TEST POINT 7

Stockton Street

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TEST POINT LOCATION 7

Stockton Street

NGR:	SJ 83466 95937
Alt:	32m
Mast Height:	10m
Existing Aerial Arrays:	18 element aerial on a 1m mast, mounted at gutter height on a two-storey building, directed towards the Winter Hill Transmitter.
Existing Obstructions:	Local four-storey building, church steeple and tower blocks beyond, all in the direction of the Winter Hill Transmitter.

REPORT – WINTER HILL TRANSMITTER

- Analogue reception has low signal strengths and ghosting is present.
- Digital reception has low signal strengths and corruption is being received.

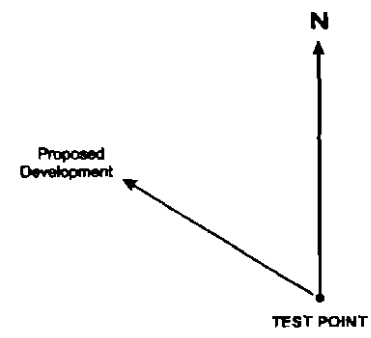
Analogue Results – Winter Hill Transmitter

Channel	Programme	Level (dBmv)	CCIR Grade	Audio
48	Channel 5	-17	2 (G)	Good
55	BBC 1	-14	2 (G)	Good
59	ITV	-16	1 (G)	Interference
62	BBC 2	-19	2 (G)	Good
65	Channel 4	-16	2 (G)	Good

Digital Results – Winter Hill Transmitter

Channel	Level	BER	CSI	Quality
56	-27	-5	29%	Marginal
60	-26	-1	56%	Fail
63	-19	-7	18%	Pass
66	-23	-3	47%	Fail
67	-22	-7	25%	Pass
68	-27	-2	60%	Fail

Location	BRG	Distance
Winter Hill Tx	316°	25.43km
Proposed Development	301°	0.18km



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Photograph 7: Typical type of television aerial located in the area of Test Point 7

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TEST POINT 8

Greenheys Lane

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TEST POINT LOCATION 8

Greenheys Lane

NGR: SJ 83384 96177

Alt: 33m

Mast Height: 10m

Existing Aerial Arrays: 10 element aerials on 1m masts, mounted at gutter height on two-storey buildings, directed towards the Winter Hill Transmitter. Some properties have no visible television aerials; these could be located within the roof spaces.

Existing Obstructions: Various three and four-storey buildings and local tower blocks in the general direction of the Winter Hill Transmitter.

REPORT – WINTER HILL TRANSMITTER

- Analogue reception has low signal strengths and ghosting is present.
- Digital reception has low signal strengths and corruption is being received.

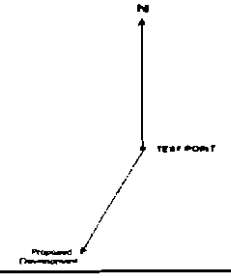
Analogue Results – Winter Hill Transmitter

Channel	Programme	Level (dBmv)	CCIR Grade	Audio
48	Channel 5	-18	2 (G)	Good
55	BBC 1	-5	3 (G)	Good
59	ITV	-13	2 (G)	Good
62	BBC 2	-7	3 (G)	Good
65	Channel 4	-14	2 (G)	Good

Digital Results – Winter Hill Transmitter

Channel	Level	BER	CSI	Quality
56	-21	-7	17%	Pass
60	-17	-7	12%	Pass
63	-16	-7	12%	Pass
66	-23	-4	51%	Fail
67	-21	-5	30%	Marginal
68	-24	-2	53%	Fail

Location	BRG	Distance
Winter Hill Tx	316°	25.20km
Proposed Development	207°	0.17km



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Photograph 8: Typical type of television aerial located in the area of Test Point 8

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TEST POINT 9

St Mary' s Street

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TEST POINT LOCATION 9

St Mary' s Street

NGR: SJ 83424 96107

Alt: 33m

Mast Height: 10m

Existing Aerial Arrays: 10 element aerial on a 2m mast, mounted at roof top height on a two-storey building, directed towards the Winter Hill Transmitter. Many properties have no visible television aerials; these could be fitted within the roof spaces or be served via a communal television system.

Existing Obstructions: Various multi-storey buildings, with tower blocks beyond in the general direction of the Winter Hill Transmitter.

REPORT – WINTER HILL TRANSMITTER

- Analogue reception has ghosting present.
- Digital reception is of an acceptable quality and strength.

