

METROLINK

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A19.3b

**Groundwater
Monitoring
Record Sheets
Round 2 2021**

Groundwater Monitoring Record Sheet

METROLINK

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The Tecpro Building,
Clonsaugh Business & Technology Park,
Dublin 17, Ireland.

T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	29/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	AWN01(S)	AZ Zone	AZ-3
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	6.34	Total depth (mbtoc)	18
SWL (mBGL)	6.04	S/P recess/above g/l (m)	0.3
General location details:	Agricultural land south of Dublin Airport		
GPS co-ordinates (ITM):	715696, 742154		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	29/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.9	11.9	11.9
pH	7.78	7.78	7.78
Electrical Conductivity (uS/cm)	869	869	869
TDS (ppt)	0.61	0.61	0.61

Water Sample Observations (field)				
Colour	Brown to dark brown	Capped at ground level	Y / N	Yes, above ground
Odour Present	No	Other field related:		
Sediment/Precipitate	Slight	Active farming field		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Agricultural	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-4673
Yes			

Groundwater Monitoring Record Sheet

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T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	29/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	AWN02(D)	AZ Zone	AZ-3
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	10.54	Total depth (mbtoc)	28.35
SWL (mBGL)	10.25	S/P recess/ above g/l (m)	0.29
General location details:	Agricultural land south of Dublin Airport		
GPS co-ordinates (ITM):	715427, 741788		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	29/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	12.6	12.6	12.6
pH	8.15	8.15	8.15
Electrical Conductivity (uS/cm)	736	736	736
TDS (ppt)	0.52	0.52	0.52

Water Sample Observations (field)				
Colour	Merky to light brown	Capped at ground level	Y / N	Yes, above ground
Odour Present	Slight organic	Other field related:		
Sediment/Precipitate	Yes	Localised fly tipping noted during site visit		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Agricultural	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-4673
Yes			

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Clonsilla Business & Technology Park,
Dublin 17, Ireland.

T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	25/03/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH04	AZ Zone	AZ-2
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	4.51	Total depth (mbtoc)	30
SWL (mBGL)	4.60	S/P recess/above g/l (m)	-0.09
General location details:	T2 surface car park at Dublin Airport		
GPS co-ordinates (ITM):	716965.57, 743512.23		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	22/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	12.5	12.5	12.5
pH	7.29	7.29	7.29
Electrical Conductivity (uS/cm)	1,038	1,038	1,038
TDS (ppt)	0.73	0.73	0.73

Water Sample Observations (field)				
Colour	Merky to turbid	Capped at ground level	Y / N	Yes, flush
Odour Present	No	Other field related:		
Sediment/Precipitate	Slight	The T2 surface car park is close to fire fighting activities area in the Dublin Airport		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-4456
Yes			

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The Tecpro Building,
Clonshaugh Business & Technology Park,
Dublin 17, Ireland.

T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

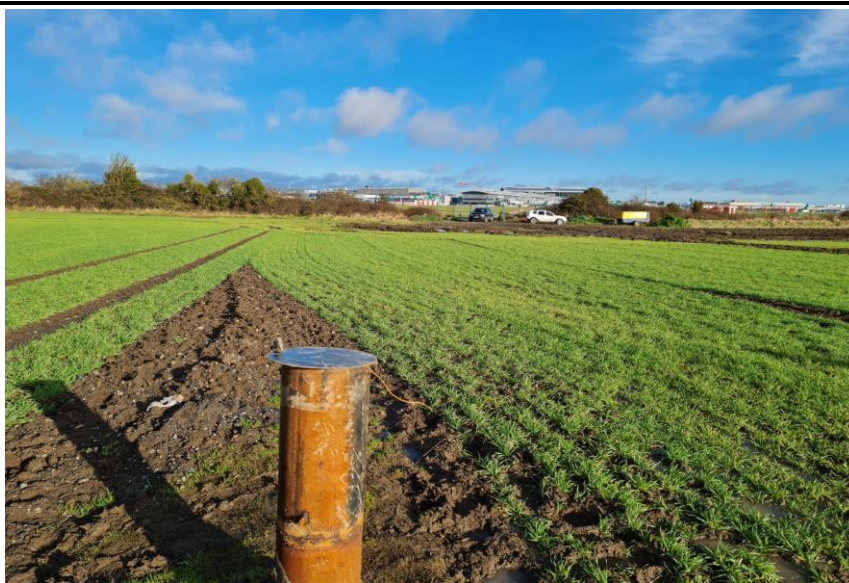
Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	29/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH06A	AZ Zone	AZ-3
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	6.11	Total depth (mbtoc)	22.5
SWL (mBGL)	5.68	S/P recess/above g/l (m)	0.43
General location details:	Agricultural land just south of the Dublin Airport and along the old Airport Road		
GPS co-ordinates (ITM):	716322.45, 742232.9		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	29/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	12.3	12.3	12.3
pH	7.92	7.92	7.92
Electrical Conductivity (uS/cm)	891	891	891
TDS (ppt)	0.60	0.60	0.60

Water Sample Observations (field)				
Colour	Clear	Capped at ground level	Y / N	Capped above ground
Odour Present	No	Other field related:		
Sediment/Precipitate	No			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Agricultural	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-4673
Yes			

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W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	29/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH06W	AZ Zone	AZ-3
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	5.93	Total depth (mbtoc)	45
SWL (mBGL)	5.66	S/P recess/above g/l (m)	0.27
General location details:	Agricultural land just south of the Dublin Airport and along the old Airport Road		
GPS co-ordinates (ITM):	71632.43, 742224.11		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	29/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	12.4	12.4	12.4
pH	7.89	7.89	7.89
Electrical Conductivity (uS/cm)	727	727	727
TDS (ppt)	0.51	0.51	0.51

Water Sample Observations (field)				
Colour	Clear	Capped at ground level	Y / N	Capped above ground
Odour Present	Yes, organic/ rotten eggs	Other field related:		
Sediment/Precipitate	No			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Access constraints:
Agricultural	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-4673

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E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	12/03/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH12	AZ Zone	AZ-3
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	10.23	Total depth (mbtoc)	28.5
SWL (mBGL)	10.13	S/P recess/above g/l (m)	0.1
General location details:	Greenfield / parkland		
GPS co-ordinates (ITM):	715308.61,740710.89		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.0	11.0	11.0
pH	7.38	7.38	7.38
Electrical Conductivity (uS/cm)	737	737	737
TDS (ppt)	0.48	0.48	0.48

Water Sample Observations (field)			
Colour	Clear	Capped at ground level	Y / N Capped above ground
Odour Present	No	Other field related:	
Sediment/Precipitate	Very Slight		
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Greenfield / parkland	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-3800

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The Tecpro Building,
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Dublin 17, Ireland.

