



Greater Manchester Clean Air Plan

TfGM

Distributional Impacts – Map Book



FIGURE 1

- Legend
- Greater Manchester Boundary
 - Local Authority Boundary



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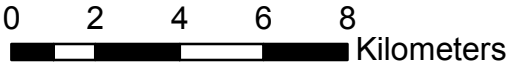
Greater Manchester Clean Air Plan

Drawing Title

Greater Manchester and Council Boundaries

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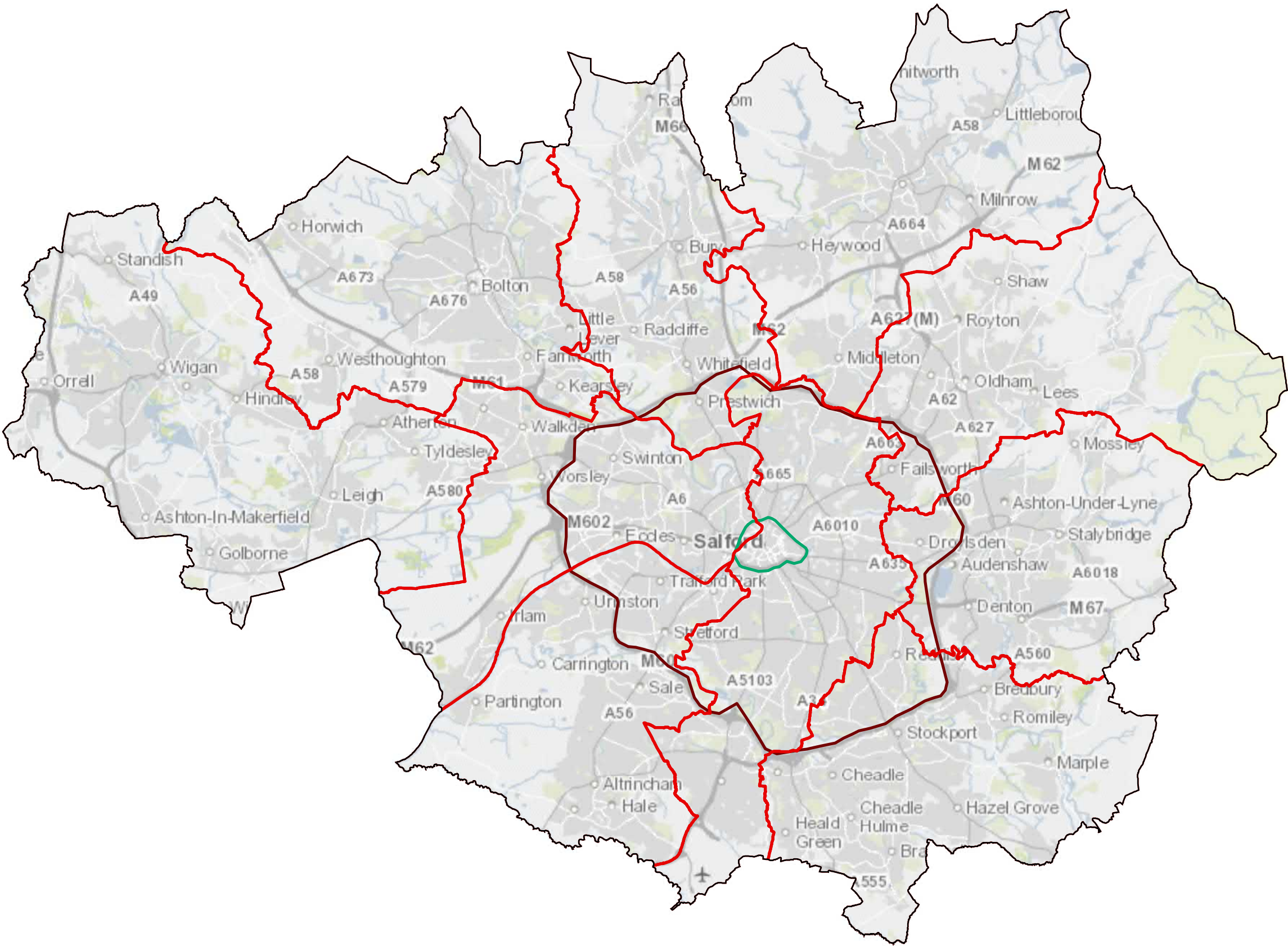


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FIGURE 2

- Legend
- Greater Manchester Boundary
 - Local Authority Boundary
 - Inner Ring Road
 - M60



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Greater Manchester Key Study Areas

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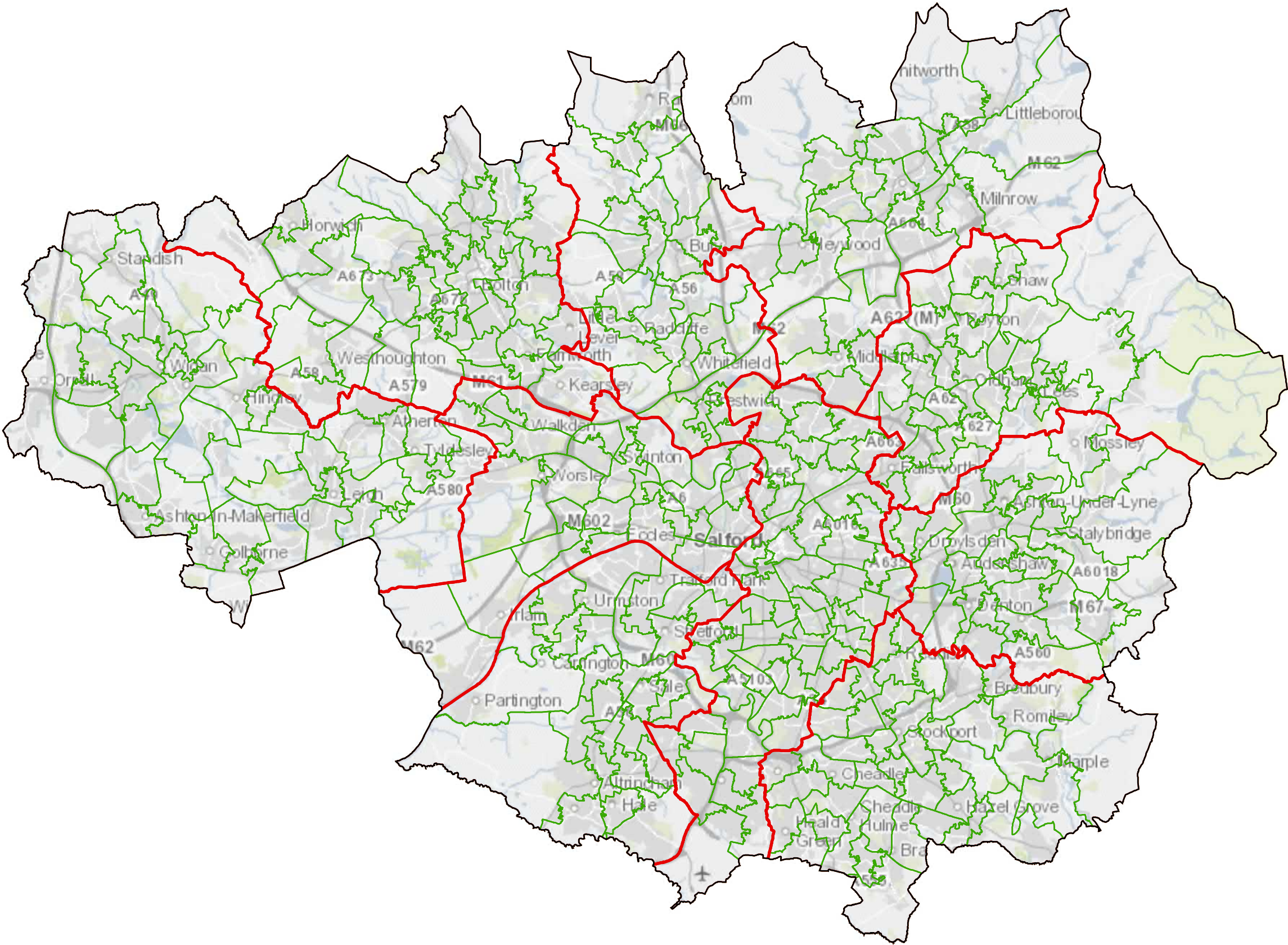
0 2 4 6 8 Kilometers

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FIGURE 3

- Legend
- Greater Manchester Boundary
 - Local Authority Boundary
 - Greater Manchester MSOA Boundary



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Drawing Title

Greater Manchester Middle Super Output Areas (MSOAs)