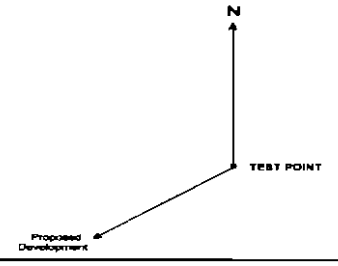
Analogue Results – Winter Hill Transmitter

Channel	Programme	Level (dBmv)	CCIR Grade	Audio
48	Channel 5	-4	4 (G)	Good
55	BBC 1	+3	4 (G)	Good
59	ITV	0	4 (G)	Good
62	BBC 2	+4	4 (G)	Good
65	Channel 4	+1	4 (G)	Good

Digital Results – Winter Hill Transmitter

Channel	Level	BER	CSI	Quality
56	-11	-7	10%	Pass
60	-9	-7	8%	Pass
63	-5	-7	7%	Pass
66	-11	-7	21%	Pass
67	-10	-7	9%	Pass
68	-12	-7	25%	Pass

Location	BRG	Distance
Winter Hill Tx	316°	25.27km
Proposed Development	236°	0.14km



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Photograph 9: Typical type of television aerial located in the area of Test Point 9

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TEST POINT 10

Parsonage Street / St Mary' s Street

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TEST POINT LOCATION 10

Junction of Parsonage Street and St Mary' s Street

NGR:	SJ 83458 96032
Alt:	32m
Mast Height:	10m
Existing Aerial Arrays:	10 element aerials on 1m and 2m masts, mounted at roof top or gutter height on two-storey buildings, directed towards the Winter Hill Transmitter.
Existing Obstructions:	Church and tower blocks in the direction of the Winter Hill Transmitter.

REPORT – WINTER HILL TRANSMITTER

- Analogue reception has low signal strengths and ghosting is present.
- The digital services cannot be received at this location.

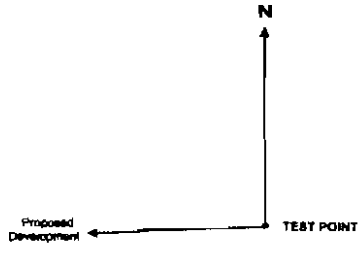
Analogue Results – Winter Hill Transmitter

Channel	Programme	Level (dBmv)	CCIR Grade	Audio
48	Channel 5	-26	1 (G)	Interference
55	BBC 1	-17	2 (G)	Good
59	ITV	-21	1 (G)	Good
62	BBC 2	-23	1 (G)	Good
65	Channel 4	-19	2 (G)	Good

Digital Results – Winter Hill Transmitter

Channel	Level	BER	CSI	Quality
56	Not Receivable			
60				
63				
66				
67				
68				

Location	BRG	Distance
Winter Hill Tx	316°	25.35km
Proposed Development	268°	0.15km



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Photograph 10: Typical type of television aerial located in the area of Test Point 10

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TEST POINT 11

Alexandra Road

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TEST POINT LOCATION 11

Alexandra Road (21)

NGR:	SJ 83348 95862
Alt:	32m
Mast Height:	10m
Existing Aerial Arrays:	10 element aerials on 1m and 2m masts, mounted at roof top or gutter height on two-storey buildings, directed towards the Winter Hill Transmitter.
Existing Obstructions:	Tower blocks in the general direction of the Winter Hill Transmitter.

REPORT – WINTER HILL TRANSMITTER

- Analogue reception has low signal strengths and ghosting is present.
- Digital reception has low signal strengths and corruption is being received.

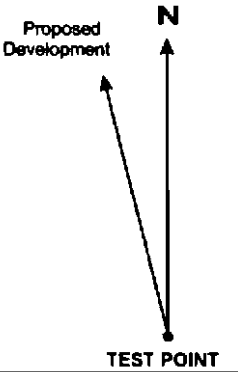
Analogue Results – Winter Hill Transmitter

Channel	Programme	Level (dBmv)	CCIR Grade	Audio
48	Channel 5	-14	3 (G)	Good
55	BBC 1	0	3 (G)	Good
59	ITV	-4	3 (G)	Good
62	BBC 2	-19	1 (G)	Good
65	Channel 4	-16	2 (G)	Good

Digital Results – Winter Hill Transmitter

Channel	Level	BER	CSI	Quality
56	-20	-7	17%	Pass
60	-15	-3	27%	Fail
63	-18	-7	14%	Pass
66	-21	-5	42%	Marginal
67	-23	-6	25%	Pass
68	-24	-3	49%	Fail

Location	BRG	Distance
Winter Hill Tx	317°	25.40km
Proposed Development	346°	0.17km



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Photograph 11: Typical type of television aerials located in the area of Test Point 11

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TEST POINT 12

William Kay Close

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TEST POINT LOCATION 12

William Kay Close (1-7)

NGR: SJ 83273 95852

Alt: 32m

Mast Height: 10m

Existing Aerial Arrays: 10 element aerials on 1m and 2m masts, mounted at roof top or gutter height on two-storey buildings, directed towards the Winter Hill Transmitter.

