EB21_DH301_P

Aquifer Testing – Slug Testing Record

Eastern Busway

Project Information		
Project Name:	Eastern Busway	
Project Number:	60644113	
Project Location:	242 Ti Rakau Drive	
Client:	Auckland Transport	
Monitoring Instrument:	LevelSCOUT	
Serial Number:	11200165	
Transducer Recording Interval:	5	Sec
Memory Duration:	2.9	Days
Transducer Depth (m bgl):	5.5	
Field work Staff:	GS/SK	

Well Information	
SWL Before Test (m bgl):	3.18
Slug Volume (mm³):	2002765
Slug Install Depth (m bgl):	4.50
Manual Dip of Piezo Base (m bgl):	7.2
PVC Collar depth from GL (mm):	0.12
Casing Diameter (mm):	50
Borehole Diameter (mm):	96
Sand Pack Interval (m):	3.4-7.8
Screened Interval (m):	4.0-7.0
Transducer Setting after Testing:	15min/ 520 days

Falling Head Test
Comments
Transducer installed to 5.5m, 8/03/2023.
Reset for slug testing at 9:13, 14/03/2023
Slug 3 installed to 4.5m bgl at 9:17, 14/03/2023

Rising Head Test
Comments
Slug pulled at 13:50, 15/03/2023. Approx half memory remaining.
Approximately 80% of static from 14/03/2023.
Transducer set to long term monitoring (15 min) at 15:35, 16/03/2023.
Battery after slug testing at 26%.

Slug Test Data

Date/ Time	SWL (m bgl)
14/03/2023 9:01	3.18
14/03/2023 9:10	3.19
14/03/2023 9:13	3.18
14/03/2023 9.17	2.52
14/03/2023 9.18	2.57
14/03/2023 9.19	2.66
14/03/2023 9.20	2.69
14/03/2023 9.21	2.70
14/03/2023 9.22	2.72
14/03/2023 9.27	2.76
14/03/2023 9.32	2.78
14/03/2023 9.37	2.78
15/03/2023 8:05	3.04
15/03/2023 8:10	3.04
15/03/2023 13:35	3.05
15/03/2023 13:41	3.06
15/03/2023 13:37	3.06

Slug Test Data

Date/ Time	SWL (m bgl)
15/03/2023 13:50	3.72
15/03/2023 13:51	3.71
15/03/2023 13:52	3.71
15/03/2023 13:53	3.70
15/03/2023 13:54	3.70
15/03/2023 13:55	3.69
15/03/2023 14:00	3.68
15/03/2023 14:05	3.66
15/03/2023 14:10	3.65
16/03/2023 15:28	3.11

EB21_DH303_P

Aquifer Testing – Slug Testing Record

Eastern Busway

Project Information	
Project Name:	Eastern Busway
Project Number:	60644113
Project Location:	254 Ti Rakau Dr
Client:	Auckland Transport
Monitoring Instrument:	Level Scout 2X
Serial Number:	0521103
Field work Staff:	GS/VC

Well Information	
SWL Before Test (m bgl):	4
Slug Volume (mm³):	2022400
PVC Collar (m bgl):	0.08
Casing Diameter (mm):	50
Borehole Diameter (mm):	122
Sand Pack Interval (m):	5.6-8.4
Screened Interval (m):	6.0-8.0

Falling Head Test
Comments
Base of piezo screen dipped at 8.17m bgl. Muddy.
Transducer installed to 7.58m bgl at 08:13, 1/11/2021.
Recording interval 5 seconds for 5.7 days.
Slug 1 installed to 6.58m bgl at 8:20, 1/11/2021.
40cm of slack string on slug - likely caught on slots.

Rising Head Test
Comments
Slug pulled at 7:43, 02/11/2021.
Transducer set to long term monitoring (15 minutes) 12:13, 02/11/2021.