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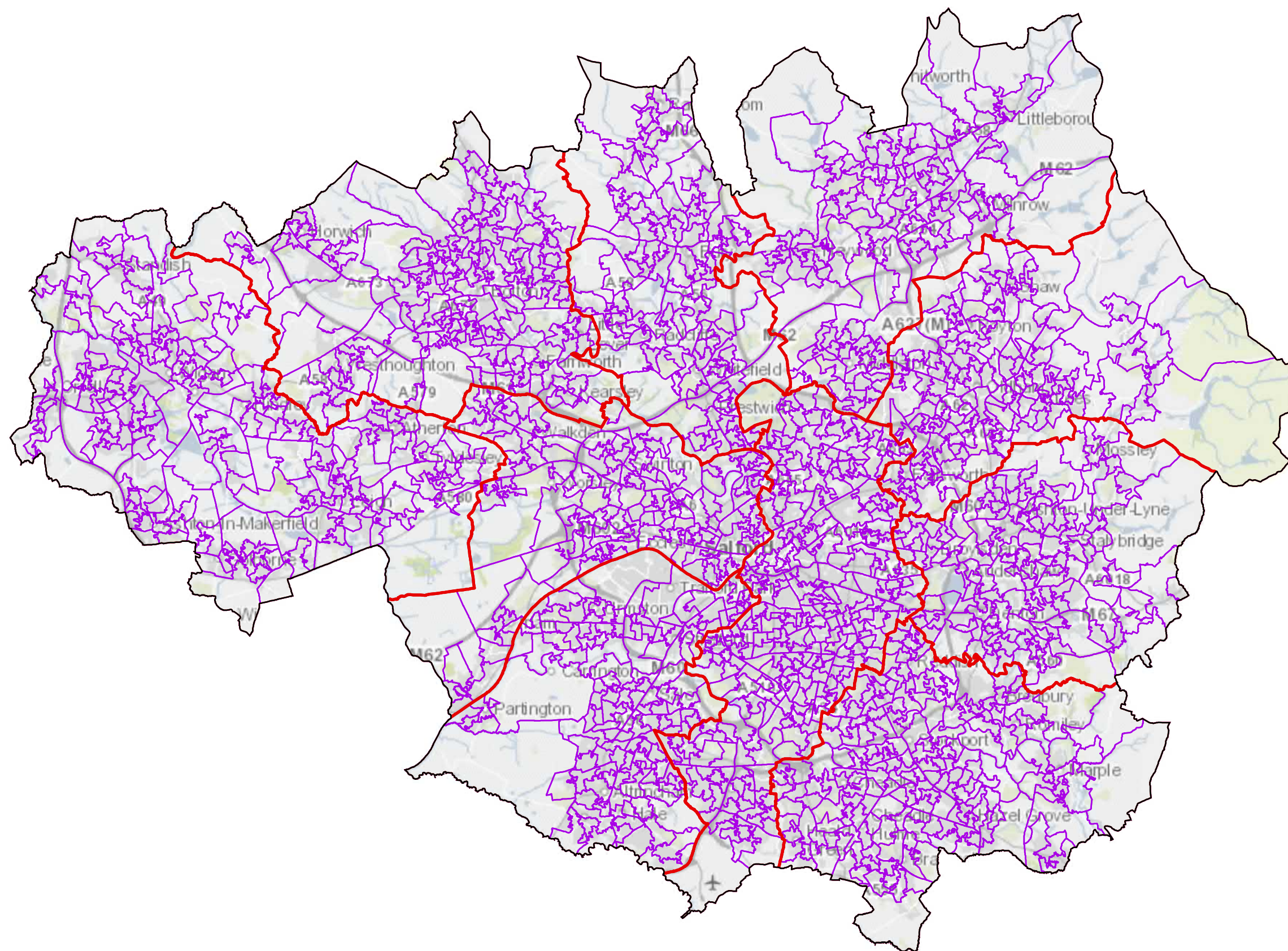
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FIGURE 4

- Legend
- Greater Manchester Boundary
 - Local Authority Boundary
 - Greater Manchester LSOA Boundary



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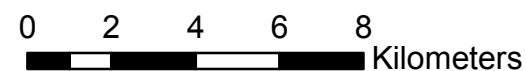
Greater Manchester Clean Air Plan

Drawing Title

Greater Manchester Lower Super Output Areas (LSOAs)

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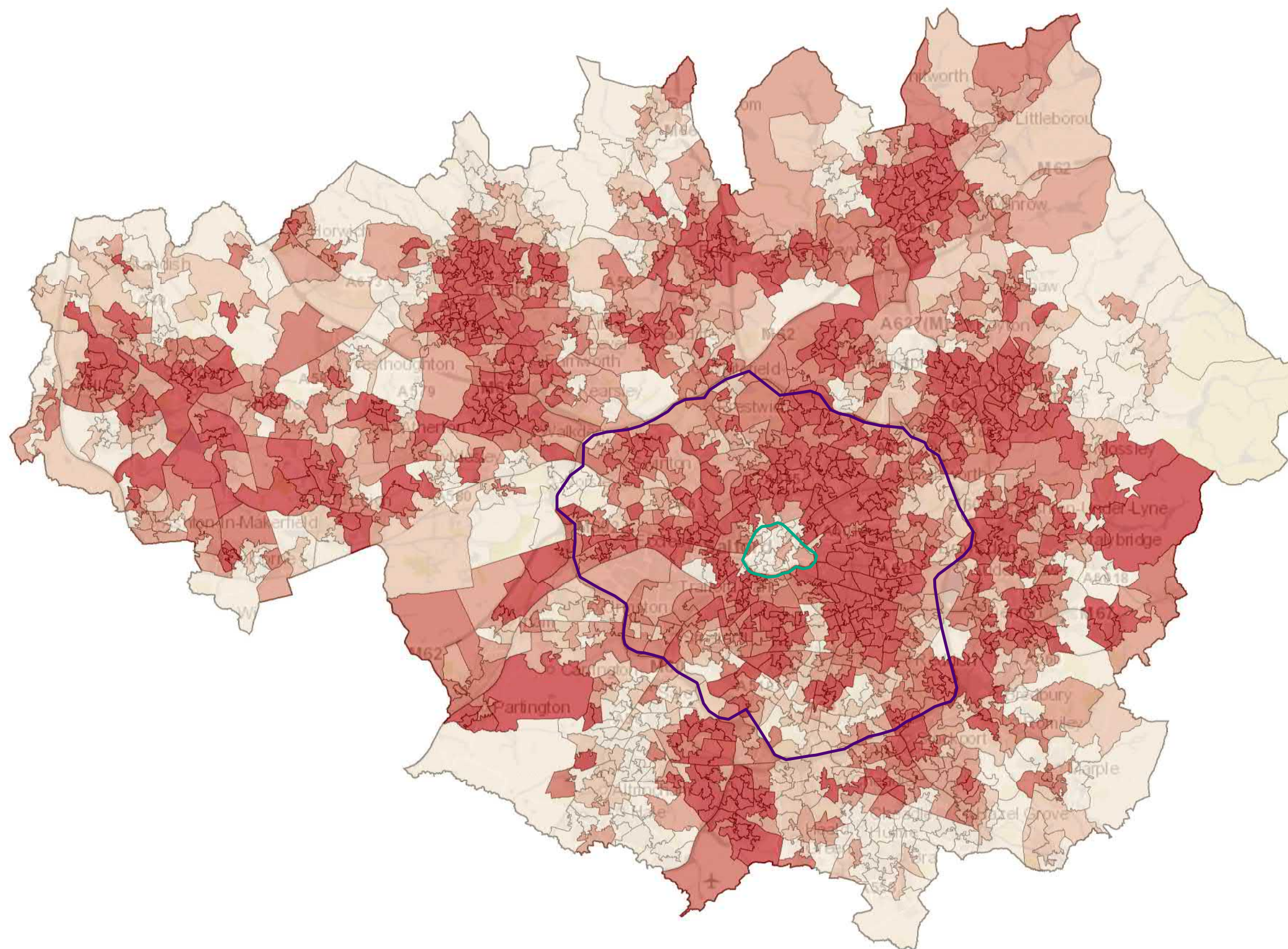
FIGURE 5

Legend

- Greater Manchester Boundary
- Inner Ring Road
- M60

Income Deprivation Quintiles

- 1= 0-20% (most deprived)
- 2= 20-40%
- 3= 40-60%
- 4= 60-80%
- 5= 80-100% (least deprived)



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| Drawing Title | Income Deprivation by Quintile Based on the distribution across England and Wales |
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Kilometers

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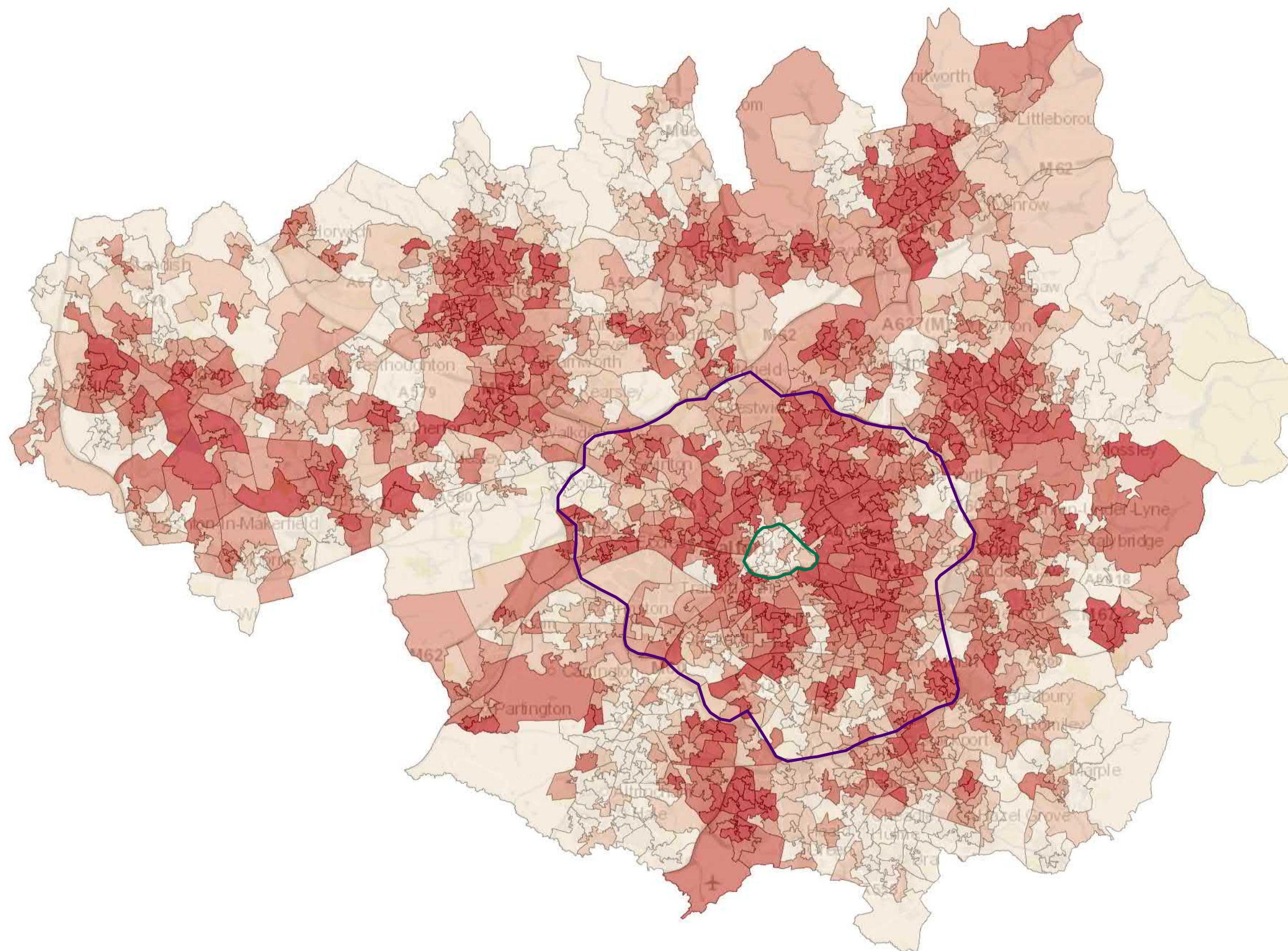
FIGURE 6