T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	15/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH17	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	3.90	Total depth (mbtoc)	31.6
SWL (mBGL)	4.04	S/P recess/ above g/l (m)	-0.14
General location details:	Soccer park / pitch (Home Farm)		
GPS co-ordinates (ITM):	715433.93, 737253.02		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& MA
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	15/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	12.8	12.8	12.8
pH	7.45	7.45	7.45
Electrical Conductivity (uS/cm)	887	887	887
TDS (ppt)	0.63	0.63	0.63

Water Sample Observations (field)			
Colour	Brown to merky	Capped at ground level	Y / N Capped flush to the ground
Odour Present	No	Other field related:	
Sediment/Precipitate	Yes	Slow to moderate recharge noted.	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Recreational / parkland	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-3800

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The Tecpro Building,
Clonsaugh Business & Technology Park,
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T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	16/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH18(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	7.10	Total depth (mbtoc)	15
SWL (mBGL)	7.14	S/P recess/ above g/l (m)	-0.04
General location details:	Urban - derlict factory close to railway line		
GPS co-ordinates (ITM):	715055.26, 736378.66		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	15/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	13.10	13.10	13.10
pH	7.34	7.34	7.34
Electrical Conductivity (uS/cm)	1,270	1,270	1,270
TDS (ppt)	0.82	0.82	0.82

Water Sample Observations (field)				
Colour	Clear to merky / turbid	Capped at ground level	Y / N	Yes, flush
Odour Present	Slight organic	Other field related:		
Sediment/Precipitate	Slight			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Access constraints:
Urban, derlict factory and house	Yes, gated entrance

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-4144

Groundwater Monitoring Record Sheet

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awnconsulting

The Tecpro Building,
Clonsaugh Business & Technology Park,
Dublin 17, Ireland.

T: +353 1 847 4220
F: +353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	16/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH19A	AZ Zone	AZ-4
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	9.47	Total depth (mbtoc)	18.5
SWL (mBGL)	9.62	S/P recess/above g/l (m)	-0.15
General location details:	Urban - car park behind the Brian Boru pub		
GPS co-ordinates (ITM):	714960.6, 736410.98		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	15/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	13.3	13.3	13.3
pH	7.06	7.06	7.06
Electrical Conductivity (uS/cm)	1,064	1,064	1,064
TDS (ppt)	0.69	0.69	0.69

Water Sample Observations (field)				
Colour	Clear	Capped at ground level	Y / N	Yes, flush
Odour Present	No	Other field related:		
Sediment/Precipitate	No			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban, car park area	Access constraints:	No, groundwater monitoring location is located behind smoking area of pub
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-4144
Yes			

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awnconsulting

The Tecpro Building,
Clonsaugh Business & Technology Park,
Dublin 17, Ireland.

T: +353 1 847 4220
F: +353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

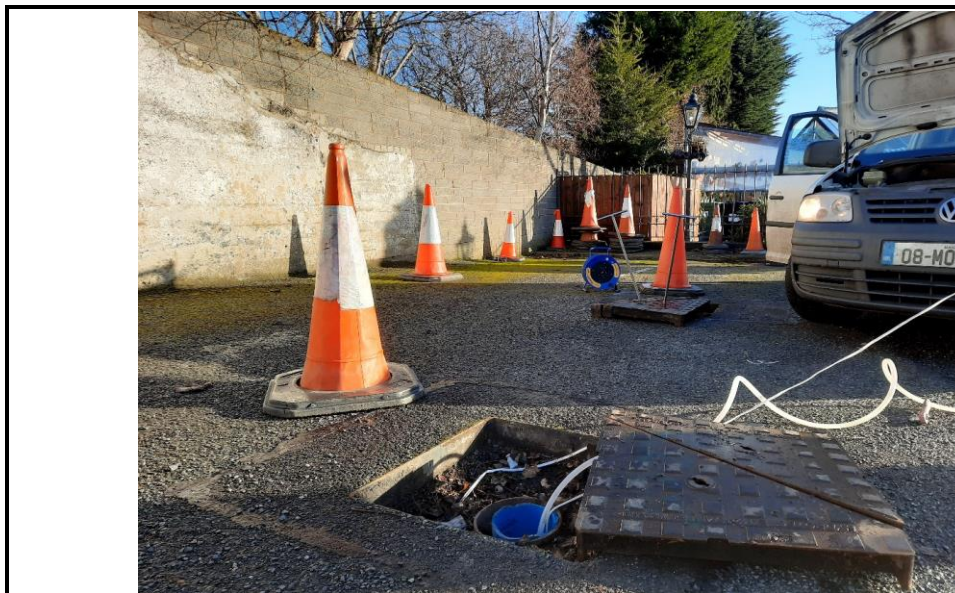
Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	16/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH19W	AZ Zone	AZ-4
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	9.46	Total depth (mbtoc)	40
SWL (mBGL)	9.56	S/P recess/above g/l (m)	-0.10
General location details:	Urban - car park behind the Brian Boru pub		
GPS co-ordinates (ITM):	714957.65, 736411.45		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	15/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	13.10	13.10	13.10
pH	7.30	7.30	7.30
Electrical Conductivity (uS/cm)	859	859	859
TDS (ppt)	0.55	0.55	0.55

Water Sample Observations (field)				
Colour	Clear to merky	Capped at ground level	Y / N	Yes, flush
Odour Present	Slight organic	Other field related:		
Sediment/Precipitate	No			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban, car park area	Access constraints:	No, groundwater monitoring location is located behind smoking area of pub
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-4144
Yes			

Groundwater Monitoring Record Sheet

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Dublin 17, Ireland.

