

A19.3D

Groundwater Monitoring **Record Sheets Round 2 2021**

Sediment/Precipitate

Free Product

Slight

No

Client:	Jacobs Engineer	ing, Ireland		METROLINK				
Project:	MetroLink							
Contract No:	18_9975							
Date/Time	29/03/2021							
Weather Conditions:	Overcast, dry and mild					consulting		
GW location ID:	AWN01(S)	AZ Zone	AZ-3		The Tecpro B			
Installation diameter (mm)	38	Туре:	PVC		Clonshaugh Business & Technology Park, Dublin 17, Ireland.			
SWL (mbtoc)	6.34	Total depth (mbtoc)	18			347 4257 consulting.com		
SWL (mBGL)	6.04	S/P recess/ above g/l (m)	0.3		W: www.awn	consulting.com		
General location details:	Agricultural land	south of Dublir	n Airport					
GPS co-ordinates (ITM):	715696, 742154							
Sampling Equipment:	Tubing, Level & F	Field Meter	AWN Consultant(s):	CD& PG				
QA Procedures for Multi-	meter:							
Last Field Calibration		Date:	29/03/2021	Time:	-			
Last Full Calibration		March_2021			-1			
Water Quality - Field Me	easurements							
Parameter	Paramete	er test 1	Parameter te	est 2		Parameter test 3		
Temp (°C)	11.	9	11.9			11.9		
pН	7.7	8	7.78			7.78		
Electrical Conductivity (uS/cm)	869	Э	869			869		
TDS (ppt)	0.6	1	0.61			0.61		
Watan Gammla Okaama								
Water Sample Observat	tions (field)							
Colour	ti ons (field) Brown to dark bro	own	Capped at ground le	vel	Y / N	Yes, above ground		



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

ROLINK



Active farming field

Client:	Jacobs Engineer	ing, Ireland			ME.
Project:	MetroLink				
Contract No:	18_9975				
Date/Time	29/03/2021				
Weather Conditions:	Overcast, dry and	d mild			
GW location ID:	AWN02(D)	AZ Zone	AZ-3		The Tecpro E Clonshaugh
Installation diameter (mm)	38	Туре:	PVC	 Comparison 	Dublin 17, Ir T: + 353 1 8
SWL (mbtoc)	10.54	Total depth (mbtoc)	28.35		F: + 353 1 8 E: info@awr
SWL (mBGL)	10.25	S/P recess/ above g/l (m)	0.29		W: www.awn
General location details:	Agricultural land	south of Dubli	n Airport		
GPS co-ordinates (ITM):	715427, 741788				
Sampling Equipment:	Tubing, Level & F	-ield Meter	AWN Consultant(s):	CD& PG	
QA Procedures for Multi-	meter:				
Last Field Calibration		Date:	29/03/2021	Time:	-
Last Full Calibration		March_2021			
Water Quality - Field Me	easurements				
Parameter	Paramete	er test 1	Parameter te	st 2	
Temp (°C)	12.	6	12.6		
рН	8.1	5	8.15		
Electrical		2	736		
Conductivity (uS/cm)	736	D	730		

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



Environmental setting:		Access constraints:
Agricultural		None
Sample taken: Y / M	Laboratory	Report Ref:
Yes	EMT 21-467	3

METROLINK



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

Parameter test 3
12.6
8.15
736
0.52

Free Product

No

Client:	Jacobs Engineeri	ing, Ireland		i i	METROLINK
Project:	MetroLink			1	
Contract No:	18_9975				
Date/Time	25/03/2021				
Weather Conditions:	Overcast, dry and	d cold			awn consulting
GW location ID:	NBH04	AZ Zone	AZ-2	The Tecpro Building, Clonshaugh Business & Technology Park,	
Installation diameter (mm)	50	Туре:	PVC	1	Dublin 17, Ireland.
SWL (mbtoc)	4.51	Total depth (mbtoc)	30		T: + 353 1 847 4220 F: + 353 1 847 4257 E: info@awnconsulting.com
SWL (mBGL)	4.60	S/P recess/ above g/l (m)	-0.09	W: www.awnconsulting.com	
General location details:	T2 surface car pa	ark at Dublin A	irport		
GPS co-ordinates (ITM):	716965.57, 7435	12.23]	
Sampling Equipment:	Tubing, Level & F	Field Meter	AWN Consultant(s):	CD& PG	
QA Procedures for Multi-	meter:				
Last Field Calibration		Date:	22/03/2021	Time:	-
Last Full Calibration		March_2021			
Water Quality - Field M	easurements				
Parameter	Paramete	er test 1	Parameter te	st 2	Parameter test 3
Temp (°C)	12.	5	12.5		12.5
pН	7.2	9	7.29		7.29
Electrical Conductivity (uS/cm)	1,03	38	1,038		1,038
TDS (ppt)	0.73	3	0.73		0.73
Water Sample Observa	tions (field)				
Colour	Merky to turbid		Capped at ground le	vel	Y / N Yes, flush
Odour Present	No		Other field related:		,
Sediment/Precipitate	Slight		T I T O (e to fire fighting activities area in the



The T2 surface car park is close to fire fighting activities area in the Dublin Airport

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

Hydrocarbon Sheen

No

Client:	Jacobs Enginee	ring, Ireland			MET	ROLINK
Project:	MetroLink					
Contract No:	18_9975					
Date/Time	29/03/2021					neulting
Weather Conditions:	Overcast, dry ar	nd mild			awncu	nsulting
GW location ID:	NBH06A	AZ Zone	AZ-3		The Tecpro Bu	
Installation diameter (mm)	150	Туре:	PVC	1	Cionsnaugh Bi Dublin 17, Irela T: + 353 1 84	
SWL (mbtoc)	6.11	Total depth (mbtoc)	22.5		F: + 353 1 84 E: info@awnco	7 4257 onsulting.com
SWL (mBGL)	5.68	S/P recess/ above g/l (m)	0.43		W: www.awnco	insulting.com
General location details:	Agricultural land along the old Air		e Dublin Airport and			
GPS co-ordinates (ITM):	716322.45, 7422	232.9				
Sampling Equipment:	Tubing, Level &	Field Meter	AWN Consultant(s):	CD& PG		
QA Procedures for Multi-	meter:					
Last Field Calibration		Date:	29/03/2021	Time:	-	
Last Full Calibration		March_2021				
Water Quality - Field Me	asurements					
Parameter	Paramet	er test 1	Parameter te	st 2		Parameter test 3
Temp (°C)	12	2.3	12.3			12.3
рН	7.9	92	7.92			7.92
Electrical Conductivity (uS/cm)	89	91	891			891
TDS (ppt)	0.0	60	0.60			0.60
Water Sample Observat	ions (field)					
Colour	Clear		Capped at ground le	vel	Y / N	Capped above ground
Odour Present	No		Other field related:			1
Sediment/Precipitate	No					
Free Product	No					
			1			



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

Free Product Hydrocarbon Sheen

No

Client:	Jacobs Enginee	ering, Ireland			MET	ROLINK	
Project:	MetroLink						
Contract No:	18_9975						
Date/Time	29/03/2021			awnconsulting			
Weather Conditions:	Overcast, dry a	nd mild				insurring	
GW location ID:	NBH06W	AZ Zone	AZ-3		The Tecpro Bu		
Installation diameter (mm)	150	Туре:	PVC		Clonshaugh Bi Dublin 17, Irel T: + 353 1 84		
SWL (mbtoc)	5.93	Total depth (mbtoc)	45		F: + 353 1 84 E: info@awnc	7 4257 onsulting.com	
SWL (mBGL)	5.66	S/P recess/ above g/l (m)	0.27		W: www.awnco	onsulting.com	
General location details:	Agricultural land along the old Ai		e Dublin Airport and				
GPS co-ordinates (ITM):	71632.43, 7422	24.11					
Sampling Equipment:	Tubing, Level &	Field Meter	AWN Consultant(s):	CD& PG			
QA Procedures for Multi-	meter:						
Last Field Calibration		Date:	29/03/2021	Time:	-		
Last Full Calibration		March_2021	I.	1	1		
Water Quality - Field Me	easurements						
Parameter	Parame	ter test 1	Parameter te	st 2		Parameter test 3	
Temp (°C)	12	2.4	12.4			12.4	
рН	7.	89	7.89			7.89	
Electrical Conductivity (uS/cm)	7.	27	727			727	
TDS (ppt)	0.	51	0.51			0.51	
Water Sample Observat	ions (field)						
Colour	Clear		Capped at ground le	vel	Y / N	Capped above ground	
Odour Present	Yes, organic/ ro	otten eggs	Other field related:		·	·	
Sediment/Precipitate	No						
Free Product	No						
Hydrocarbon Shoon	No						



Environmental setting:		Access constraints:
Agricultural		None
Sample taken: Y / N	Laboratory	Report Ref:
Yes	EMT 21-467	3

Client:	Jacobs Engineerii	ME				
Project:	MetroLink					
Contract No:	18_9975					
Date/Time	12/03/2021			1		
Weather Conditions:	Overcast, dry and	cold				
GW location ID:	NBH12	AZ Zone	AZ-3		he Tecpro I Ionshaugh	
Installation diameter (mm)	50	Туре:	PVC	D	ublin 17, li	
SWL (mbtoc)	10.23	Total depth (mbtoc)	28.5	T: + 35. F: + 35. E: info@		
SWL (mBGL)	10.13	S/P recess/ above g/l (m)	0.1	v	/: www.awr	
General location details:	Greenfield / parkla					
GPS co-ordinates (ITM):	715308.61,74071	0.89				
Sampling Equipment:	Tubing, Level & F	iold Motor	AWN Consultant(s):	CD& RD		
	: abilig; zorei a i		AWN Consultant(3).	ODURD		
QA Procedures for Multi-r			AWW Consultant(3).	ODURD		
		Date:	11/03/2021	Time:	-	
QA Procedures for Multi-r		I			-	
QA Procedures for Multi-r Last Field Calibration	neter:	Date:			-	
QA Procedures for Multi-r Last Field Calibration Last Full Calibration Water Quality - Field Me	neter:	Date: March_2021		Time:	-	
QA Procedures for Multi-r Last Field Calibration Last Full Calibration	neter: asurements	Date: March_2021	11/03/2021	Time:		
QA Procedures for Multi-r Last Field Calibration Last Full Calibration Water Quality - Field Me Parameter Temp (°C)	neter: asurements Parameter	Date: March_2021	11/03/2021 Parameter te	Time:	-	
QA Procedures for Multi-r Last Field Calibration Last Full Calibration Water Quality - Field Me Parameter	neter: asurements Parameter 11.0	Date: March_2021	11/03/2021 Parameter te 11.0	Time:	-	

Water Sample Observations (field)

