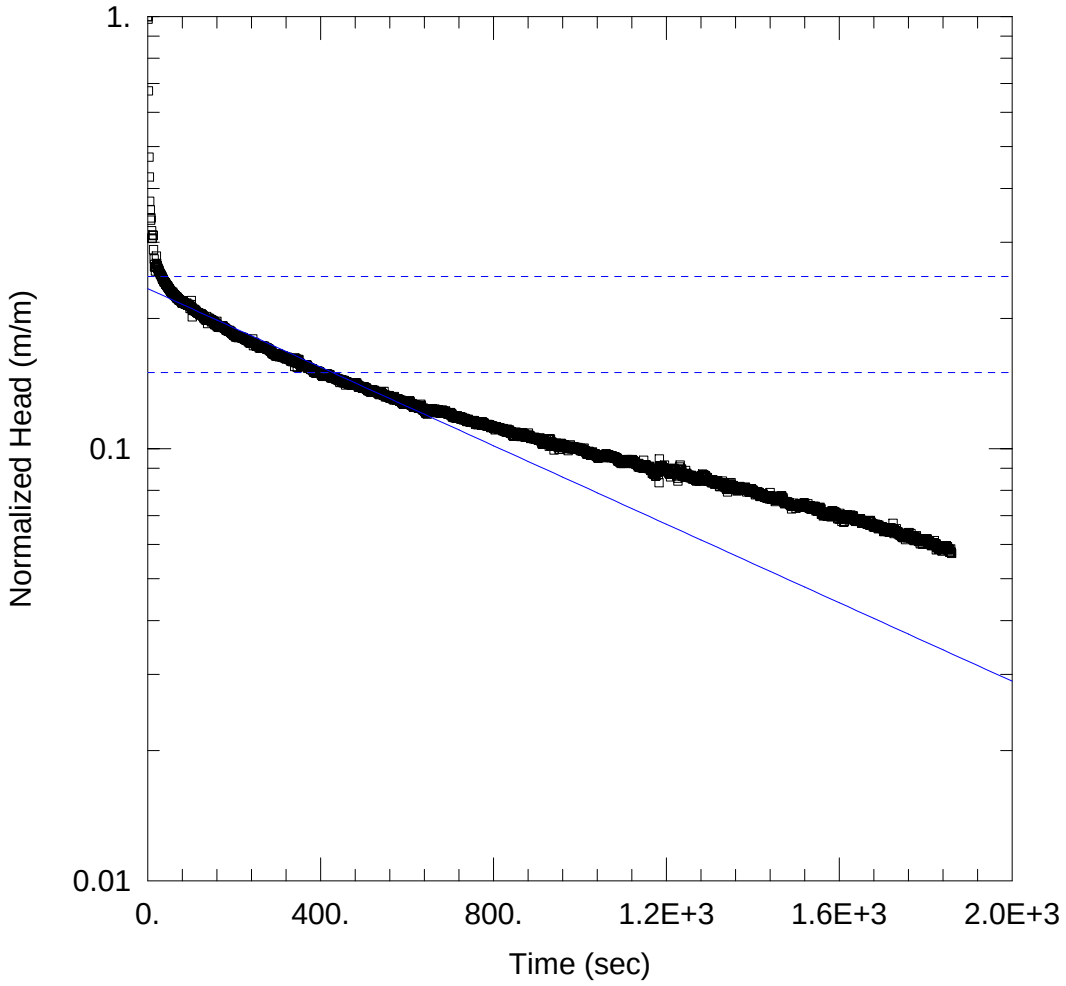
WELL DATA (ID13-GWBH05)

Initial Displacement: 0.3022 m
Total Well Penetration Depth: 1.785 m
Casing Radius: 0.025 m
Static Water Column Height: 1.785 m
Screen Length: 1.785 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.2036 m/day
y0 = 0.07082 m



RISING HEAD 01

Data Set: \...\ID13-GWBH05_RH01_Hv.aqt
Date: 05/22/17 Time: 14:58:38

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH05
Test Date: 05/04/2017

AQUIFER DATA

Saturated Thickness: 6.785 m Anisotropy Ratio (Kz/Kr): 0.2

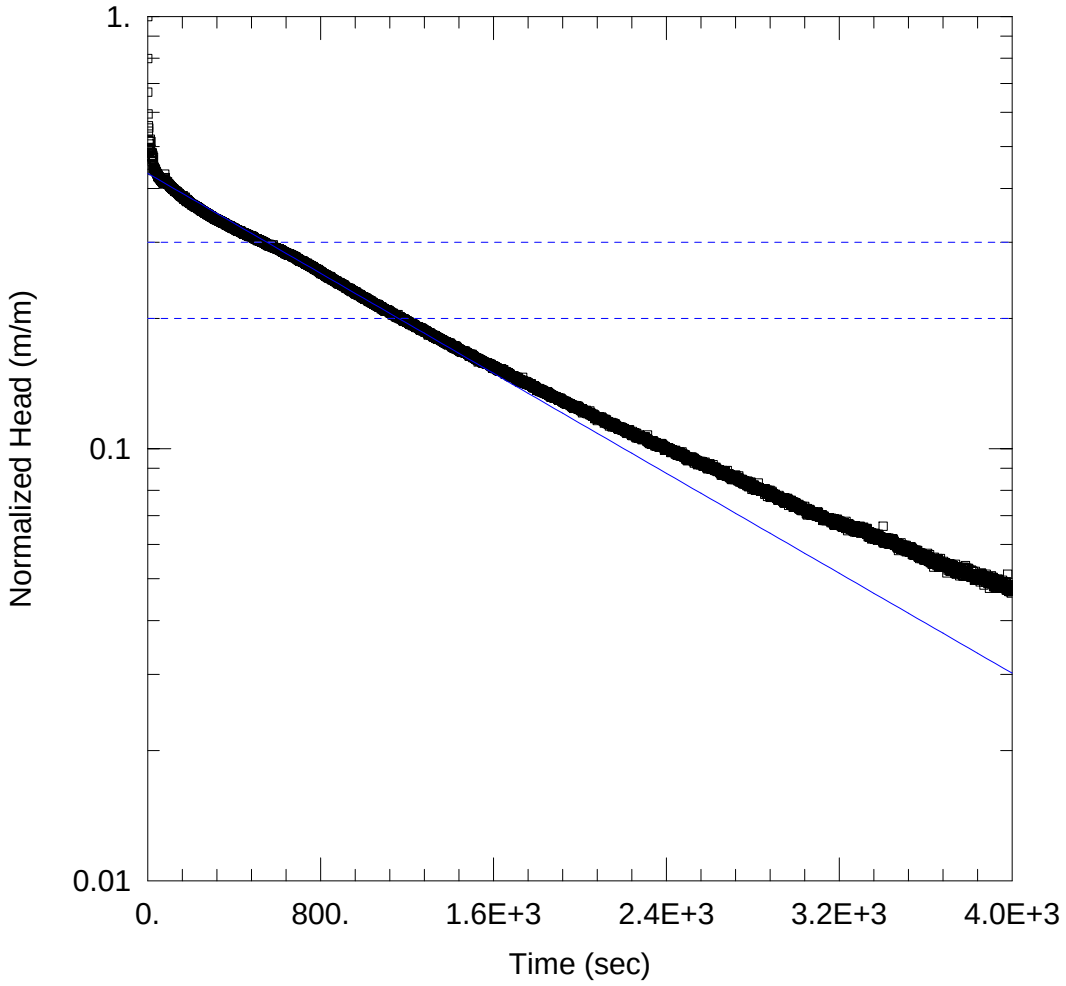
WELL DATA (ID13-GWBH05)

Initial Displacement: 0.3022 m
Total Well Penetration Depth: 1.785 m
Casing Radius: 0.025 m
Static Water Column Height: 1.785 m
Screen Length: 1.785 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.3209 m/day y0 = 0.07085 m



RISING HEAD 02

Data Set: \...\ID13-GWBH05_RH02_BR.aqt
Date: 05/22/17 Time: 14:58:34

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH05
Test Date: 05/04/2017

AQUIFER DATA

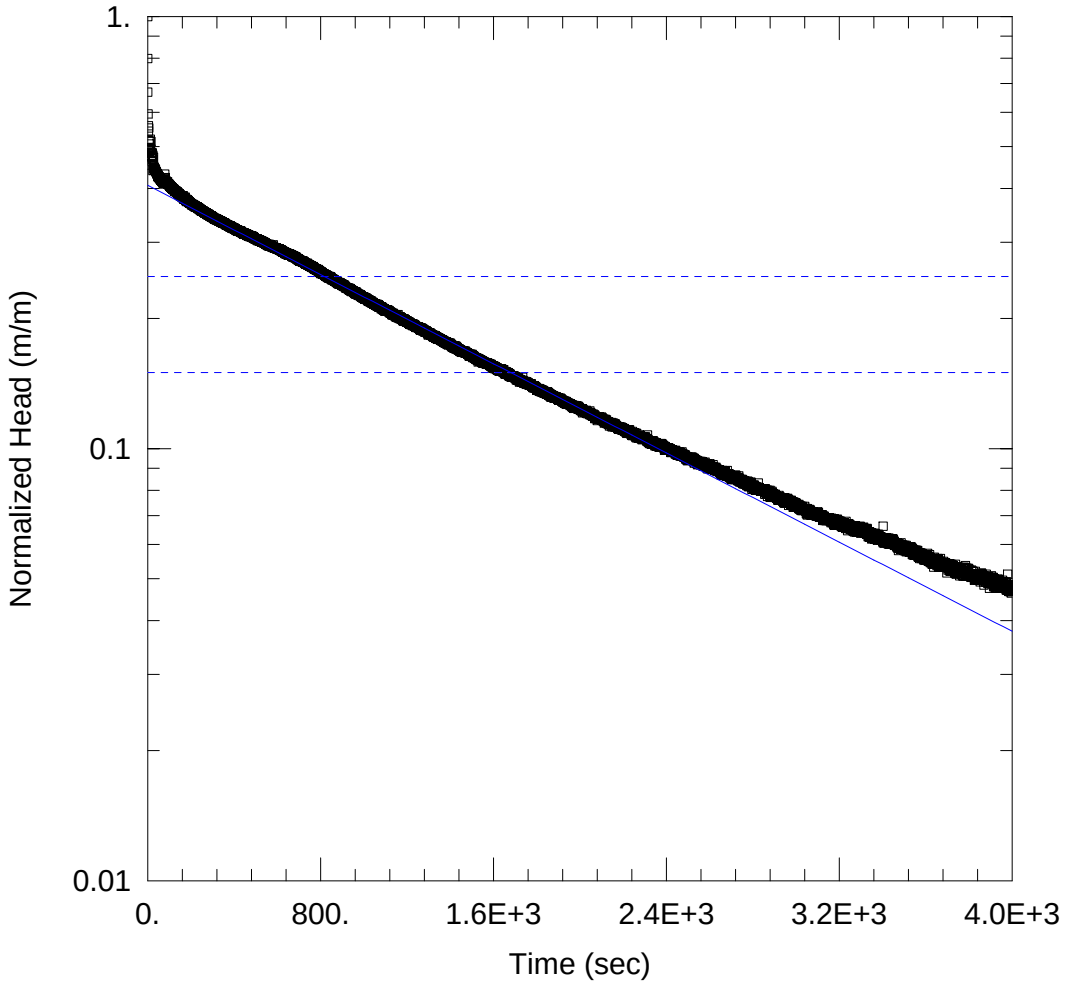
Saturated Thickness: 6.785 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID13-GWBH05)

Initial Displacement: 0.2463 m
Total Well Penetration Depth: 1.785 m
Casing Radius: 0.025 m
Static Water Column Height: 1.785 m
Screen Length: 1.785 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.1318 m/day
y0 = 0.1067 m



RISING HEAD 02

Data Set: \...\ID13-GWBH05_RH02_Hv.aqt
Date: 05/22/17 Time: 14:58:27

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH05
Test Date: 05/04/2017

AQUIFER DATA

Saturated Thickness: 6.785 m Anisotropy Ratio (Kz/Kr): 0.2

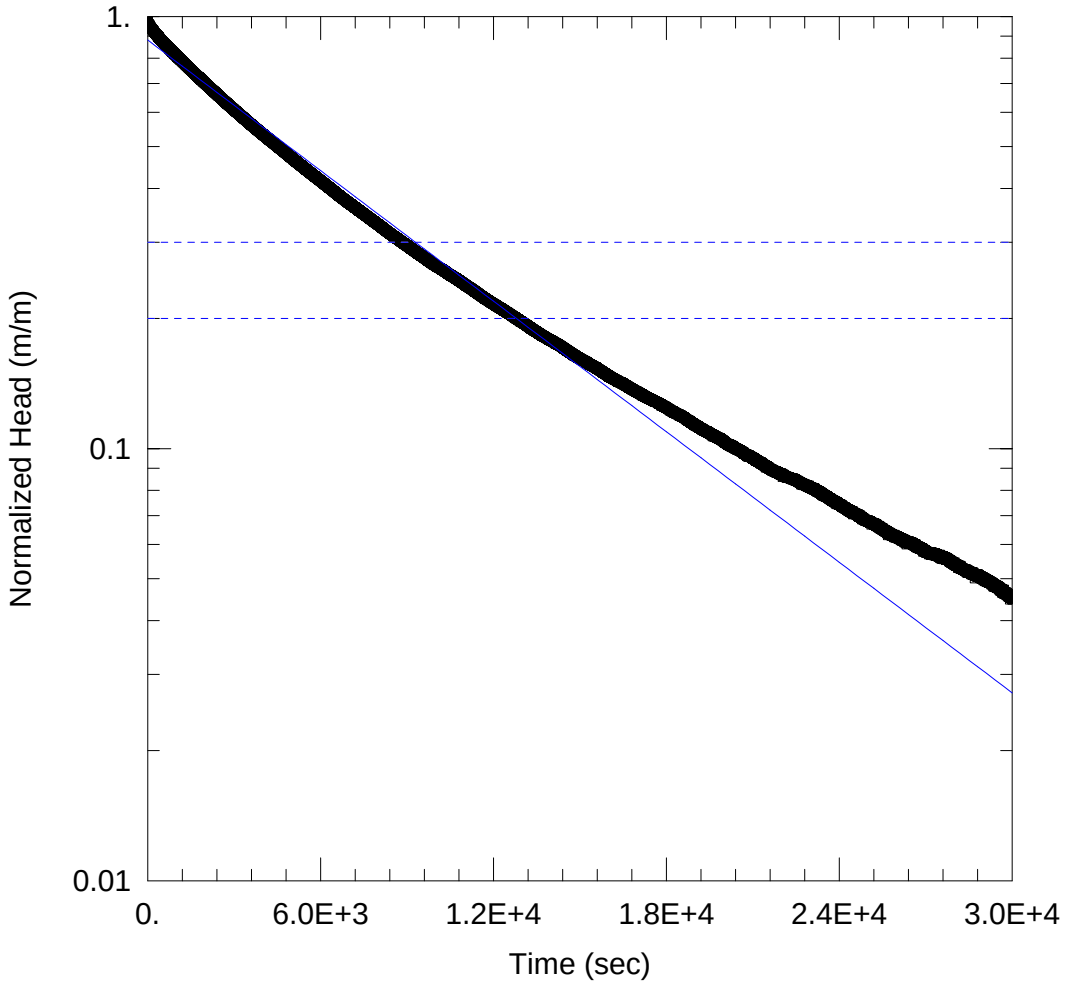
WELL DATA (ID13-GWBH05)

Initial Displacement: 0.2463 m
Total Well Penetration Depth: 1.785 m
Casing Radius: 0.025 m
Static Water Column Height: 1.785 m
Screen Length: 1.785 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.1822 m/day y0 = 0.1001 m



FALLING HEAD 01

Data Set: \...\ID13-GWBH06_FH01_BR.aqt
Date: 05/22/17 Time: 15:04:18

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH06
Test Date: 03/04/2017

AQUIFER DATA

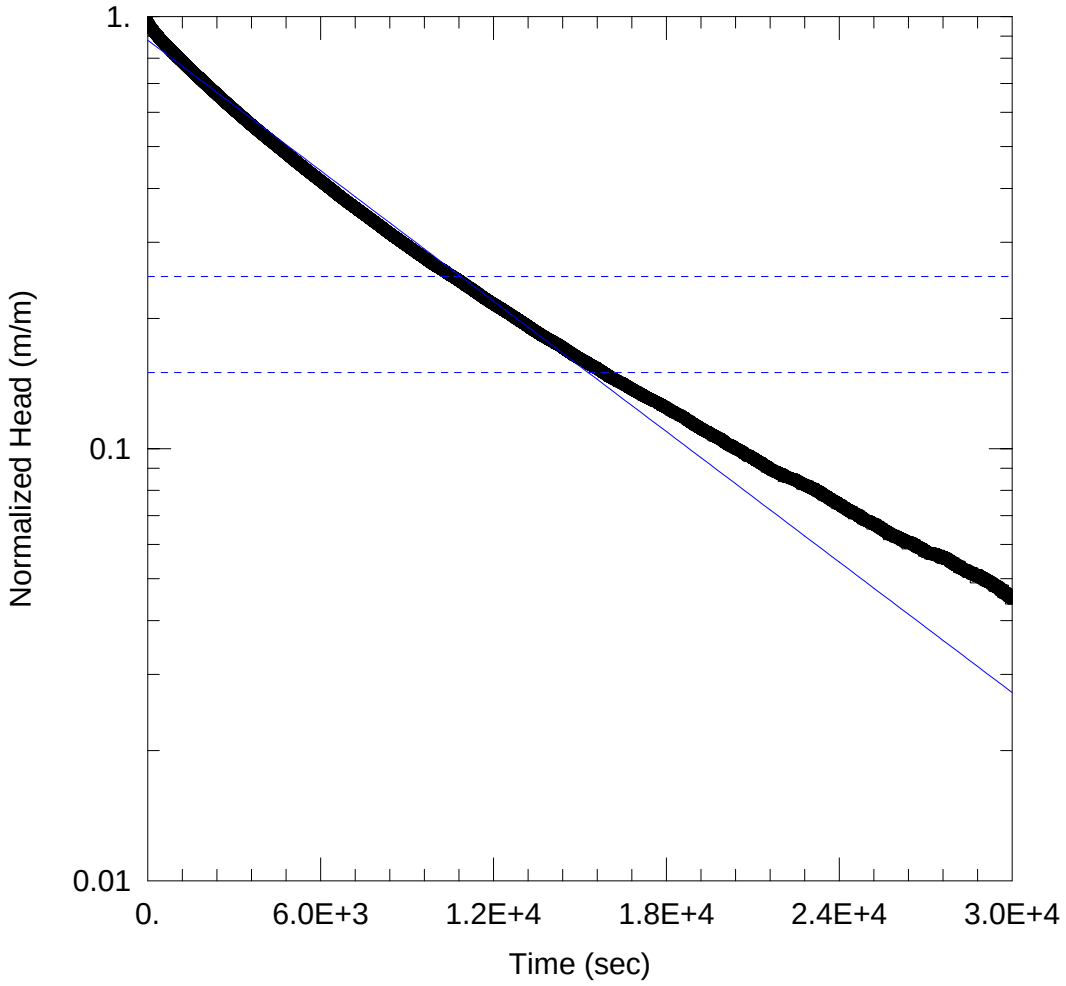
Saturated Thickness: 20.22 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID13-GWBH06)

Initial Displacement: 0.764 m
Total Well Penetration Depth: 14.72 m
Casing Radius: 0.025 m
Static Water Column Height: 15.22 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.0202 m/day
y0 = 0.6735 m



FALLING HEAD 01

Data Set: \...\ID13-GWBH06_FH01_Hv.aqt
Date: 05/22/17 Time: 15:04:07

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH06
Test Date: 03/04/2017

AQUIFER DATA

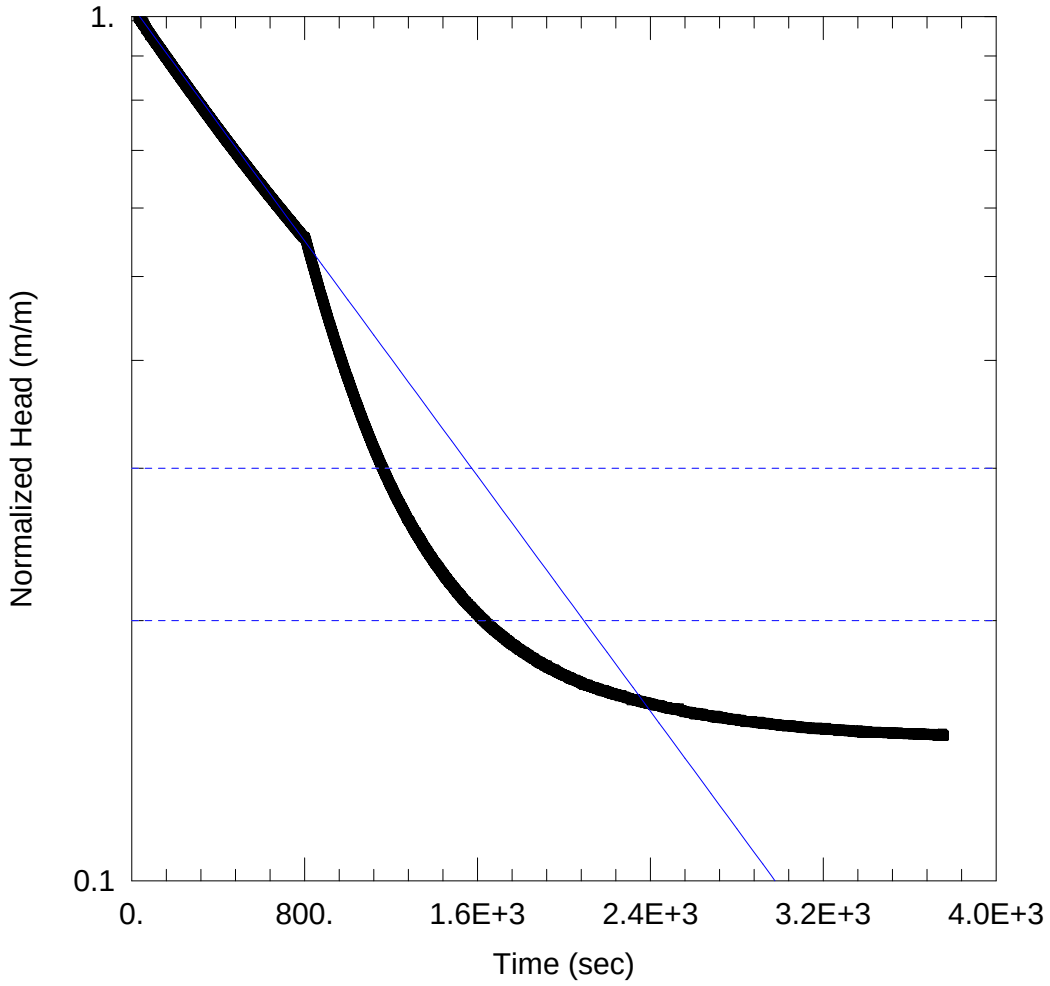
Saturated Thickness: 20.22 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID13-GWBH06)

Initial Displacement: 0.764 m
Total Well Penetration Depth: 14.72 m
Casing Radius: 0.025 m
Static Water Column Height: 15.22 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.02413 m/day
y0 = 0.6733 m



FALLING HEAD 02

Data Set: \...\ID13-GWBH06_FH02_BR.aqt
Date: 05/22/17 Time: 15:03:59

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH06
Test Date: 03/04/2017

AQUIFER DATA

Saturated Thickness: 20.22 m Anisotropy Ratio (Kz/Kr): 0.2

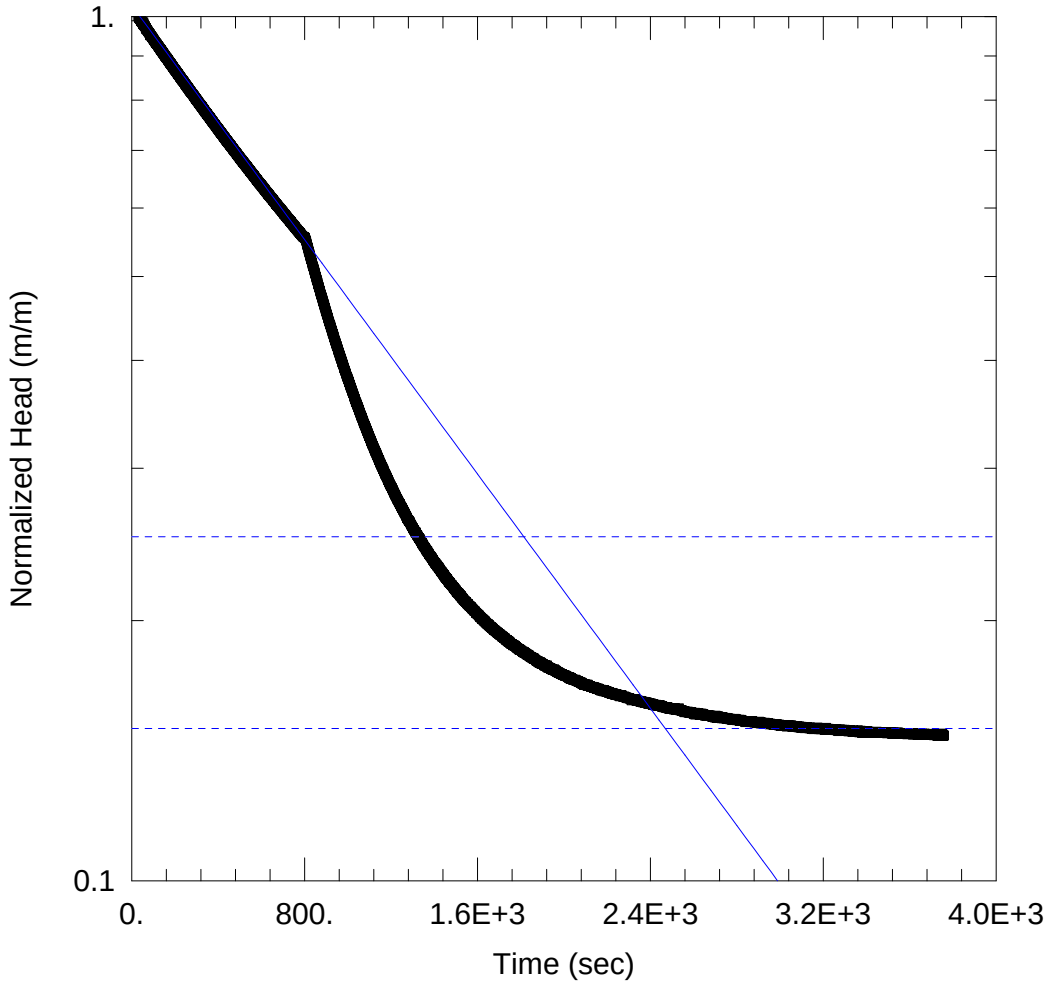
WELL DATA (ID13-GWBH06)

Initial Displacement: 0.841 m
Total Well Penetration Depth: 14.72 m
Casing Radius: 0.025 m
Static Water Column Height: 15.22 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.1364 m/day
y0 = 0.8649 m



FALLING HEAD 02

Data Set: \...\ID13-GWBH06_FH02_Hv.aqt
Date: 05/22/17 Time: 15:03:54

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH06
Test Date: 03/04/2017

AQUIFER DATA

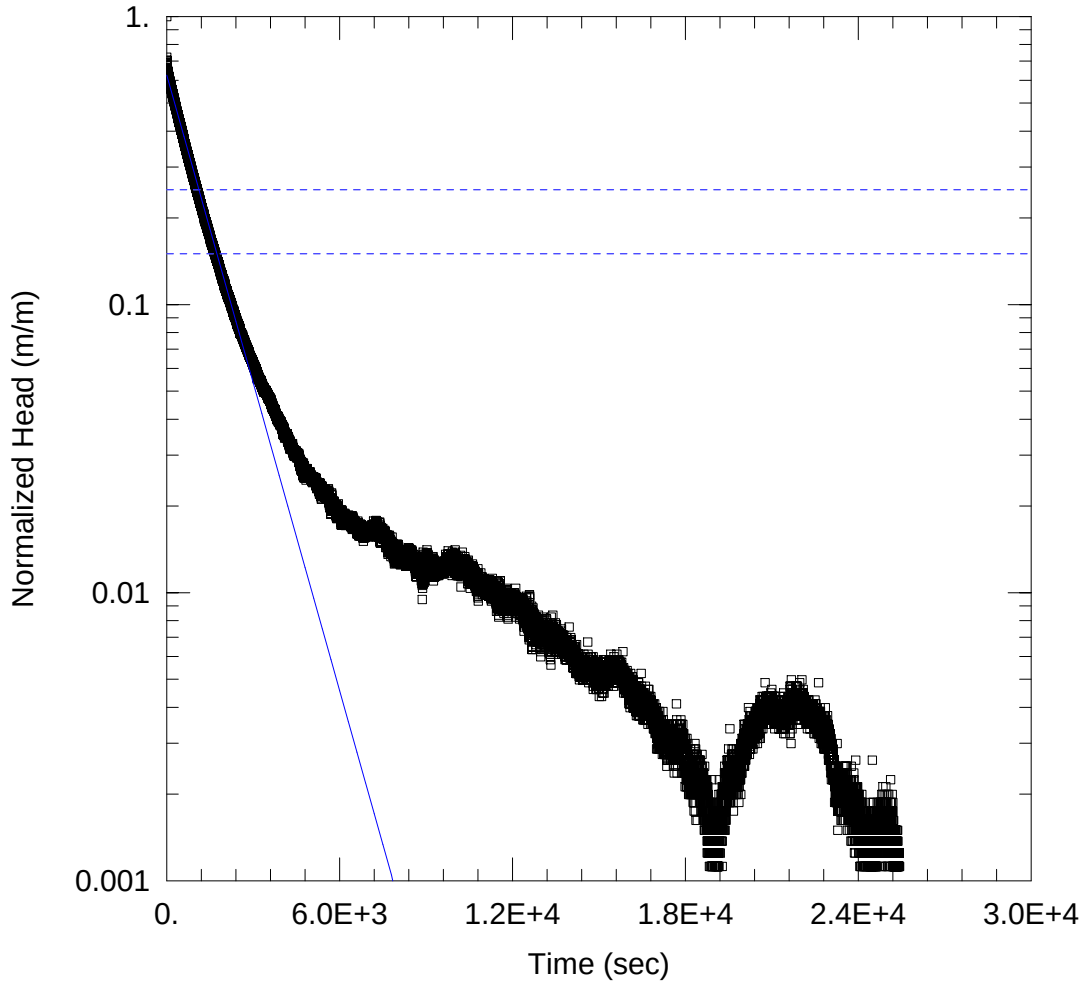
Saturated Thickness: 20.22 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID13-GWBH06)

Initial Displacement: 0.841 m
Total Well Penetration Depth: 14.72 m
Casing Radius: 0.025 m
Static Water Column Height: 15.22 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.1625 m/day
y0 = 0.8661 m



RISING HEAD 02

Data Set: \...\ID13-GWBH06_RH02_BR.aqt
Date: 05/22/17 Time: 15:03:49

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH06
Test Date: 03/04/2017

AQUIFER DATA

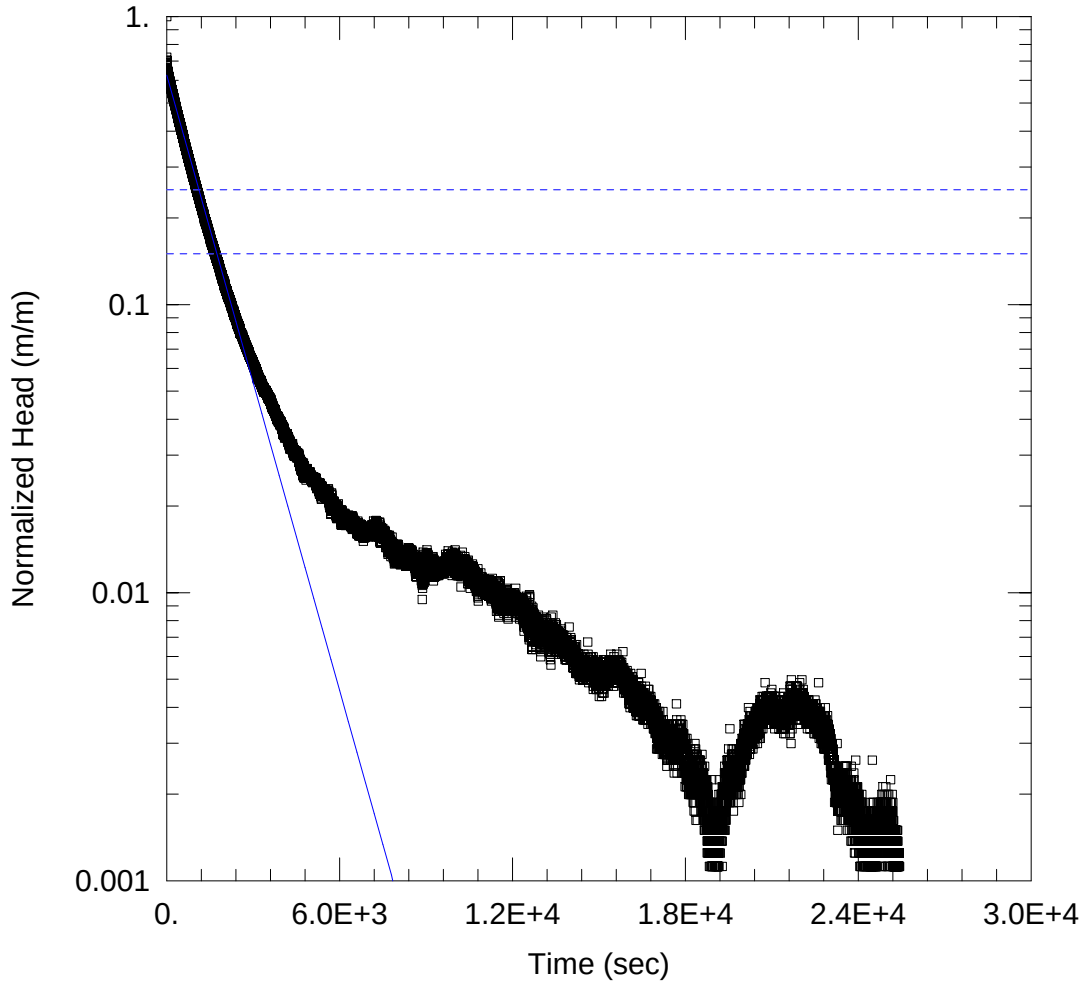
Saturated Thickness: 20.22 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID13-GWBH06)

Initial Displacement: 0.8023 m
Total Well Penetration Depth: 14.72 m
Casing Radius: 0.025 m
Static Water Column Height: 15.22 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.1707 m/day
y0 = 0.5017 m



RISING HEAD 02

Data Set: \...\ID13-GWBH06_RH02_Hv.aqt
Date: 05/22/17 Time: 15:03:43

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH06
Test Date: 03/04/2017

AQUIFER DATA

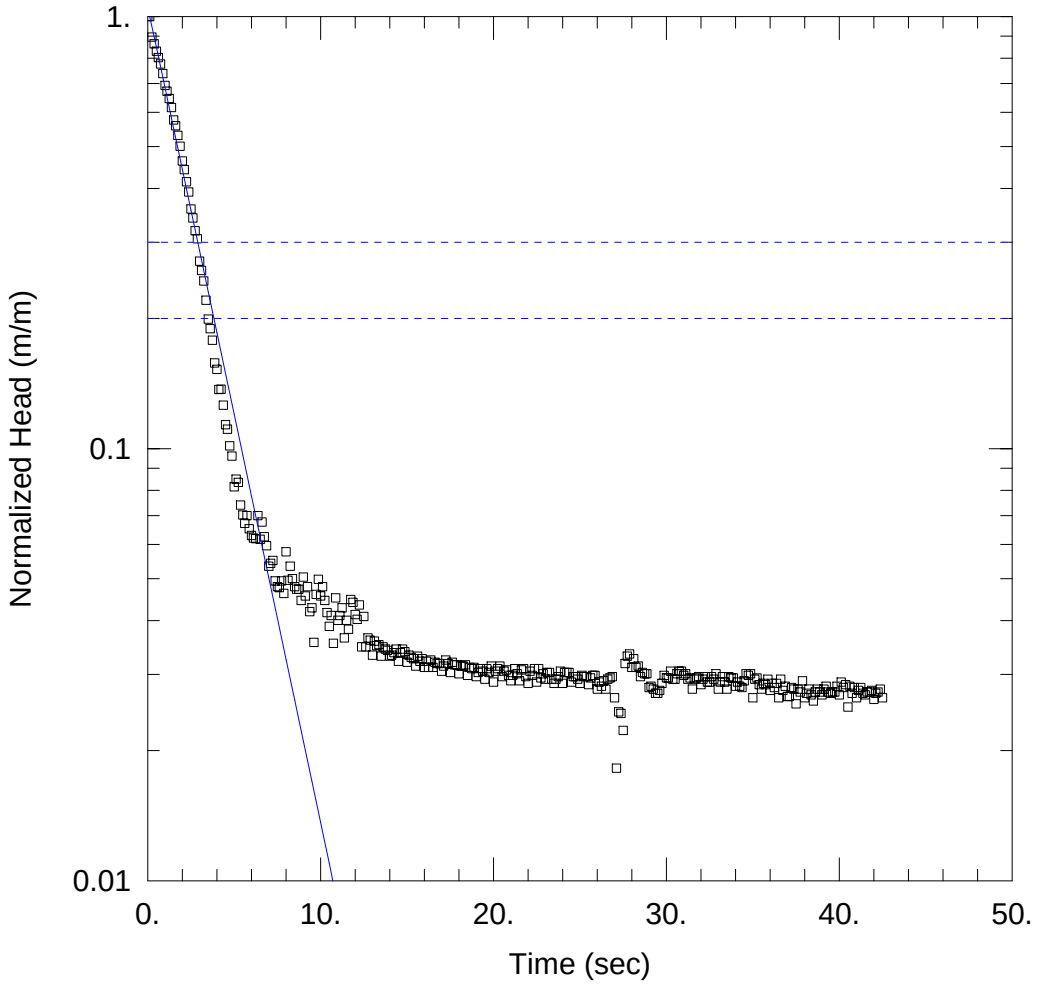
Saturated Thickness: 20.32 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID13-GWBH06)

Initial Displacement: 0.8023 m
Total Well Penetration Depth: 14.77 m
Casing Radius: 0.025 m
Static Water Column Height: 15.32 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.1707 m/day
y0 = 0.5017 m



RISING HEAD 01

Data Set: \...\ID13-GWBH07_RH01_BR.aqt
Date: 05/22/17 Time: 15:08:13

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH07
Test Date: 20.04.17

AQUIFER DATA

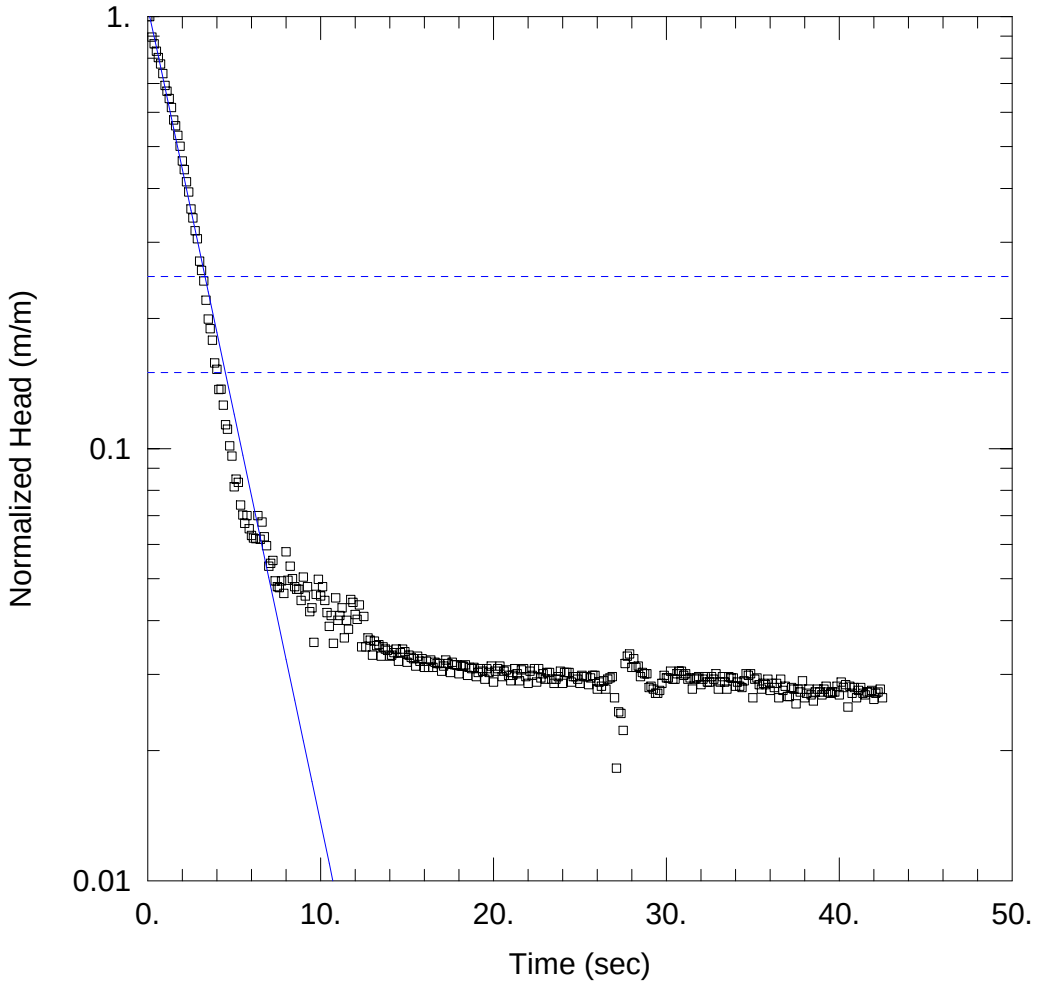
Saturated Thickness: 7.187 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID13-GWBH07)

Initial Displacement: 0.4718 m
Total Well Penetration Depth: 3. m
Casing Radius: 0.025 m
Static Water Column Height: 2.187 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 60.91 m/day
y0 = 0.4985 m



RISING HEAD 01

Data Set: \...\ID13-GWBH07_RH01_Hv.aqt
Date: 05/22/17 Time: 15:08:09

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH07
Test Date: 20.04.17

AQUIFER DATA

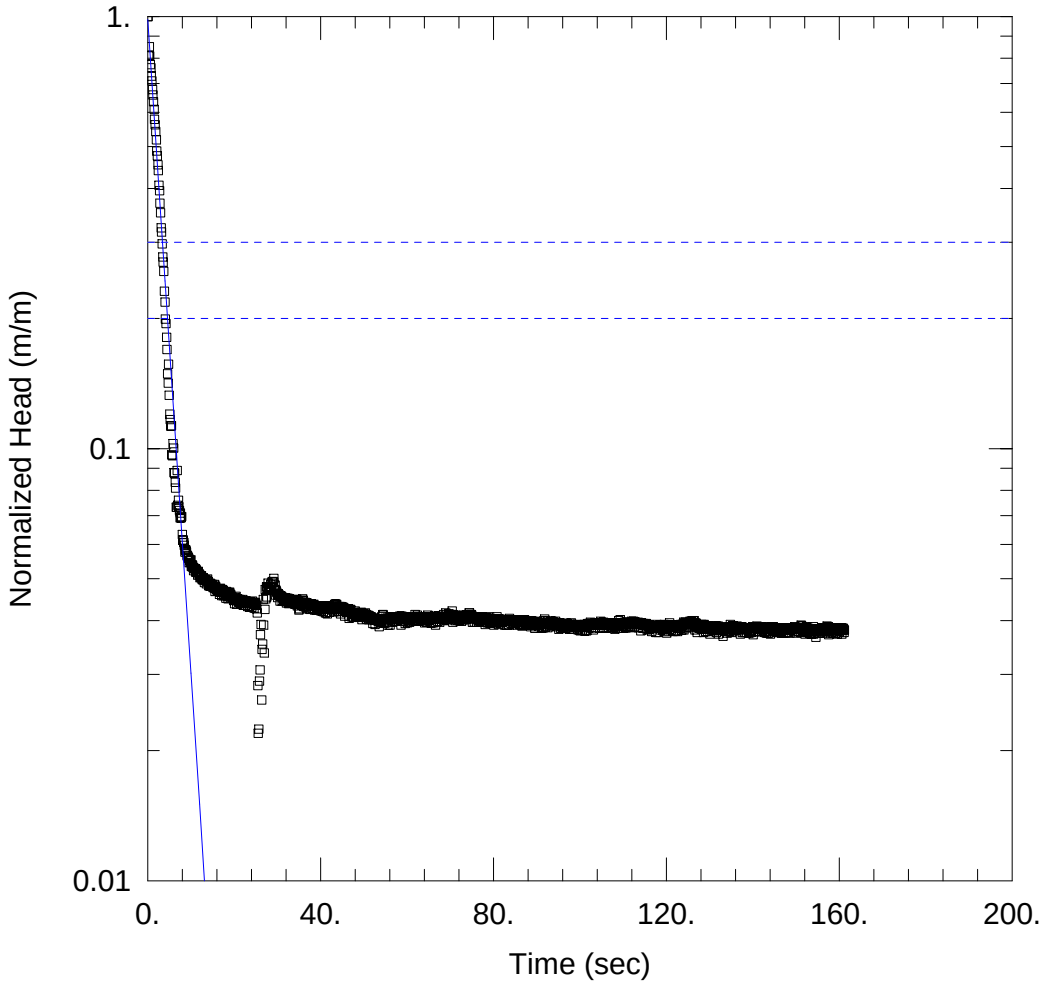
Saturated Thickness: 7.187 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID13-GWBH07)

Initial Displacement: 0.4718 m
Total Well Penetration Depth: 3. m
Casing Radius: 0.025 m
Static Water Column Height: 2.187 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 90.57 m/day
y0 = 0.4985 m



RISING HEAD 02

Data Set: \...\ID13-GWBH07_RH02_BR.aqt
Date: 05/22/17 Time: 15:08:04

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH07
Test Date: 20.04.17

AQUIFER DATA

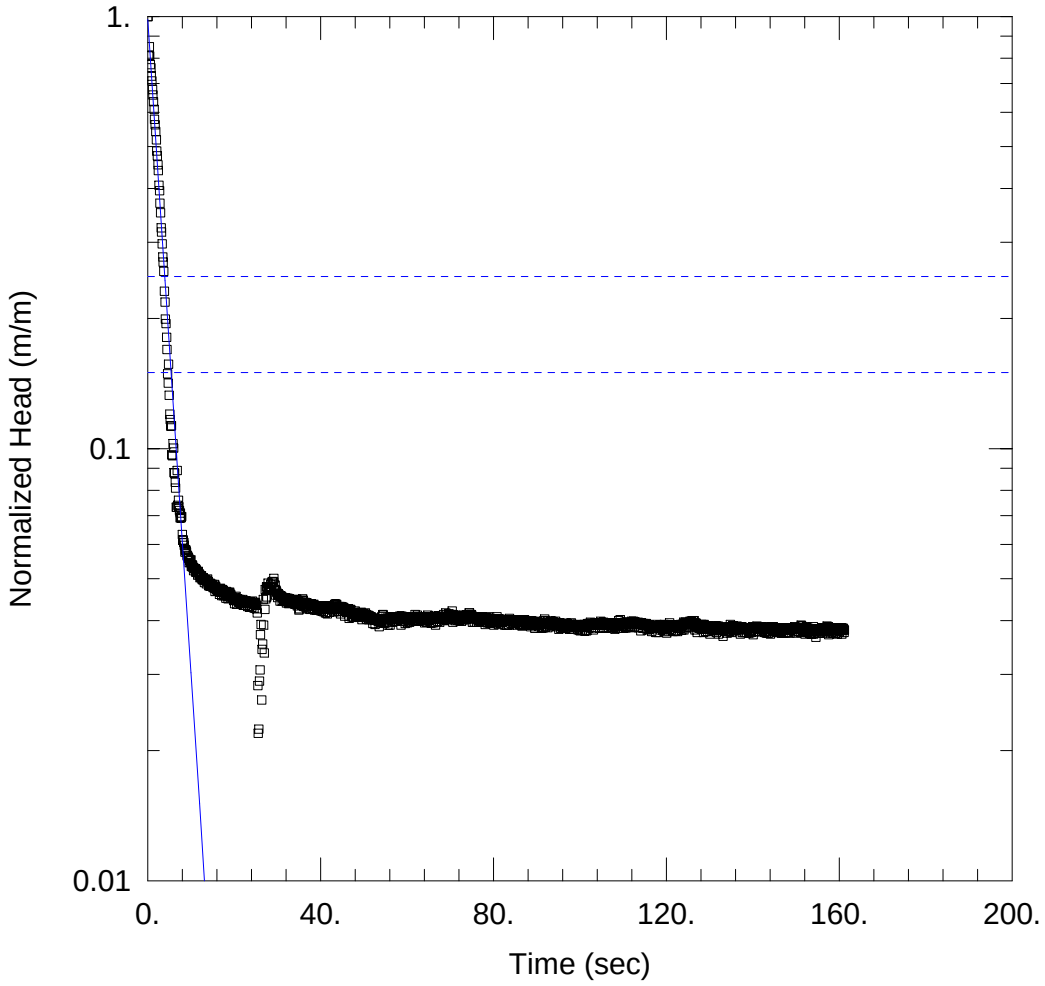
Saturated Thickness: 7.187 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID13-GWBH07)

Initial Displacement: 0.615 m
Total Well Penetration Depth: 3. m
Casing Radius: 0.025 m
Static Water Column Height: 2.187 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 48.78 m/day
y0 = 0.6056 m



RISING HEAD 02

Data Set: \...\ID13-GWBH07_RH02_Hv.aqt
Date: 05/22/17 Time: 15:07:59

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH07
Test Date: 20.04.17

AQUIFER DATA

Saturated Thickness: 7.187 m Anisotropy Ratio (Kz/Kr): 0.2

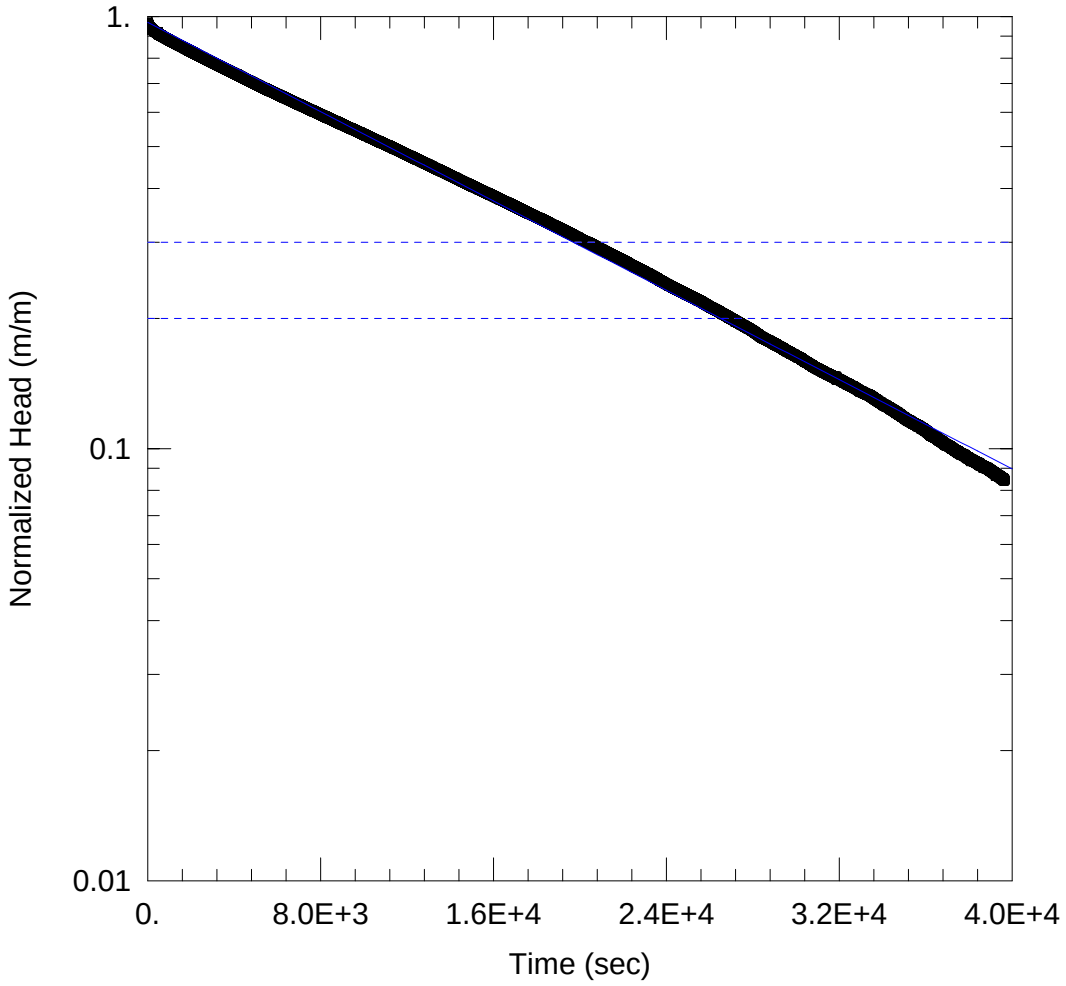
WELL DATA (ID13-GWBH07)

Initial Displacement: 0.615 m
Total Well Penetration Depth: 3. m
Casing Radius: 0.025 m
Static Water Column Height: 2.187 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 72.5 m/day y0 = 0.6053 m



FALLING HEAD 01

Data Set: \...\ID13-GWBH08_FH01_BR.aqt
Date: 05/22/17 Time: 15:13:02

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH08
Test Date: 05/04/2017

AQUIFER DATA

Saturated Thickness: 13.15 m Anisotropy Ratio (Kz/Kr): 0.2

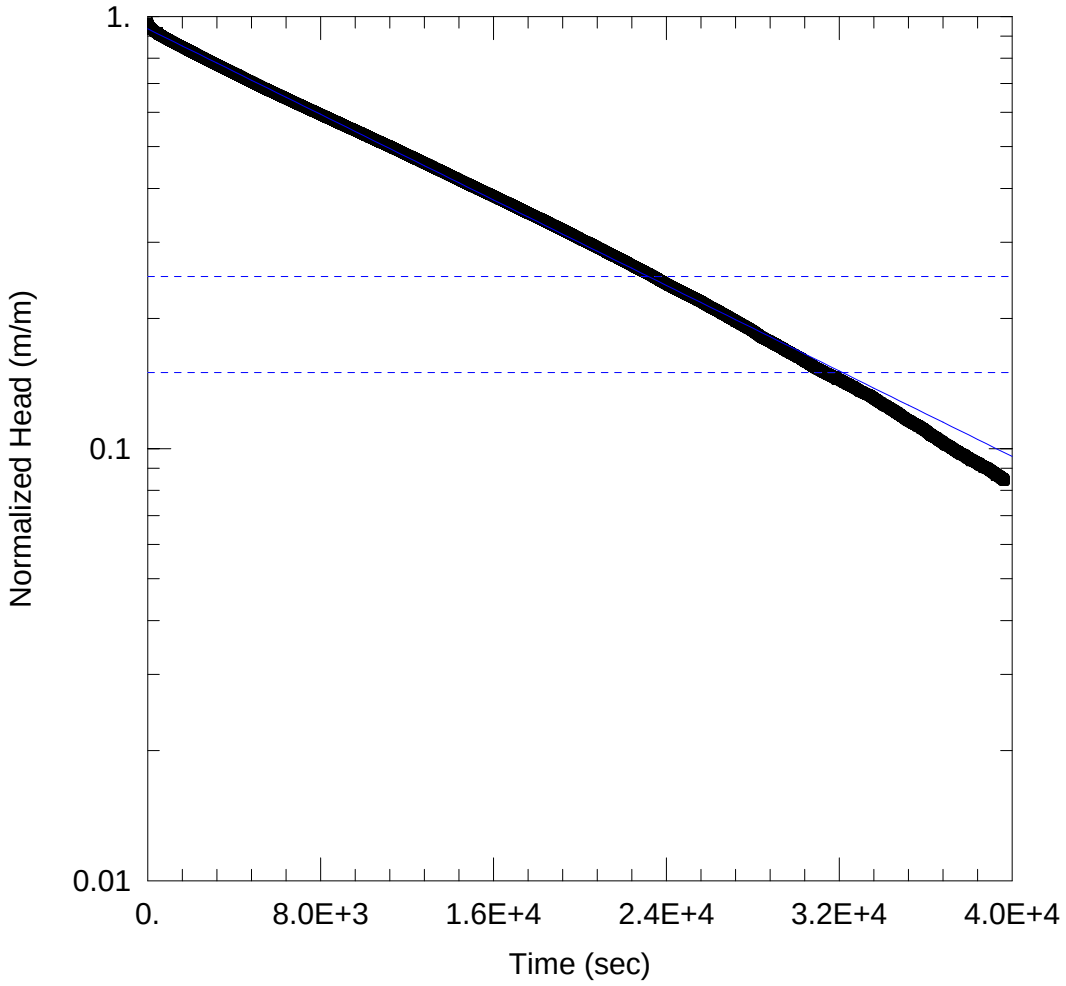
WELL DATA (ID13-GWBH08)

Initial Displacement: 0.727 m
Total Well Penetration Depth: 8.152 m
Casing Radius: 0.025 m
Static Water Column Height: 8.152 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.00966 m/day y0 = 0.7044 m



FALLING HEAD 01

Data Set: \...\ID13-GWBH08_FH01_Hv.aqt
Date: 05/22/17 Time: 15:12:52

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH08
Test Date: 05/04/2017

AQUIFER DATA

Saturated Thickness: 13.15 m Anisotropy Ratio (Kz/Kr): 0.2

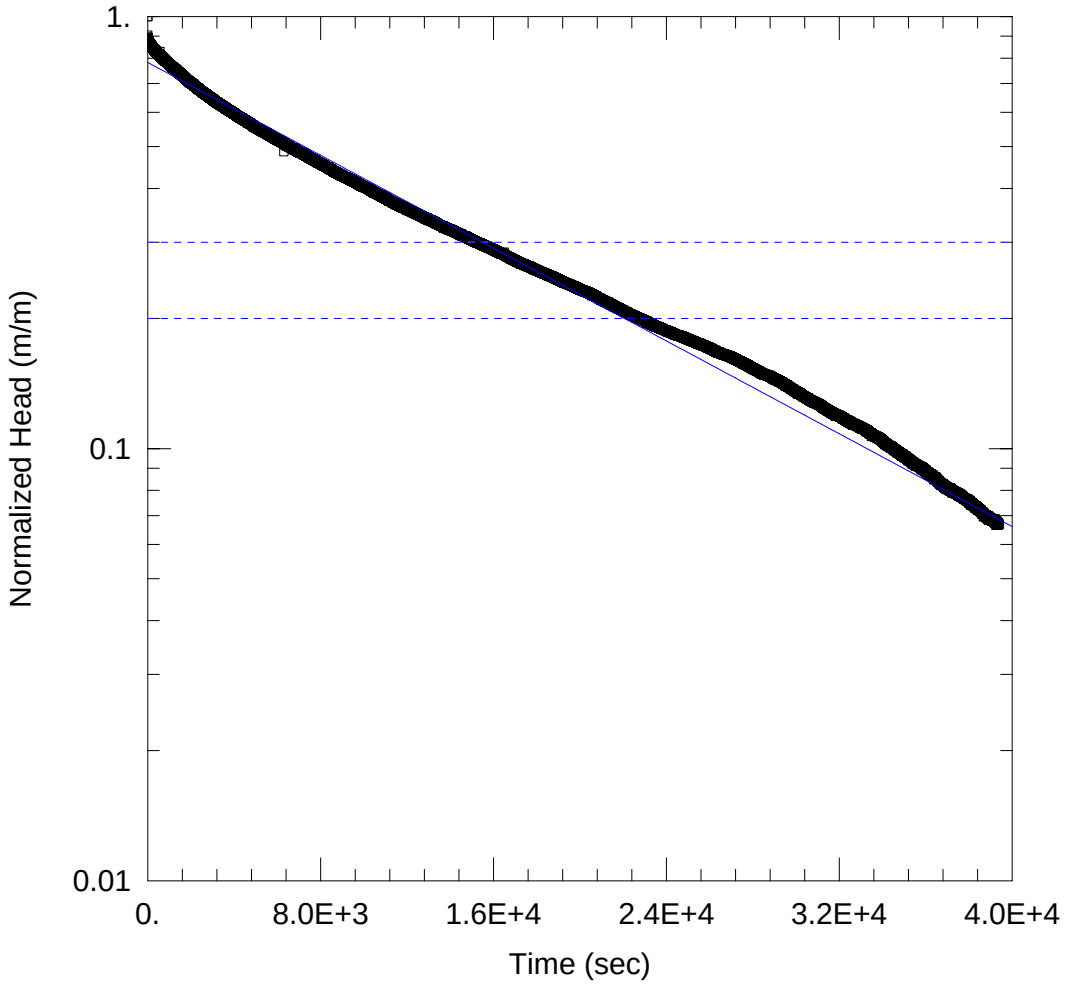
WELL DATA (ID13-GWBH08)

Initial Displacement: 0.727 m
Total Well Penetration Depth: 8.152 m
Casing Radius: 0.025 m
Static Water Column Height: 8.152 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.01186 m/day y0 = 0.6806 m



FALLING HEAD 02

Data Set: \...\ID13-GWBH08_FH02_BR.aqt
Date: 05/22/17 Time: 15:12:38

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH08
Test Date: 05/04/2017

AQUIFER DATA

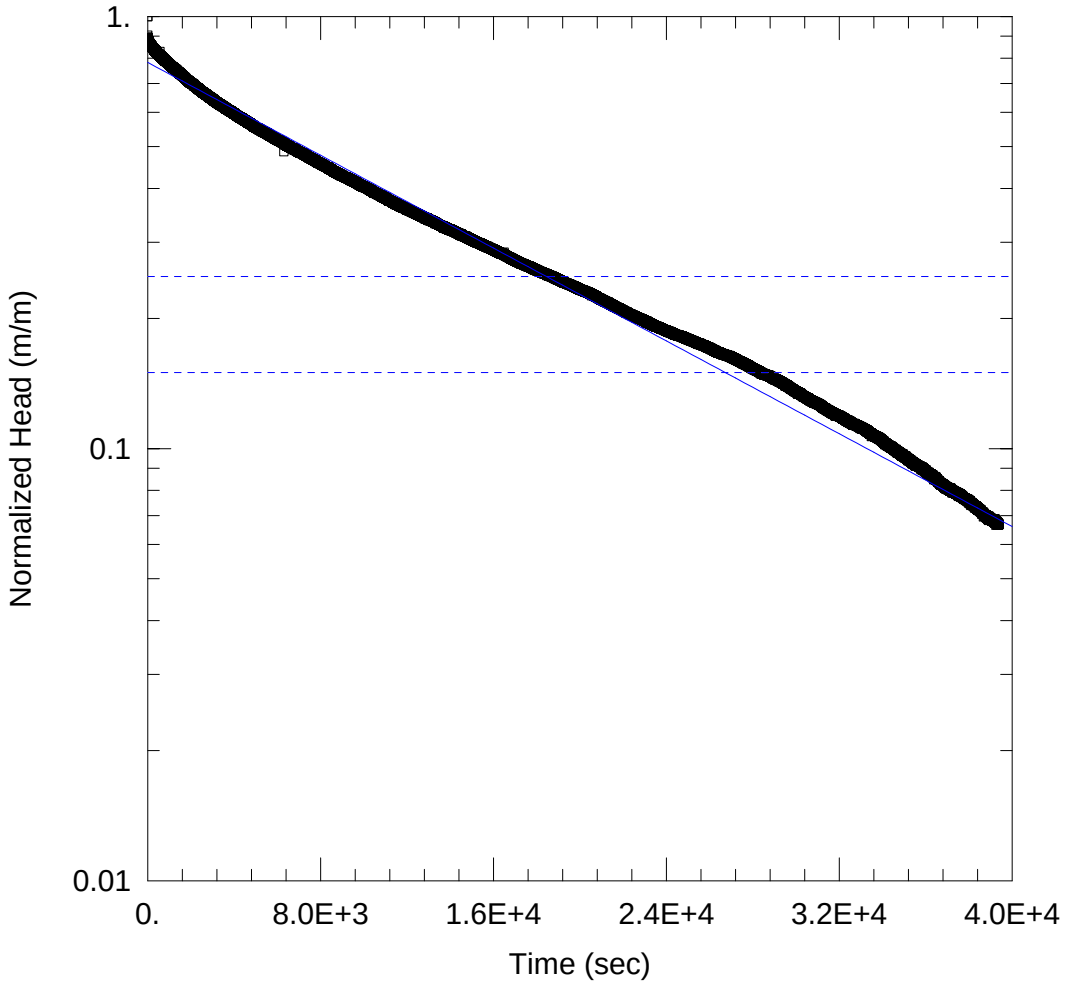
Saturated Thickness: 13.15 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID13-GWBH08)

Initial Displacement: 0.8052 m
Total Well Penetration Depth: 8.152 m
Casing Radius: 0.025 m
Static Water Column Height: 8.152 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.01004 m/day
y0 = 0.6299 m



FALLING HEAD 02

Data Set: \...\ID13-GWBH08_FH02_Hv.aqt
Date: 05/22/17 Time: 15:12:28

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH08
Test Date: 05/04/2017

AQUIFER DATA

Saturated Thickness: 13.15 m Anisotropy Ratio (Kz/Kr): 0.2

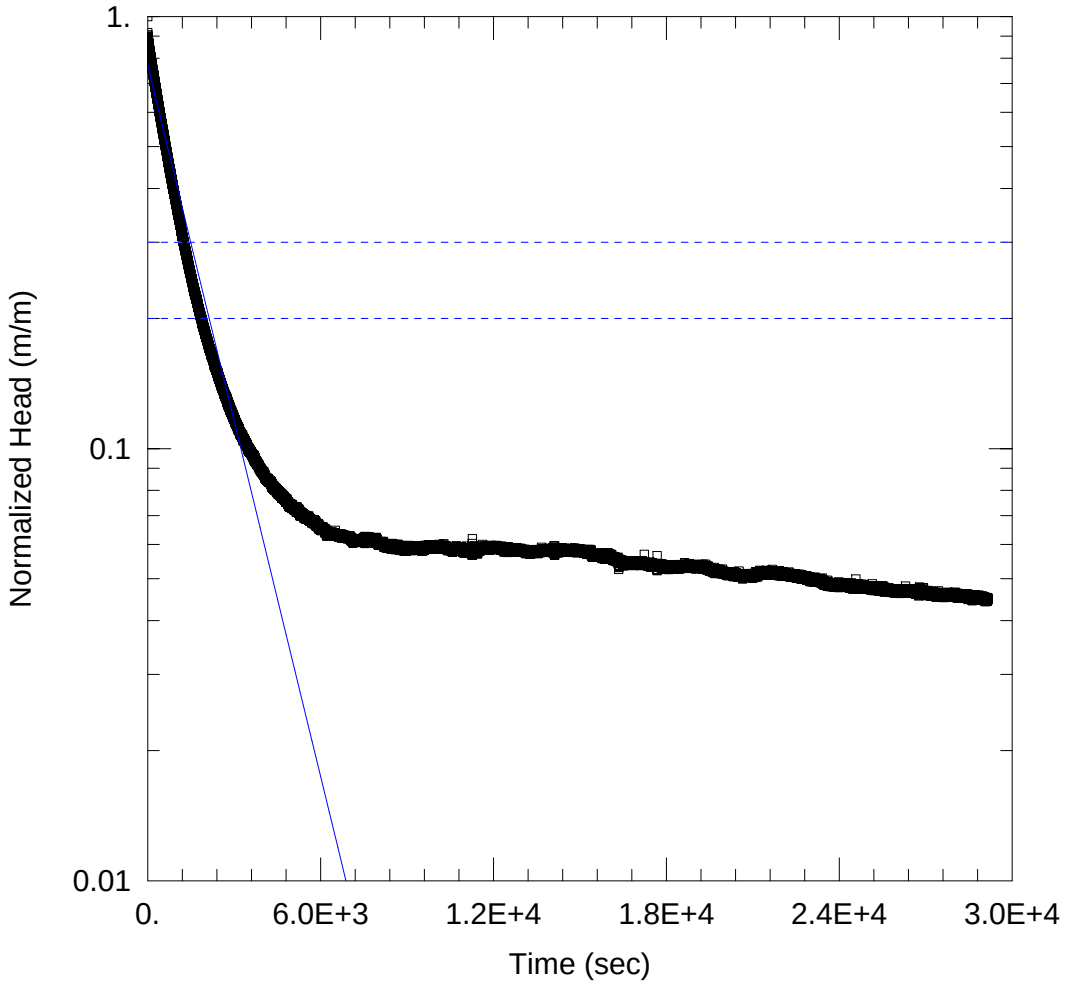
WELL DATA (ID13-GWBH08)