T: +353 1 847 4220
F: +353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	16/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH20(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	9.69	Total depth (mbtoc)	15.5
SWL (mBGL)	9.70	S/P recess/above g/l (m)	-0.01
General location details:	Urban - walkway along the Royal Canal		
GPS co-ordinates (ITM):	714951.03, 736318.28		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	15/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.60	11.60	11.60
pH	7.38	7.38	7.38
Electrical Conductivity (uS/cm)	617	617	617
TDS (ppt)	0.40	0.40	0.40

Water Sample Observations (field)				
Colour	Light brown, turbid	Capped at ground level	Y / N	Yes, flush
Odour Present	Slight organic	Other field related:		
Sediment/Precipitate	Yes			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Access constraints:
Urban, walkway along the Royal Canal	No, located along Royal Canal

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-4144

Groundwater Monitoring Record Sheet

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T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	18/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH21(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	16.82	Total depth (mbtoc)	20
SWL (mBGL)	17.04	S/P recess/above g/l (m)	-0.22
General location details:	GW location located along taxi rank beside St. Joesph Church		
GPS co-ordinates (ITM):	715245.81, 735693.89		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	15/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	12.2	12.2	12.2
pH	7.37	7.37	7.37
Electrical Conductivity (uS/cm)	1,028	1,028	1,028
TDS (ppt)	0.67	0.67	0.67

Water Sample Observations (field)			
Colour	Brown to dark brown, turbid	Capped at ground level	Y / N Yes, flush
Odour Present	Slight organic	Other field related:	
Sediment/Precipitate	Yes	Pumped dry twice. Slow recharge at this location was noted.	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Urban, taxi rank	Access constraints:	No
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-4178
Yes			

Groundwater Monitoring Record Sheet

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F: + 353 1 847 4257
E: info@awnconsulting.com
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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	19/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH22(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	1.72	Total depth (mbtoc)	19
SWL (mBGL)	1.77	S/P recess/above g/l (m)	-0.05
General location details:	Moore Lane / O' Connell Street - Construction site		
GPS co-ordinates (ITM):	715712.71, 734924.57		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	15/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	12.50	12.50	12.50
pH	7.35	7.35	7.35
Electrical Conductivity (uS/cm)	934	934	934
TDS (ppt)	0.60	0.60	0.60

Water Sample Observations (field)			
Colour	Clear	Capped at ground level	Y / N Yes, flush
Odour Present	No	Other field related:	
Sediment/Precipitate	No		
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Urban, active construction site	Yes, contact project manager of the site to gain access

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-4228

Groundwater Monitoring Record Sheet

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F: + 353 1 847 4257
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W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	19/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH23A	AZ Zone	AZ-4
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	4.74	Total depth (mbtoc)	40
SWL (mBGL)	4.77	S/P recess/above g/l (m)	-0.03
General location details:	Derlict site between Moore Lane and O'Connell Street		
GPS co-ordinates (ITM):	715730.57, 734846.12		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	15/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.70	11.70	11.70
pH	7.67	7.67	7.67
Electrical Conductivity (uS/cm)	557	557	557
TDS (ppt)	0.36	0.36	0.36

Water Sample Observations (field)			
Colour	Clear	Capped at ground level	Y / N Yes, flush
Odour Present	No	Other field related:	
Sediment/Precipitate	No		
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Urban, derlict site / construction area	Yes, gated entrance with a bell

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-4228

Groundwater Monitoring Record Sheet

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The Tecpro Building,
Clonshaugh Business & Technology Park,
Dublin 17, Ireland.

T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	19/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH23W	AZ Zone	AZ-4
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	4.68	Total depth (mbtoc)	36
SWL (mBGL)	4.84	S/P recess/above g/l (m)	-0.16
General location details:	Derlict site between Moore Lane and O'Connell Street		
GPS co-ordinates (ITM):	715712.5, 734843.89		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	15/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	10.30	10.30	10.30
pH	8.01	8.01	8.01
Electrical Conductivity (uS/cm)	274	274	274
TDS (ppt)	0.18	0.18	0.18

Water Sample Observations (field)			
Colour	Clear	Capped at ground level	Y / N Yes, flush
Odour Present	No	Other field related:	
Sediment/Precipitate	No		
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Urban, derlict site/ construction area	Access constraints:	Yes, gated entrance with a bell
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-4228
Yes			

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Dublin 17, Ireland.

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E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	19/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH24(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	4.71	Total depth (mbtoc)	16
SWL (mBGL)	4.73	S/P recess/above g/l (m)	-0.02
General location details:	Car parking area for Dublin Bus employees in the main office on O'Connell Street		
GPS co-ordinates (ITM):	715744.2, 734753.45		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:

Last Field Calibration	Date:	15/03/2021	Time:	-
Last Full Calibration	March_2021			

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	12.30	12.30	12.30
pH	7.96	7.96	7.96
Electrical Conductivity (uS/cm)	403	403	403
TDS (ppt)	0.26	0.26	0.26

Water Sample Observations (field)			
Colour	Clear	Capped at ground level	Y / N Yes, flush
Odour Present	No	Other field related:	
Sediment/Precipitate	No		
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Urban, car park area	Access constraints:	Yes, potter from Dublin Bus main office
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-4228
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	11/03/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH25(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	3.04	Total depth (mbtoc)	8
SWL (mBGL)	3.14	S/P recess/above g/l (m)	-0.10
General location details:	Poolbeg Street - bus standby area		
GPS co-ordinates (ITM):	716228.69, 734372.1		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:

Last Field Calibration	Date:	11/03/2021	Time:	-
Last Full Calibration	March_2021			

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	10.3	10.3	10.3
pH	7.33	7.33	7.33
Electrical Conductivity (uS/cm)	32,196	32,196	32,196
TDS (ppt)	20.93	20.93	20.93

Water Sample Observations (field)				
Colour	Brown to dark grey	Capped at ground level	Y / N	Yes, flush
Odour Present	Slight organic	Other field related:		
Sediment/Precipitate	Yes	Pumped dry three times, limited water and recharge is very slow		
Free Product	No			
Hydrocarbon Sheen	Not obvious			



Environmental setting:	Urban, roadway	Access constraints:	No, but live traffic.
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-3591
Yes			

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Dublin 17, Ireland.