Clear	Capped at ground level	Y / N	Capped above ground
No	Other field related:		
Very Slight			
No			
No			
	No Very Slight No	No Other field related: Very Slight No	No Other field related: Very Slight No



Environmental setting:		Access constraints:
Greenfield / parkland		None
Sample taken: Y / N Yes	Laboratory F EMT 21-3800	•

METROLINK



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

Parameter test 3
11.0
7.38
737
0.48

Client:	Jacobs Engineeri	ng, Ireland		
Project:	MetroLink			
Contract No:	18_9975			
Date/Time	15/03/2021			
Weather Conditions:	Overcast, dry and mild			a a
GW location ID:	NBH17	AZ Zone	AZ-4	TI
Installation diameter (mm)	38	Туре:	PVC	Di T:
SWL (mbtoc)	3.90	Total depth (mbtoc)	31.6	F: E:
SWL (mBGL)	4.04	S/P recess/ above g/l (m)	-0.14	W
General location details:	Soccer park / pitch (Home Farm)		n)	
GPS co-ordinates (ITM):	715433.93, 737253.02			
Sampling Equipment:	Tubing, Level & Field Meter		AWN Consultant(s):	CD& MA
QA Procedures for Multi-	neter:			
Last Field Calibration		Date:	15/03/2021	Time:
Last Full Calibration	March_2021			
Water Quality - Field Me	asurements			
Parameter	Paramete	r test 1	Parameter te	st 2
Temp (°C)	12.8	3	12.8	
рН	7.45	5	7.45	
Electrical Conductivity (uS/cm)	887	,	887	
			0.00	

METROLINK



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

Last Field Calibration		Date:	15/03/2021	15/03/2021 Time: -				
Last Full Calibration		March_20	021	21				
Water Quality - Field N	leasurements							
Parameter	Parameter	test 1	Parameter	r test 2		Parameter test 3		
Temp (°C)	12.8		12.8 12.8			12.8		
рН	7.45		7.45	7.45		7.45		
Electrical Conductivity (uS/cm)	887		887	887 887		887		
TDS (ppt)	0.63		0.63	0.63 0.63				
Water Sample Observ	ations (field)							
Colour	Brown to merky		Capped at ground level Y / N Capped flush to the ground					
Odour Present	No		Other field related	Other field related:				
Sediment/Precipitate	Yes							
Free Product	No		S	Slow to moderate recharge noted.				
Hydrocarbon Sheen	No							



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

Client:	Jacobs Engineer	ing, Ireland		
Project:	MetroLink			-
Contract No:	18_9975			
Date/Time	16/03/2021			
Weather Conditions:	Overcast, dry an	d mild		a
GW location ID:	NBH18(S)	AZ Zone	AZ-4	Th
Installation diameter (mm)	38	Туре:	PVC	Du T:
SWL (mbtoc)	7.10	Total depth (mbtoc)	15	F: E:
SWL (mBGL)	7.14	S/P recess/ above g/l (m)	-0.04	W:
General location details:	Urban - derlict fa	ctory close to r	railway line	
GPS co-ordinates (ITM):	715055.26, 7363	378.66		
Sampling Equipment:	mpling Equipment: Tubing, Level & Fi		AWN Consultant(s):	CD& RD
QA Procedures for Multi-	neter:			
Last Field Calibration		Date:	15/03/2021	Time: -
Last Full Calibration		March_2021	arch_2021	
Water Quality - Field Me	asurements			
Parameter	Paramete	er test 1	Parameter te	st 2
Temp (°C)	13.	10	13.10	
рН	7.3	4	7.34	
Electrical	1.2	70	1.270	





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

Sampling Equipment:	Equipment: Tubing, Level & Field Meter		AWN Consultant(s):	CD& RD		
QA Procedures for Multi-	meter:					
Last Field Calibration		Date:	15/03/2021	Time:	-	
Last Full Calibration	t Full Calibration March_2021					
Water Quality - Field Me	easurements					
Parameter	Parameter	r test 1	Parameter tes	st 2		Parameter test 3
Temp (°C)	13.10		13.10			13.10
рН	7.34		7.34			7.34
Electrical Conductivity (uS/cm)	1,270		1,270			1,270
TDS (ppt)	0.82	0.82		0.82		0.82
Water Sample Observat	tions (field)					
Colour	Clear to merky / to	urbid	Capped at ground lev	/el	Y / N	Yes, flush
Odour Present	Slight organic		Other field related:			
Sediment/Precipitate	Slight					
Free Product	No					
Hydrocarbon Sheen	No					



Environmental setting:	Acces	ss constraints:			
Urban, derlict factory and house	Yes, g	Yes, gated entrance			
Sample taken: Y / N Yes	Laboratory Report EMT 21-4144	Ref:			

Client:	Jacobs Engineeri	ng, Ireland			METROLIN	
Project:	MetroLink					
Contract No:	18_9975					
Date/Time	16/03/2021				awn consulting	
Weather Conditions:	Overcast, dry and	d mild		(wilconsulting	
GW location ID:	NBH19A	AZ Zone	AZ-4		The Tecpro Building, Clonshaugh Business & Technology Park,	
Installation diameter (mm)	150	Туре:	PVC	C	Dublin 17, Ireland. T: + 353 1 847 4220	
SWL (mbtoc)	9.47	Total depth (mbtoc)	18.5	F	F: + 353 1 847 4257 E: info@awnconsulting.com	
SWL (mBGL)	9.62	S/P recess/ above g/l (m)	-0.15	``	N: www.awnconsulting.com	
General location details: Urban - car park		behind the Bri	an Boru pub			
GPS co-ordinates (ITM):	714960.6, 736410.98					
Sampling Equipment:	Tubing, Level & F	Field Meter	AWN Consultant(s):	CD& RD		
QA Procedures for Multi-	meter:					
Last Field Calibration		Date:	15/03/2021	Time:	-	
Last Full Calibration		March_2021			÷	
Water Quality - Field Me	asurements					
Parameter	Paramete	r test 1	Parameter te	st 2	Parameter test 3	
Temp (°C)	13.3		13.3		13.3	
рН	7.06		7.06		7.06	
Electrical Conductivity (uS/cm)	1,064		1,064		1,064	
TDS (ppt)	0.69	9	0.69		0.69	
Water Sample Observat	ions (field)					
Colour	Clear		Capped at ground lev	/el	Y / N Yes flush	

Free Product No	our C	Clear	Capped at ground level	Y / N	Yes, flush
Free Product No	ur Present N	sent No	Other field related:		
	ment/Precipitate N	Precipitate No			
	Product N	uct No			
Hydrocarbon Sheen No	ocarbon Sheen N	on Sheen No			



No, groundwater monitoring location is located behind smoking area of pub
poratory Report Ref: T 21-4144

METROLINK



Client:	Jacobs Engineer	ing, Ireland			МE
Project:	MetroLink			1	
Contract No:	18_9975				
Date/Time	16/03/2021				wn
Weather Conditions:	Overcast, dry and	d mild		Č	WI
GW location ID:	NBH19W	AZ Zone	AZ-4		he Tecpi Ionshau
Installation diameter (mm)	150	Туре:	PVC	C	ublin 17
SWL (mbtoc)	9.46	Total depth (mbtoc)	40	F	: + 353 : info@a
SWL (mBGL)	9.56	S/P recess/ above g/l (m)	-0.10	V	V: www.a
General location details:	Urban - car park behind the Bria		an Boru pub		
GPS co-ordinates (ITM):	714957.65, 736411.45				
Sampling Equipment:	Tubing, Level & Field Meter		AWN Consultant(s):	CD& RD	
QA Procedures for Multi-r	neter:				
Last Field Calibration		Date:	15/03/2021	Time:	-
Last Full Calibration		March_2021	1		
Water Quality - Field Me	asurements				
Parameter	Paramete	er test 1	Parameter te	st 2	
Temp (°C)	13.10		13.10		
pН	7.30		7.30		
Electrical Conductivity (uS/cm)	85	9	859		
TDS (ppt)	0.5	5	0.55		

METROLINK



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

QA Procedures for Mult	i-meter:					
Last Field Calibration		Date:	15/03/2021	Time:	-	
Last Full Calibration		March_202	1			
Water Quality - Field N	leasurements					
Parameter	Parameter	r test 1	Parameter te	st 2		Parameter test 3
Temp (°C)	13.10	0	13.10			13.10
рН	7.30)	7.30			7.30
Electrical Conductivity (uS/cm)	859		859			859
TDS (ppt)	0.55	5	0.55			0.55
Water Sample Observ	ations (field)					
Colour	Clear to merky		Capped at ground le	vel	Y / N	Yes, flush
Odour Present	Slight organic		Other field related:			
Sediment/Precipitate	No					
Free Product	No					
Hydrocarbon Sheen	No					



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

Client:	Jacobs Engine	ering, Ireland			М
Project:	MetroLink			1	
Contract No:	18_9975				
Date/Time	16/03/2021				
Weather Conditions:	Overcast, dry a	nd mild			1 W
GW location ID:	NBH20(S)	AZ Zone	AZ-4		The Te Clonsh
Installation diameter (mm)	38	Туре:	PVC	C	Dublin
SWL (mbtoc)	9.69	Total depth (mbtoc)	15.5	F	5: +3 5: inf
SWL (mBGL)	9.70	S/P recess/ above g/l (m)	-0.01	V	V: ww
General location details:	Urban - walkwa	y along the Roy	al Canal		
GPS co-ordinates (ITM):	714951.03, 736	318.28			
Sampling Equipment:	Tubing, Level 8	Field Meter	AWN Consultant(s):	CD& RD	
QA Procedures for Multi-	meter:				
Last Field Calibration		Date:	15/03/2021	Time:	-
Last Full Calibration		March_2021			
Water Quality - Field Me	easurements				
Parameter	Parame	ter test 1	Parameter te	st 2	
Temp (°C)	11	.60	11.60		
pН	7.	.38	7.38		
Electrical Conductivity (uS/cm)	6	17	617		





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

Sampling Equipment:	Tubing, Level & Field Meter		AWN Consultant(s): CD& RD			
QA Procedures for Multi	-meter:					
Last Field Calibration		Date:	15/03/2021	Time:	-	
Last Full Calibration March_20						
Water Quality - Field M	leasurements					
Parameter	Parameter	r test 1	Parameter te	st 2	F	Parameter test 3
Temp (°C)	11.60		11.60		11.60	
рН	7.38	3	7.38		7.38	
Electrical Conductivity (uS/cm)	617		617		617	
TDS (ppt)	0.40)	0.40		0.40	
Water Sample Observa	ations (field)					
Colour	Light brown, turbi	d	Capped at ground lev	/el	Y / N	Yes, flush
Odour Present	Slight organic	Slight organic		Other field related:		
Sediment/Precipitate	Yes					
Free Product	No					
Hydrocarbon Sheen	No					