Initial Displacement: 0.8052 m
Total Well Penetration Depth: 8.152 m
Casing Radius: 0.025 m
Static Water Column Height: 8.152 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev

K = 0.01287 m/day
y0 = 0.6299 m



RISING HEAD 01

Data Set: \...\ID13-GWBH08_RH01_BR.aqt
Date: 05/22/17 Time: 15:12:18

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH08
Test Date: 11.05.17

AQUIFER DATA

Saturated Thickness: 13.15 m Anisotropy Ratio (Kz/Kr): 0.2

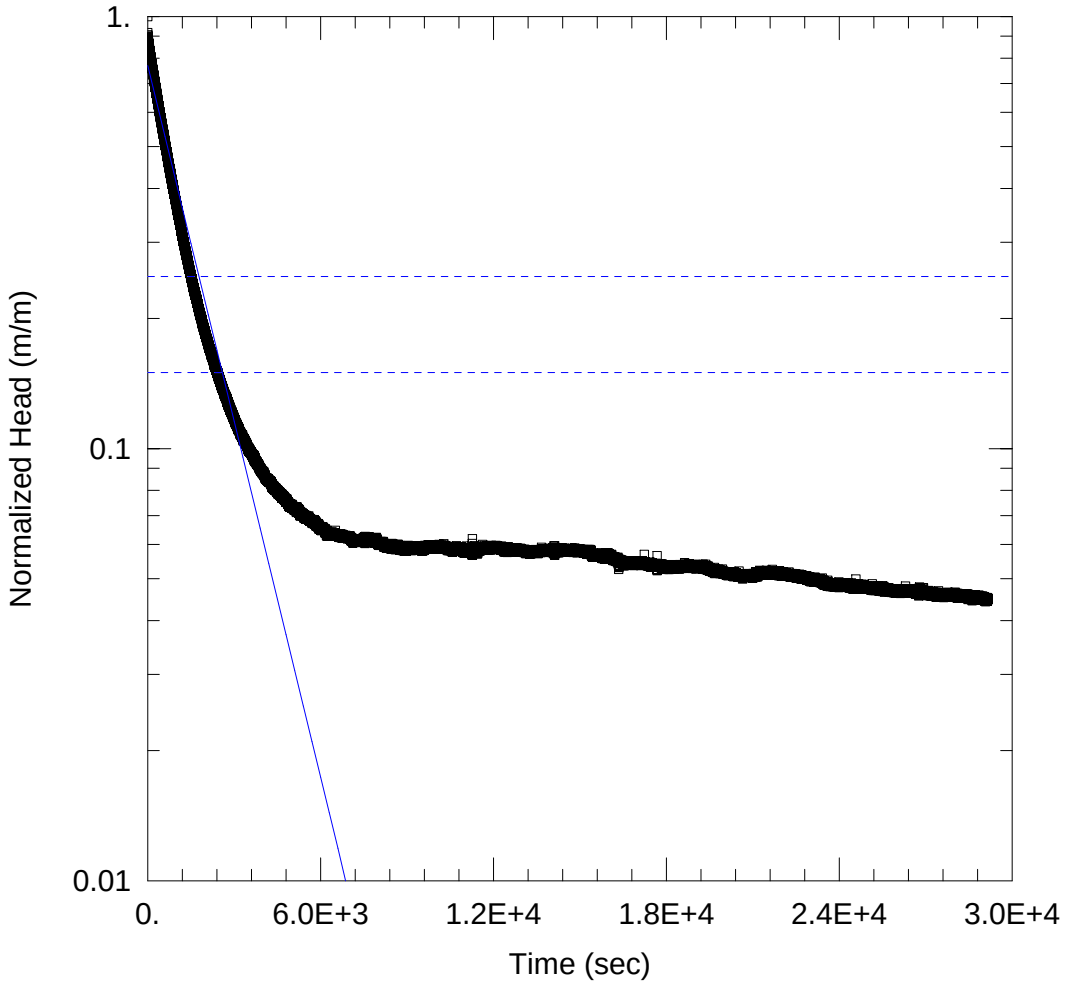
WELL DATA (ID13-GWBH08)

Initial Displacement: 0.8052 m
Total Well Penetration Depth: 8.152 m
Casing Radius: 0.025 m
Static Water Column Height: 8.152 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.1025 m/day
y0 = 0.6194 m



RISING HEAD 01

Data Set: \...\ID13-GWBH08_RH01_Hv.aqt
Date: 05/22/17 Time: 15:12:09

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID13-GWBH08
Test Date: 11.05.17

AQUIFER DATA

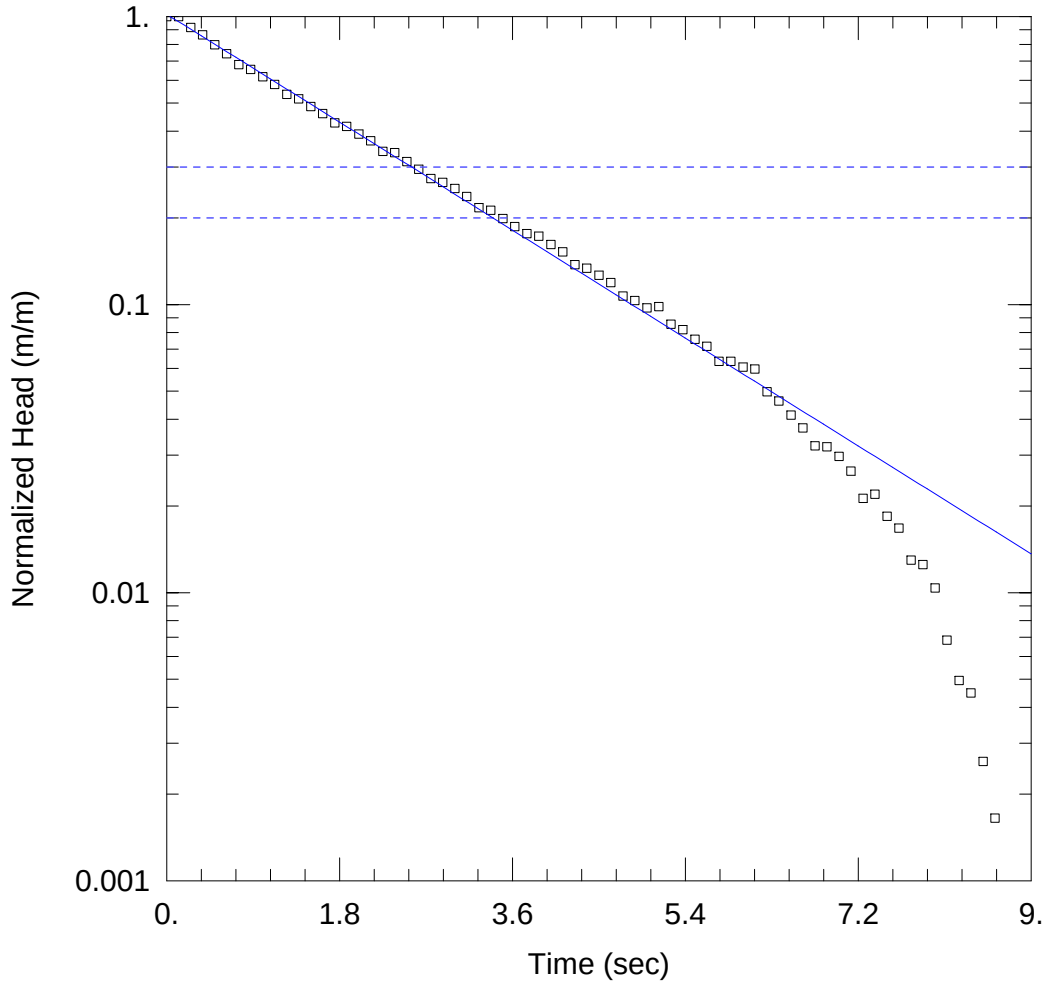
Saturated Thickness: 13.15 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID13-GWBH08)

Initial Displacement: 0.8052 m
Total Well Penetration Depth: 8.152 m
Casing Radius: 0.025 m
Static Water Column Height: 8.152 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.1316 m/day
y0 = 0.6199 m



RISING HEAD 02

Data Set: \...\ID18-GWBH01_FH02_BR.aqt
Date: 05/22/17 Time: 16:14:18

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH01
Test Date: 20/04/2017

AQUIFER DATA

Saturated Thickness: 9.109 m Anisotropy Ratio (Kz/Kr): 0.2

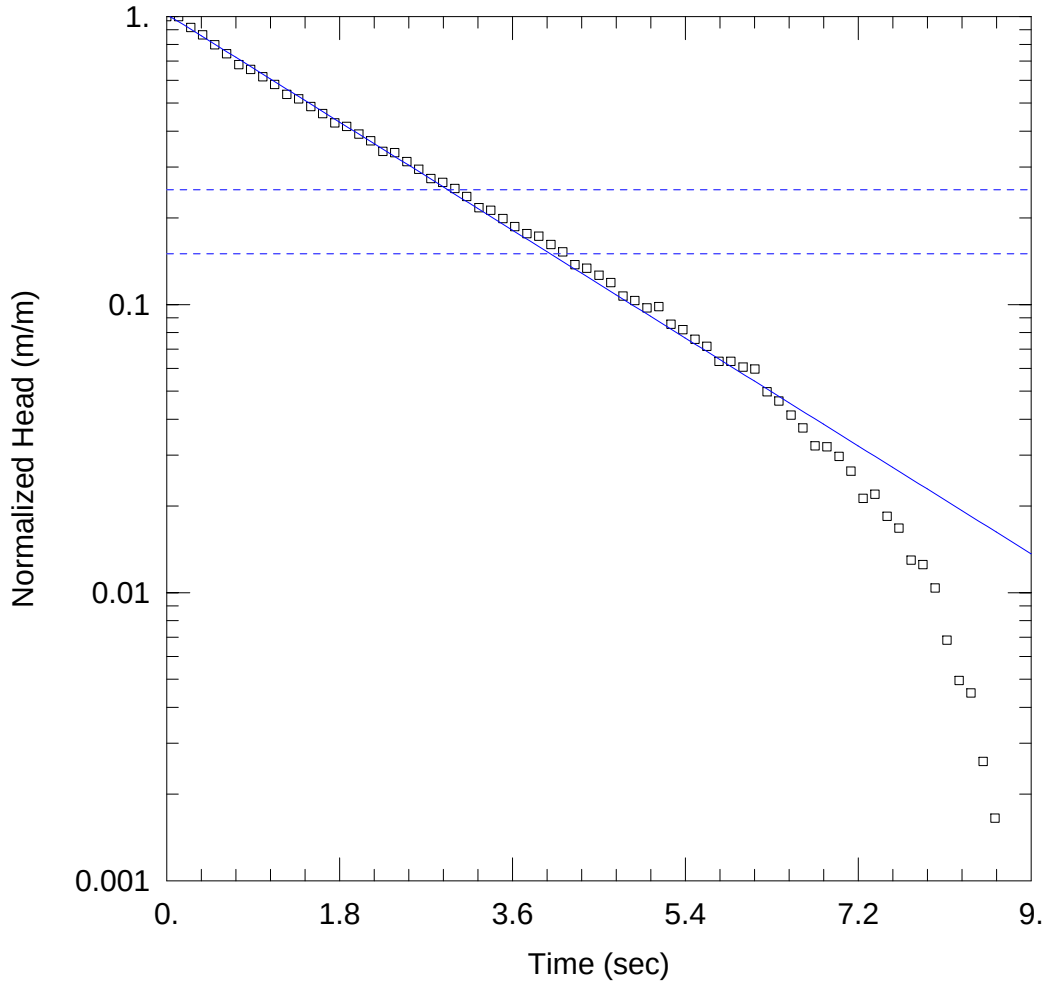
WELL DATA (ID18-GWBH01)

Initial Displacement: 0.424 m
Total Well Penetration Depth: 4.011 m
Casing Radius: 0.025 m
Static Water Column Height: 4.109 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 70.08 m/day y0 = 0.4315 m



RISING HEAD 02

Data Set: \...\ID18-GWBH01_FH02_Hv.aqt
Date: 05/22/17 Time: 16:14:14

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH01
Test Date: 20/04/2017

AQUIFER DATA

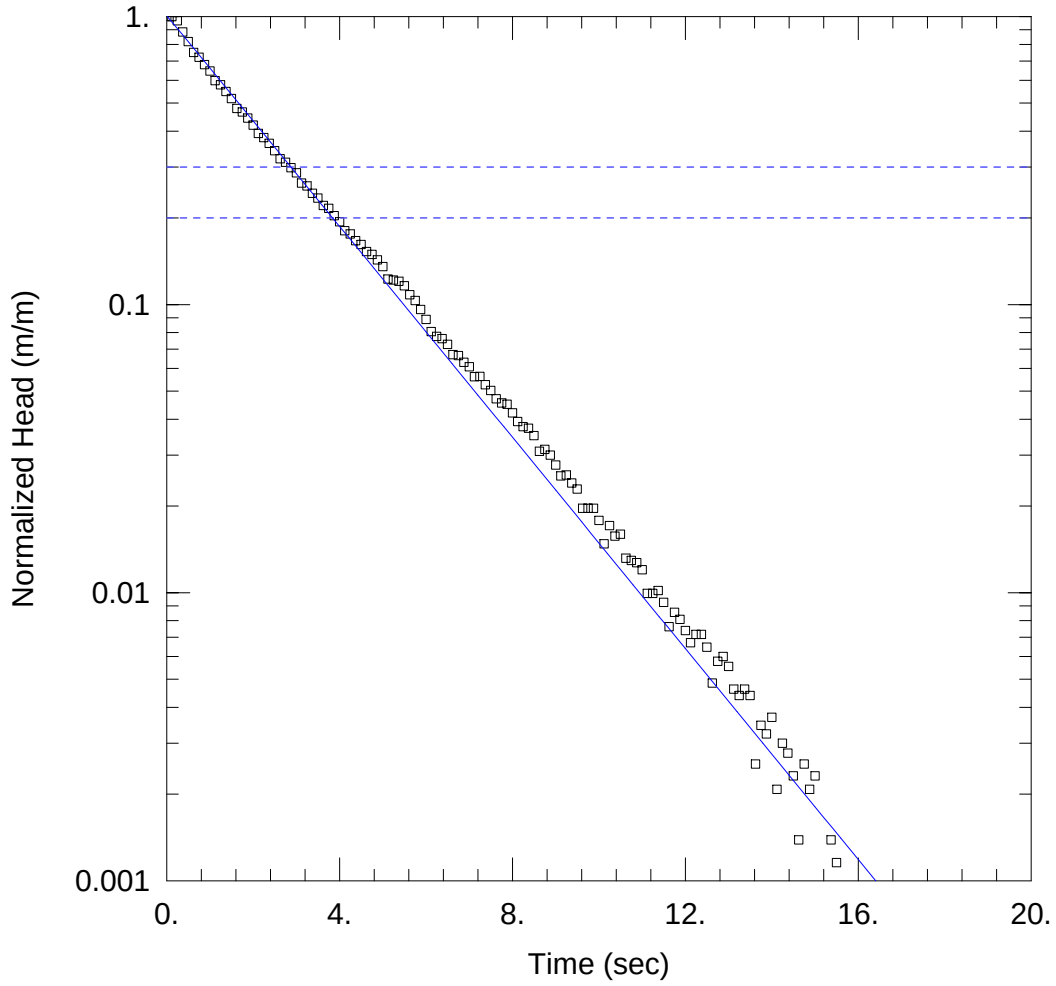
Saturated Thickness: 9.109 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID18-GWBH01)

Initial Displacement: 0.424 m
Total Well Penetration Depth: 4.011 m
Casing Radius: 0.025 m
Static Water Column Height: 4.109 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 99.73 m/day
y0 = 0.4315 m



RISING HEAD 01

Data Set: \...\ID18-GWBH01_RH01_BR.aqt
Date: 05/22/17 Time: 16:14:09

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH01
Test Date: 20/04/2017

AQUIFER DATA

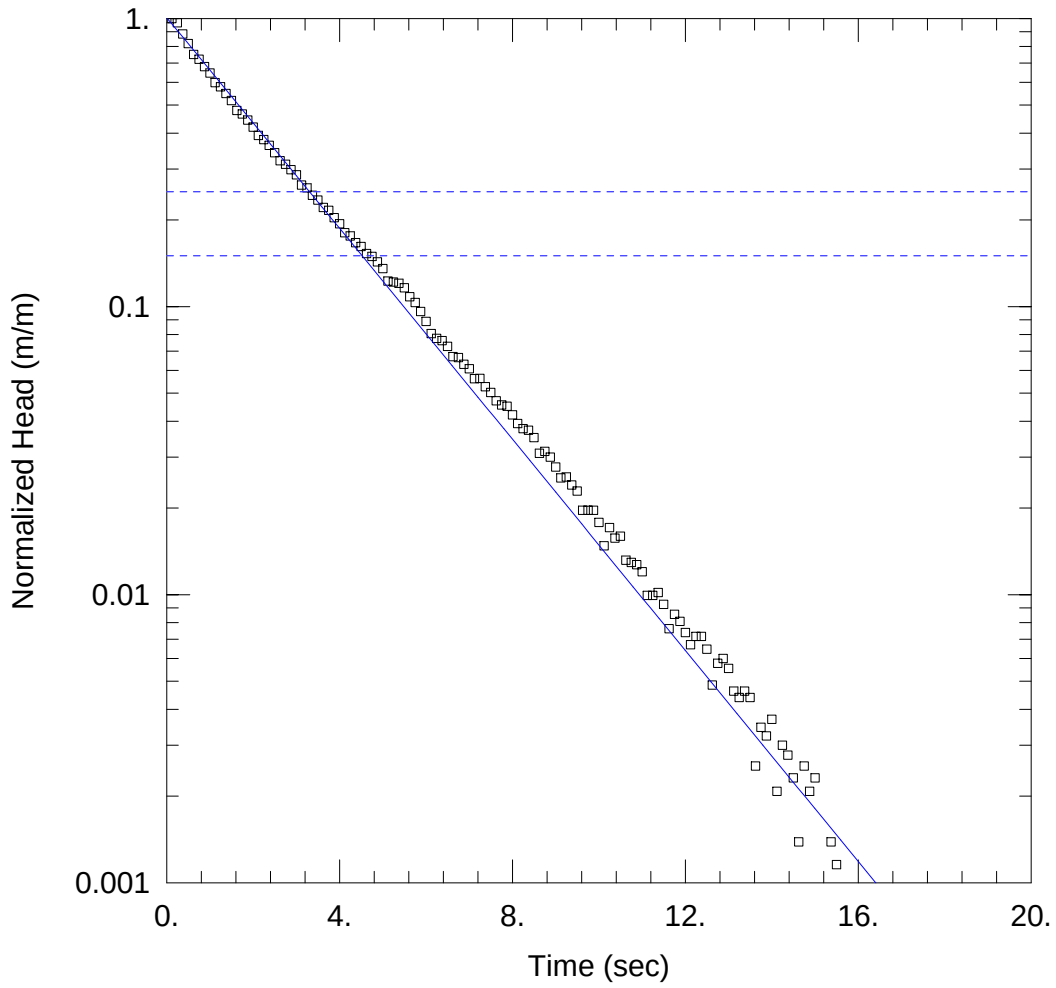
Saturated Thickness: 9.109 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID18-GWBH01)

Initial Displacement: 0.433 m
Total Well Penetration Depth: 4.011 m
Casing Radius: 0.025 m
Static Water Column Height: 4.109 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 61.66 m/day
y0 = 0.4362 m



RISING HEAD 01

Data Set: \...\ID18-GWBH01_RH01_Hv.aqt
Date: 05/22/17 Time: 16:14:03

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH01
Test Date: 20/04/2017

AQUIFER DATA

Saturated Thickness: 9.109 m Anisotropy Ratio (Kz/Kr): 0.2

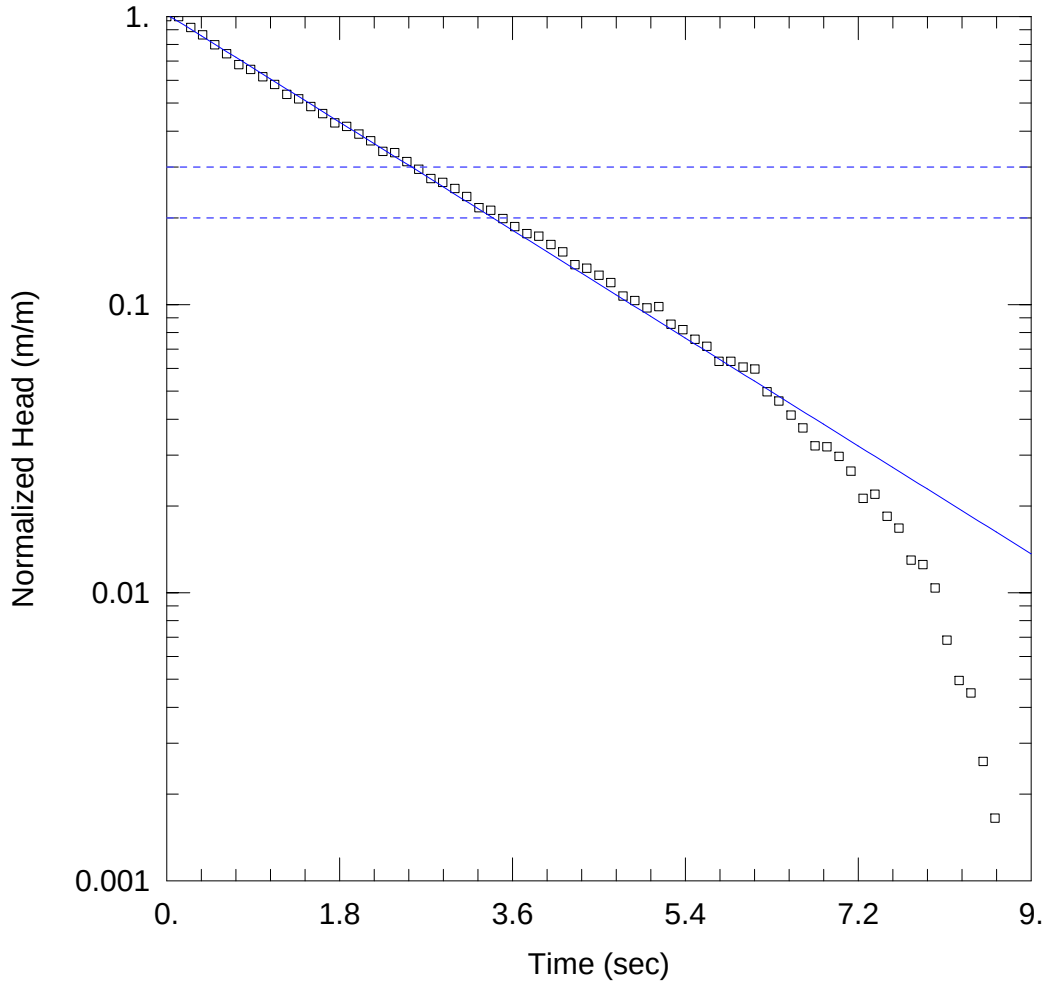
WELL DATA (ID18-GWBH01)

Initial Displacement: 0.433 m
Total Well Penetration Depth: 4.011 m
Casing Radius: 0.025 m
Static Water Column Height: 4.109 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 87.74 m/day y0 = 0.4362 m



RISING HEAD 02

Data Set: \...\ID18-GWBH01_RH02_BR.aqt
Date: 05/22/17 Time: 16:13:54

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH01
Test Date: 20/04/2017

AQUIFER DATA

Saturated Thickness: 9.109 m Anisotropy Ratio (Kz/Kr): 0.2

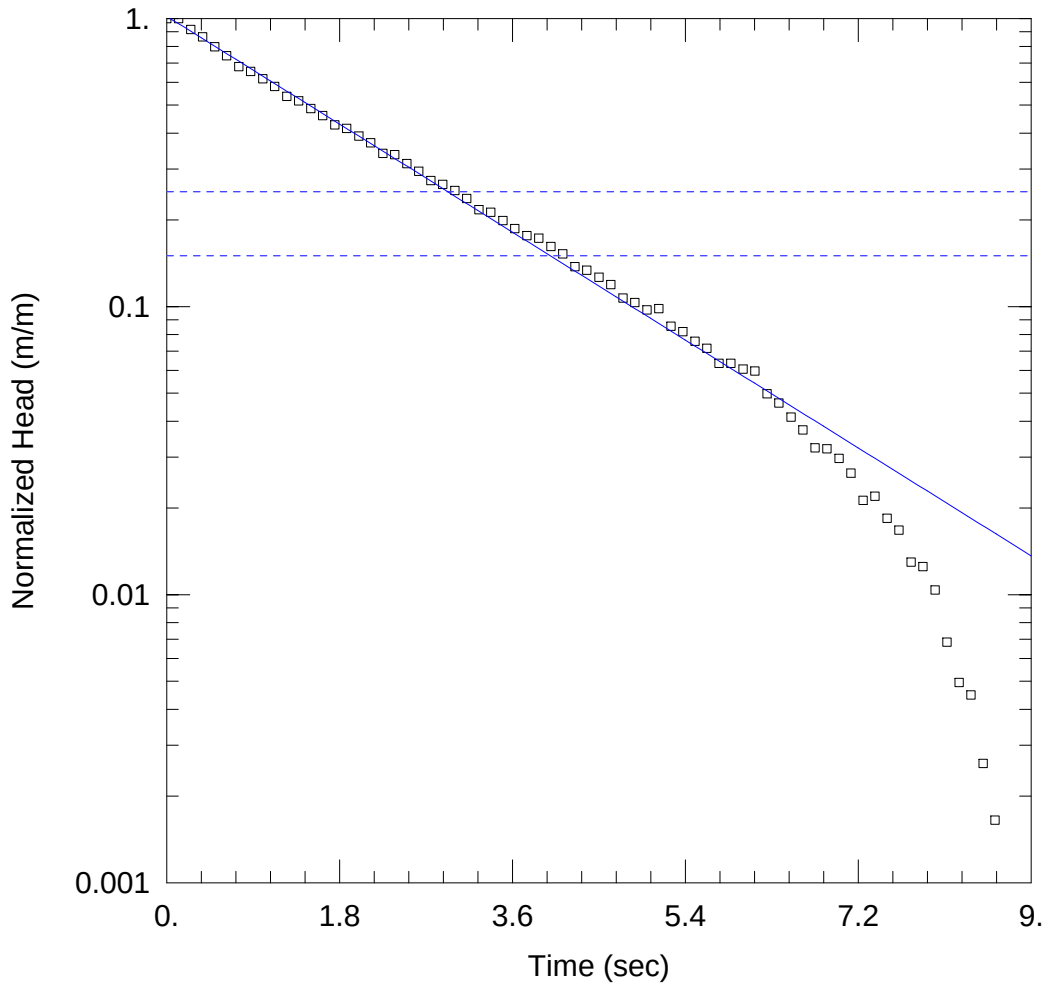
WELL DATA (ID18-GWBH01)

Initial Displacement: 0.424 m
Total Well Penetration Depth: 4.011 m
Casing Radius: 0.025 m
Static Water Column Height: 4.109 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 70.08 m/day y0 = 0.4315 m



RISING HEAD 02

Data Set: \...\ID18-GWBH01_RH02_Hv.aqt
Date: 05/22/17 Time: 16:13:49

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH01
Test Date: 20/04/2017

AQUIFER DATA

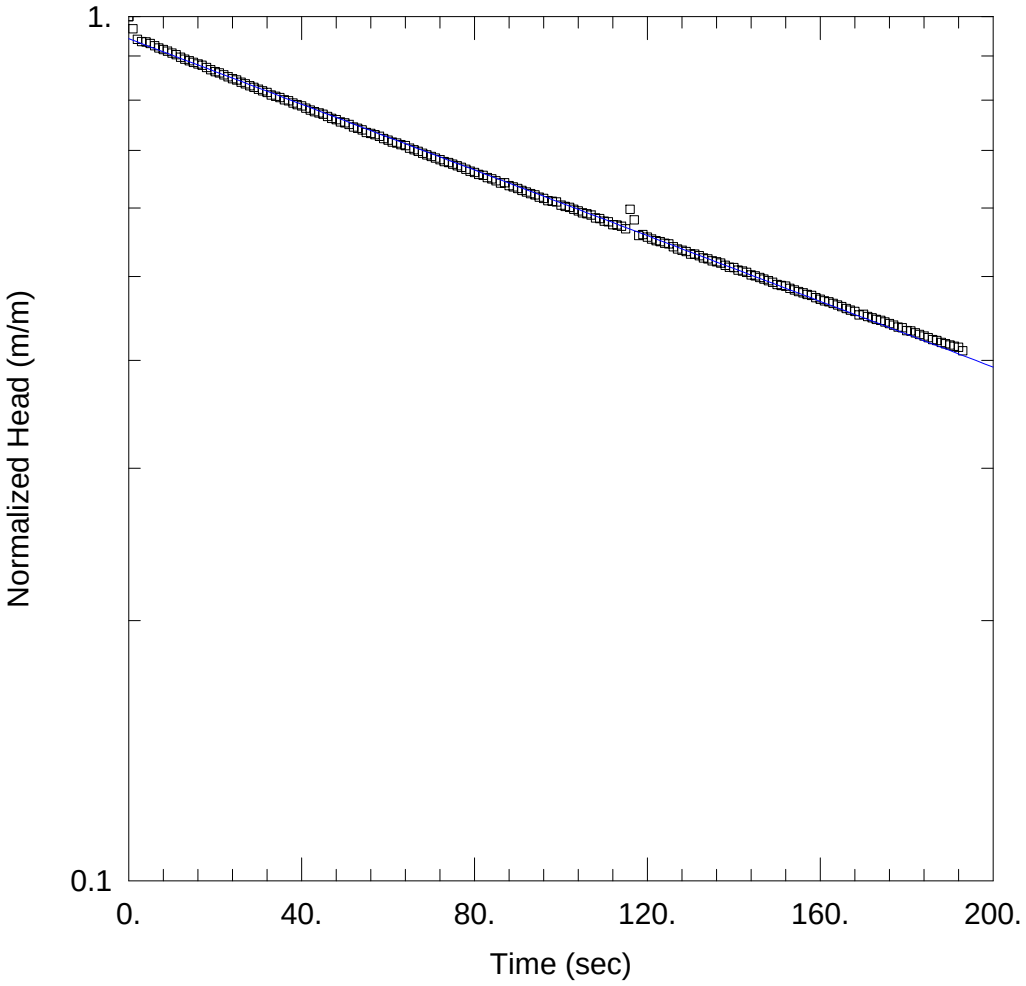
Saturated Thickness: 9.109 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID18-GWBH01)

Initial Displacement: 0.424 m
Total Well Penetration Depth: 4.011 m
Casing Radius: 0.025 m
Static Water Column Height: 4.109 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 99.73 m/day
y0 = 0.4315 m



FALLING HEAD 01

Data Set: \...\ID18-GWBH02_FH01_BR.aqt
Date: 05/22/17 Time: 16:20:45

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH02
Test Date: 03/04/2017

AQUIFER DATA

Saturated Thickness: 29.92 m Anisotropy Ratio (Kz/Kr): 0.2

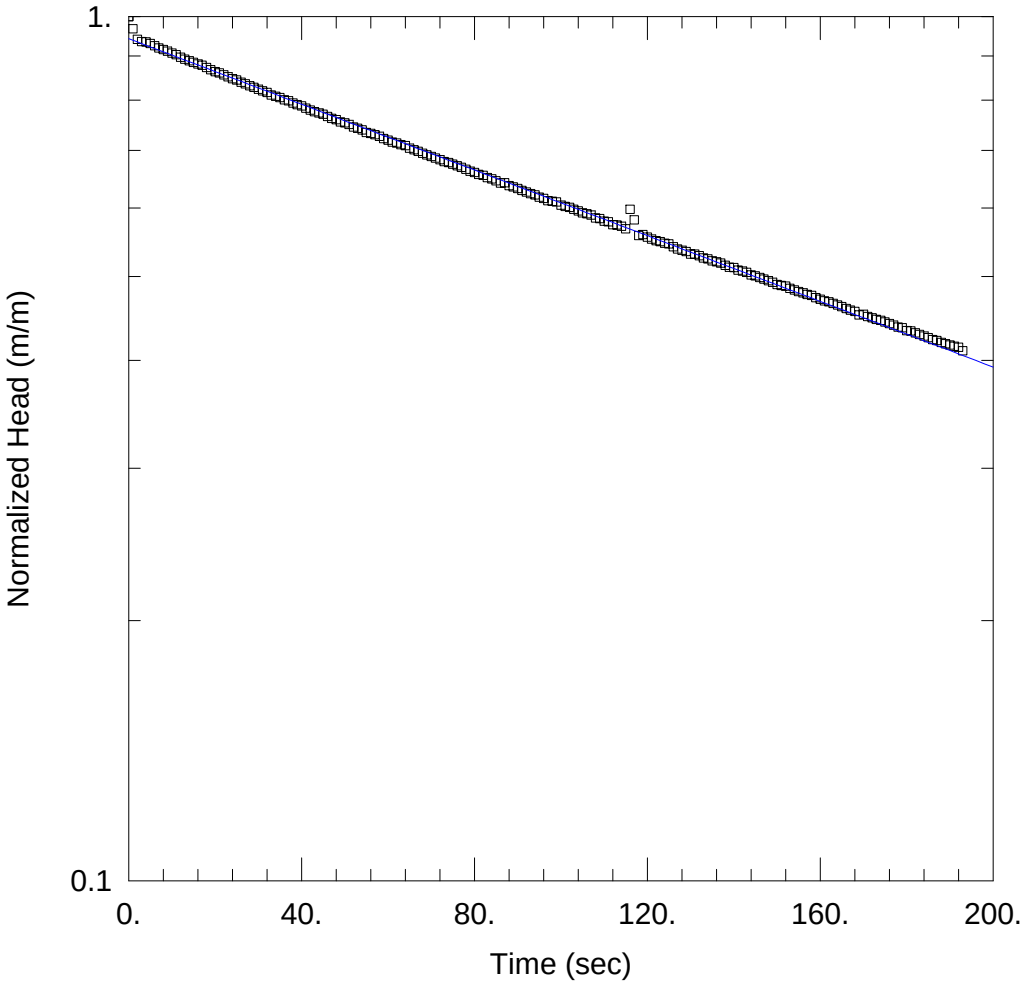
WELL DATA (ID18-GWBH02)

Initial Displacement: 0.6724 m
Total Well Penetration Depth: 24.92 m
Casing Radius: 0.025 m
Static Water Column Height: 24.92 m
Screen Length: 7. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.3893 m/day y0 = 0.6337 m



FALLING HEAD 01

Data Set: \...\ID18-GWBH02_FH01_Hv.aqt
Date: 05/22/17 Time: 16:20:40

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH02
Test Date: 03/04/2017

AQUIFER DATA

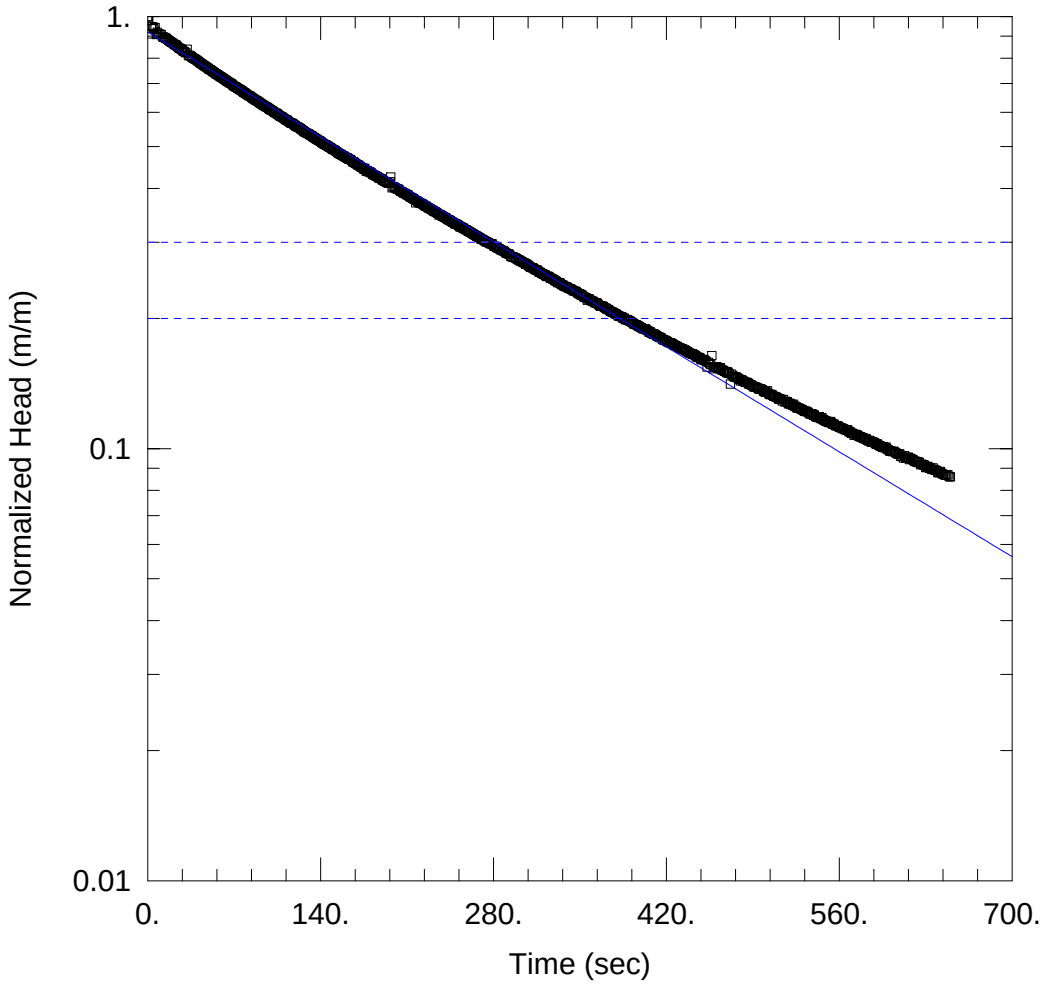
Saturated Thickness: 29.92 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID18-GWBH02)

Initial Displacement: 0.6724 m
Total Well Penetration Depth: 24.92 m
Casing Radius: 0.025 m
Static Water Column Height: 24.92 m
Screen Length: 7. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.4688 m/day
y0 = 0.6337 m



FALLING HEAD 02

Data Set: \...\ID18-GWBH02_FH02_BR.aqt
Date: 05/22/17 Time: 16:20:35

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH02
Test Date: 03/04/2017

AQUIFER DATA

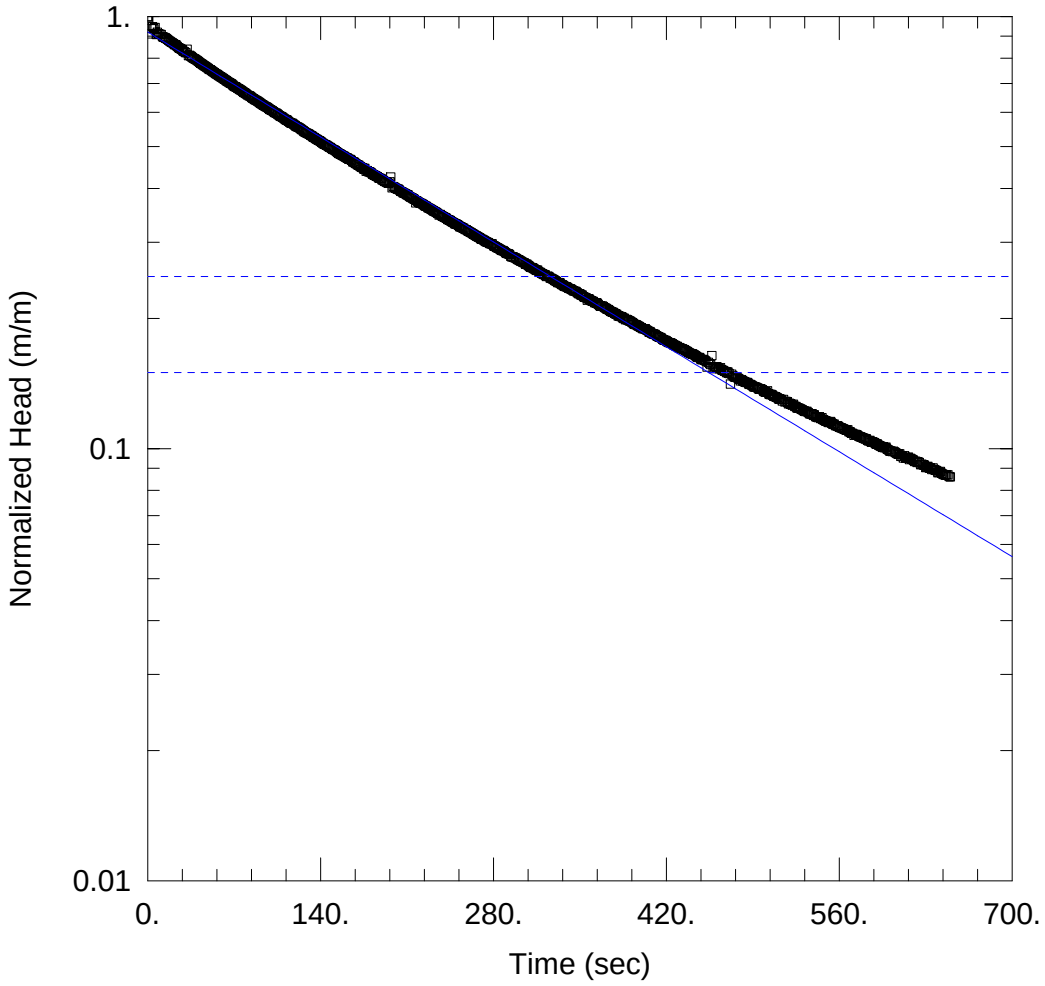
Saturated Thickness: 29.92 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID18-GWBH02)

Initial Displacement: 0.662 m
Total Well Penetration Depth: 24.92 m
Casing Radius: 0.025 m
Static Water Column Height: 24.92 m
Screen Length: 7. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.3554 m/day
y0 = 0.6091 m



FALLING HEAD 02

Data Set: \...\ID18-GWBH02_FH02_Hv.aqt
Date: 05/22/17 Time: 16:20:31

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH02
Test Date: 03/04/2017

AQUIFER DATA

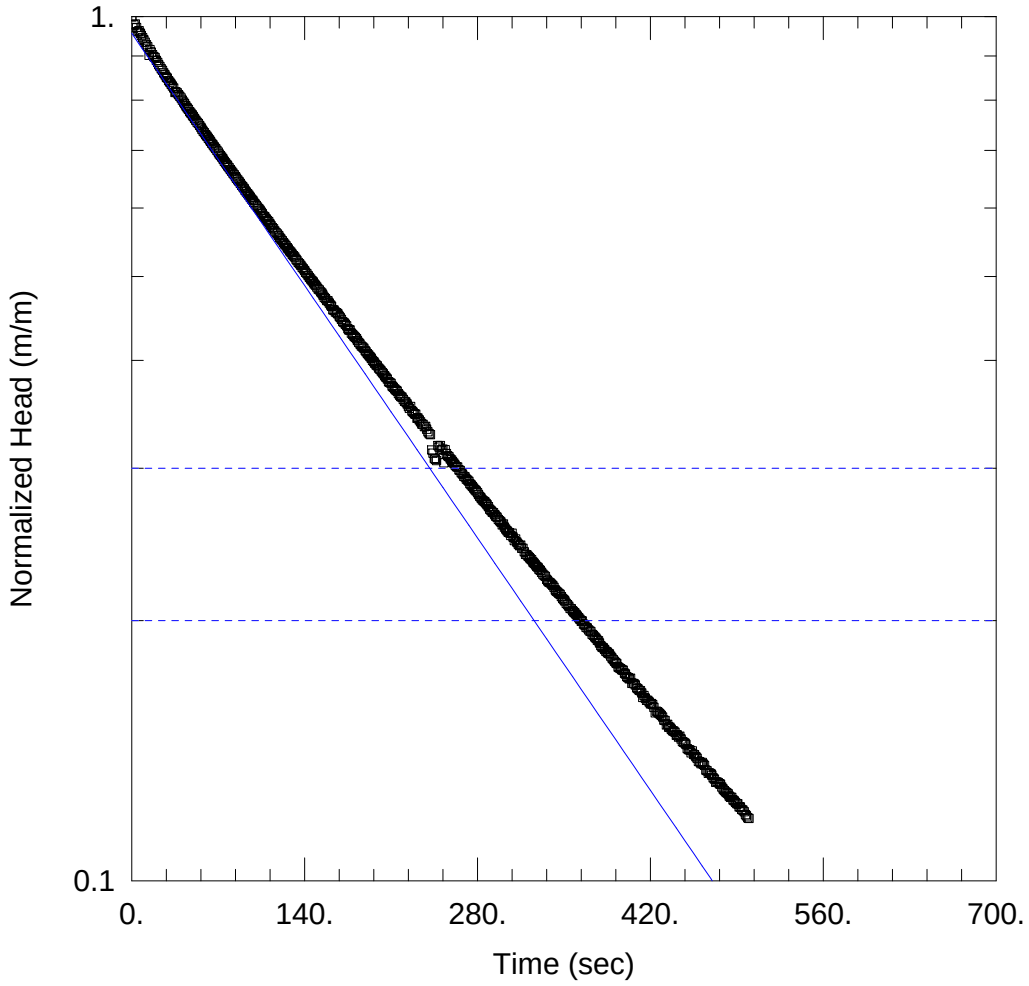
Saturated Thickness: 29.92 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID18-GWBH02)

Initial Displacement: 0.662 m
Total Well Penetration Depth: 24.92 m
Casing Radius: 0.025 m
Static Water Column Height: 24.92 m
Screen Length: 7. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.428 m/day
y0 = 0.609 m



RISING HEAD 01

Data Set: \...\ID18-GWBH02_RH01_BR.aqt
Date: 05/22/17 Time: 16:20:26

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH02
Test Date: 03/04/2017

AQUIFER DATA

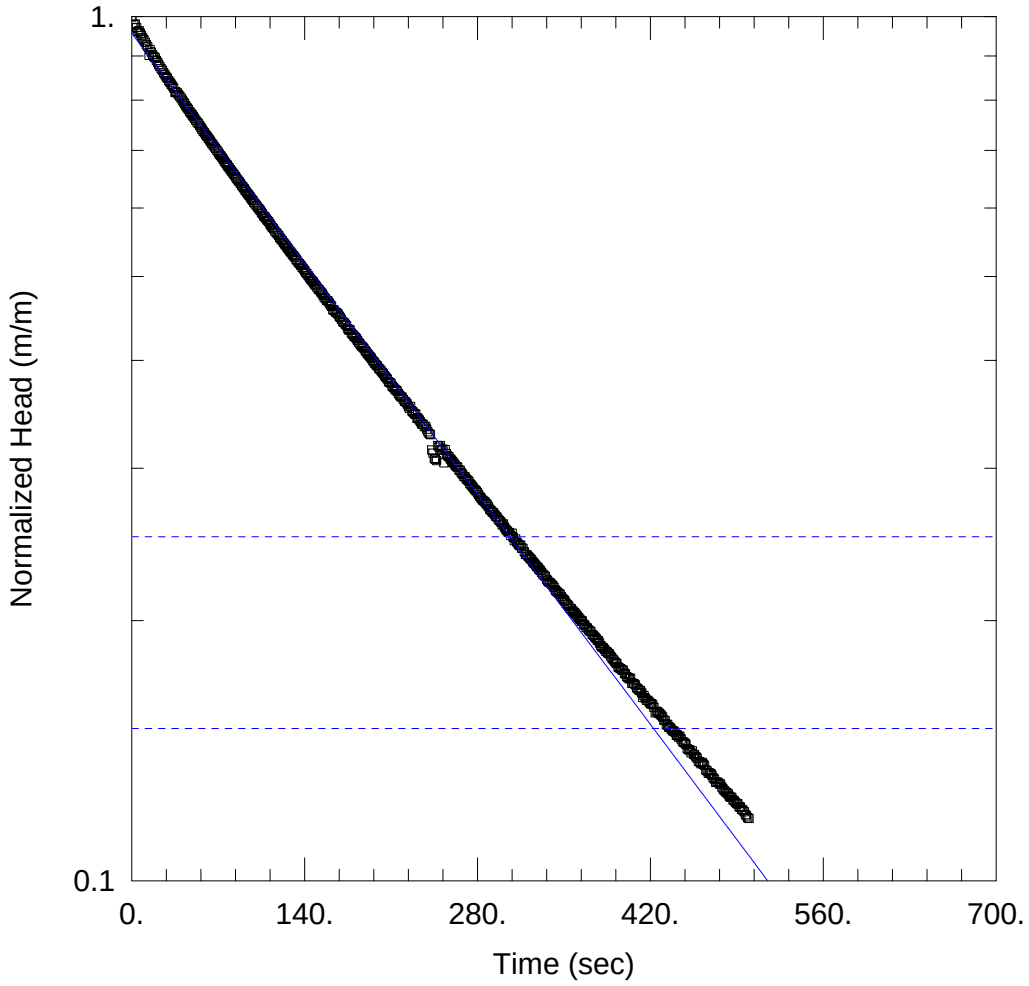
Saturated Thickness: 29.92 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID18-GWBH02)

Initial Displacement: 0.7 m
Total Well Penetration Depth: 24.92 m
Casing Radius: 0.025 m
Static Water Column Height: 24.92 m
Screen Length: 7. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.4274 m/day
y0 = 0.6693 m



RISING HEAD 01

Data Set: \...\ID18-GWBH02_RH01_Hv.aqt
Date: 05/22/17 Time: 16:20:21

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH02
Test Date: 03/04/2017

AQUIFER DATA

Saturated Thickness: 29.92 m Anisotropy Ratio (Kz/Kr): 0.2

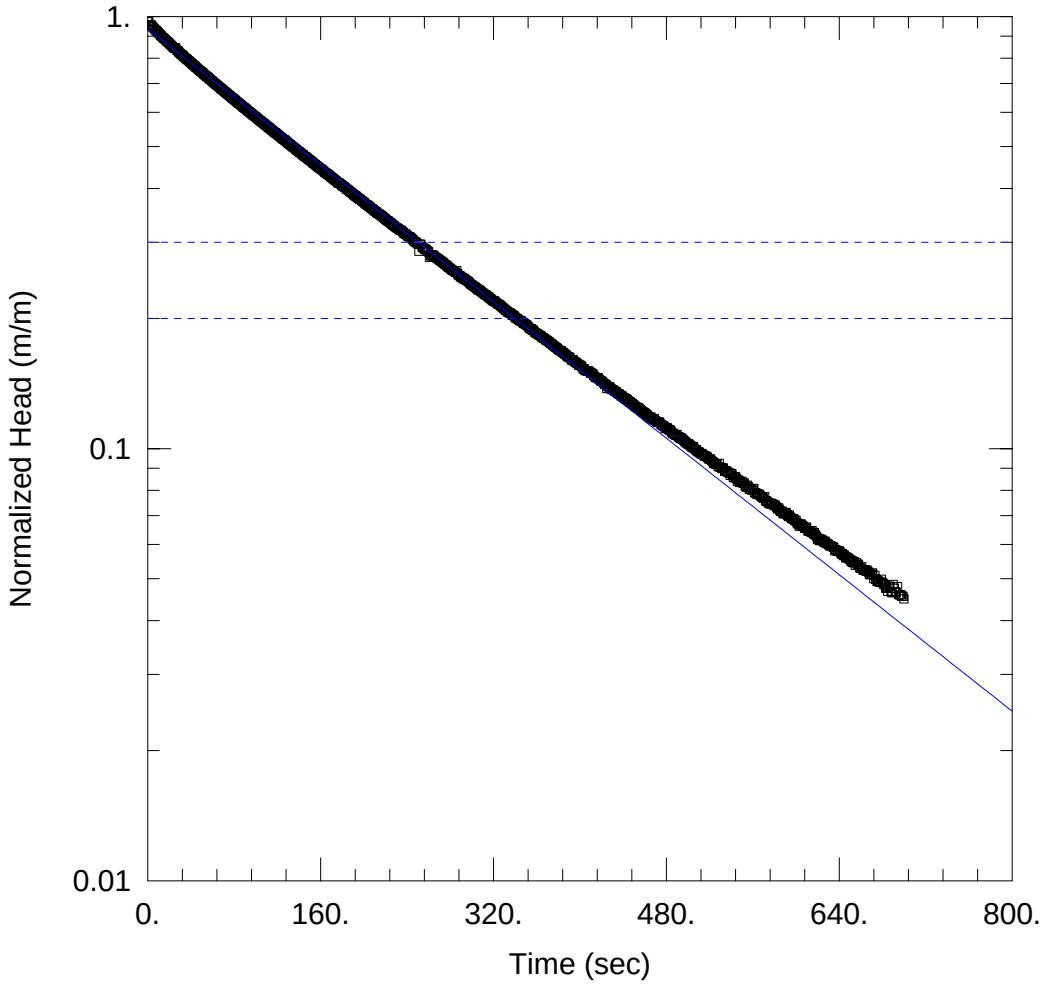
WELL DATA (ID18-GWBH02)

Initial Displacement: 0.7 m
Total Well Penetration Depth: 24.92 m
Casing Radius: 0.025 m
Static Water Column Height: 24.92 m
Screen Length: 7. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.47 m/day y0 = 0.6693 m



RISING HEAD 02

Data Set: \...\ID18-GWBH02_RH02_BR.aqt
Date: 05/22/17 Time: 16:20:16

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH02
Test Date: 03/04/2017

AQUIFER DATA

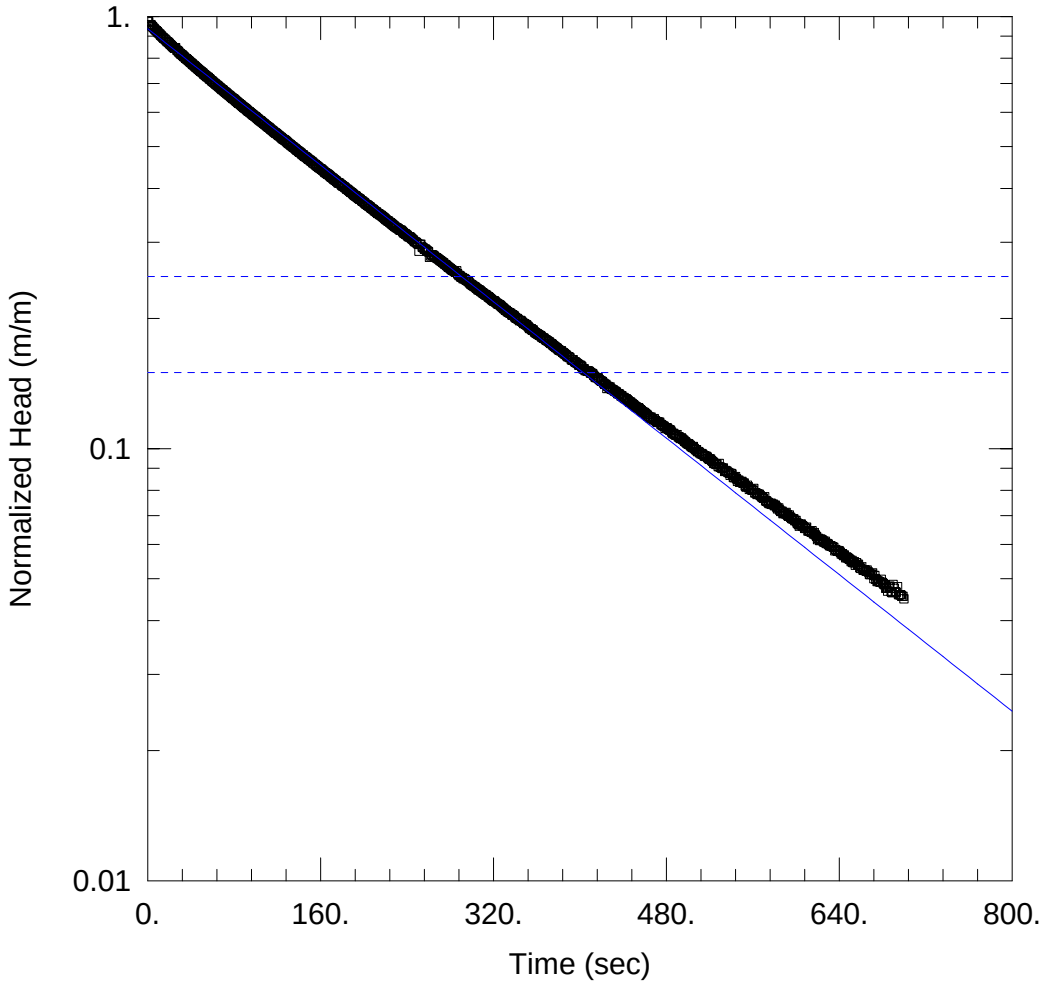
Saturated Thickness: 29.92 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID18-GWBH02)

Initial Displacement: 0.6967 m
Total Well Penetration Depth: 24.92 m
Casing Radius: 0.025 m
Static Water Column Height: 24.92 m
Screen Length: 7. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.4046 m/day
y0 = 0.6524 m



RISING HEAD 02

Data Set: \...\ID18-GWBH02_RH02_Hv.aqt
Date: 05/22/17 Time: 16:20:11

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH02
Test Date: 03/04/2017

AQUIFER DATA

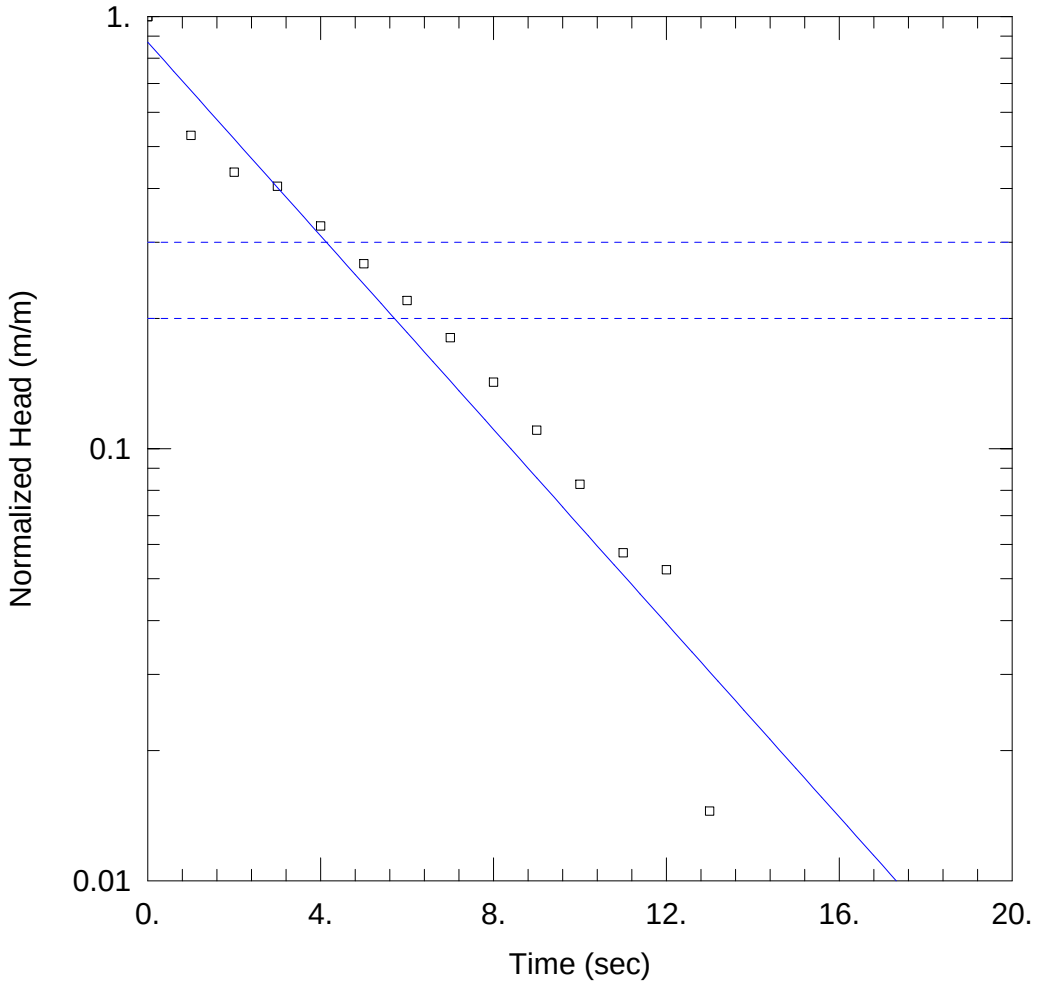
Saturated Thickness: 29.92 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID18-GWBH02)

Initial Displacement: 0.6967 m
Total Well Penetration Depth: 24.92 m
Casing Radius: 0.025 m
Static Water Column Height: 24.92 m
Screen Length: 7. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.4872 m/day
y0 = 0.6523 m



FALLING-HEAD 01

Data Set: \...\ID18-GWBH04_FH01_BR.aqt
Date: 05/22/17 Time: 17:38:03

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH04
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 9.572 m Anisotropy Ratio (Kz/Kr): 0.2

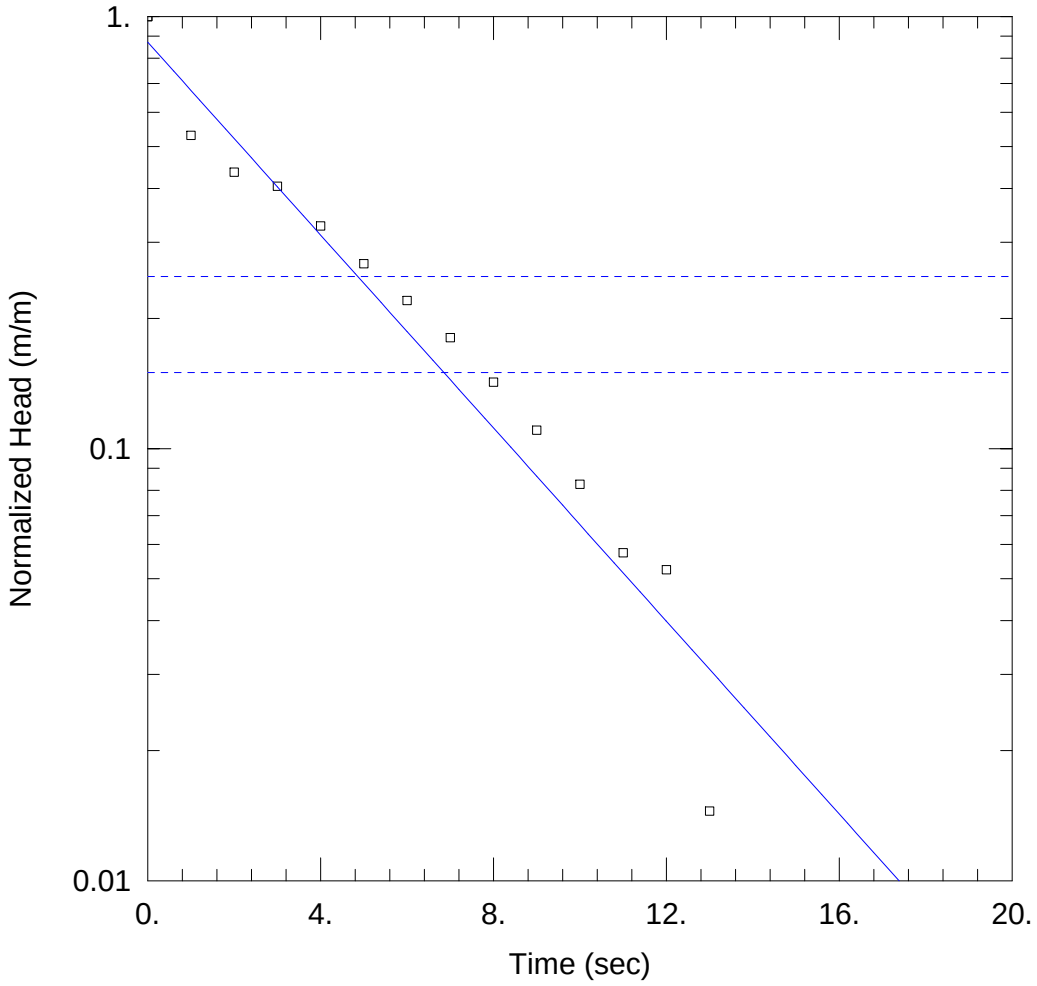
WELL DATA (ID18-GWBH04)

Initial Displacement: 0.469 m
Total Well Penetration Depth: 4.572 m
Casing Radius: 0.025 m
Static Water Column Height: 4.572 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 38.54 m/day
y0 = 0.4088 m