T: + 353 1 847 4220
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E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	11/03/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH26CA	AZ Zone	AZ-4
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	3.89	Total depth (mbtoc)	9
SWL (mBGL)	3.97	S/P recess/above g/l (m)	-0.08
General location details:	Derlict site along Luke Lane and adjacent to train tracks		
GPS co-ordinates (ITM):	716262.56, 734334.47		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	9.71	9.71	9.71
pH	7.21	7.21	7.21
Electrical Conductivity (uS/cm)	23,205	23,205	23,205
TDS (ppt)	15.08	15.08	15.08

Water Sample Observations (field)				
Colour	Clear to slightly merky	Capped at ground level	Y / N	Yes, flush
Odour Present	Yes - strong rotten eggs	Other field related:		
Sediment/Precipitate	Slight	Strong organic odour		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban	Access constraints:	Yes, gated entrance
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-3591
Yes			

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Clonsaugh Business & Technology Park,
Dublin 17, Ireland.

T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	11/03/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH26CW	AZ Zone	AZ-4
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	4.15	Total depth (mbtoc)	36
SWL (mBGL)	4.19	S/P recess/above g/l (m)	-0.04
General location details:	Derlict site along Luke Lane and adjacent to train tracks		
GPS co-ordinates (ITM):	716264.09, 7343331.43		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.6	11.6	11.6
pH	7.34	7.34	7.34
Electrical Conductivity (uS/cm)	24,419	24,419	24,419
TDS (ppt)	15.87	15.87	15.87

Water Sample Observations (field)				
Colour	Clear to slightly merky	Capped at ground level	Y / N	Yes, flush
Odour Present	Yes - strong rotten eggs	Other field related:		
Sediment/Precipitate	No	Strong organic odour		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban	Access constraints:	Yes, gated entrance
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-3591
Yes			

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T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	24/03/2021		
Weather Conditions:	Sunny, dry and cold		
GW location ID:	NBH31	AZ Zone	AZ-4
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	4.73	Total depth (mbtoc)	37.63
SWL (mBGL)	4.90	S/P recess/above g/l (m)	-0.17
General location details:	Dartmouth Road - construction site		
GPS co-ordinates (ITM):	716097, 732476		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	22/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.8	11.8	11.8
pH	7.65	7.65	7.65
Electrical Conductivity (uS/cm)	878	878	878
TDS (ppt)	0.62	0.62	0.62

Water Sample Observations (field)				
Colour	Light brown to merky	Capped at ground level	Y / N	Flush
Odour Present	No	Other field related:		
Sediment/Precipitate	Slight	Area by borehole is clear and away from the main works of the construction site.		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban - active construction site	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-4357
Yes			

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Clonsaugh Business & Technology Park,
Dublin 17, Ireland.

T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	25/03/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH60	AZ Zone	AZ-2
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	1.31	Total depth (mbtoc)	1.40
SWL (mBGL)	1.40	S/P recess/above g/l (m)	-0.09
General location details:	T2 surface car park at Dublin Airport		
GPS co-ordinates (ITM):	716919.9, 743471.85		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	22/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	n/a	n/a	n/a
pH	n/a	n/a	n/a
Electrical Conductivity (uS/cm)	n/a	n/a	n/a
TDS (ppt)	n/a	n/a	n/a

Water Sample Observations (field)			
Colour	n/a	Capped at ground level	Y / N Yes, flush
Odour Present	n/a	Other field related:	
Sediment/Precipitate	n/a	The T2 surface car park is close to fire fighting activities area in the Dublin Airport. Damp, no sample.	
Free Product	n/a		
Hydrocarbon Sheen	n/a		



Environmental setting:	Access constraints:
Urban	None

Sample taken:	Y / N	Laboratory Report Ref:
No		

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Clonsaugh Business & Technology Park,
Dublin 17, Ireland.

T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	25/03/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH61	AZ Zone	AZ-2
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	1.99	Total depth (mbtoc)	2.12
SWL (mBGL)	2.12	S/P recess/above g/l (m)	-0.13
General location details:	T2 surface car park at Dublin Airport		
GPS co-ordinates (ITM):	716963.23, 743504.73		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	22/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	n/a	n/a	n/a
pH	n/a	n/a	n/a
Electrical Conductivity (uS/cm)	n/a	n/a	n/a
TDS (ppt)	n/a	n/a	n/a

Water Sample Observations (field)			
Colour	n/a	Capped at ground level	Y / N Yes, flush
Odour Present	n/a	Other field related:	
Sediment/Precipitate	n/a	The T2 surface car park is close to fire fighting activities area in the Dublin Airport. Dry, no sample taken.	
Free Product	n/a		
Hydrocarbon Sheen	n/a		



Environmental setting:	Urban	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	
	No		

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The Tecpro Building,
Clonshaugh Business & Technology Park,
Dublin 17, Ireland.

T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	25/03/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH62	AZ Zone	AZ-2
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	1.72	Total depth (mbtoc)	2.47
SWL (mBGL)	1.80	S/P recess/above g/l (m)	-0.08
General location details:	T2 surface car park at Dublin Airport		
GPS co-ordinates (ITM):	716992.96, 743551.69		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	22/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	10.4	10.4	10.4
pH	8.10	8.10	8.10
Electrical Conductivity (uS/cm)	1,045	1,045	1,045
TDS (ppt)	0.63	0.63	0.63

Water Sample Observations (field)				
Colour	Light brown, turbid	Capped at ground level	Y / N	Yes, flush
Odour Present	No	Other field related:		
Sediment/Precipitate	Very slight	The T2 surface car park is close to fire fighting activities area in the Dublin Airport. Minimal purge due to water volume in well bore.		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-4456
Yes			

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T: + 353 1 847 4220
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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	29/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH63	AZ Zone	AZ-4
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	DRY	Total depth (mbtoc)	3.99
SWL (mBGL)	DRY	S/P recess/above g/l (m)	-0.10
General location details:	Derlict site between Moore Lane and O'Connell Street		
GPS co-ordinates (ITM):	715732.18, 734849.17		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	29/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	n/a	n/a	n/a
pH	n/a	n/a	n/a
Electrical Conductivity (uS/cm)	n/a	n/a	n/a
TDS (ppt)	n/a	n/a	n/a