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

Client:	Jacobs Engine	Jacobs Engineering, Ireland						
Project:	MetroLink	MetroLink						
Contract No:	18_9975	18_9975						
Date/Time	18/03/2021	18/03/2021						
Weather Conditions:	Overcast, dry a	and mild						
GW location ID:	NBH21(S)							
Installation diameter (mm)	38	Туре:	PVC					
SWL (mbtoc)	16.82	Total depth (mbtoc)	20					
SWL (mBGL)	S/P r abov		-0.22					
General location details:	GW loction loc Church	ated along taxi ra	ank beside St. Joesph					
GPS co-ordinates (ITM):	715245.81, 73	5693.89						
Sampling Equipment:	Tubing, Level &	& Field Meter	AWN Consultant(s):	CD& RE				
QA Procedures for Multi-	meter:							
Last Field Calibration		Date:	15/03/2021	Time:				
Last Full Calibration		March_2021	•					
Water Quality - Field Me	asurements							
Parameter	Parame	eter test 1	Parameter te	st 2				
			10.0					





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

Sampling Equipment:	Tubing, Level & Field	Tubing, Level & Field Meter		CD& RD			
QA Procedures for Multi	-meter:						
Last Field Calibration	Da	te:	15/03/2021	Time:	-		
Last Full Calibration March_202			1	1	•		
Water Quality - Field M	easurements						
Parameter Parameter test 1			Parameter te	st 2		Parameter test 3	
Temp (°C)	12.2	12.2		12.2		12.2	
рН	7.37	7.37		7.37		7.37	
Electrical Conductivity (uS/cm)	1,028	1,028		1,028		1,028	
TDS (ppt)	0.67		0.67		0.67		
Water Sample Observa	tions (field)		-				
Colour	Brown to dark brown,	turbid	Capped at ground lev	/el	Y / N	Yes, flush	
Odour Present	Slight organic		Other field related:				
Sediment/Precipitate	Yes						
Free Product	No		Pumped dry twice. Slow recharge at this location was noted.				
Hydrocarbon Sheen	No						



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

Client:	Jacobs Engineering, Ireland								
Project:	MetroLink	MetroLink							
Contract No:	18_9975	18_9975							
Date/Time	19/03/2021	19/03/2021							
Weather Conditions:	Overcast, dry ar	Overcast, dry and mild							
GW location ID:	NBH22(S)	AZ Zone	AZ-4						
Installation diameter (mm)	38	Туре:	PVC						
SWL (mbtoc)	1.72	Total depth (mbtoc)	19						
SWL (mBGL)	1.77 S/P recess/ above g/l (m) -0.05		-0.05						
General location details:	Moore Lane / O	Connell Street	- Construction site						
GPS co-ordinates (ITM):	715712.71, 734	924.57							
Sampling Equipment:	Tubing, Level &	Field Meter	AWN Consultant(s):	CD& PG					
QA Procedures for Multi-r	neter:								
Last Field Calibration		Date:	15/03/2021	Time:					
Last Full Calibration		March_2021							
Water Quality - Field Me	asurements								
Parameter	Paramet	er test 1	Parameter te	st 2					





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

Sampling Equipment:	Tubing, Level & Field Meter		AWN Consultant(s):	CD& PG		
QA Procedures for Multi-	meter:					
Last Field Calibration		Date:	15/03/2021	Time:	-	
Last Full Calibration March_202			•			
Water Quality - Field Me	easurements					
Parameter	Parameter test 1		Parameter tes	st 2		Parameter test 3
Temp (°C)	12.50		12.50		12.50	
рН	7.35		7.35		7.35	
Electrical Conductivity (uS/cm)	934	934		934		934
TDS (ppt)	0.60)	0.60		0.60	
Water Sample Observat	tions (field)		-		-	
Colour	Clear		Capped at ground lev	/el	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

Client:	Jacobs Engine	ering, Ireland		METROLINK
Project:	MetroLink			
Contract No:	18_9975			
Date/Time	19/03/2021			awageneulting
Weather Overcast, dry and mild				awnconsulting
GW location ID:	NBH23A	AZ Zone	AZ-4	The Tecpro Building,
Installation diameter (mm)	150	Туре:	PVC	Clonshaugh Business & Technology Park, Dublin 17, Ireland.
SWL (mbtoc)	4 / 4	Total depth (mbtoc)	40	T: + 353 1 847 4220 F: + 353 1 847 4257 E: info@awnconsulting.com
SWL (mBGL)	4.77	S/P recess/ above g/l (m)	-0.03	W: www.awnconsulting.com
General location details:	Derlict site bety Street	ween Moore Lan	e and O'Connell	
GPS co-ordinates (ITM):	715730.57, 734	4846.12]
Sampling Equipment:	Tubing, Level &	& Field Meter	AWN Consultant(s):	CD& RD
QA Procedures for Multi-r	meter:			
Last Field Calibration		Date:	15/03/2021	Time: -
Last Full Calibration		March_2021		1
Water Quality - Field Me	asurements			
Parameter	Parame	eter test 1	Parameter te	st 2 Parameter test 3
Temp (°C)	11	1.70	11.70	11.70
ъЦ	7	67	7 67	7.67



Sampling Equipment:	Tubing, Level & F	Tubing, Level & Field Meter		CD& RD		
QA Procedures for Multi-	meter:					
Last Field Calibration		Date:	15/03/2021	Time:	-	
Last Full Calibration March_202			:1			
Water Quality - Field Me	easurements					
Parameter	Parameter test 1		Parameter te	st 2		Parameter test 3
Temp (°C)	11.70		11.70	11.70		11.70
рН	7.67	7.67		7.67		7.67
Electrical Conductivity (uS/cm)	557	557		557		557
TDS (ppt)	0.36	i	0.36	0.36		0.36
Water Sample Observat	tions (field)		-		-	
Colour	Clear	Clear		vel	Y / N	Yes, flush
Odour Present	No		Other field related:			
Sediment/Precipitate	No	No				
Free Product	No	No				
Hydrocarbon Sheen	No					



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

Client:	Jacobs Engineer	ing, Ireland			MI
Project:	MetroLink				
Contract No:	18_9975				
Date/Time	19/03/2021				
Weather Conditions:	Overcast, dry and	vercast, dry and mild			
GW location ID:	NBH23W	AZ Zone	AZ-4		The Tec Clonsha
Installation diameter (mm)	150	Туре:	PVC	í	Dublin 1 1: + 35
SWL (mbtoc)	4.68	Total depth (mbtoc)	36	1	F: + 35 E: info@
SWL (mBGL)	4.84	S/P recess/ above g/l (m)	-0.16	j	N: www
General location details:	Derlict site betwee Street	en Moore Lan	e and O'Connell		
GPS co-ordinates (ITM):	715712.5, 73484	3.89			
Sampling Equipment:	Tubing, Level &	Field Meter	AWN Consultant(s):	CD& RD	
QA Procedures for Multi-r	meter:				
Last Field Calibration		Date:	15/03/2021	Time:	-
Last Full Calibration		March_2021			
Water Quality - Field Me	asurements				
Parameter	Paramete	er test 1	Parameter te	st 2	
Temp (°C)	10.3	30	10.30		
рН	8.0	1	8.01		
Electrical Conductivity (uS/cm)	27	4	274		

METROLINK



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

Sampling Equipment:	Tubing, Level & Field Meter		AWN Consultant(s):	onsultant(s): CD& RD		
QA Procedures for Multi-	meter:					
Last Field Calibration		Date:	15/03/2021	Time:	-	
Last Full Calibration	ration March_202		1			
Water Quality - Field M	easurements					
Parameter	Parameter test 1		Parameter te	st 2		Parameter test 3
Temp (°C)	10.30		10.30		10.30	
рН	8.01		8.01		8.01	
Electrical Conductivity (uS/cm)	274		274		274	
TDS (ppt)	0.18	3	0.18		0.18	
Water Sample Observa	tions (field)		-		-	
Colour	Clear		Capped at ground lev	/el	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 a	ea	Yes, gated entrance with a bell
Sample taken: Y /	Laboratory Re	eport Ref:
Yes	EMT 21-4228	

Client:	Jacobs Engineerir	ng, Ireland			
Project:	MetroLink				
Contract No:	18_9975				
Date/Time	19/03/2021	9/03/2021			
Weather Conditions:	Overcast, dry and	vercast, dry and mild			
GW location ID:	NBH24(S)	AZ Zone	AZ-4		
Installation diameter (mm)	38	Туре:	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 & F	ield Meter	AWN Consultant(s):	CD	
QA Procedures for Multi-r	neter:				
Last Field Calibration		Date:	15/03/2021	Tim	





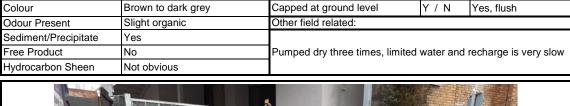
The Tecpro Building, Clonshaugh Business & Technology Park, Dublin 17, Ireland.

Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	CD& RD		
QA Procedures for Multi	i-meter:					
Last Field Calibration		Date:	15/03/2021	Time:	-	
Last Full Calibration March_202			1			
Water Quality - Field M	leasurements					
Parameter	Paramete	r test 1	Parameter te	st 2		Parameter test 3
Temp (°C)	12.3	12.30		12.30		12.30
рН	7.96	7.96		7.96		7.96
Electrical Conductivity (uS/cm)	403	403		403		403
TDS (ppt)	0.26	3	0.26	0.26		0.26
Water Sample Observa	ations (field)		•			
Colour	Clear		Capped at ground lev	vel	Y / N	Yes, flush
Odour Present	No	No		Other field related:		
Sediment/Precipitate	No					
Free Product	No					
Hydrocarbon Sheen	No					



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

Client:	Jacobs Engineeri	ng, Ireland			мет	ROLIN
Project:	MetroLink					
Contract No:	18_9975					
Date/Time	11/03/2021					oculting
Weather Conditions:	Overcast, dry and	l cold				nsulting
GW location ID:	NBH25(S)	AZ Zone	AZ-4		The Tecpro Build	
Installation diameter (mm)	38	Туре:	PVC	Ì	Dublin 17, Irelar T: + 353 1 847	
SWL (mbtoc)	3.04	Total depth (mbtoc)	8	1	F: + 353 1 847 E: info@awncor	4257 nsulting.com
SWL (mBGL)	3.14	S/P recess/ above g/l (m)	-0.10		W: www.awncon	isulting.com
General location details:	Poolbeg Street - b	ous standby a	rea			
GPS co-ordinates (ITM):	716228.69, 73437	72.1				
Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	CD& RD		
QA Procedures for Multi-	meter:					
Last Field Calibration		Date:	11/03/2021	Time:	-	
Last Full Calibration		March_2021	•			
Water Quality - Field Me	asurements					
Parameter	Parameter	r test 1	Parameter te	st 2	F	Parameter test 3
Temp (°C)	10.3	3	10.3			10.3
pН	7.33	3	7.33			7.33
Electrical Conductivity (uS/cm)	32,196		32,196		32,196	
TDS (ppt)	20.9	3	20.93			20.93
Water Sample Observat	ions (field)		-		-	
Colour	Brown to dark gre	ey	Capped at ground lev	/el	Y / N	Yes, flush
						1





Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-3591

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Client:	Jacobs Engine	ering, Ireland	g, Ireland		MЕ
Project:	MetroLink			1	
Contract No:	18_9975				
Date/Time	11/03/2021				WD
Weather Conditions:	Overcast, dry a	nd cold		ò	
GW location ID:	NBH26CA	AZ Zone	AZ-4		he Tecpro
Installation diameter (mm)	150	Туре:	PVC	C	Clonshaug Dublin 17,
SWL (mbtoc)	3.89	Total depth (mbtoc)	9	F	: + 353 : info@av
SWL (mBGL)	3.97	S/P recess/ above g/l (m)	-0.08	V	V: www.av
General location details:	Derlict site alon tracks	ig Luke Lane an	d adjacent to train		
GPS co-ordinates (ITM):	716262.56, 734	1334.47			
Sampling Equipment:	Tubing, Level &	k Field Meter	AWN Consultant(s):	CD& RD	
QA Procedures for Multi-	meter:				
Last Field Calibration		Date:	11/03/2021	Time:	-
Last Full Calibration		March_2021			
Water Quality - Field Me	easurements				
Parameter	Parame	ter test 1	Parameter te	st 2	
Temp (°C)	9	.71	9.71		
рН	7	.21	7.21		
Electrical Conductivity (uS/cm)	23	,205	23,205		

METROLINK



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

Sampling Equipment:	Equipment: Tubing, Level & Field Meter AWN Consultant(s): CD& RD		
QA Procedures for Multi-r	neter:		
Last Field Calibration	Date:	11/03/2021 Time:	-
Last Full Calibration	March_2021	1	
Water Quality - Field Me	asurements		
Parameter	Parameter test 1	Parameter test 2	Parameter test 3
Temp (°C)	9.71	9.71	9.71
рН	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 Observat	ions (field)		
Colour Odour Present Sediment/Precipitate	Clear to slightly merky Yes - strong rotten eggs Slight	Capped at ground level Other field related:	Y / N Yes, flush
Free Product Hydrocarbon Sheen	No Strong organic odour		
Environmental setting:		Access constraints:	
Urban Yes, gated entrance			

Sample taken:	Y / N	Laboratory Report Ref:
Yes		EMT 21-3591

Client:	Jacobs Engineerii	ng, Ireland					
Project:	MetroLink						
Contract No:	18_9975						
Date/Time	11/03/2021	11/03/2021					
Weather Conditions:	Overcast, dry and	cold					
GW location ID:	NBH26CW	NBH26CW AZ Zone AZ-4					
Installation diameter (mm)	150	Туре:	PVC	-			
SWL (mbtoc)	4.15	Total depth (mbtoc)	36				
SWL (mBGL)	4.19 S/P recess/ above g/l (m) -0.04		-0.04				
General location details:	Derlict site along I tracks	Luke Lane and	d adjacent to train				
GPS co-ordinates (ITM):	716264.09, 73433	331.43]			
Sampling Equipment:	Tubing, Level & Field Meter AWN Consultant(s):						
QA Procedures for Multi-r	neter:						
Last Field Calibration		Date:	11/03/2021	Time:			
Last Full Calibration		March_2021					





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

Sampling Equipment:	Tubing, Level & Field Meter		AWN Consultant(s):	CD& RD	CD& RD		
QA Procedures for Multi-	meter:						
Last Field Calibration Date:			11/03/2021	Time:	-		
Last Full Calibration March_2021			1		•		
Water Quality - Field Me	asurements						
Parameter	Parameter test 1		Parameter tes	st 2		Parameter test 3	
Temp (°C)	11.6		11.6	11.6		11.6	
рН	7.34		7.34		7.34		
Electrical Conductivity (uS/cm)	24,419		24,419		24,419		
TDS (ppt)	15.8	7	15.87		15.87		
Water Sample Observat	ions (field)		-		=		
Colour	Clear to slightly m	erky	Capped at ground lev	Capped at ground level		Yes, flush	
Odour Present	Yes - strong rotter	n eggs	Other field related:	Other field related:			
Sediment/Precipitate	No						
Free Product	No			Strong c	organic odd	our	
Hydrocarbon Sheen	No						



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

Client:	Jacobs Enginee	Jacobs Engineering, Ireland			METROLINK		
Project:	MetroLink	MetroLink]		
Contract No:	18_9975						
Date/Time	24/03/2021				woonculting		
Weather Conditions:	Sunny, dry and	cold		Ċ	awn consulting		
GW location ID:	NBH31	AZ Zone	AZ-4		The Tecpro Building, Clonshaugh Business & Technology Park,		
Installation diameter (mm)	50	Туре:	PVC	C	Dublin 17, Ireland.		
SWL (mbtoc)	4.73	Total depth (mbtoc)	37.63	T: + 353 1 847 4220 F: + 353 1 847 4257 E: info@awnconsulting.com W: www.awnconsulting.com			
SWL (mBGL)	4.90	S/P recess/ above g/l (m)	-0.17				
General location details:	Dartmouth Road	d - construction	site				
GPS co-ordinates (ITM):	716097, 732476	3					
Sampling Equipment:	Tubing, Level &	Field Meter	AWN Consultant(s):	CD& PG			
QA Procedures for Multi-	neter:						
Last Field Calibration		Date:	22/03/2021	Time:	-		
Last Full Calibration		March_2021			•		
Water Quality - Field Me	asurements						
Parameter	Paramet	er test 1	Parameter te	st 2	Parameter test 3		
Temp (°C)	11	.8	11.8		11.8		
рН	7.	65	7.65		7.65		
Electrical Conductivity (uS/cm)	87	78	878		878		
TDS (ppt)	0.	62	0.62		0.62		

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Electrical Conductivity (uS/cm)	878	878		878				
TDS (ppt)	0.62	0.62	.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			a the second				
Free Product	No	 Area by borehole is clear and away from the main works of the construction site. 						
Hydrocarbon Sheen	No	Consu	construction site.					



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

Sediment/Precipitate

Free Product

n/a

n/a

Client:	Jacobs Engineer	ing, Ireland			METROLINK	
Project:	MetroLink			1		
Contract No:	18_9975					
Date/Time	25/03/2021				w Boonoulting	
Weather Conditions:	Overcast, dry and	d cold		Č	wn consulting	
GW location ID:	NBH60	AZ Zone	AZ-2	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		
Installation diameter (mm)	50	Туре:	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 pa	ark at Dublin A	irport			
GPS co-ordinates (ITM):	716919.9, 74347	1.85		-		
Sampling Equipment:	Tubing, Level & F	Field Meter	AWN Consultant(s):	CD& PG		
QA Procedures for Multi-	meter:					
Last Field Calibration		Date:	22/03/2021	Time:	-	
Last Full Calibration						
		March_2021				
Water Quality - Field Me	asurements	March_2021				
Water Quality - Field Me Parameter	easurements Paramete		Parameter te	st 2	Parameter test 3	
-		er test 1	Parameter tes n/a	st 2	Parameter test 3 n/a	
Parameter	Paramete	er test 1		st 2		
Parameter Temp (°C)	Paramete n/a	er test 1	n/a	st 2	n/a	
Parameter Temp (°C) pH Electrical	Paramete n/a n/a	er test 1	n/a n/a	st 2	n/a n/a	
Parameter Temp (°C) pH Electrical Conductivity (uS/cm)	Paramete n/a n/a n/a	er test 1	n/a n/a n/a	st 2	n/a n/a n/a	
Parameter Temp (°C) pH Electrical Conductivity (uS/cm) TDS (ppt)	Paramete n/a n/a n/a	er test 1	n/a n/a n/a		n/a n/a n/a	



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

Client:	Jacobs Engin	eering, Ireland		METROLINK		
Project:	MetroLink					
Contract No:	18_9975					
Date/Time	25/03/2021			awa accounting		
Weather Conditions:	Overcast, dry	and cold		awnconsulting		
GW location ID:	NBH61	AZ Zone	AZ-2	The Tecpro Building,		
Installation diameter (mm)	50	Туре:	PVC	Clonshaugh Business & Technology Park, Dublin 17, Ireland. T: + 353 1 847 4220		
SWL (mbtoc)	1.99	Total depth (mbtoc)	2.12	F: + 353 1 847 4257 E: info@awnconsulting.com		
SWL (mBGL)	2.12	S/P recess/ above g/l (m)	-0.13	W: www.awnconsulting.com		
General location details:	T2 surface ca	r park at Dublin A	irport			
GPS co-ordinates (ITM):	716963.23, 743504.73					
Sampling Equipment:	Tubing, Level	& Field Meter	AWN Consultant(s):	CD& PG		
QA Procedures for Multi-	meter:					
Last Field Calibration		Date:	22/03/2021	Time: -		
Last Full Calibration		March_2021				
Water Quality - Field Me	asurements					
Parameter	Param	neter test 1	Parameter tes	st 2 Parameter test 3		
Temp (°C)		n/a	n/a	n/a		
рН		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 Observat	ions (field)		•			
Colour	n/a		Capped at ground lev	vel Y / N Yes, flush		
Odour Present	n/a		Other field related:			
Sediment/Precipitate	n/a					
Free Product	n/a			ark is close to fire fighting activities area in t n Airport. Dry, no sample taken.		
Hydrocarbon Sheen	n/a		1			



Environmental setting:	Access constraints:
Urban	None
Sample taken: Y / N	Laboratory Report Ref:

Client:	Jacobs Engineeri	ng, Ireland			метғ	
Project:	MetroLink					
Contract No:	18_9975					
Date/Time	25/03/2021		wncons			
Weather Conditions:	Overcast, dry and	Overcast, dry and cold				
GW location ID:	NBH62	AZ Zone	AZ-2		he Tecpro Building	
Installation diameter (mm)	50	Type: Total depth (mbtoc)	PVC	Clonshaugh Busine Dublin 17, Ireland.		
SWL (mbtoc)	1.72		2.47	F	+ 353 1 847 422 + 353 1 847 425 info@awnconsult	
SWL (mBGL)	1.80	S/P recess/ above g/l (m)	-0.08	W	: www.awnconsulti	
General location details:	T2 surface car pa	ırk at Dublin A	irport			
GPS co-ordinates (ITM):	716992.96, 7435					
Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	CD& PG		
QA Procedures for Multi-	meter:					
Last Field Calibration		Date:	22/03/2021	Time:	-	
Last Full Calibration		March_2021				
Water Quality - Field Me	easurements					
Parameter	Paramete	r test 1	Parameter te	st 2	Par	
Temp (°C)	10.4	4	10.4			
pH 8)	8.10			
pH	8.10					
pH Electrical Conductivity (uS/cm)	1,04	-	1,045			





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220 257 Ilting.com Ilting.com

QA Procedures for Multi-	meter:					
Last Field Calibration		Date:	22/03/2021	Time:	-	
Last Full Calibration						
Water Quality - Field Me	easurements					
Parameter Parameter test 1			Parameter tes	st 2		Parameter test 3
Temp (°C)	10.4		10.4	10.4		10.4
рН	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 Observat	tions (field)					
Colour	Light brown, turbic	ł	Capped at ground lev	el	Y / N	Yes, flush
Odour Present	No		Other field related:			
Sediment/Precipitate	Very slight					
Free Product	No		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.			
Hydrocarbon Sheen	No		Bubin Airport. Min	ina puige		er volume in well bore.