Legend

- Greater Manchester Boundary
- Inner Ring Road
- M60

Income Deprivation Quintiles

- 1= 0-20% (most deprived)
- 2= 20-40%
- 3= 40-60%
- 4= 60-80%
- 5= 80-100% (least deprived)



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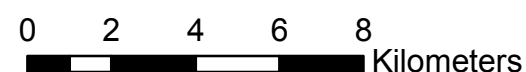
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Drawing Title
Income Deprivation by Quintile
Based on the distribution across Greater Manchester

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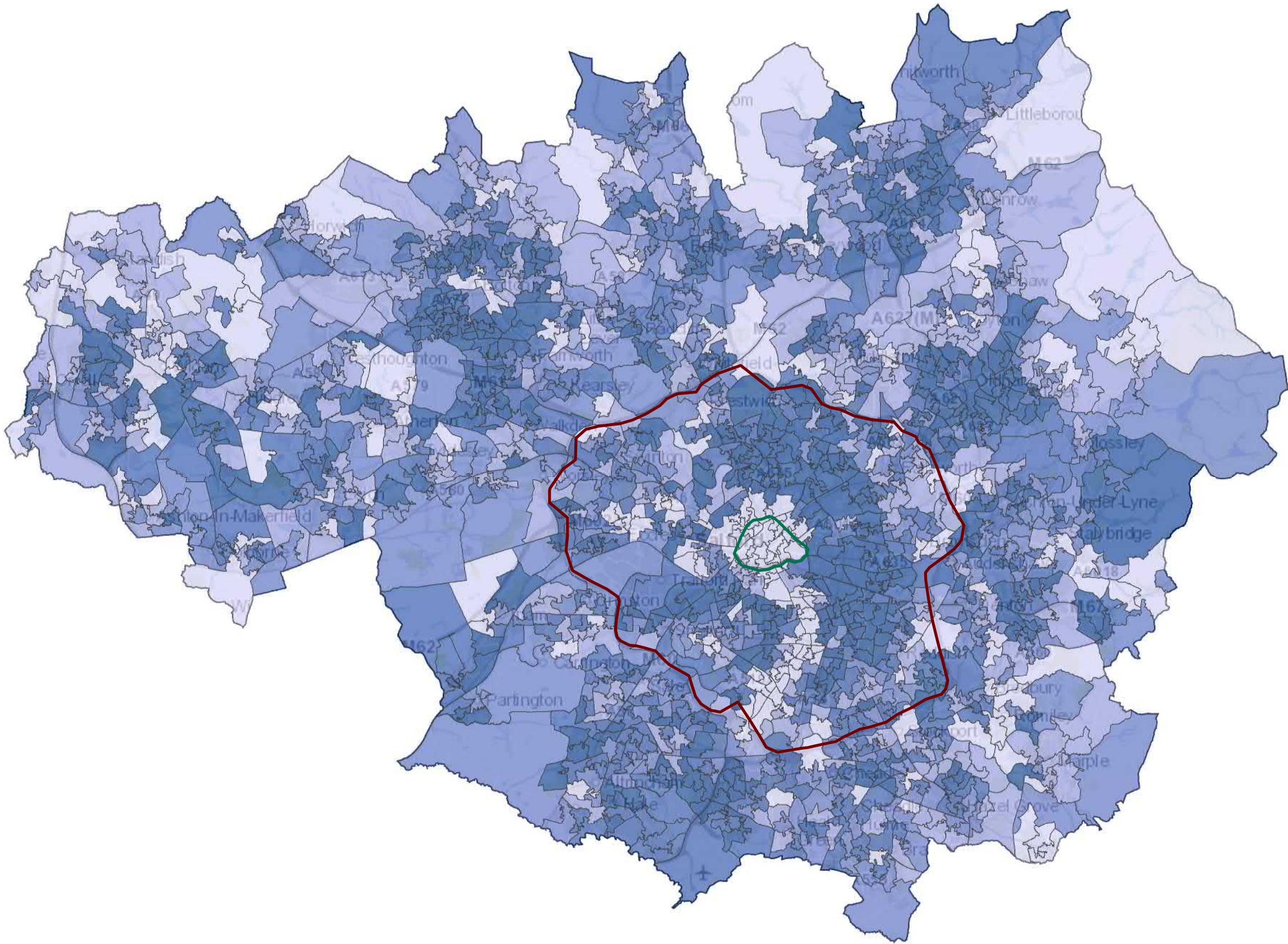


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FIGURE 7

- Legend
- Greater Manchester Boundary
 - Inner Ring Road
 - M60
- Under 16 Quintiles**
- 1= 0-20% (most under 16s)
 - 2= 20-40%
 - 3= 40-60%
 - 4= 60-80%
 - 5=80-100% (least under 16s)



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Drawing Title

Proportion of Under 16s by Quintile
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Kilometers

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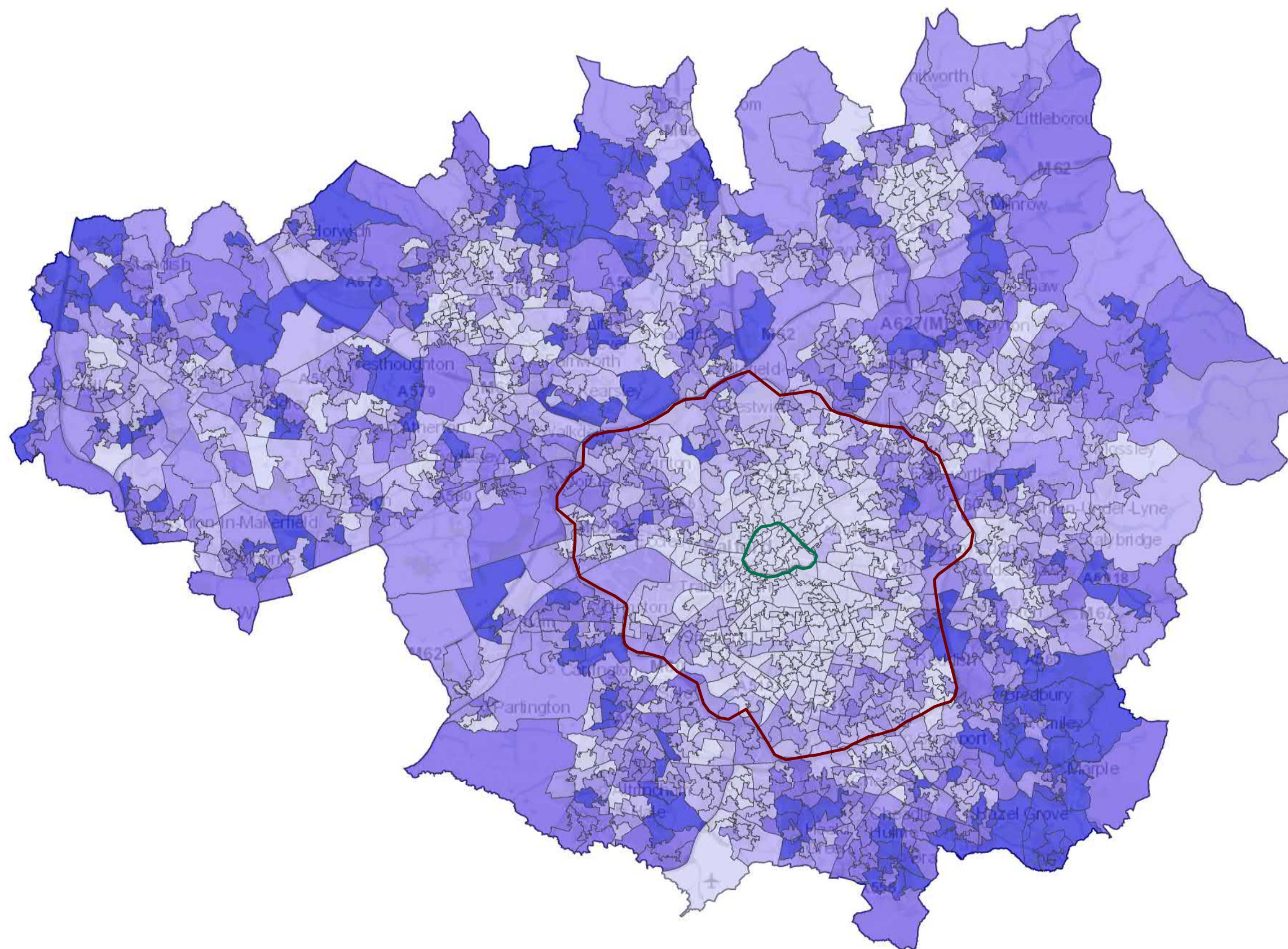
FIGURE 8