Slug Test Data	
Date/ Time	**SWL (m bgl)**
1/11/2021 7:45	4.00
1/11/2021 7:56	4.02
1/11/2021 8:14	4.00
1/11/2021 8:20	3.30
1/11/2021 8:21	3.30
1/11/2021 8:22	3.30
1/11/2021 8:23	3.31
1/11/2021 8:24	3.31
1/11/2021 8:29	3.34
1/11/2021 8:34	3.37
1/11/2021 8:39	3.39
2/11/2021 7:40	4.00
2/11/2021 7:42	4.00

Slug Test Data	
Date/ Time	**SWL (m bgl)**
2/11/2021 7:43	4.70
2/11/2021 7:44	4.68
2/11/2021 7:45	4.65
2/11/2021 7:46	4.62
2/11/2021 7:47	4.60
2/11/2021 7:48	4.57
2/11/2021 7:53	4.48
2/11/2021 7:58	4.41
2/11/2021 8:03	4.35
2/11/2021 12:05	4.05
2/11/2021 12:13	4.03

EB21_DH305_P

Aquifer Testing – Slug Testing Record

Eastern Busway

Project Information

Project Name:	Eastern Busway	
Project Number:	60644113	
Project Location:	China Town	
Client:	Auckland Transport	
Monitoring Instrument:	LevelScout2x	
Serial Number:	5220021	
Transducer Recording Interval:	5	s
Memory Duration:	5.75	Days
Transducer Depth (m bgl):	6.95	
Field work Staff:	GS/IR	

Well Information

SWL Before Test (m bgl):	5.67
Slug Volume (mm³):	628319
Slug Install Depth (m bgl):	6.50
Manual Dip of Piezo Base (m bgl):	6.97
PVC Collar depth from GL (m):	0.1
Casing Diameter (mm):	50
Borehole Diameter (mm):	96.1
Sand Pack Interval (m):	4.9-7.9
Screened Interval (m):	5.4-7.4
Transducer Setting after Testing:	15 min/1040 days

Falling Head Test

Comments
Base dipped at 7.00m, drillers log notes 7.4m Base hard, some silt.
Screen partially saturated. Not enough water for 1m slug, used 1/2m.
Trandsucer installed at 12:55, 4/07/2022.
FHT did not return to static, limited time on property.

Rising Head Test

Comments
Limited time at property. Pulled slug anyway.
Set to long term monitoring. May need to repeat test with more time on property.

Slug Test Data

Date/ Time	SWL (m bgl)
4/07/2022 12:10	5.70
4/07/2022 12:59	5.67
4/07/2022 13:04	5.67
4/07/2022 13:05	5.48
4/07/2022 13:06	5.48
4/07/2022 13:07	5.48
4/07/2022 13:08	5.48
4/07/2022 13:09	5.48
4/07/2022 13:10	5.48
4/07/2022 13:15	5.48
4/07/2022 13:20	5.48
4/07/2022 13:25	5.48
5/07/2022 14:43	5.59
5/07/2022 14:49	5.59

Slug Test Data

Date/ Time	SWL (m bgl)
5/07/2022 14:50	5.79
5/07/2022 14:51	5.77
5/07/2022 14:52	5.77
5/07/2022 14:53	5.77
5/07/2022 14:54	5.77
5/07/2022 14:55	5.77
5/07/2022 15:00	5.77
5/07/2022 15:05	5.76
5/07/2022 15:10	5.76
5/07/2022 16:58	5.76

EB21_DH308_P

Aquifer Testing – Slug Testing Record

Eastern Busway

Project Information		
Project Name:	Eastern Busway	
Project Number:	60644113	
Project Location:	China Town	
Client:	Auckland Transport	
Monitoring Instrument:	LevelScout2x	
Serial Number:	5220033	
Transducer Recording Interval:	5	s
Memory Duration:	5.75	Days
Transducer Depth (m bgl):	10.85	
Field work Staff:	GS/IR	

Well Information	
SWL Before Test (m bgl):	6.68
Slug Volume (mm³):	3
Slug Install Depth (m bgl):	8.50
Manual Dip of Piezo Base (m bgl):	15.62
PVC Collar depth from GL (m):	0.09
Casing Diameter (mm):	50
Borehole Diameter (mm):	96.1
Sand Pack Interval (m):	12.3-16.0
Screened Interval (m):	13.0-15.5
Transducer Setting after Testing:	15min/ 1040 days

Falling Head Test
Comments
Transducer reset for slug testing 10:12, 5/12/2022.
Transducer at 10.85m. Repeat slug test from July.
Slug dropped 10:15, 5/12/2022.