FALLING-HEAD 01

Data Set: \...\ID18-GWBH04_FH01_Hv.aqt
Date: 05/22/17 Time: 17:37:58

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH04
Test Date: 07.03.2017

AQUIFER DATA

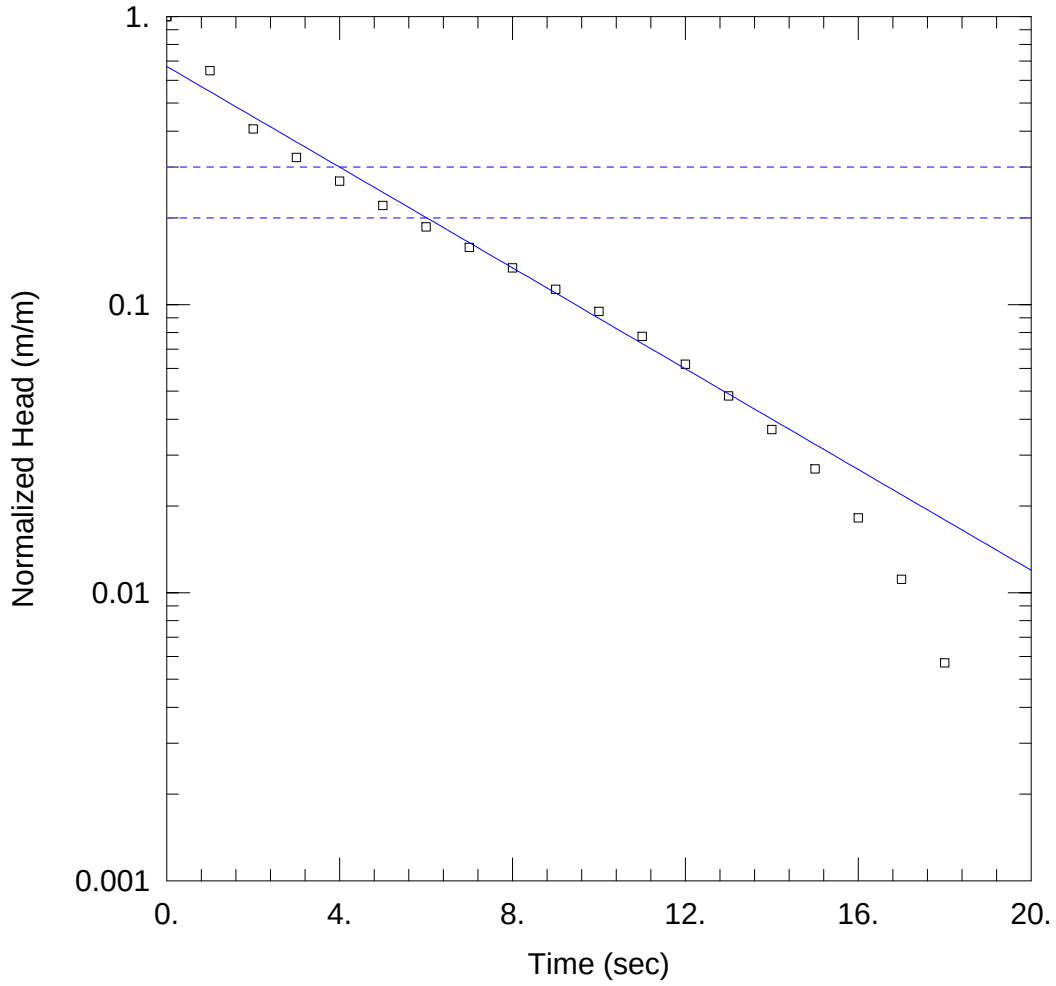
Saturated Thickness: 9.572 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID18-GWBH04)

Initial Displacement: 0.469 m
Total Well Penetration Depth: 4.572 m
Casing Radius: 0.025 m
Static Water Column Height: 4.572 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 53.5 m/day
y0 = 0.4089 m



FALLING-HEAD 02

Data Set: \...\ID18-GWBH04_FH02_BR.aqt
Date: 05/22/17 Time: 17:37:53

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH04
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 9.572 m Anisotropy Ratio (Kz/Kr): 0.2

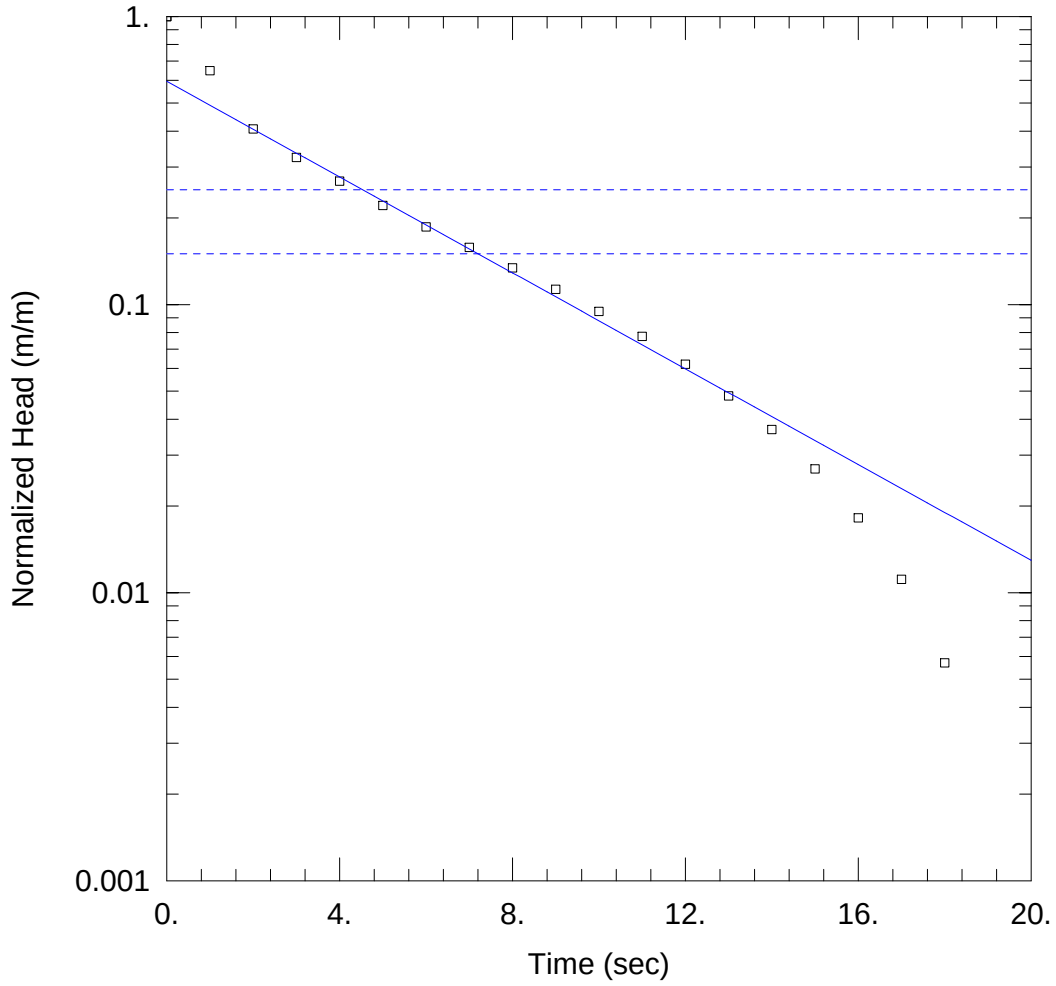
WELL DATA (ID18-GWBH04)

Initial Displacement: 0.666 m
Total Well Penetration Depth: 4.572 m
Casing Radius: 0.025 m
Static Water Column Height: 4.572 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 30.08 m/day y0 = 0.4466 m



FALLING-HEAD 02

Data Set: \...\ID18-GWBH04_FH02_Hv.aqt
Date: 05/22/17 Time: 17:37:49

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH04
Test Date: 07.03.2017

AQUIFER DATA

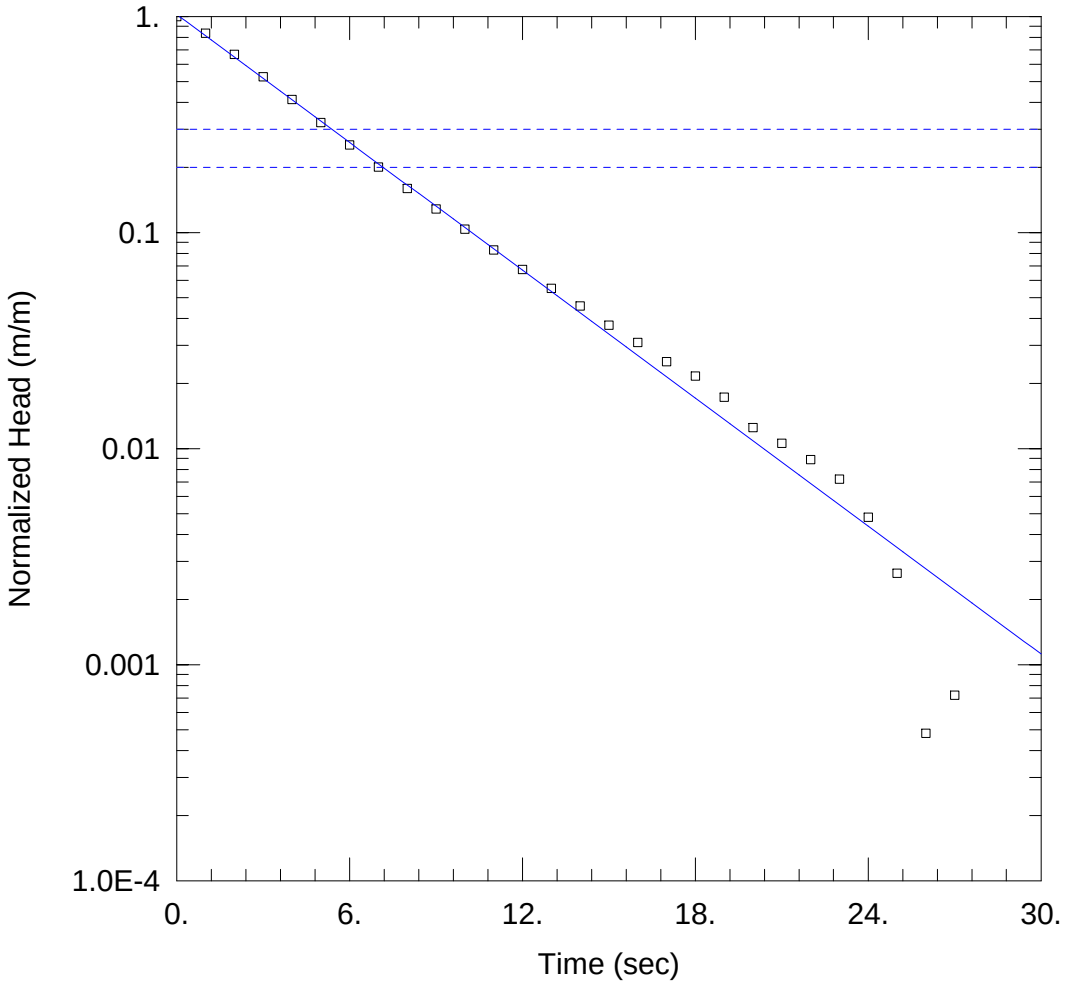
Saturated Thickness: 9.572 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID18-GWBH04)

Initial Displacement: 0.666 m
Total Well Penetration Depth: 4.572 m
Casing Radius: 0.025 m
Static Water Column Height: 4.572 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 39.84 m/day
y0 = 0.3966 m



RISING-HEAD 01

Data Set: \...\ID18-GWBH04_RH01_BR.aqt
Date: 05/22/17 Time: 17:37:43

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH04
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 9.572 m Anisotropy Ratio (Kz/Kr): 0.2

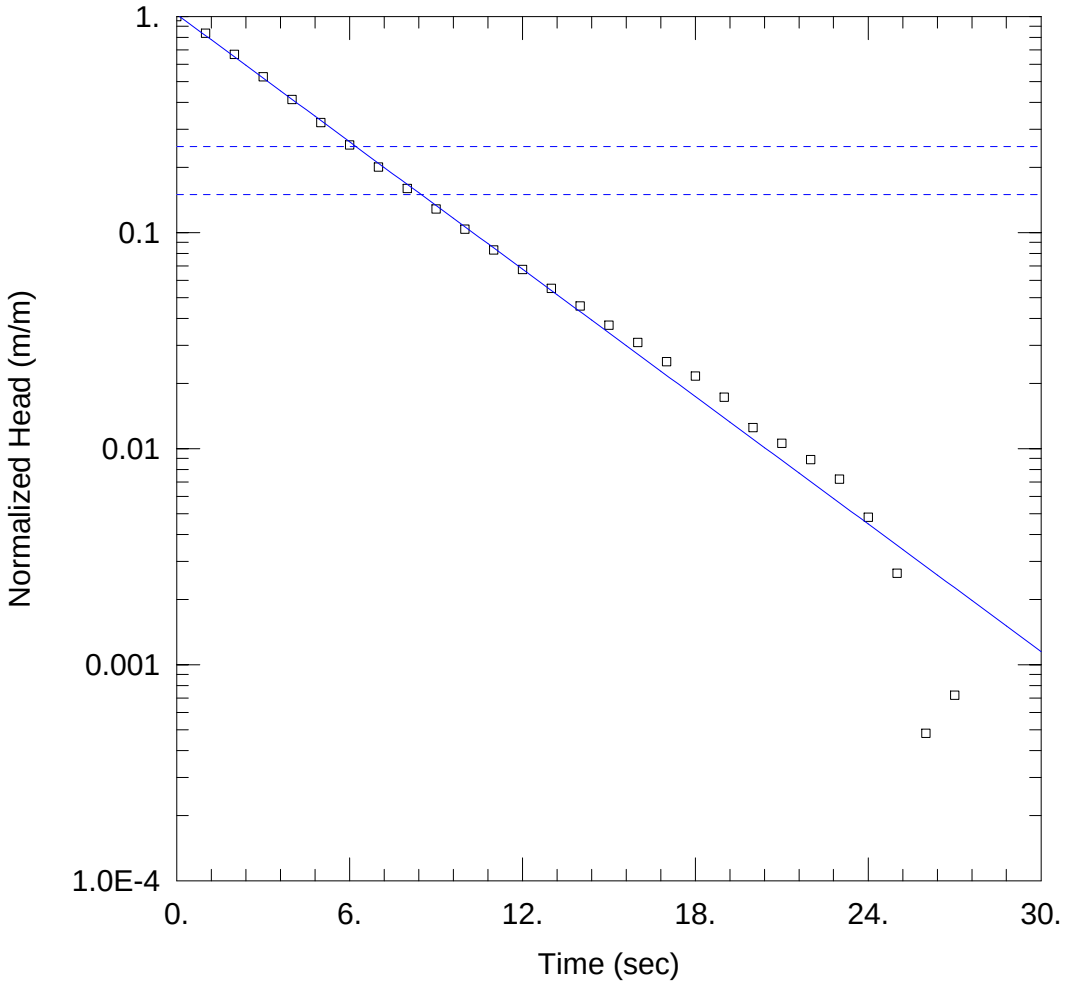
WELL DATA (ID18-GWBH04)

Initial Displacement: 0.416 m
Total Well Penetration Depth: 4.572 m
Casing Radius: 0.025 m
Static Water Column Height: 4.572 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 33.96 m/day y0 = 0.4255 m



RISING-HEAD 01

Data Set: \...\ID18-GWBH04_RH01_Hv.aqt
Date: 05/22/17 Time: 17:37:39

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH04
Test Date: 07.03.2017

AQUIFER DATA

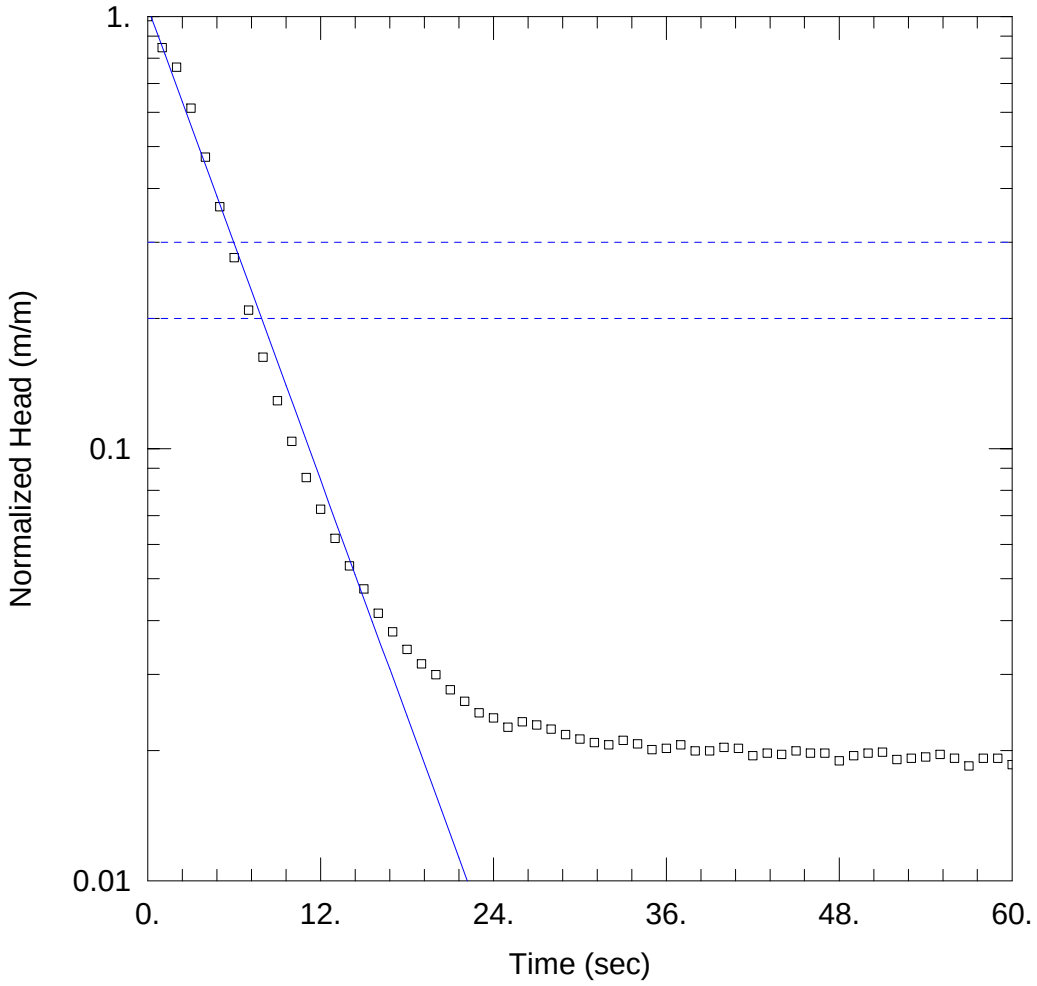
Saturated Thickness: 9.572 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID18-GWBH04)

Initial Displacement: 0.416 m
Total Well Penetration Depth: 4.572 m
Casing Radius: 0.025 m
Static Water Column Height: 4.572 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 47.13 m/day
y0 = 0.4255 m



RISING-HEAD 02

Data Set: \...\ID18-GWBH04_RH02_BR.aqt
Date: 05/22/17 Time: 17:37:26

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH04
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 9.572 m Anisotropy Ratio (Kz/Kr): 0.2

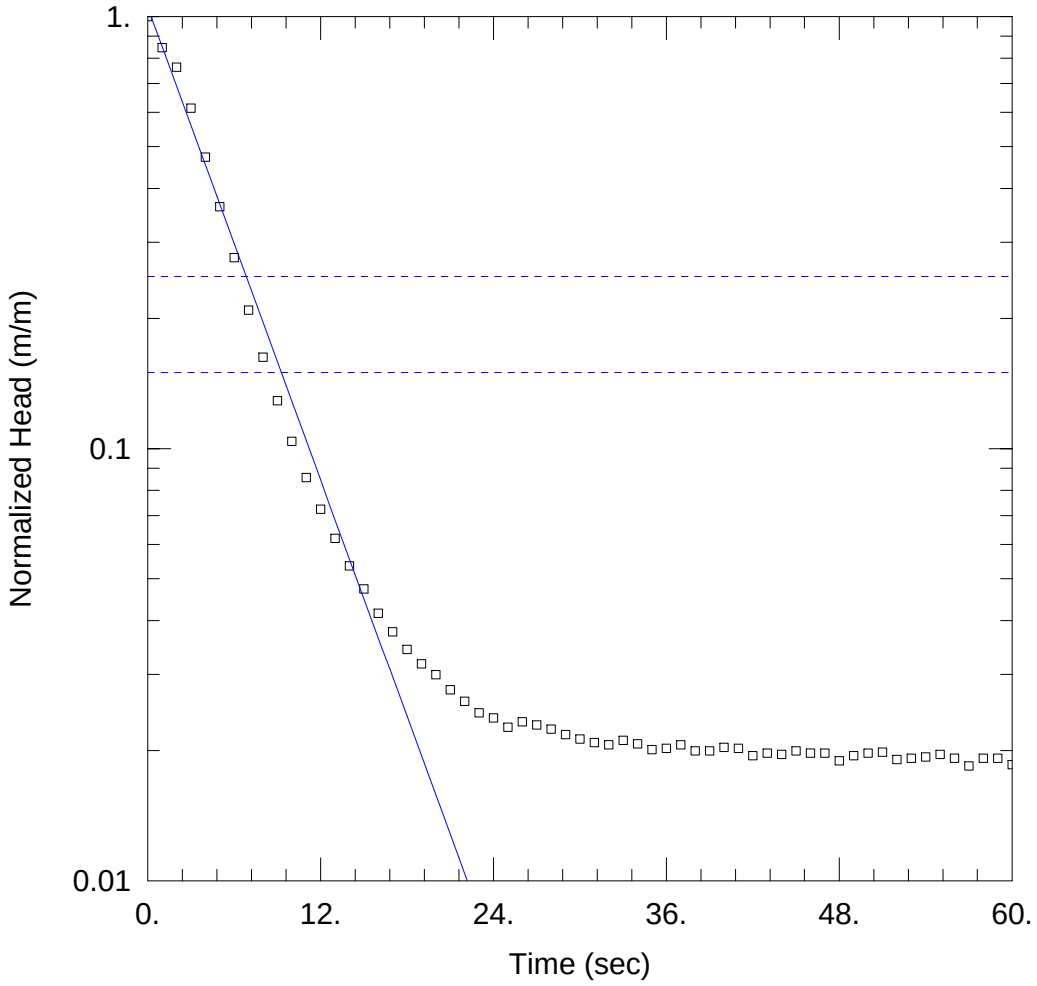
WELL DATA (ID18-GWBH04)

Initial Displacement: 0.781 m
Total Well Penetration Depth: 4.572 m
Casing Radius: 0.025 m
Static Water Column Height: 4.572 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 31.35 m/day y0 = 0.8203 m



RISING-HEAD 02

Data Set: \...\ID18-GWBH04_RH02_Hv.aqt
Date: 05/22/17 Time: 17:37:21

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID18-GWBH04
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 9.572 m Anisotropy Ratio (Kz/Kr): 0.2

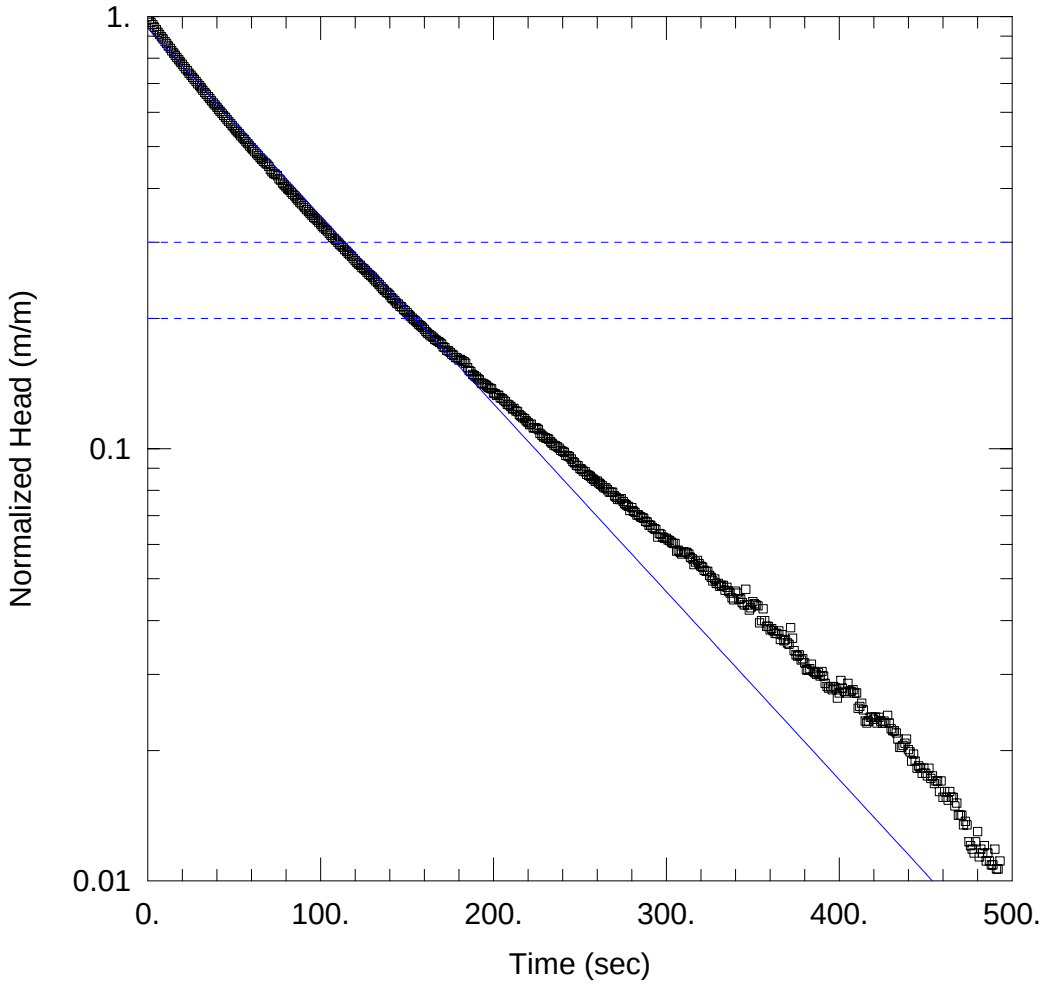
WELL DATA (ID18-GWBH04)

Initial Displacement: 0.781 m
Total Well Penetration Depth: 4.572 m
Casing Radius: 0.025 m
Static Water Column Height: 4.572 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 43.69 m/day y0 = 0.8203 m



FALLING-HEAD 01

Data Set: \...\ID18-GWBH05_FH01_BR.aqt
Date: 05/22/17 Time: 17:45:04

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID-GWBH05
Test Date: 07/03/2017

AQUIFER DATA

Saturated Thickness: 17.91 m Anisotropy Ratio (Kz/Kr): 0.2

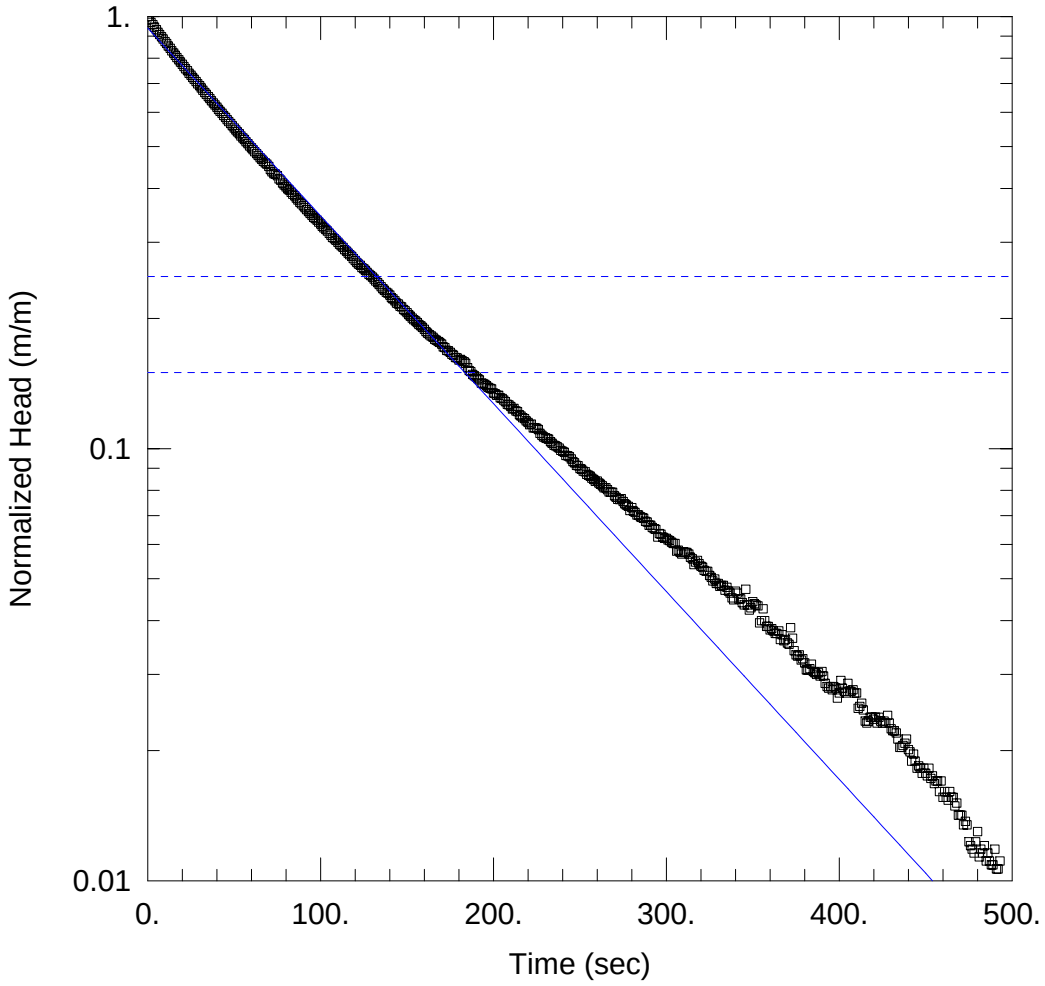
WELL DATA (ID18-GWBH05)

Initial Displacement: 0.423 m
Total Well Penetration Depth: 12.91 m
Casing Radius: 0.025 m
Static Water Column Height: 12.91 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.722 m/day y0 = 0.3975 m



FALLING-HEAD 01

Data Set: \...\ID18-GWBH05_FH01_Hv.aqt
Date: 05/22/17 Time: 17:44:56

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID-GWBH05
Test Date: 07/03/2017

AQUIFER DATA

Saturated Thickness: 17.91 m Anisotropy Ratio (Kz/Kr): 0.2

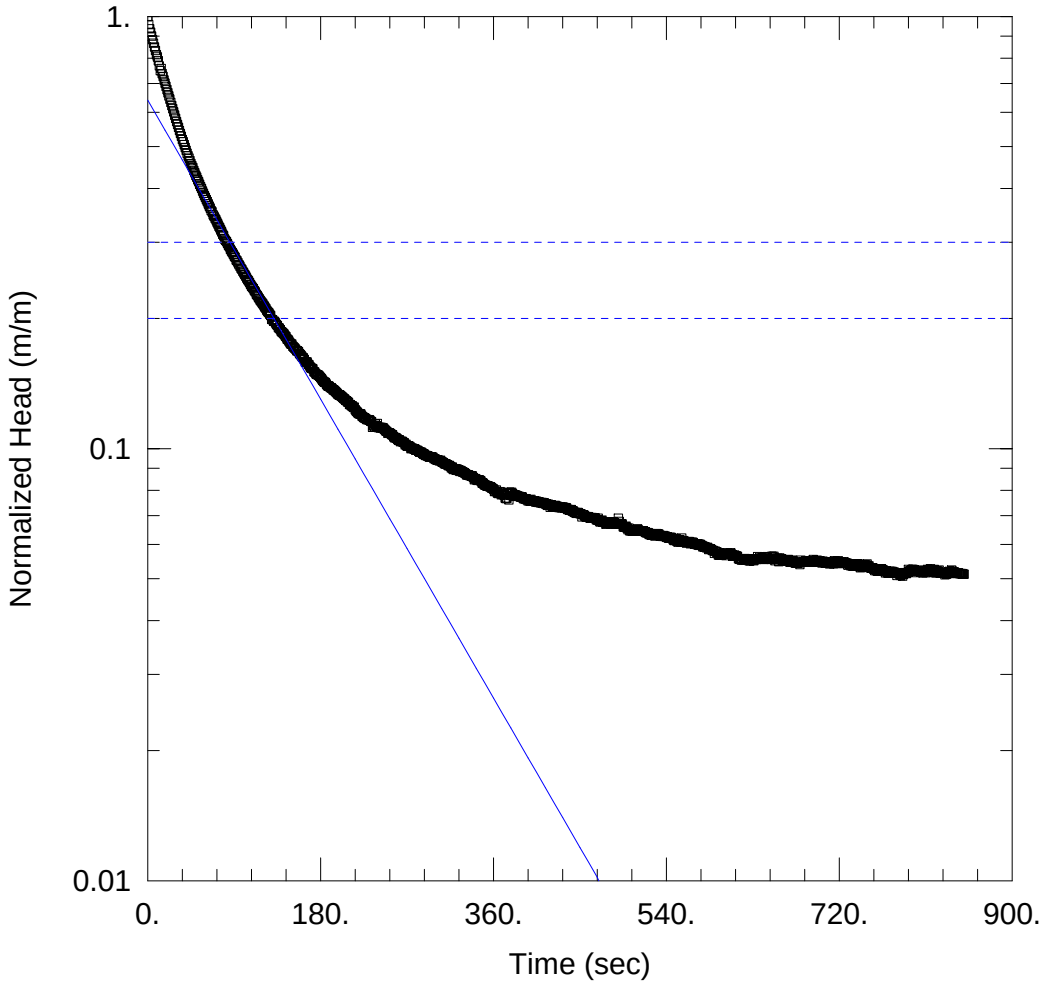
WELL DATA (ID18-GWBH05)

Initial Displacement: 0.423 m
Total Well Penetration Depth: 12.91 m
Casing Radius: 0.025 m
Static Water Column Height: 12.91 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 2.083 m/day y0 = 0.3974 m



FALLING-HEAD 02

Data Set: \...\ID18-GWBH05_FH02_BR.aqt
Date: 05/22/17 Time: 17:44:50

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID-GWBH05
Test Date: 07/03/2017

AQUIFER DATA

Saturated Thickness: 19.91 m Anisotropy Ratio (Kz/Kr): 0.2

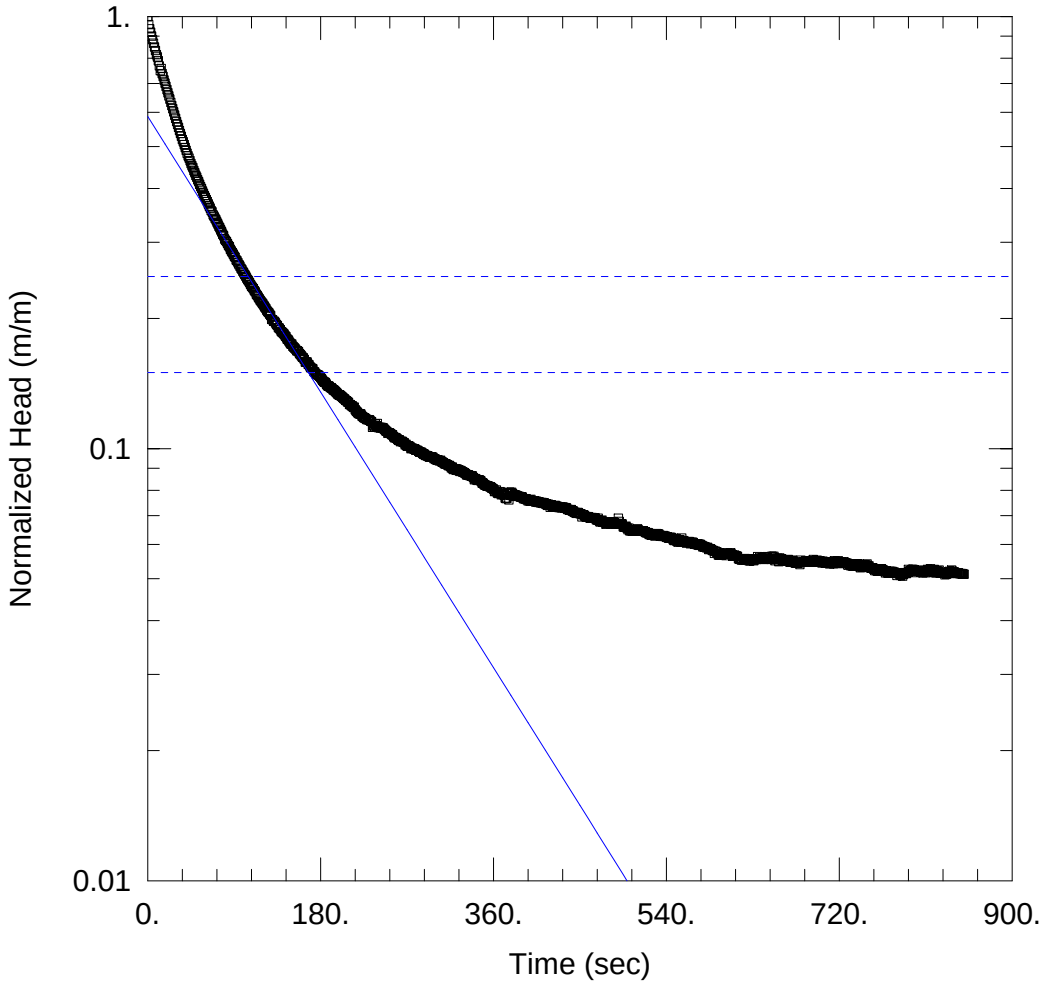
WELL DATA (ID18-GWBH05)

Initial Displacement: 0.596 m
Total Well Penetration Depth: 12.91 m
Casing Radius: 0.025 m
Static Water Column Height: 12.91 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.507 m/day y0 = 0.3813 m



FALLING-HEAD 02

Data Set: \...\ID18-GWBH05_FH02_Hv.aqt
Date: 05/22/17 Time: 17:44:44

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID-GWBH05
Test Date: 07/03/2017

AQUIFER DATA

Saturated Thickness: 19.91 m Anisotropy Ratio (Kz/Kr): 0.2

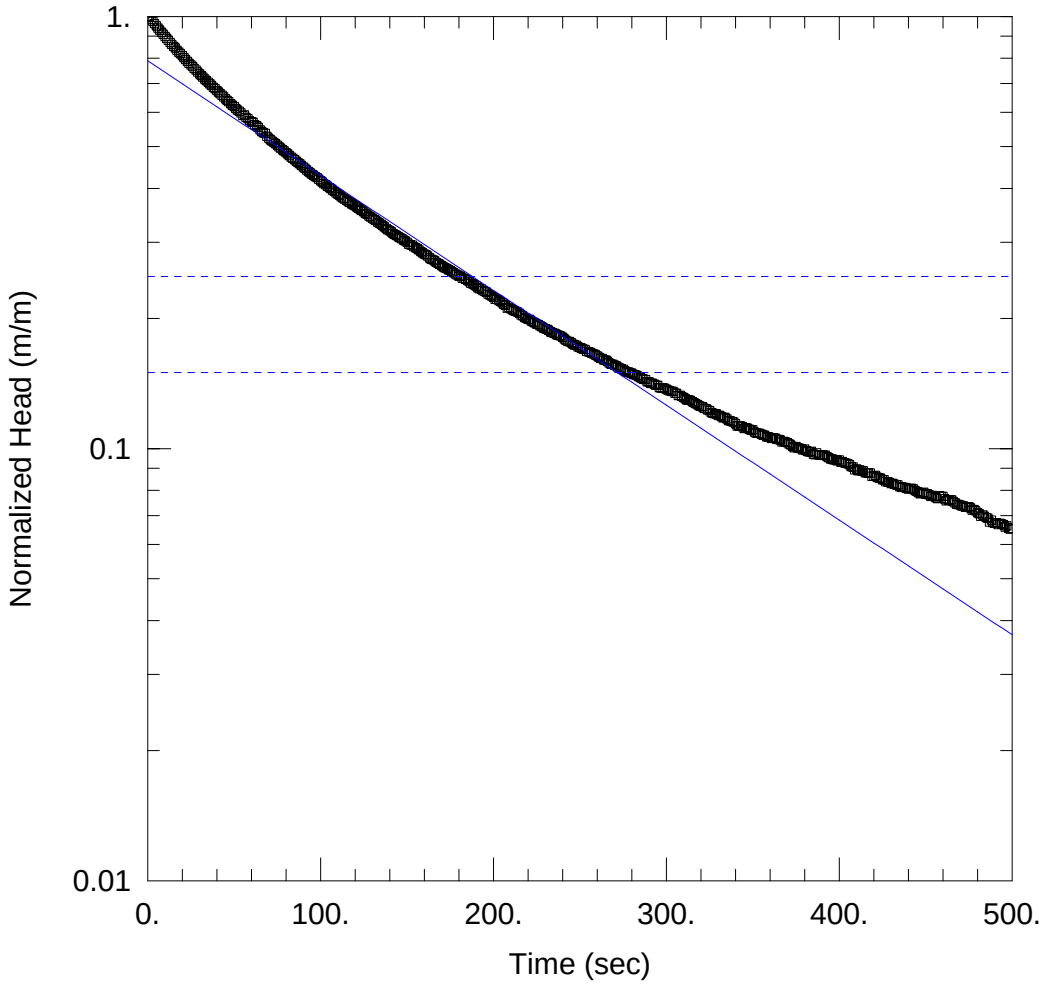
WELL DATA (ID18-GWBH05)

Initial Displacement: 0.596 m
Total Well Penetration Depth: 12.91 m
Casing Radius: 0.025 m
Static Water Column Height: 12.91 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 1.699 m/day y0 = 0.3498 m



RISING-HEAD 01

Data Set: \...\ID18-GWBH05_RH01_BR.aqt
Date: 05/22/17 Time: 17:44:39

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID-GWBH05
Test Date: 07/03/2017

AQUIFER DATA

Saturated Thickness: 17.91 m Anisotropy Ratio (Kz/Kr): 0.2

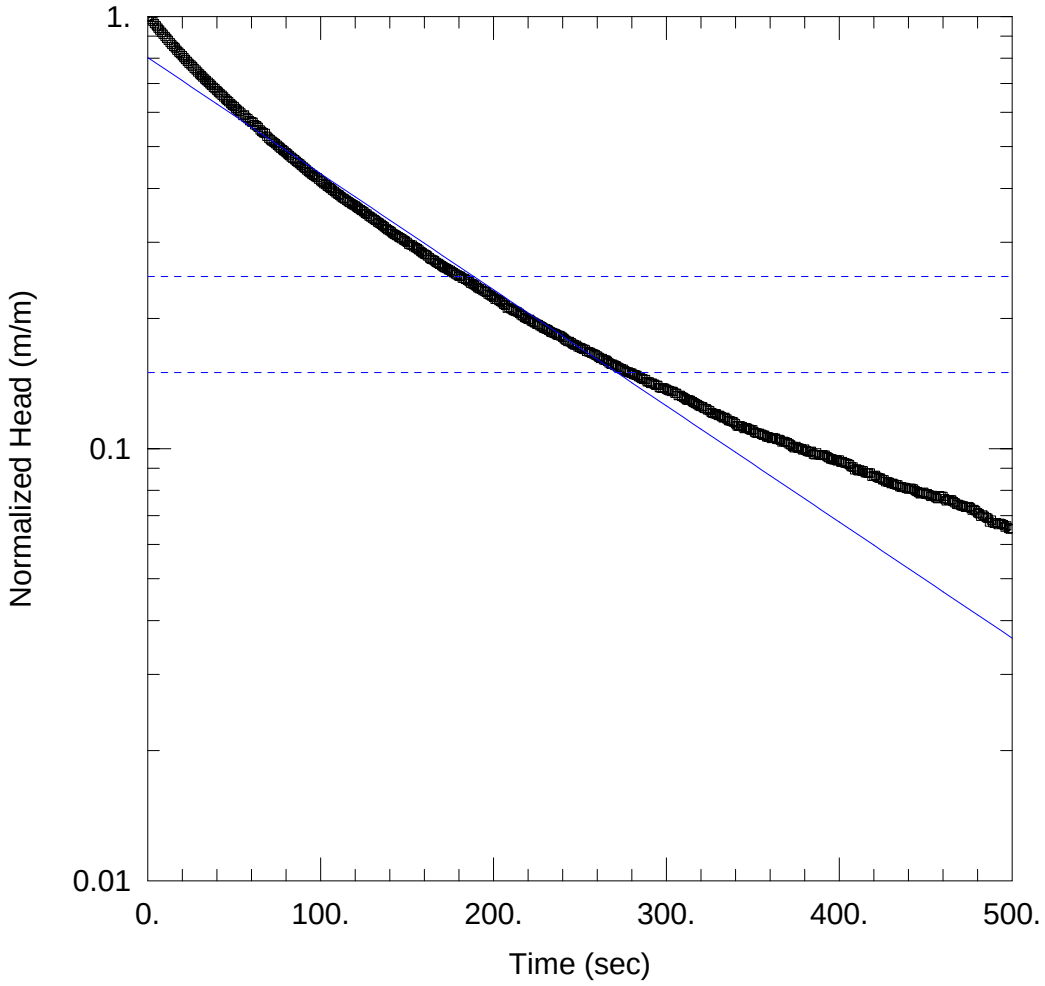
WELL DATA (ID18-GWBH05)

Initial Displacement: 0.439 m
Total Well Penetration Depth: 12.91 m
Casing Radius: 0.025 m
Static Water Column Height: 12.91 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 1.274 m/day y0 = 0.3465 m



RISING-HEAD 01

Data Set: \...\ID18-GWBH05_RH01_Hv.aqt
Date: 05/22/17 Time: 17:44:33

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID-GWBH05
Test Date: 07/03/2017

AQUIFER DATA

Saturated Thickness: 17.91 m Anisotropy Ratio (Kz/Kr): 0.2

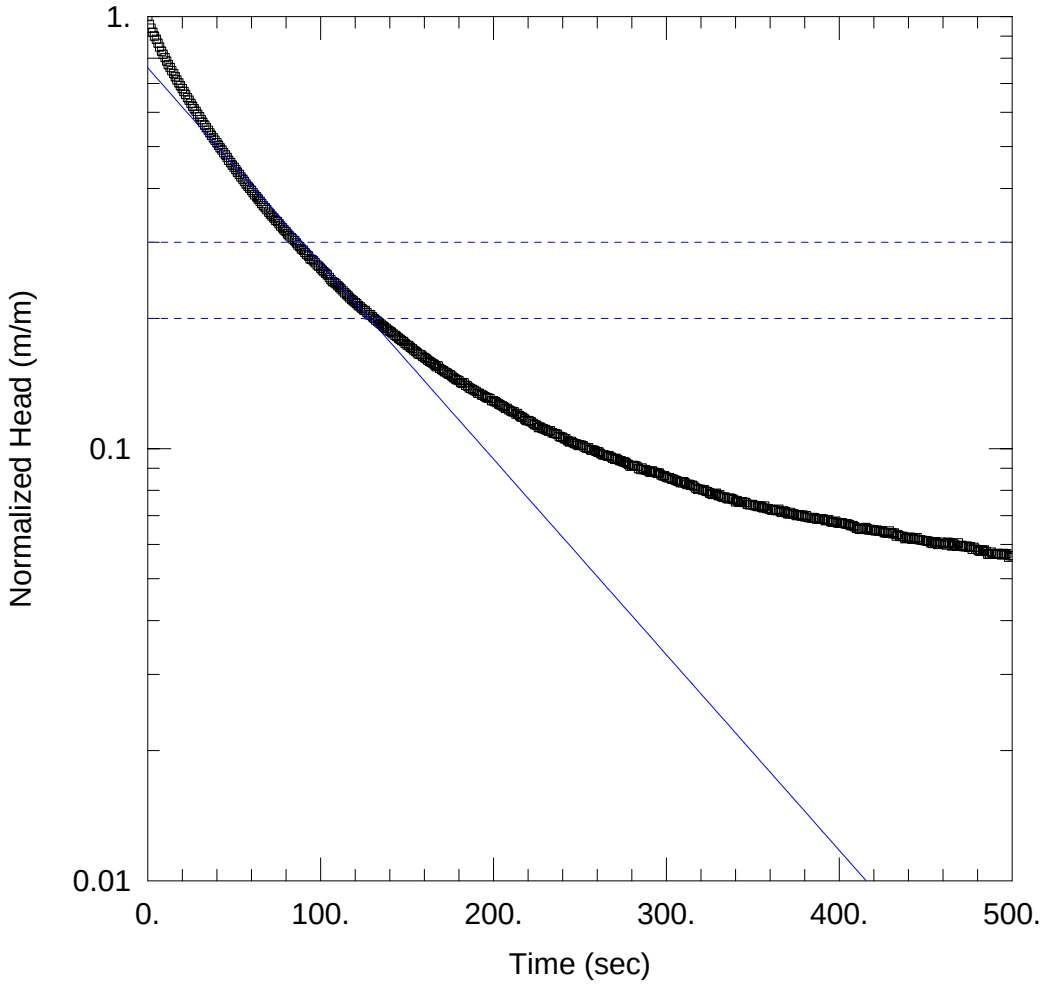
WELL DATA (ID18-GWBH05)

Initial Displacement: 0.439 m
Total Well Penetration Depth: 12.91 m
Casing Radius: 0.025 m
Static Water Column Height: 12.91 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 1.288 m/day y0 = 0.3527 m



RISING-HEAD 02

Data Set: \...\ID18-GWBH05_RH02_BR.aqt
Date: 05/22/17 Time: 17:44:25

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID-GWBH05
Test Date: 07/03/2017

AQUIFER DATA

Saturated Thickness: 17.91 m Anisotropy Ratio (Kz/Kr): 0.2

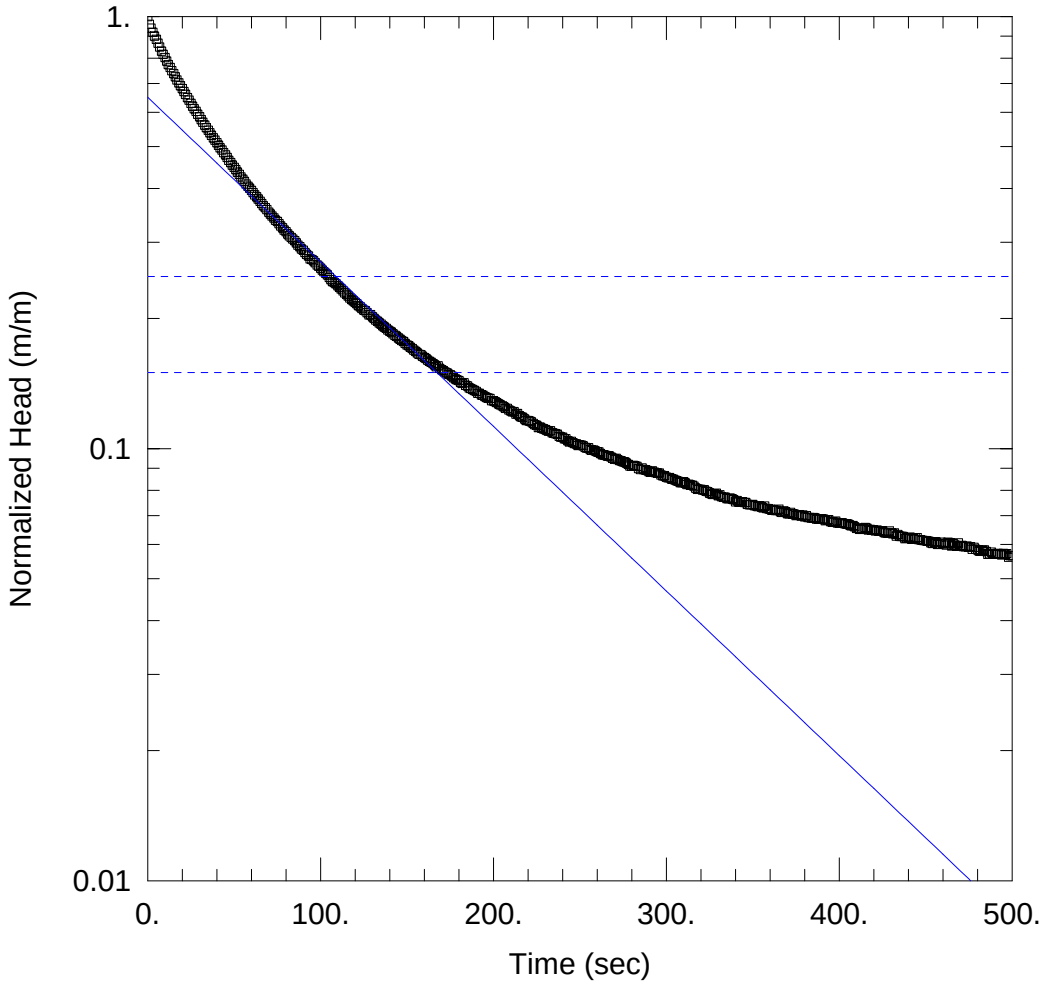
WELL DATA (ID18-GWBH05)

Initial Displacement: 0.5801 m
Total Well Penetration Depth: 12.91 m
Casing Radius: 0.025 m
Static Water Column Height: 12.91 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 1.793 m/day
y0 = 0.441 m



RISING-HEAD 02

Data Set: \...\ID18-GWBH05_RH02_Hv.aqt
Date: 05/22/17 Time: 17:44:19

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID-GWBH05
Test Date: 07/03/2017

AQUIFER DATA

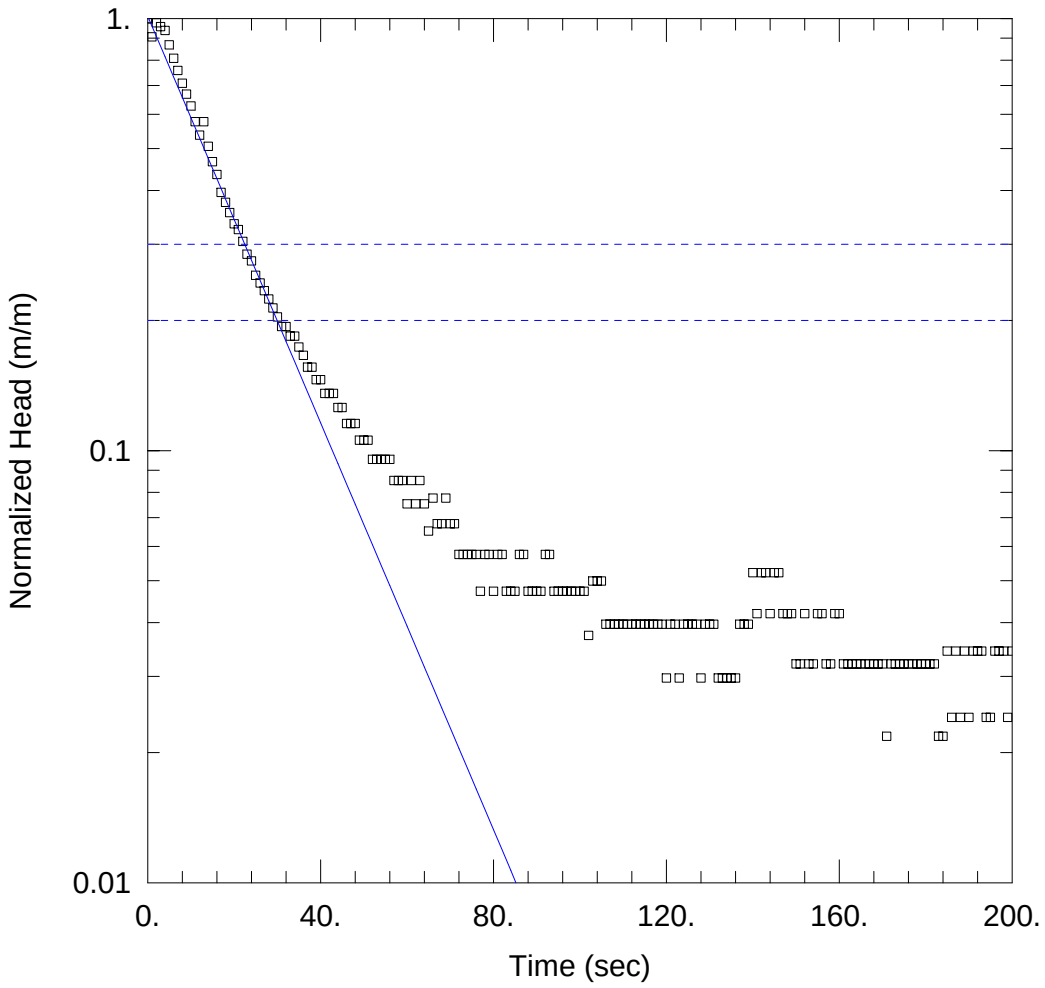
Saturated Thickness: 17.91 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID18-GWBH05)

Initial Displacement: 0.5801 m
Total Well Penetration Depth: 12.91 m
Casing Radius: 0.025 m
Static Water Column Height: 12.91 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 1.826 m/day
y0 = 0.377 m



FALLING HEAD 01

Data Set: \...\ID43-GWBH03_FH01_BR.aqt
Date: 05/23/17 Time: 10:29:08

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID43-GWBH03
Test Date: 13/04/2017

AQUIFER DATA

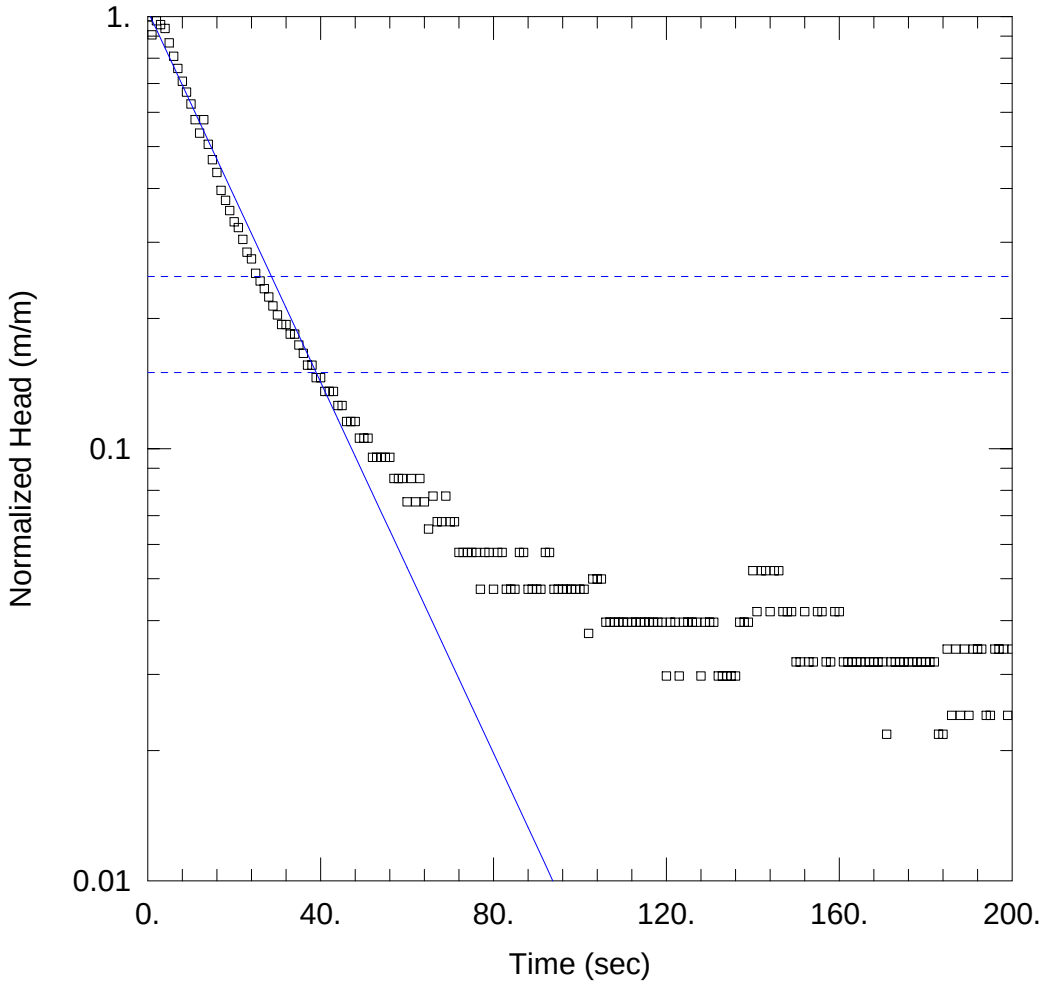
Saturated Thickness: 17.41 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID43-GWBH03)

Initial Displacement: 0.309 m
Total Well Penetration Depth: 12.41 m
Casing Radius: 0.025 m
Static Water Column Height: 12.41 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 9.28 m/day
y0 = 0.3129 m



FALLING HEAD 01

Data Set: \...\ID43-GWBH03_FH01_Hv.aqt
Date: 05/23/17 Time: 10:32:34

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID43-GWBH03
Test Date: 13/04/2017

AQUIFER DATA

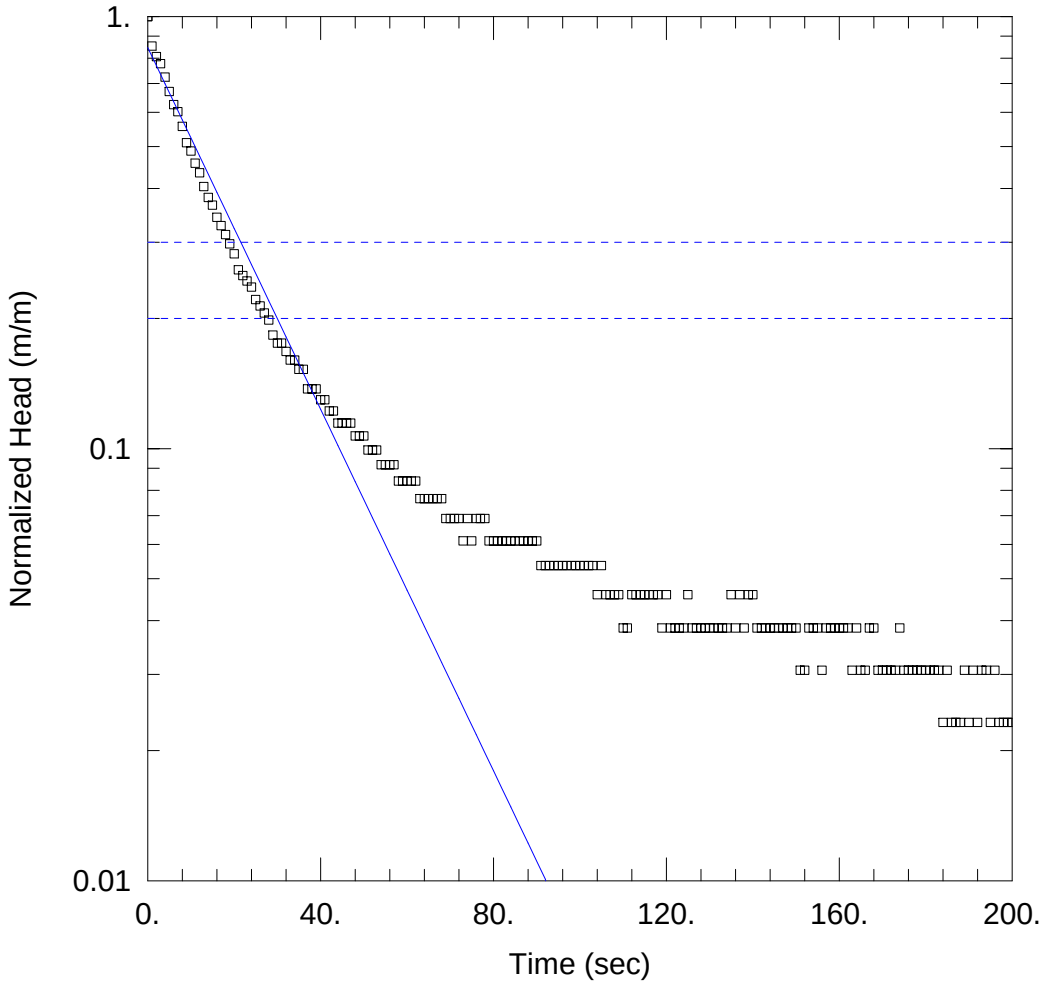
Saturated Thickness: 17.41 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID43-GWBH03)

Initial Displacement: 0.309 m
Total Well Penetration Depth: 12.41 m
Casing Radius: 0.025 m
Static Water Column Height: 12.41 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 10.3 m/day
y0 = 0.3184 m



FALLING HEAD 02

Data Set: \...\ID43-GWBH03_FH02_BR.aqt
Date: 05/23/17 Time: 10:32:50

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID43-GWBH03
Test Date: 13/04/2017

AQUIFER DATA

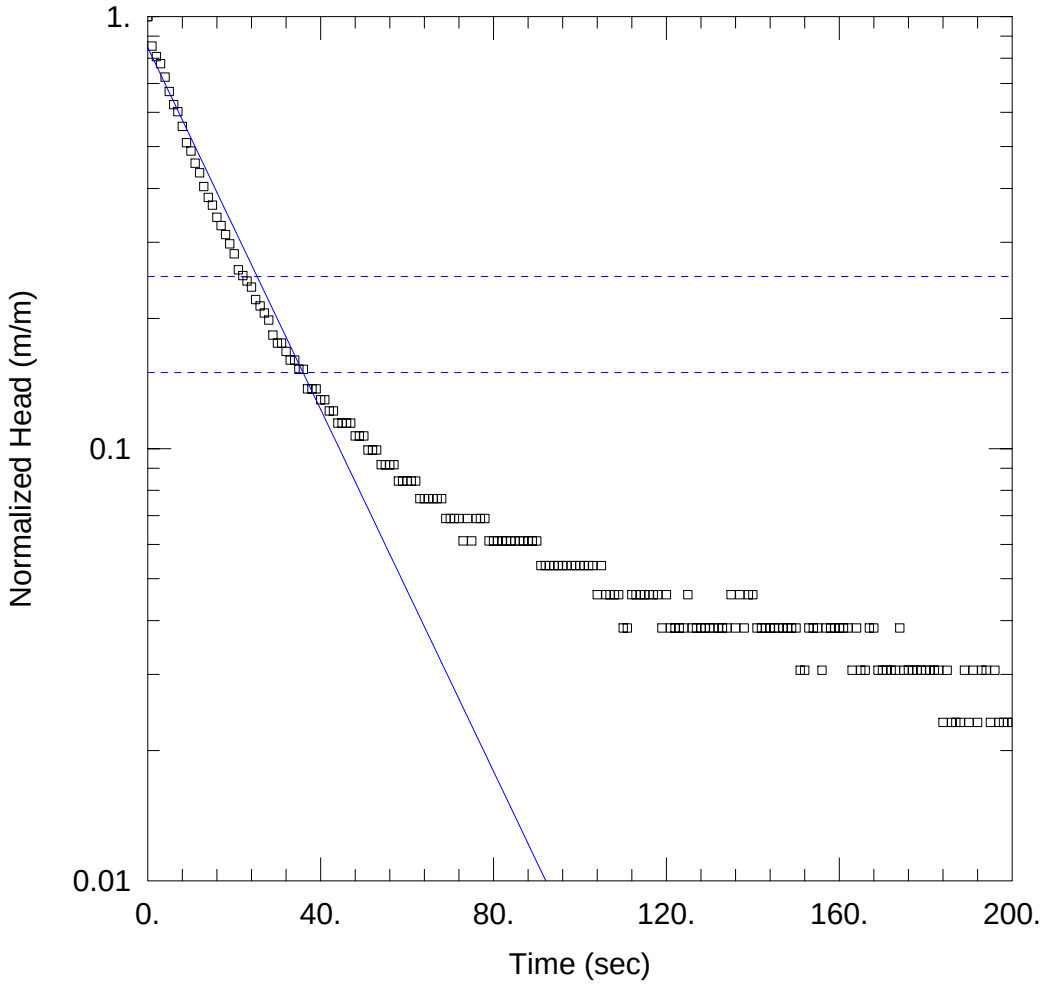
Saturated Thickness: 17.41 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID43-GWBH03)

Initial Displacement: 0.409 m
Total Well Penetration Depth: 12.41 m
Casing Radius: 0.025 m
Static Water Column Height: 12.41 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 8.249 m/day
y0 = 0.3464 m



FALLING HEAD 02

Data Set: \...\ID43-GWBH03_FH02_Hv.aqt
Date: 05/23/17 Time: 10:32:45

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID43-GWBH03
Test Date: 13/04/2017