Environmental setting:		Access constraints:
Urban		None
Sample taken: Y /	N Laboratory I	Report Ref:
Yes	EMT 21-4456	3

Client:	Jacobs Engineerii					
Project:	MetroLink	MetroLink				
Contract No:	18_9975	18_9975				
Date/Time	29/03/2021	9/03/2021				
Weather Conditions:	Overcast, dry and	Overcast, dry and mild				
GW location ID:	NBH63	AZ Zone	AZ-4	TI		
Installation diameter (mm)	50	Туре:	PVC	Di T:		
SWL (mbtoc)	DRY	Total depth (mbtoc)	3.99	F: E: W		
SWL (mBGL)	DRY	S/P recess/ above g/l (m)	-0.10	W		
General location details:	Derlict site betwee Street	en Moore Lan	e and O'Connell			
GPS co-ordinates (ITM):	715732.18, 73484	19.17				
Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	CD& PG		
QA Procedures for Multi-r	neter:					
Last Field Calibration		Date:	29/03/2021	Time:		
Last Full Calibration		March_2021				
Water Quality - Field Me	asurements					
Parameter	Parameter	r test 1	Parameter te	st 2		
Temp (°C)	n/a		n/a			
1	1		1			





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

Sampling Equipment:	Tubing, Level & Field Meter		AWN Consultant(s):	CD& PG		
QA Procedures for Multi-r	neter:					
Last Field Calibration		Date:	29/03/2021	Time:	-	
Last Full Calibration		March_2021				
Water Quality - Field Me	asurements					
Parameter	Parameter	test 1	Parameter tes	st 2	F	Parameter test 3
Temp (°C)	n/a		n/a			n/a
рН	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 Observat	ions (field)		-		-	
Colour	n/a		Capped at ground lev	/el	Y / N	Yes, flush
Odour Present	n/a		Other field related:			
Sediment/Precipitate	n/a					
Free Product	n/a		Cover obse	rved as br	oken at tim	e of monitoring
Hydrocarbon Sheen	n/a					



Sample taken:	Y / N	Laboratory I	Report Ref:
No			

Client:	Jacobs Engineeri	ng, Ireland		
Project:	MetroLink			
Contract No:	18_9975			
Date/Time	11/03/2021			1
Weather Conditions:	Overcast, dry and	l cold		
GW location ID:	NBH64	AZ Zone	AZ-4	
Installation diameter (mm)	50	Туре:	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 and Poolbeg Stre		ng Townsend Street	
GPS co-ordinates (ITM):	716277.69, 73431	12.18		
Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	CD& R
QA Procedures for Multi-r	neter:			
Last Field Calibration		Date:	11/03/2021	Time:
Last Full Calibration		March_2021		
Water Quality - Field Me	asurements			
Parameter	Parameter	r test 1	Parameter te	st 2





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

Sampling Equipment:	Tubing, Level & Field Meter AWN Consultant(s): CD& RD					
QA Procedures for Multi-r	meter:					
Last Field Calibration		Date:	11/03/2021	Time:	-	
Last Full Calibration		March_2021	•		•	
Water Quality - Field Me	asurements					
Parameter	Parameter	test 1	Parameter te	st 2	ŀ	Parameter test 3
Temp (°C)	9.87		9.87			9.87
рН	6.96		6.96			6.96
Electrical Conductivity (uS/cm)	1,121		1,121			1,121
TDS (ppt)	0.72	1	0.72			0.72
Water Sample Observat	ions (field)		-		-	
Colour	Light brown to bro	wn, turbid	Capped at ground lev	/el	Y / N	Yes, flush
Odour Present	No		Other field related:			
Sediment/Precipitate	Yes					
Free Product	No]			
Hydrocarbon Sheen	No					



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

Client:	Jacobs Engineerii						
Project:	MetroLink	MetroLink					
Contract No:	18_9975	8_9975					
Date/Time	07/05/2021	7/05/2021					
Weather Conditions:	Clear, slight breez	lear, slight breeze, dry					
GW location ID:	NBH72(S)	AZ Zone	AZ-1				
Installation diameter (mm)	38	Туре:	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:	Argicultural						
GPS co-ordinates (ITM):	718705.56, 74841	3.29					
Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	CD& PG			
QA Procedures for Multi-r	neter:						
Last Field Calibration		Date:	07/05/2021	Time:			
Last Full Calibration		March_2021					
Water Quality - Field Me	asurements						
Parameter	Parameter	r test 1	Parameter te	st 2			
Temp (°C)	9.4		9.4				
рН	7.98	8	7.98				
Electrical	1		1				





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

Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	CD& PG	CD& PG	
QA Procedures for Mult	i-meter:					
Last Field Calibration		Date:	07/05/2021	Time:	-	
Last Full Calibration		March_2021				
Water Quality - Field N	leasurements					
Parameter	Parameter	r test 1	Parameter te	st 2		Parameter test 3
Temp (°C)	9.4		9.4			9.4
рН	7.98	3	7.98			7.98
Electrical Conductivity (uS/cm)	645		645			645
TDS (ppm)	444		444			444
Water Sample Observ	ations (field)		-			
Colour	Slight murky brow	'n	Capped at ground lev	/el	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 Yes	Laboratory Report Ref: EMT- 21-6920

Sediment/Precipitate

Hydrocarbon Sheen

Free Product

Yes

No

No

Client:	Jacobs Engineerir	ng, Ireland			MET	ROLINK	
Project:	MetroLink						
Contract No:	18_9975						
Date/Time	12/03/2021					nsulting	
Weather Conditions:	Overcast, dry and	cold	-	(iisuittiig	
GW location ID:	NBH73(S)	AZ Zone	AZ-3		The Tecpro Bu	ilding, usiness & Technology Park,	
Installation diameter (mm)	38	Туре:	PVC	C	Dublin 17, Irel	and.	
SWL (mbtoc)	7.66	Total depth (mbtoc)	10.28	F	F: + 353 1 84 E: info@awnc W: www.awnco	7 4257 onsulting.com	
SWL (mBGL)	7.34	S/P recess/ above g/l (m)	0.32				
General location details:	Greenfield / parkla	and					
GPS co-ordinates (ITM):	715293.86, 74060	00.55					
Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	CD& RD			
QA Procedures for Multi-r	neter:						
Last Field Calibration		Date:	11/03/2021	Time:	-		
Last Full Calibration		March_2021					
Water Quality - Field Me	asurements						
Parameter	Parameter	r test 1	Parameter te	st 2		Parameter test 3	
Temp (°C)	9.06	6	9.06			9.06	
	1						
pН	7.19)	7.19			7.19	
pH Electrical Conductivity (uS/cm)	7.19 682		7.19 682			7.19 682	
Electrical							
Electrical Conductivity (uS/cm)	682 0.44		682			682	
Electrical Conductivity (uS/cm) TDS (ppt)	682 0.44		682	/el	Y / N	682	

Very silty water.



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

Client:	Jacobs Engineering, Ireland				М
Project:	MetroLink			1 -	
Contract No:	18_9975			-	
Date/Time	15/03/2021				-
Weather Conditions:	Overcast, dry an	Overcast, dry and mild			1 W I
GW location ID:	NBH102(S) AZ Zone AZ-4			The Tec Clonsha	
Installation diameter (mm)	38	Туре:	PVC	C	Dublin : Sublin :
SWL (mbtoc)	9.52	Total depth (mbtoc)	23.94	F	F: + 35 E: info
SWL (mBGL)	9.62	S/P recess/ above g/l (m)	-0.1	V	V: www
General location details:	Residential on ro	badway			
General location details: GPS co-ordinates (ITM):	Residential on ro 715445.38, 7386			_	
		601.77	AWN Consultant(s):	CD& MA	
GPS co-ordinates (ITM):	715445.38, 7386 Tubing, Level &	601.77	AWN Consultant(s):	CD& MA	
GPS co-ordinates (ITM): Sampling Equipment:	715445.38, 7386 Tubing, Level &	601.77	AWN Consultant(s): 15/03/2021	CD& MA	-
GPS co-ordinates (ITM): Sampling Equipment: QA Procedures for Multi-	715445.38, 7386 Tubing, Level &	501.77 Field Meter	15/03/2021		-
GPS co-ordinates (ITM): Sampling Equipment: QA Procedures for Multi- Last Field Calibration	715445.38, 7386 Tubing, Level & meter:	Field Meter	15/03/2021		-
GPS co-ordinates (ITM): Sampling Equipment: QA Procedures for Multi- Last Field Calibration Last Full Calibration	715445.38, 7386 Tubing, Level & meter:	501.77 Field Meter Date: March_2021	15/03/2021	Time:	- -
GPS co-ordinates (ITM): Sampling Equipment: QA Procedures for Multi- Last Field Calibration Last Full Calibration Water Quality - Field Me	715445.38, 7386 Tubing, Level & meter:	Date: March_2021	15/03/2021	Time:	
GPS co-ordinates (ITM): Sampling Equipment: QA Procedures for Multi- Last Field Calibration Last Full Calibration Water Quality - Field Me Parameter	715445.38, 7386 Tubing, Level & meter: easurements Paramete	501.77 Field Meter Date: March_2021 er test 1 9	15/03/2021 Parameter te	Time:	-
GPS co-ordinates (ITM): Sampling Equipment: QA Procedures for Multi- Last Field Calibration Last Full Calibration Water Quality - Field Me Parameter Temp (°C)	715445.38, 7386 Tubing, Level & meter: casurements Paramete 12	Date: Date: March_2021 Pr test 1 9	15/03/2021 Parameter te 12.9	Time:	-





ecpro Building, haugh Business & Technology Park, n 17, Ireland.