Water Sample Observations (field)			
Colour	n/a	Capped at ground level	Y / N Yes, flush
Odour Present	n/a	Other field related:	
Sediment/Precipitate	n/a	Cover observed as broken at time of monitoring	
Free Product	n/a		
Hydrocarbon Sheen	n/a		



Environmental setting:	Access constraints:
Urban, derlict site/ construction area	Yes, gated entrance with a bell

Sample taken:	Y / N	Laboratory Report Ref:
No		

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F: + 353 1 847 4257
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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	11/03/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH64	AZ Zone	AZ-4
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	2.21	Total depth (mbtoc)	4
SWL (mBGL)	2.46	S/P recess/above g/l (m)	-0.25
General location details:	Car parking lot for residents along Townsend Street and Poolbeg Street		
GPS co-ordinates (ITM):	716277.69, 734312.18		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	9.87	9.87	9.87
pH	6.96	6.96	6.96
Electrical Conductivity (uS/cm)	1,121	1,121	1,121
TDS (ppt)	0.72	0.72	0.72

Water Sample Observations (field)			
Colour	Light brown to brown, turbid	Capped at ground level	Y / N Yes, flush
Odour Present	No	Other field related:	
Sediment/Precipitate	Yes		
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Urban	Access constraints:	Yes, gated entrance
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-3591
Yes			

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Dublin 17, Ireland.

T: +353 1 847 4220
F: +353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	07/05/2021		
Weather Conditions:	Clear, slight breeze, dry		
GW location ID:	NBH72(S)	AZ Zone	AZ-1
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	1.99	Total depth (mbtoc)	6.45
SWL (mBGL)	1.64	S/P recess/above g/l (m)	0.35
General location details:	Agricultural		
GPS co-ordinates (ITM):	718705.56, 748413.29		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	07/05/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	9.4	9.4	9.4
pH	7.98	7.98	7.98
Electrical Conductivity (uS/cm)	645	645	645
TDS (ppm)	444	444	444

Water Sample Observations (field)				
Colour	Slight murky brown	Capped at ground level	Y / N	Capped above ground
Odour Present	No	Other field related:		
Sediment/Precipitate	Yes (slight)	-		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Access constraints:
Agricultural (pasture)	Yes, contact farmer for access

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT- 21-6920

Groundwater Monitoring Record Sheet

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T: +353 1 847 4220
F: +353 1 847 4257
E: info@awnconsulting.com
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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	12/03/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH73(S)	AZ Zone	AZ-3
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	7.66	Total depth (mbtoc)	10.28
SWL (mBGL)	7.34	S/P recess/ above g/l (m)	0.32
General location details:	Greenfield / parkland		
GPS co-ordinates (ITM):	715293.86, 740600.55		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	9.06	9.06	9.06
pH	7.19	7.19	7.19
Electrical Conductivity (uS/cm)	682	682	682
TDS (ppt)	0.44	0.44	0.44

Water Sample Observations (field)				
Colour	Brown to dark brown	Capped at ground level	Y / N	Capped above ground
Odour Present	No	Other field related:		
Sediment/Precipitate	Yes	Very silty water.		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Access constraints:
Greenfield / parkland	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-3800

Groundwater Monitoring Record Sheet

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The Tecpro Building,
Clonshaugh Business & Technology Park,
Dublin 17, Ireland.

T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	15/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH102(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	9.52	Total depth (mbtoc)	23.94
SWL (mBGL)	9.62	S/P recess/above g/l (m)	-0.1
General location details:	Residential on roadway		
GPS co-ordinates (ITM):	715445.38, 738601.77		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD & MA
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	15/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	12.9	12.9	12.9
pH	7.68	7.68	7.68
Electrical Conductivity (uS/cm)	805	805	805
TDS (ppt)	0.57	0.57	0.57

Water Sample Observations (field)			
Colour	Clear	Capped at ground level	Y / N Capped flush to the ground
Odour Present	Slight organic	Other field related:	
Sediment/Precipitate	Slight		
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Residential / roadway	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-3800
Yes			

Groundwater Monitoring Record Sheet

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The Tecpro Building,
Clonsaugh Business & Technology Park,
Dublin 17, Ireland.

T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	23/03/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	ABH30i	AZ Zone	AZ-4
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	5.52	Total depth (mbtoc)	29.6
SWL (mBGL)	5.82	S/P recess/above g/l (m)	-0.30
General location details:	Albert College - ballymun road side		
GPS co-ordinates (ITM):	715433, 738337		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	22/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	12.07	12.07	12.07
pH	7.28	7.28	7.28
Electrical Conductivity (uS/cm)	806	806	806
TDS (ppt)	0.52	0.52	0.52

Water Sample Observations (field)			
Colour	Clear	Capped at ground level	Y / N Yes, flush
Odour Present	No	Other field related:	
Sediment/Precipitate	No		
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Recreational / Parkland	No

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-4292

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	12/03/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH203A(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	DRY	Total depth (mbtoc)	17.9
SWL (mBGL)	DRY	S/P recess/above g/l (m)	
General location details:	Urban		
GPS co-ordinates (ITM):	715426.93, 739989.93		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	N/A	N/A	N/A
pH	N/A	N/A	N/A
Electrical Conductivity (uS/cm)	N/A	N/A	N/A
TDS (ppt)	N/A	N/A	N/A

Water Sample Observations (field)				
Colour	N/A	Capped at ground level	Y / N	Capped flush to the ground
Odour Present	N/A	Other field related:		
Sediment/Precipitate	N/A			
Free Product	N/A			
Hydrocarbon Sheen	N/A			



Environmental setting:	Urban	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	
No		EMT 21-3800	

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	12/03/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH203A(D)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	9.82	Total depth (mbtoc)	35
SWL (mBGL)	9.99	S/P recess/above g/l (m)	-0.17
General location details:	Urban		
GPS co-ordinates (ITM):	715426.93, 739989.93		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.26	11.26	11.26
pH	7.54	7.54	7.54
Electrical Conductivity (uS/cm)	818	818	818
TDS (ppt)	0.53	0.53	0.53