AQUIFER DATA

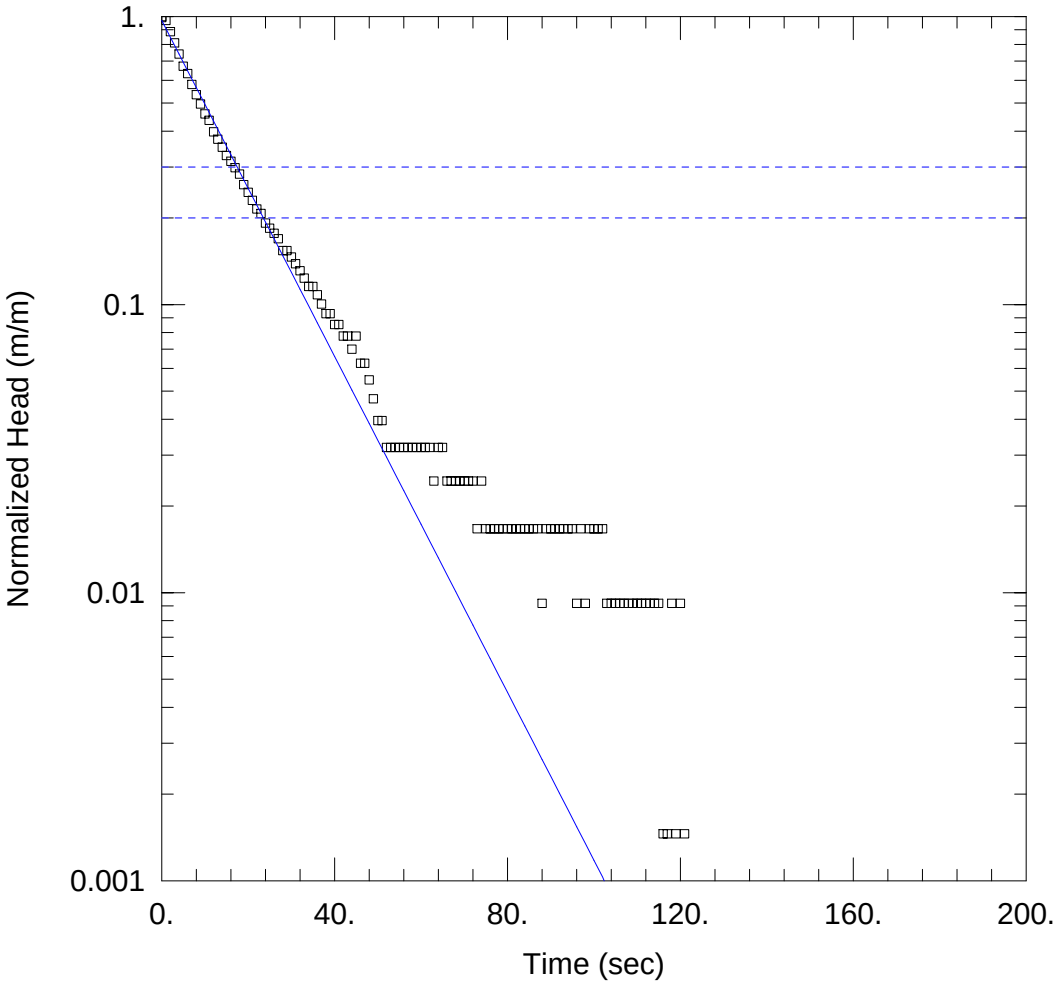
Saturated Thickness: 17.41 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID43-GWBH03)

Initial Displacement: 0.409 m
Total Well Penetration Depth: 12.41 m
Casing Radius: 0.025 m
Static Water Column Height: 12.41 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 10.04 m/day
y0 = 0.3465 m



RISING HEAD 01

Data Set: \...\ID43-GWBH03_RH01_BR.aqt
Date: 05/23/17 Time: 10:33:30

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID43-GWBH03
Test Date: 13/04/2017

AQUIFER DATA

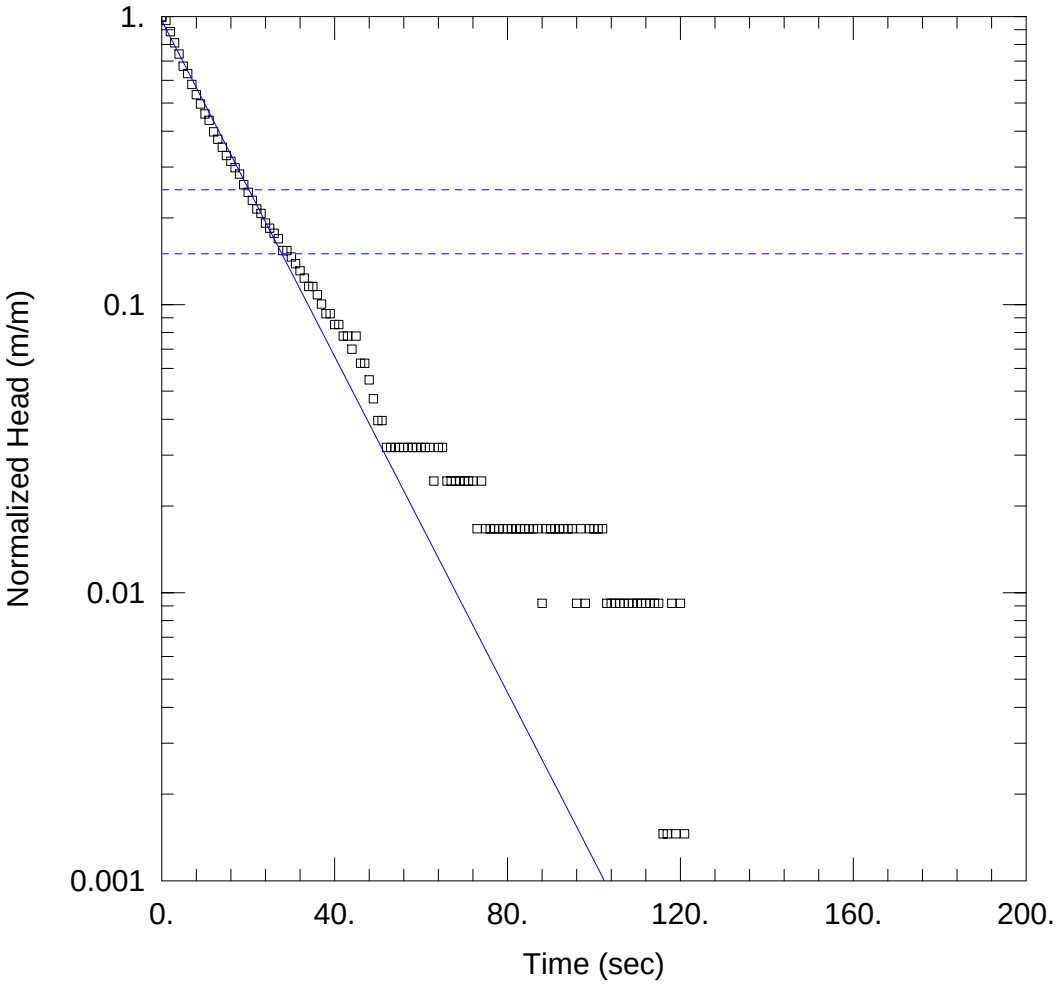
Saturated Thickness: 17.41 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID43-GWBH03)

Initial Displacement: 0.409 m
Total Well Penetration Depth: 12.41 m
Casing Radius: 0.025 m
Static Water Column Height: 12.41 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 11.49 m/day
y0 = 0.396 m



RISING HEAD 01

Data Set: \...\ID43-GWBH03_RH01_Hv.aqt
Date: 05/23/17 Time: 10:34:06

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID43-GWBH03
Test Date: 13/04/2017

AQUIFER DATA

Saturated Thickness: 17.41 m Anisotropy Ratio (Kz/Kr): 0.2

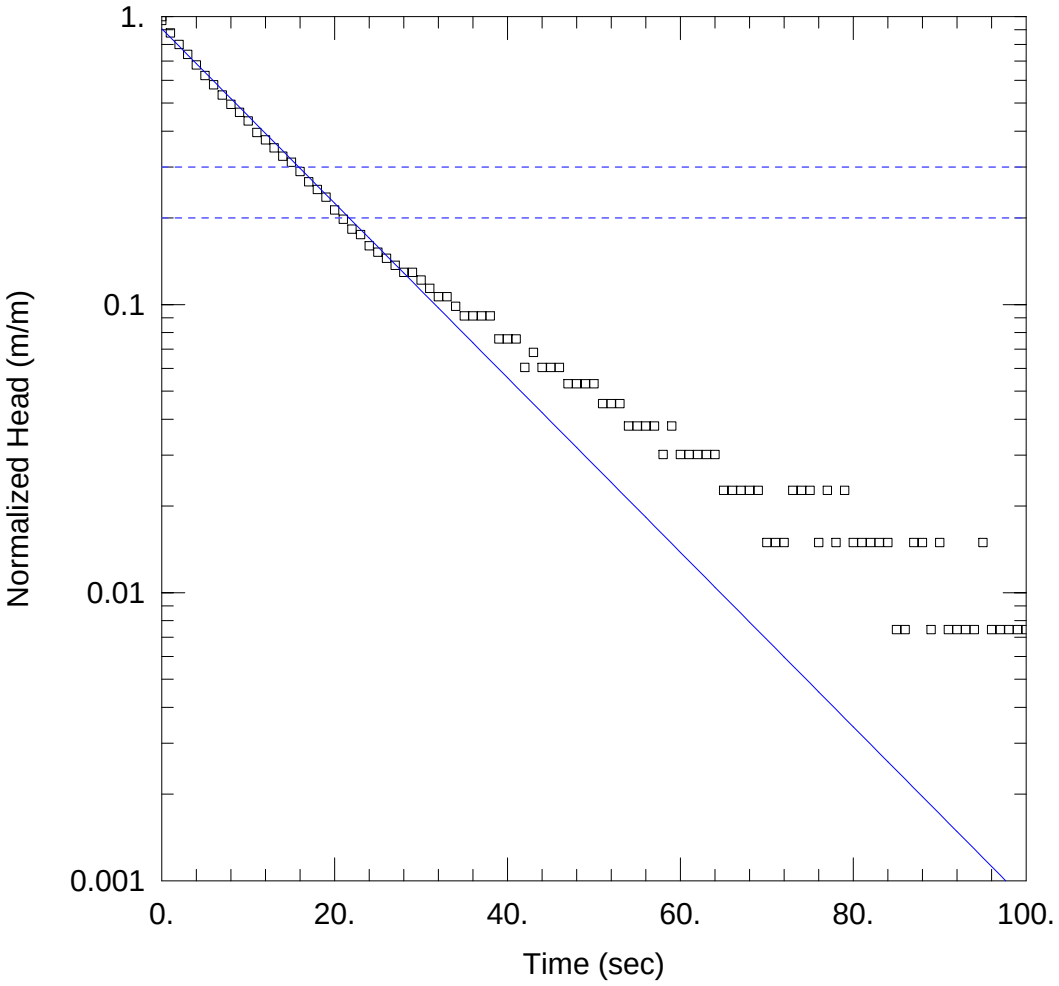
WELL DATA (ID43-GWBH03)

Initial Displacement: 0.409 m
Total Well Penetration Depth: 12.41 m
Casing Radius: 0.025 m
Static Water Column Height: 12.41 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 13.98 m/day y0 = 0.3961 m



RISING HEAD 02

Data Set: \...\ID43-GWBH03_RH02_BR.aqt
Date: 05/23/17 Time: 10:34:44

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID43-GWBH03
Test Date: 13/04/2017

AQUIFER DATA

Saturated Thickness: 17.41 m Anisotropy Ratio (Kz/Kr): 0.2

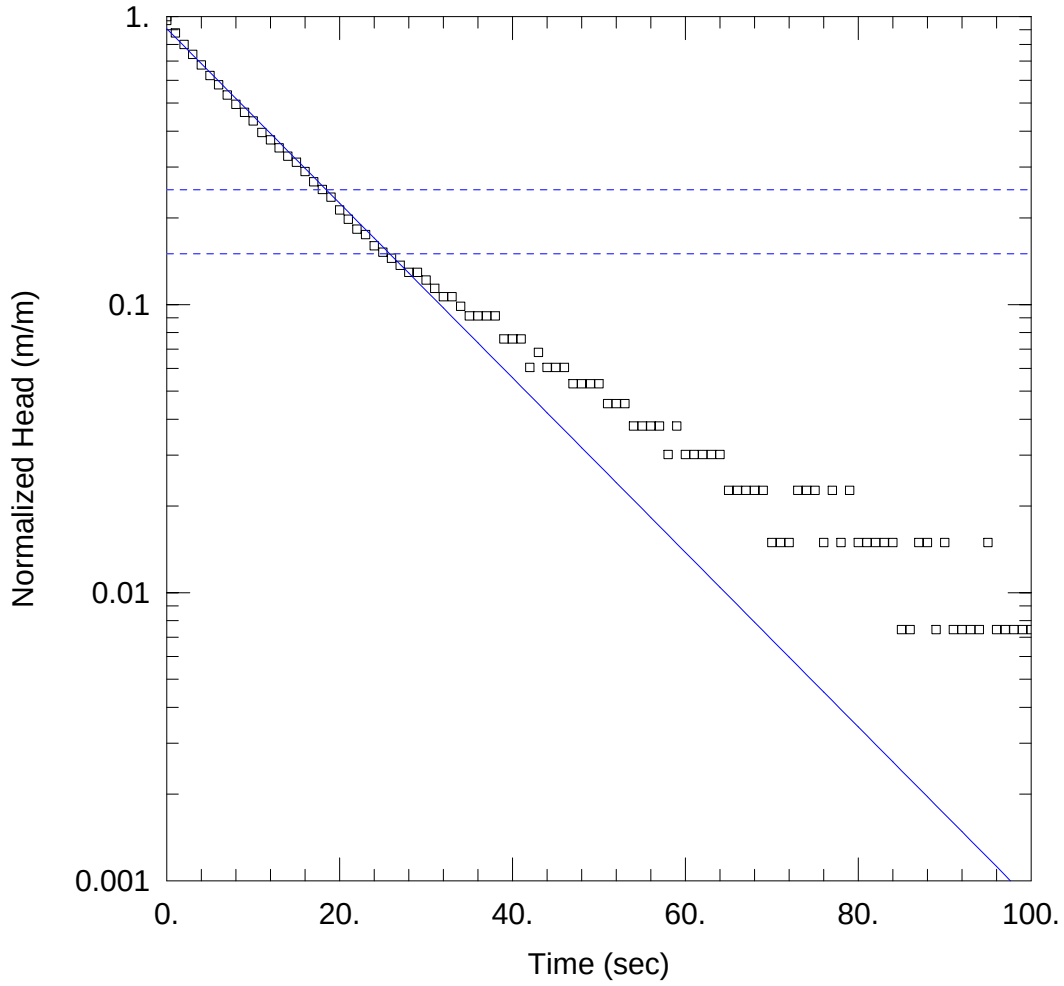
WELL DATA (ID43-GWBH03)

Initial Displacement: 0.409 m
Total Well Penetration Depth: 12.41 m
Casing Radius: 0.025 m
Static Water Column Height: 12.41 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 11.94 m/day
y0 = 0.3708 m



RISING HEAD 02

Data Set: \...\ID43-GWBH03_RH02_Hv.aqt
Date: 05/23/17 Time: 10:35:11

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID43-GWBH03
Test Date: 13/04/2017

AQUIFER DATA

Saturated Thickness: 17.41 m Anisotropy Ratio (Kz/Kr): 0.2

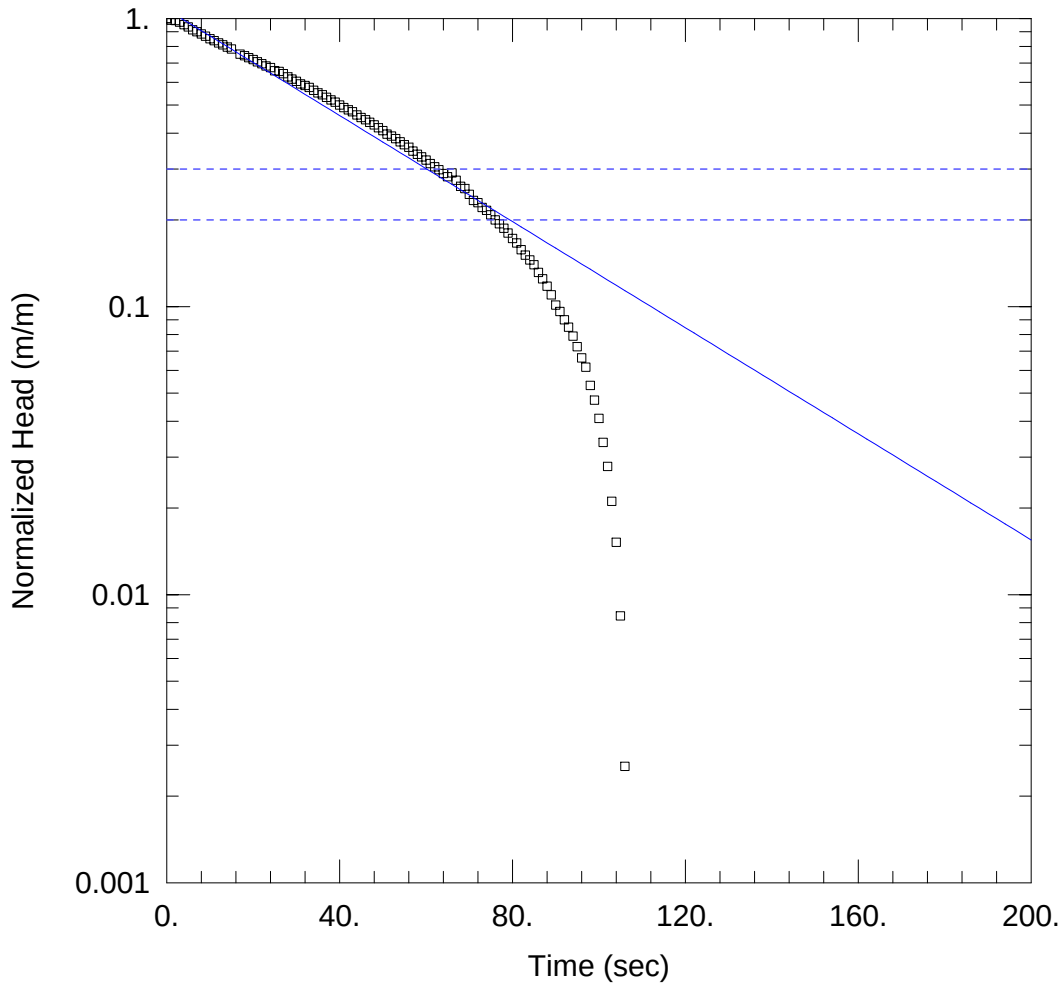
WELL DATA (ID43-GWBH03)

Initial Displacement: 0.409 m
Total Well Penetration Depth: 12.41 m
Casing Radius: 0.025 m
Static Water Column Height: 12.41 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 14.52 m/day y0 = 0.3709 m



FALLING-HEAD 01

Data Set: \...\ID43-GWBH04_FH01_BR.aqt
Date: 05/22/17 Time: 18:03:13

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID43-GWBH04
Test Date: 06.03.2017

AQUIFER DATA

Saturated Thickness: 9.518 m Anisotropy Ratio (Kz/Kr): 0.2

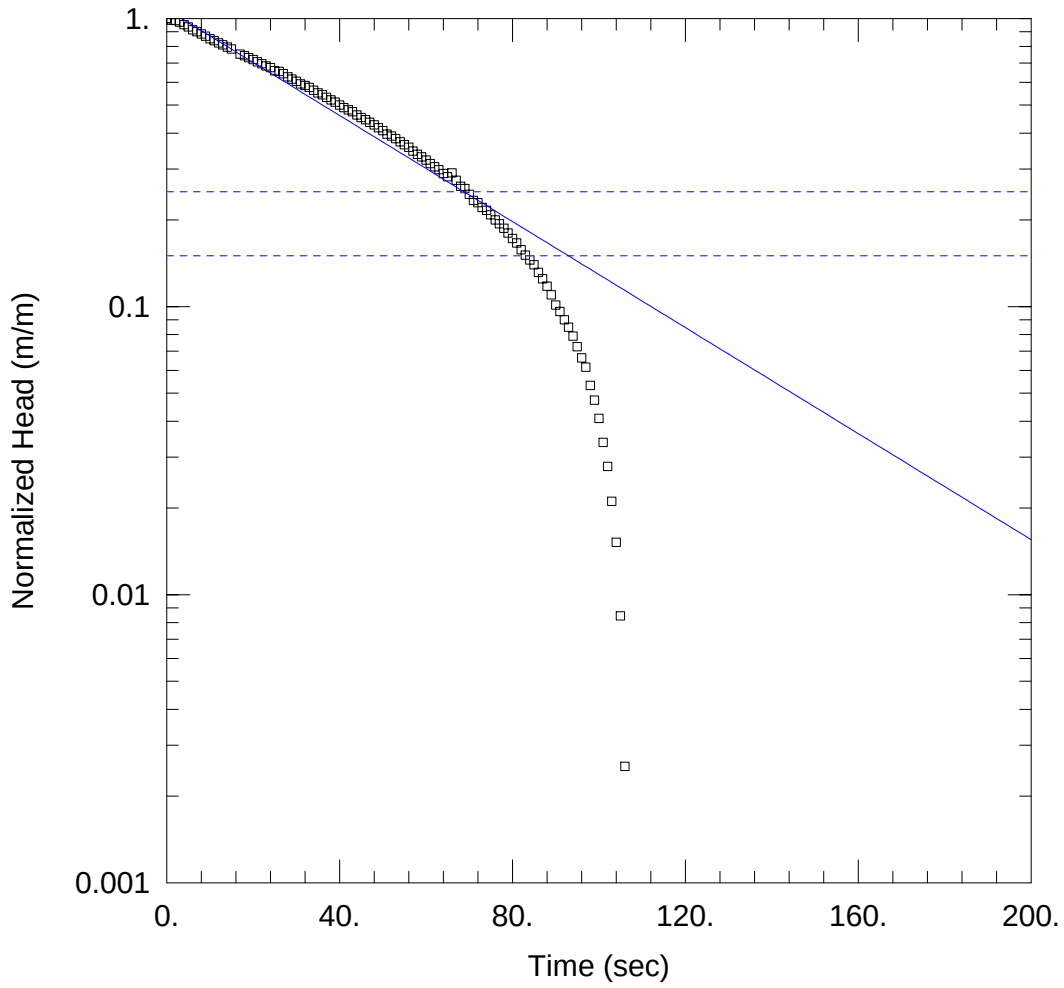
WELL DATA (ID43-GWBH04)

Initial Displacement: 0.237 m
Total Well Penetration Depth: 4.518 m
Casing Radius: 0.025 m
Static Water Column Height: 4.518 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 3.162 m/day y0 = 0.2546 m



FALLING-HEAD 01

Data Set: \...\ID43-GWBH04_FH01_Hv.aqt
Date: 05/22/17 Time: 18:02:40

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID43-GWBH04
Test Date: 06.03.2017

AQUIFER DATA

Saturated Thickness: 9.518 m Anisotropy Ratio (Kz/Kr): 0.2

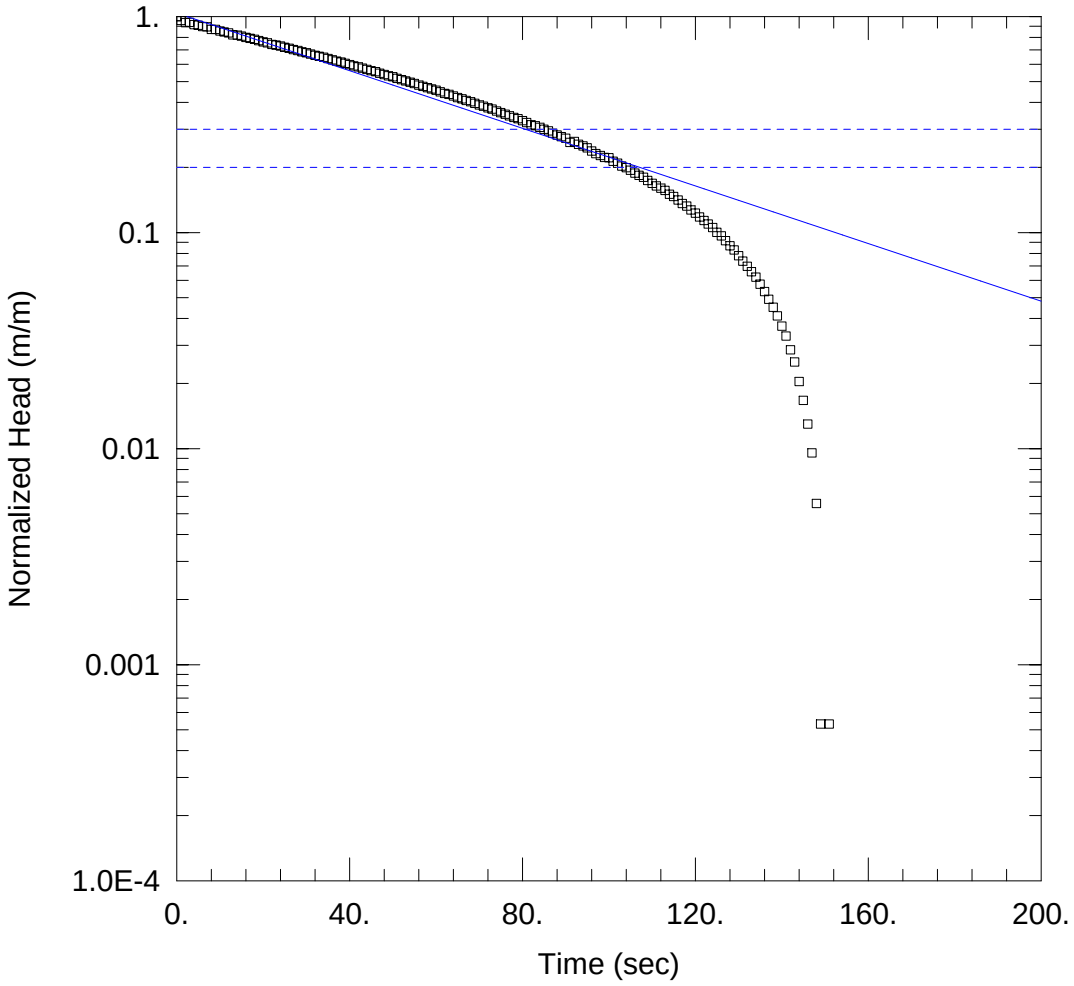
WELL DATA (ID43-GWBH04)

Initial Displacement: 0.237 m
Total Well Penetration Depth: 4.518 m
Casing Radius: 0.025 m
Static Water Column Height: 4.518 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 4.412 m/day y0 = 0.2546 m



RISING-HEAD 01

Data Set: \...\ID43-GWBH04_RH01_BR.aqt
Date: 05/22/17 Time: 18:02:35

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID43-GWBH04
Test Date: 06.03.2017

AQUIFER DATA

Saturated Thickness: 9.518 m Anisotropy Ratio (Kz/Kr): 0.2

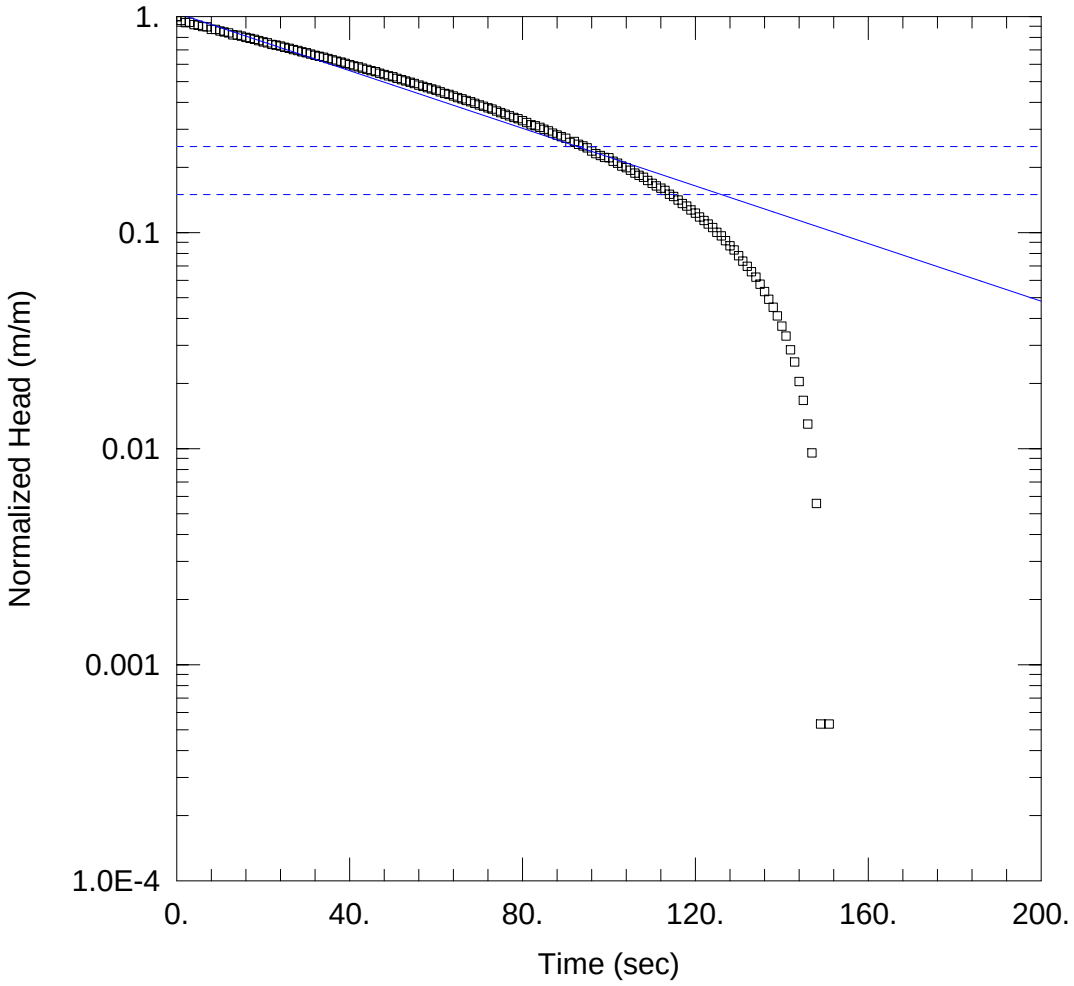
WELL DATA (ID43-GWBH04)

Initial Displacement: 0.377 m
Total Well Penetration Depth: 4.518 m
Casing Radius: 0.025 m
Static Water Column Height: 4.518 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 2.29 m/day y0 = 0.391 m



RISING-HEAD 01

Data Set: \...\ID43-GWBH04_RH01_Hv.aqt
Date: 05/22/17 Time: 18:02:31

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID43-GWBH04
Test Date: 06.03.2017

AQUIFER DATA

Saturated Thickness: 9.518 m Anisotropy Ratio (Kz/Kr): 0.2

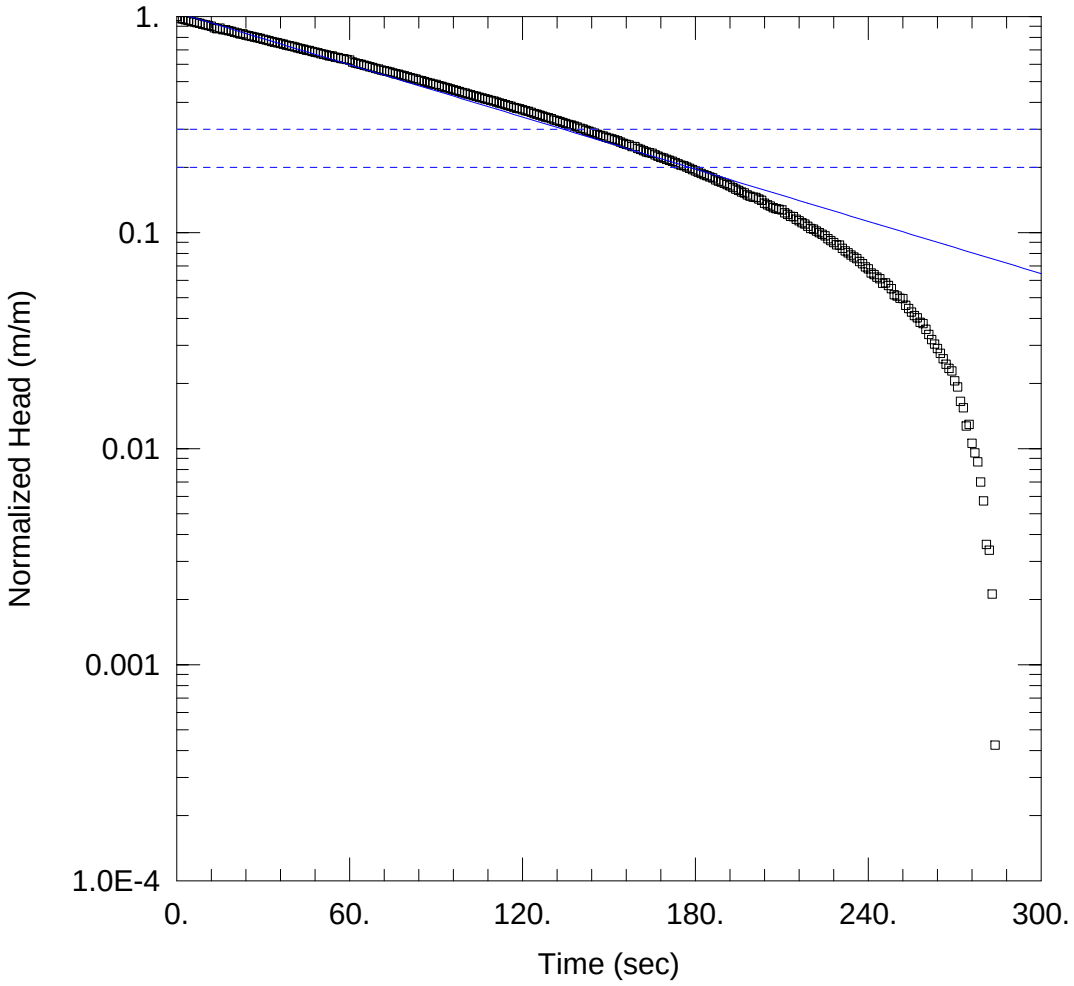
WELL DATA (ID43-GWBH04)

Initial Displacement: 0.377 m
Total Well Penetration Depth: 4.518 m
Casing Radius: 0.025 m
Static Water Column Height: 4.518 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 3.196 m/day y0 = 0.391 m



RISING-HEAD 02

Data Set: \...\ID43-GWBH04_RH02_BR.aqt
Date: 05/22/17 Time: 21:11:09

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID43-GWBH04
Test Date: 06.03.2017

AQUIFER DATA

Saturated Thickness: 9.518 m Anisotropy Ratio (Kz/Kr): 0.2

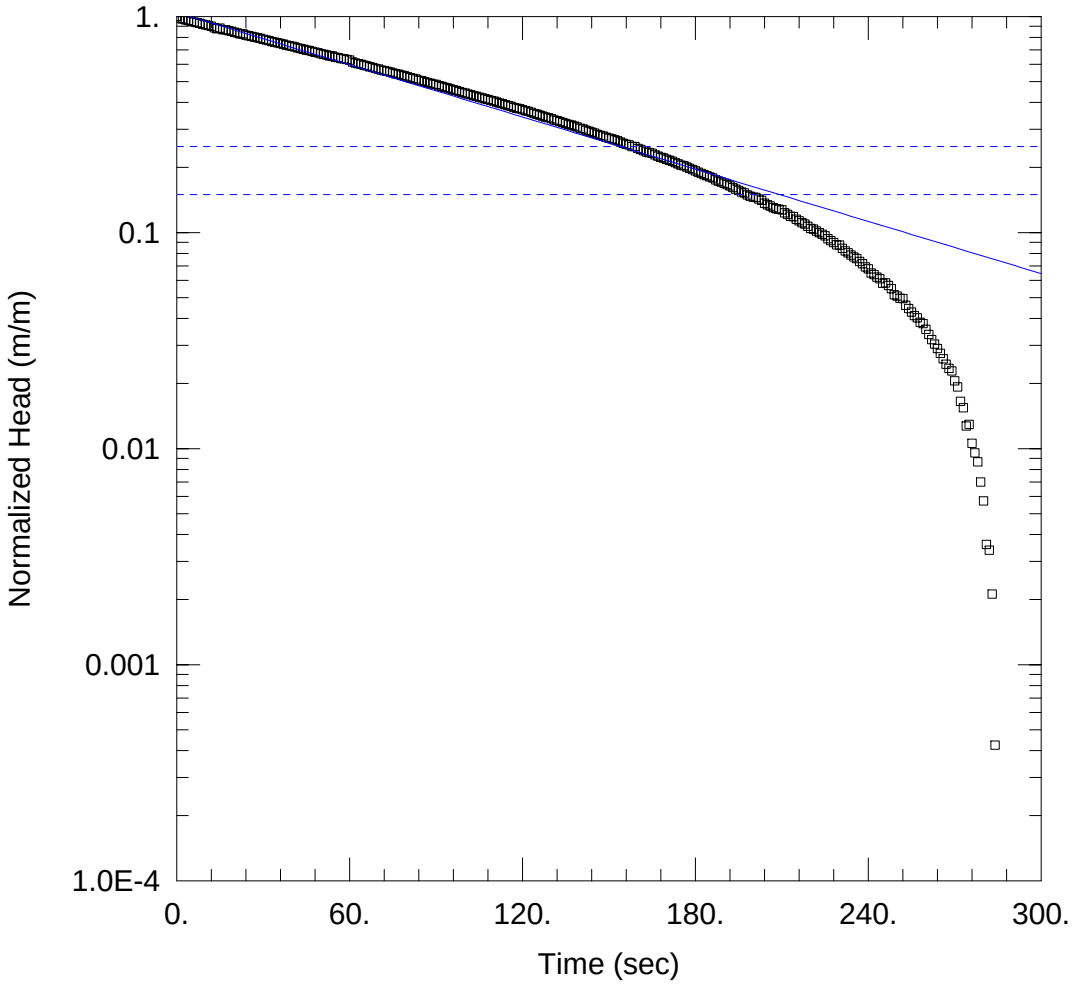
WELL DATA (ID43-GWBH04)

Initial Displacement: 0.472 m
Total Well Penetration Depth: 4.518 m
Casing Radius: 0.025 m
Static Water Column Height: 4.518 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 1.383 m/day
y0 = 0.4916 m



RISING-HEAD 02

Data Set: \...\ID43-GWBH04_RH02_Hv.aqt
Date: 05/22/17 Time: 18:02:22

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID43-GWBH04
Test Date: 06.03.2017

AQUIFER DATA

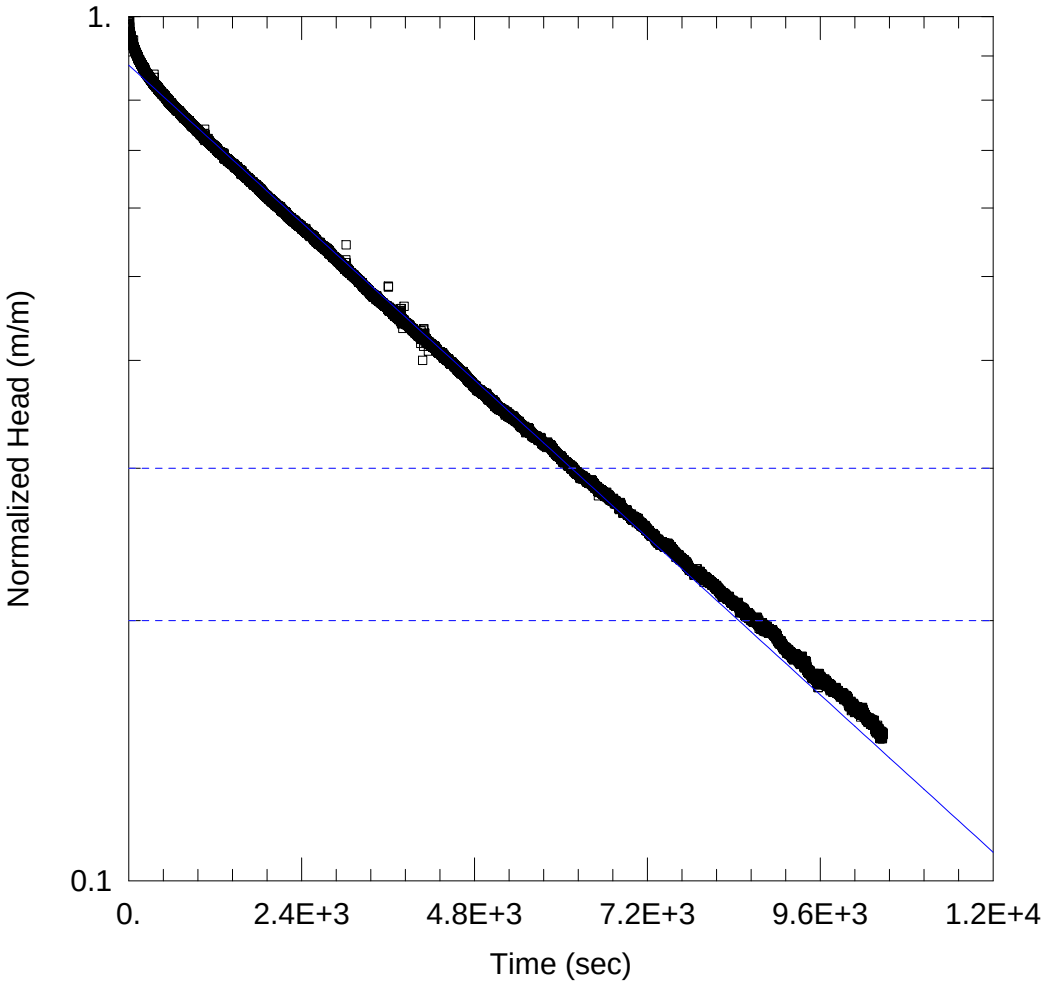
Saturated Thickness: 9.588 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID43-GWBH04)

Initial Displacement: 0.472 m
Total Well Penetration Depth: 4.518 m
Casing Radius: 0.025 m
Static Water Column Height: 4.588 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 1.93 m/day
y0 = 0.4916 m



FALLING-HEAD 01

Data Set: \...\ID43-GWBH05_FH01_BR.aqt
Date: 05/23/17 Time: 10:42:15

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID43-GWBH05
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 22.23 m Anisotropy Ratio (Kz/Kr): 0.2

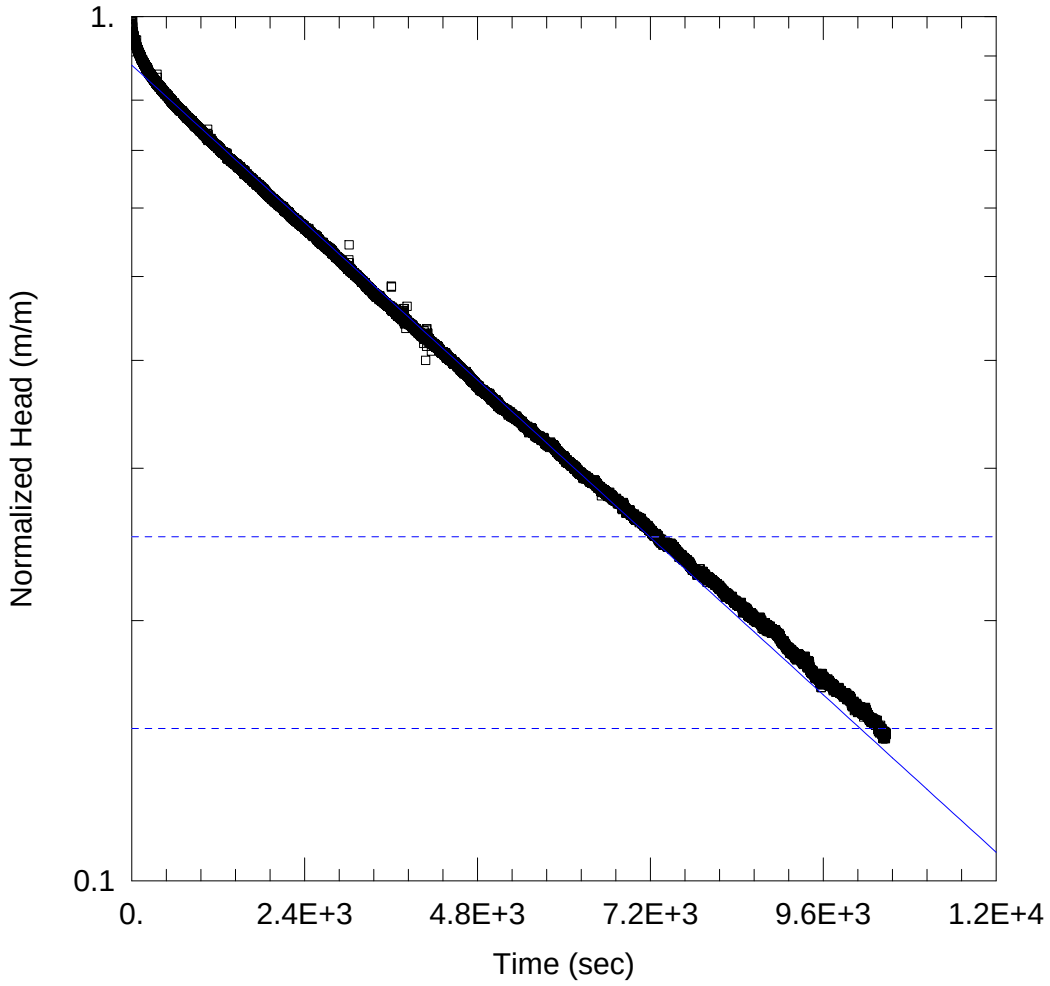
WELL DATA (ID43-GWBH05)

Initial Displacement: 0.4317 m
Total Well Penetration Depth: 17.23 m
Casing Radius: 0.025 m
Static Water Column Height: 17.23 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.03108 m/day y0 = 0.3792 m



FALLING-HEAD 01

Data Set: \...\ID43-GWBH05_FH01_Hv.aqt
Date: 05/23/17 Time: 10:43:12

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID43-GWBH05
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 22.23 m Anisotropy Ratio (Kz/Kr): 0.2

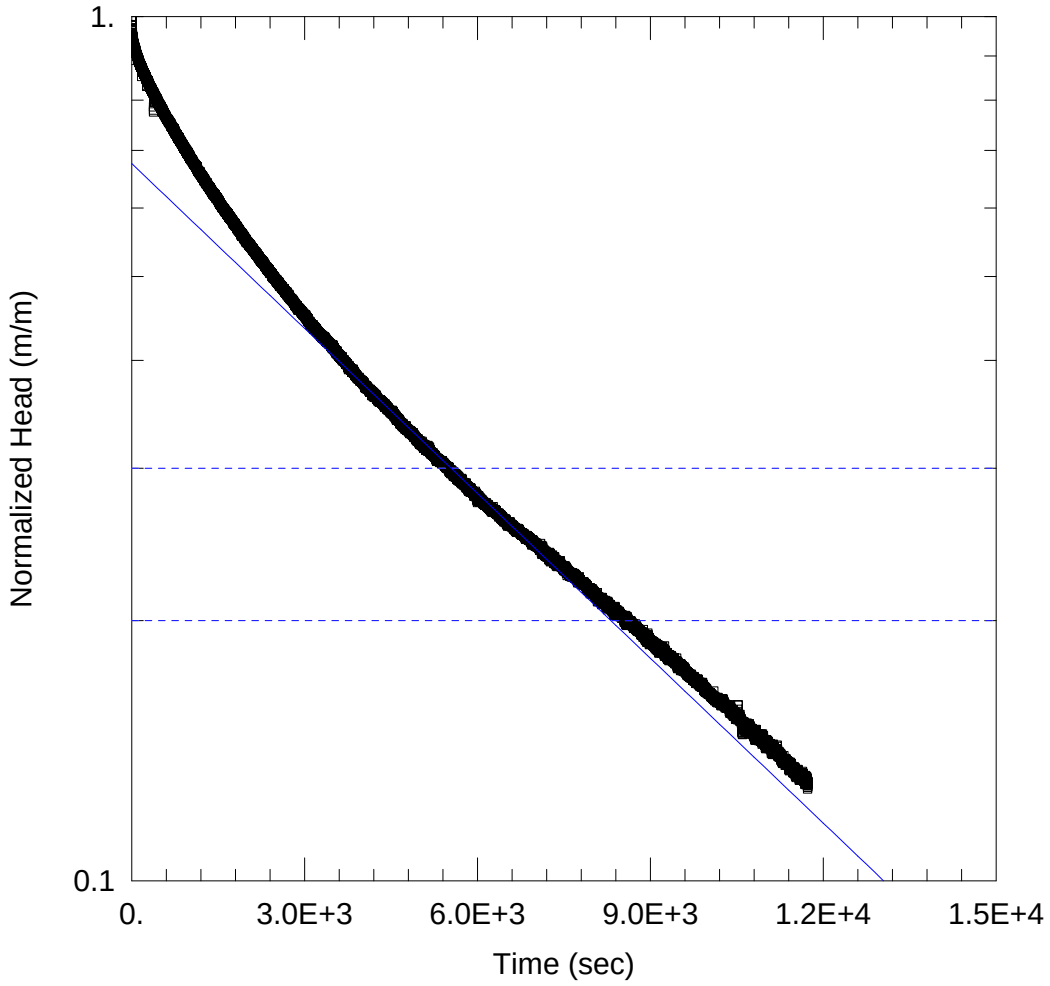
WELL DATA (ID43-GWBH05)

Initial Displacement: 0.4317 m
Total Well Penetration Depth: 17.23 m
Casing Radius: 0.025 m
Static Water Column Height: 17.23 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.03639 m/day y0 = 0.3792 m



RISING-HEAD 01

Data Set: \...\ID43-GWBH05_RH01_BR.aqt
Date: 05/23/17 Time: 10:44:22

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID43-GWBH05
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 22.23 m Anisotropy Ratio (Kz/Kr): 0.2

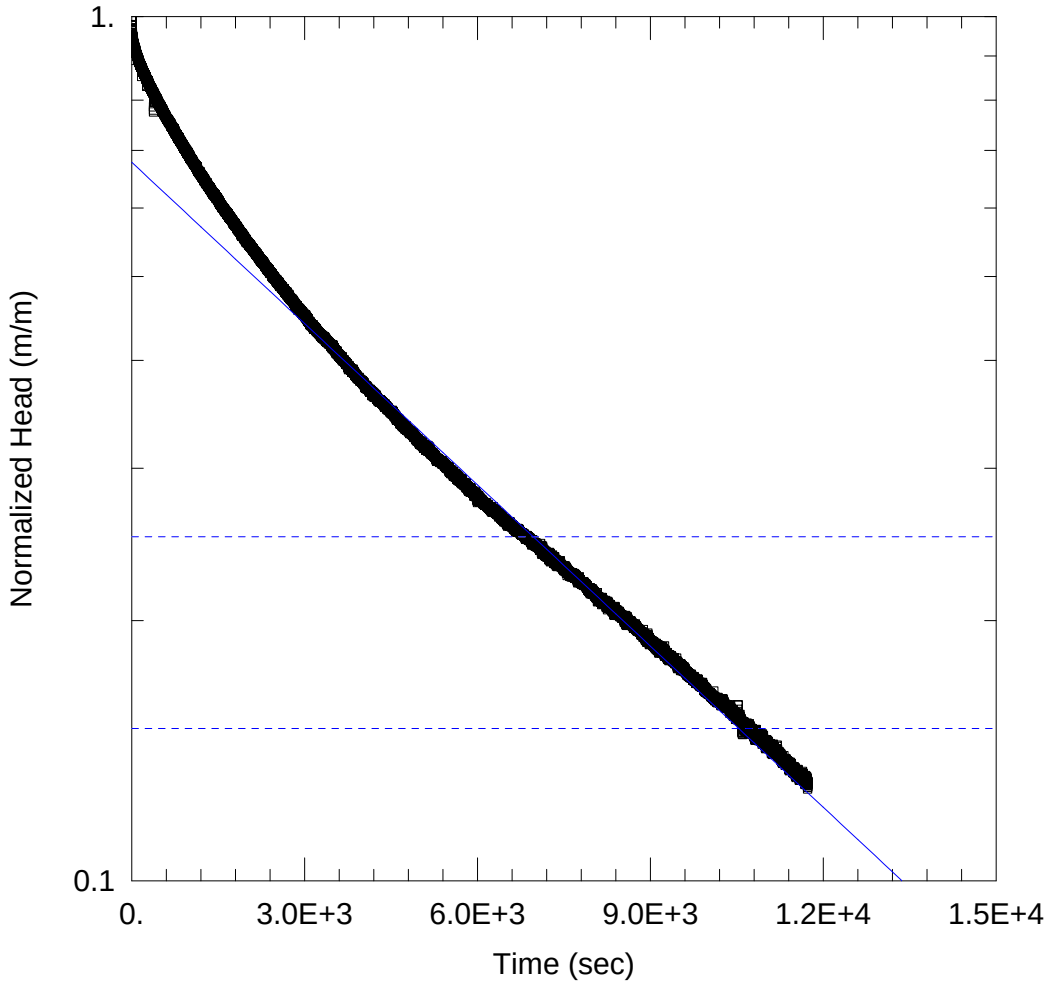
WELL DATA (ID43-GWBH05)

Initial Displacement: 0.458 m
Total Well Penetration Depth: 17.23 m
Casing Radius: 0.025 m
Static Water Column Height: 17.23 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.02604 m/day
y0 = 0.3094 m



RISING-HEAD 01

Data Set: \...\ID43-GWBH05_RH01_Hv.aqt
Date: 05/23/17 Time: 10:44:01

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID43-GWBH05
Test Date: 07.03.2017

AQUIFER DATA

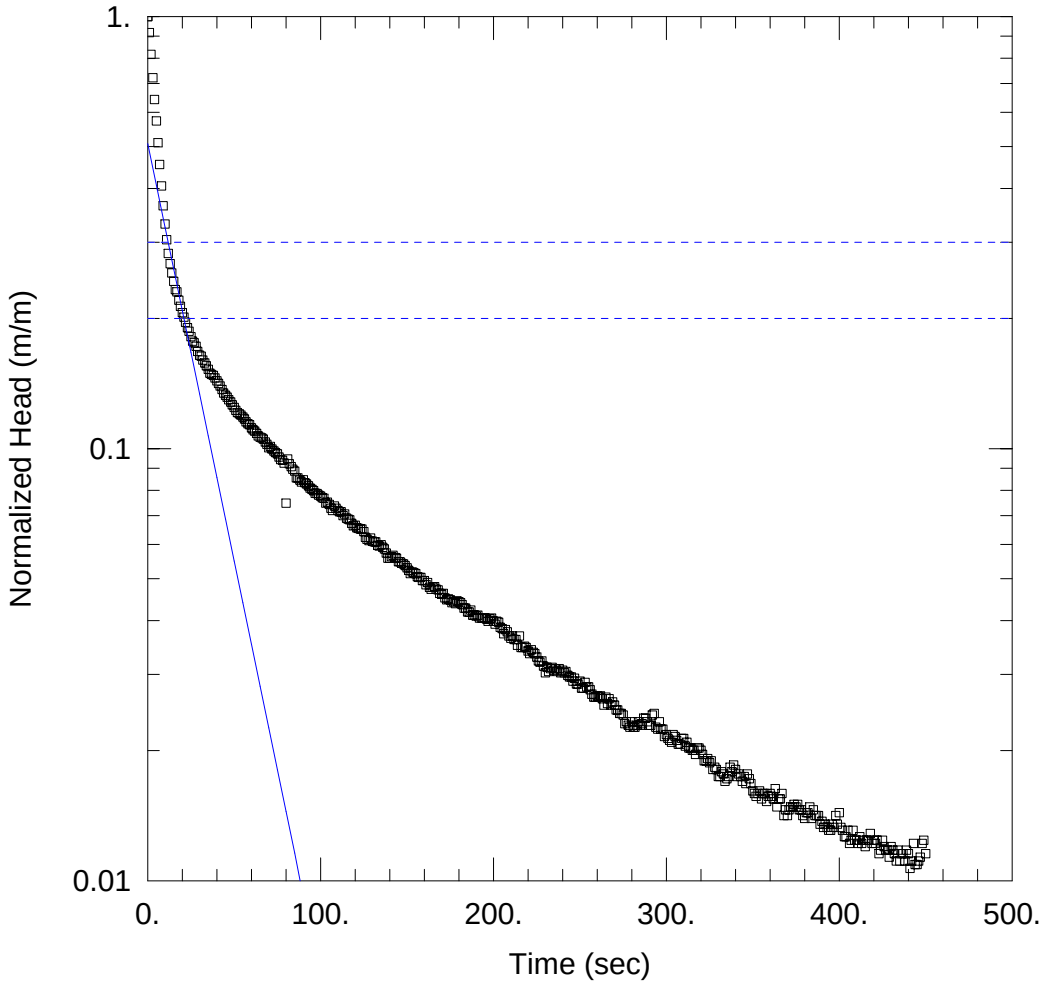
Saturated Thickness: 22.23 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID43-GWBH05)

Initial Displacement: 0.458 m
Total Well Penetration Depth: 17.23 m
Casing Radius: 0.025 m
Static Water Column Height: 17.23 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.02981 m/day
y0 = 0.3105 m



RISING-HEAD 01

Data Set: \...\ID44-GWBH01_RH01_BR.aqt
Date: 05/22/17 Time: 18:26:28

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID44-GWBH01
Test Date: 07.03.2017

AQUIFER DATA

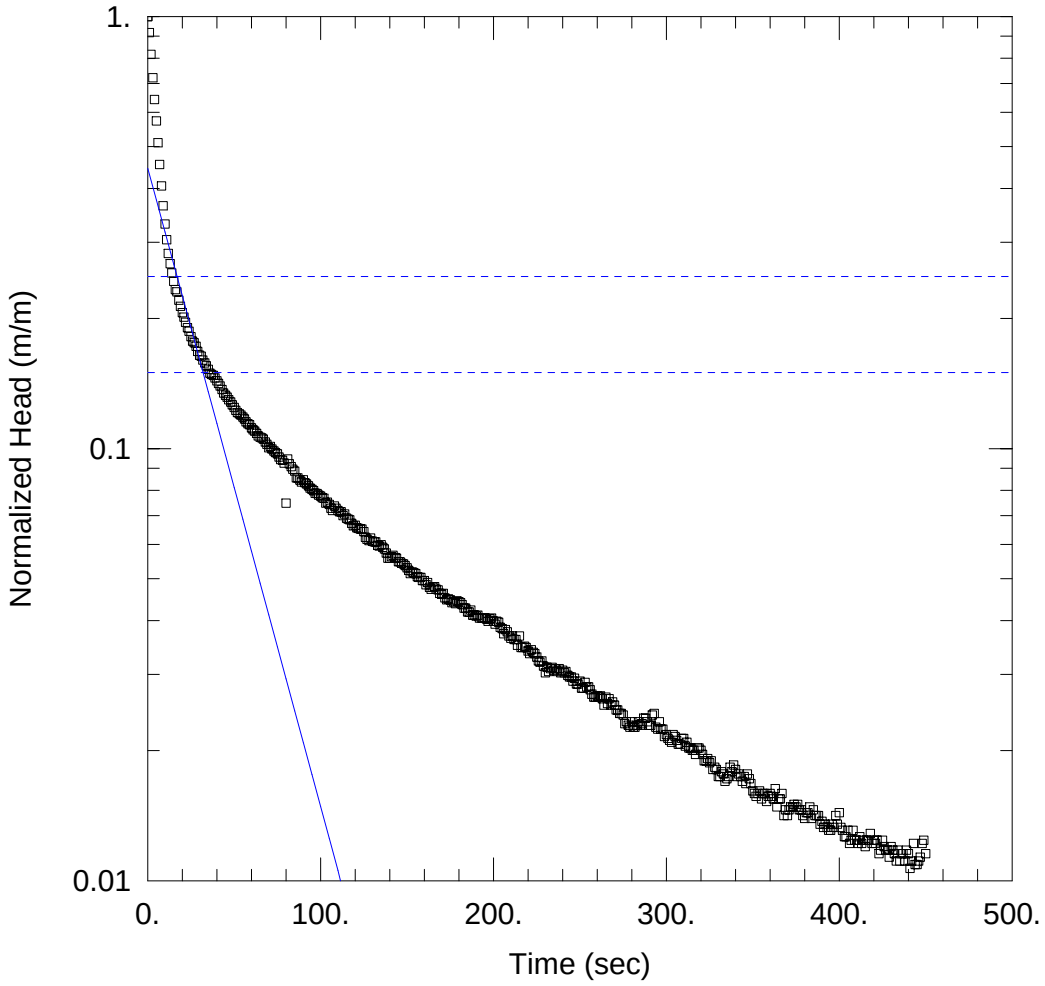
Saturated Thickness: 6.095 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID44-GWBH01)

Initial Displacement: 0.459 m
Total Well Penetration Depth: 1.095 m
Casing Radius: 0.025 m
Static Water Column Height: 1.095 m
Screen Length: 1.095 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 11.89 m/day
y0 = 0.233 m



RISING-HEAD 01

Data Set: \...\ID44-GWBH01_RH01_Hv.aqt
Date: 05/22/17 Time: 18:26:23

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID44-GWBH01
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 6.095 m Anisotropy Ratio (Kz/Kr): 0.2

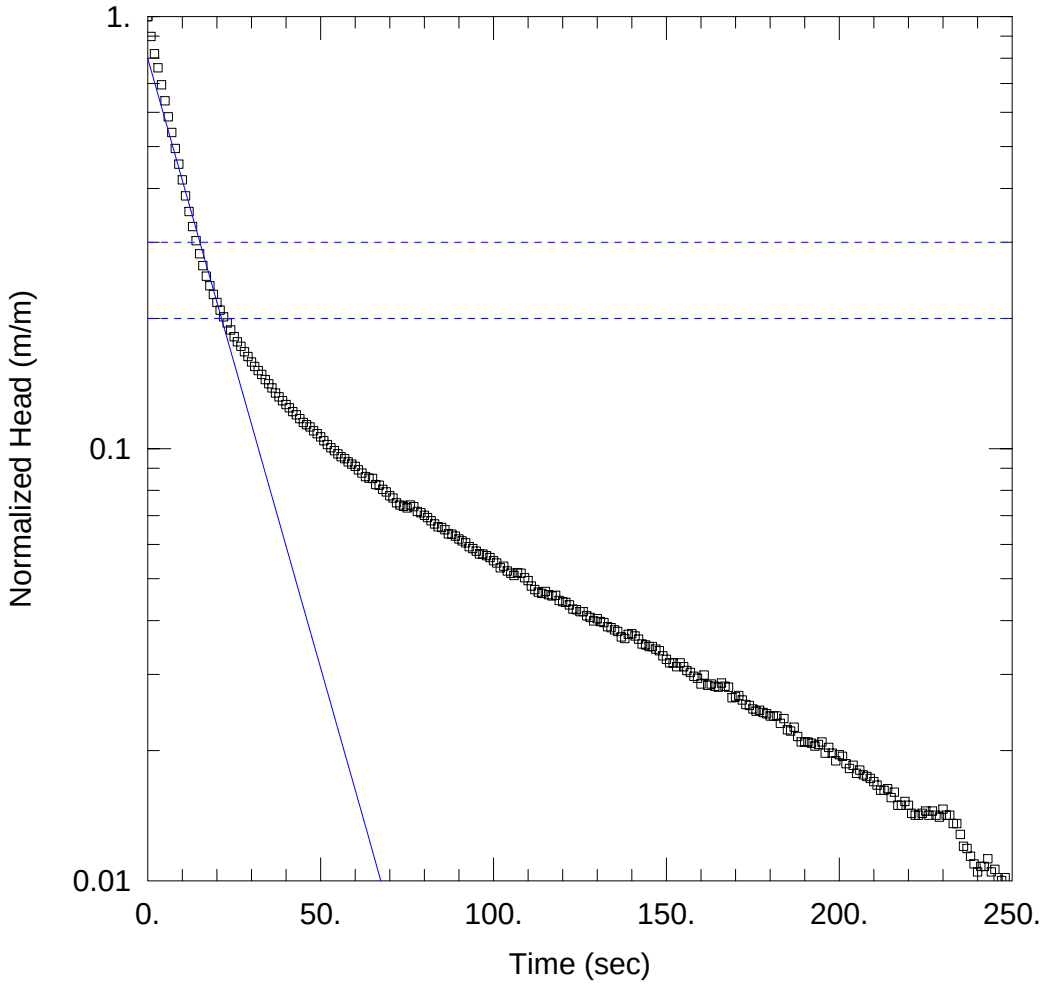
WELL DATA (ID44-GWBH01)

Initial Displacement: 0.459 m
Total Well Penetration Depth: 1.095 m
Casing Radius: 0.025 m
Static Water Column Height: 1.095 m
Screen Length: 1.095 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 14.76 m/day y0 = 0.2045 m



RISING-HEAD 02

Data Set: \...\ID44-GWBH01_RH02_BR.aqt
Date: 05/22/17 Time: 18:26:17

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID44-GWBH01
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 6.095 m Anisotropy Ratio (Kz/Kr): 0.2

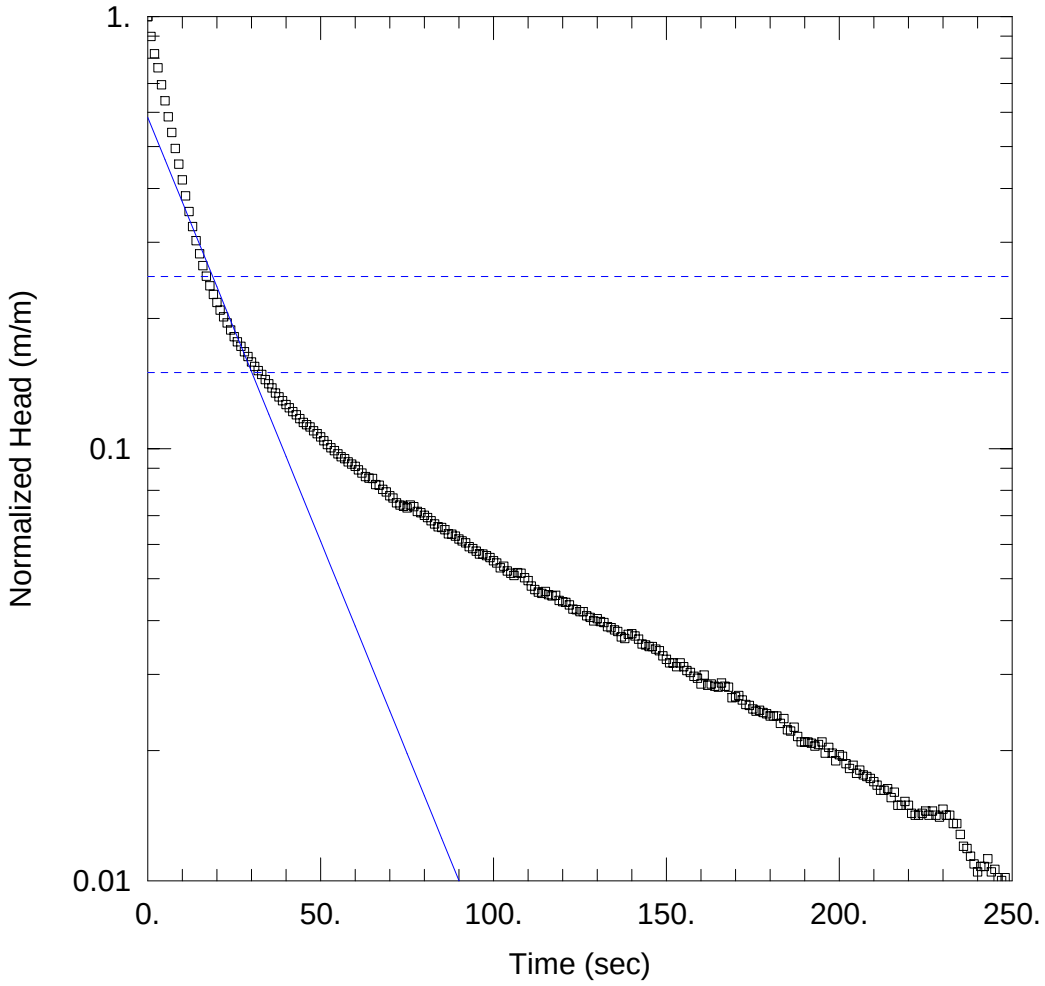
WELL DATA (ID44-GWBH01)