Rising Head Test
Comments
Slug pulled 16:40, 5/12/2022.
Water level has risen slightly above static at 12:54, 6/12/2022
Transducer reset for long-term 16:12, 6/12/2022.

Slug Test Data	
Date/ Time	**SWL (m bgl)**
5/12/2022 9:54	6.68
5/12/2022 10:13	6.67
5/12/2022 10:15	5.98
5/12/2022 10:16	5.98
5/12/2022 10:17	5.99
5/12/2022 10:18	6.00
5/12/2022 10:19	6.01
5/12/2022 10:20	6.02
5/12/2022 10:25	6.05
5/12/2022 10:30	6.10
5/12/2022 10:35	6.13
5/12/2022 11:20	6.33
5/12/2022 15:51	6.63
5/12/2022 16:30	6.65

Slug Test Data	
Date/ Time	**SWL (m bgl)**
5/12/2022 16:40	7.37
5/12/2022 16:41	7.32
5/12/2022 16:42	7.30
5/12/2022 16:43	7.28
5/12/2022 16:44	7.26
5/12/2022 16:45	7.25
5/12/2022 16:50	7.18
5/12/2022 16:55	7.12
5/12/2022 17:00	7.06
6/12/2022 12:54	6.63
6/12/2022 13:00	6.63
6/12/2022 13:15	6.63
6/12/2022 15:20	6.64
6/12/2022 16:06	6.63

EB21_DH308A_P

Aquifer Testing – Slug Testing Record

Eastern Busway

Project Information

Project Name:	Eastern Busway	
Project Number:	60644113	
Project Location:	China Town	
Client:	Auckland Transport	
Monitoring Instrument:	LevelScout2x	
Serial Number:	5220033	
Transducer Recording Interval:	5	s
Memory Duration:	5.75	Days
Transducer Depth (m bgl):	7.3	
Field work Staff:	GS/IR	

Well Information

SWL Before Test (m bgl):	6.23
Slug Volume (mm³):	2022400
Slug Install Depth (m bgl):	5.60
Manual Dip of Piezo Base (m bgl):	7.45
PVC Collar depth from GL (m):	0.09
Casing Diameter (mm):	50
Borehole Diameter (mm):	96.1
Sand Pack Interval (m):	5.0-8.0
Screened Interval (m):	5.5-7.5
Transducer Setting after Testing:	15min/ 1040 days

Falling Head Test

Comments
Transducer installed for slug testing at 9:43, 4/07/2022.
Dropped slug 1, dip tape stopped working.
Test restarted with new dip tape.
Raining on 5/07/2022, water level increased.

Rising Head Test

Comments
Had to pull slug, even though SWL has changed. Limited access to site.
Heavy rain.
Set to LTM 16:55, 05/07/2022.

Slug Test Data

Date/ Time	SWL (m bgl)
4/07/2022 8:02	4.27
4/07/2022 9:45	4.26
4/07/2022 9:52	4.26
4/07/2022 11:53	4.23
4/07/2022 13:48	4.23
4/07/2022 13:55	3.54
4/07/2022 13:56	3.57
4/07/2022 13:57	3.60
4/07/2022 13:58	3.61
4/07/2022 13:59	3.63
4/07/2022 14:00	3.65
4/07/2022 14:05	3.73
4/07/2022 14:10	3.80
4/07/2022 14:15	3.86
5/07/2022 13:30	3.77
5/07/2022 14:02	3.73
5/07/2022 14:11	3.73
5/07/2022 14:14	3.73

Slug Test Data

Date/ Time	SWL (m bgl)
5/07/2022 14:15	4.42
5/07/2022 14:16	4.42
5/07/2022 14:17	4.38
5/07/2022 14:18	4.36
5/07/2022 14:19	4.35
5/07/2022 14:20	4.33
5/07/2022 14:25	4.27
5/07/2022 14:30	4.20
5/07/2022 14:35	4.15
5/07/2022 16:51	3.78