Water Sample Observations (field)			
Colour	Grey to dark grey	Capped at ground level	Y / N Capped flush to the ground
Odour Present	No	Other field related:	
Sediment/Precipitate	Yes	Very silty and metals could not be filtered on site. Duplicate taken at this location. Monitoring location is located adjacent to a construction site.	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Urban	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-3800
Yes			

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	12/03/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH207(D)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	9.32	Total depth (mbtoc)	38
SWL (mBGL)	9.40	S/P recess/above g/l (m)	-0.08
General location details:	Residential on grass verge		
GPS co-ordinates (ITM):	715437.83, 738723.41		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	11/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	9.9	9.9	9.9
pH	7.53	7.53	7.53
Electrical Conductivity (uS/cm)	702	702	702
TDS (ppt)	0.45	0.45	0.45

Water Sample Observations (field)				
Colour	Brown to dark brown	Capped at ground level	Y / N	Capped flush to the ground
Odour Present	No	Other field related:		
Sediment/Precipitate	Yes			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Residential on grass verge	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-3800
Yes			

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W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	15/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH211	AZ Zone	AZ-4
Installation diameter (mm)	50	Type:	PVC
SWL (mbtoc)	At surface	Total depth (mbtoc)	29.2
SWL (mBGL)	At surface	S/P recess/above g/l (m)	-0.2
General location details:	Soccer park / pitch (Home Farm)		
GPS co-ordinates (ITM):	715469.68, 737364.2		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& MA
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	15/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	13.3	13.3	13.3
pH	7.71	7.71	7.71
Electrical Conductivity (uS/cm)	848	848	848
TDS (ppt)	0.61	0.61	0.61

Water Sample Observations (field)			
Colour	Merky to light brown	Capped at ground level	Y / N Capped flush to ground
Odour Present	No	Other field related:	
Sediment/Precipitate	Slight	Quick recharge. Well is slightly artesian. There is strong upward pressure noted within this well.	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Recreational / parkland	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-3800

Groundwater Monitoring Record Sheet

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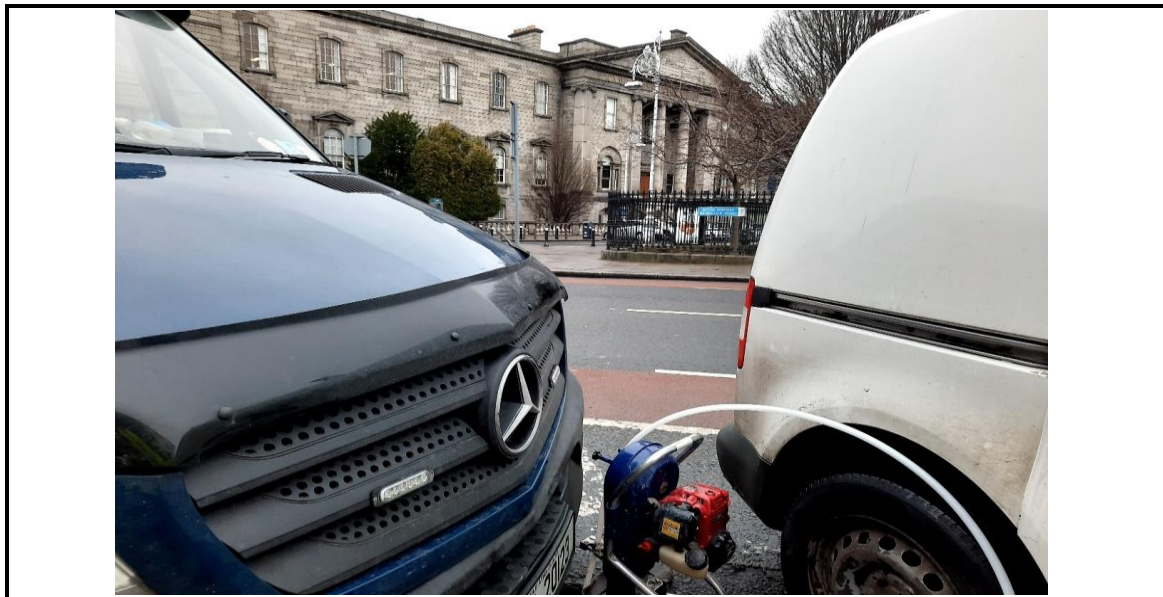
Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	18/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH215(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	DRY	Total depth (mbtoc)	15.75
SWL (mBGL)	DRY	S/P recess/above g/l (m)	-0.10
General location details:	Street parking area close to Life Pharmacy		
GPS co-ordinates (ITM):	715163.41, 735713.3		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	15/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	n/a	n/a	n/a
pH	n/a	n/a	n/a
Electrical Conductivity (uS/cm)	n/a	n/a	n/a
TDS (ppt)	n/a	n/a	n/a

Water Sample Observations (field)			
Colour	n/a	Capped at ground level	Y / N Yes, flush
Odour Present	n/a	Other field related:	
Sediment/Precipitate	n/a		
Free Product	n/a		
Hydrocarbon Sheen	n/a		



Environmental setting:	Access constraints:
Urban, street parking	No, but parking can be busy

Sample taken:	Y / N	Laboratory Report Ref:
No		

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Dublin 17, Ireland.

T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	18/03/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH215(D)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	14.42	Total depth (mbtoc)	22
SWL (mBGL)	14.55	S/P recess/above g/l (m)	-0.13
General location details:	Street parking area close to Life Pharmacy		
GPS co-ordinates (ITM):	715163.41, 735713.3		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	150/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.55	11.55	11.55
pH	7.80	7.80	7.80
Electrical Conductivity (uS/cm)	849	849	849
TDS (ppt)	0.55	0.55	0.55

Water Sample Observations (field)			
Colour	Merky to brown, turbid	Capped at ground level	Y / N Yes, flush
Odour Present	Slight organic	Other field related:	
Sediment/Precipitate	Slight	Dual installation present. Very slow recharge noted at this location. Well was pumped dry three times.	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Urban, street parking	No, but parking can be busy

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-4178

Groundwater Monitoring Record Sheet

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The Tecpro Building,
Clonsaugh Business & Technology Park,
Dublin 17, Ireland.