Initial Displacement: 0.649 m
Total Well Penetration Depth: 1.095 m
Casing Radius: 0.025 m
Static Water Column Height: 1.095 m
Screen Length: 1.095 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 17.36 m/day y0 = 0.5189 m



RISING-HEAD 02

Data Set: \...\ID44-GWBH01_RH02_Hv.aqt
Date: 05/22/17 Time: 18:26:10

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID44-GWBH01
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 6.095 m Anisotropy Ratio (Kz/Kr): 0.2

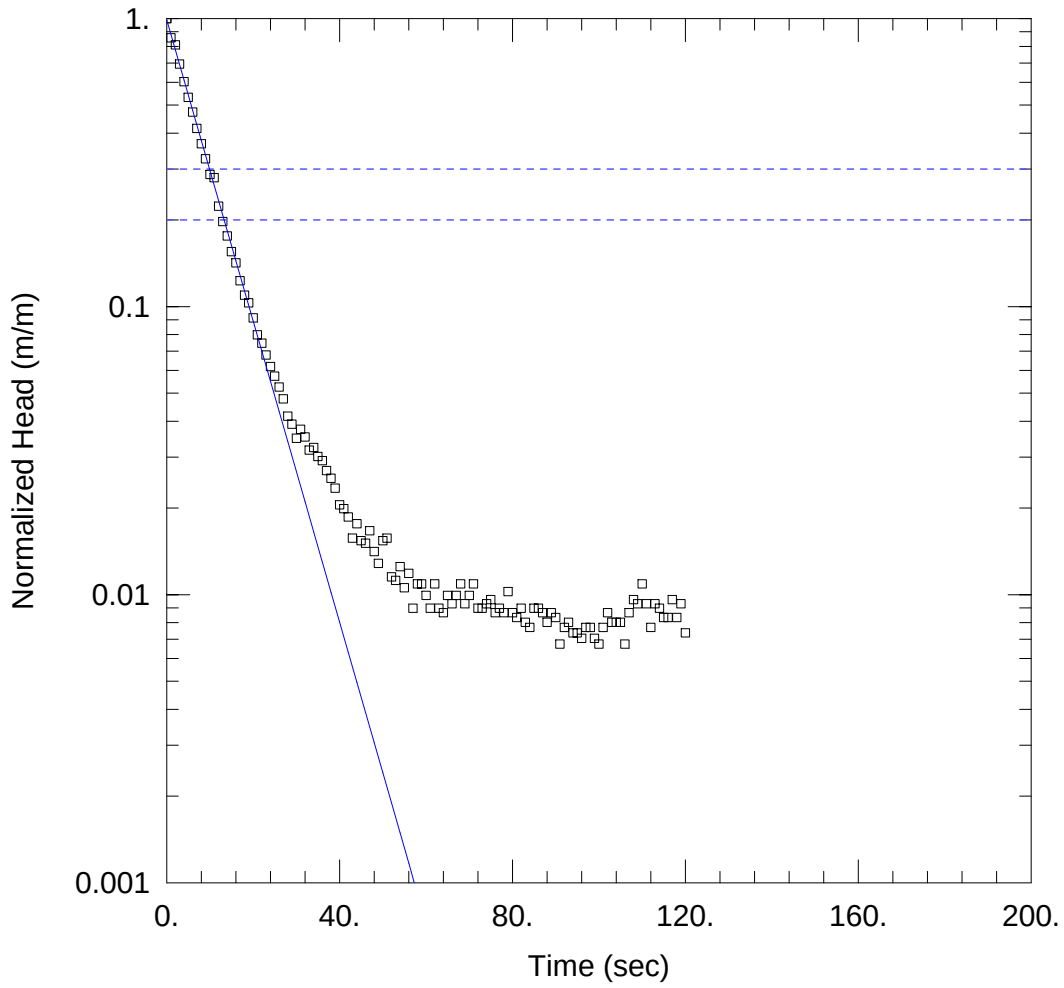
WELL DATA (ID44-GWBH01)

Initial Displacement: 0.649 m
Total Well Penetration Depth: 1.095 m
Casing Radius: 0.025 m
Static Water Column Height: 1.095 m
Screen Length: 1.095 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 19.61 m/day y0 = 0.3792 m



FALLING-HEAD 01

Data Set: \...\ID44-GWBH02_FH01_BR.aqt
Date: 05/22/17 Time: 18:39:43

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID44-GWBH02
Test Date: 07.03.2017

AQUIFER DATA

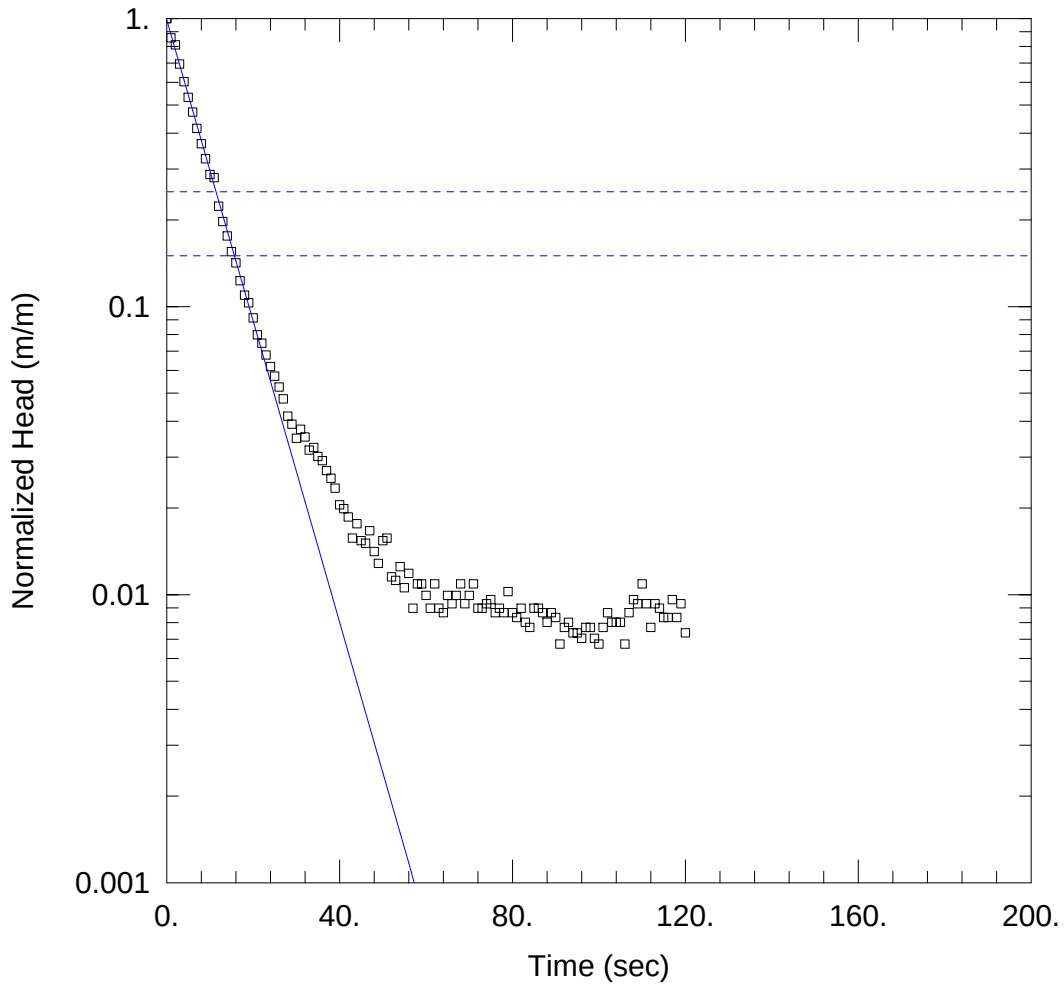
Saturated Thickness: 40.2 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID44-GWBH02)

Initial Displacement: 0.312 m
Total Well Penetration Depth: 35.2 m
Casing Radius: 0.025 m
Static Water Column Height: 35.2 m
Screen Length: 5.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 13.75 m/day
y0 = 0.3082 m



FALLING-HEAD 01

Data Set: \...\ID44-GWBH02_FH01_Hv.aqt
Date: 05/22/17 Time: 18:39:36

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID44-GWBH02
Test Date: 07.03.2017

AQUIFER DATA

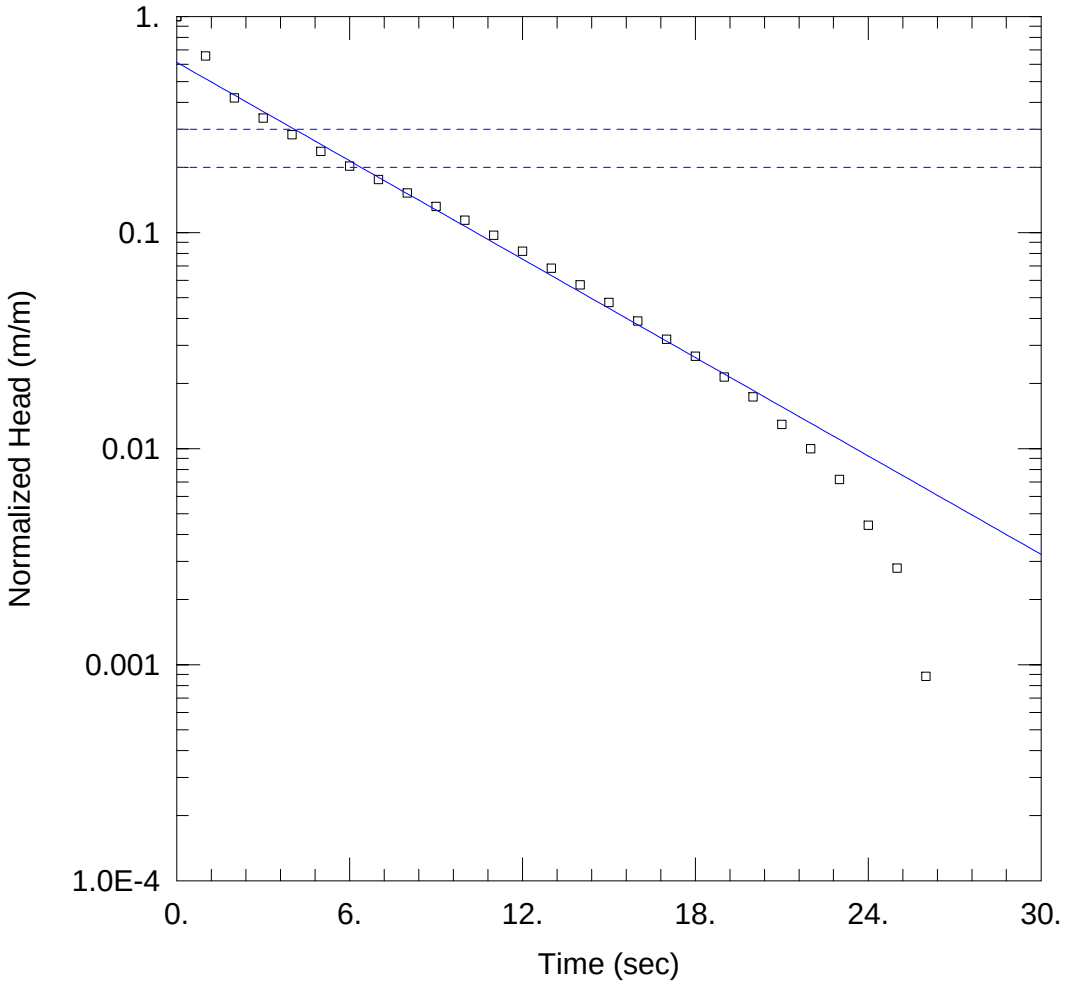
Saturated Thickness: 40.2 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID44-GWBH02)

Initial Displacement: 0.312 m
Total Well Penetration Depth: 35.2 m
Casing Radius: 0.025 m
Static Water Column Height: 35.2 m
Screen Length: 5.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 15.63 m/day
y0 = 0.3082 m



FALLING-HEAD 02

Data Set: \...\ID44-GWBH02_FH02_BR.aqt
Date: 05/22/17 Time: 18:39:31

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID44-GWBH02
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 40.2 m Anisotropy Ratio (Kz/Kr): 0.2

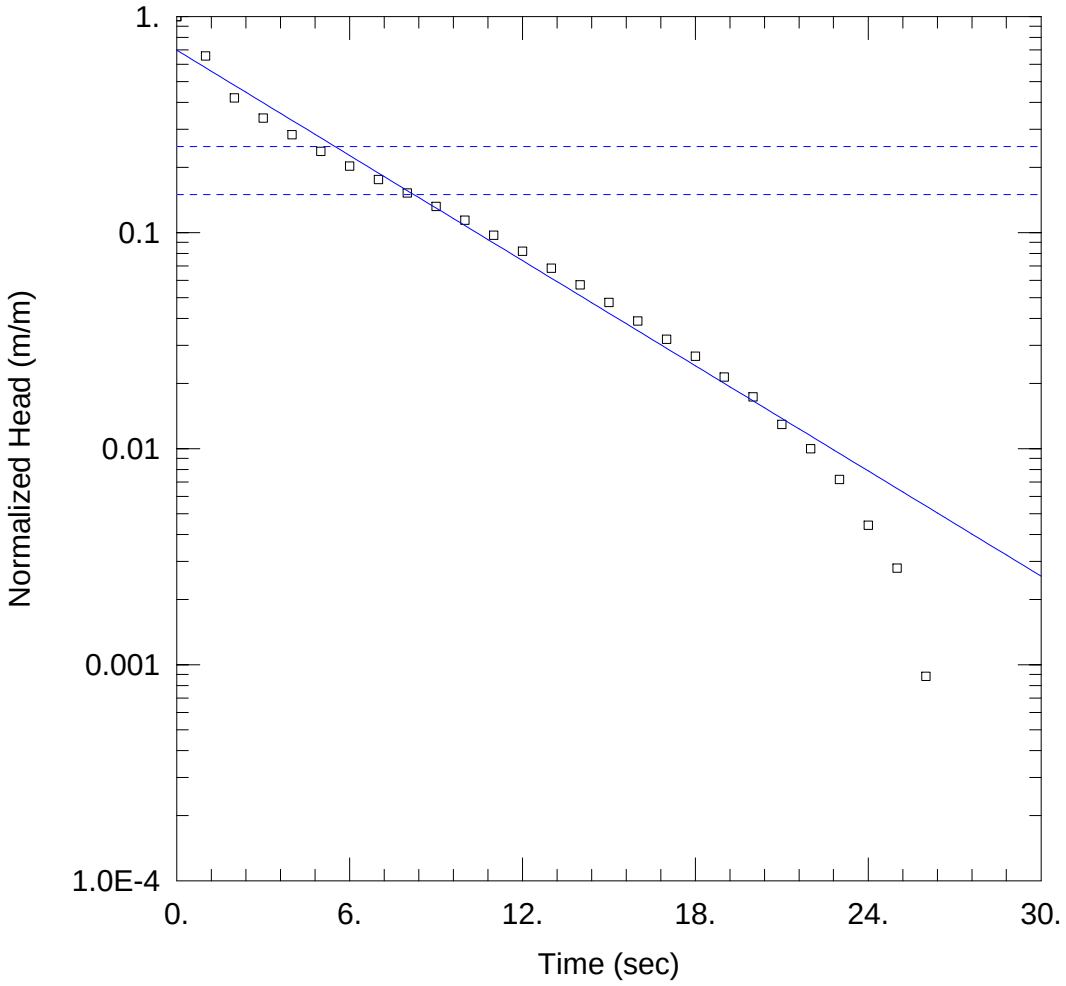
WELL DATA (ID44-GWBH02)

Initial Displacement: 0.68 m
Total Well Penetration Depth: 35.2 m
Casing Radius: 0.025 m
Static Water Column Height: 35.2 m
Screen Length: 5.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 19.96 m/day y0 = 0.417 m



FALLING-HEAD 02

Data Set: \...\ID44-GWBH02_FH02_Hv.aqt
Date: 05/22/17 Time: 18:39:26

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID44-GWBH02
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 40.2 m Anisotropy Ratio (Kz/Kr): 0.2

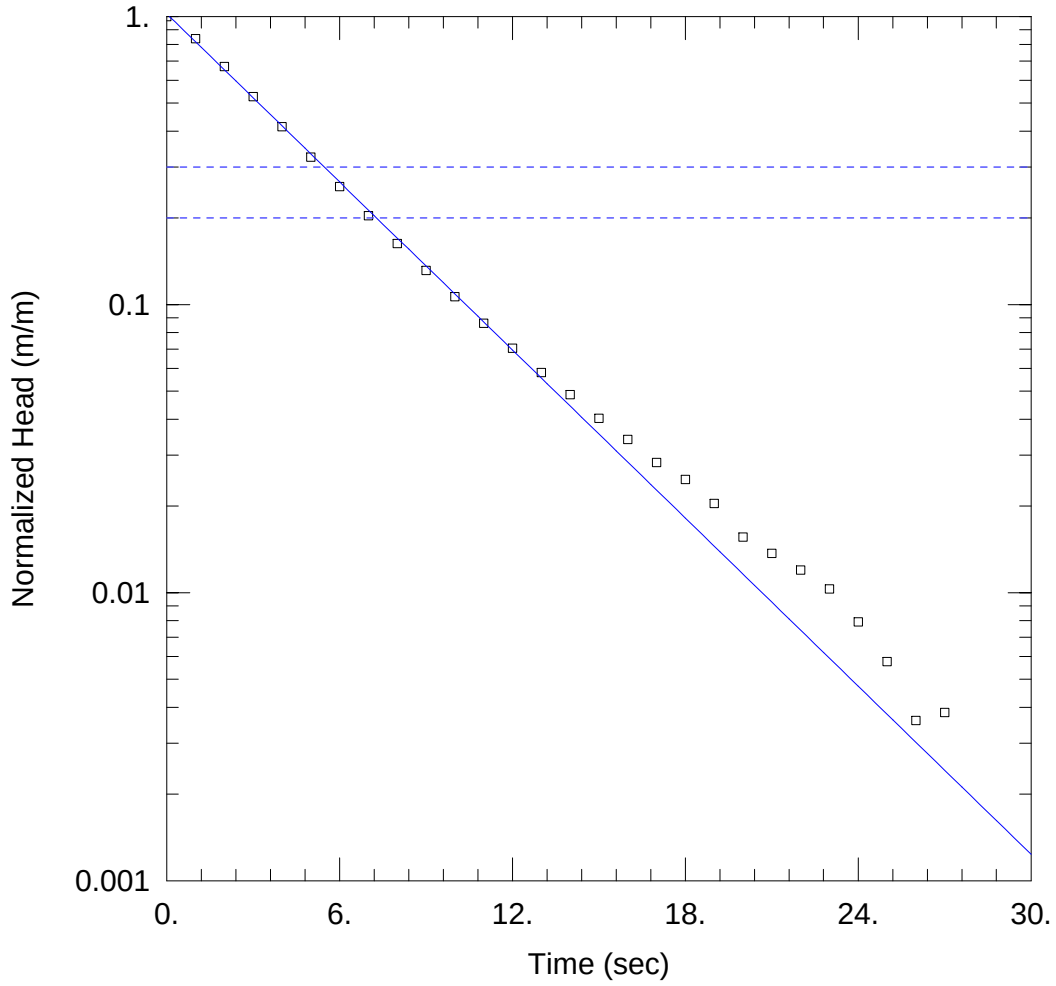
WELL DATA (ID44-GWBH02)

Initial Displacement: 0.68 m
Total Well Penetration Depth: 35.2 m
Casing Radius: 0.025 m
Static Water Column Height: 35.2 m
Screen Length: 5.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 24.27 m/day y0 = 0.4744 m



RISING-HEAD 01

Data Set: \...\ID44-GWBH02_RH01_BR.aqt
Date: 05/22/17 Time: 18:39:20

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID44-GWBH02
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 40.2 m Anisotropy Ratio (Kz/Kr): 0.2

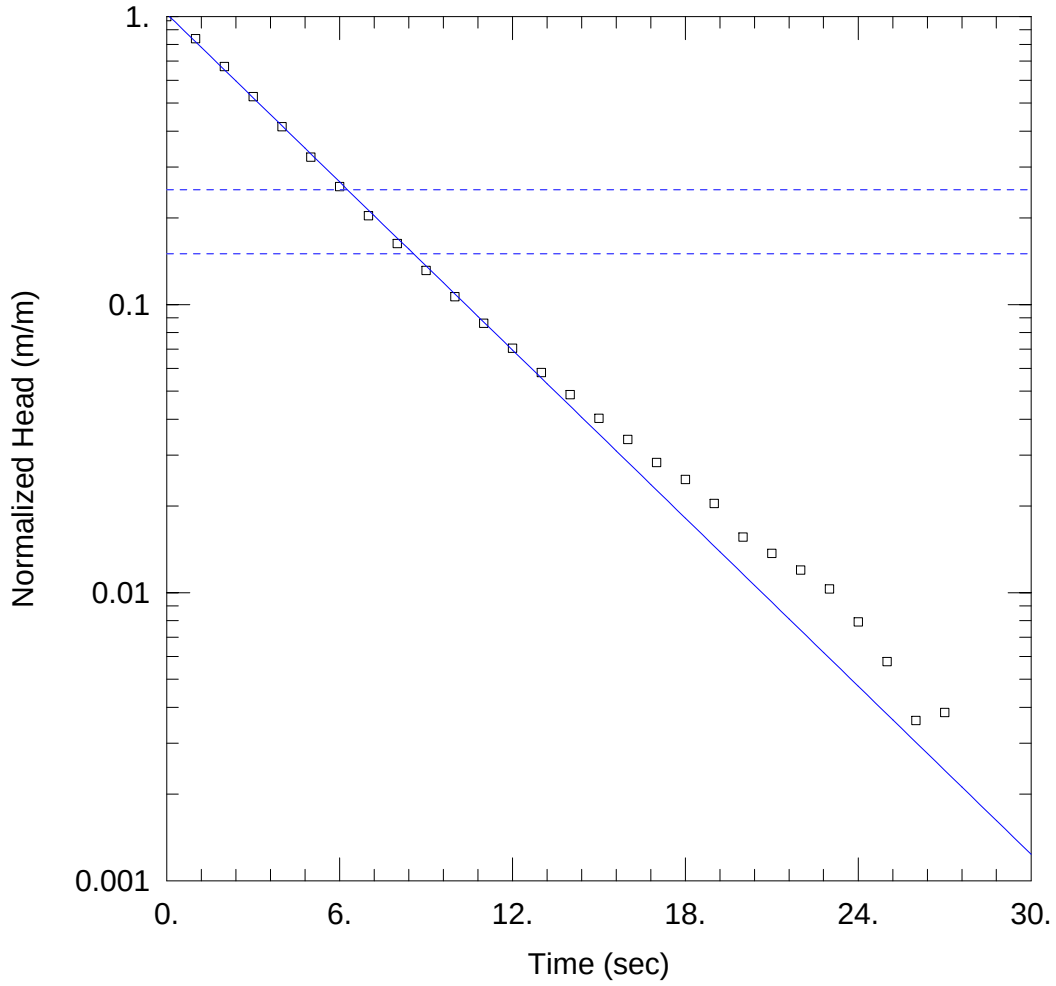
WELL DATA (ID44-GWBH02)

Initial Displacement: 0.417 m
Total Well Penetration Depth: 35.2 m
Casing Radius: 0.025 m
Static Water Column Height: 35.2 m
Screen Length: 5.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 25.58 m/day y0 = 0.4261 m



RISING-HEAD 01

Data Set: \...\ID44-GWBH02_RH01_Hv.aqt
Date: 05/22/17 Time: 18:39:14

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID44-GWBH02
Test Date: 07.03.2017

AQUIFER DATA

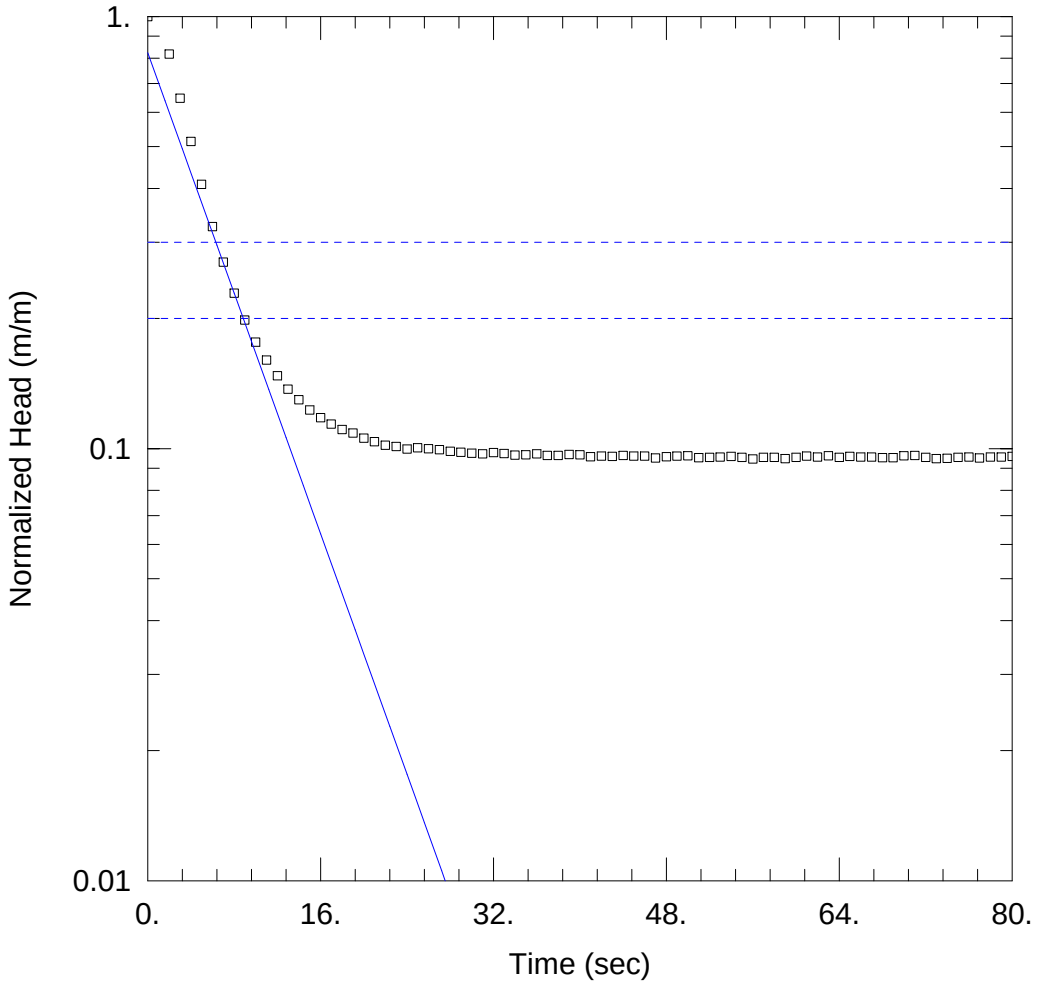
Saturated Thickness: 40.2 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID44-GWBH02)

Initial Displacement: 0.417 m
Total Well Penetration Depth: 35.2 m
Casing Radius: 0.025 m
Static Water Column Height: 35.2 m
Screen Length: 5.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 29.1 m/day
y0 = 0.4261 m



RISING-HEAD 02

Data Set: \...\ID44-GWBH02_RH02_BR.aqt
Date: 05/22/17 Time: 18:39:09

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID44-GWBH02
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 40.2 m Anisotropy Ratio (Kz/Kr): 0.2

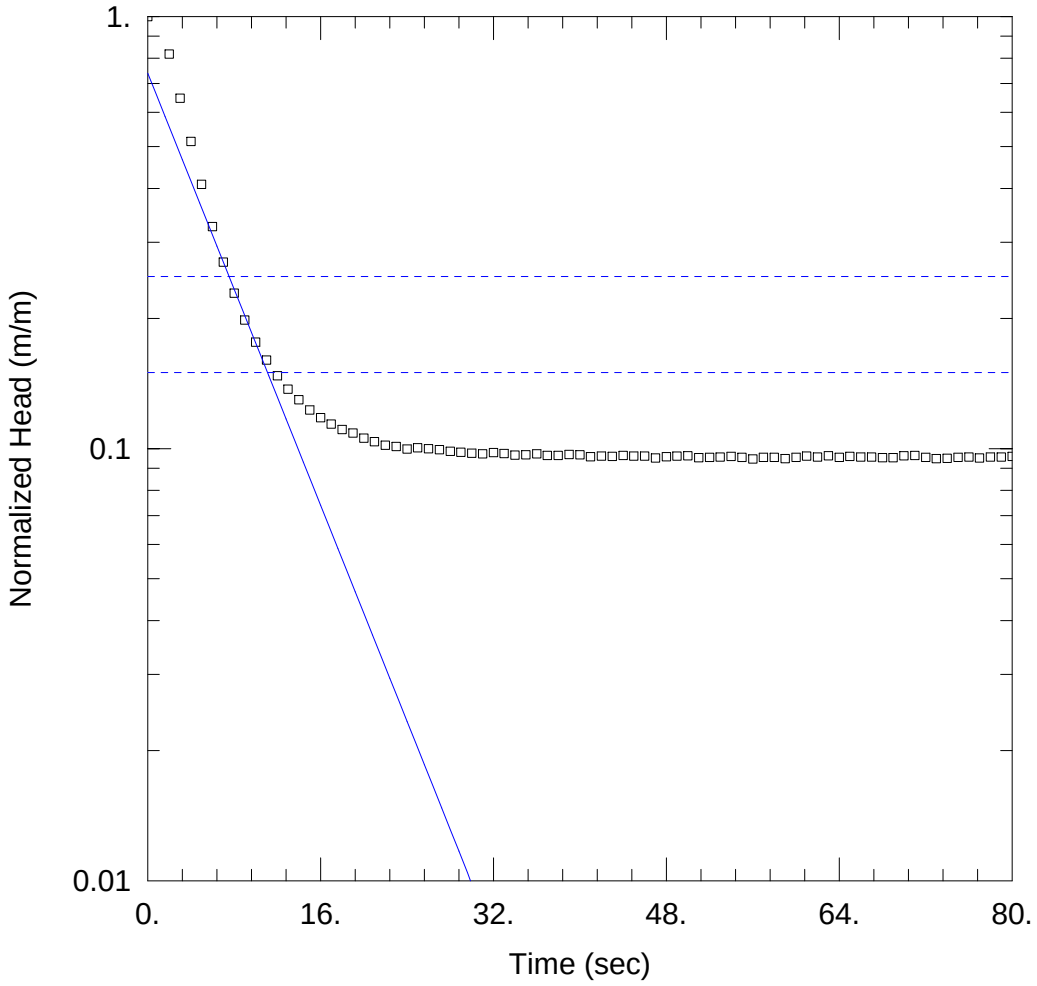
WELL DATA (ID44-GWBH02)

Initial Displacement: 0.642 m
Total Well Penetration Depth: 35.2 m
Casing Radius: 0.025 m
Static Water Column Height: 35.2 m
Screen Length: 5.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 18.3 m/day y0 = 0.5291 m



RISING-HEAD 02

Data Set: \...\ID44-GWBH02_RH02_Hv.aqt
Date: 05/22/17 Time: 18:39:04

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID44-GWBH02
Test Date: 07.03.2017

AQUIFER DATA

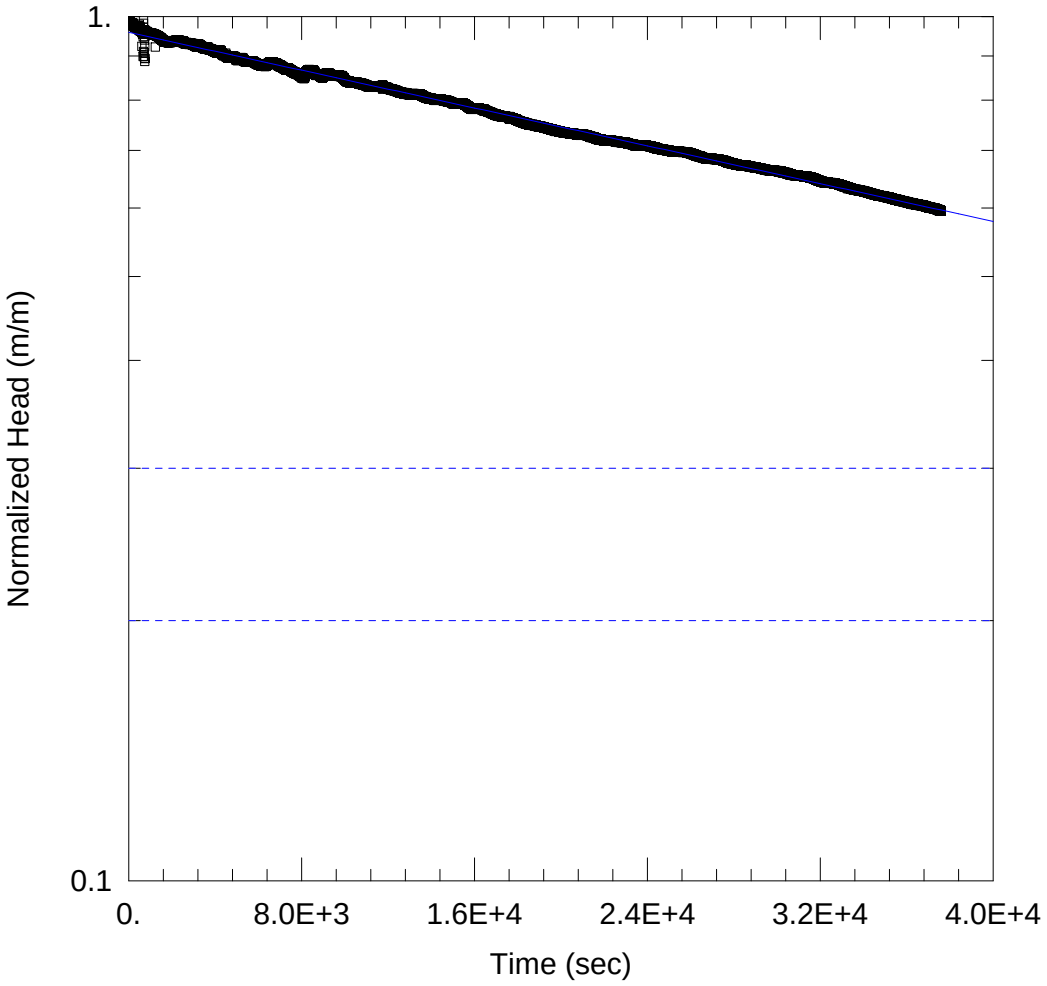
Saturated Thickness: 40.2 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID44-GWBH02)

Initial Displacement: 0.642 m
Total Well Penetration Depth: 35.2 m
Casing Radius: 0.025 m
Static Water Column Height: 35.2 m
Screen Length: 5.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 18.7 m/day
y0 = 0.4746 m



FALLING HEAD 01

Data Set: \...\ID46-GWBH01_FH01_BR.aqt
Date: 05/22/17 Time: 18:43:46

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH01
Test Date: 13/04/2017

AQUIFER DATA

Saturated Thickness: 38.88 m Anisotropy Ratio (Kz/Kr): 0.2

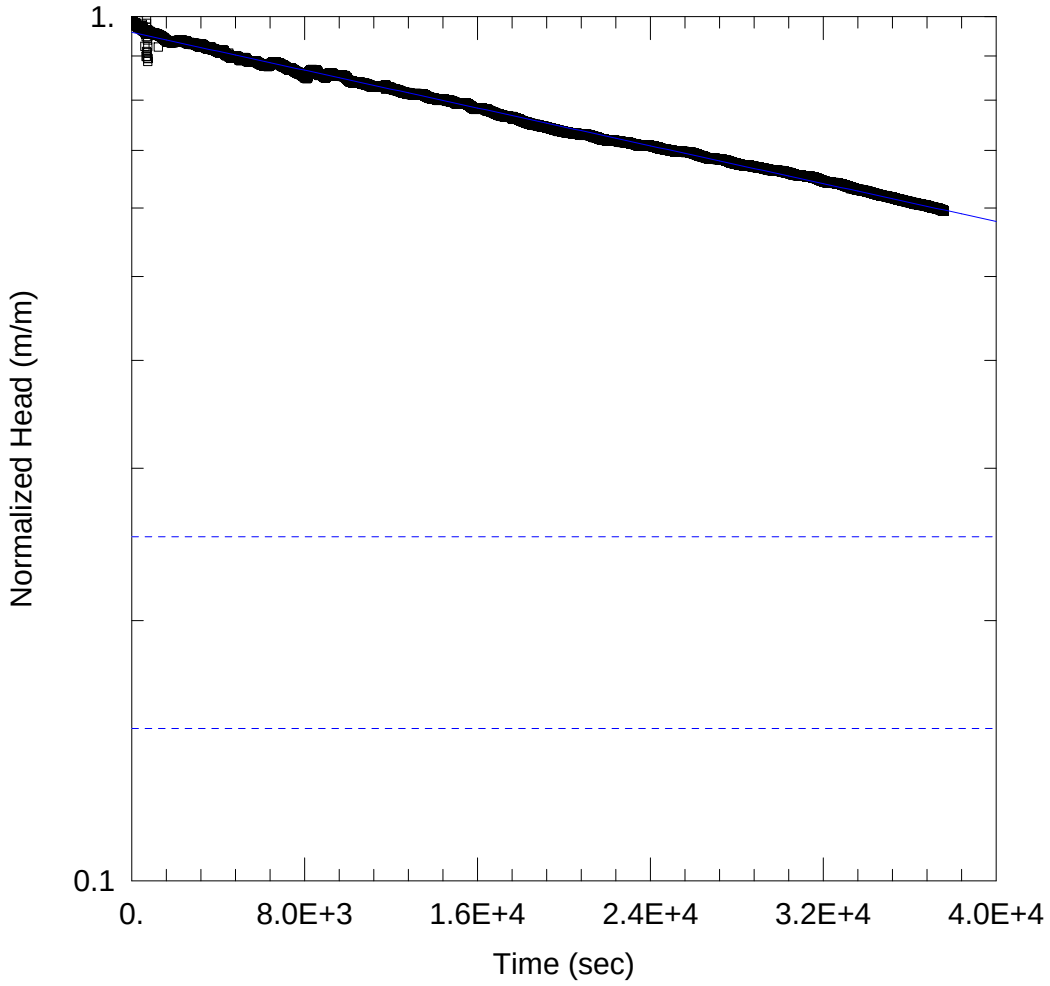
WELL DATA (ID46-GWBH01)

Initial Displacement: 0.735 m
Total Well Penetration Depth: 33.89 m
Casing Radius: 0.025 m
Static Water Column Height: 33.88 m
Screen Length: 4.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.001704 m/day y0 = 0.7044 m



FALLING HEAD 01

Data Set: \...\ID46-GWBH01_FH01_Hv.aqt
Date: 05/22/17 Time: 18:43:12

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH01
Test Date: 13/04/2017

AQUIFER DATA

Saturated Thickness: 38.88 m Anisotropy Ratio (Kz/Kr): 0.2

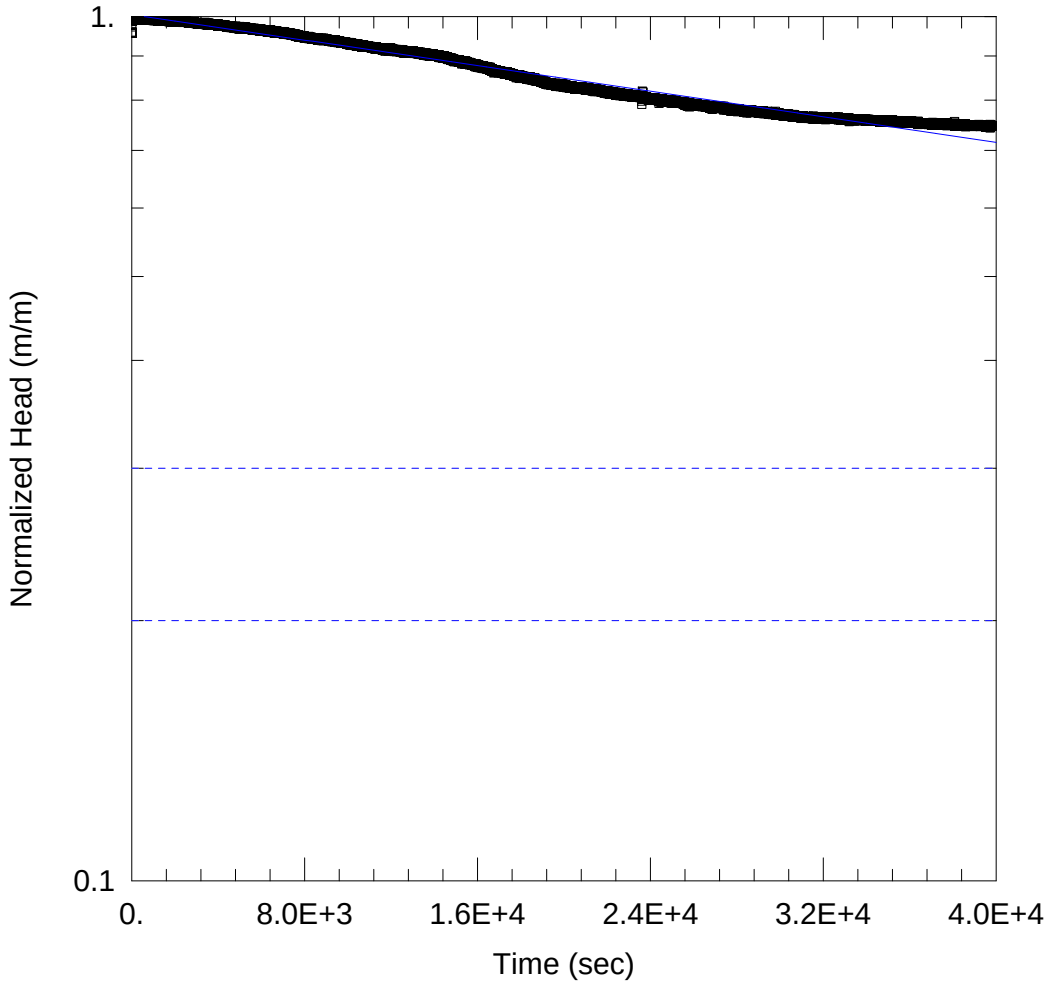
WELL DATA (ID46-GWBH01)

Initial Displacement: 0.735 m
Total Well Penetration Depth: 33.89 m
Casing Radius: 0.025 m
Static Water Column Height: 33.88 m
Screen Length: 4.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.001916 m/day y0 = 0.7044 m



FALLING HEAD 02

Data Set: \...\ID46-GWBH01_FH02_BR.aqt
Date: 05/22/17 Time: 18:43:23

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH01
Test Date: 07/04/2017

AQUIFER DATA

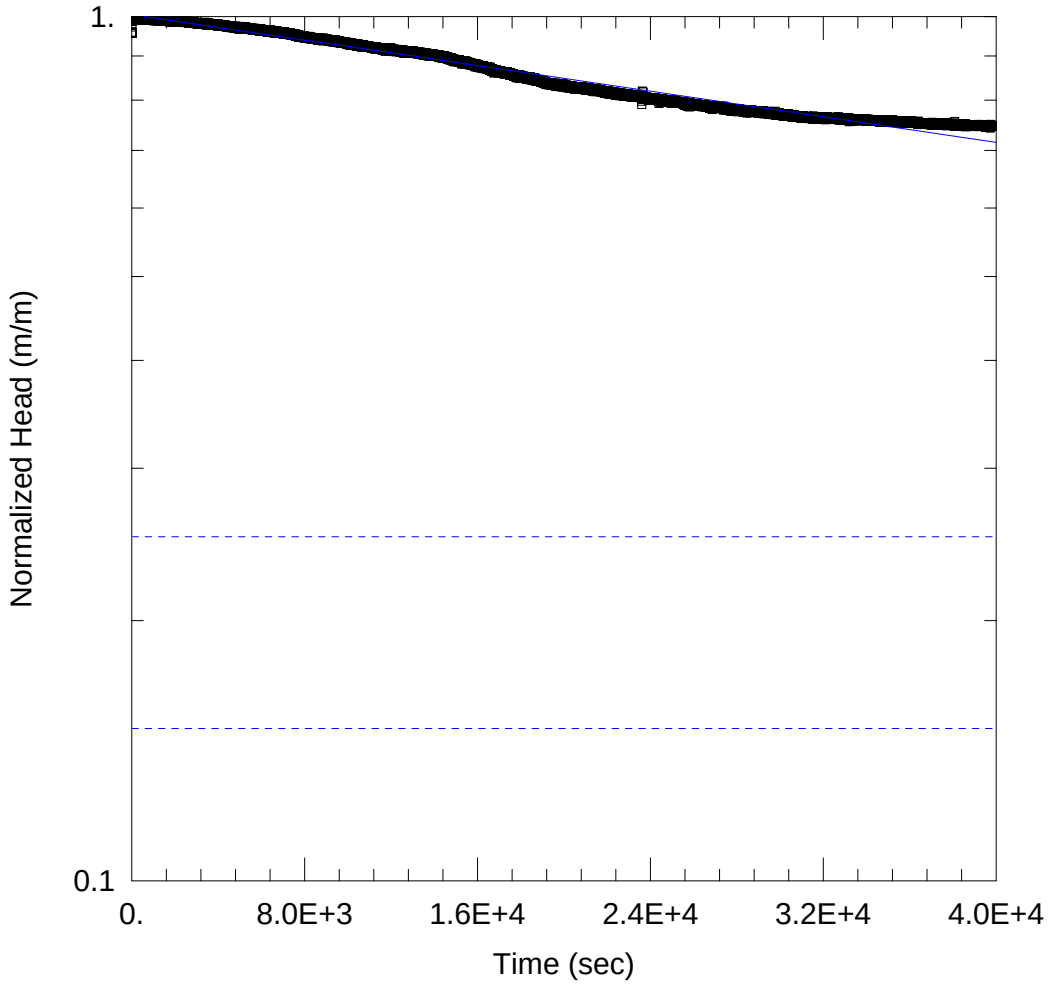
Saturated Thickness: 38.88 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID46-GWBH01)

Initial Displacement: 0.498 m
Total Well Penetration Depth: 33.89 m
Casing Radius: 0.025 m
Static Water Column Height: 33.88 m
Screen Length: 4.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.001151 m/day
y0 = 0.5005 m



FALLING HEAD 02

Data Set: \...\ID46-GWBH01_FH02_Hv.aqt
Date: 05/22/17 Time: 18:43:34

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH01
Test Date: 07/04/2017

AQUIFER DATA

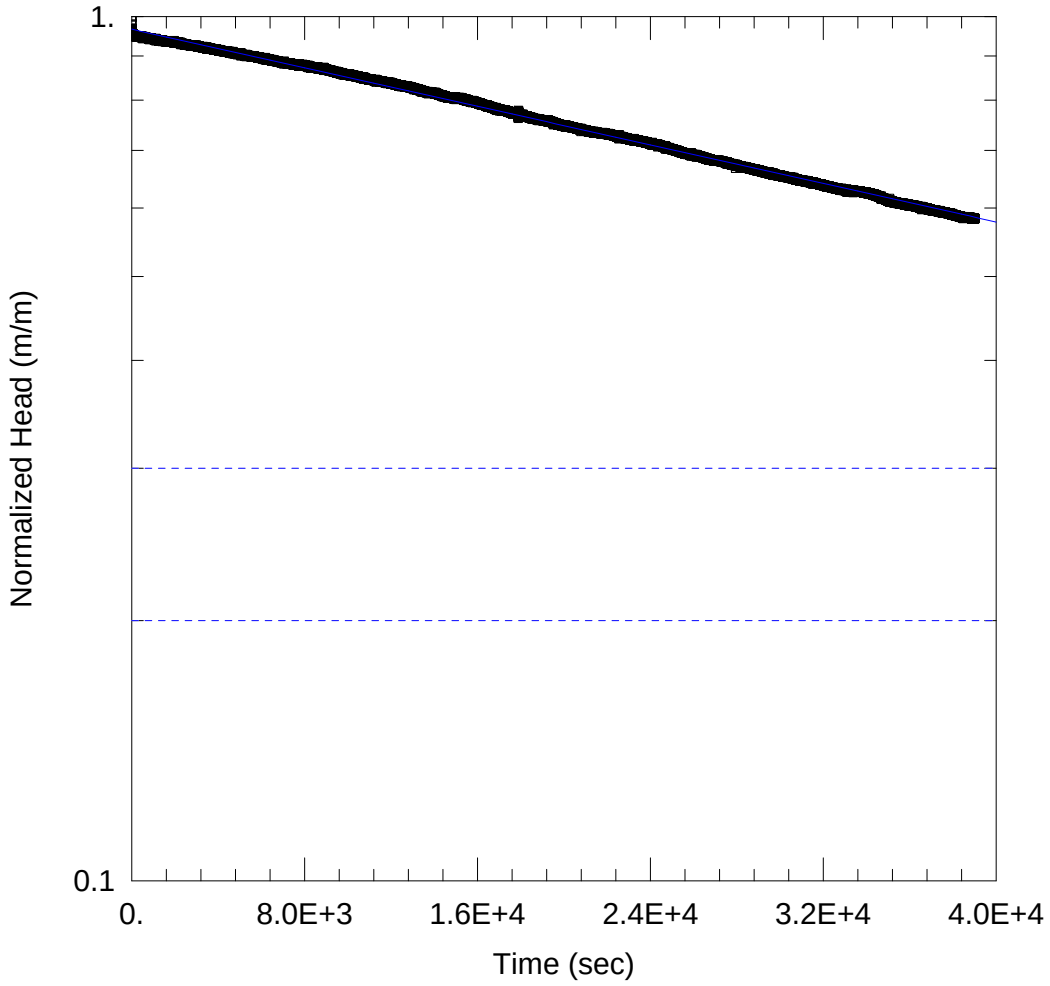
Saturated Thickness: 38.88 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID46-GWBH01)

Initial Displacement: 0.498 m
Total Well Penetration Depth: 33.89 m
Casing Radius: 0.025 m
Static Water Column Height: 33.88 m
Screen Length: 4.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.001294 m/day
y0 = 0.5005 m



RISING HEAD 02

Data Set: \...\ID46-GWBH01_RH02_BR.aqt
Date: 05/22/17 Time: 18:42:56

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH01
Test Date: 17/04/2017

AQUIFER DATA

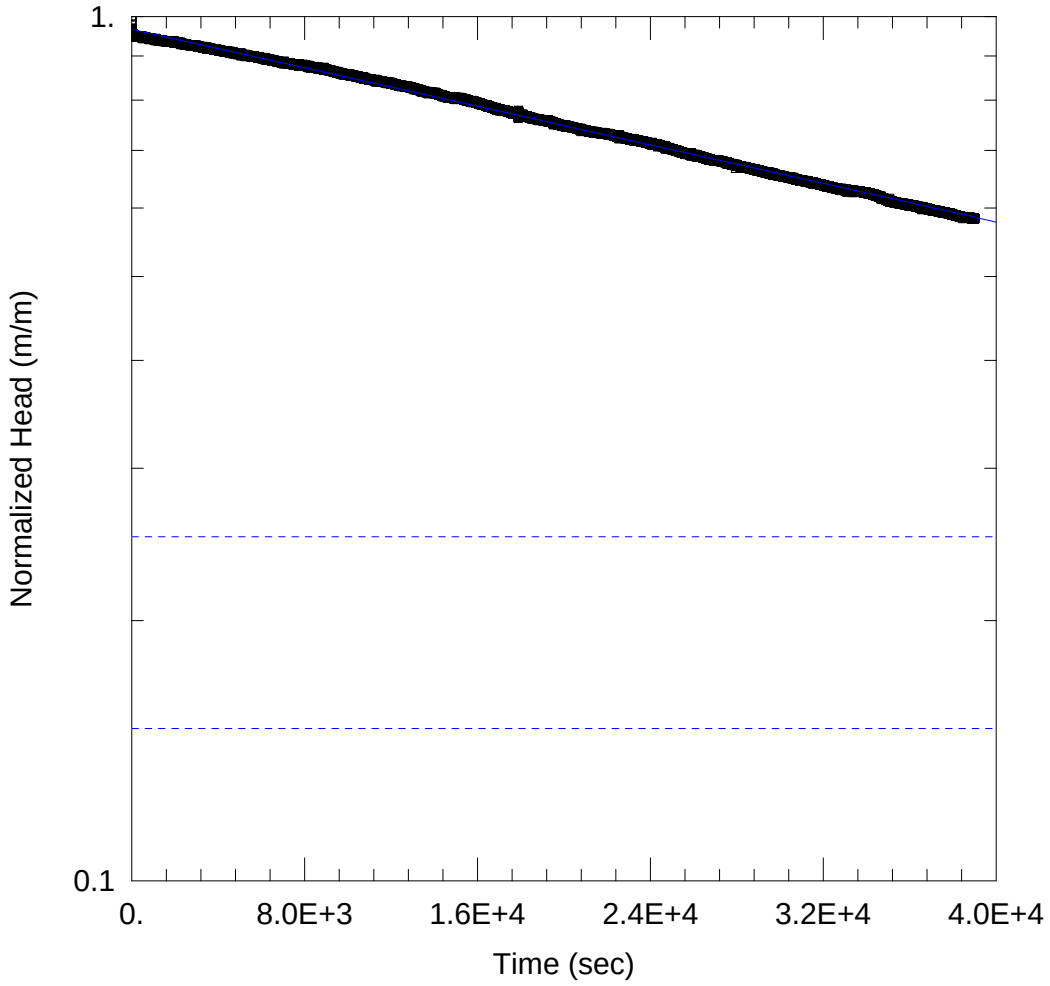
Saturated Thickness: 38.88 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID46-GWBH01)

Initial Displacement: 0.511 m
Total Well Penetration Depth: 33.89 m
Casing Radius: 0.025 m
Static Water Column Height: 33.88 m
Screen Length: 4.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.001737 m/day
y0 = 0.4939 m



RISING HEAD 02

Data Set: \...\ID46-GWBH01_RH02_Hv.aqt
Date: 05/22/17 Time: 18:42:43

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH01
Test Date: 17/04/2017

AQUIFER DATA

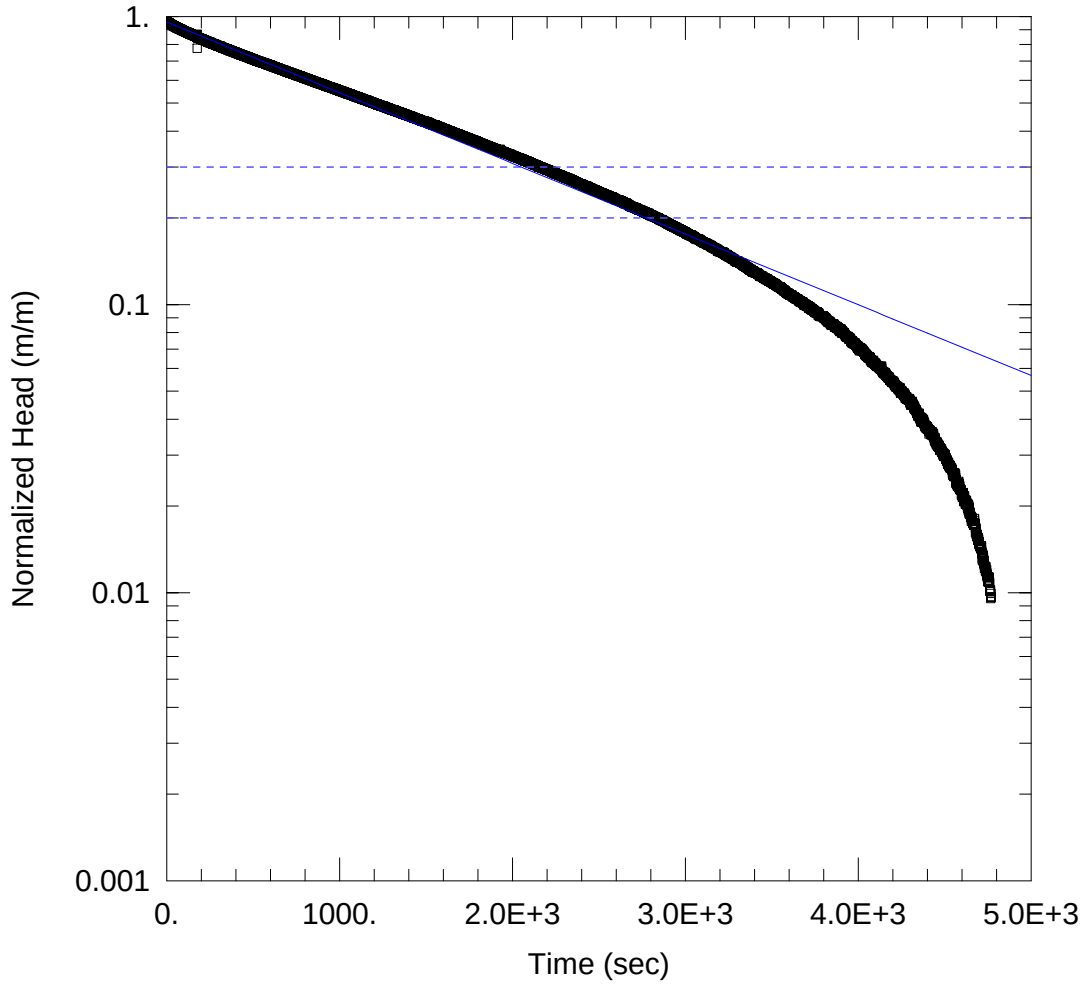
Saturated Thickness: 38.88 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID46-GWBH01)

Initial Displacement: 0.511 m
Total Well Penetration Depth: 33.89 m
Casing Radius: 0.025 m
Static Water Column Height: 33.88 m
Screen Length: 4.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.001953 m/day
y0 = 0.4939 m



FALLING HEAD 01

Data Set: \...\ID46-GWBH03_FH01_BR.aqt
Date: 05/22/17 Time: 18:46:52

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH03
Test Date: 29/03/2017

AQUIFER DATA

Saturated Thickness: 17.59 m Anisotropy Ratio (Kz/Kr): 0.2

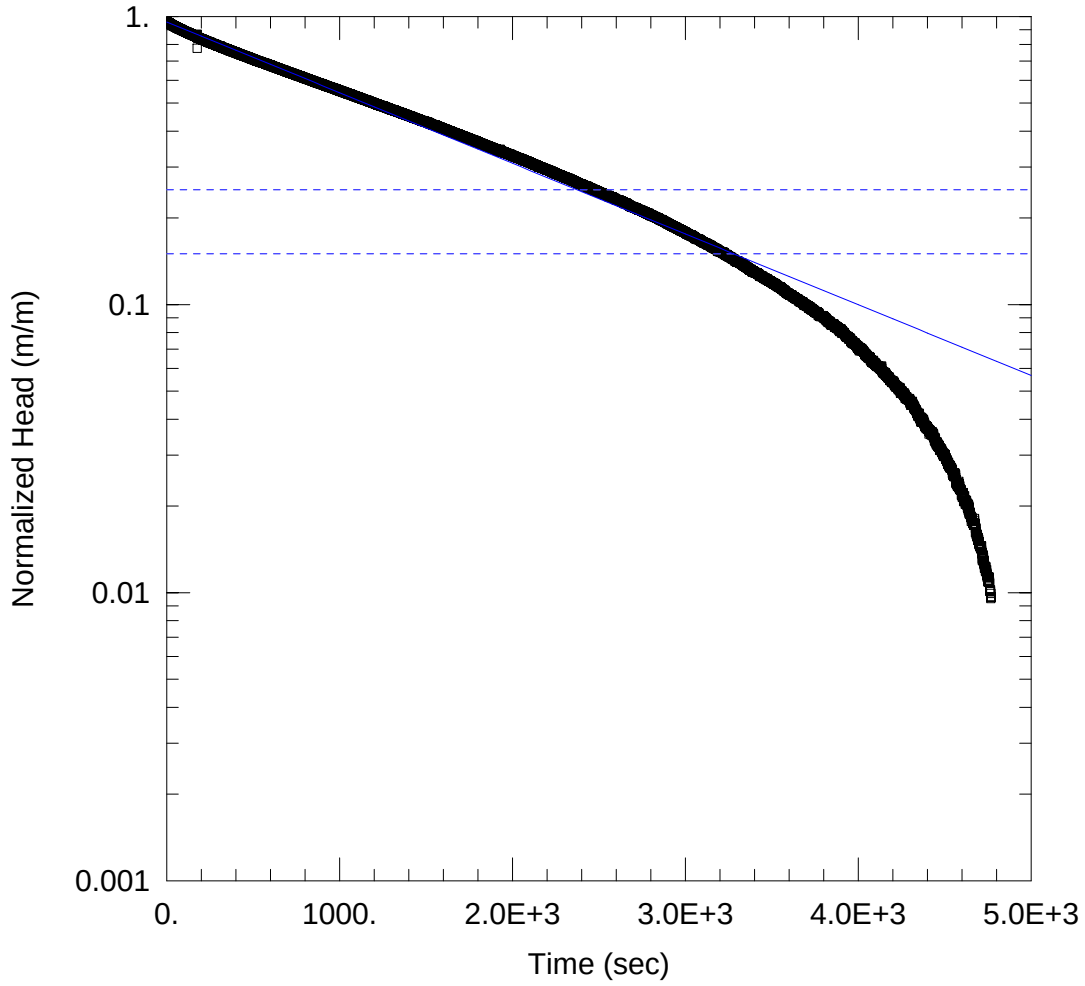
WELL DATA (ID46-GWBH03)

Initial Displacement: 0.7242 m
Total Well Penetration Depth: 12.59 m
Casing Radius: 0.025 m
Static Water Column Height: 12.59 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.09696 m/day y0 = 0.6931 m



FALLING HEAD 01

Data Set: \...\ID46-GWBH03_FH01_Hv.aqt
Date: 05/22/17 Time: 18:46:46

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH03
Test Date: 29/03/2017

AQUIFER DATA

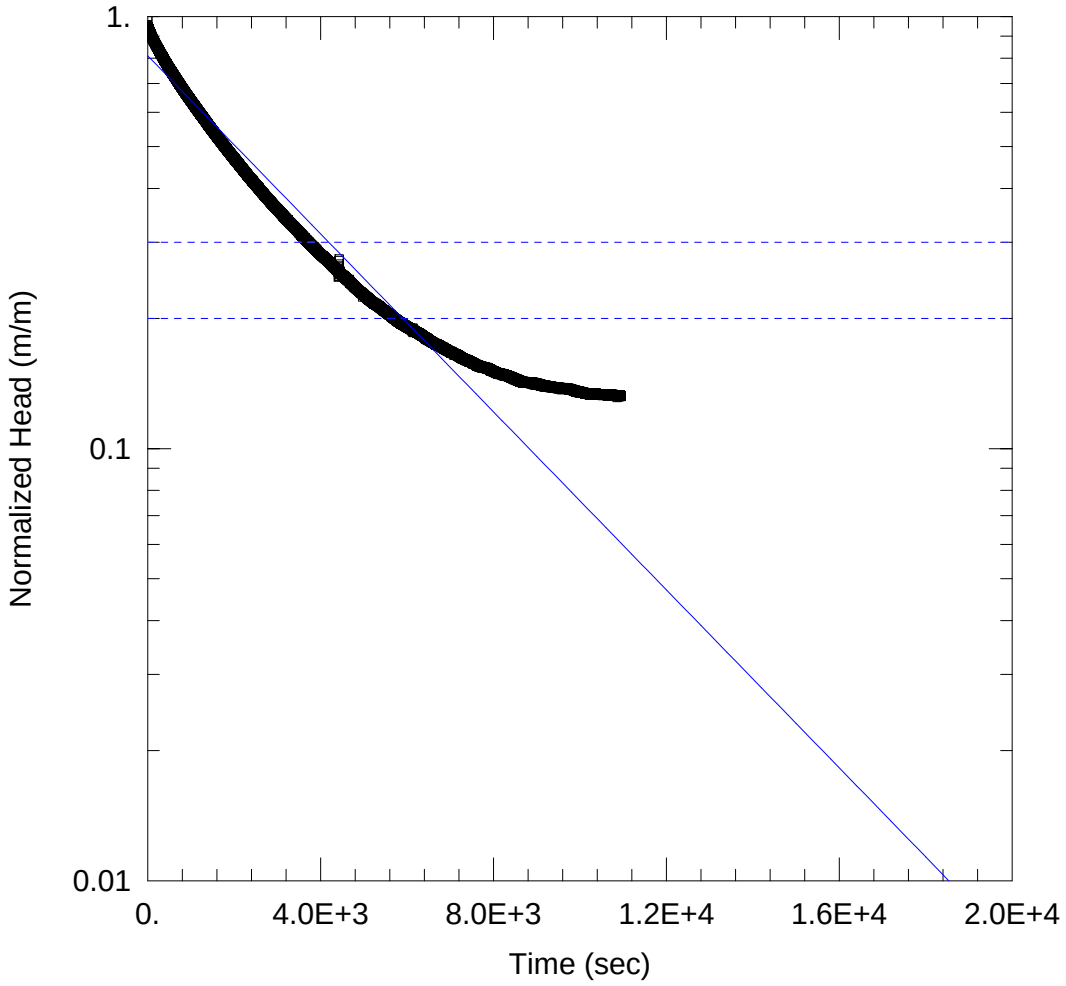
Saturated Thickness: 17.59 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID46-GWBH03)

Initial Displacement: 0.7242 m
Total Well Penetration Depth: 12.59 m
Casing Radius: 0.025 m
Static Water Column Height: 12.59 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.1176 m/day
y0 = 0.693 m