EB21_DH308B

Aquifer Testing – Slug Testing Record

Eastern Busway

Project Information		
Project Name:	Eastern Busway	
Project Number:	60644113	
Project Location:	China Town	
Client:	Auckland Transport	
Monitoring Instrument:	LevelScout2x	
Serial Number:	5220022	
Transducer Recording Interval:	15	Min
Memory Duration:	1040	Days
Transducer Depth (m bgl):	4.4	
Field work Staff:	GS/IR	

Well Information	
SWL Before Test (m bgl):	4.1
Slug Volume (mm³):	NA
Slug Install Depth (m bgl):	NA
Manual Dip of Piezo Base (m bgl)	4.47
PVC Collar depth from GL (m):	0.17
Casing Diameter (mm):	50
Borehole Diameter (mm):	96.1
Sand Pack Interval (m):	1.7-5.0
Screened Interval (m):	2.0-4.5
Transducer Setting after Testing:	15min/ 1040 days

Falling Head Test
Comments
Not enough water for slug testing. Transducer installed for LTM.

Rising Head Test
Comments

Slug Test Data	
Date/ Time	**SWL (m bgl)**
4/07/2022 8:07	4.10

Slug Test Data	
Date/ Time	**SWL (m bgl)**

DH309_P

Aquifer Testing – Slug Testing Record

Eastern Busway

Project Information		
Project Name:	Eastern Busway	
Project Number:	60644113	
Project Location:	207 Burswood Drive	
Client:	Auckland Transport	
Monitoring Instrument:	LevelScout 2x	
Serial Number:	5220032	
Transducer Recording Interval:	5	Sec
Memory Duration:	5.7	Days
Transducer Depth (m bgl):	5.87	
Field work Staff:	GS/IR	

Well Information	
SWL Before Test (m bgl):	3.87
Slug Volume (mm³):	2022400
Slug Install Depth (m bgl):	5.24
Manual Dip of Piezo Base (m bgl):	6.14
PVC Collar depth from GL (mm):	0.12
Casing Diameter (mm):	50
Borehole Diameter (mm):	96.1
Sand Pack Interval (m):	1.8-6.3
Screened Interval (m):	2.0-6.0
Transducer Setting after Testing:	15min/ 1040 days

Falling Head Test
Comments
Transducer installed 29/09/22, 13:00 set to long term monitoring.
Transducer reset to 5s interval for slug testing 14/10/2022, 9:40.
Screen partially saturated.
Slug 1 installed to 5.25m, 14/10/2022 9:45

Rising Head Test
Comments
Slug pulled 17/10/2022, 8:40.
Reset transducer to long term monitoring. No property access tomorrow. Close to equilibrium.

Slug Test Data	
Date/ Time	**SWL (m bgl)**
14/10/2022 9:08	3.87
14/10/2022 9:27	3.87
14/10/2022 9:41	3.87
14/10/2022 9:45	3.58
14/10/2022 9:46	3.56
14/10/2022 9:47	3.56
14/10/2022 9:48	3.56
14/10/2022 9:49	3.56
14/10/2022 9:50	3.56
14/10/2022 9:55	3.57
14/10/2022 10:00	3.57
14/10/2022 10:05	3.57
14/10/2022 11:00	3.62
14/10/2022 12:30	3.66
17/10/2022 8:39	3.87

Slug Test Data	
Date/ Time	**SWL (m bgl)**
17/10/2022 8:40	4.29
17/10/2022 8:41	4.23
17/10/2022 8:42	4.22
17/10/2022 8:43	4.22
17/10/2022 8:44	4.22
17/10/2022 8:45	4.21
17/10/2022 8:50	4.19
17/10/2022 8:55	4.19
17/10/2022 9:00	4.18
17/10/2022 12:23	4.01
17/10/2022 16:49	3.94

DH311_P

Aquifer Testing – Slug Testing Record

Eastern Busway

Project Information		
Project Name:	Eastern Busway	
Project Number:	60644113	
Project Location:	207 Burswood Drive	
Client:	Auckland Transport	
Monitoring Instrument:	LevelScout 2x	
Serial Number:	5220024	
Transducer Recording Interval:	5	Sec
Memory Duration:	5.75	Days
Transducer Depth (m bgl):	9.7	
Field work Staff:	IR/AR	