Legend

- Greater Manchester Boundary
- Inner Ring Road
- M60

Over 65 Quintiles

- 1= 0-20% (most over 65s)
- 2= 20-40%
- 3= 40-60%
- 4= 60-80%
- 5= 80-100% (least under 65s)



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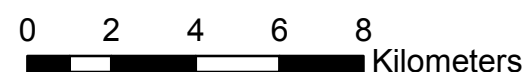
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Drawing Title
Proportion of Over 65s by Quintile
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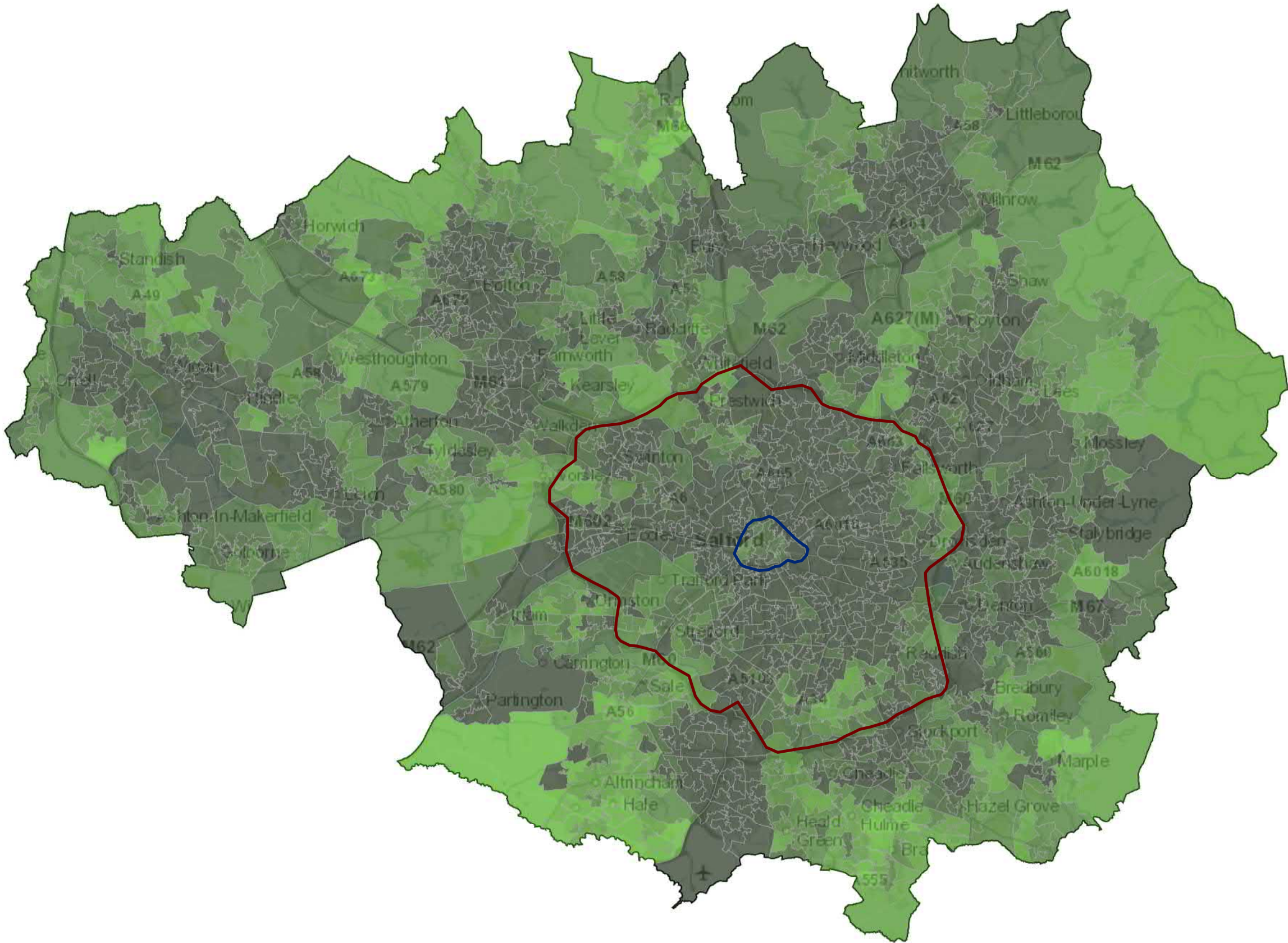


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FIGURE 9

- Legend
- Greater Manchester Boundary
 - Inner Ring Road
 - M60
- Health Deprivation Quintiles
- 1= 0-20% (most deprived)
 - 2= 20-40%
 - 3= 40-60%
 - 4= 60-80%
 - 5= 80-100% (least deprived)



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0 2 4 6 8 Kilometers

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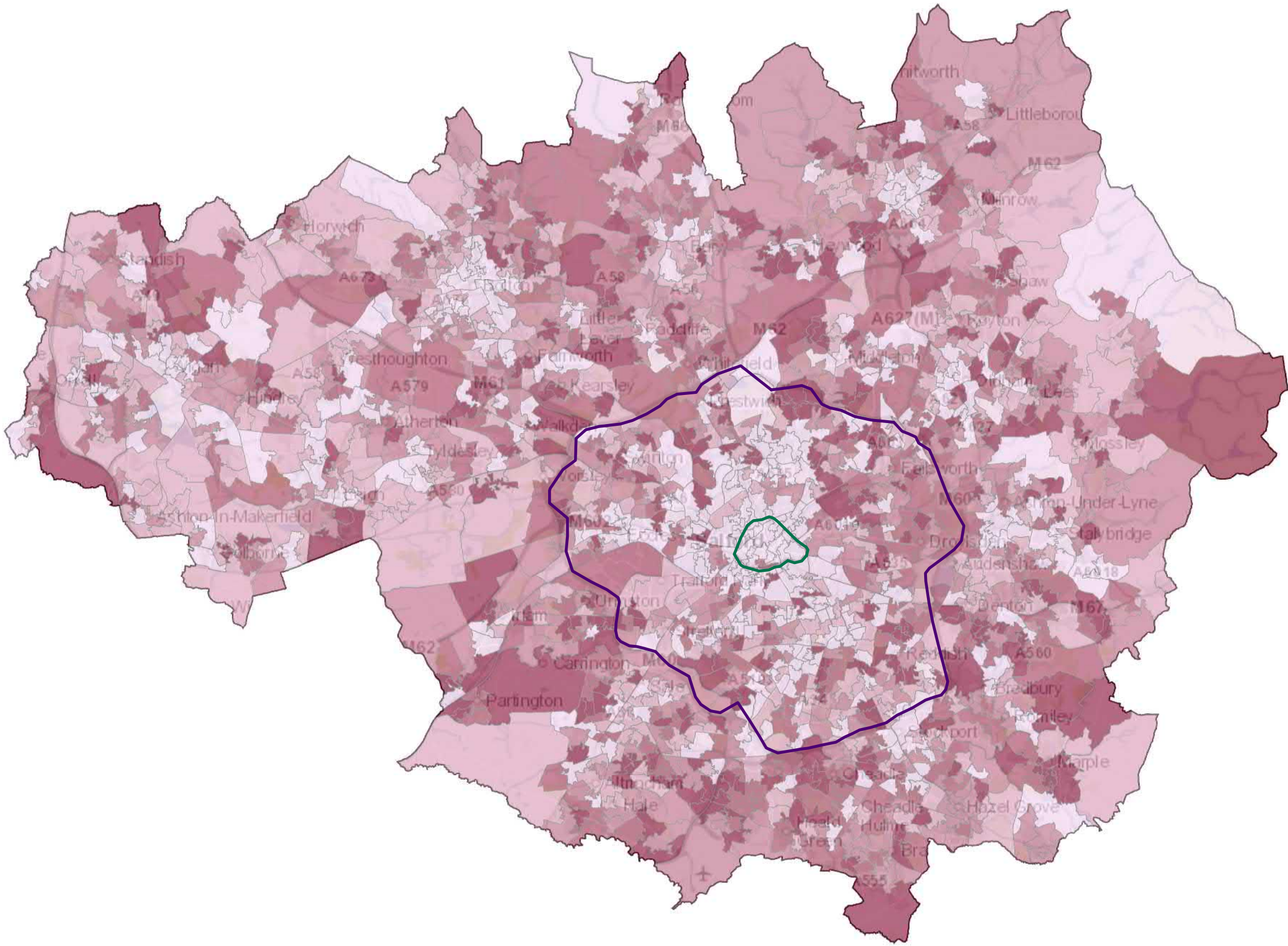
FIGURE 10


Legend

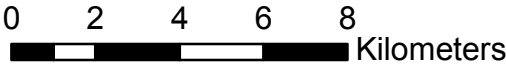
- Greater Manchester Boundary
- Inner Ring Road
- M60

Female Population Quintiles

- 1= 0-20% (most females)
- 2= 20-40%
- 3= 40-60%
- 4= 60-80%
- 5= 80-100% (least females)



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| Proportion of Females by Quintile Based on the distribution across England and Wales | | | | | | |
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FIGURE 11