FALLING HEAD 02

Data Set: \...\ID46-GWBH03_FH02_BR.aqt
Date: 05/22/17 Time: 18:46:41

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH03
Test Date: 29/03/2017

AQUIFER DATA

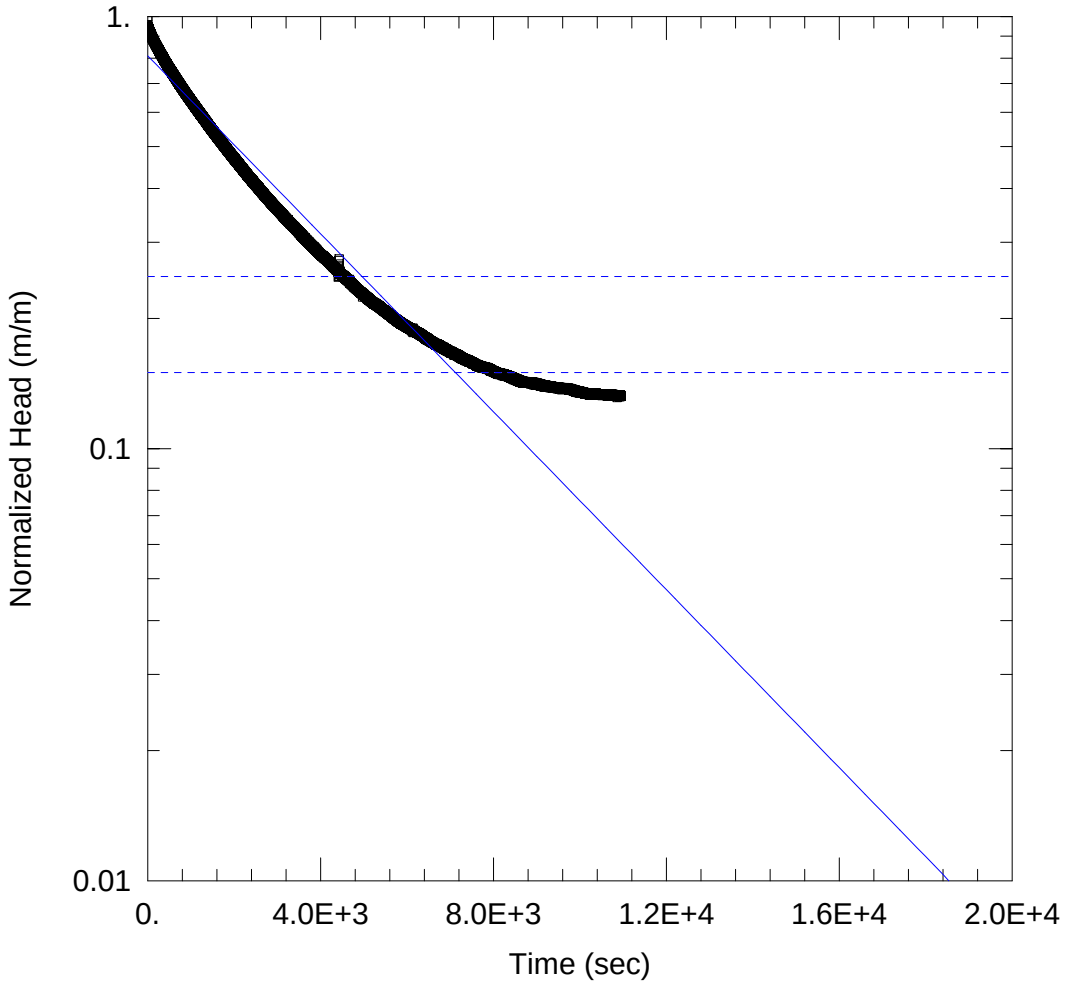
Saturated Thickness: 17.59 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID46-GWBH03)

Initial Displacement: 0.7375 m
Total Well Penetration Depth: 12.59 m
Casing Radius: 0.025 m
Static Water Column Height: 12.59 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.04068 m/day
y0 = 0.5979 m



FALLING HEAD 02

Data Set: \...\ID46-GWBH03_FH02_Hv.aqt
Date: 05/22/17 Time: 18:46:35

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH03
Test Date: 29/03/2017

AQUIFER DATA

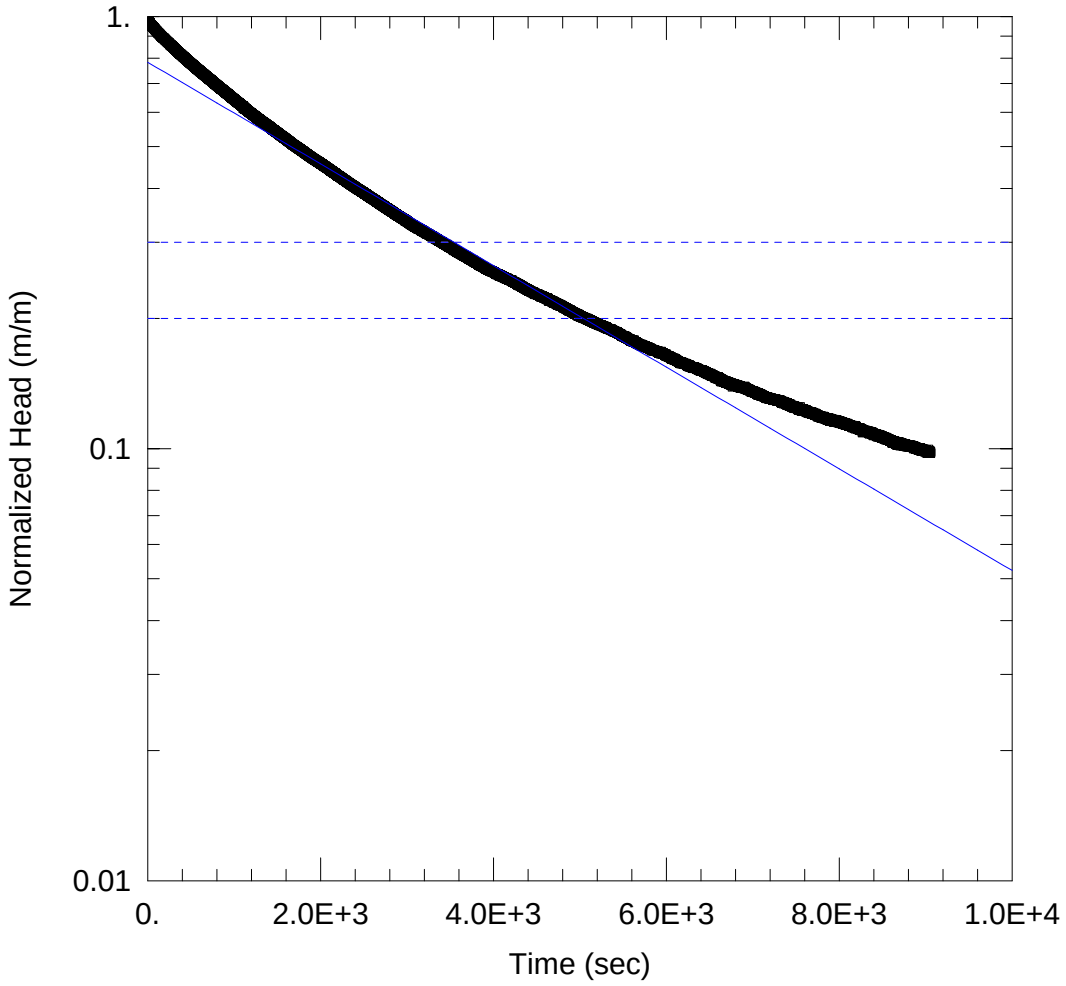
Saturated Thickness: 17.59 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID46-GWBH03)

Initial Displacement: 0.7375 m
Total Well Penetration Depth: 12.59 m
Casing Radius: 0.025 m
Static Water Column Height: 12.59 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.04936 m/day
y0 = 0.5978 m



RISING HEAD 01

Data Set: \...\ID46-GWBH03_RH01_BR.aqt
Date: 05/22/17 Time: 18:46:29

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH03
Test Date: 29/03/2017

AQUIFER DATA

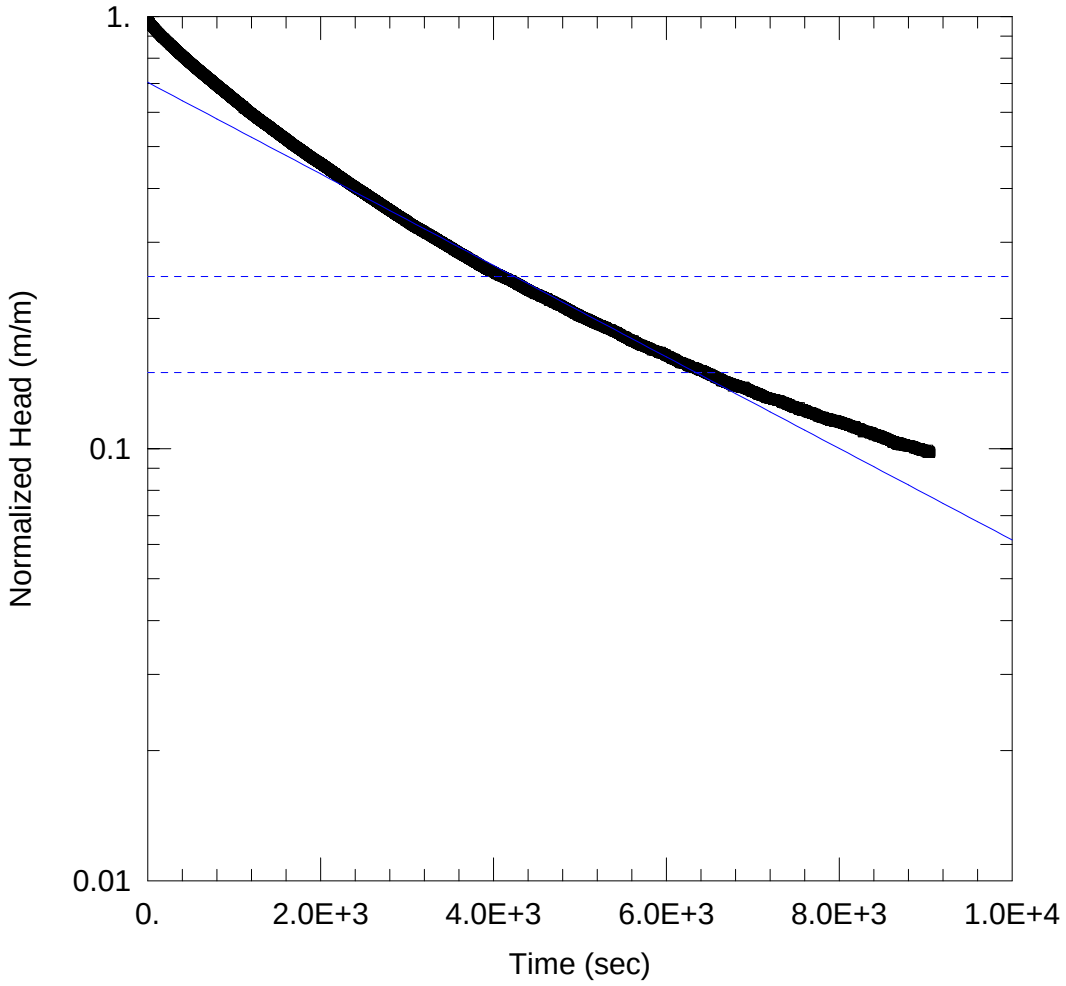
Saturated Thickness: 17.59 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID46-GWBH03)

Initial Displacement: 0.6996 m
Total Well Penetration Depth: 12.59 m
Casing Radius: 0.025 m
Static Water Column Height: 12.59 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.04645 m/day
y0 = 0.548 m



RISING HEAD 01

Data Set: \...\ID46-GWBH03_RH01_Hv.aqt
Date: 05/22/17 Time: 18:46:24

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH03
Test Date: 29/03/2017

AQUIFER DATA

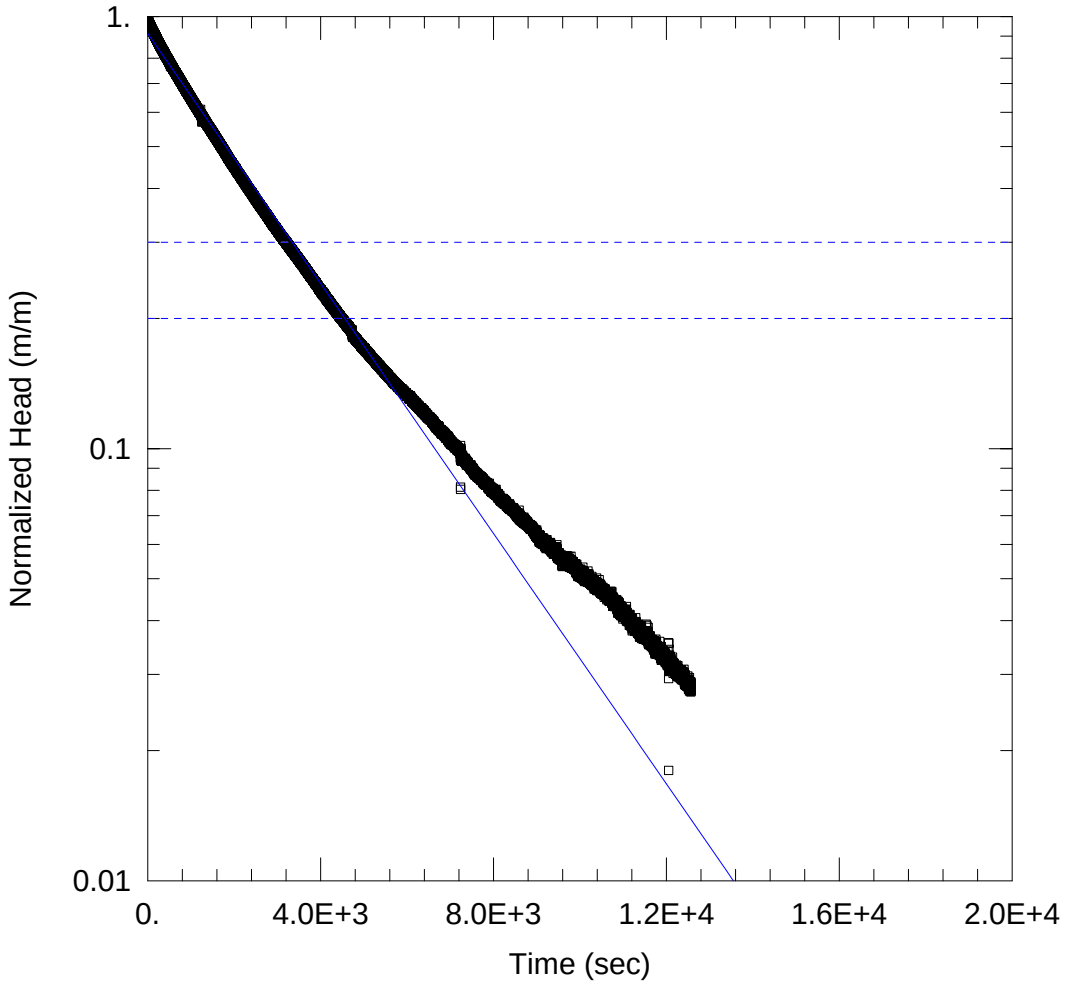
Saturated Thickness: 17.59 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID46-GWBH03)

Initial Displacement: 0.6996 m
Total Well Penetration Depth: 12.59 m
Casing Radius: 0.025 m
Static Water Column Height: 12.59 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.05077 m/day
y0 = 0.4924 m



RISING HEAD 02

Data Set: \...\ID46-GWBH03_RH02_BR.aqt
Date: 05/22/17 Time: 18:46:18

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH03
Test Date: 29/03/2017

AQUIFER DATA

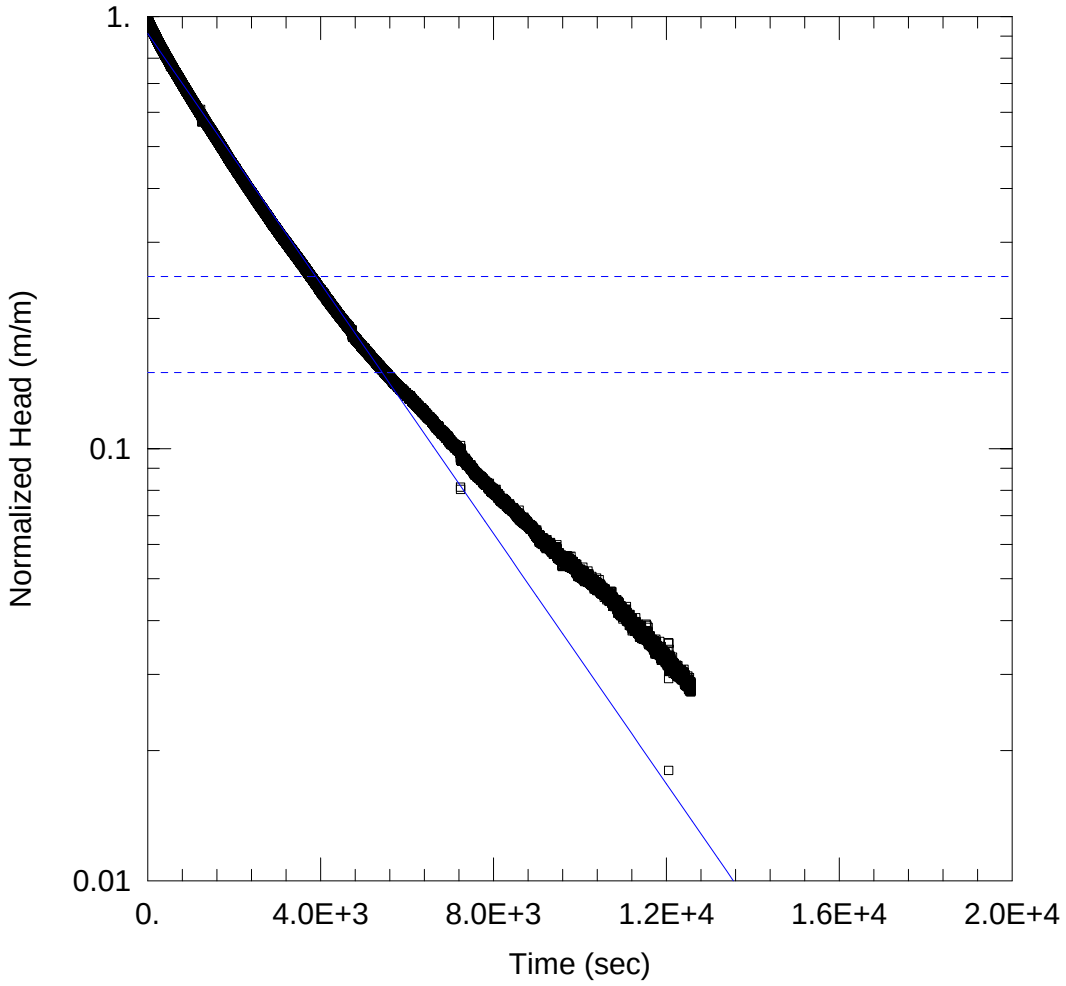
Saturated Thickness: 17.59 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID46-GWBH03)

Initial Displacement: 0.7304 m
Total Well Penetration Depth: 12.59 m
Casing Radius: 0.025 m
Static Water Column Height: 12.59 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.05715 m/day
y0 = 0.6671 m



RISING HEAD 02

Data Set: \...\ID46-GWBH03_RH02_Hv.aqt
Date: 05/22/17 Time: 18:46:12

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH03
Test Date: 29/03/2017

AQUIFER DATA

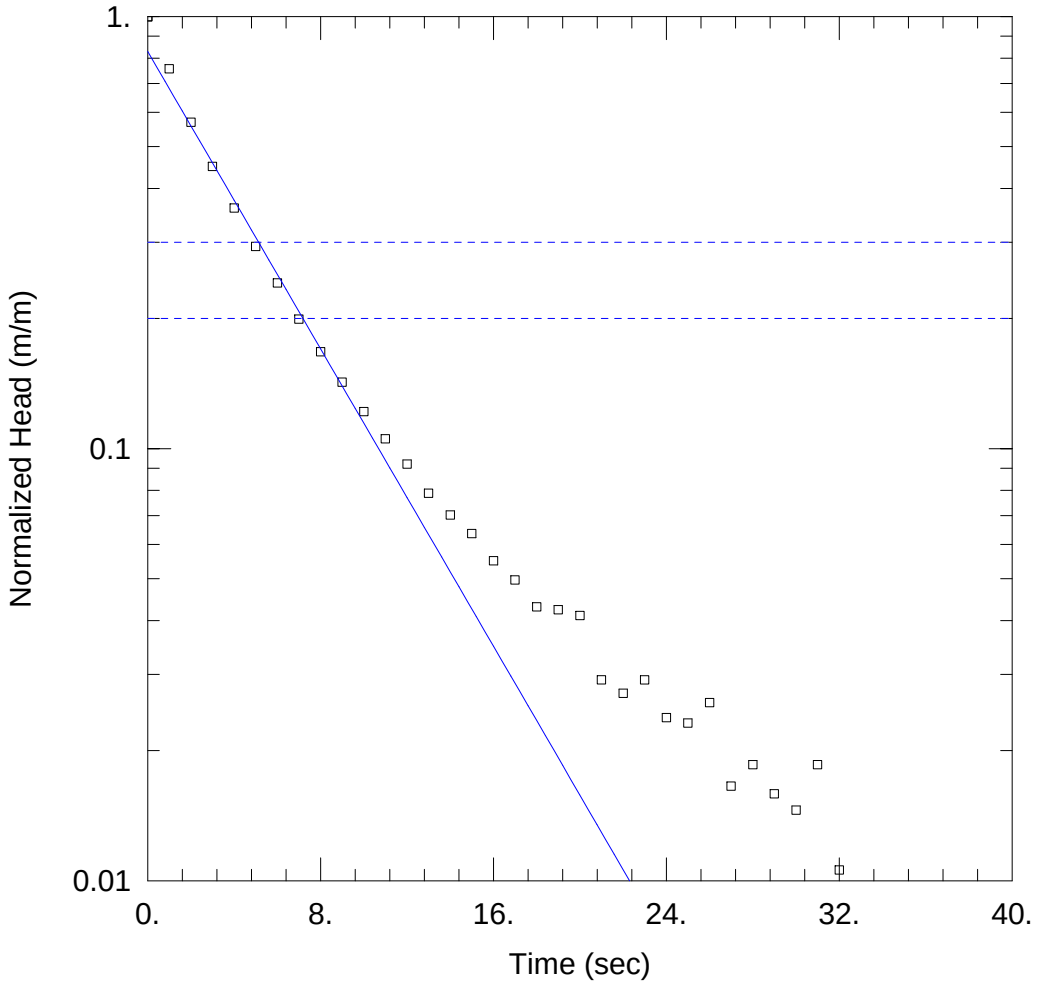
Saturated Thickness: 17.59 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID46-GWBH03)

Initial Displacement: 0.7304 m
Total Well Penetration Depth: 12.59 m
Casing Radius: 0.025 m
Static Water Column Height: 12.59 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.06937 m/day
y0 = 0.6671 m



FALLING-HEAD 01

Data Set: \...\ID46-GWBH04_FH01_BR.aqt
Date: 05/22/17 Time: 18:56:15

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH04
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 9.152 m Anisotropy Ratio (Kz/Kr): 0.2

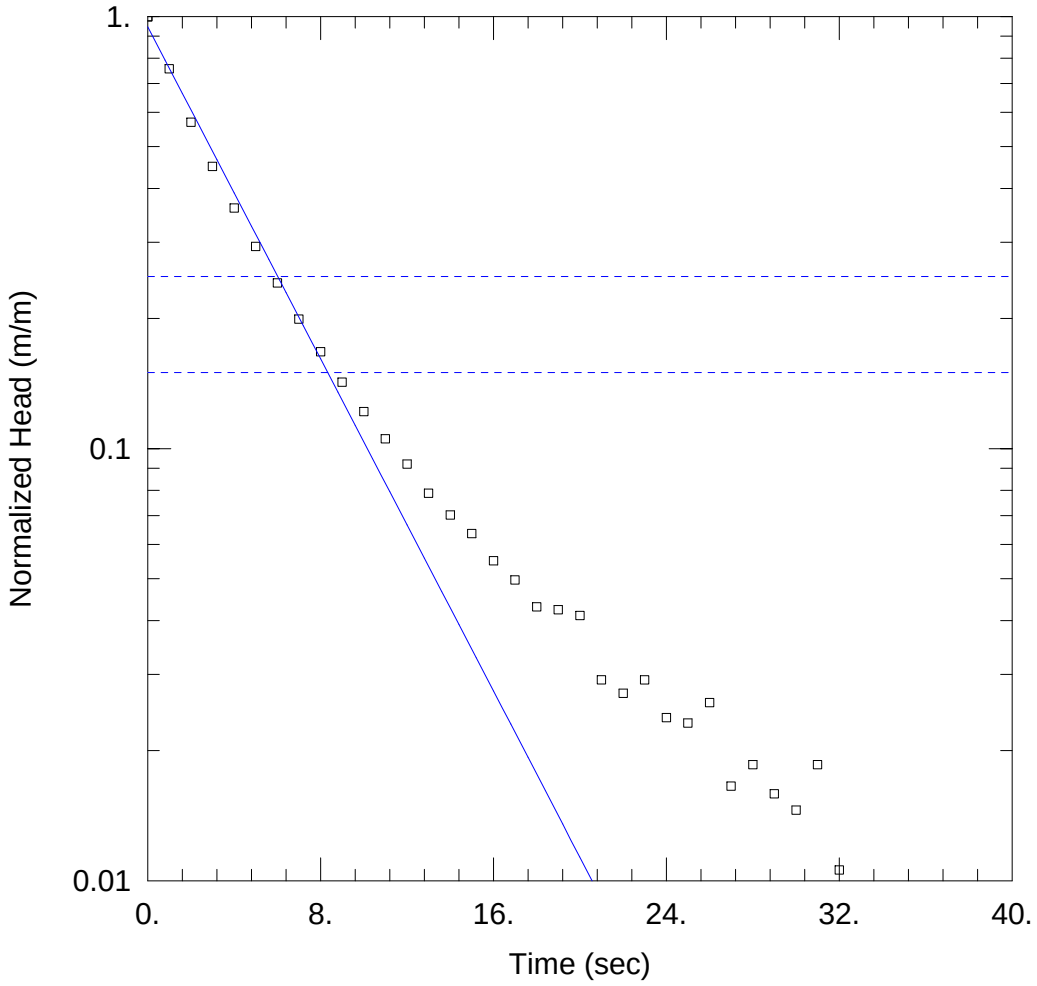
WELL DATA (Falling-Head 01)

Initial Displacement: 0.151 m
Total Well Penetration Depth: 4.152 m
Casing Radius: 0.025 m
Static Water Column Height: 4.152 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 29.15 m/day y0 = 0.1252 m



FALLING-HEAD 01

Data Set: \...\ID46-GWBH04_FH01_Hv.aqt
Date: 05/22/17 Time: 18:56:10

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH04
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 9.152 m Anisotropy Ratio (Kz/Kr): 0.2

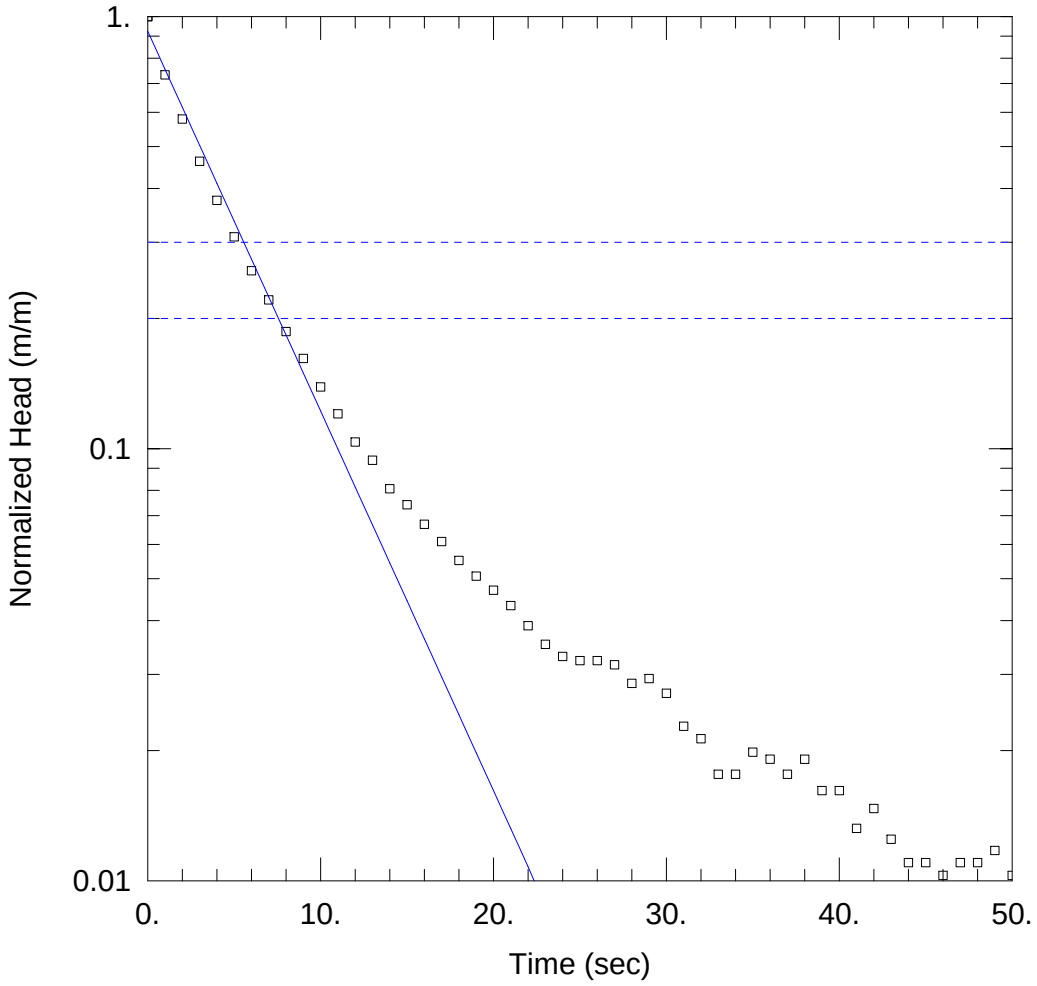
WELL DATA (Falling-Head 01)

Initial Displacement: 0.151 m
Total Well Penetration Depth: 4.152 m
Casing Radius: 0.025 m
Static Water Column Height: 4.152 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 46.04 m/day y0 = 0.1428 m



FALLING-HEAD 02

Data Set: \...\ID46-GWBH04_FH02_BR.aqt
Date: 05/22/17 Time: 18:56:06

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH04
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 9.152 m Anisotropy Ratio (Kz/Kr): 0.2

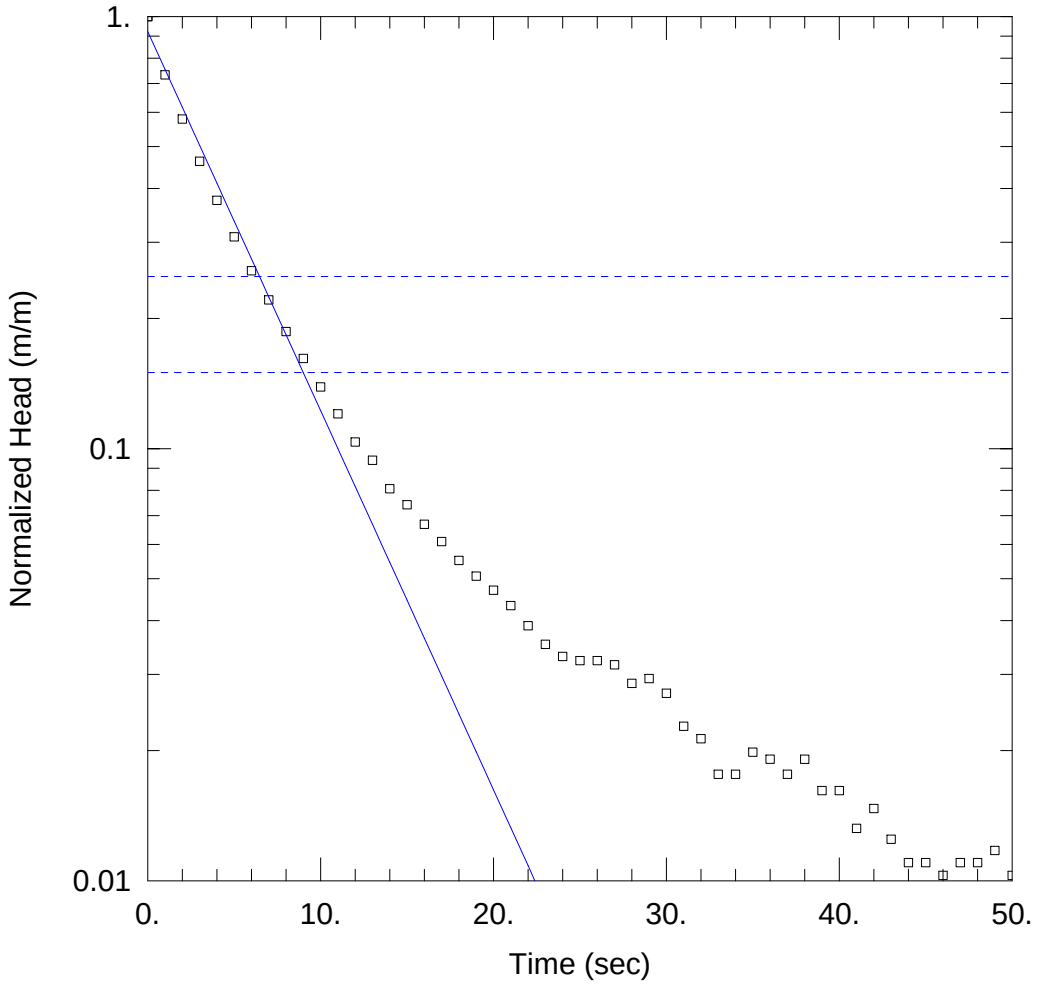
WELL DATA (Falling-Head 02)

Initial Displacement: 0.1362 m
Total Well Penetration Depth: 4.152 m
Casing Radius: 0.025 m
Static Water Column Height: 4.152 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 29.78 m/day y0 = 0.1258 m



FALLING-HEAD 02

Data Set: \...\ID46-GWBH04_FH02_Hv.aqt
Date: 05/22/17 Time: 18:56:02

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH04
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 9.152 m Anisotropy Ratio (Kz/Kr): 0.2

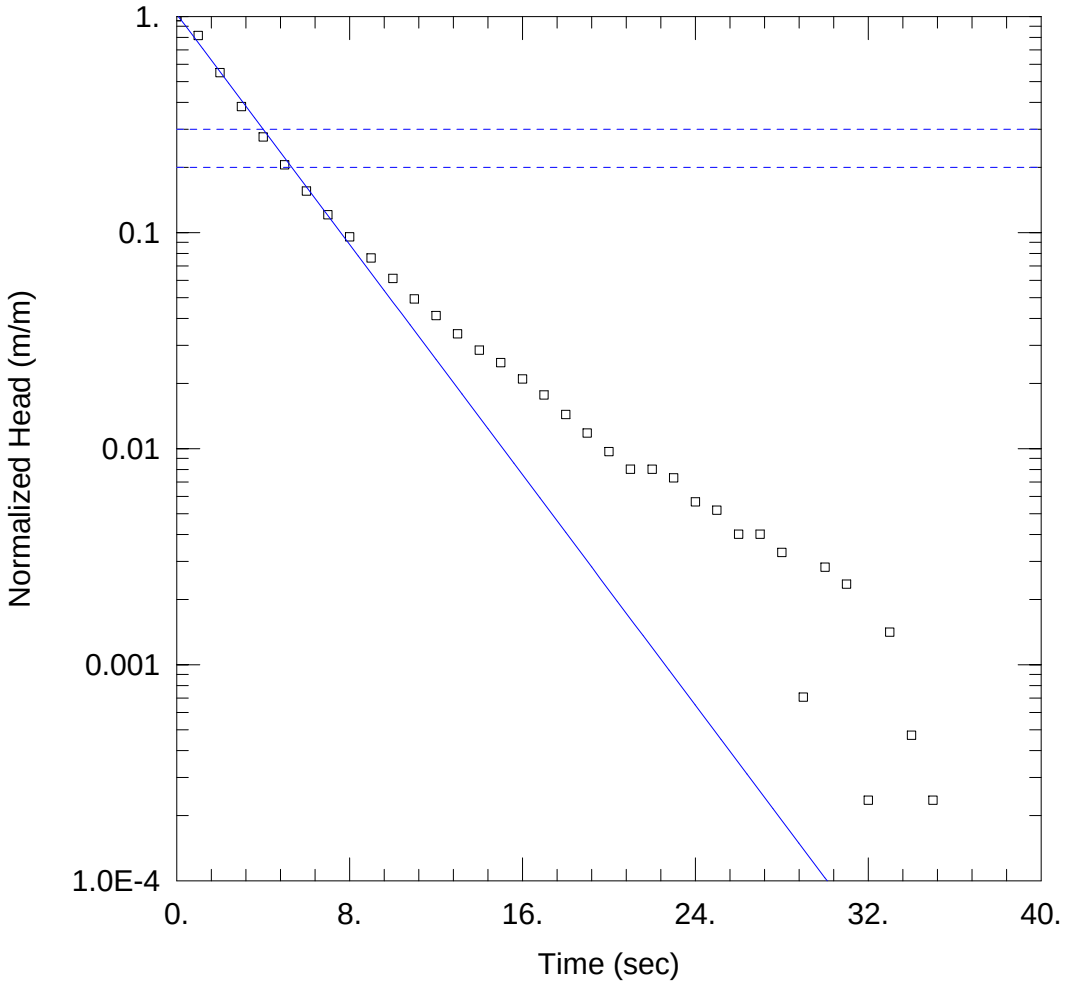
WELL DATA (Falling-Head 02)

Initial Displacement: 0.1362 m
Total Well Penetration Depth: 4.152 m
Casing Radius: 0.025 m
Static Water Column Height: 4.152 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 42.06 m/day y0 = 0.1257 m



RISING-HEAD 01

Data Set: \...\ID46-GWBH04_RH01_BR.aqt
Date: 05/22/17 Time: 18:55:58

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH04
Test Date: 07.03.2017

AQUIFER DATA

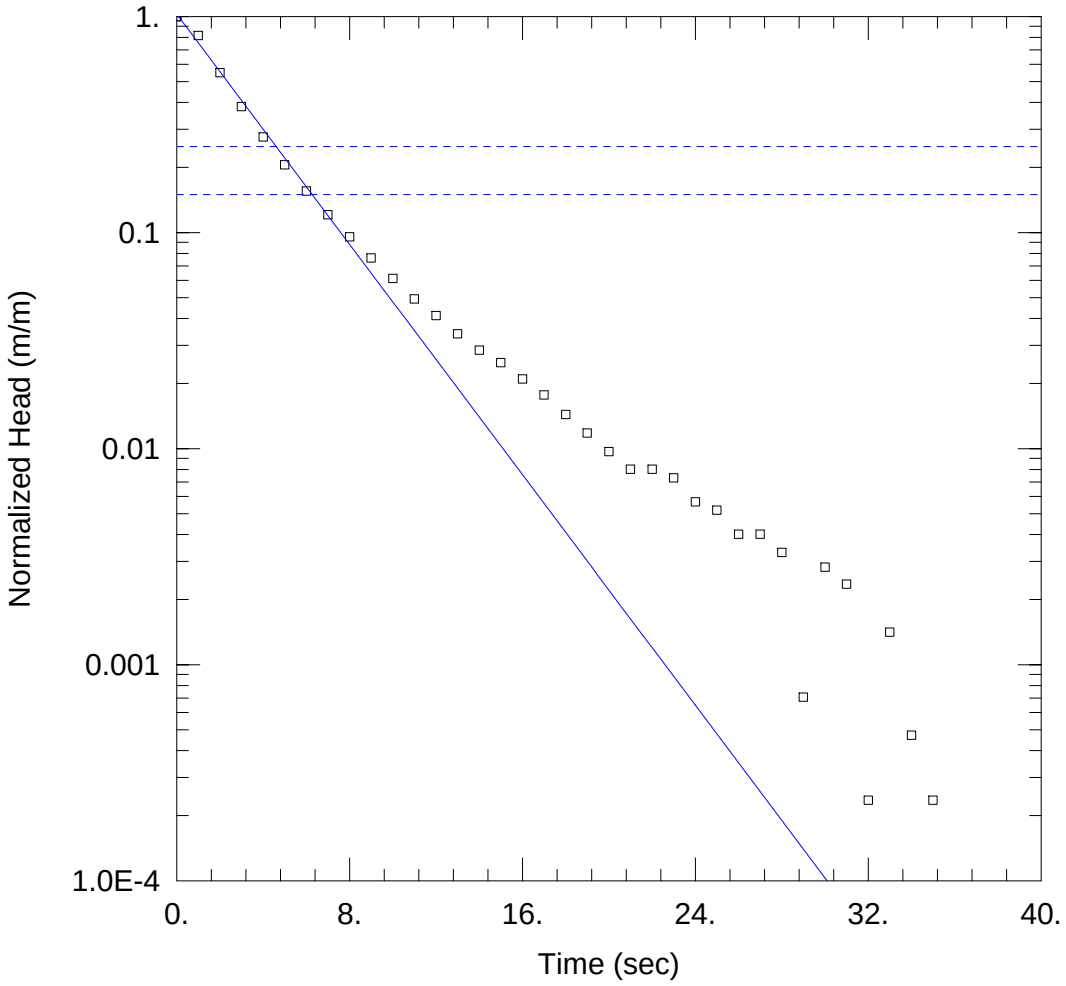
Saturated Thickness: 9.152 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (Rising-Head 01)

Initial Displacement: 0.424 m
Total Well Penetration Depth: 4.152 m
Casing Radius: 0.025 m
Static Water Column Height: 4.152 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 45.14 m/day
y0 = 0.4344 m



RISING-HEAD 01

Data Set: \...\ID46-GWBH04_RH01_Hv.aqt
Date: 05/22/17 Time: 18:55:49

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH04
Test Date: 07.03.2017

AQUIFER DATA

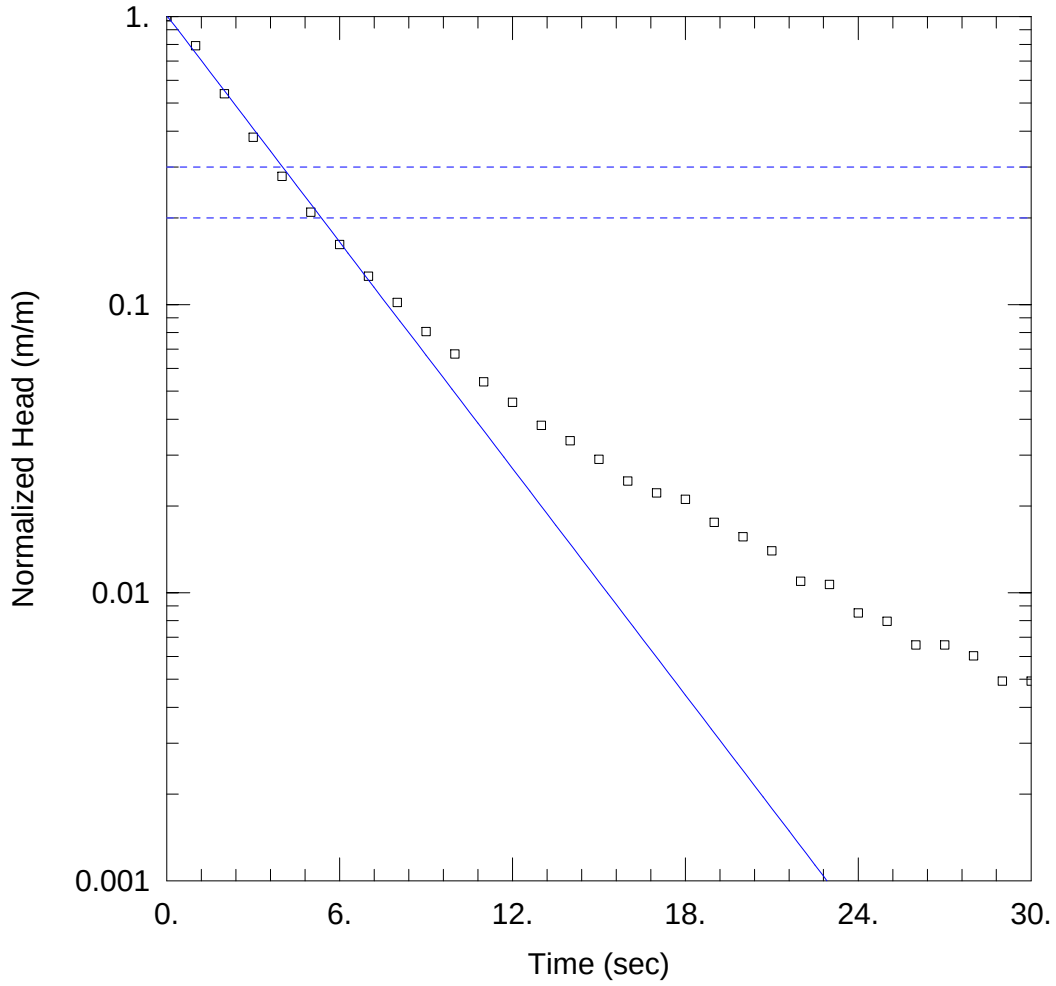
Saturated Thickness: 9.152 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (Rising-Head 01)

Initial Displacement: 0.424 m
Total Well Penetration Depth: 4.152 m
Casing Radius: 0.025 m
Static Water Column Height: 4.152 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 63.86 m/day
y0 = 0.4344 m



RISING-HEAD 02

Data Set: \...\ID46-GWBH04_RH02_BR.aqt
Date: 05/22/17 Time: 18:55:53

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH04
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 9.152 m Anisotropy Ratio (Kz/Kr): 0.2

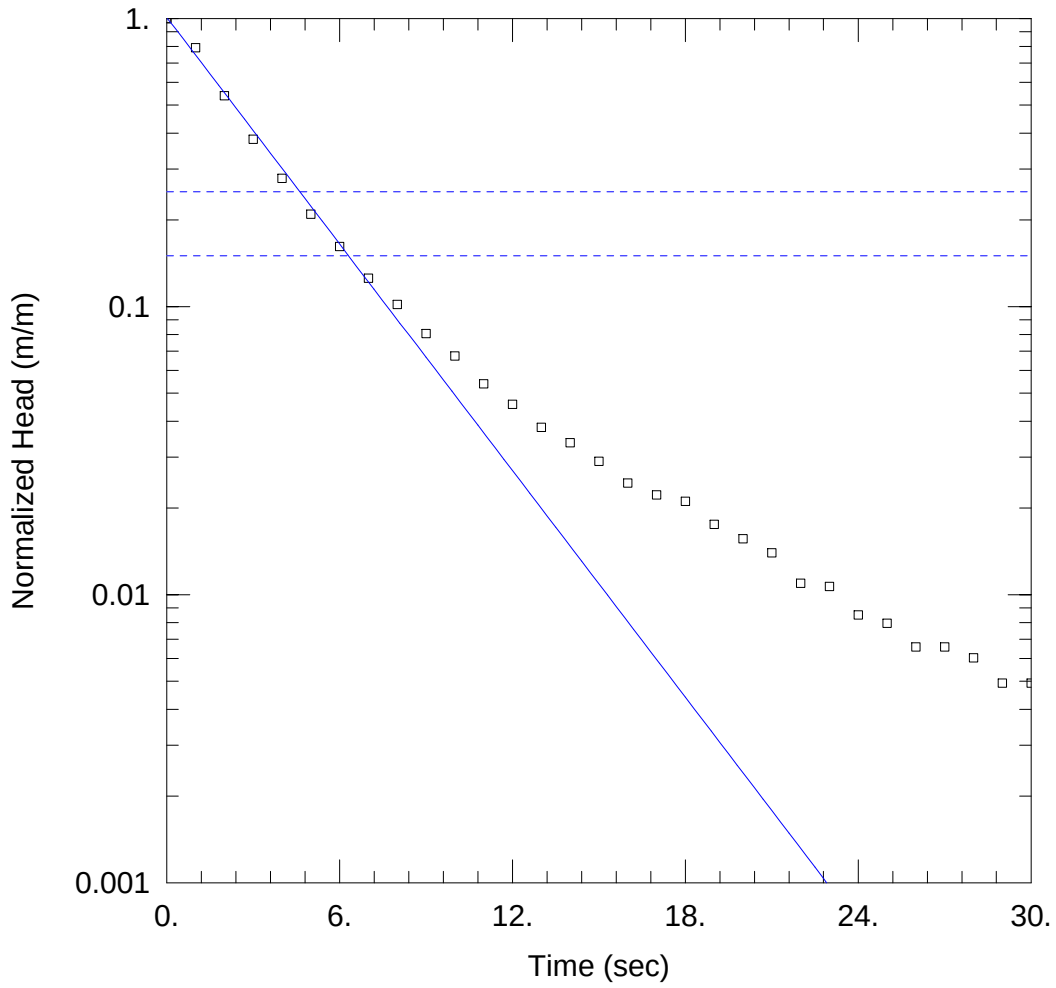
WELL DATA (Rising-Head 02)

Initial Displacement: 0.365 m
Total Well Penetration Depth: 4.152 m
Casing Radius: 0.025 m
Static Water Column Height: 4.152 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 44.43 m/day y0 = 0.3686 m



RISING-HEAD 02

Data Set: \...\ID46-GWBH04_RH02_Hv.aqt
Date: 05/22/17 Time: 18:55:43

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH04
Test Date: 07.03.2017

AQUIFER DATA

Saturated Thickness: 9.152 m Anisotropy Ratio (Kz/Kr): 0.2

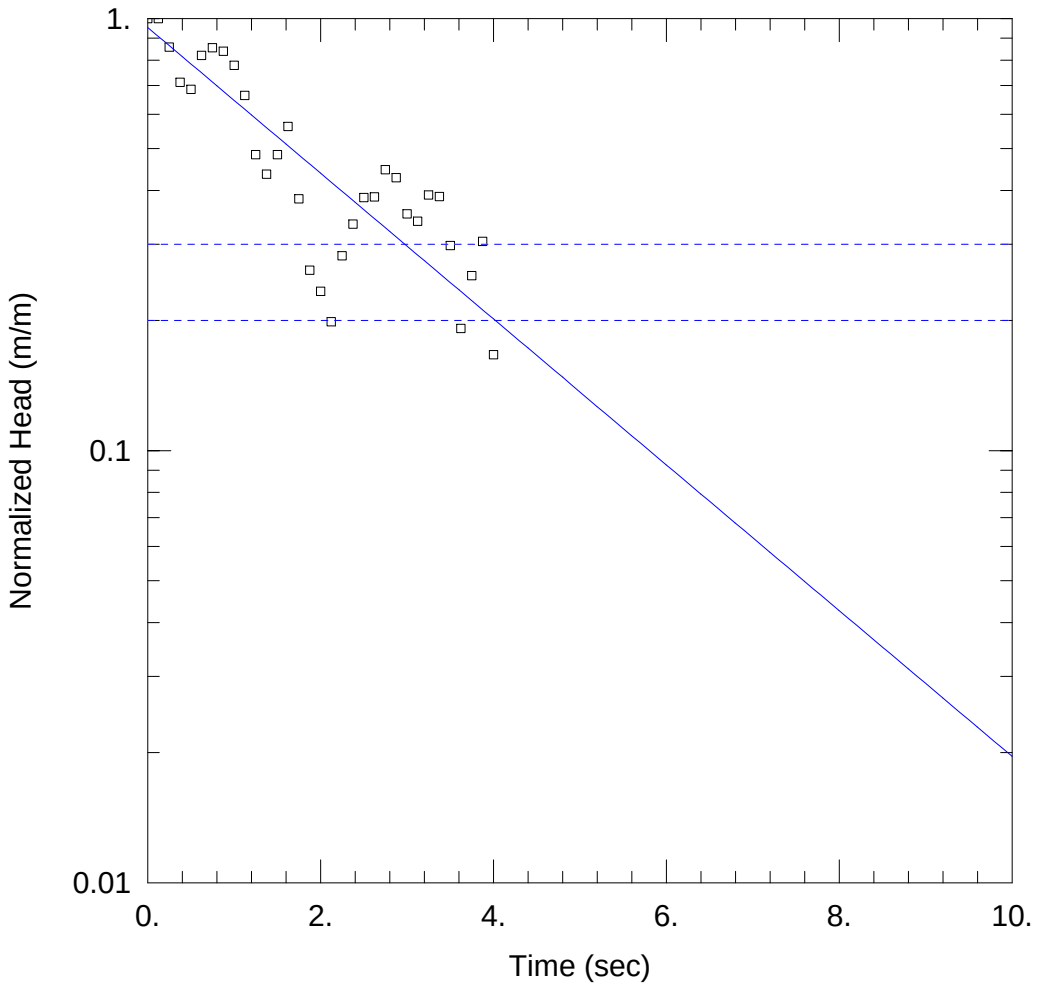
WELL DATA (Rising-Head 02)

Initial Displacement: 0.365 m
Total Well Penetration Depth: 4.152 m
Casing Radius: 0.025 m
Static Water Column Height: 4.152 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 62.87 m/day y0 = 0.3686 m



FALLING-HEAD 01

Data Set: \...\ID46-GWBH05_FH01_BR.aqt
Date: 05/22/17 Time: 19:03:19

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH05
Test Date: 11/4/17

AQUIFER DATA

Saturated Thickness: 9.524 m Anisotropy Ratio (Kz/Kr): 0.2

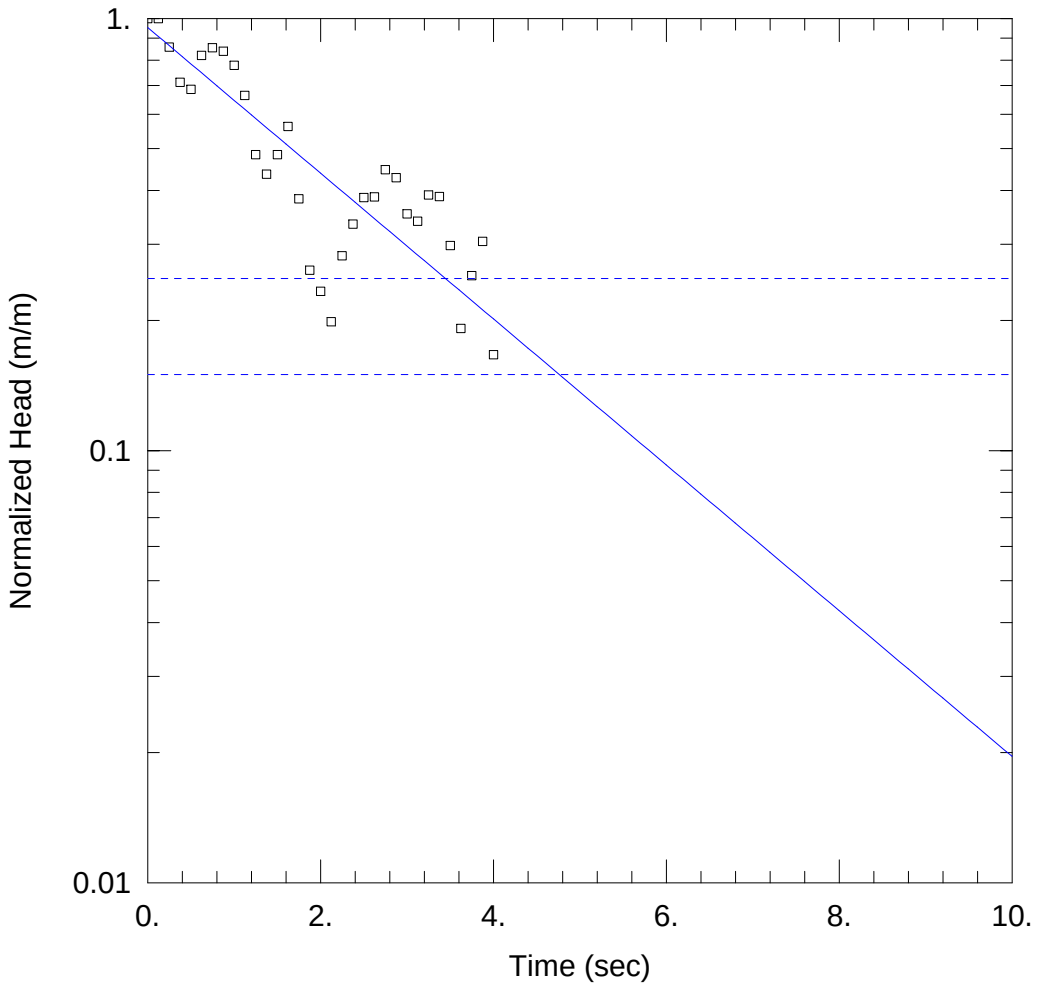
WELL DATA (ID46-GWBH05)

Initial Displacement: 0.2754 m
Total Well Penetration Depth: 4.524 m
Casing Radius: 0.025 m
Static Water Column Height: 4.524 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 57.92 m/day y0 = 0.2624 m



FALLING-HEAD 01

Data Set: \...\ID46-GWBH05_FH01_Hv.aqt
Date: 05/22/17 Time: 19:03:15

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH05
Test Date: 11/4/17

AQUIFER DATA

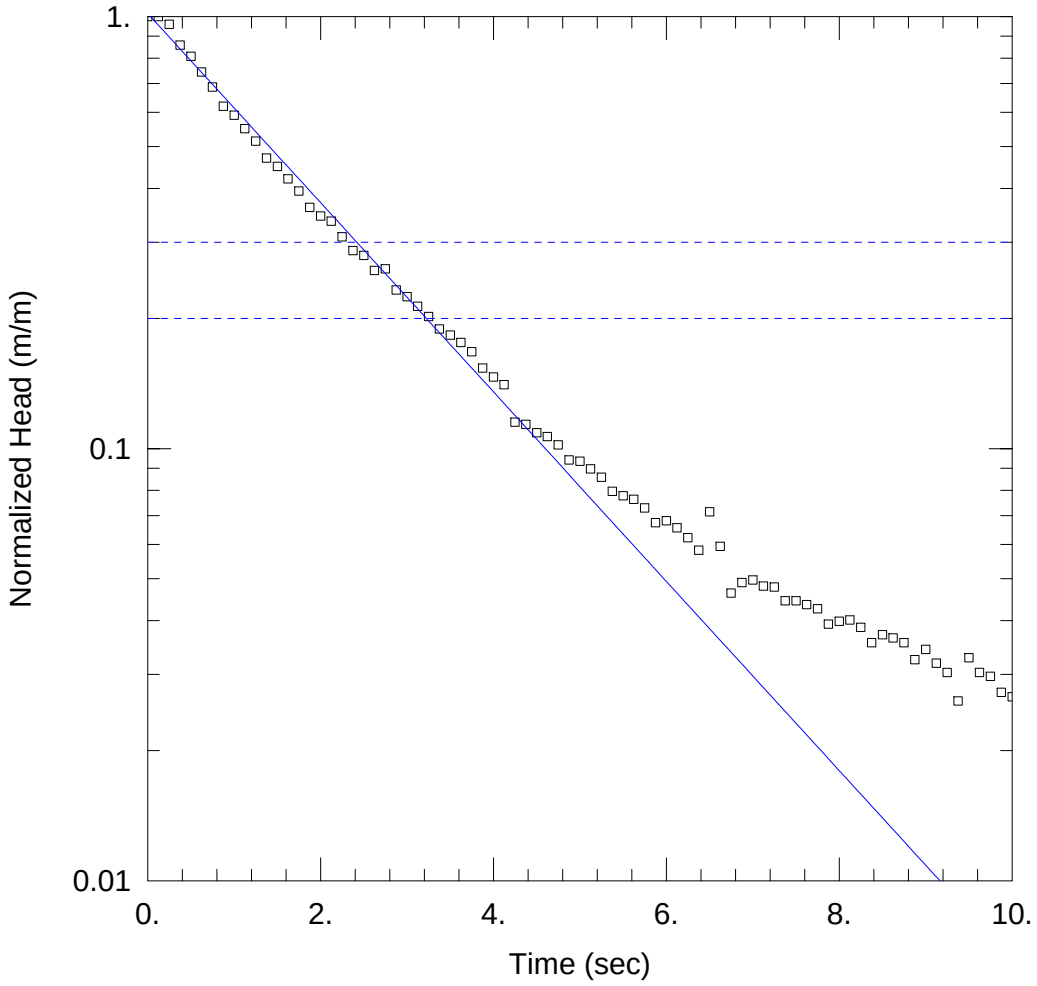
Saturated Thickness: 9.524 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID46-GWBH05)

Initial Displacement: 0.2754 m
Total Well Penetration Depth: 4.524 m
Casing Radius: 0.025 m
Static Water Column Height: 4.524 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 80.85 m/day
y0 = 0.2624 m



RISING-HEAD 01

Data Set: \...\ID46-GWBH05_RH01_BR.aqt
Date: 05/22/17 Time: 19:03:12

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH05
Test Date: 11/4/17

AQUIFER DATA

Saturated Thickness: 9.524 m Anisotropy Ratio (Kz/Kr): 0.2

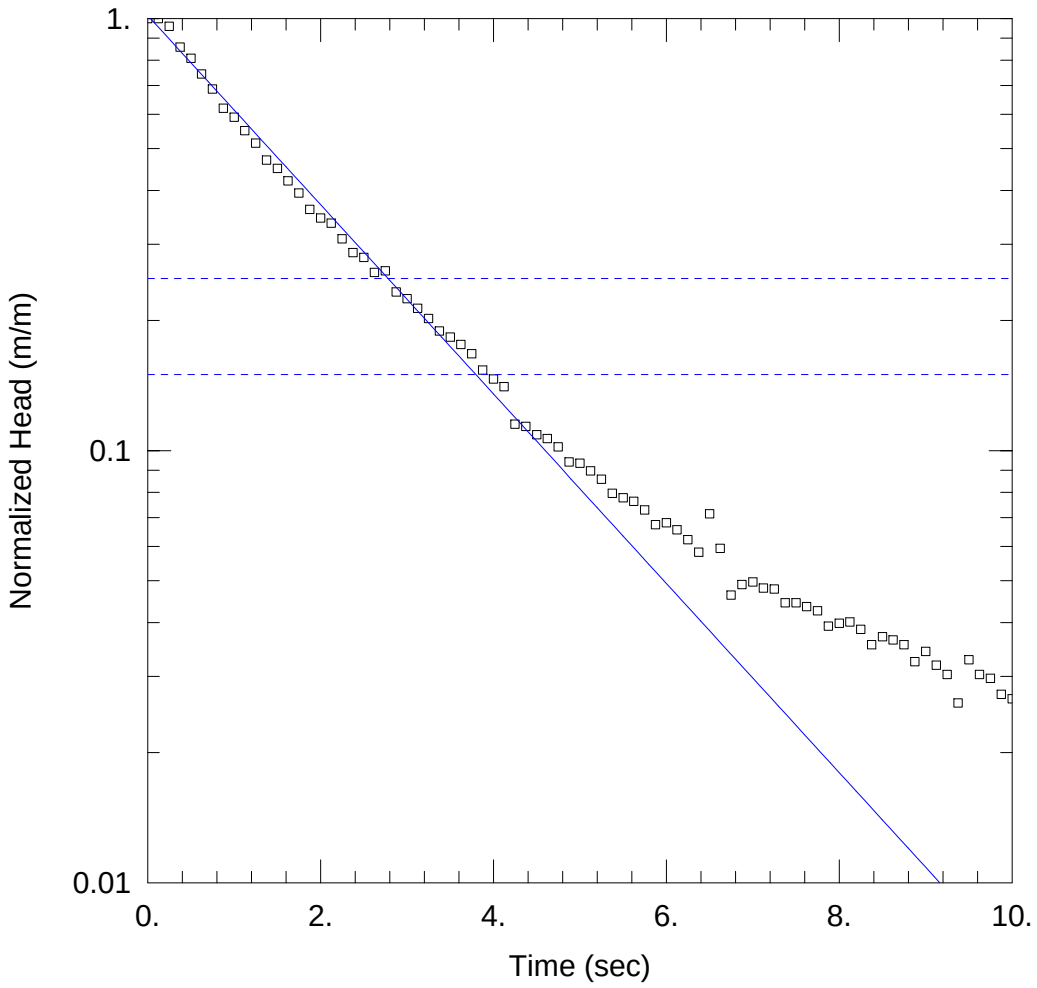
WELL DATA (ID46-GWBH05)

Initial Displacement: 0.3264 m
Total Well Penetration Depth: 4.524 m
Casing Radius: 0.025 m
Static Water Column Height: 4.524 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 75.2 m/day y0 = 0.3316 m



RISING-HEAD 01

Data Set: \...\ID46-GWBH05_RH01_Hv.aqt
Date: 05/22/17 Time: 19:03:08

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH05
Test Date: 11/4/17

AQUIFER DATA

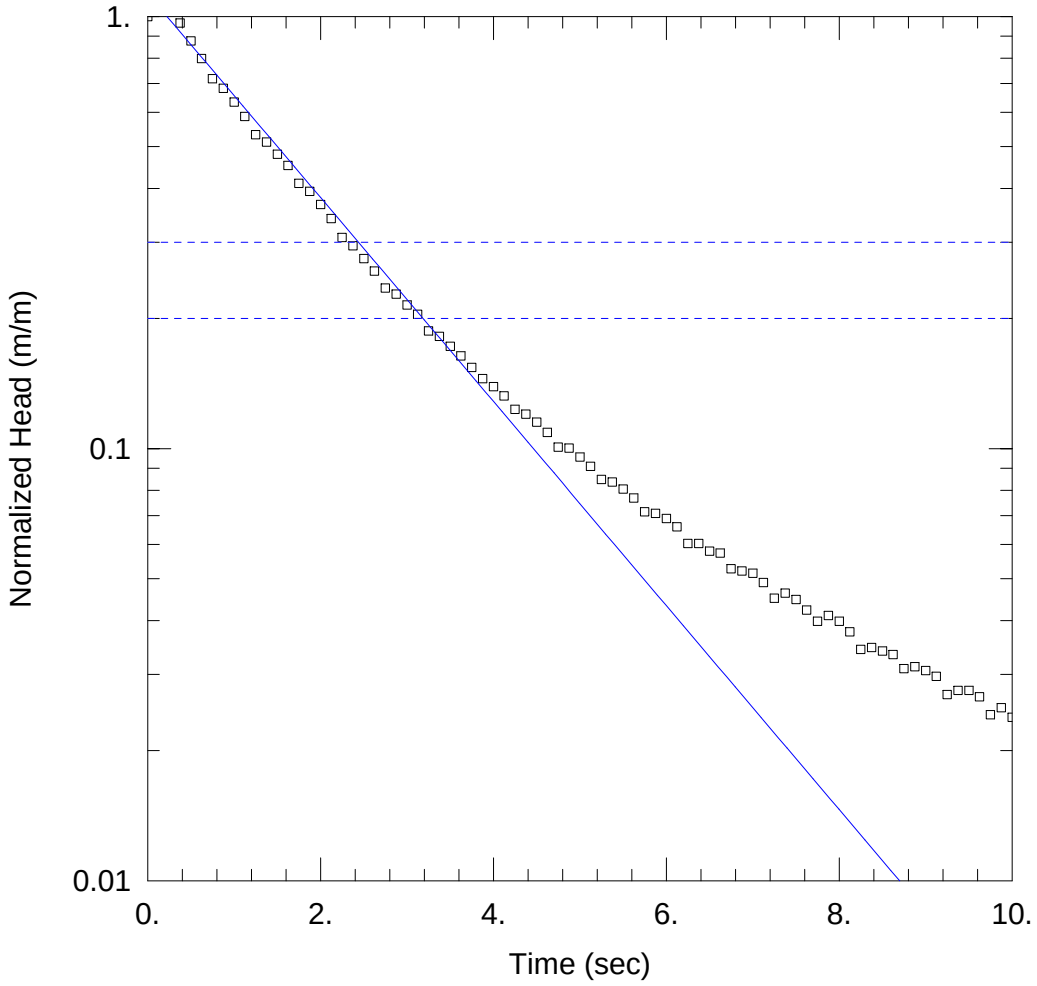
Saturated Thickness: 9.524 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID46-GWBH05)