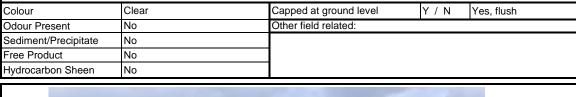
353 1 847 4220 353 1 847 4257 fo@awnconsulting.com ww.awnconsulting.com

Last Full Calibration	March_2	March_2021			
Water Quality - Field M	leasurements				
Parameter	Parameter test 1	Parameter test 2		Parameter test 3	
Temp (°C)	12.9	12.9		12.9	
рН	7.68	7.68		7.68	
Electrical Conductivity (uS/cm)	805	805		805	
TDS (ppt)	0.57	0.57		0.57	
Water Sample Observa	ations (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:	Access constraints:	
Residential / roadway	None	
Sample taken: Y / N	Laboratory Report Ref:	
Yes	EMT 21-3800	

Client:	Jacobs Engineering, Ireland				METROLINK	
Project:	MetroLink					
Contract No:	18_9975	8_9975				
Date/Time	23/03/2021				aw poon out in a	
Weather Conditions:	Overcast, dry	Overcast, dry and cold			awn consulting	
GW location ID:	ABH30i	AZ Zone	AZ-4		The Tecpro Building, Clonshaugh Business & Technology Park,	
Installation diameter (mm)	50	Туре:	PVC		Dublin 17, Ireland.	
SWL (mbtoc)	5.52	Total depth (mbtoc)	29.6	T: + 353 1 847 4220 F: + 353 1 847 4257 E: info@awnconsulting.com W: www.awnconsulting.com		
SWL (mBGL)	5.82	S/P recess/ above g/l (m)	-0.30			
General location details:	Albert College	Albert College - ballymun road side				
GPS co-ordinates (ITM):	715433, 7383	715433, 738337				
Sampling Equipment:	Tubing, Leve	I & Field Meter	Field Meter AWN Consultant(s):			
QA Procedures for Multi-	meter:					
Last Field Calibration		Date:	22/03/2021	Time:	-	
Last Full Calibration		March_2021	h_2021			
Water Quality - Field Me	asurements					
Parameter	Paran	neter test 1	Parameter te	st 2	Parameter test 3	
Temp (°C)		12.07	12.07		12.07	
рН		7.28	7.28		7.28	
Electrical Conductivity (uS/cm)		806	806		806	
TDS (ppt)		0.52	0.52		0.52	
Water Sample Observat	ions (field)					
Colour	Clear		Capped at ground le	vel	Y / N Yes, flush	





-

Free Product

N/A

N/A

Client:	Jacobs Enginee	ring, Ireland			MET	FROLINK
Project:	MetroLink					
Contract No:	18_9975					
Date/Time	12/03/2021					noulting
Weather Conditions:	Overcast, dry ar	id cold				insulting
GW location ID:	NBH203A(S)	AZ Zone	AZ-4		The Tecpro Bu	uilding, usiness & Technology Park,
Installation diameter (mm)	38	Туре:	PVC	Î	Dublin 17, Irela T: + 353 1 84	and.
SWL (mbtoc)	DRY	Total depth (mbtoc)	17.9		F: + 353 1 84 E: info@awnco	17 4257 onsulting.com
SWL (mBGL)	DRY	S/P recess/ above g/l (m)			W: www.awnco	onsulting.com
General location details:	Urban					
GPS co-ordinates (ITM):	715426.93, 7399	989.93				
Sampling Equipment:	Tubing, Level &	Field Meter	AWN Consultant(s):	CD& RD		
QA Procedures for Multi-	meter:		•			
Last Field Calibration		Date:	11/03/2021	Time:	-	
Last Full Calibration		March_2021		1	-	
Water Quality - Field Me	easurements					
Parameter	Paramet	er test 1	Parameter te	st 2		Parameter test 3
Temp (°C)	N/	Ά	N/A		N/A	
рН	N/	Ά	N/A		N/A	
Electrical Conductivity (uS/cm)	N/	Ά	N/A		N/A	
TDS (ppt)	N/A N/A		N/A			N/A
Water Sample Observat	ions (field)		•			
Colour	N/A		Capped at ground lev	/el	Y / N	Capped flush to the ground
Odour Present	N/A		Other field related:		<u></u>	
Sediment/Precipitate	N/A					
	A 1 / A					



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

ROLINK



Client:	Jacobs Engineeri	ng, Ireland			V	
Project:	MetroLink			1		
Contract No:	18_9975				-	
Date/Time	12/03/2021	2/03/2021				
Weather Conditions:	Overcast, dry and	l cold			3	
GW location ID:	NBH203A(D)	AZ Zone	AZ-4		The	
Installation diameter (mm)	38	Туре:	PVC	C	Dul	
SWL (mbtoc)	9.82	Total depth (mbtoc)	35	F		
SWL (mBGL)	9.99	S/P recess/ above g/l (m)	-0.17	``	N:	
General location details:	Urban					
GPS co-ordinates (ITM):	715426.93, 73998	39.93				
Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	CD& RD		
QA Procedures for Multi-	neter:					
Last Field Calibration		Date:	11/03/2021	Time:	-	
Last Full Calibration		March_2021				
Water Quality - Field Me	asurements					
Parameter	Parameter	r test 1	Parameter te	st 2	Γ	
Temp (°C)	11.2	6	11.26			
рН	7.54	1	7.54	-	Í	
Electrical Conductivity (uS/cm)	818	5	818		ľ	
					1	





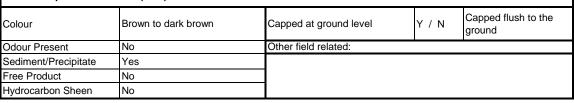
The Tecpro Building, Clonshaugh Business & Technology Park, Dublin 17, Ireland.

Sampling Equipment:	Tubing, Level & F	Tubing, Level & Field Meter		CD& RD			
QA Procedures for Mult	i-meter:						
Last Field Calibration	ast Field Calibration Date:		11/03/2021	Time:	-		
Last Full Calibration March_2021			:1				
Water Quality - Field N	leasurements						
Parameter	Parameter Parameter test 1		Parameter te	st 2		Parameter test 3	
Temp (°C)	11.2	11.26		11.26		11.26	
рН	7.54	7.54		7.54		7.54	
Electrical Conductivity (uS/cm)	818	818		818		818	
TDS (ppt)	0.53	3	0.53		0.53		
Water Sample Observa	ations (field)						
Colour	Grey to dark grey	Grey to dark grey		/el	Y / N	Capped flush to the ground	
Odour Present	No	No		Other field related:			
Sediment/Precipitate	Yes		Very silty and metal	Very silty and metals could not be filtered on site. Duplicate taken at this location. Monitoring location is located adjacent to a			
Free Product	No		at this location.				
Hydrocarbon Sheen	No		construction site.				



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

Client:	Jacobs Engineering, Ireland				М	
Project:	MetroLink					
Contract No:	18_9975					
Date/Time	12/03/2021	12/03/2021				
Weather Conditions:	Overcast, dry ar	Overcast, dry and cold				
GW location ID:	NBH207(D)	AZ Zone	AZ-4		The T Clons	
Installation diameter (mm)	38	Туре:	PVC	ĺ	Dublii T: +	
SWL (mbtoc)	9.32	Total depth (mbtoc)	38	1	F: + E: int	
SWL (mBGL)	9.40	S/P recess/ above g/l (m)	-0.08	,	<i>N</i> : w	
General location details:	Residential on g	rass verge				
GPS co-ordinates (ITM):	715437.83, 738	723.41				
Sampling Equipment:	Tubing, Level &	Field Meter	AWN Consultant(s):	CD& RD		
QA Procedures for Multi-r	meter:					
Last Field Calibration		Date:	11/03/2021	Time:	-	
Last Full Calibration		March_2021				
Water Quality - Field Me	asurements					
Parameter	Paramet	er test 1	Parameter te	st 2	T	
Temp (°C)	9.	9	9.9			
рН	7.5	7.53				
Electrical Conductivity (uS/cm)	70)2	702			
TDS (ppt)	0.4	15	0.45		1	





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

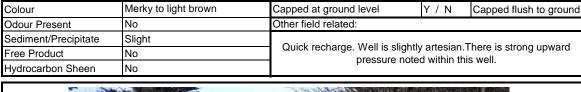
METROLINK



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

> Parameter test 3 9.9 7.53 702 0.45

Client:	Jacobs Engineer	ing, Ireland			ME.	TROLINK		
Project:	MetroLink							
Contract No:	18_9975							
Date/Time	15/03/2021				-	a navilitina		
Weather Conditions:	Overcast, dry an	d mild			awn consulting			
GW location ID:	NBH211	AZ Zone	AZ-4		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			
Installation diameter (mm)	50	Туре:	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 / pit	Soccer park / pitch (Home Farm)]			
GPS co-ordinates (ITM):	715469.68, 7373	364.2						
Sampling Equipment:	Tubing, Level &	Field Meter	AWN Consultant(s):	CD& MA				
QA Procedures for Multi-	meter:							
Last Field Calibration		Date:	15/03/2021	Time:	-			
Last Full Calibration		March_2021						
Water Quality - Field Me	easurements							
Parameter	Paramete	er test 1	Parameter te	est 2		Parameter test 3		
Temp (°C)	13	.3	13.3			13.3		
рН	7.7	'1	7.71			7.71		
Electrical Conductivity (uS/cm)	84	8	848			848		
TDS (ppt)	0.6	51	0.61			0.61		
Water Sample Observat	tions (field)							
Colour	Merky to light bro	own	Capped at ground le	vel	Y / N	Capped flush to ground		
Odour Present	No		Other field related:					
Codimont/Dropinitato	Slight							





Recreational / parkland	None
	Laboratory Report Ref: EMT 21-3800

Client:		M			
Project:	MetroLink				
Contract No:	18_9975		_		
Date/Time	18/03/2021				
Weather Conditions:	Overcast, dry a	nd mild			
GW location ID:	NBH215(S)	AZ Zone	AZ-4		The Tecp Clonshau
Installation diameter (mm)	38	Туре:	PVC	1	Dublin 1
SWL (mbtoc)	DRY	Total depth (mbtoc)	15.75		F: + 35 E: info@
SWL (mBGL)	DRY	S/P recess/ above g/l (m)	-0.10		N: www.
General location details:	Street parking a	area close to Life	e Pharmacy		
GPS co-ordinates (ITM):	715163.41, 735	5713.3			
Sampling Equipment:	Tubing, Level &	Field Meter	AWN Consultant(s):	CD& RD	
QA Procedures for Multi-r	neter:				
Last Field Calibration		Date:	15/03/2021	Time:	-
Last Full Calibration		March_2021			
Water Quality - Field Me	asurements				
Parameter	Parame	ter test 1	Parameter te	st 2	
Temp (°C)	n	/a	n/a		
рН	n	/a	n/a		
Electrical Conductivity (uS/cm)	n	/a	n/a		
	1		1		