Legend

Greater Manchester Boundary

Inner Ring Road

M60

BAME Population Quintiles

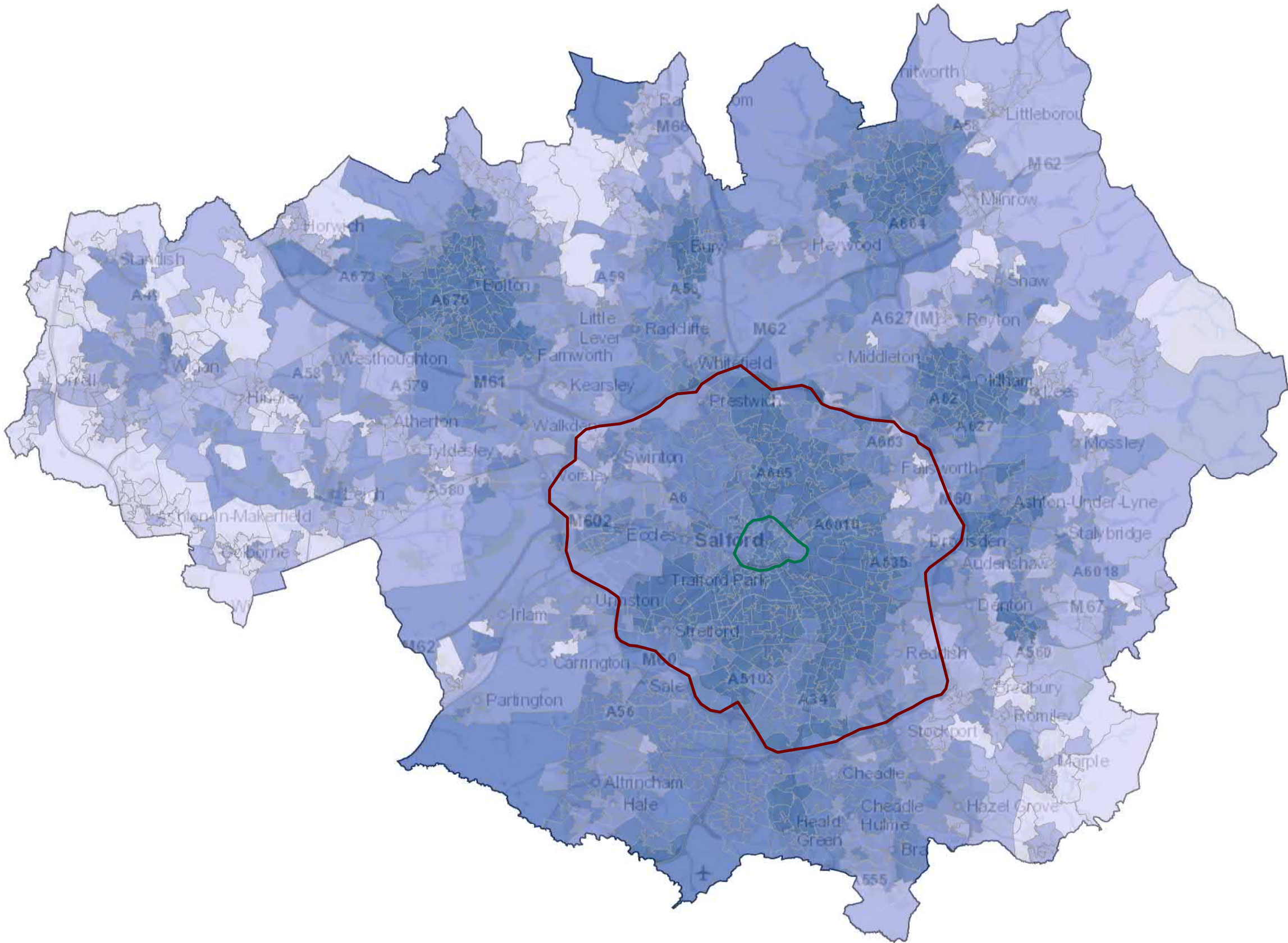
1= 0-20% (most BAME population)

2= 20-40%

3= 40-60%

4= 60-80%

5= 80-100% (least BAME population)



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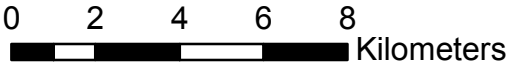
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Drawing Title

Proportion of Black, Asian and Minority Ethnic (BAME) residents by Quintile
Based on the distribution across England and Wales

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FIGURE 12

- Legend
- Greater Manchester Boundary
 - Inner Ring Road
 - M60
 - SME Quintiles**
 - 1= 0-20% (most SMEs)
 - 5= 80-100% (least SMEs)

NOTE: The distribution of SME's has been mapped based on the distribution across England and Wales. Based on this distribution, there are no LSOAs in quintiles 2,3 or 4 and therefore these are not shown on the map.



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Drawing Title
Proportion of Small and Medium-sized Enterprises (SMEs) by Quintile Based on the distribution across England and Wales

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FIGURE 13

- Legend
- Greater Manchester Boundary
 - Inner Ring Road
 - M60
- Non-compliant LGV Quintiles
- 1= 0-20% (most)
 - 5= 80-100% (least)

NOTE: The distribution of non compliant LGV's has been mapped based on the distribution across England and Wales. Based on this distribution, there are no LSOAs in quintiles 2,3 or 4 and therefore these are not shown on the map



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Drawing Title

Non-Compliant LGVs Mapped by Quintile
Based on the Proportion of Non-Compliant LGVs in Greater Manchester

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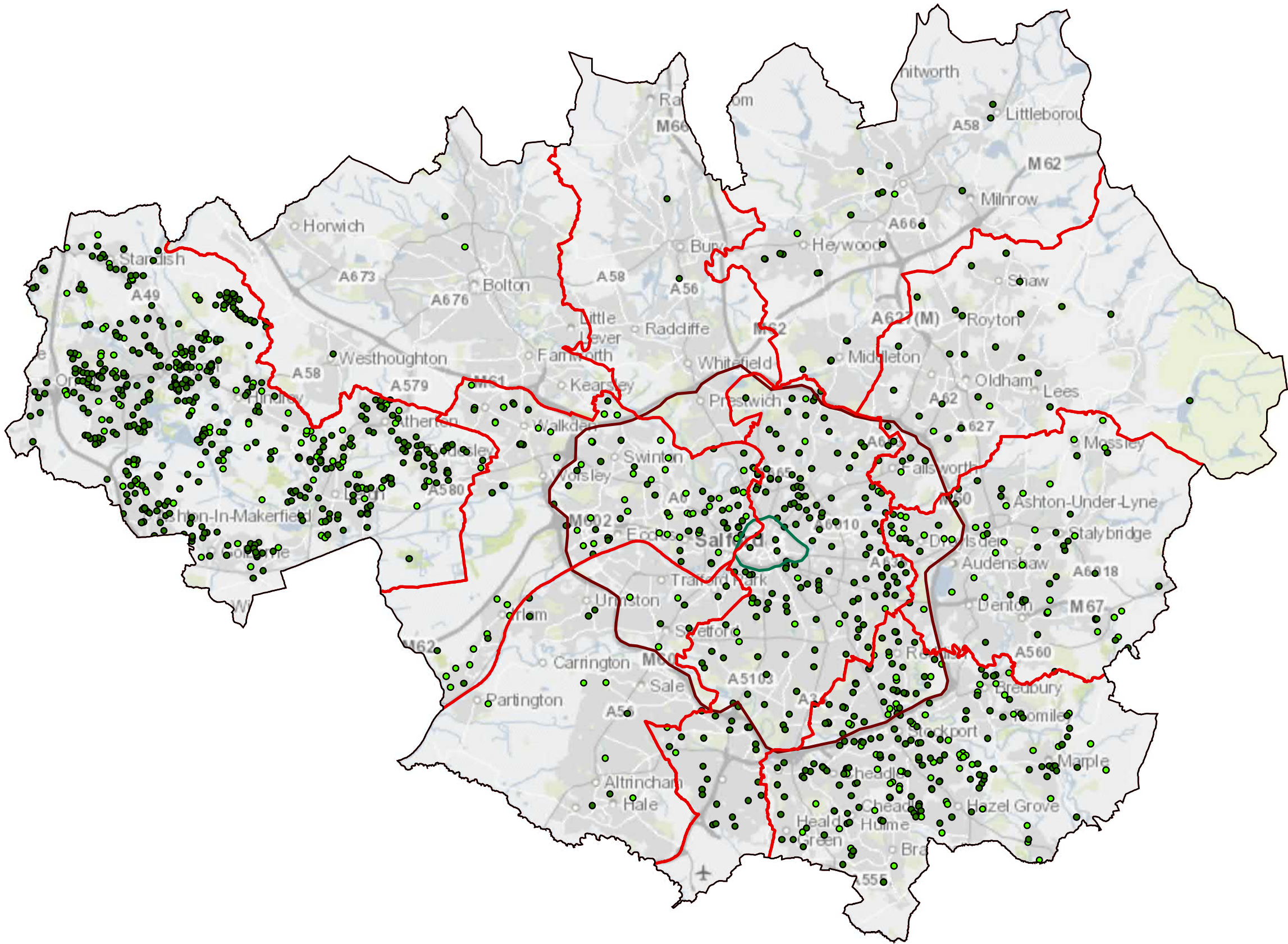
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FIGURE 15

- Legend
- Greater Manchester Boundary
 - Local Authority Boundary
 - Inner Ring Road
 - M60
 - Park/Open Space
 - Playground