Initial Displacement: 0.3264 m
Total Well Penetration Depth: 4.524 m
Casing Radius: 0.025 m
Static Water Column Height: 4.524 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 105. m/day
y0 = 0.3316 m



RISING-HEAD 02

Data Set: \...\ID46-GWBH05_RH02_BR.aqt
Date: 05/22/17 Time: 19:03:04

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH05
Test Date: 11/4/17

AQUIFER DATA

Saturated Thickness: 9.524 m Anisotropy Ratio (Kz/Kr): 0.2

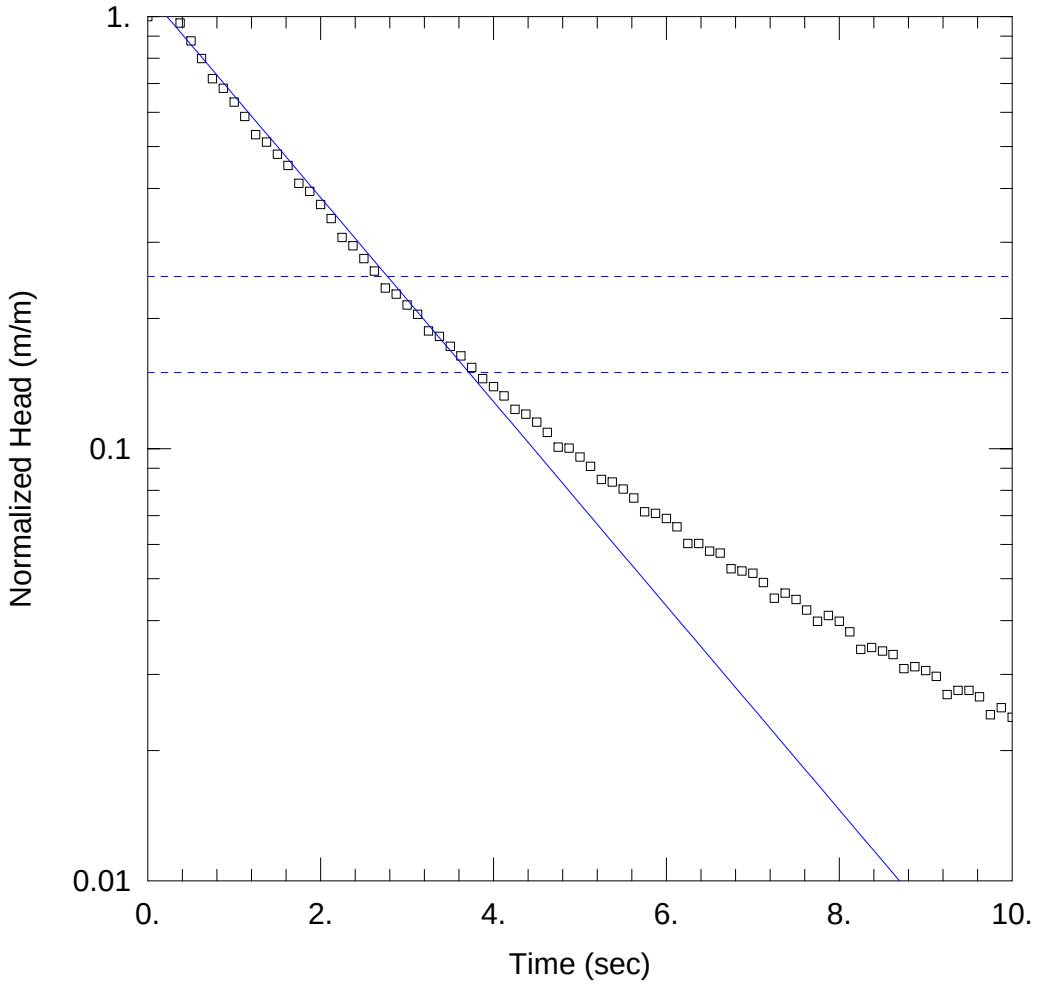
WELL DATA (ID46-GWBH05)

Initial Displacement: 0.3264 m
Total Well Penetration Depth: 4.524 m
Casing Radius: 0.025 m
Static Water Column Height: 4.524 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 81.04 m/day y0 = 0.3684 m



RISING-HEAD 02

Data Set: \...\ID46-GWBH05_RH02_Hv.aqt
Date: 05/22/17 Time: 19:03:00

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH05
Test Date: 11/4/17

AQUIFER DATA

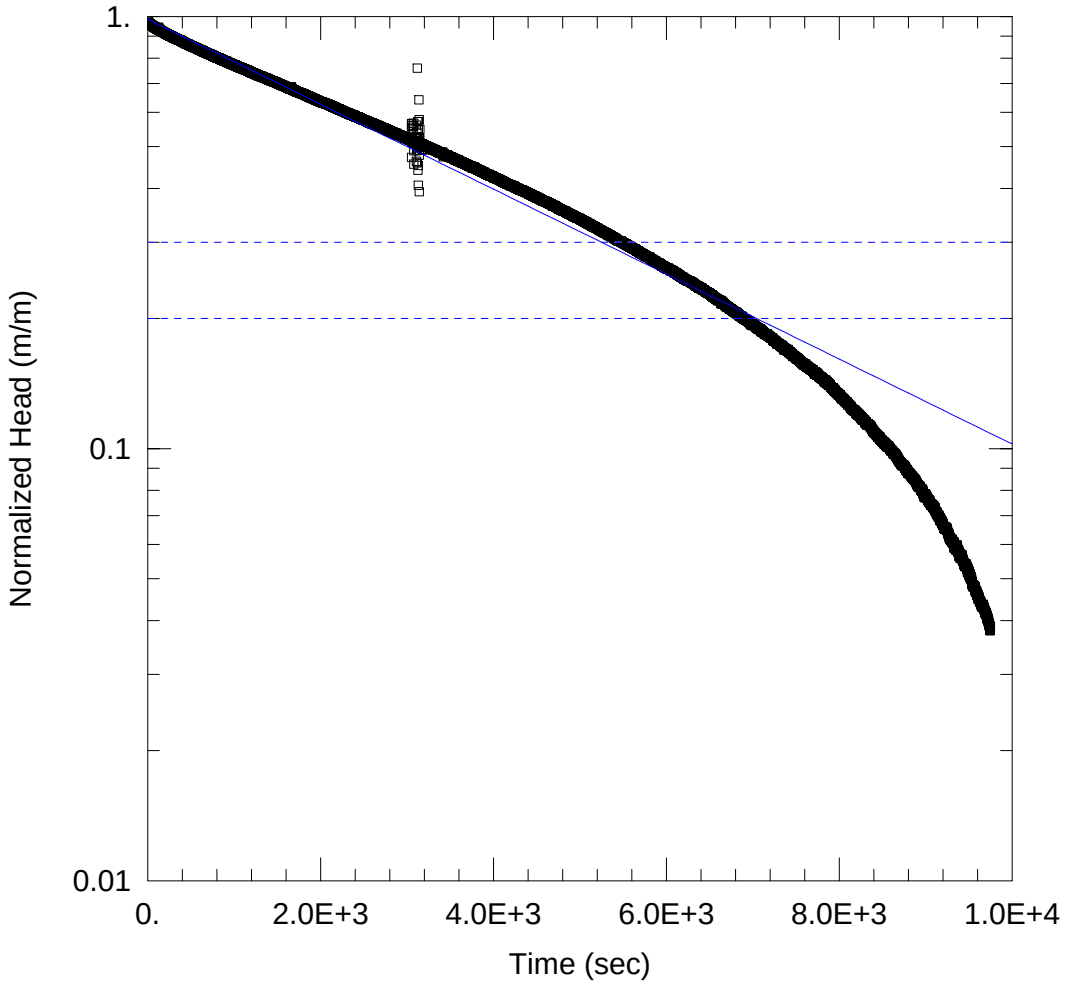
Saturated Thickness: 9.524 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID46-GWBH05)

Initial Displacement: 0.3264 m
Total Well Penetration Depth: 4.524 m
Casing Radius: 0.025 m
Static Water Column Height: 4.524 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 113.1 m/day
y0 = 0.3685 m



FALLING-HEAD 01

Data Set: \...\ID46-GWBH06_FH01_BR.aqt
Date: 05/22/17 Time: 19:06:00

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH06
Test Date: 07/03/2017

AQUIFER DATA

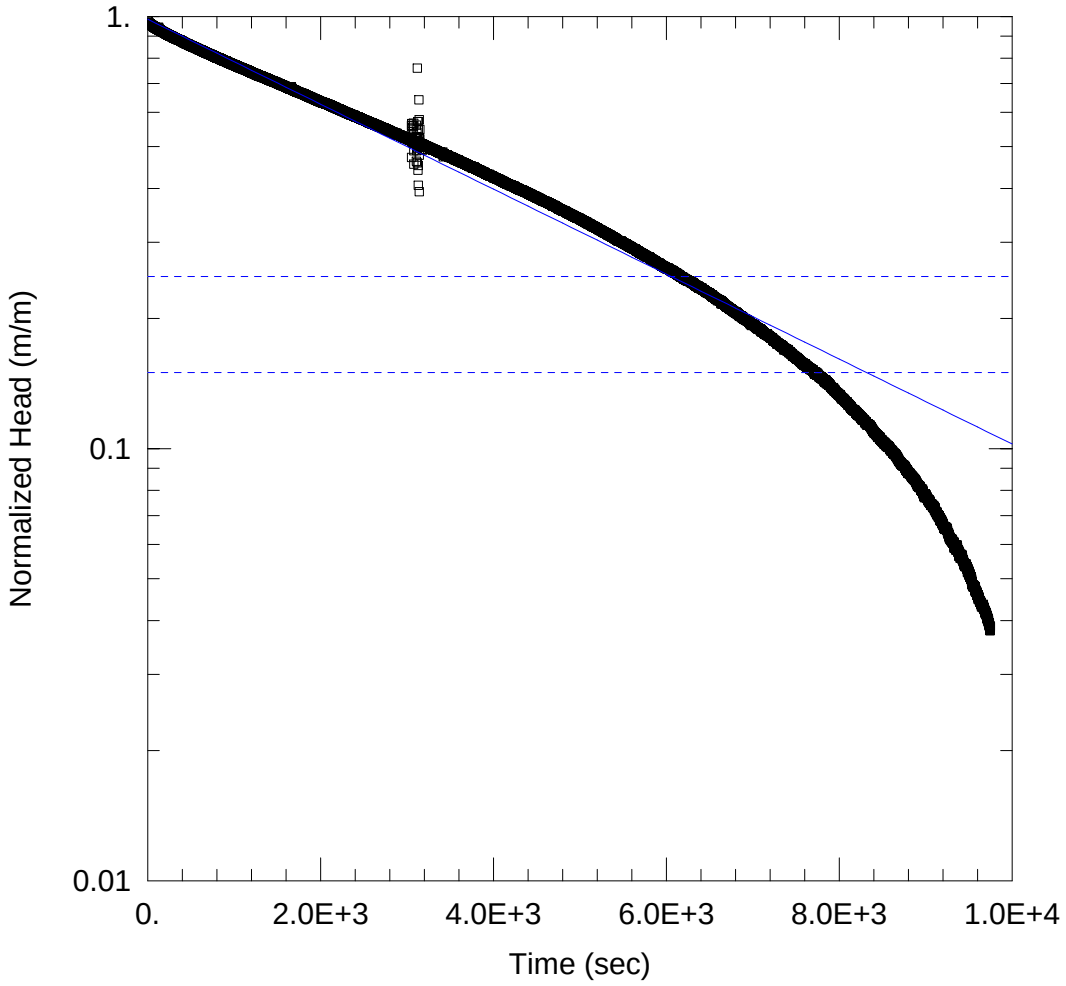
Saturated Thickness: 23.67 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID46-GWBH06)

Initial Displacement: 0.7366 m
Total Well Penetration Depth: 18.67 m
Casing Radius: 0.025 m
Static Water Column Height: 18.67 m
Screen Length: 3.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.03565 m/day
y0 = 0.7257 m



FALLING-HEAD 01

Data Set: \...\ID46-GWBH06_FH01_Hv.aqt
Date: 05/22/17 Time: 19:05:56

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH06
Test Date: 07/03/2017

AQUIFER DATA

Saturated Thickness: 23.67 m Anisotropy Ratio (Kz/Kr): 0.2

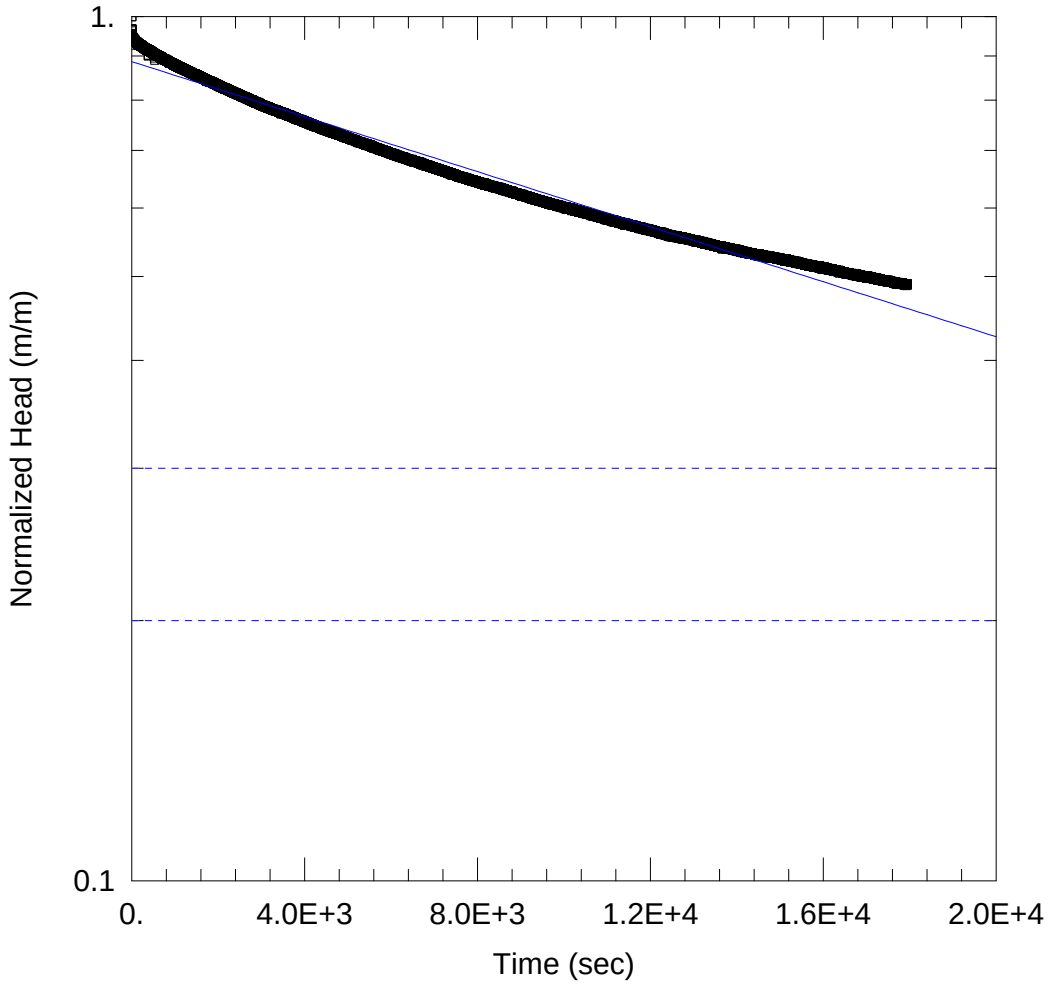
WELL DATA (ID46-GWBH06)

Initial Displacement: 0.7366 m
Total Well Penetration Depth: 18.67 m
Casing Radius: 0.025 m
Static Water Column Height: 18.67 m
Screen Length: 3.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.04188 m/day y0 = 0.7257 m



RISING-HEAD 01

Data Set: \...\ID46-GWBH06_RH01_BR.aqt
Date: 05/22/17 Time: 19:05:51

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH06
Test Date: 07/03/2017

AQUIFER DATA

Saturated Thickness: 23.67 m Anisotropy Ratio (Kz/Kr): 0.2

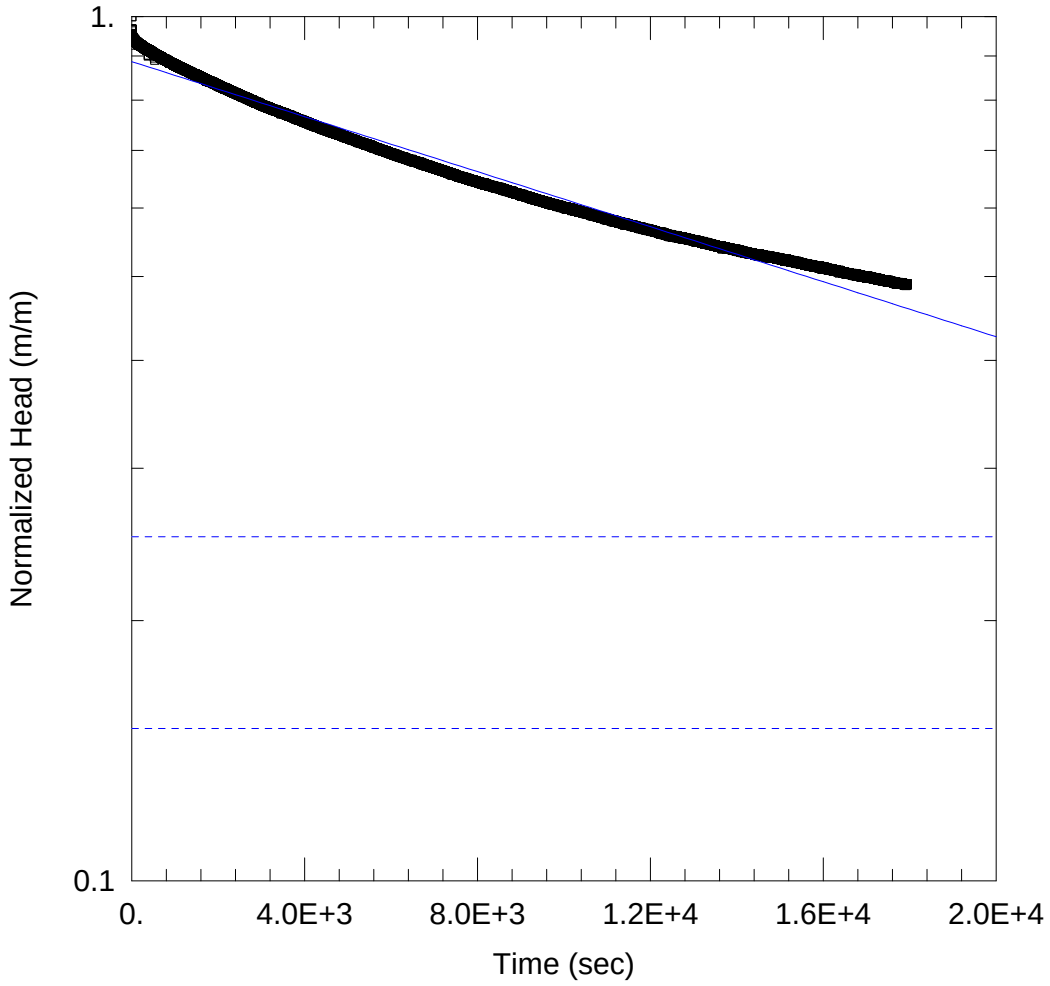
WELL DATA (ID46-GWBH06)

Initial Displacement: 0.7724 m
Total Well Penetration Depth: 18.67 m
Casing Radius: 0.025 m
Static Water Column Height: 18.67 m
Screen Length: 3.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.005773 m/day
y0 = 0.6848 m



RISING-HEAD 01

Data Set: \...\ID46-GWBH06_RH01_Hv.aqt
Date: 05/22/17 Time: 19:05:43

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: ID46-GWBH06
Test Date: 07/03/2017

AQUIFER DATA

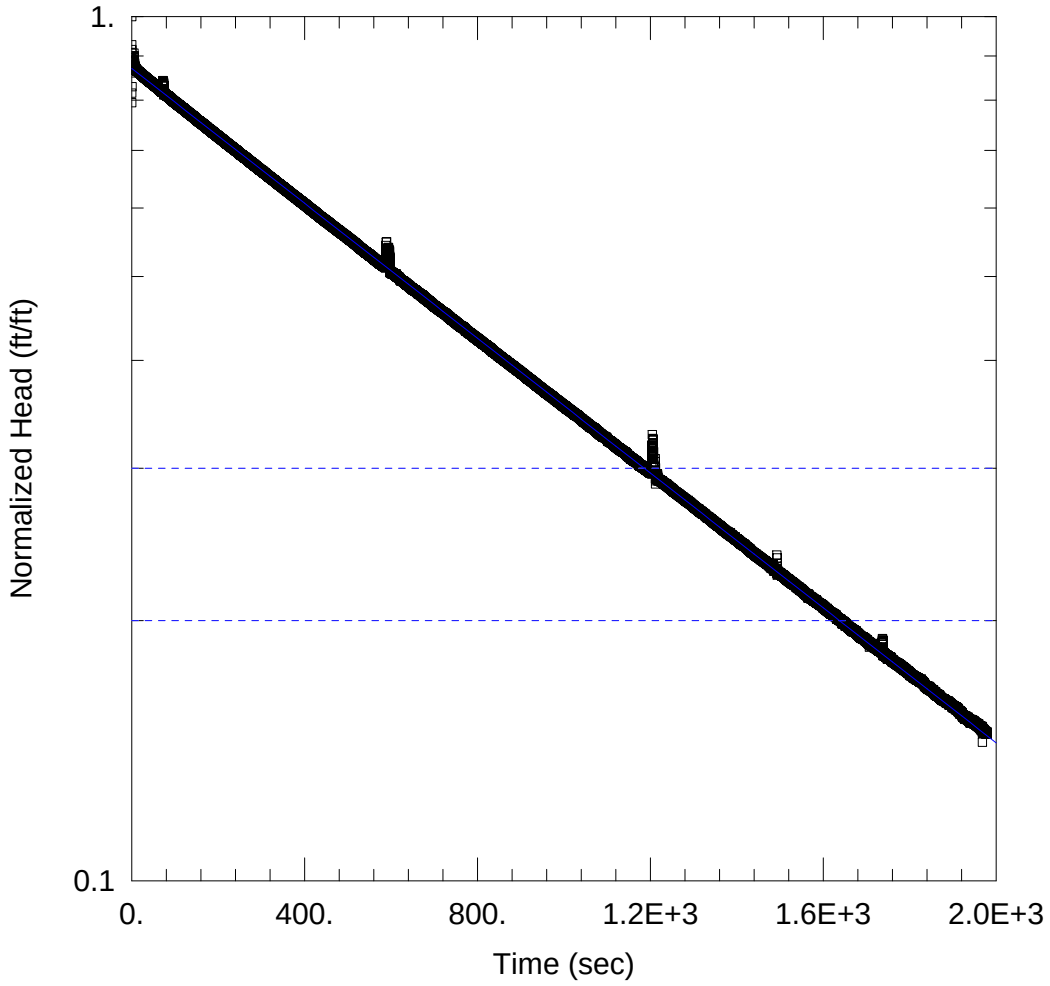
Saturated Thickness: 23.67 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (ID46-GWBH06)

Initial Displacement: 0.7724 m
Total Well Penetration Depth: 18.67 m
Casing Radius: 0.025 m
Static Water Column Height: 18.67 m
Screen Length: 3.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.006781 m/day
y0 = 0.6848 m



FALLING HEAD 01

Data Set: \...\SS-GWBH02_FH01_BR.aqt
Date: 05/22/17 Time: 19:10:00

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH02
Test Date: 21/04/2017

AQUIFER DATA

Saturated Thickness: 16.11 ft Anisotropy Ratio (Kz/Kr): 0.2

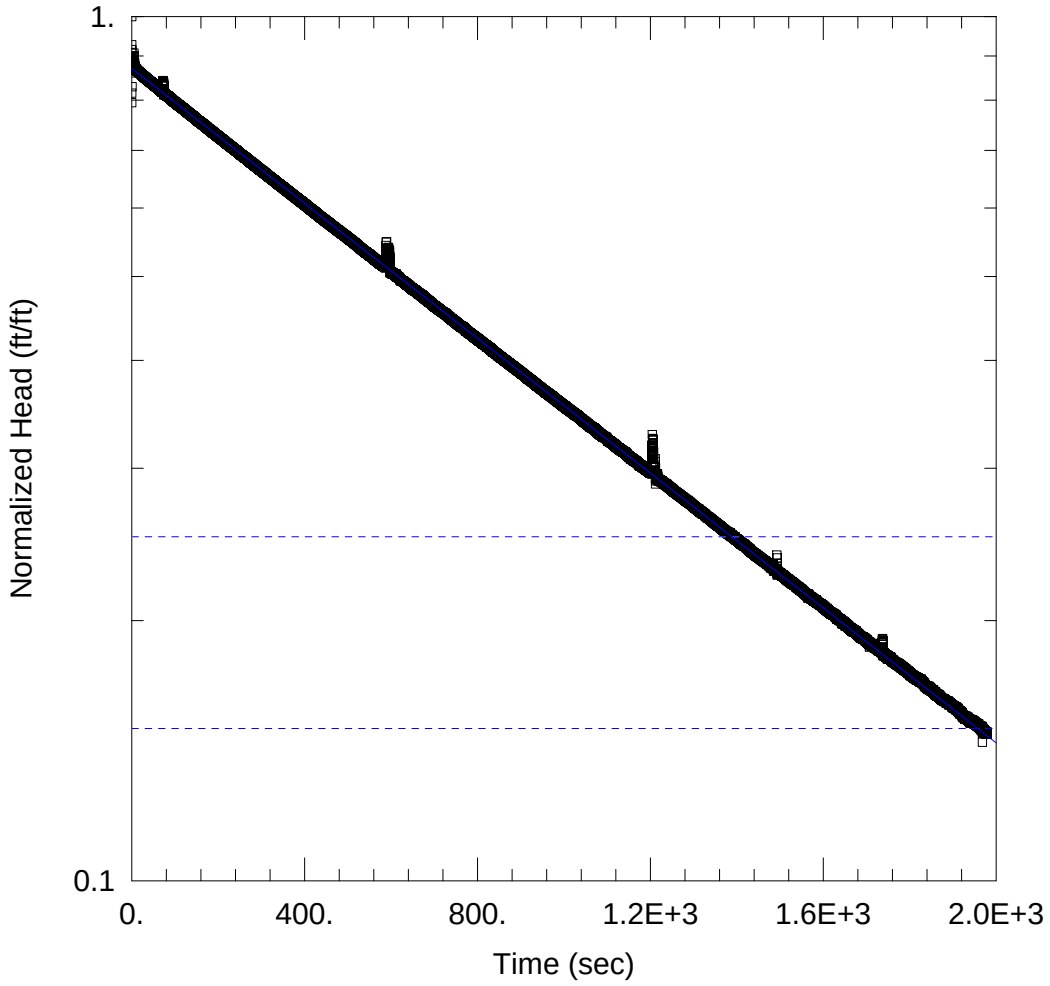
WELL DATA (SS-GWBH02)

Initial Displacement: 0.86 ft
Total Well Penetration Depth: 11.11 ft
Casing Radius: 0.025 ft
Static Water Column Height: 11.11 ft
Screen Length: 3. ft
Well Radius: 0.1 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.04625 m/day y0 = 0.7486 ft



FALLING HEAD 01

Data Set: \...\SS-GWBH02_FH01_Hv.aqt
Date: 05/22/17 Time: 19:09:55

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH02
Test Date: 21/04/2017

AQUIFER DATA

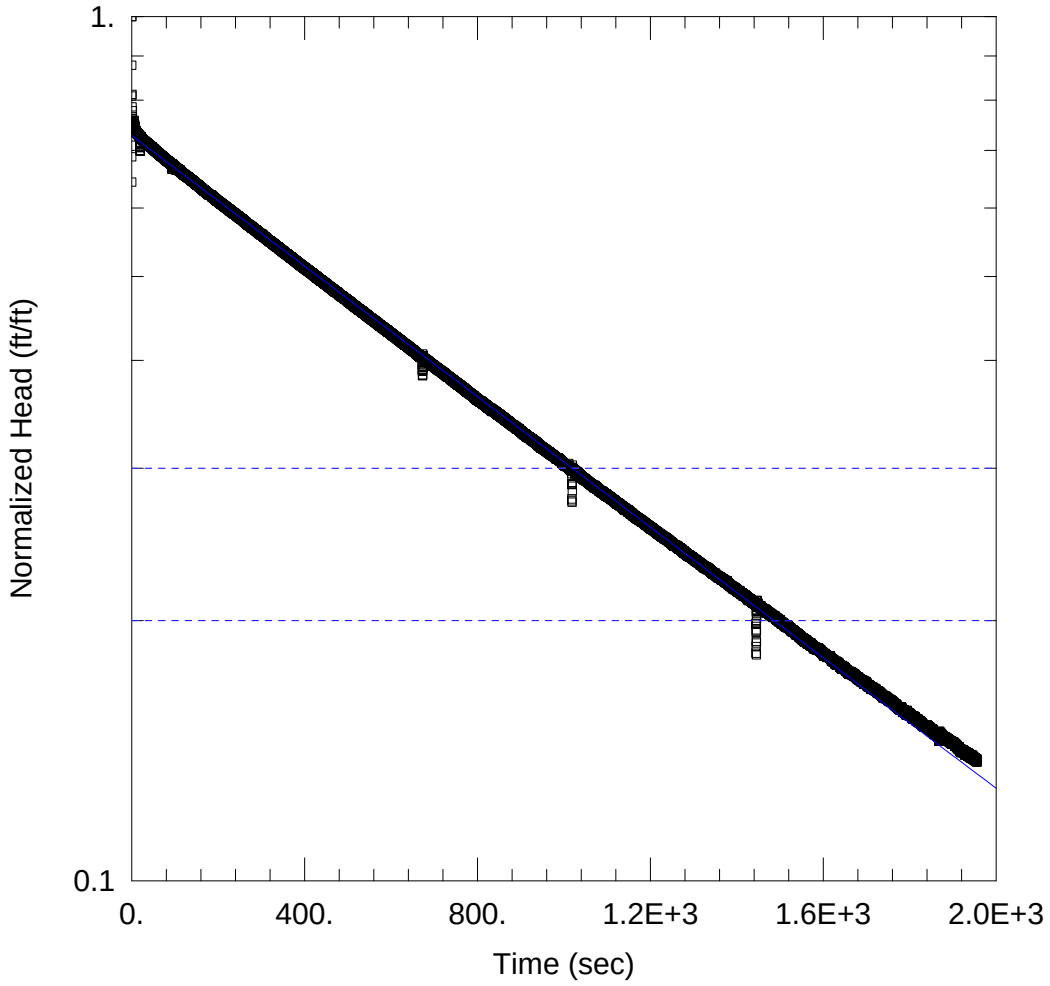
Saturated Thickness: 16.11 ft
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (SS-GWBH02)

Initial Displacement: 0.86 ft
Total Well Penetration Depth: 11.11 ft
Casing Radius: 0.025 ft
Static Water Column Height: 11.11 ft
Screen Length: 3. ft
Well Radius: 0.1 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.057 m/day
y0 = 0.7486 ft



RISING HEAD 01

Data Set: \...\SS-GWBH02_RH01_Br.aqt
Date: 05/22/17 Time: 19:09:50

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH02
Test Date: 21/04/2017

AQUIFER DATA

Saturated Thickness: 16.11 ft Anisotropy Ratio (Kz/Kr): 0.2

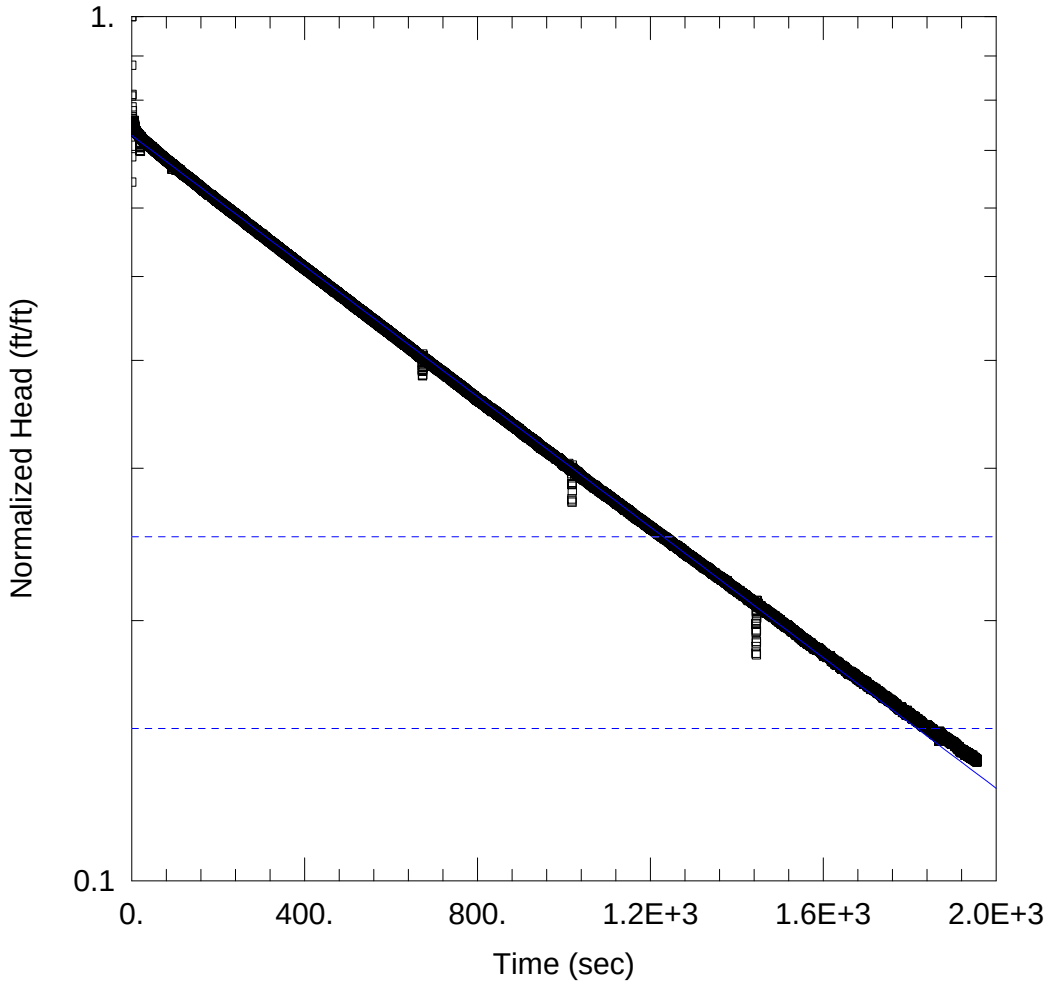
WELL DATA (SS-GWBH02)

Initial Displacement: 0.8912 ft
Total Well Penetration Depth: 11.11 ft
Casing Radius: 0.025 ft
Static Water Column Height: 11.11 ft
Screen Length: 3. ft
Well Radius: 0.1 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.04479 m/day y0 = 0.6491 ft



RISING HEAD 01

Data Set: \...\SS-GWBH02_RH01_Hv.aqt
Date: 05/22/17 Time: 19:09:44

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH02
Test Date: 21/04/2017

AQUIFER DATA

Saturated Thickness: 16.11 ft Anisotropy Ratio (Kz/Kr): 0.2

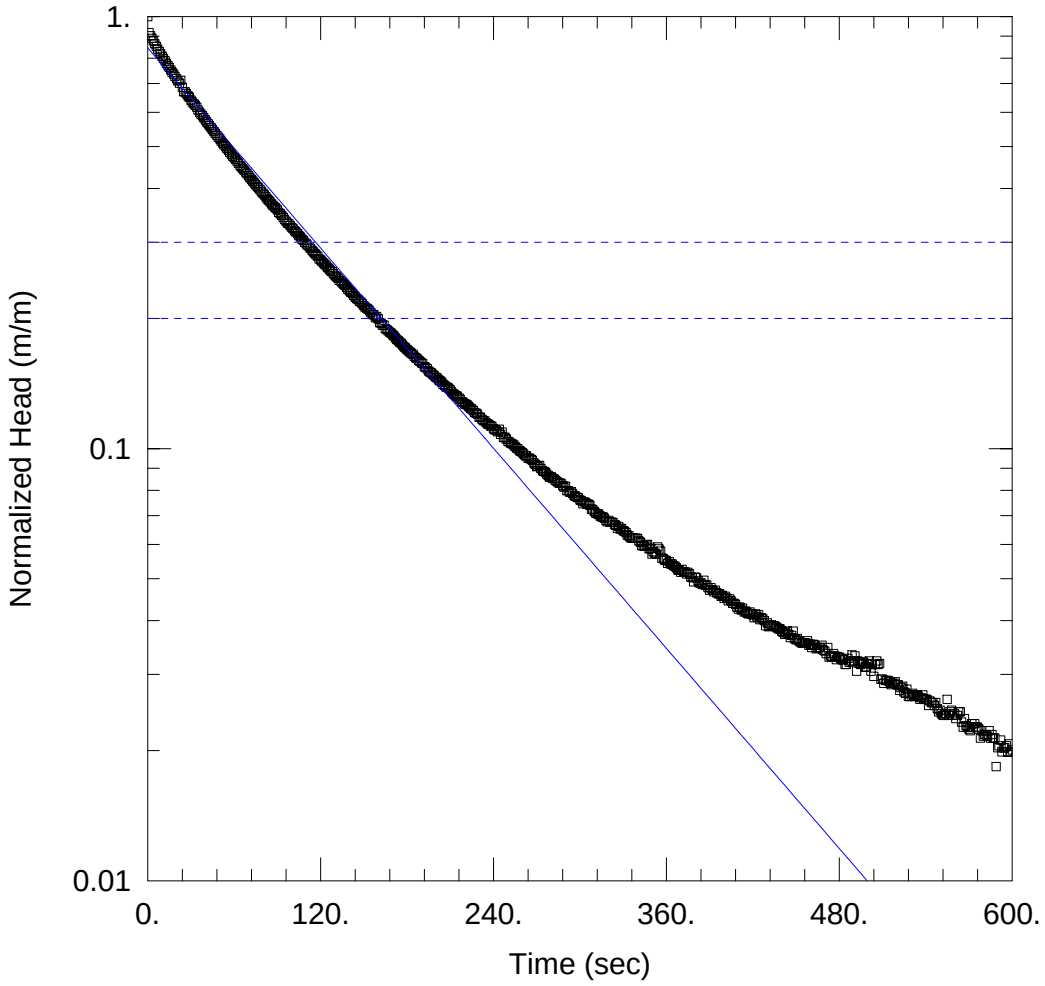
WELL DATA (SS-GWBH02)

Initial Displacement: 0.8912 ft
Total Well Penetration Depth: 11.11 ft
Casing Radius: 0.025 ft
Static Water Column Height: 11.11 ft
Screen Length: 3. ft
Well Radius: 0.1 ft
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.05519 m/day y0 = 0.6491 ft



FALLING HEAD 01

Data Set: \...\SS-GWBH03_FH01_BR.aqt
Date: 05/22/17 Time: 19:15:45

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH03
Test Date: 30/03/2017

AQUIFER DATA

Saturated Thickness: 10.79 m Anisotropy Ratio (Kz/Kr): 0.2

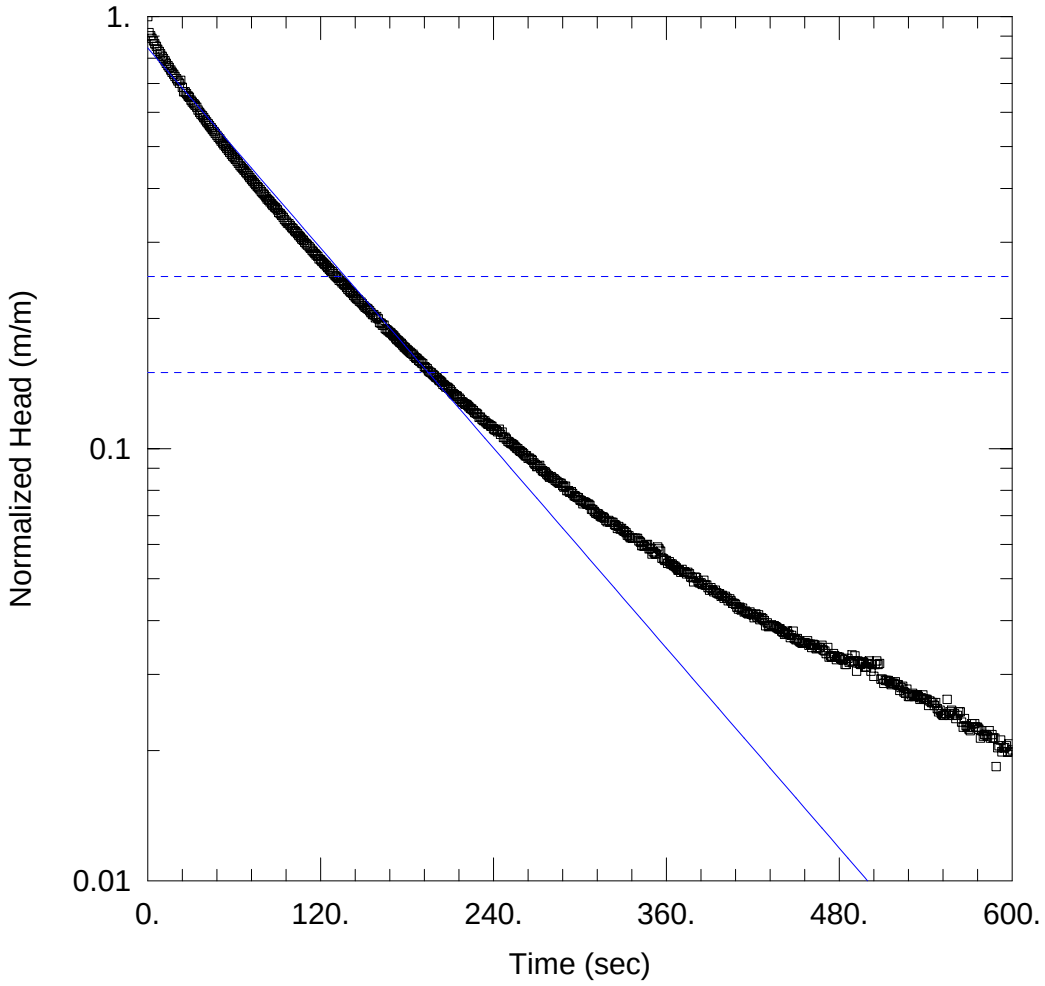
WELL DATA (SS-GWBH03)

Initial Displacement: 0.468 m
Total Well Penetration Depth: 5.786 m
Casing Radius: 0.025 m
Static Water Column Height: 5.786 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.376 m/day y0 = 0.3955 m



FALLING HEAD 01

Data Set: \...\SS-GWBH03_FH01_Hv.aqt
Date: 05/22/17 Time: 19:15:41

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH03
Test Date: 30/03/2017

AQUIFER DATA

Saturated Thickness: 10.79 m Anisotropy Ratio (Kz/Kr): 0.2

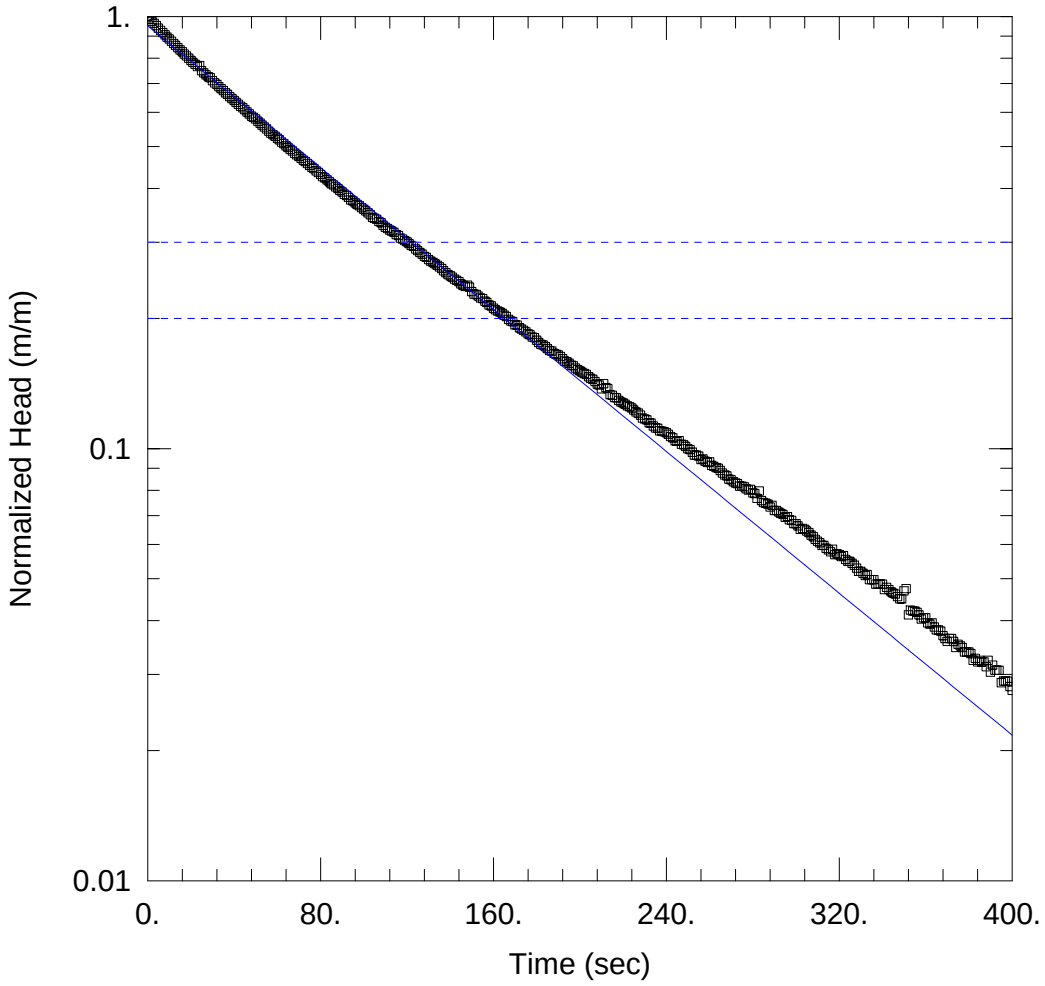
WELL DATA (SS-GWBH03)

Initial Displacement: 0.468 m
Total Well Penetration Depth: 5.786 m
Casing Radius: 0.025 m
Static Water Column Height: 5.786 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 1.849 m/day y0 = 0.3954 m



FALLING HEAD 02

Data Set: \...\SS-GWBH03_FH02_BR.aqt
Date: 05/22/17 Time: 19:15:37

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH03
Test Date: 30/03/2017

AQUIFER DATA

Saturated Thickness: 10.79 m Anisotropy Ratio (Kz/Kr): 0.2

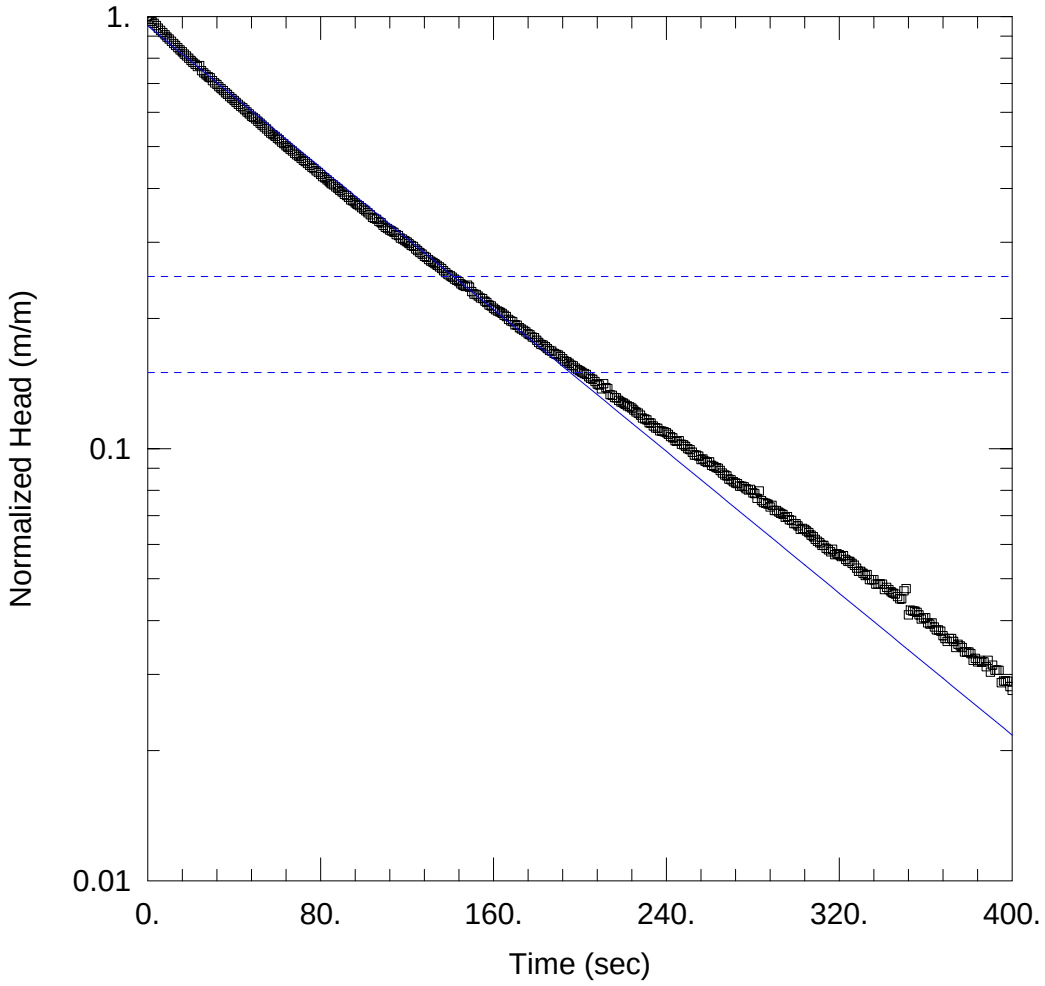
WELL DATA (SS-GWBH03)

Initial Displacement: 0.352 m
Total Well Penetration Depth: 5.786 m
Casing Radius: 0.025 m
Static Water Column Height: 5.786 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.462 m/day y0 = 0.3345 m



FALLING HEAD 02

Data Set: \...\SS-GWBH03_FH02_Hv.aqt
Date: 05/22/17 Time: 19:15:33

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH03
Test Date: 30/03/2017

AQUIFER DATA

Saturated Thickness: 10.79 m Anisotropy Ratio (Kz/Kr): 0.2

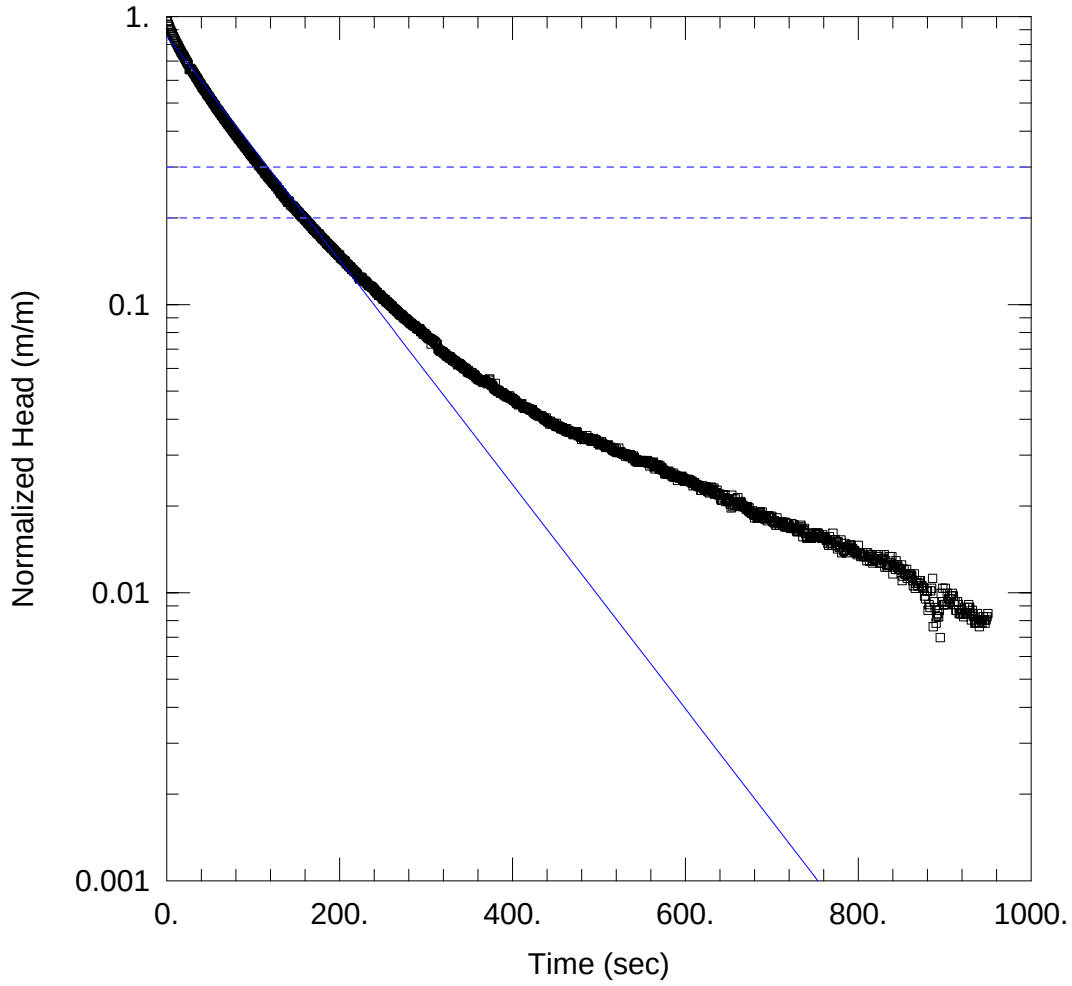
WELL DATA (SS-GWBH03)

Initial Displacement: 0.352 m
Total Well Penetration Depth: 5.786 m
Casing Radius: 0.025 m
Static Water Column Height: 5.786 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 1.967 m/day y0 = 0.3345 m



RISING HEAD 01

Data Set: \...\SS-GWBH03_RH01_BR.aqt
Date: 05/22/17 Time: 19:15:29

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH03
Test Date: 30/03/2017

AQUIFER DATA

Saturated Thickness: 10.79 m Anisotropy Ratio (Kz/Kr): 0.2

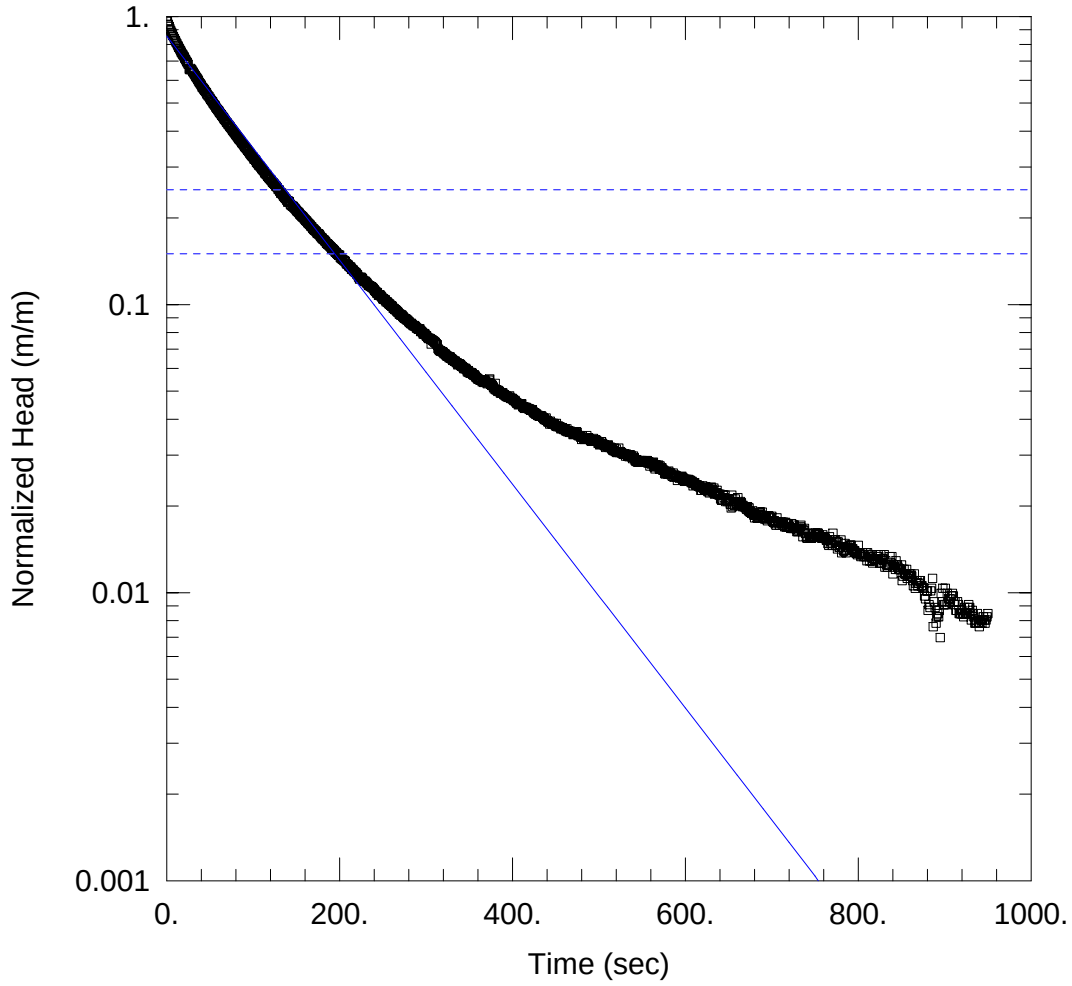
WELL DATA (SS-GWBH03)

Initial Displacement: 0.473 m
Total Well Penetration Depth: 5.786 m
Casing Radius: 0.025 m
Static Water Column Height: 5.786 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 1.387 m/day y0 = 0.4044 m



RISING HEAD 01

Data Set: \...\SS-GWBH03_RH01_Hv.aqt
Date: 05/22/17 Time: 19:15:24

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH03
Test Date: 30/03/2017

AQUIFER DATA

Saturated Thickness: 10.79 m Anisotropy Ratio (Kz/Kr): 0.2

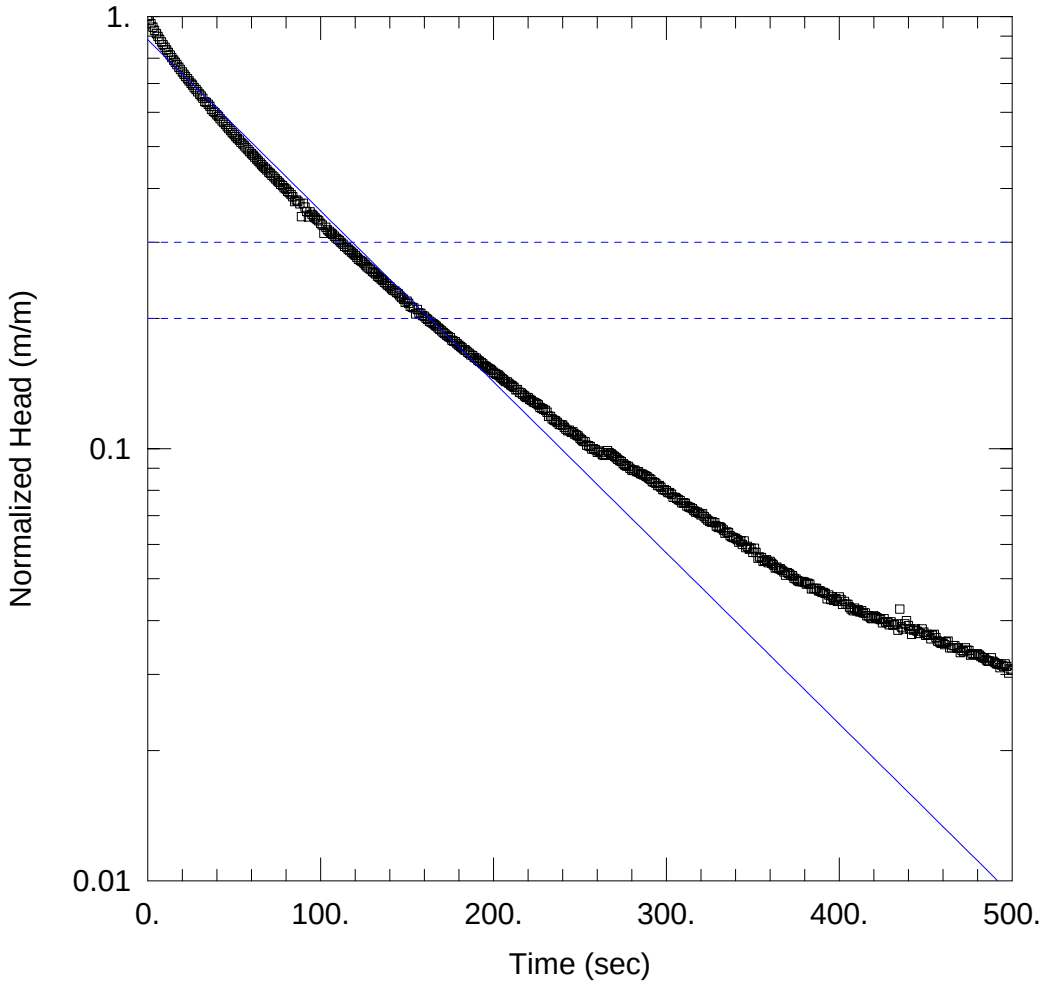
WELL DATA (SS-GWBH03)

Initial Displacement: 0.473 m
Total Well Penetration Depth: 5.786 m
Casing Radius: 0.025 m
Static Water Column Height: 5.786 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 1.864 m/day y0 = 0.4042 m



RISING HEAD 02

Data Set: \...\SS-GWBH03_RH02_BR.aqt
Date: 05/22/17 Time: 19:15:18

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH03
Test Date: 30/03/2017

AQUIFER DATA

Saturated Thickness: 10.79 m Anisotropy Ratio (Kz/Kr): 0.2

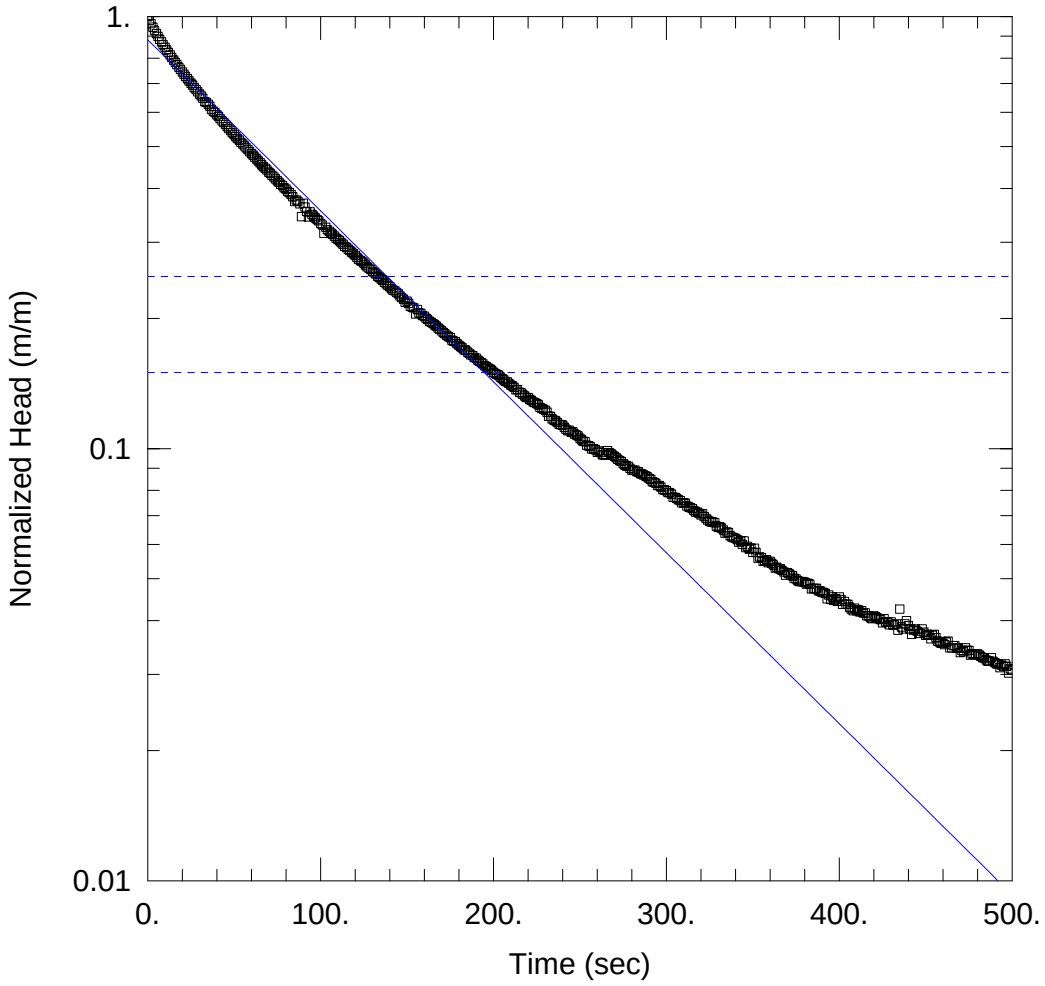
WELL DATA (SS-GWBH03)

Initial Displacement: 0.463 m
Total Well Penetration Depth: 5.786 m
Casing Radius: 0.025 m
Static Water Column Height: 5.786 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 1.411 m/day
y0 = 0.4088 m



RISING HEAD 02

Data Set: \...\SS-GWBH03_RH02_Hv.aqt
Date: 05/22/17 Time: 19:15:12

PROJECT INFORMATION

Company: Coffey
Client: Metro
Project: 754-GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH03
Test Date: 30/03/2017