T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	18/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH216A(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	16.05	Total depth (mbtoc)	19
SWL (mBGL)	16.19	S/P recess/above g/l (m)	-0.14
General location details:	Driveway for St. Joesph's Church		
GPS co-ordinates (ITM):	715249.41, 735643.64		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	15/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.7	11.7	11.7
pH	7.28	7.28	7.28
Electrical Conductivity (uS/cm)	1,063	1,063	1,063
TDS (ppt)	0.69	0.69	0.69

Water Sample Observations (field)				
Colour	Brown to dark brown, turbid	Capped at ground level	Y / N	Yes, flush
Odour Present	Slight organic	Other field related:		
Sediment/Precipitate	Yes			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Access constraints:
Urban, driveway of church	Yes, call church to open gates of driveway

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-4178

Groundwater Monitoring Record Sheet

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Clonsaugh Business & Technology Park,
Dublin 17, Ireland.

T: + 353 1 847 4220
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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	18/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH216A(D)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	18.39	Total depth (mbtoc)	31
SWL (mBGL)	18.43	S/P recess/ above g/l (m)	-0.04
General location details:	Driveway for St. Joseph's Church		
GPS co-ordinates (ITM):	715249.41, 735643.64		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	15/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.50	11.50	11.50
pH	7.34	7.34	7.34
Electrical Conductivity (uS/cm)	828	828	828
TDS (ppt)	0.54	0.54	0.54

Water Sample Observations (field)				
Colour	Brown to dark brown, turbid	Capped at ground level	Y / N	Yes, flush
Odour Present	No	Other field related:		
Sediment/Precipitate	Yes			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Access constraints:
Urban, driveway of church	Yes, call church to open gates of driveway

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-4178

Groundwater Monitoring Record Sheet

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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	24/03/2021		
Weather Conditions:	Sunny, dry and cold		
GW location ID:	NBH219B(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	4.24	Total depth (mbtoc)	12.1
SWL (mBGL)	4.33	S/P recess/above g/l (m)	-0.09
General location details:	Hume Street located along street parking area		
GPS co-ordinates (ITM):	716187.85, 733386.16		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	22/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	13.2	13.2	13.2
pH	7.78	7.78	7.78
Electrical Conductivity (uS/cm)	634	634	634
TDS (ppt)	0.44	0.44	0.44

Water Sample Observations (field)				
Colour	Clear to slightly cloudy	Capped at ground level	Y / N	Flush
Odour Present	No	Other field related:		
Sediment/Precipitate	No	Borehole located within the middle of a car space		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Urban	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-4357
Yes			

Groundwater Monitoring Record Sheet

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T: + 353 1 847 4220
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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	24/03/2021		
Weather Conditions:	Sunny, dry and cold		
GW location ID:	NBH219B(D)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	5.52	Total depth (mbtoc)	27.1
SWL (mBGL)	5.62	S/P recess/above g/l (m)	-0.10
General location details:	Hume Street located along street parking area		
GPS co-ordinates (ITM):	716187.85, 733386.16		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& PG
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	22/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	10.2	10.2	10.2
pH	7.43	7.43	7.43
Electrical Conductivity (uS/cm)	937	937	937
TDS (ppt)	0.66	0.66	0.66

Water Sample Observations (field)				
Colour	Brown to grey, turbid	Capped at ground level	Y / N	Flush
Odour Present	No	Other field related:		
Sediment/Precipitate	Slight	Borehole located within the middle of a car space. PVC slightly cut in height since Round 1.		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Access constraints:
Urban	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-4357

Groundwater Monitoring Record Sheet

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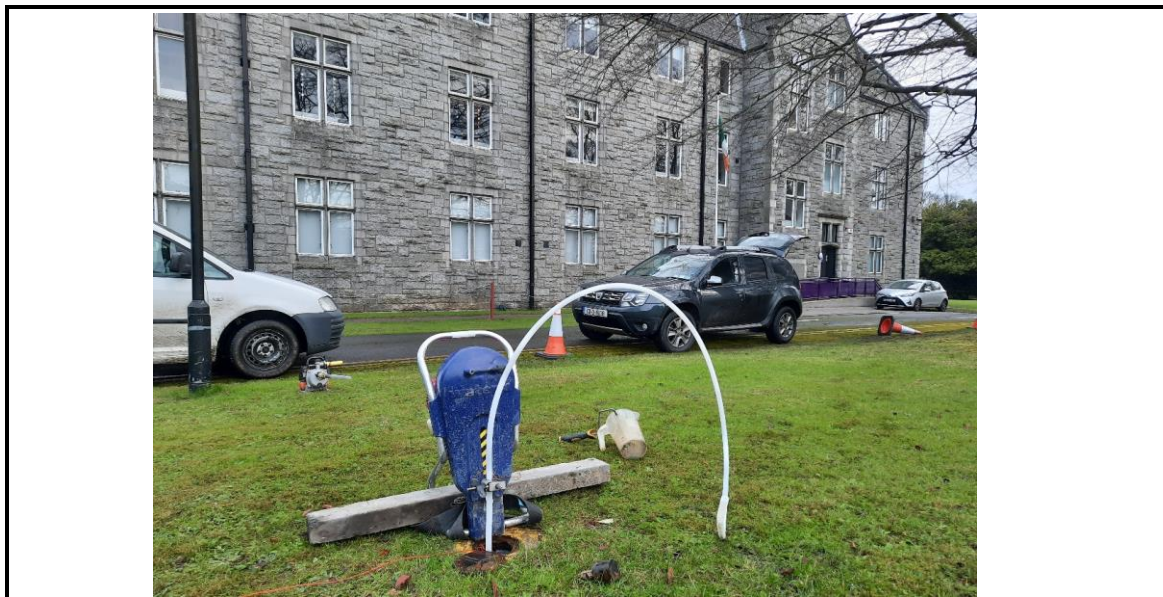
Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	15/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	NBH223(S)	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	1.37	Total depth (mbtoc)	11.5
SWL (mBGL)	1.41	S/P recess/above g/l (m)	-0.04
General location details:	Whitehall college - urban on grass verge		
GPS co-ordinates (ITM):	715484.97, 737307.3		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& MA
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	15/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	12.2	12.2	12.2
pH	7.82	7.82	7.82
Electrical Conductivity (uS/cm)	827	827	827
TDS (ppt)	0.58	0.58	0.58