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| Drawing Title | Locations of Parks and Playgrounds in Greater Manchester |
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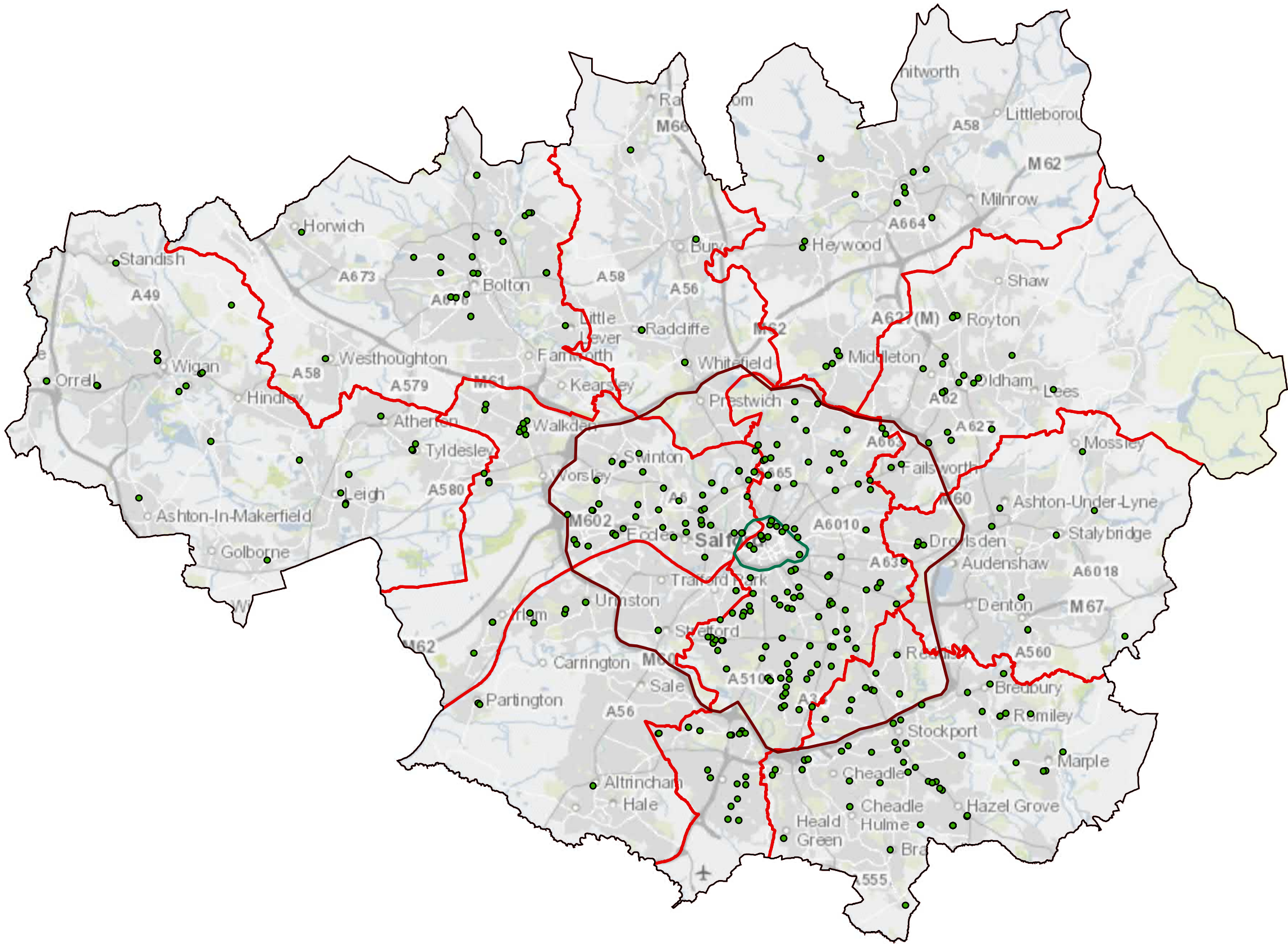
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FIGURE 16

- Legend
- Greater Manchester Boundary
 - Local Authority Boundary
 - Inner Ring Road
 - M60
 - Medical Facility



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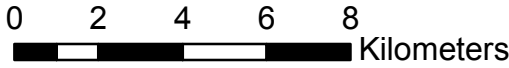
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| Drawing Title | Locations of Medical Facilities (including hospitals and GP clinics) in Greater Manchester |
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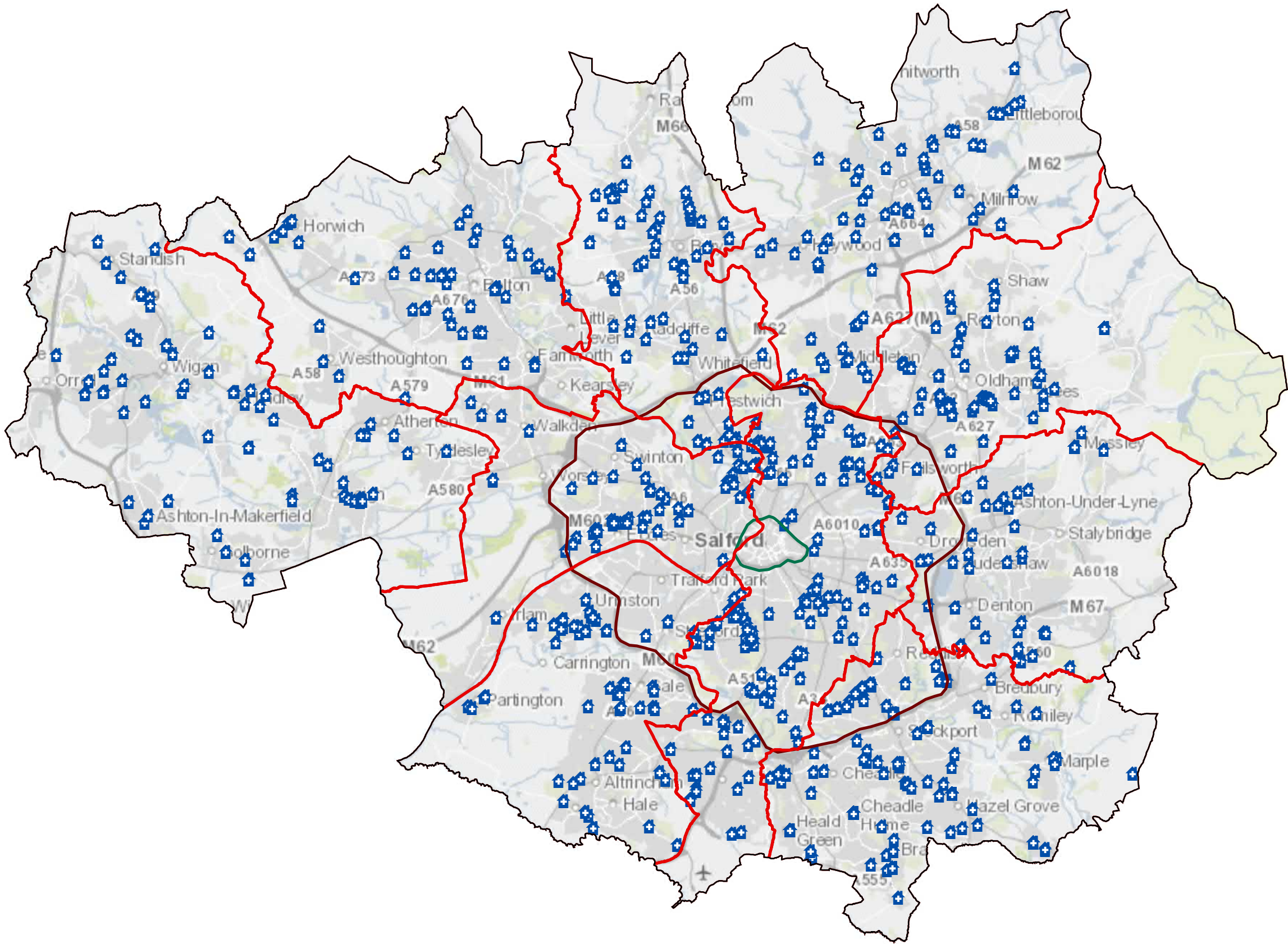


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FIGURE 17

- Legend
- Greater Manchester Boundary
 - Local Authority Boundary
 - Inner Ring Road
 - M60
 - Care/Nursing Home



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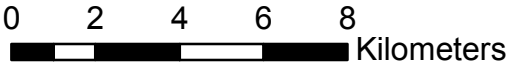
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Drawing Title

Locations of Care/Nursing Homes in Greater Manchester

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FIGURE 18

- Legend
- Greater Manchester Boundary
 - Local Authority Boundary
 - Inner Ring Road
 - M60
 - Religious Sites