METROLINK



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

Camping Equipmond	: abilig, 2010. a !			020112		
QA Procedures for Multi-	meter:					
Last Field Calibration		Date:	15/03/2021	Time:	-	
Last Full Calibration		March_202	21			
Water Quality - Field Me	asurements					
Parameter	Paramete	r test 1	Parameter tes	st 2		Parameter test 3
Temp (°C)	n/a		n/a			n/a
рН	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 Observat	ions (field)					
Colour	n/a		Capped at ground lev	/el	Y / N	Yes, flush
Odour Present	n/a		Other field related:			
Sediment/Precipitate	n/a					
Free Product	n/a					
Hydrocarbon Sheen	n/a					



Urban, street parking			No, but parking can be busy
Sample taken: No	Y / N	Laboratory I	Report Ref:

Client:	Jacobs Engineering, Ireland				Y
Project:	MetroLink				
Contract No:	18_9975				_
Date/Time	18/03/2021				=
Weather Conditions:	Overcast, dry and	d cold		Ċ	1
GW location ID:	NBH215(D)	AZ Zone	AZ-4		The Clor
Installation diameter (mm)	38	Туре:	PVC	C	Dut
SWL (mbtoc)	14.42	Total depth (mbtoc)	22	F	-
SWL (mBGL)	14.55	S/P recess/ above g/l (m)	-0.13	v	N: 1
General location details:	Street parking are				
GPS co-ordinates (ITM):	715163.41, 7357	13.3			
Sampling Equipment:	Tubing, Level & F	Field Meter	AWN Consultant(s):	CD& RD	
QA Procedures for Multi-r	neter:				
Last Field Calibration		Date:	150/03/2021	Time:	-
Last Full Calibration		March_2021			
Water Quality - Field Me	asurements				
Parameter	Parameter test 1		Parameter te	st 2	Γ
Temp (°C)	11.5	5	11.55		
pН	7.8	0	7.80		Ĩ
			1		

METROLINK



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

Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	CD& RD		
QA Procedures for Multi-	-meter:					
Last Field Calibration		Date:	150/03/2021	Time:	-	
Last Full Calibration		March_202	1		•	
Water Quality - Field M	easurements					
Parameter	Parameter	r test 1	Parameter te	st 2	ŀ	Parameter test 3
Temp (°C)	11.5	5	11.55			11.55
рН	7.80)	7.80			7.80
Electrical Conductivity (uS/cm)	849)	849			849
TDS (ppt)	0.55	5	0.55		0.55	
Water Sample Observa	tions (field)		-		-	
Colour	Merky to brown, t	urbid	Capped at ground lev	/el	Y / N	Yes, flush
Odour Present	Slight organic		Other field related:			
Sediment/Precipitate	Slight		Duel installation and		alaw raak	we noted at this los-time
Free Product	No		Dual installation present. Very slow recharge noted at this locati Well was pumped dry three times.			
Hydrocarbon Sheen	No		vven	was pum		se unes.



			Addess constraints.
Urban, street parking			No, but parking can be busy
Sample taken:	Y / N	Laboratory I	Report Ref:
Yes		EMT 21-4178	3

Client:	Jacobs Engineerir	acobs Engineering, Ireland					
Project:	MetroLink						
Contract No:	18_9975						
Date/Time	18/03/2021			1			
Weather Conditions:	Overcast, dry and	vercast, dry and mild					
GW location ID:	NBH216A(S)	AZ Zone	AZ-4				
Installation diameter (mm)	38	Туре:	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. J	oesph's Churc	ch				
GPS co-ordinates (ITM):	715249.41, 73564	3.64]			
Sampling Equipment:	Tubing, Level & F	Field Meter AWN Consultant(s):		CD& RI			
QA Procedures for Multi-r	neter:						
Last Field Calibration		Date:	15/03/2021	Time:			
Last Full Calibration		March_2021					
Water Quality - Field Me	asurements						
Parameter	Parameter	test 1	Parameter tes	st 2			
Temp (°C)	11.7		11.7				





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

Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	CD& RD	RD	
QA Procedures for Multi-	meter:					
Last Field Calibration		Date:	15/03/2021	Time:	-	
Last Full Calibration		March_202	1			
Water Quality - Field Me	easurements					
Parameter	Parameter	r test 1	Parameter te	st 2		Parameter test 3
Temp (°C)	11.7	7	11.7			11.7
рН	7.28	3	7.28			7.28
Electrical Conductivity (uS/cm)	1,06	3	1,063			1,063
TDS (ppt)	0.69	9	0.69			0.69
Water Sample Observa	tions (field)		-		-	
Colour	Brown to dark bro	wn, turbid	Capped at ground lev	/el	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	FMT 21-4178

Client:	Jacobs Engineering, Ireland						
Project:	MetroLink						
Contract No:	18_9975						
Date/Time	18/03/2021	8/03/2021					
Weather Conditions:	Overcast, dry and	Overcast, dry and mild					
GW location ID:	NBH216A(D)	AZ Zone	AZ-4				
Installation diameter (mm)	38	Туре:	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. J	loesph's Chur	ch				
GPS co-ordinates (ITM):	715249.41, 7356	43.64					
Sampling Equipment:	Tubing, Level & F	Field Meter	AWN Consultant(s):	CD&			
QA Procedures for Multi-r	neter:						
Last Field Calibration		Date:	15/03/2021	Time			
Last Full Calibration		March_2021					
Water Quality - Field Me	asurements						
Parameter	Paramete	r test 1	Parameter te	st 2			
	1		1				





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

Sampling Equipment:	Tubing, Level & F	vel & Field Meter AWN Consultant(s): CD& RD				
QA Procedures for Multi-	meter:					
Last Field Calibration		Date: 15/03/2021 Time: -				
Last Full Calibration		March_202	·1			
Water Quality - Field Me	easurements					
Parameter	Paramete	r test 1	Parameter te	st 2		Parameter test 3
Temp (°C)	11.5	0	11.50			11.50
рН	7.34	1	7.34	7.34		7.34
Electrical Conductivity (uS/cm)	828		828	828		828
TDS (ppt)	0.54		0.54		0.54	
Water Sample Observat	tions (field)					
Colour	Brown to dark bro	wn, turbid	Capped at ground lev	/el	Y / N	Yes, flush
Odour Present	No		Other field related:			•
Sediment/Precipitate	Yes					
Free Product	No					
Hydrocarbon Sheen	No		<u> </u>			



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

Client:	Jacobs Engineeri	Jacobs Engineering, Ireland						
Project:	MetroLink			1				
Contract No:	18_9975	8_9975						
Date/Time	24/03/2021	24/03/2021						
Weather Conditions:	Sunny, dry and co	Sunny, dry and cold						
GW location ID:	NBH219B(S)	AZ Zone	AZ-4					
Installation diameter (mm)	38	Туре:	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 loca	ted along stre	et parking area					
GPS co-ordinates (ITM):	716187.85, 733386.16							
Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	CDa				
QA Procedures for Multi-r	meter:							
Last Field Calibration		Date:	22/03/2021	Tim				





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

Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	CD& PG		
QA Procedures for Multi-	meter:					
Last Field Calibration		Date:	22/03/2021	Time:	-	
Last Full Calibration		March_202	1			
Water Quality - Field Me	easurements					
Parameter	Parameter	r test 1	Parameter te	st 2		Parameter test 3
Temp (°C)	13.2	2	13.2			13.2
рН	7.78		7.78	7.78		7.78
Electrical Conductivity (uS/cm)	634		634	634		634
TDS (ppt)	0.44 0.44		0.44			
Water Sample Observa	tions (field)					
Colour	Clear to slightly cl	oudy	Capped at ground lev	vel	Y / N	Flush
Odour Present	No		Other field related:		•	•
Sediment/Precipitate	No					
Free Product	No		Borehole lo	cated with	in the midd	le of a car space
Hydrocarbon Sheen	No					



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

MetroLink 18_9975 24/03/2021 Sunny, dry and co	ld		
24/03/2021 Sunny, dry and co	ld		1
Sunny, dry and co	ld		1
	ld		
NBH219B(D)	AZ Zone	AZ-4	
38	Туре:	PVC	
5.52	Total depth (mbtoc)	27.1	
5.62	S/P recess/ above g/l (m)	-0.10	
Hume Street locat	ed along stre	et parking area	
716187.85, 73338	6.16		
Tubing, Level & Field Meter AWN Consultant(s)			
neter:			
	Date:	22/03/2021	Time:
	March_2021		
	5.52 5.62 Hume Street locat 716187.85, 73338 Tubing, Level & Fi	5.52 Total depth (mbtoc) 5.62 S/P recess/ above g/l (m) Hume Street located along stree 716187.85, 733386.16 Tubing, Level & Field Meter neter: Date:	5.52 Total depth (mbtoc) 27.1 5.62 S/P recess/ above g/l (m) -0.10 Hume Street located along street parking area 716187.85, 733386.16 Tubing, Level & Field Meter AWN Consultant(s): neter: Date: 22/03/2021





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

Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	CD& PG		
QA Procedures for Multi-	meter:					
Last Field Calibration		Date:	22/03/2021	Time:	-	
Last Full Calibration		March_20	21			
Water Quality - Field Me	easurements					
Parameter	Parameter	r test 1	Parameter te	st 2		Parameter test 3
Temp (°C)	10.2	2	10.2			10.2
рН	7.43	3	7.43			7.43
Electrical Conductivity (uS/cm)	937		937			937
TDS (ppt)	0.66	6	0.66		0.66	
Water Sample Observat	tions (field)					
Colour	Brown to grey, tur	bid	Capped at ground level Y / N Flush		Flush	
Odour Present	No		Other field related:			
Sediment/Precipitate	Slight		Derehele leseted wit	امتع الم	ما ما م	n an a a D\/C alightly aut
Free Product	No		Borenole located wit		dale of a ca since Roun	r space. PVC slightly cut
Hydrocarbon Sheen	No			mineights	Since Roun	u 1.