SWL Before Test (m bgl):	2.69
Slug Volume (mm³):	2002765
Slug Install Depth (m bgl):	6.70
Manual Dip of Piezo Base (m bgl):	10.07
PVC Collar depth from GL (mm):	0.19
Casing Diameter (mm):	50
Borehole Diameter (mm):	96.1
Sand Pack Interval (m):	6.5-10.2
Screened Interval (m):	6.9-9.9
Transducer Setting after Testing:	15min/ 1040 days

Falling Head Test

Comments

Access blocked during prior test and we were unable to finish testing 14/10/22. Repeated test 28/10/2022.
Transducer reset for slug testing 13:01, 28/10/2022.
Slug 3 dropped 13:05, 28/10/2022.

Rising Head Test

Comments

Slug pulled 16:25, 28/10/2022.
Transducer reset for long term monitoring 08:20, 31/10/2022.

Slug Test Data

Date/ Time	SWL (m bgl)
28/10/2022 12:45	2.76
28/10/2022 12:50	2.76
28/10/2022 12:55	2.76
28/10/2022 13:05	2.09
28/10/2022 13:06	2.10
28/10/2022 13:07	2.11
28/10/2022 13:08	2.12
28/10/2022 13:09	2.13
28/10/2022 13:10	2.15
28/10/2022 13:15	2.22
28/10/2022 13:20	2.24
28/10/2022 13:25	2.28
28/10/2022 16:05	2.68
28/10/2022 16:10	2.68
28/10/2022 16:15	2.68
28/10/2022 16:20	2.68

Slug Test Data

Date/ Time	SWL (m bgl)
28/10/2022 16:25	3.35
28/10/2022 16:26	3.33
28/10/2022 16:27	3.31
28/10/2022 16:28	3.30
28/10/2022 16:29	3.28
28/10/2022 16:30	3.27
28/10/2022 16:35	3.20
28/10/2022 16:40	3.15
28/10/2022 16:45	3.10
31/10/2022 8:00	2.65
31/10/2022 8:05	2.65
31/10/2022 8:05	2.65

EB21_DH318_P

Aquifer Testing – Slug Testing Record

Eastern Busway

Project Information

Project Name:	Eastern Busway	
Project Number:	60644113	
Project Location:	26 Burswood Drive	
Client:	Auckland Transport	
Monitoring Instrument:	LevelSCOUT	
Serial Number:	11200160	
Transducer Recording Interval:	5	Sec
Memory Duration:	2.9	Days
Transducer Depth (m bgl):	5.7	
Field work Staff:	GW/ZO'L	

Well Information

SWL Before Test (m bgl):	2.06
Slug Volume (mm³):	2022400
Slug Install Depth (m bgl):	4.00
Manual Dip of Piezo Base (m bgl):	7.9
PVC Collar depth from GL (mm):	0.15
Casing Diameter (mm):	50
Borehole Diameter (mm):	96
Sand Pack Interval (m):	4.2-8.3
Screened Interval (m):	4.8-7.8
Transducer Setting after Testing:	15min/520days

Falling Head Test

Comments
Transducer installed to 5.7m on 08:00, 1/03/2023.
Reset for slug testing at 08:11, 29/03/2023
Slug 1 installed to 4.0m at 08:15, 29/03/2023.
Transducer to run out of memory at 3am, 1/04/2023.
At approximately 70% dissipation. Slug to be pulled anyway to reset transducer. Will start rising head test then download and reset transducer as response is very slow.

Rising Head Test

Comments
Slug pulled 13:50, 31/03/2023.
Transducer pulled at 2:15 31/03/2023 to reset memory.
Reset and returned 14:21, 31/03/2023
Test until transducer runs out of battery. Will reset 5/3/23 to LTM.
Transducer at 18.5% battery. Swapped to 111200152 32.5% battery
Reset to 15 min, 520 days at 8:35 5/4/2023

