



TVA Installations (Stockport) Limited

Re: Lampwick Apartments, Manchester

Terrestrial TV Reception Survey

20th March 2021

TVA Installations have been instructed to carry out a Terrestrial television reception survey. The purpose is to record the present signal levels and digital quality from the Winter Hill transmitter, which provides “free-view to this area of Manchester. Satellite signals are not part of this survey. (See 3.6 of Ofcom document)

The tests are carried out at various locations which are in the potential impact area behind the proposed development site. We use powered access to reach an elevated level, similar to a typical house, where we take readings and record a skyline picture. The locations, pictures and levels are numbered and are identified on the test sheets and map.

This is the second test carried out to record the signals and quality now that the development has been completed. This will conclude what impact, if any has occurred. The Winter Hill Transmitter has undergone a major frequency change since the last survey. Channel numbers have now changed

Attached to this survey is the OFCOM document relating to tall structures

Lampwick Apartments Signal Reception Survey Test Number One

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	34	52	54	61	54	62	61
Quality	NL	M	M	M	M	M	P



Lampwick Apartments Signal Reception Survey Test Number 2

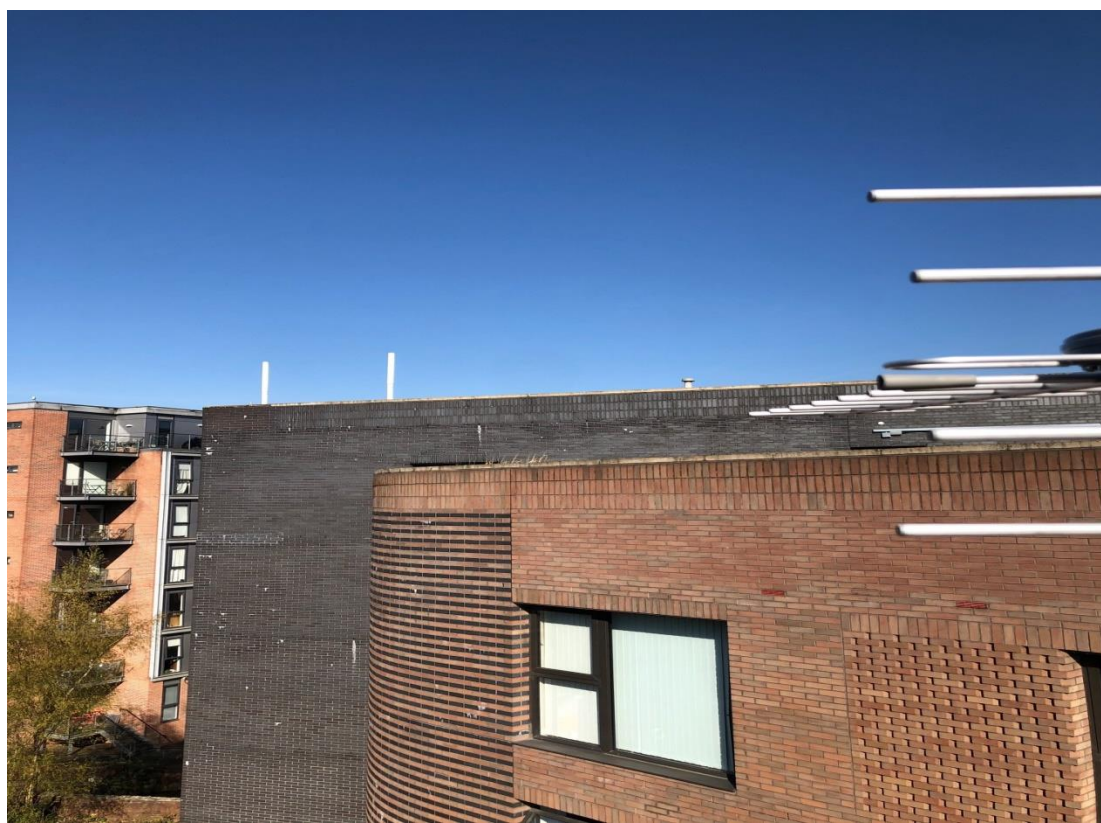
Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	32	52	53	52	46	50	51
Quality	M	M	F	F	M	M	M