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

Client:	Jacobs Engine	Jacobs Engineering, Ireland					
Project:	MetroLink						
Contract No:	18_9975	8_9975					
Date/Time	15/03/2021	5/03/2021					
Weather Conditions:	Overcast, dry a	overcast, dry and mild					
GW location ID:	NBH223(S)	AZ Zone	AZ-4				
Installation diameter (mm)	38	Туре:	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 colleg	Whitehall college - urban on grass verge					
GPS co-ordinates (ITM):	715484.97, 737	7307.3					
Sampling Equipment:	Tubing, Level &	& Field Meter	AWN Consultant(s):	CD& MA			
QA Procedures for Multi-	neter:						
Last Field Calibration		Date:	15/03/2021	Time:			
Last Full Calibration		March_2021					
Water Quality - Field Me	asurements						
Parameter	Parame	eter test 1	Parameter te	st 2			
Temp (°C)	1	2.2	12.2				



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

METROLINK

Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	ultant(s): CD& MA		
QA Procedures for Multi	-meter:					
Last Field Calibration		Date:	15/03/2021	Time:	-	
Last Full Calibration		March_2021				
Water Quality - Field M	leasurements					
Parameter	Parameter	r test 1	Parameter tes	st 2		Parameter test 3
Temp (°C)	12.2	2	12.2			12.2
рН	7.82	2	7.82			7.82
Electrical Conductivity (uS/cm)	827		827			827
TDS (ppt)	0.58	3	0.58	0.58		0.58
Water Sample Observa	ations (field)					
Colour	Merky to grey		Capped at ground lev	/el	Y / N	Flush
Odour Present	Slight organic		Other field related:			
Sediment/Precipitate	Slight					
Free Product	No		Quick re	echarge. V	Vell is sligh	tly artesian.
Hydrocarbon Sheen	No					



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

Jacobs Engineerin						
MetroLink						
18_9975	3_9975					
23/03/2021	3/03/2021					
Overcast, dry and	vercast, dry and cold					
NBH401	IBH401 AZ Zone AZ-1					
150	Туре:	PVC				
4.21	Total depth (mbtoc)	6				
4.07	S/P recess/ above g/l (m)	0.14				
Parkland	Parkland					
718499.7, 747695	5.24					
Tubing, Level & Fi	ield Meter	AWN Consultant(s):	CD& RD			
neter:						
	Date:	22/03/2021	Time:			
	March_2021					
asurements						
Parameter	test 1	Parameter tes	st 2			
11.04	4	11.04				
	18_9975 23/03/2021 Overcast, dry and NBH401 150 4.21 4.07 Parkland 718499.7, 747695 Tubing, Level & F neter: asurements Parameter	18_9975 23/03/2021 Overcast, dry and cold NBH401 AZ Zone 150 Type: 4.21 Total depth (mbtoc) 4.07 S/P recess/ above g/l (m) Parkland Steeld Meter Tubing, Level & Field Meter Date: March_2021 March_2021	18_9975 23/03/2021 Overcast, dry and cold NBH401 AZ Zone AZ-1 150 Type: PVC 4.21 Total depth (mbtoc) 6 4.07 S/P recess/ above g/l (m) 0.14 Parkland Tubing, Level & Field Meter AWN Consultant(s): neter: Date: 22/03/2021 March_2021 March_2021			





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

Sampling Equipment:	Tubing, Level & F	Tubing, Level & Field Meter		CD& RD			
QA Procedures for Mult	i-meter:						
Last Field Calibration		Date:	22/03/2021	Time:	-		
Last Full Calibration		March_202	1				
Water Quality - Field N	leasurements						
Parameter	Parameter	r test 1	Parameter te	st 2		Parameter test 3	
Temp (°C)	11.0	4	11.04			11.04	
рН	7.19)	7.19			7.19	
Electrical Conductivity (uS/cm)	837		837			837	
TDS (ppt)	0.55	5	0.55		0.55		
Water Sample Observa	ations (field)						
Colour	Clear		Capped at ground lev	/el	Y / N	Capped above ground	
Odour Present	No		Other field related:				
Sediment/Precipitate	No	No					
Free Product	No		Ground level is uneven around borehole				
Hydrocarbon Sheen	No						



Environmental setting:		Access constraints:
Parkland		None
Sample taken: Y / N	Laboratory	Report Ref:
Yes	EMT 21-429	2

Client:	Jacobs Engineer	acobs Engineering, Ireland			
Project:	MetroLink			1	
Contract No:	18_9975				
Date/Time	23/03/2021				
Weather Conditions:	Overcast, dry an	d cold		a a	
GW location ID:	NBH402	AZ Zone	AZ-1	The	
Installation diameter (mm)	150	Туре:	PVC	Dul T:	
SWL (mbtoc)	4.23	Total depth (mbtoc)	13	F: E:	
SWL (mBGL)	4.03	S/P recess/ above g/l (m)	0.20	W:	
General location details:	Parkland				
GPS co-ordinates (ITM):	718494.27, 7476	690.57			
Sampling Equipment:	Tubing, Level &	Field Meter	AWN Consultant(s):	CD& RD	
QA Procedures for Multi-	meter:				
Last Field Calibration		Date:	22/03/2021	Time: -	
Last Full Calibration		March_2021			
Water Quality - Field Me	asurements				
Parameter	Paramete	er test 1	Parameter te	st 2	
Temp (°C)	10	.3	10.3		
pН	7.1	4	7.14		
Electrical Conductivity (uS/cm)	59	9	599		

METROLINK



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

Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	CD& RD				
QA Procedures for Mult	i-meter:							
Last Field Calibration		Date:	22/03/2021	Time:	-			
Last Full Calibration March_2021			1					
Water Quality - Field N	leasurements							
Parameter	Parameter	r test 1	Parameter te	st 2		Parameter test 3		
Temp (°C)	10.3	3	10.3			10.3		
рН	7.14	1	7.14			7.14		
Electrical Conductivity (uS/cm)	599)	599			599		
TDS (ppt)	0.54	1	0.54	0.54		0.54		
Water Sample Observa	ations (field)							
Colour	Clear		Capped at ground lev	/el	Y / N	Capped above ground		
Odour Present	No	No		Other field related:				
Sediment/Precipitate	No	No						
Free Product	No		Ground level is uneven around borehole		nd borehole			
Hydrocarbon Sheen	No							



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

Client:	Jacobs Engineer	Jacobs Engineering, Ireland					
Project:	MetroLink			1.			
Contract No:	18_9975						
Date/Time	23/03/2021	23/03/2021					
Weather Conditions:	Overcast, dry and	d cold		Š	IW		
GW location ID:	NBH406	AZ Zone	AZ-1		he T		
Installation diameter (mm)	150	Туре:	PVC	D)ubli		
SWL (mbtoc)	4.87	Total depth (mbtoc)	18	F	: + : + : in		
SWL (mBGL)	4.66	S/P recess/ above g/l (m)	0.21	V	V: W		
General location details:	Residential						
GPS co-ordinates (ITM):	718547.12, 7474	31.91					
Sampling Equipment:	Tubing, Level & F	Field Meter	AWN Consultant(s):	CD& RD			
QA Procedures for Multi-	meter:						
Last Field Calibration		Date:	22/03/2021	Time:	-		
Last Full Calibration		March_2021					
Water Quality - Field Me	easurements						
Parameter	Paramete	er test 1	Parameter te	st 2			
Temp (°C)	11.9	92	11.92				
pН	7.4	2	7.42				
Electrical	68 [.]	1	681				





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

Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	CD& RD		
QA Procedures for Multi-	-meter:					
Last Field Calibration		Date:	22/03/2021	Time:	-	
Last Full Calibration		March_202	1			
Water Quality - Field M	easurements					
Parameter	Parameter	r test 1	Parameter te	st 2		Parameter test 3
Temp (°C)	11.9	2	11.92			11.92
рН	7.42	2	7.42			7.42
Electrical Conductivity (uS/cm)	681		681			681
TDS (ppt)	0.44	1	0.44			0.44
Water Sample Observa	tions (field)					
Colour	Clear to cloudy		Capped at ground lev	/el	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 Yes	Laboratory Report Ref: EMT 21-4292

Client:	Jacobs Engineerii	acobs Engineering, Ireland				
Project:	MetroLink	letroLink				
Contract No:	18_9975	3_9975				
Date/Time	22/03/2021					
Weather Conditions:	Overcast, dry and	mild				
GW location ID:	GBH06	AZ Zone	AZ-4			
Installation diameter (mm)	38	Туре:	PVC			
SWL (mbtoc)	10.96	Total depth (mbtoc)	15			
SWL (mBGL)	11.02	S/P recess/ above g/l (m)	-0.06	j		
General location details:	Park - gaelic pitch	of St. Vincen	t's School			
GPS co-ordinates (ITM):	714786.4, 736479	9.41				
Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	CD& RD		
QA Procedures for Multi-r	meter:					
Last Field Calibration		Date:	22/03/2021	Time:		
Last Full Calibration		March_2021				
Water Quality - Field Me	asurements					
Parameter	Parameter	r test 1	Parameter tes	st 2		
Temp (°C)	11.1	0	11.10			
pН	7.66	6	7.66			
Electrical	1		1			

METROLINK



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

Sampling Equipment:	Tubing, Level & F		AWN Consultant(s):	CD& RD		
QA Procedures for Multi	i-meter:					
Last Field Calibration		Date:	22/03/2021	Time:	-	
Last Full Calibration		March_202	21			
Water Quality - Field M	leasurements					
Parameter	Parameter	r test 1	Parameter te	st 2		Parameter test 3
Temp (°C)	11.1	0	11.10			11.10
рН	7.66	6	7.66			7.66
Electrical Conductivity (uS/cm)	640)	640			640
TDS (ppt)	0.41	I	0.41			0.41
Water Sample Observa	ations (field)					
Colour	Clear to merky		Capped at ground lev	vel	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 I	Report Ref:	
Yes	EUROFINS 2	EUROFINS 21-09222-0	

Client:	Jacobs Engineerir	acobs Engineering, Ireland					
Project:	MetroLink	letroLink					
Contract No:	18_9975	8_9975					
Date/Time	22/03/2021						
Weather Conditions:	Overcast dry and	mild					
GW location ID:	GBH09	AZ Zone	AZ-4				
Installation diameter (mm)	38	Туре:	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. Vincen	t's School				
GPS co-ordinates (ITM):	714644.32, 73660	94.33					
Sampling Equipment:	Tubing, Level & F	ield Meter	AWN Consultant(s):	CD& RD			
QA Procedures for Multi-r	neter:						
Last Field Calibration		Date:	22/03/2021	Time:			
Last Full Calibration	oration March_2021						
Water Quality - Field Me	asurements						
Parameter	Parameter	test 1	Parameter te	st 2			
Temp (°C)	10.24	4	10.24				



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

METROLINK

QA Procedures for Multi-	meter:					
Last Field Calibration		Date:	22/03/2021	Time:	-	
Last Full Calibration March_202		March_2021				
Water Quality - Field Me	easurements					
Parameter	Parameter	test 1	Parameter test 2		Parameter test 3	
Temp (°C)	10.24		10.24		10.24	
рН	7.33		7.33		7.33	
Electrical Conductivity (uS/cm)	488		488		488	
TDS (ppt)	0.44		0.44		0.44	
Water Sample Observat	ions (field)					
Colour	Merky to light brown, turbid		Capped at ground lev	el	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 F	Laboratory Report Ref:			
Yes	EUROFINS 2	EUROFINS 21-09222-0			