Slug Test Data

Date/ Time	SWL (m bgl)
29/03/2023 7:50	2.06
29/03/2023 7:57	2.08
29/03/2023 8:13	2.08
29/03/2023 8:15	1.42
29/03/2023 8:16	1.43
29/03/2023 8:17	1.44
29/03/2023 8:18	1.44
29/03/2023 8:19	1.44
29/03/2023 8:20	1.44
29/03/2023 8:25	1.44
29/03/2023 8:30	1.46
29/03/2023 8:35	1.46
30/03/2023 10:59	1.78
30/03/2023 11:27	1.78
31/03/2023 13:31	1.89
31/03/2023 13:45	1.89

Slug Test Data

Date/ Time	SWL (m bgl)
31/03/2023 13:50	2.55
31/03/2023 13:51	2.54
31/03/2023 13:52	2.54
31/03/2023 13:53	2.54
31/03/2023 13:54	2.54
31/03/2023 13:55	2.53
31/03/2023 14:00	2.52
31/03/2023 14:05	2.51
31/03/2023 14:10	2.51
31/03/2023 14:15	2.50
31/03/2023 14:16	2.53
31/03/2023 14:17	2.53
31/03/2023 14:18	2.52
31/03/2023 14:19	2.52
31/03/2023 14:20	2.51
31/03/2023 14:21	2.51
31/03/2023 14:22	2.50
31/03/2023 14:23	2.50
31/03/2023 14:24	2.49
31/03/2023 14:25	2.49
5/04/2023 8:18	2.08

EB21_DH319_P

Aquifer Testing – Slug Testing Record

Eastern Busway

Project Information	
Project Name:	Eastern Busway
Project Number:	60644113
Project Location:	Burswood Reserve
Client:	Auckland Transport
Monitoring Instrument:	Level Scout 2x
Serial Number:	5211092
Field work Staff:	GS/IR

Well Information	
SWL Before Test (m bgl):	4.65
Slug Volume (mm³):	2032218
PVC Collar (m bgl):	0.09
Casing Diameter (mm):	50.0
Borehole Diameter (mm):	96.1
Sand Pack Interval (m):	4.9-6.9
Screened Interval (m):	5.4-6.4

Falling Head Test
Comments
Base of piezo dipped at 6.54m bgl. Silty.
Transducer at 6.40m bgl reset to 6.30m and 1s interval 8:55, 16/05/2022
Transducer was silty at 6.40m bgl.
Slug 6 installed to 5.93m bgl at 9:00, 16/05/2022.
Recording interval 1s/ 1.15 days

Rising Head Test
Comments
Slug pulled at 12:15, 16/05/2022
Set to long term monitoring (15min/1040 days) 10:19, 18/05/22.

Slug Test Data	
Date/ Time	**SWL (m bgl)**
16/05/2022 8:28	4.65
16/05/2022 8:39	4.65
16/05/2022 8:56	4.65
16/05/2022 9:00	3.97
16/05/2022 9:01	3.99
16/05/2022 9:02	4.02
16/05/2022 9:03	4.04
16/05/2022 9:04	4.06
16/05/2022 9:05	4.08
16/05/2022 9:10	4.20
16/05/2022 9:15	4.26
16/05/2022 9:20	4.32
16/05/2022 12:10	4.65
16/05/2022 12:13	4.65

Slug Test Data	
Date/ Time	**SWL (m bgl)**
16/05/2022 12:15	5.33
16/05/2022 12:16	5.31
16/05/2022 12:17	5.27
16/05/2022 12:18	5.24
16/05/2022 12:19	5.21
16/05/2022 12:20	5.19
16/05/2022 12:25	5.08
16/05/2022 12:30	5.01
16/05/2022 12:35	4.94
18/05/2022 10:08	4.67

EB21_DH322_P

Aquifer Testing – Slug Testing Record

Eastern Busway

Project Information	
Project Name:	Eastern Busway
Project Number:	60644113
Project Location:	Burswood Reserve
Client:	Auckland Transport
Monitoring Instrument:	Level Scout 2x
Serial Number:	5211108
Field work Staff:	GS/SK

Well Information	
SWL Before Test (m bgl):	3.12
Slug Volume (mm³):	2002765
PVC Collar (m bgl):	0.15
Casing Diameter (mm):	50.0
Borehole Diameter (mm):	96.1
Sand Pack Interval (m):	5.6-7.7
Screened Interval (m):	6.0-7.5

Falling Head Test
Comments
Base of piezo dipped at 7.36m bgl. Slightly silty.
Transducer installed at 7.0m bgl at 10:33, 09/02/2022.
Transducer set to 1s interval for slug testing.
Slug 3 installed to 6.00m bgl at 10:40, 09/02/2022.
Slug pulled at 13:18, 10/02/2022. Transducer out of memory.
To return to complete at 5s interval.