Lampwick Apartments Signal Reception Survey Test Number 3

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuv and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	41	59	64	59	55	57	59
Quality	M	P	M	P	M	P	P



Lampwick Apartments Signal Reception Survey Test Number 4

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	43	63	60	56	61	60	61
Quality	M	P	P	P	M	P	P



Lampwick Apartments Signal Reception Survey Test Number 5

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	51	74	76	73	71	76	75
Quality	P	P	P	P	P	P	P



Lampwick Apartments Signal Reception Survey Test Number 6

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	48	73	71	68	72	71	72
Quality	P	P	P	P	P	P	P



Lampwick Apartments Signal Reception Survey Test Number 7

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	48	81	82	81	78	78	79
Quality	P	P	P	P	P	P	P



Lampwick Apartments Signal Reception Survey Test Number 8

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	47	78	78	78	76	75	76
Quality	P	P	P	P	P	P	P



Lampwick Apartments Signal Reception Survey Test Number 9

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	47	60	67	49	58	55	65
Quality	M	P	P	M	P	P	P



Lampwick Apartments Signal Reception Survey Test Number 10

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	34	52	56	51	52	52	52
Quality	NL	F	F	F	F	M	F



Lampwick Apartments Signal Reception Survey Test Number 11

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	30	57	57	54	55	51	52
Quality	F	F	M	M	F	M	M



Lampwick Apartments Signal Reception Survey Test Number 12

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	34	63	59	64	58	59	59
Quality	NL	M	M	P	P	F	P



Lampwick Apartments Signal Reception Survey Test Number 13

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	26	55	50	52	57	51	59
Quality	NL	M	P	M	P	M	M



Lampwick Apartments Signal Reception Survey Test Number 14

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	23	45	50	49	47	49	47
Quality	NL	F	M	M	M	M	F



Lampwick Apartments Signal Reception Survey Test Number 15

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	37	58	58	59	57	55	56
Quality	M	P	P	P	P	P	P



Lampwick Apartments Signal Reception Survey Test Number 16

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	46	68	67	66	64	64	66
Quality	P	P	P	P	P	P	P



Lampwick Apartments Signal Reception Survey Test Number 17

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	45	67	68	70	66	69	69
Quality	P	P	P	P	P	P	P



Lampwick Apartments Signal Reception Survey Test Number 18

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	36	70	72	72	74	72	75
Quality	P	P	P	P	P	P	P



Lampwick Apartments Signal Reception Survey Test Number 19

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	36	54	58	64	53	55	65
Quality	M	P	M	M	P	M	P



Lampwick Apartments Signal Reception Survey Test Number 20

Signals Tested From the Winter Hill Transmitter

Tested from location one as indicated on map

DCP = Digital Channel Power measured in dBuV, min of 45dBuV and max of 70dBuV required at the receiver

Signal Quality given as pass marginal or fail. NL = not locking, signal too low to for the meter to lock on.

UHF Channel Number	27	29	31	32	34	35	37
MUX	Local	COM4	COM5	PSB1	PSB2	PSB3	COM6
Frequency in MHz	522.000	538.000	554.000	562.000	578.000	585.883	602.000
DCP	48	80	81	78	80	78	80
Quality	P	P	P	P	P	P	P