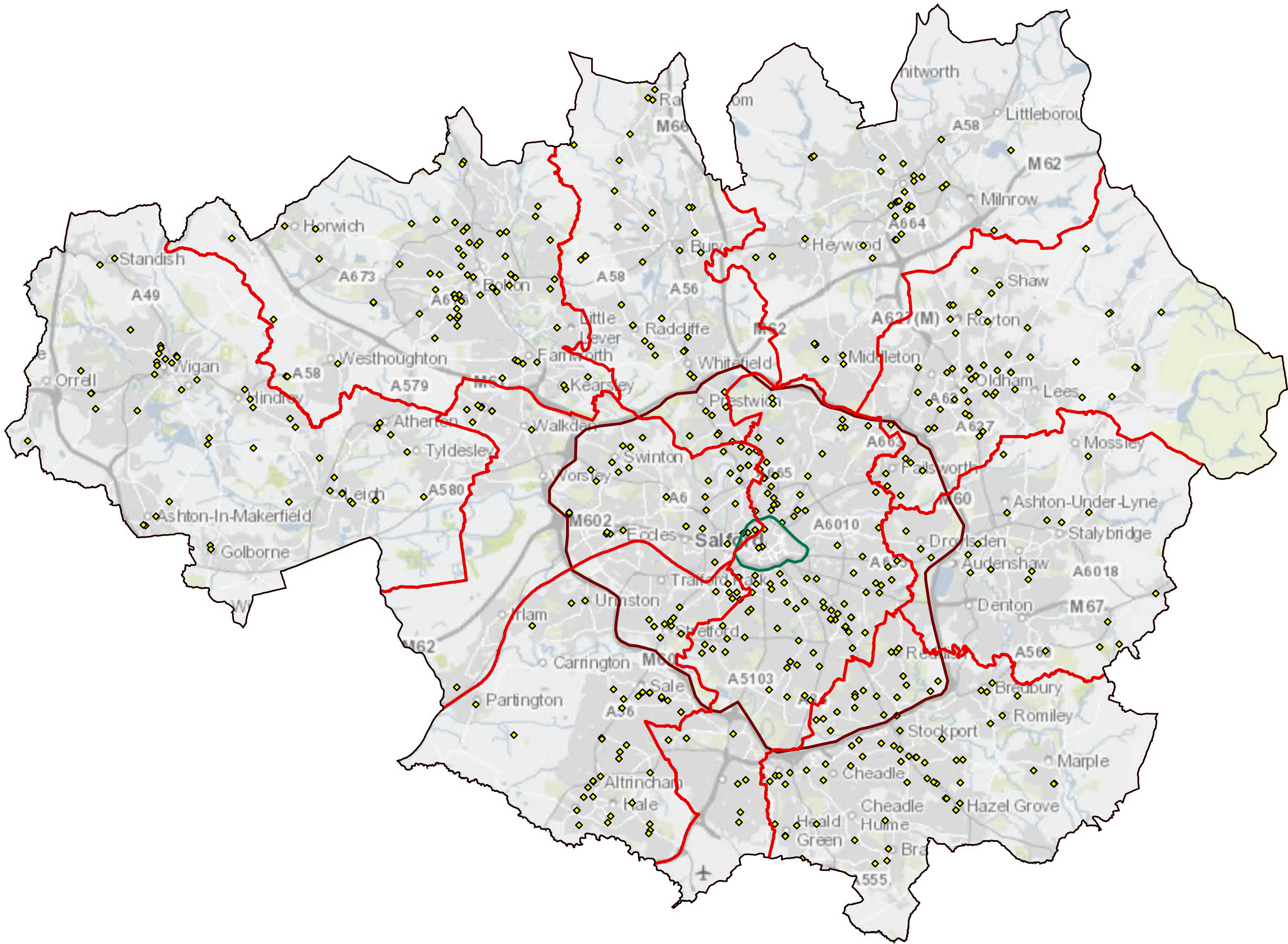
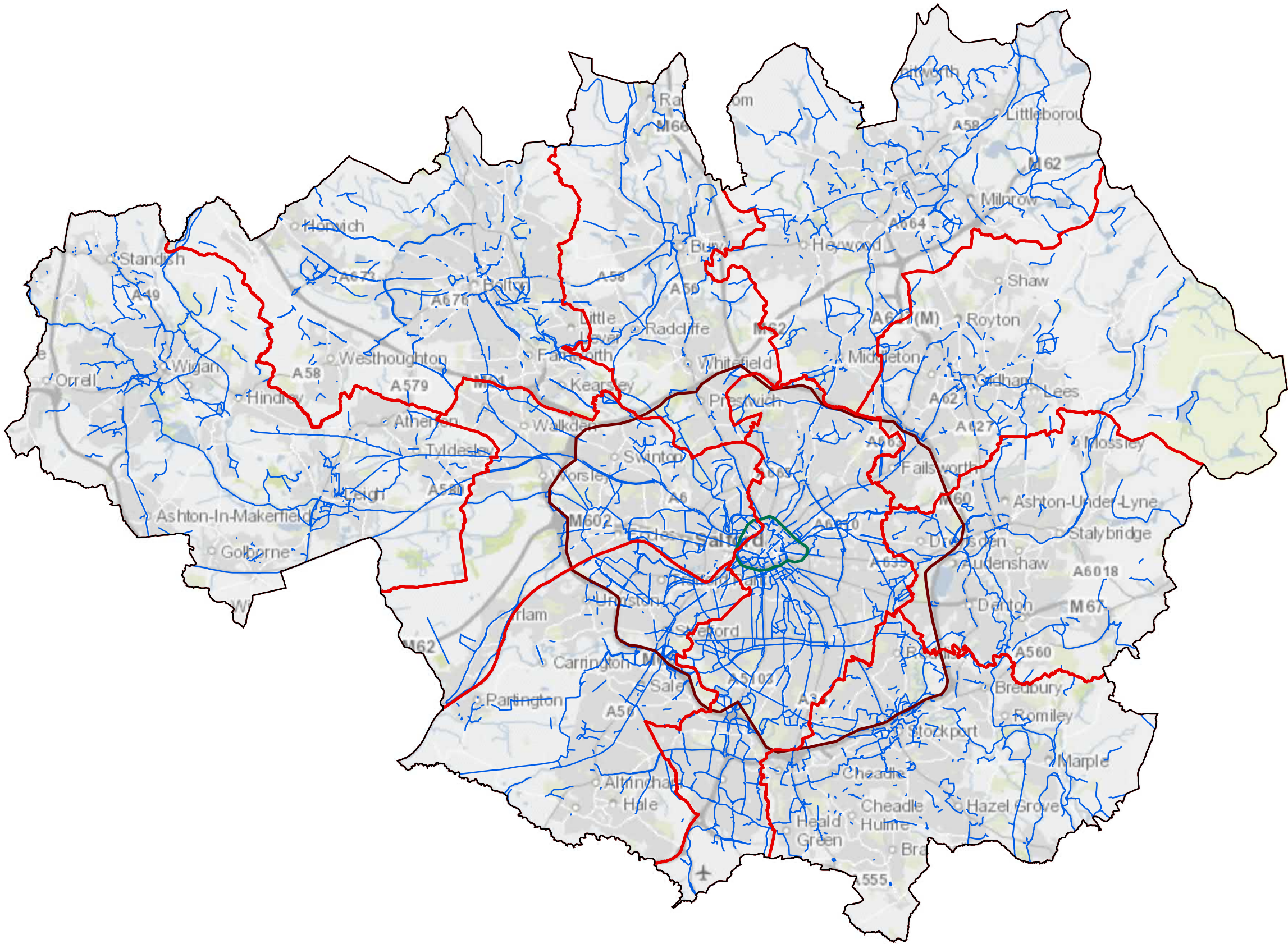




FIGURE 19

- Legend
- Greater Manchester Boundary
 - Local Authority Boundary
 - Inner Ring Road
 - M60
 - Cycle Routes



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| Drawing Title | Locations of Cycle Routes in Greater Manchester |
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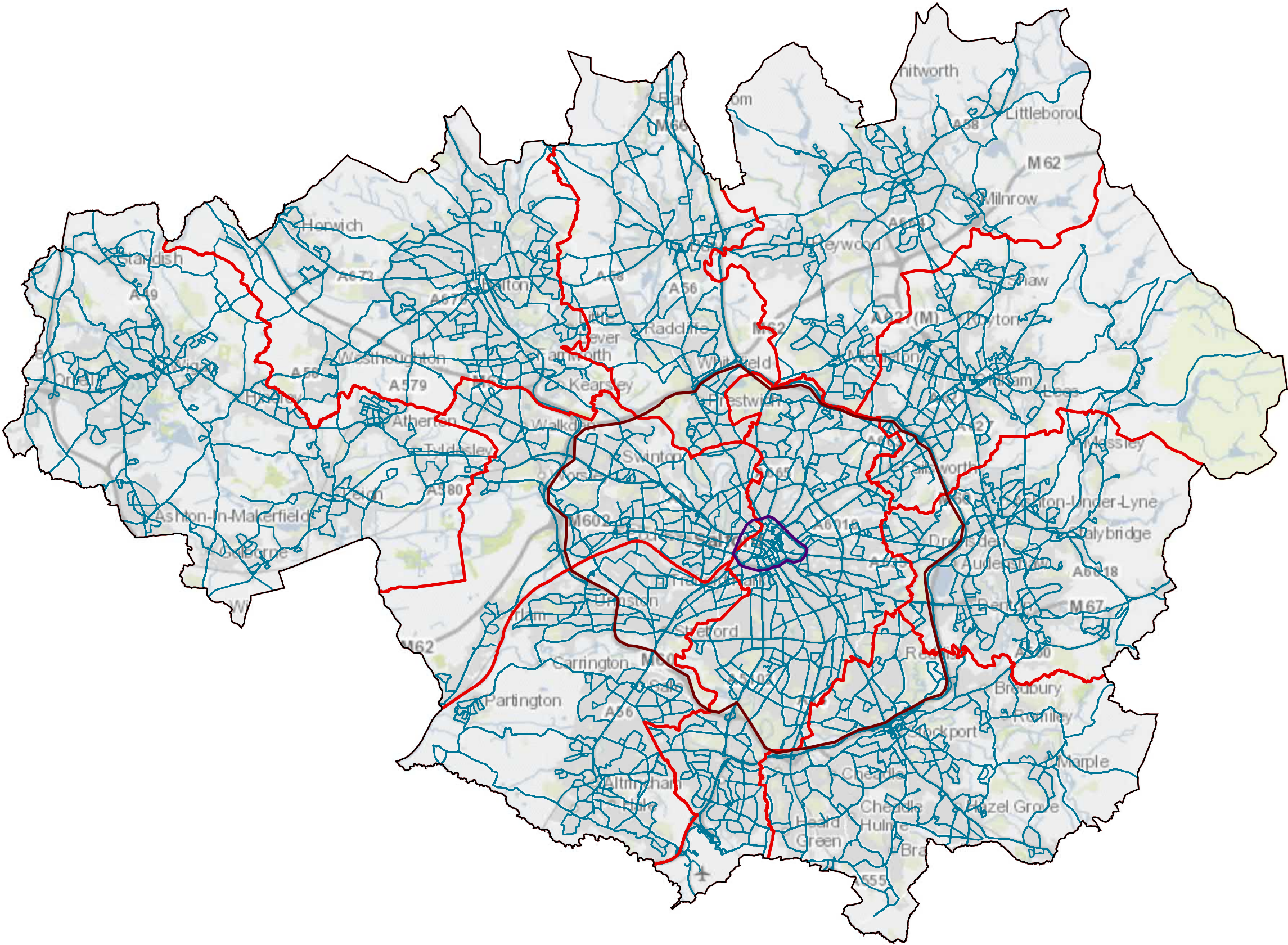
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FIGURE 20