Rising Head Test
Comments

Slug Test Data	
Date/ Time	**SWL (m bgl)**
9/02/2022 9:57	3.12
9/02/2022 10:33	3.12
9/02/2022 10:40	2.42
9/02/2022 10:41	2.42
9/02/2022 10:42	2.42
9/02/2022 10:43	2.43
9/02/2022 10:44	2.43
9/02/2022 10:45	2.43
9/02/2022 10:50	2.45
9/02/2022 10:55	2.46
9/02/2022 11:00	2.47
9/02/2022 13:17	3.03

Slug Test Data	
Date/ Time	**SWL (m bgl)**

EB21_DH326_P

Aquifer Testing – Slug Testing Record

Eastern Busway

Project Information	
Project Name:	Eastern Busway
Project Number:	60644113
Project Location:	Burswood Reserve (near Bunnings)
Client:	Auckland Transport
Monitoring Instrument:	LevelScout2x
Serial Number:	5211097
Field work Staff:	GS/IR

Well Information	
SWL Before Test (m bgl):	4.36
Slug Volume (mm³):	2022400
PVC Collar (m bgl):	0.13
Casing Diameter (mm):	50
Borehole Diameter (mm):	96.1
Sand Pack Interval (m):	3.9-7.3
Screened Interval (m):	4.3-6.8

Falling Head Test
Comments
Base of piezo dipped at 6.86m bgl.
Transducer installed 6.6m bgl from initial long term monitoring.
Transducer reset to 5s interval.
Slug 1 installed to 5.9m bgl at 9:05, 13/05/2022.

Rising Head Test
Comments
Slug pulled at 10:05, 16/05/2022.
Set to long term monitoring (15 min/ 1040 days) at 10:02, 18/05/2022.

Slug Test Data	
Date/ Time	**SWL (m bgl)**
13/05/2022 8:43	4.36
13/05/2022 8:48	4.37
13/05/2022 8:57	4.37
13/05/2022 9:05	3.76
13/05/2022 9:06	3.78
13/05/2022 9:07	3.80
13/05/2022 9:08	3.81
13/05/2022 9:09	3.83
13/05/2022 9:10	3.85
13/05/2022 9:15	3.87
13/05/2022 9:20	3.93
13/05/2022 9:25	3.96

Slug Test Data	
Date/ Time	**SWL (m bgl)**
16/05/2022 10:00	4.37
16/05/2022 10:03	4.37
16/05/2022 10:05	4.74
16/05/2022 10:06	4.72
16/05/2022 10:07	4.70
16/05/2022 10:08	4.69
16/05/2022 10:09	4.68
16/05/2022 10:10	4.67
16/05/2022 10:15	4.63
16/05/2022 10:20	4.61
16/05/2022 10:25	4.60
18/05/2022 9:50	4.37

DH328_P

Aquifer Testing – Slug Testing Record

Eastern Busway

Project Information

Project Name:	Eastern Busway	
Project Number:	60644113	
Project Location:	29 Dulwich Pl	
Client:	Auckland Transport	
Monitoring Instrument:	LevelScout 2x	
Serial Number:	5211091	
Transducer Recording Interval:	5	Sec
Memory Duration:	5.7	Days
Transducer Depth (m bgl):	10.4	
Field work Staff:	GS/IR	

Well Information

SWL Before Test (m bgl):	1.33
Slug Volume (mm³):	628319
Slug Install Depth (m bgl):	3.00
Manual Dip of Piezo Base (m bgl):	10.57
PVC Collar depth from GL (mm):	0.14
Casing Diameter (mm):	50
Borehole Diameter (mm):	96
Sand Pack Interval (m):	9.2-10.57
Screened Interval (m):	9.0-10.90
Transducer Setting after Testing:	15min/ 1040 days

Falling Head Test

Comments
Water in toby, water ran down PVC when lid removed.
Transducer reset for slug testing from initial long-term monitoring.
Transducer reset for slug testing 11:34, 22/11/2022
Slug dopped 12:58, 22/11/2022.
Pvc cracked at top, 1m slug wouldn't fit. Used 1/2 m slug instead.