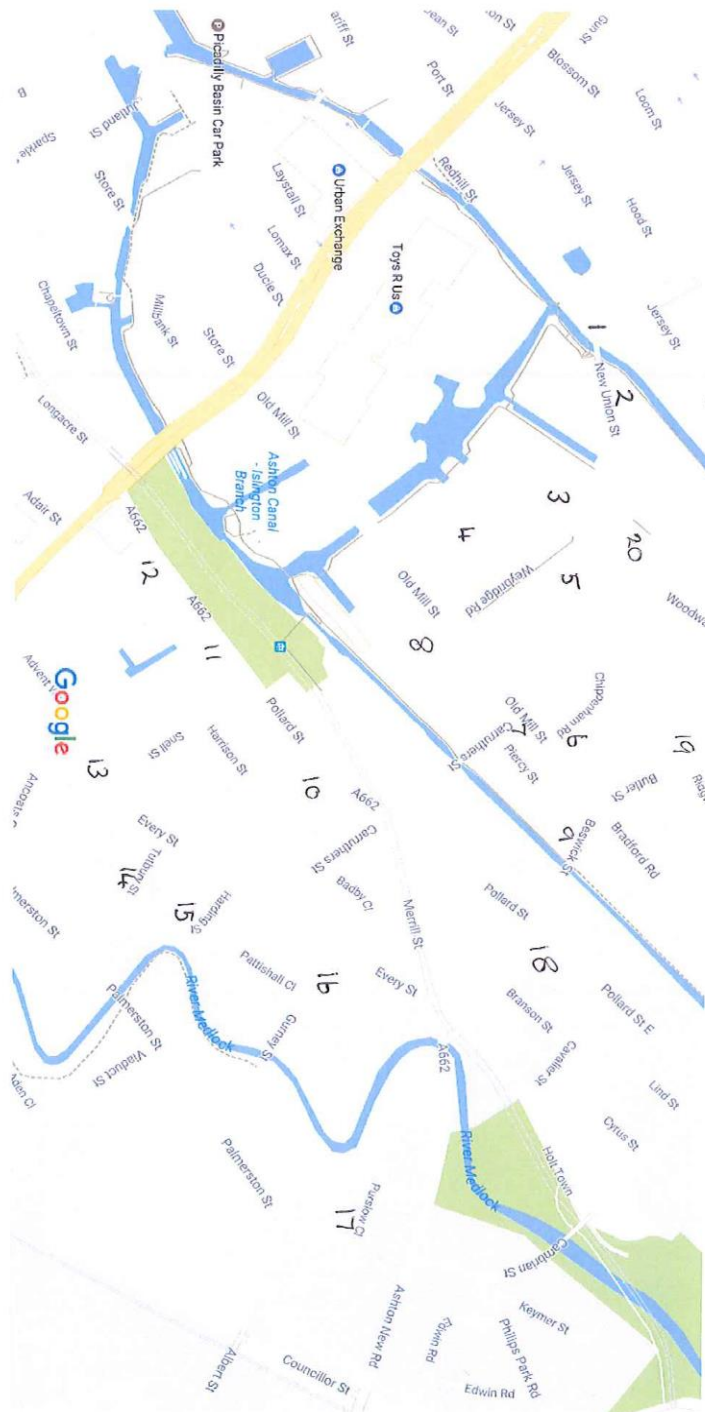


Map indicating test Locations

Google Maps

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Google Maps



Map data ©2017 Google 100 m

Conclusions

Further to our recent site survey we report as follows.

The tests were carried out using a ROVER TAB 4, spectrum analyser and a UHF “yagi” aerial array.

We obtained twenty test results during the course of the day, as per the pre-construction survey.

The tests that we carried out, have built up a general picture of TV reception in the area behind the development

Based on the previous tests carried out in March 2017, it is of my opinion looking at the signal levels, and quality, there has been a significant reduction of signals not locking on, or failing. This improvement is mainly due to the frequency change from the Winter Hill Transmitter. We can say that this development has not caused any disruption to TV services.

We trust that this meets with your approval

Yours sincerely

For TVA Installations (Stockport) Ltd

Alan Murthwaite MSCTE

Contracts Manager



Approved SMATV & Building Management System Design & Installation Engineers

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