AQUIFER DATA

Saturated Thickness: 10.79 m Anisotropy Ratio (Kz/Kr): 0.2

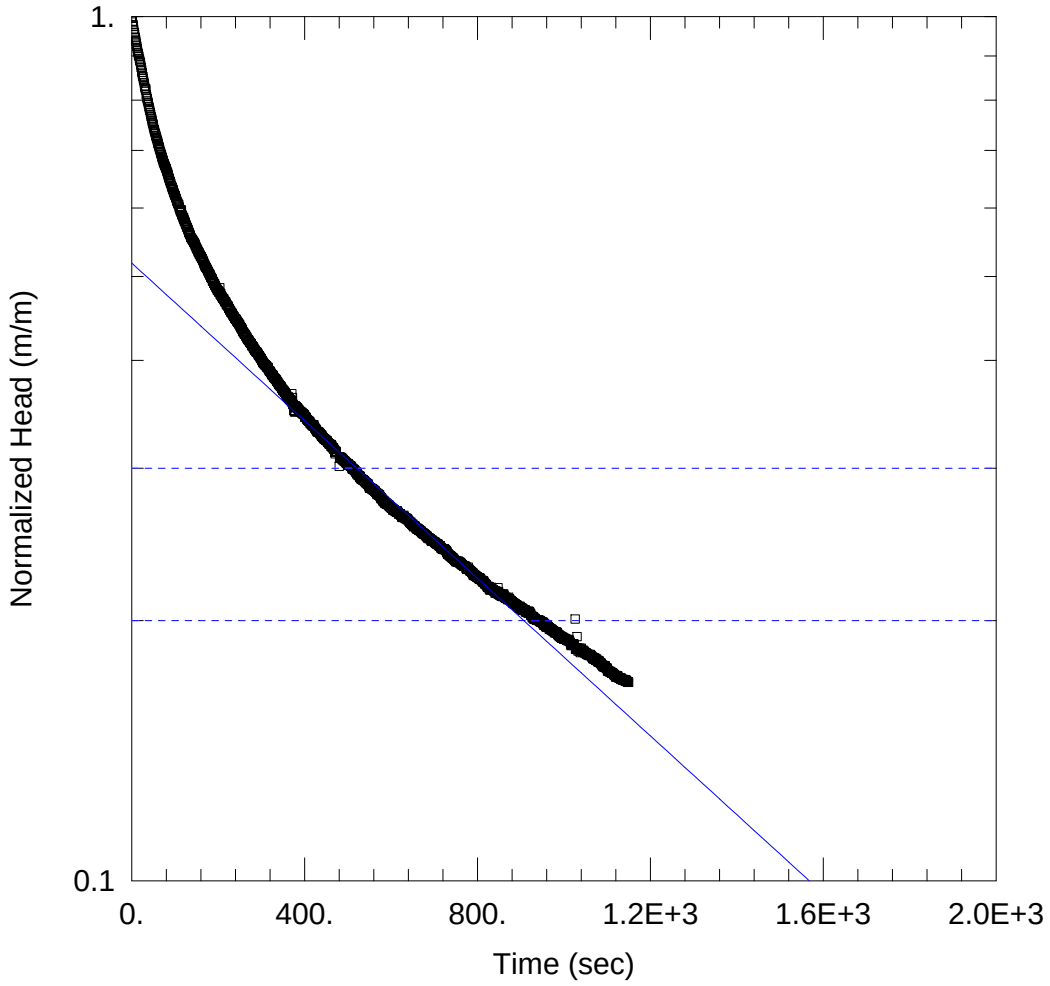
WELL DATA (SS-GWBH03)

Initial Displacement: 0.463 m
Total Well Penetration Depth: 5.786 m
Casing Radius: 0.025 m
Static Water Column Height: 5.786 m
Screen Length: 3. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 1.897 m/day y0 = 0.4087 m



FALLING-HEAD 01

Data Set: \...\SS-GWBH04_FH01_BR.aqt
Date: 05/22/17 Time: 19:39:57

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH04
Test Date: 06.03.2017

AQUIFER DATA

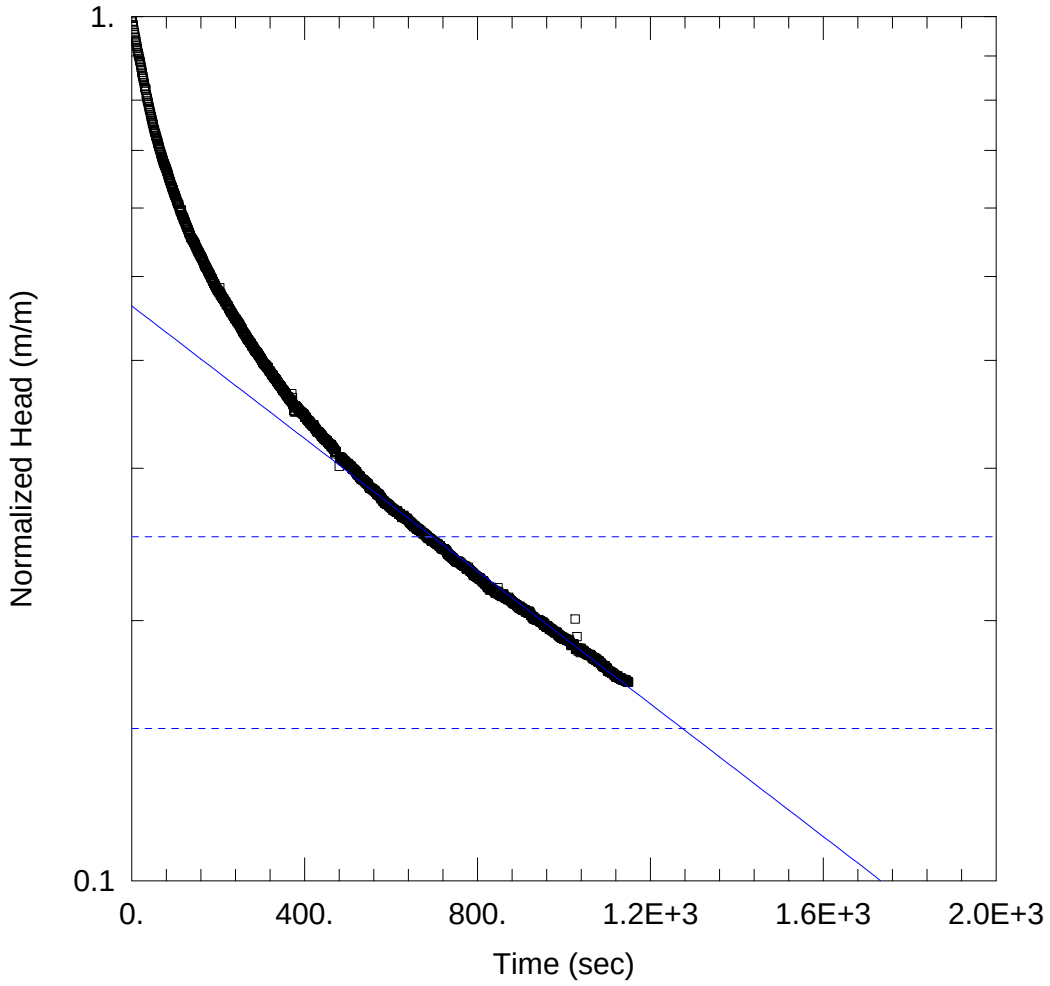
Saturated Thickness: 8.439 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (SS-GWBH 04)

Initial Displacement: 0.5224 m
Total Well Penetration Depth: 3.439 m
Casing Radius: 0.025 m
Static Water Column Height: 3.439 m
Screen Length: 2. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.2118 m/day
y0 = 0.2708 m



FALLING-HEAD 01

Data Set: \...\SS-GWBH04_FH01_Hv.aqt
Date: 05/22/17 Time: 19:39:52

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH04
Test Date: 06.03.2017

AQUIFER DATA

Saturated Thickness: 8.439 m Anisotropy Ratio (Kz/Kr): 0.2

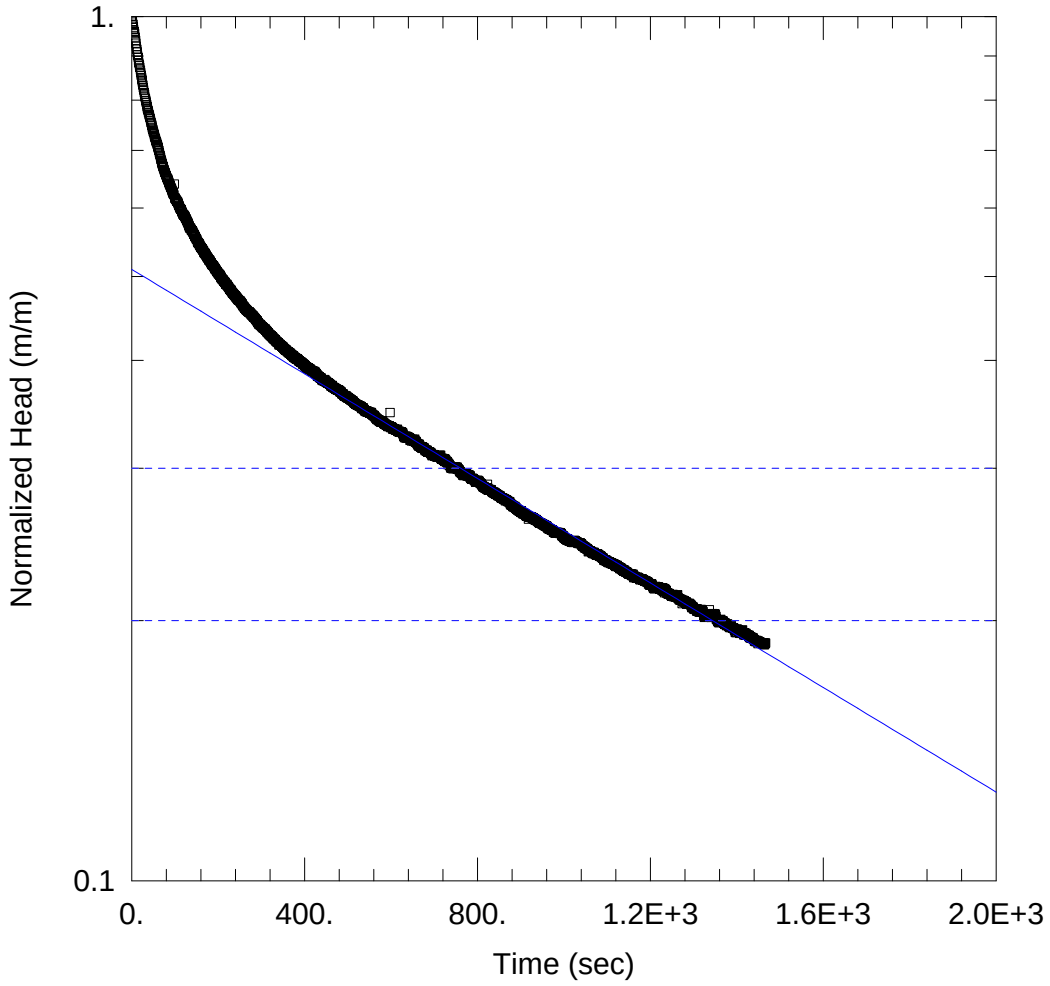
WELL DATA (SS-GWBH 04)

Initial Displacement: 0.5224 m
Total Well Penetration Depth: 3.439 m
Casing Radius: 0.025 m
Static Water Column Height: 3.439 m
Screen Length: 2. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.2494 m/day y0 = 0.2416 m



FALLING-HEAD 02

Data Set: \...\SS-GWBH04_FH02_BR.aqt
Date: 05/22/17 Time: 19:39:45

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH04
Test Date: 06.03.2017

AQUIFER DATA

Saturated Thickness: 8.439 m Anisotropy Ratio (Kz/Kr): 0.2

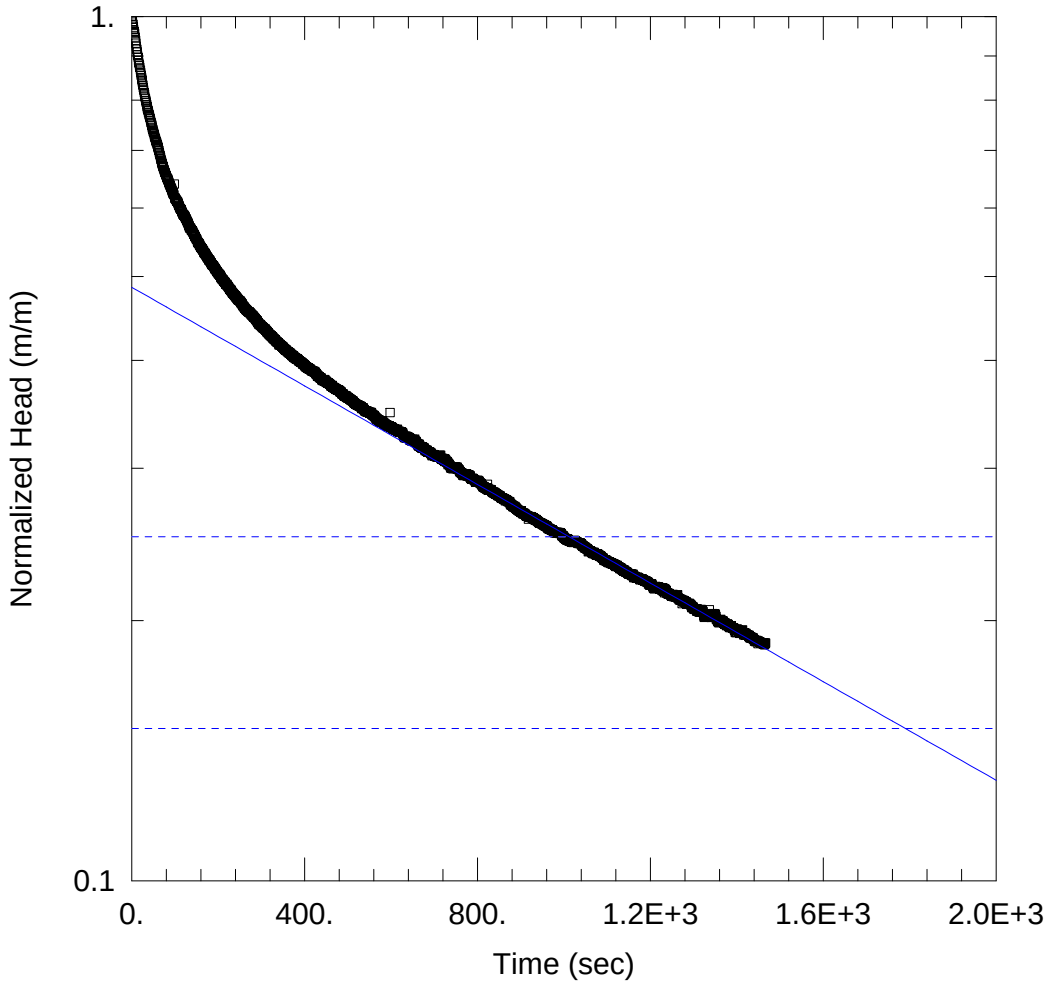
WELL DATA (SS-GWBH 04)

Initial Displacement: 0.499 m
Total Well Penetration Depth: 3.439 m
Casing Radius: 0.025 m
Static Water Column Height: 3.439 m
Screen Length: 2. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.1405 m/day y0 = 0.2544 m



FALLING-HEAD 02

Data Set: \...\SS-GWBH04_FH02_Hv.aqt
Date: 05/22/17 Time: 19:39:40

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH04
Test Date: 06.03.2017

AQUIFER DATA

Saturated Thickness: 8.439 m Anisotropy Ratio (Kz/Kr): 0.2

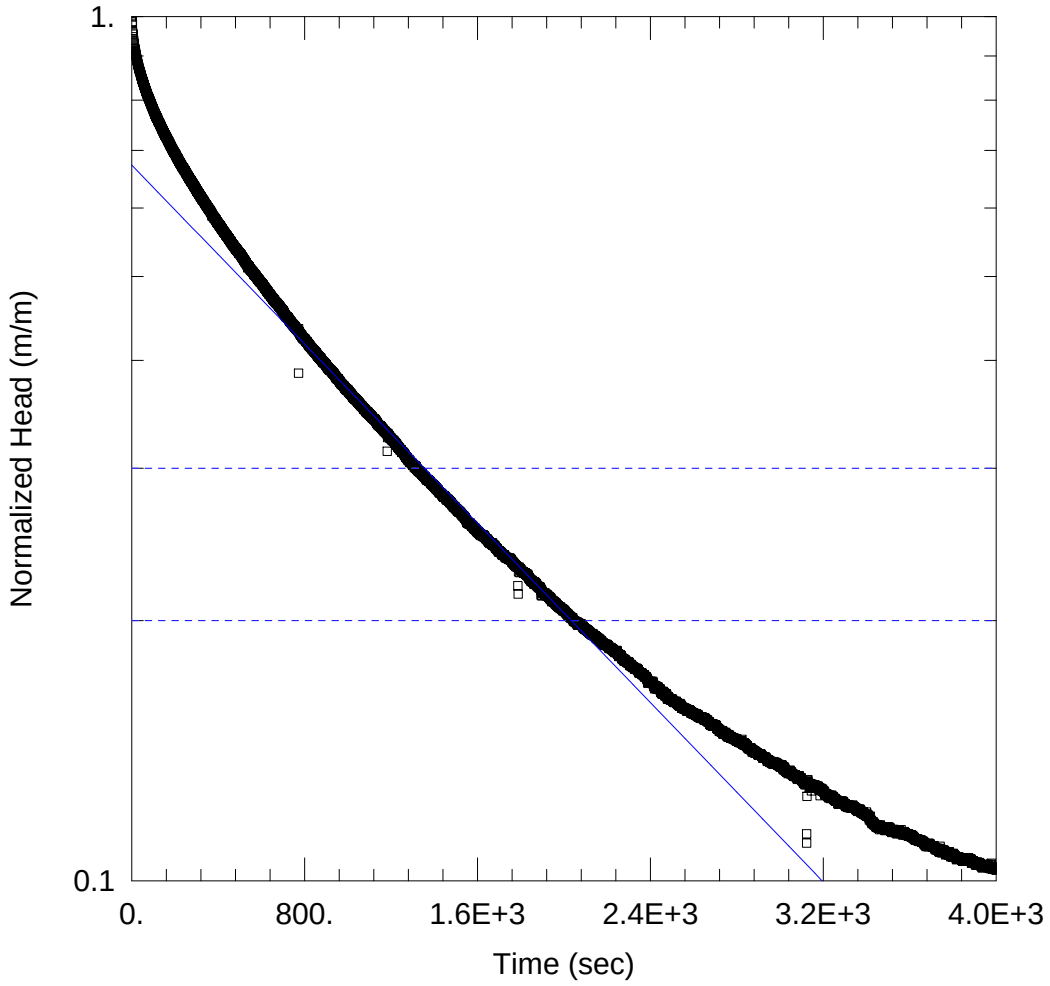
WELL DATA (SS-GWBH 04)

Initial Displacement: 0.499 m
Total Well Penetration Depth: 3.439 m
Casing Radius: 0.025 m
Static Water Column Height: 3.439 m
Screen Length: 2. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.1854 m/day y0 = 0.2425 m



RISING-HEAD 01

Data Set: \...\SS-GWBH04_RH01_BR.aqt
Date: 05/22/17 Time: 19:39:35

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH04
Test Date: 06.03.2017

AQUIFER DATA

Saturated Thickness: 8.439 m Anisotropy Ratio (Kz/Kr): 0.2

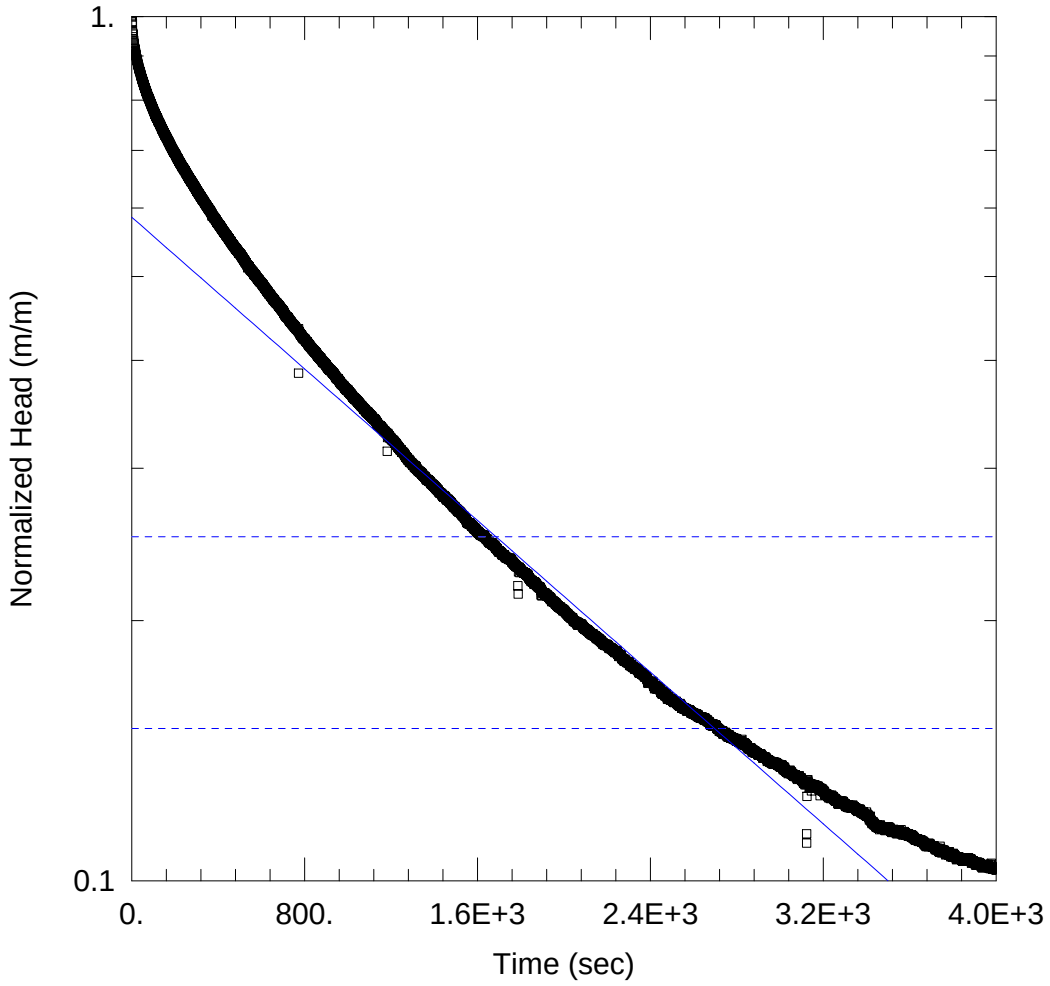
WELL DATA (SS-GWBH 04)

Initial Displacement: 0.729 m
Total Well Penetration Depth: 3.439 m
Casing Radius: 0.025 m
Static Water Column Height: 3.439 m
Screen Length: 2. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.1204 m/day
y0 = 0.4907 m



RISING-HEAD 01

Data Set: \...\SS-GWBH04_RH01_Hv.aqt
Date: 05/22/17 Time: 19:39:31

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH04
Test Date: 06.03.2017

AQUIFER DATA

Saturated Thickness: 8.439 m Anisotropy Ratio (Kz/Kr): 0.2

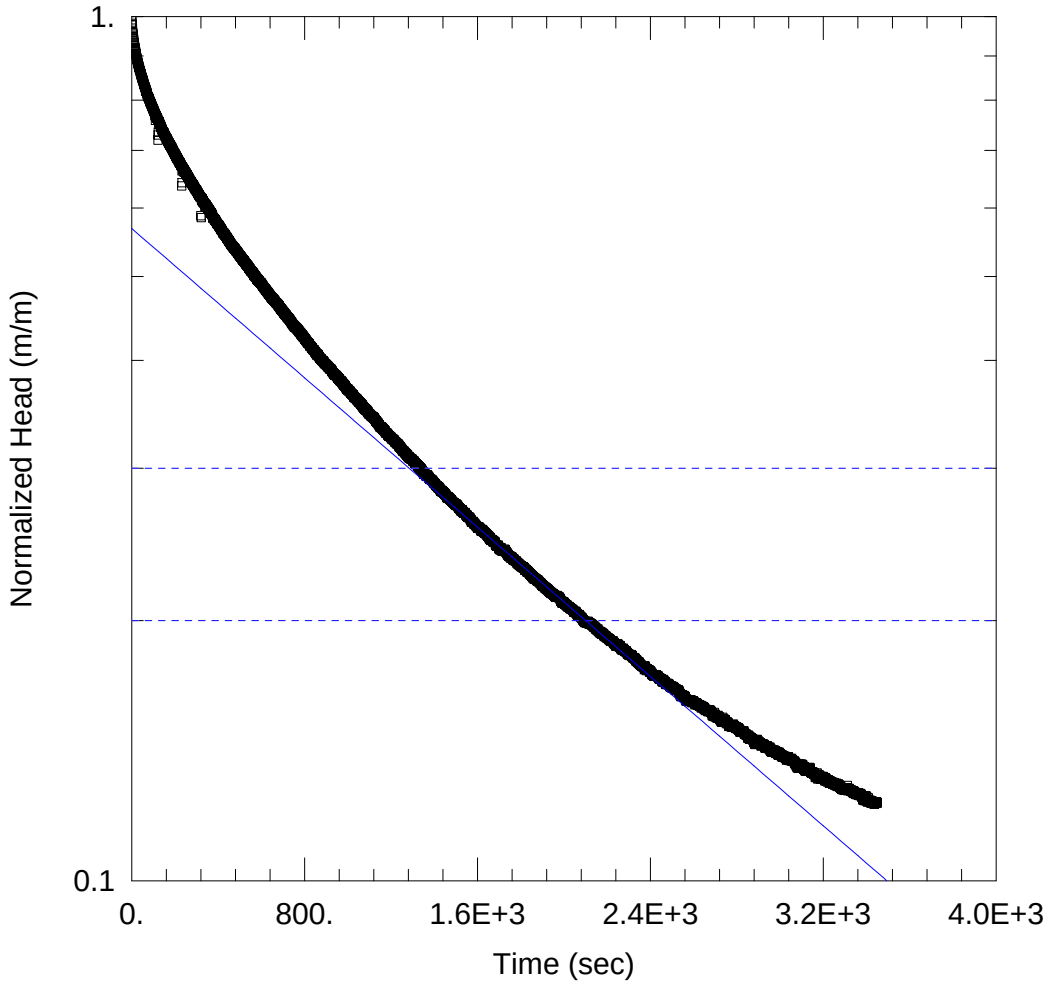
WELL DATA (SS-GWBH 04)

Initial Displacement: 0.729 m
Total Well Penetration Depth: 3.439 m
Casing Radius: 0.025 m
Static Water Column Height: 3.439 m
Screen Length: 2. m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.1425 m/day y0 = 0.427 m



RISING-HEAD 02

Data Set: \...\SS-GWBH04_RH02_BR.aqt
Date: 05/22/17 Time: 19:39:26

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH04
Test Date: 06.03.2017

AQUIFER DATA

Saturated Thickness: 8.389 m Anisotropy Ratio (Kz/Kr): 0.2

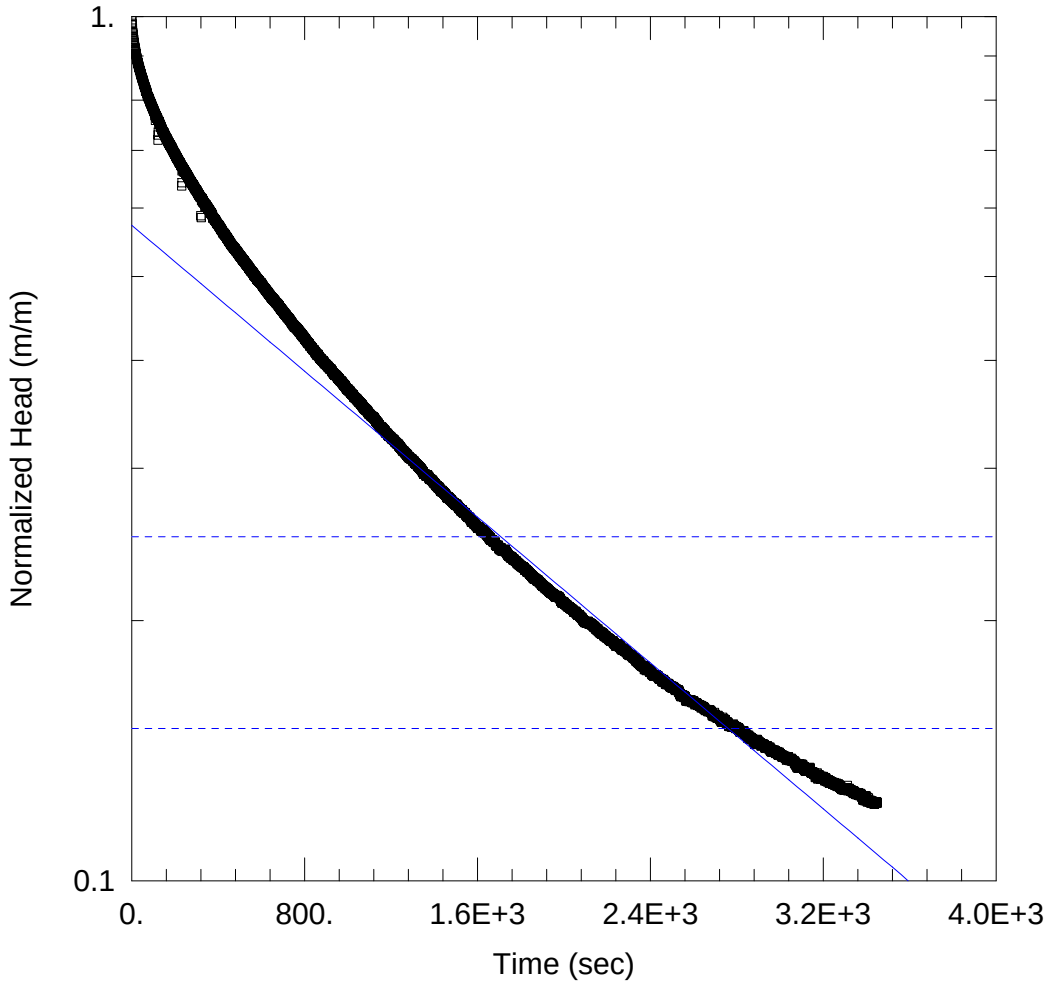
WELL DATA (SS-GWBH 04)

Initial Displacement: 0.707 m
Total Well Penetration Depth: 3.389 m
Casing Radius: 0.025 m
Static Water Column Height: 3.389 m
Screen Length: 1.95 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice

K = 0.1022 m/day y0 = 0.4018 m



RISING-HEAD 02

Data Set: \...\SS-GWBH04_RH02_Hv.aqt
Date: 05/22/17 Time: 19:39:19

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH04
Test Date: 06.03.2017

AQUIFER DATA

Saturated Thickness: 8.439 m Anisotropy Ratio (Kz/Kr): 0.2

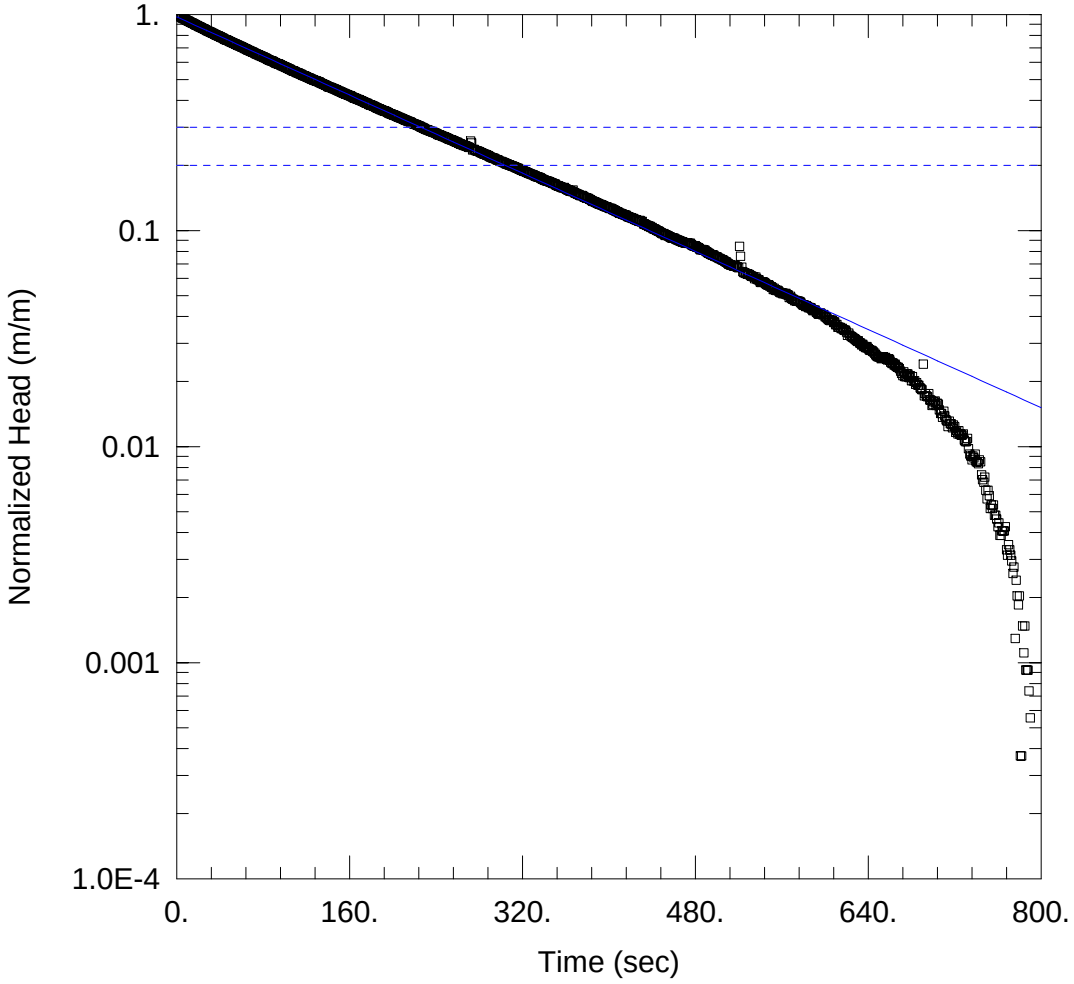
WELL DATA (SS-GWBH 04)

Initial Displacement: 0.707 m
Total Well Penetration Depth: 3.389 m
Casing Radius: 0.025 m
Static Water Column Height: 3.439 m
Screen Length: 1.95 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.1397 m/day y0 = 0.4053 m



FALLING-HEAD 01

Data Set: \...\SS-GWBH05_FH01_BR.aqt
Date: 05/22/17 Time: 19:42:36

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH05
Test Date: 06.03.2017

AQUIFER DATA

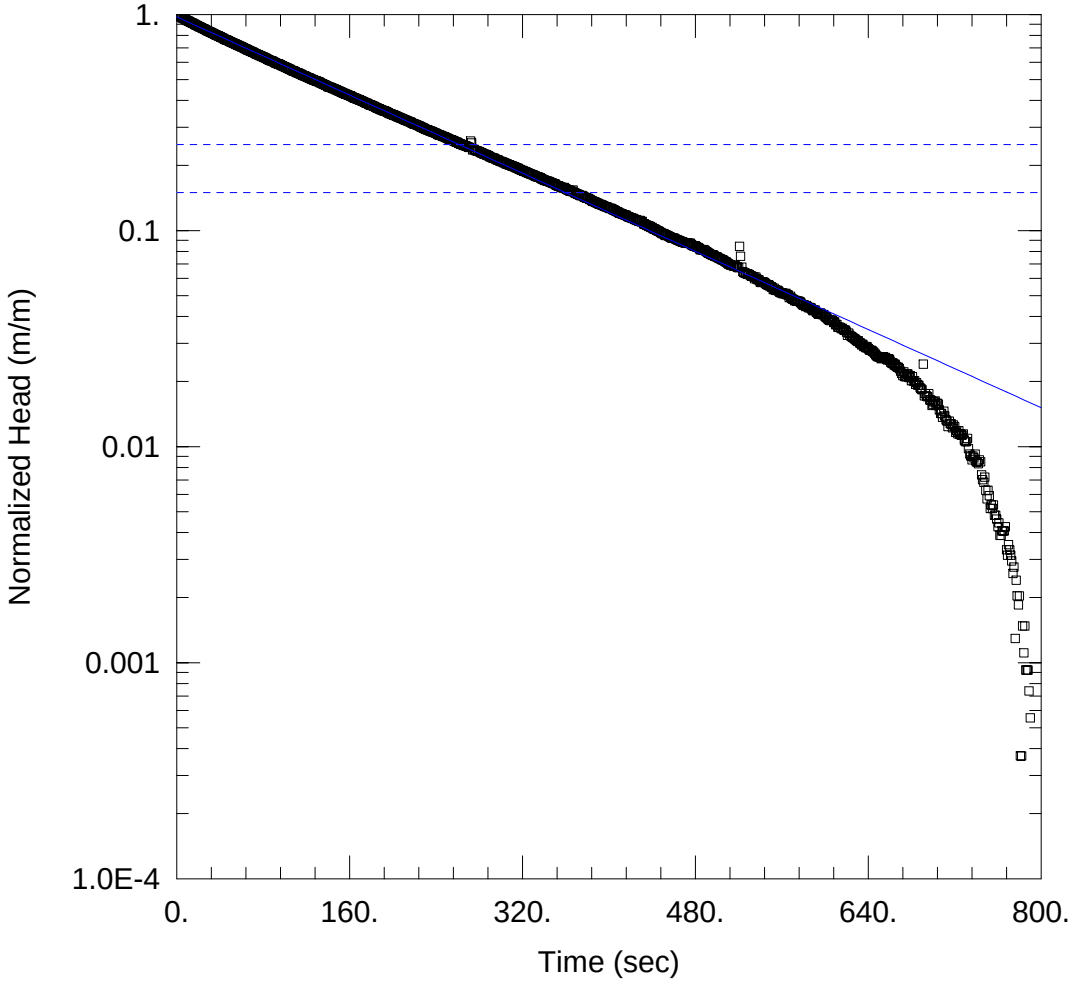
Saturated Thickness: 19.36 m
Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (SS-GWBH05)

Initial Displacement: 0.541 m
Total Well Penetration Depth: 14.36 m
Casing Radius: 0.025 m
Static Water Column Height: 14.36 m
Screen Length: 3.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.7954 m/day
y0 = 0.527 m



FALLING-HEAD 01

Data Set: \...\SS-GWBH05_FH01_Hv.aqt
Date: 05/22/17 Time: 19:42:32

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH05
Test Date: 06.03.2017

AQUIFER DATA

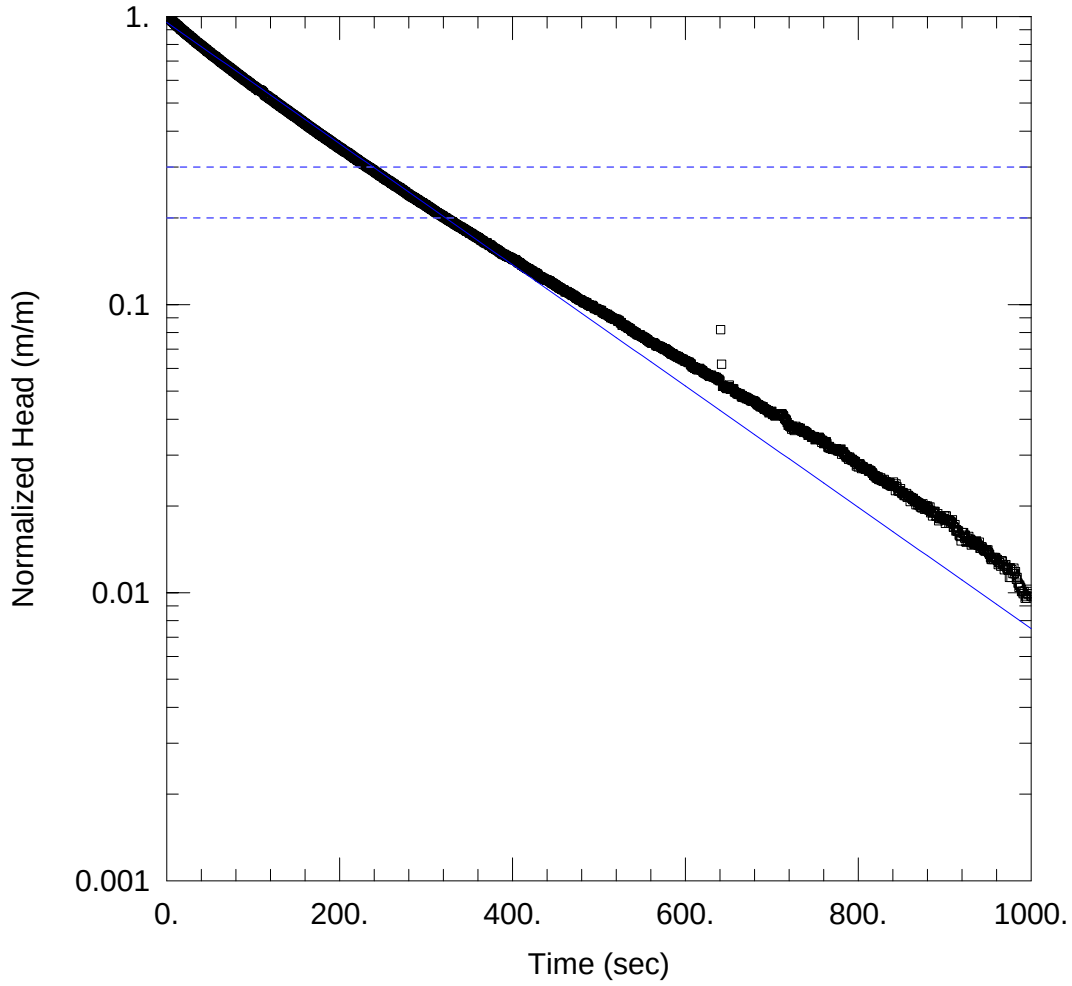
Saturated Thickness: 19.36 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (SS-GWBH05)

Initial Displacement: 0.541 m
Total Well Penetration Depth: 14.36 m
Casing Radius: 0.025 m
Static Water Column Height: 14.36 m
Screen Length: 3.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.9631 m/day
y0 = 0.527 m



FALLING-HEAD 02

Data Set: \...\SS-GWBH05_FH02_BR.aqt
Date: 05/22/17 Time: 19:42:28

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH05
Test Date: 06.03.2017

AQUIFER DATA

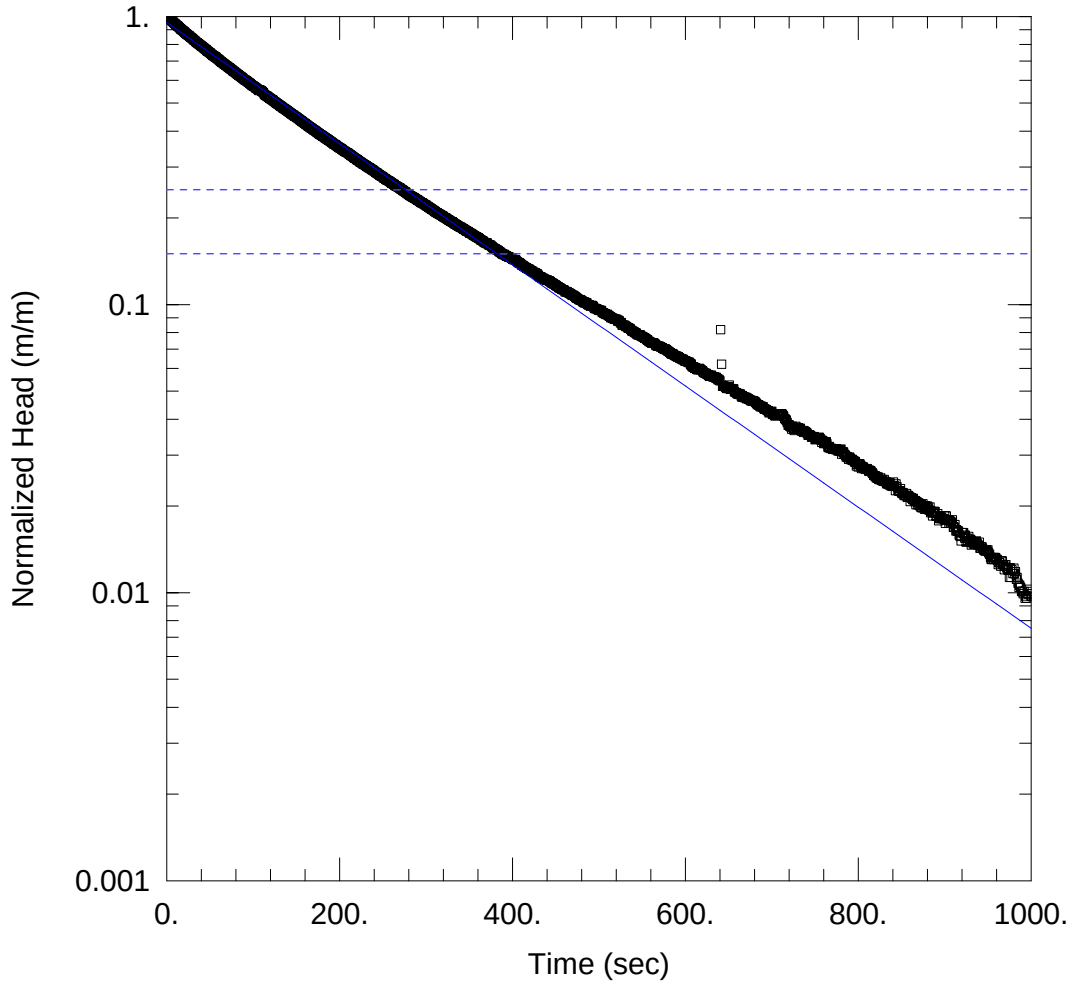
Saturated Thickness: 19.36 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (SS-GWBH05)

Initial Displacement: 0.575 m
Total Well Penetration Depth: 14.36 m
Casing Radius: 0.025 m
Static Water Column Height: 14.36 m
Screen Length: 3.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 0.7404 m/day
y0 = 0.5486 m



FALLING-HEAD 02

Data Set: \...\SS-GWBH05_FH02_Hv.aqt
Date: 05/22/17 Time: 19:42:24

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH05
Test Date: 06.03.2017

AQUIFER DATA

Saturated Thickness: 19.36 m Anisotropy Ratio (Kz/Kr): 0.2

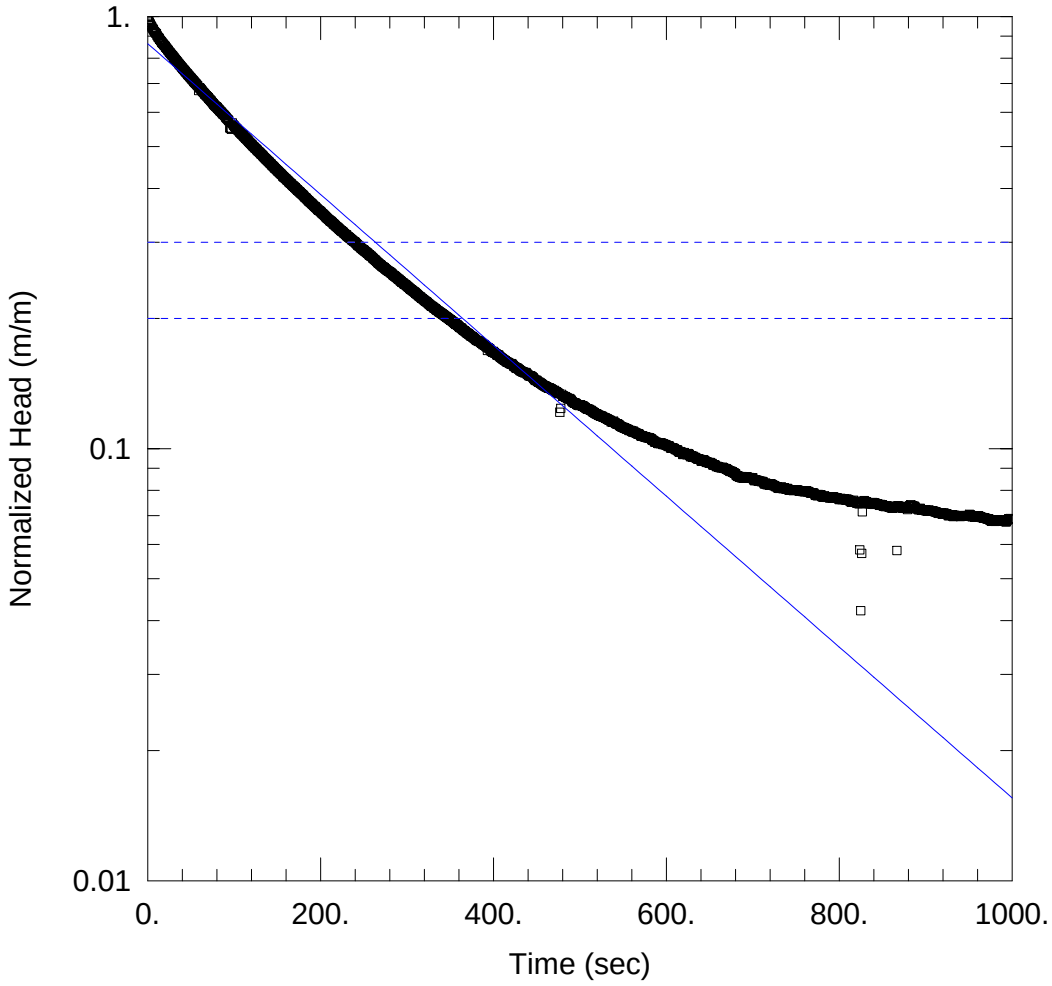
WELL DATA (SS-GWBH05)

Initial Displacement: 0.575 m
Total Well Penetration Depth: 14.36 m
Casing Radius: 0.025 m
Static Water Column Height: 14.36 m
Screen Length: 3.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined Solution Method: Hvorslev

K = 0.8961 m/day y0 = 0.5485 m



RISING-HEAD 01

Data Set: \...\SS-GWBH05_RH01_BR.aqt
Date: 05/22/17 Time: 19:42:19

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH05
Test Date: 06.03.2017

AQUIFER DATA

Saturated Thickness: 19.36 m Anisotropy Ratio (Kz/Kr): 0.2

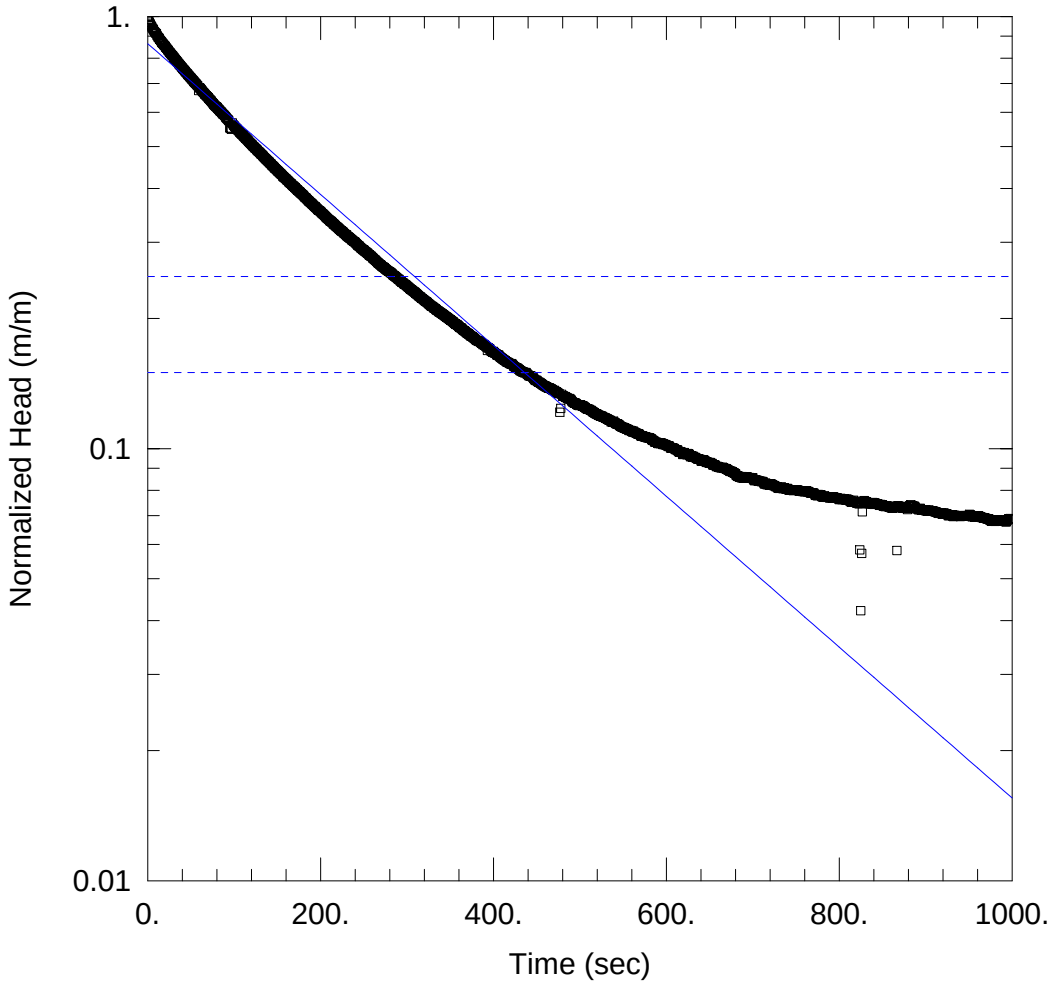
WELL DATA (SS-GWBH05)

Initial Displacement: 0.7288 m
Total Well Penetration Depth: 14.36 m
Casing Radius: 0.025 m
Static Water Column Height: 14.36 m
Screen Length: 3.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.6141 m/day
y0 = 0.6303 m



RISING-HEAD 01

Data Set: \...\SS-GWBH05_RH01_Hv.aqt
Date: 05/22/17 Time: 19:42:15

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH05
Test Date: 06.03.2017

AQUIFER DATA

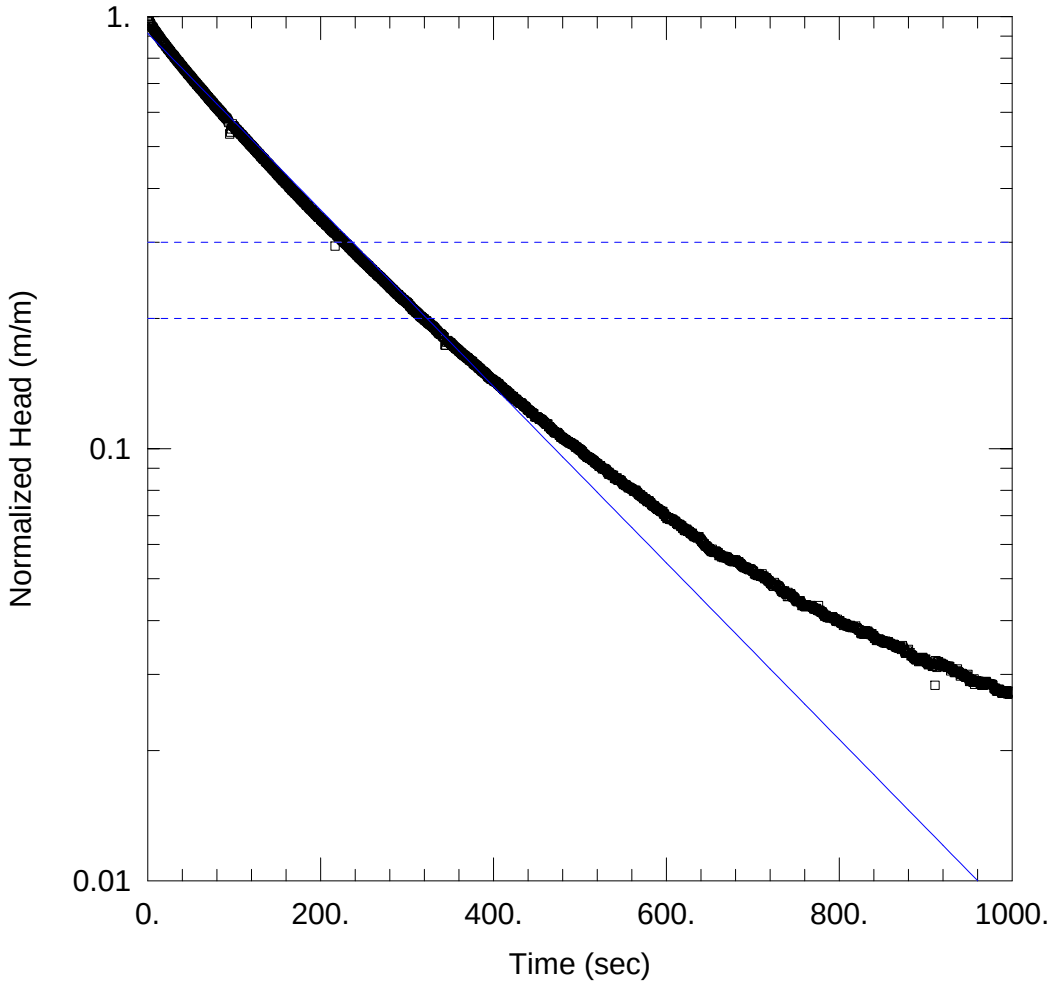
Saturated Thickness: 19.36 m Anisotropy Ratio (Kz/Kr): 0.2

WELL DATA (SS-GWBH05)

Initial Displacement: 0.7288 m
Total Well Penetration Depth: 14.36 m
Casing Radius: 0.025 m
Static Water Column Height: 14.36 m
Screen Length: 3.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.7437 m/day
y0 = 0.6304 m



RISING-HEAD 02

Data Set: \...\SS-GWBH05_RH02_BR.aqt
Date: 05/22/17 Time: 19:42:09

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH05
Test Date: 06.03.2017

AQUIFER DATA

Saturated Thickness: 19.36 m Anisotropy Ratio (Kz/Kr): 0.2

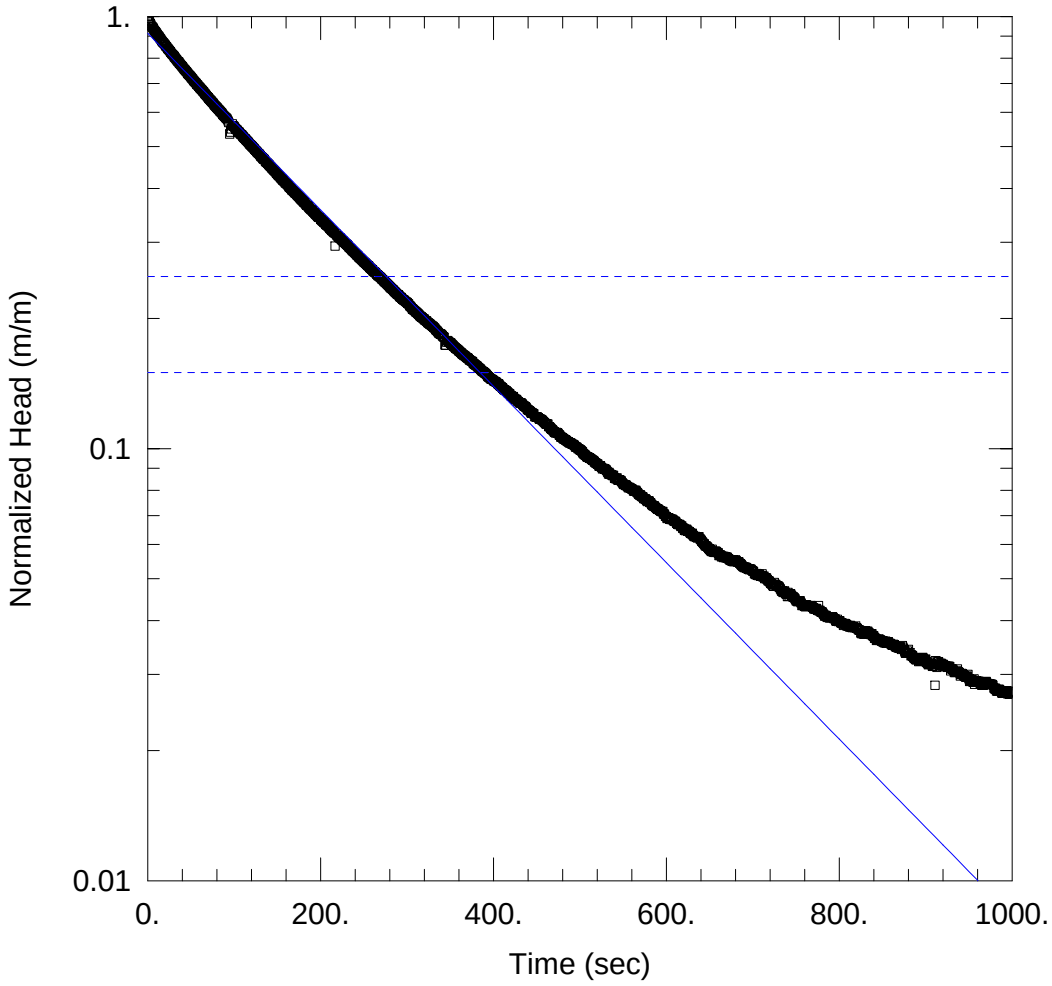
WELL DATA (SS-GWBH05)

Initial Displacement: 0.706 m
Total Well Penetration Depth: 14.36 m
Casing Radius: 0.025 m
Static Water Column Height: 14.36 m
Screen Length: 3.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

K = 0.7187 m/day
y0 = 0.6454 m



RISING-HEAD 02

Data Set: \...\SS-GWBH05_RH02_Hv.aqt
Date: 05/22/17 Time: 19:42:04

PROJECT INFORMATION

Company: Coffey
Client: MTM
Project: GEOTABTF10294AA
Location: CTF
Test Well: SS-GWBH05
Test Date: 06.03.2017

AQUIFER DATA

Saturated Thickness: 19.36 m Anisotropy Ratio (Kz/Kr): 0.2

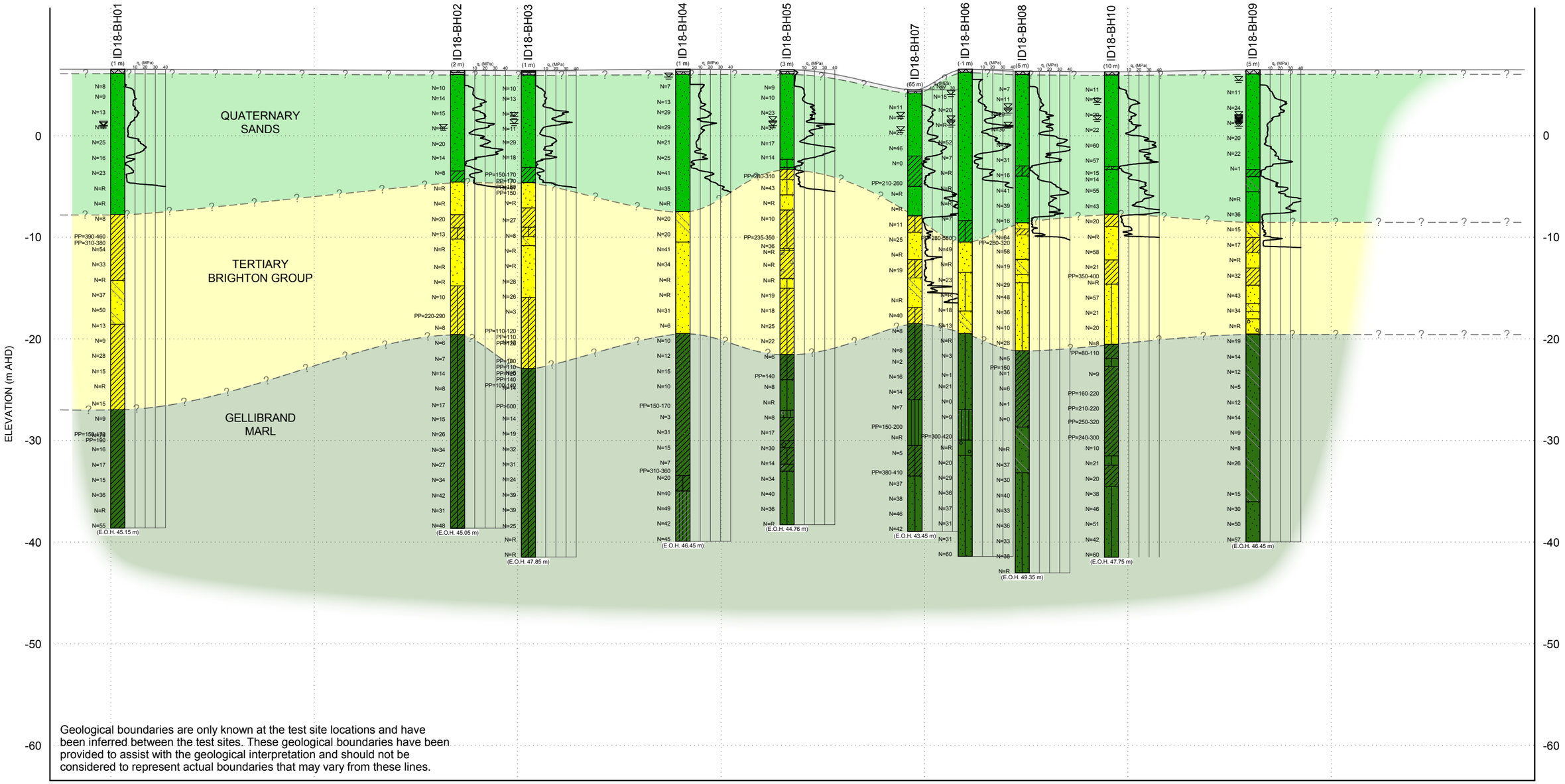
WELL DATA (SS-GWBH05)

Initial Displacement: 0.706 m
Total Well Penetration Depth: 14.36 m
Casing Radius: 0.025 m
Static Water Column Height: 14.36 m
Screen Length: 3.5 m
Well Radius: 0.1 m
Gravel Pack Porosity: 0.3

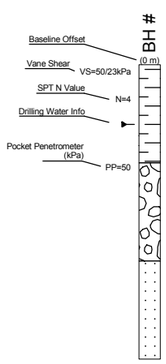
SOLUTION

Aquifer Model: Unconfined
Solution Method: Hvorslev
K = 0.8696 m/day
y0 = 0.6452 m

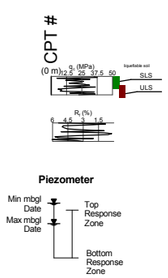
Figures



Geological boundaries are only known at the test site locations and have been inferred between the test sites. These geological boundaries have been provided to assist with the geological interpretation and should not be considered to represent actual boundaries that may vary from these lines.



POST LEGEND



MATERIAL GRAPHIC

- ASPHALT
- CLAY
- SANDY CLAY
- CLAYEY SILT
- GRAVELLY SILT
- SILT
- FILL
- CLAYEY SAND
- SILTY CLAY
- SILTY SAND
- CLAYEY GRAVEL
- SAND
- GRAVEL
- CONCRETE
- GRAVELLY CLAY
- SANDY GRAVEL

PROJECT UNIT

- FILL
- TERTIARY BRIGHTON GROUP
- GELLIBRAND MARL
- QUATERNARY SANDS

H 1:4000
0 40 80 120 160 200m
V 1:400
0 4 8 12 16 20m
Coord.System: MGA94 Height Datum: AHD

drawn	**LM / RIH**
approved	**KJ**
date	**11/04/2017**
scale	**H 1:4000 V 1:400**
original size	**A3**

coffey
A TETRA TECH COMPANY

client: Metro Trains Melbourne

project: LCRP-CTF
Cheltenham to Frankston

title: **LONGITUDINAL CROSS SECTION ID18 - EDITHVALE ROAD, EDITHVALE**

project no: GEOTABTF10294AA | fig no: **FIGURE 2** | rev:

\\ABTFS01.comp.coffey.com.au\Data$\GEOTPROJ\GEOTABTF\10200\GEOTABTF10294AA - Metro Train Melbourne - Cheltenham to Frankston\CAD\CrossSections\10294AA_GRA004_ID18_XS.ai _1
CDF_0_9_06_LIBRARY GLB Fence C:\F FENCE ASL GEOTABTF10294AA DO NOT REPLACE (4).GPJ DWG36192.GDW 12/12/2016 10:22