Rising Head Test

Comments
Returned 23/11/2022. Showers overnight and in morning.
Toby infilled. Ground water above pvc pipe in toby.
Slug pulled 23/11/2022.
No property access until Monday 28/11/2022.
Transducer reset to long-term monitoring at 12:48, 28/11/2022.
Data to be checked, testing may need to be repeated due to water
level fluctuations and toby infill.

Slug Test Data

Date/ Time	SWL (m bgl)
22/11/2022 10:48	1.32
22/11/2022 10:55	1.35
22/11/2022 10:55	1.35
22/11/2022 11:36	1.33
22/11/2022 11:44	1.33
22/11/2022 12:55	1.34
22/11/2022 12:58	1.03
22/11/2022 12:59	1.03
22/11/2022 13:00	1.03
22/11/2022 13:01	1.03
22/11/2022 13:02	1.03
22/11/2022 13:03	1.03
22/11/2022 13:08	1.03
22/11/2022 13:13	1.03
22/11/2022 13:18	1.03
23/11/2022 17:13	0.10

Slug Test Data

Date/ Time	SWL (m bgl)
23/11/2022 17:15	0.26
23/11/2022 17:16	0.26
23/11/2022 17:17	0.25
23/11/2022 17:18	0.23
23/11/2022 17:19	0.22
23/11/2022 17:20	0.22
23/11/2022 17:25	0.20
23/11/2022 17:30	0.19
23/11/2022 17:35	0.17
28/11/2022 12:20	0.11

DH328A_P

Aquifer Testing – Slug Testing Record

Eastern Busway

Project Information		
Project Name:	Eastern Busway	
Project Number:	60644113	
Project Location:	29 Dulwich Place	
Client:	AT	
Monitoring Instrument:	Levelscout 2x	
Serial Number:	5220018	
Transducer Recording Interval:	1	Sec
Memory Duration:	1.15	Days
Transducer Depth (m bgl):	5.5	
Field work Staff:	IR, GS	

Well Information	
SWL Before Test (m bgl):	0.56
Slug Volume (mm³):	628319
Slug Install Depth (m bgl):	1.50
Manual Dip of Piezo Base (m bgl):	5.59
PVC Collar depth from GL (mm):	0.18
Casing Diameter (mm):	50
Borehole Diameter (mm):	96
Sand Pack Interval (m):	2.8-5.6
Screened Interval (m):	3.0-5.5
Transducer Setting after Testing:	15min/ 1040 days

Falling Head Test
Comments
Water too high for 1 m slug, 1/2 m slug used.
Testing repeated at 1s interval after 5s interval.
Transducer installed at 12:20, 22/11/2022.
Slug dropped 12:25, 22/11/2022.

Rising Head Test
Comments
Slug pulled 12:35, 22/11/2022.
Transducer reset for long-term monitoring at 13:08, 22/11/2022.
Went to check water level 28/11/2022, water in toby. Lifted pvc cap
water went down pvc at 12:38, 28/11/2022.

Slug Test Data

Date/ Time	SWL (m bgl)
22/11/2022 12:20	0.56
22/11/2022 12:23	0.56
22/11/2022 12:25	0.28
22/11/2022 12:26	0.40
22/11/2022 12:27	0.48
22/11/2022 12:28	0.53
22/11/2022 12:29	0.54
22/11/2022 12:30	0.55
22/11/2022 12:34	0.56

Slug Test Data

Date/ Time	SWL (m bgl)
22/11/2022 12:35	0.86
22/11/2022 12:36	0.71
22/11/2022 12:37	0.63
22/11/2022 12:38	0.60
22/11/2022 12:39	0.59
22/11/2022 12:40	0.56
22/11/2022 12:45	0.56
28/11/2022 12:46	0.61