Water Sample Observations (field)				
Colour	Merky to grey	Capped at ground level	Y / N	Flush
Odour Present	Slight organic	Other field related:		
Sediment/Precipitate	Slight	Quick recharge. Well is slightly artesian.		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Access constraints:
Urban on grass verge	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-3800

Groundwater Monitoring Record Sheet

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F: + 353 1 847 4257
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Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	23/03/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH401	AZ Zone	AZ-1
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	4.21	Total depth (mbtoc)	6
SWL (mBGL)	4.07	S/P recess/above g/l (m)	0.14
General location details:	Parkland		
GPS co-ordinates (ITM):	718499.7, 747695.24		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	22/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.04	11.04	11.04
pH	7.19	7.19	7.19
Electrical Conductivity (uS/cm)	837	837	837
TDS (ppt)	0.55	0.55	0.55

Water Sample Observations (field)				
Colour	Clear	Capped at ground level	Y / N	Capped above ground
Odour Present	No	Other field related:		
Sediment/Precipitate	No	Ground level is uneven around borehole		
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Access constraints:
Parkland	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-4292

Groundwater Monitoring Record Sheet

METROLINK

awnconsulting

The Tecpro Building,
Clonsaugh Business & Technology Park,
Dublin 17, Ireland.

T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	23/03/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH402	AZ Zone	AZ-1
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	4.23	Total depth (mbtoc)	13
SWL (mBGL)	4.03	S/P recess/above g/l (m)	0.20
General location details:	Parkland		
GPS co-ordinates (ITM):	718494.27, 747690.57		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	22/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	10.3	10.3	10.3
pH	7.14	7.14	7.14
Electrical Conductivity (uS/cm)	599	599	599
TDS (ppt)	0.54	0.54	0.54

Water Sample Observations (field)			
Colour	Clear	Capped at ground level	Y / N Capped above ground
Odour Present	No	Other field related:	
Sediment/Precipitate	No	Ground level is uneven around borehole	
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Parkland	Access constraints:	None
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Sample taken:	Y / N	Laboratory Report Ref:	EMT 21-4292
Yes			

Groundwater Monitoring Record Sheet

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E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	23/03/2021		
Weather Conditions:	Overcast, dry and cold		
GW location ID:	NBH406	AZ Zone	AZ-1
Installation diameter (mm)	150	Type:	PVC
SWL (mbtoc)	4.87	Total depth (mbtoc)	18
SWL (mBGL)	4.66	S/P recess/above g/l (m)	0.21
General location details:	Residential		
GPS co-ordinates (ITM):	718547.12, 747431.91		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	22/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.92	11.92	11.92
pH	7.42	7.42	7.42
Electrical Conductivity (uS/cm)	681	681	681
TDS (ppt)	0.44	0.44	0.44

Water Sample Observations (field)				
Colour	Clear to cloudy	Capped at ground level	Y / N	Capped above ground
Odour Present	No	Other field related:		
Sediment/Precipitate	No			
Free Product	No			
Hydrocarbon Sheen	No			



Environmental setting:	Access constraints:
Residential grass verge area	None

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-4292

Groundwater Monitoring Record Sheet

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awnconsulting

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Clonshaugh Business & Technology Park,
Dublin 17, Ireland.

T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	22/03/2021		
Weather Conditions:	Overcast, dry and mild		
GW location ID:	GBH06	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	10.96	Total depth (mbtoc)	15
SWL (mBGL)	11.02	S/P recess/above g/l (m)	-0.06
General location details:	Park - gaelic pitch of St. Vincent's School		
GPS co-ordinates (ITM):	714786.4, 736479.41		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	22/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	11.10	11.10	11.10
pH	7.66	7.66	7.66
Electrical Conductivity (uS/cm)	640	640	640
TDS (ppt)	0.41	0.41	0.41

Water Sample Observations (field)			
Colour	Clear to merky	Capped at ground level	Y / N Capped flush to ground level
Odour Present	No	Other field related:	
Sediment/Precipitate	No		
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Park and recreational	Yes, contact school secretary to gain access

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EUROFINS 21-09222-0

Groundwater Monitoring Record Sheet

METROLINK

awnconsulting

The Tecpro Building,
Clonshaugh Business & Technology Park,
Dublin 17, Ireland.

T: + 353 1 847 4220
F: + 353 1 847 4257
E: info@awnconsulting.com
W: www.awnconsulting.com

Client:	Jacobs Engineering, Ireland		
Project:	MetroLink		
Contract No:	18_9975		
Date/Time	22/03/2021		
Weather Conditions:	Overcast dry and mild		
GW location ID:	GBH09	AZ Zone	AZ-4
Installation diameter (mm)	38	Type:	PVC
SWL (mbtoc)	7.49	Total depth (mbtoc)	12
SWL (mBGL)	7.56	S/P recess/above g/l (m)	-0.07
General location details:	Park - gaelic pitch of St. Vincent's School		
GPS co-ordinates (ITM):	714644.32, 736604.33		

Sampling Equipment:	Tubing, Level & Field Meter	AWN Consultant(s):	CD& RD
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QA Procedures for Multi-meter:			
Last Field Calibration	Date:	22/03/2021	Time: -
Last Full Calibration	March_2021		

Water Quality - Field Measurements			
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	10.24	10.24	10.24
pH	7.33	7.33	7.33
Electrical Conductivity (uS/cm)	488	488	488
TDS (ppt)	0.44	0.44	0.44

Water Sample Observations (field)			
Colour	Merky to light brown, turbid	Capped at ground level	Y / N Capped flush to ground level
Odour Present	No	Other field related:	
Sediment/Precipitate	No		
Free Product	No		
Hydrocarbon Sheen	No		



Environmental setting:	Access constraints:
Park and recreational	Yes, contact school secretary to gain access

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EUROFINS 21-09222-0