Existing Obstructions: Tower blocks in the direction of the Winter Hill Transmitter.

REPORT – WINTER HILL TRANSMITTER

- Analogue reception has low signal strengths and ghosting is present.
- Digital has low signal strengths but the quality is acceptable.

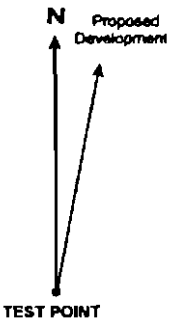
Analogue Results – Winter Hill Transmitter

Channel	Programme	Level (dBmv)	CCIR Grade	Audio
48	Channel 5	-19	2 (G)	Good
55	BBC 1	-12	3 (G)	Good
59	ITV	-11	3 (G)	Good
62	BBC 2	-4	3 (G)	Good
65	Channel 4	-7	3 (G)	Good

Digital Results – Winter Hill Transmitter

Channel	Level	BER	CSI	Quality
56	-21	-7	16%	Pass
60	-16	-7	20%	Pass
63	-12	-7	9%	Pass
66	-18	-7	34%	Pass
67	-17	-7	14%	Pass
68	-20	-6	36%	Pass

Location	BRG	Distance
Winter Hill Tx	317°	25.36km
Proposed Development	11°	0.18km



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Photograph 12: Typical type of television aerials located in the area of Test Point 12

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SUMMARY
AND
CONCLUSIONS

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SUMMARY

1. THE PROPOSED DEVELOPMENT

(i) The proposed development, Phase 4, is to be located at the southern end of the Loreto College Campus, adjacent to Chichester Road south.

(ii) The proposed building is to be five-storeys high, including the ground floor with a maximum height of approximately 23.1m.

(iii) At the time of surveying there was no existing building at the proposed development location.

A series of photographs have been taken to highlight the location of the proposed development and surrounding buildings:

Photograph A:	The proposed development location.
Photograph B:	Tower blocks directly to the north of the proposed development.
Photograph C+D:	Church and hall located directly to the east of the proposed development.
Photograph E:	Five-storey building located to the south of the proposed development.

2. TELEVISION RECEPTION

(i) Viewers in the area surrounding area to the proposed development are receiving their television signals from the Winter Hill Transmitter located to the northwest.

(ii) The Winter Hill Transmitter broadcasts the five analogue channels, BBC1, BBC2, ITV, Channel 4 and Channel 5, as well as the six Digital Multiplexers required for the Digital Terrestrial Television Services (DTTV).

(iii) The test results show that within the area surveyed, impairments to television reception are being received. These impairments consist of low signal strengths on both analogue and digital broadcasts, ghosting on the analogue services and in some instances corruption of the digital services.

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Photograph A



Photograph B

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Photograph C



Photograph D

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Photograph E

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CONCLUSIONS

The beampath (direction) of viewers' television aerials in the surrounding area to the proposed development is to the northwest, in the direction of the Winter Hill Transmitter. Due to this we would anticipate impairments to television reception for viewers located to the southeast, whose aerial beampath passes through, or within close proximity to, the proposed development. In the case of Phase 4, Loreto College, certain factors must be taken into account.

Directly to the southeast, on the opposite side of Chichester Road to the proposed development location, there is a church and church hall (please refer to photographs C+D within the summary), beyond these there is a five-storey building situated at the junction of Alexandra Road and Moss Lane east.

These existing buildings will shadow the proposed development from further areas to the southeast subsequently minimising any potential impact to television reception which could have occurred due to the introduction of the proposed Phase 4 building at Loreto College.

Taking into account the results and information recorded during the survey and points raised within the Summary and Conclusions, we are able to plot an area, shown on Map 2, where we envisage impairments to television reception could occur due to the introduction of Phase 4, Loreto College.

Please note that if tower cranes are used on site during the construction process, these could have a greater impact to television reception than the completed development. This impact would be for the duration of time that the tower cranes are present.

Signed:..... Dated: 19 February 2008

K BODEN

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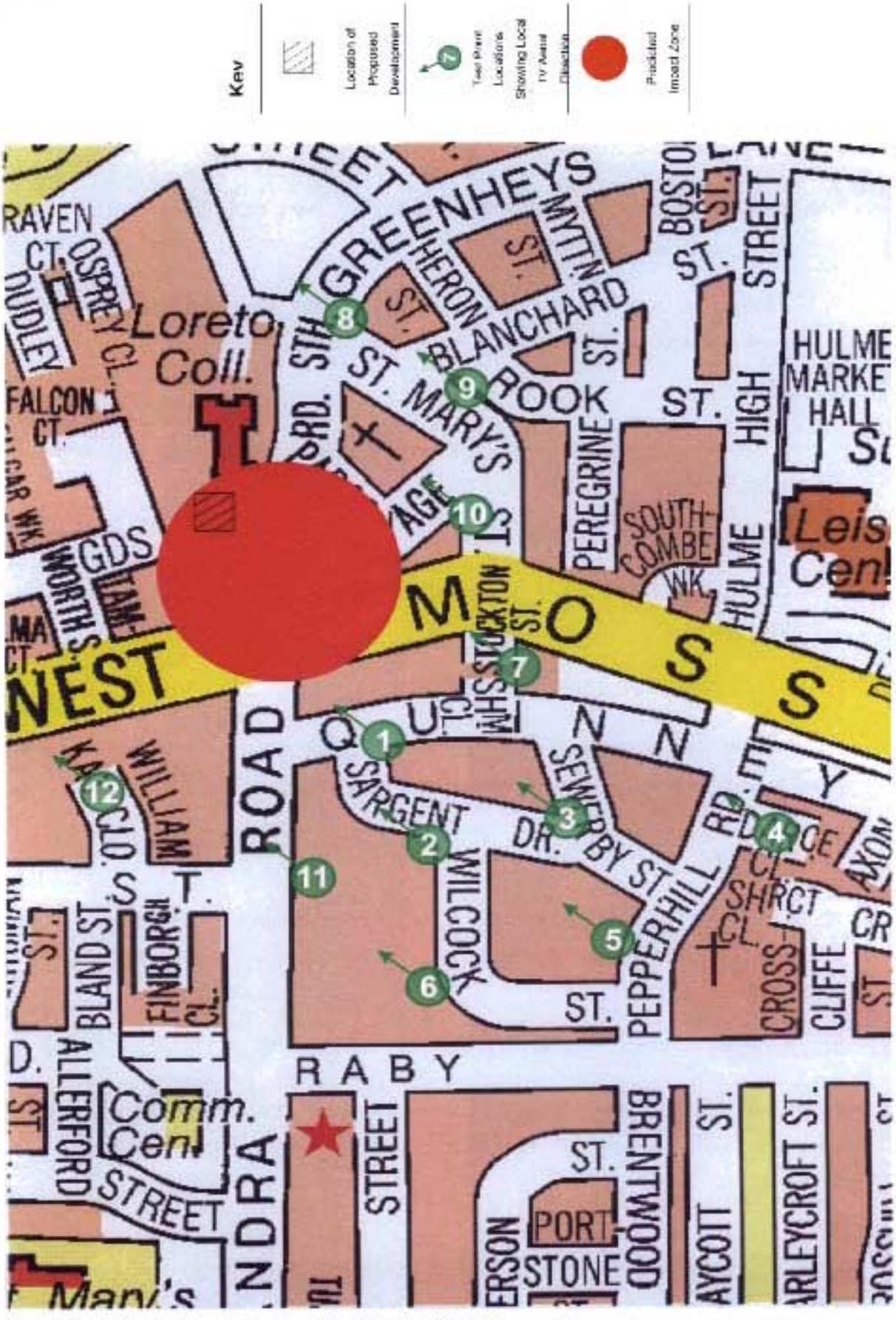

Map 2 – Predicted Impact Zone

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POSSIBLE REMEDIES

Possible remedies for viewers located in these areas are as follows:

1. REMEDIAL AERIAL WORK

   One or all of the following may help reduce impairments being received.

   (i) CHANGE OF AERIAL TYPE

   Different types of aerials receive signals in different ways and selecting an aerial most suited for the interference being received may be required.

   (ii) CHANGE OF AERIAL HEIGHT

   In some cases increasing or decreasing the aerial height can reduce interference being received.

   (iii) RELOCATION OF THE AERIAL

   Moving the receiving aerial to a position on the property where it is less prone to the interference.

2. DIGITAL TERRESTRIAL TELEVISION (DTTV)

   DTTV is less prone to reflections but would require the installation of a Set Top Box, and a possible aerial upgrade may be required to receive the digital signals.

3. SATELLITE TV

   When terrestrial television cannot be received at an acceptable quality and strength the installation of a satellite dish and set top box may be required. Please note that this may incur subscription charges.

4. IRS (INTEGRATED RECEPTION SYSTEM)

   When one master satellite dish and/or television aerial is sited for optimum reception and via a network of amplifiers, splitters and cable, multiple television outlets can be fed.

5. REMOTE TV AERIAL

   When a remote TV aerial is positioned in a good quality reception location, which could be a considerable distance away from the affected reception area. The television signals are then distributed to the affected viewers via a cable and amplifier network

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