- Legend
- Greater Manchester Boundary
 - Local Authority Boundary
 - Inner Ring Road
 - M60
 - Bus Routes



| | | | | | | |
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Client
 Transport for Greater Manchester

Project
Greater Manchester Clean Air Plan

Drawing Title
Locations of Bus Routes in Greater Manchester

| | | |
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| Scale @ A3 | 1:180,000 | DO NOT SCALE |
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0 2 4 6 8 Kilometers

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FIGURE 21

Legend

Greater Manchester Boundary

Inner Ring Road

M60

Accessibility Level

1 = very low

2

3

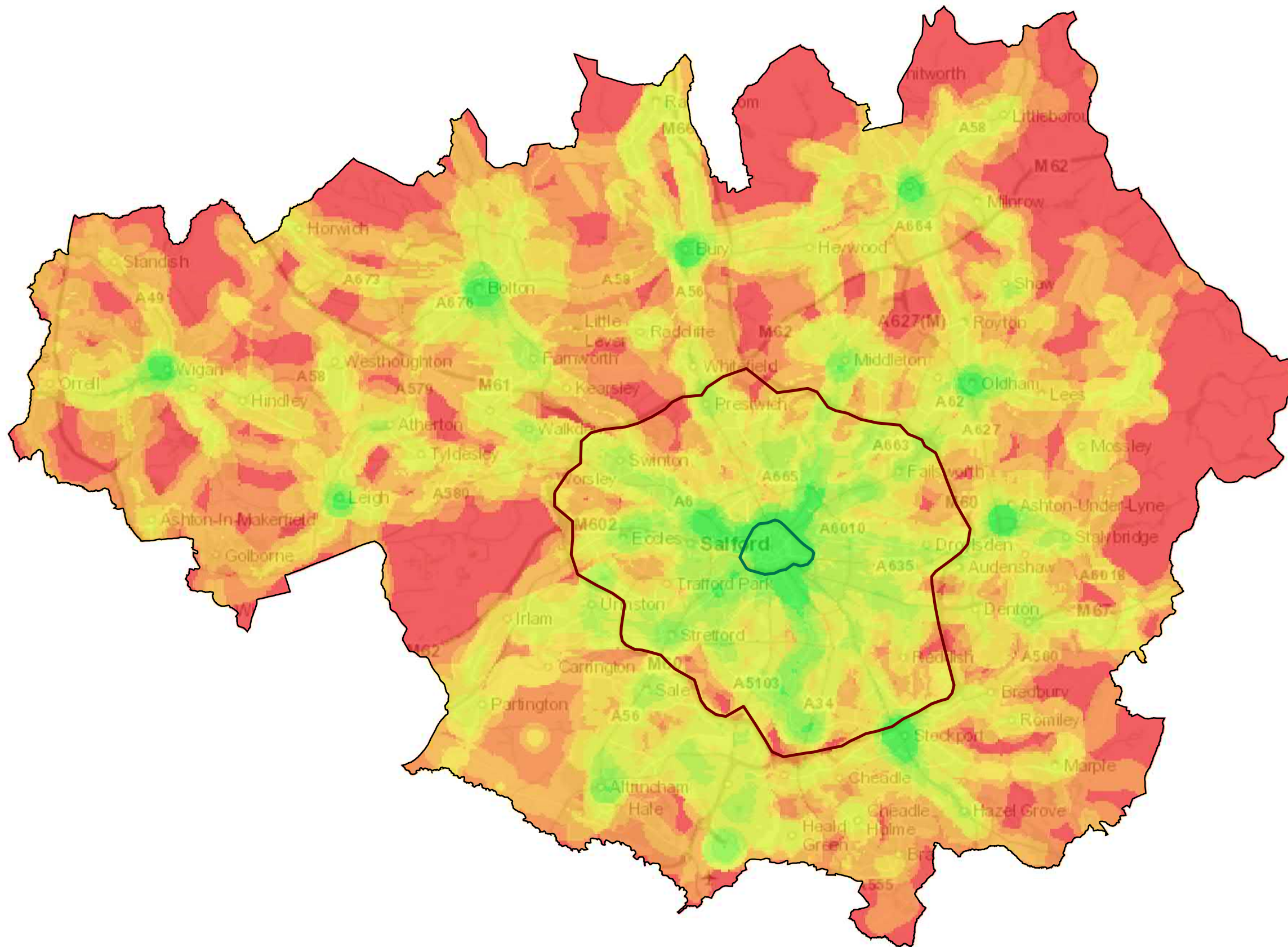
4

5

6

7

8 = very high



| | | | | | | |
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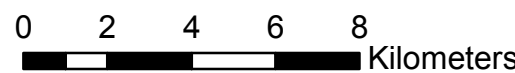
Greater Manchester Clean Air Plan

Drawing Title

Accessibility Levels in Greater Manchester

| | | |
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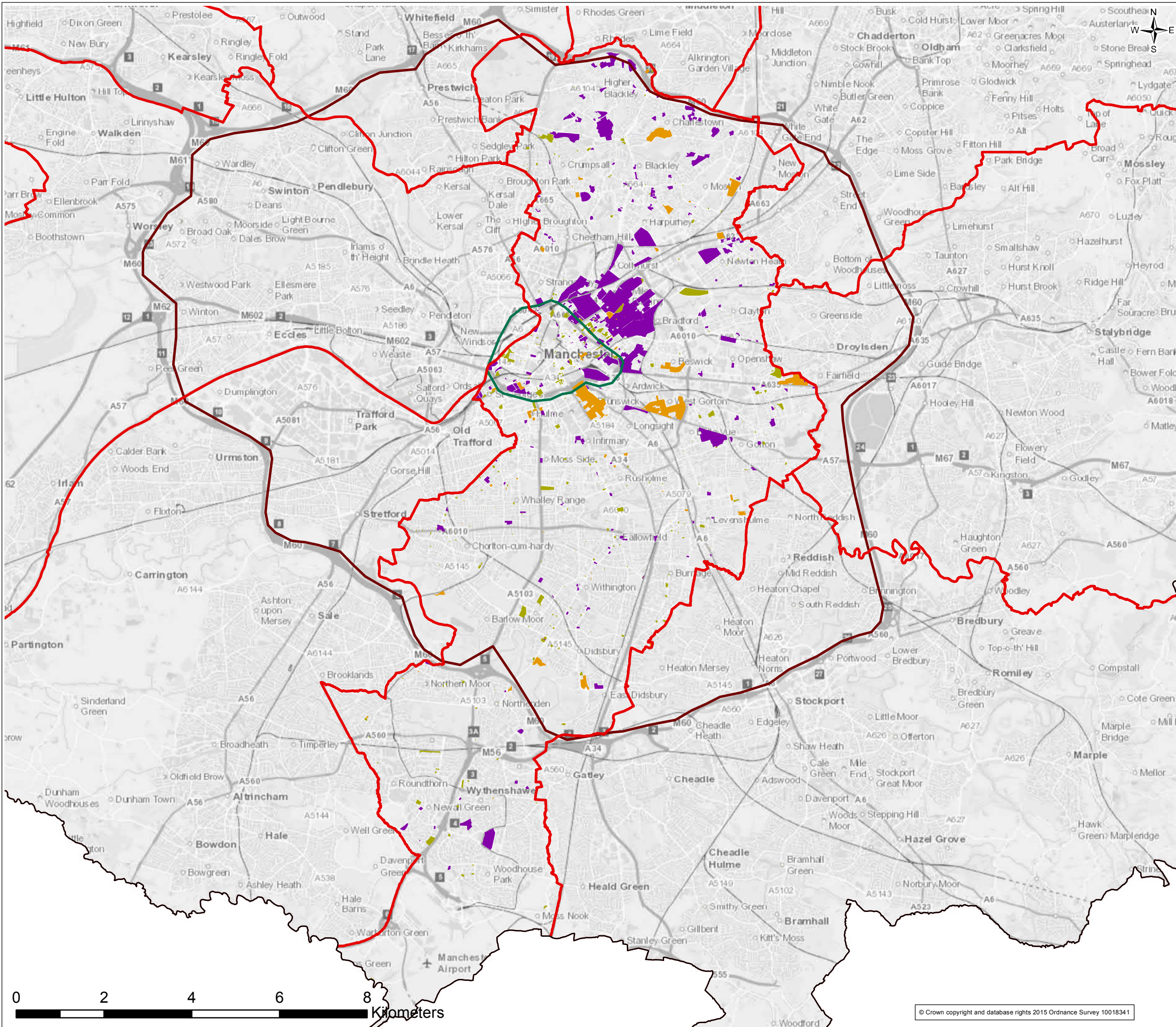


FIGURE 22

- Legend
- Greater Manchester Boundary
 - Local Authority Boundary
 - Inner Ring Road
 - M60
 - Housing Sites Under Construction (2017)
 - Housing Planning Permission Sites (2017)
 - Housing Capacity Sites (2017)



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| Project <div>Greater Manchester Clean Air Plan</div> | | | | | | |
| Drawing Title <div>Areas identified for housing in the Manchester Local Authority</div> | | | | | | |
| Scale @ A3 <div>1:83,637</div> <div>DO NOT SCALE</div> | | | | | | |
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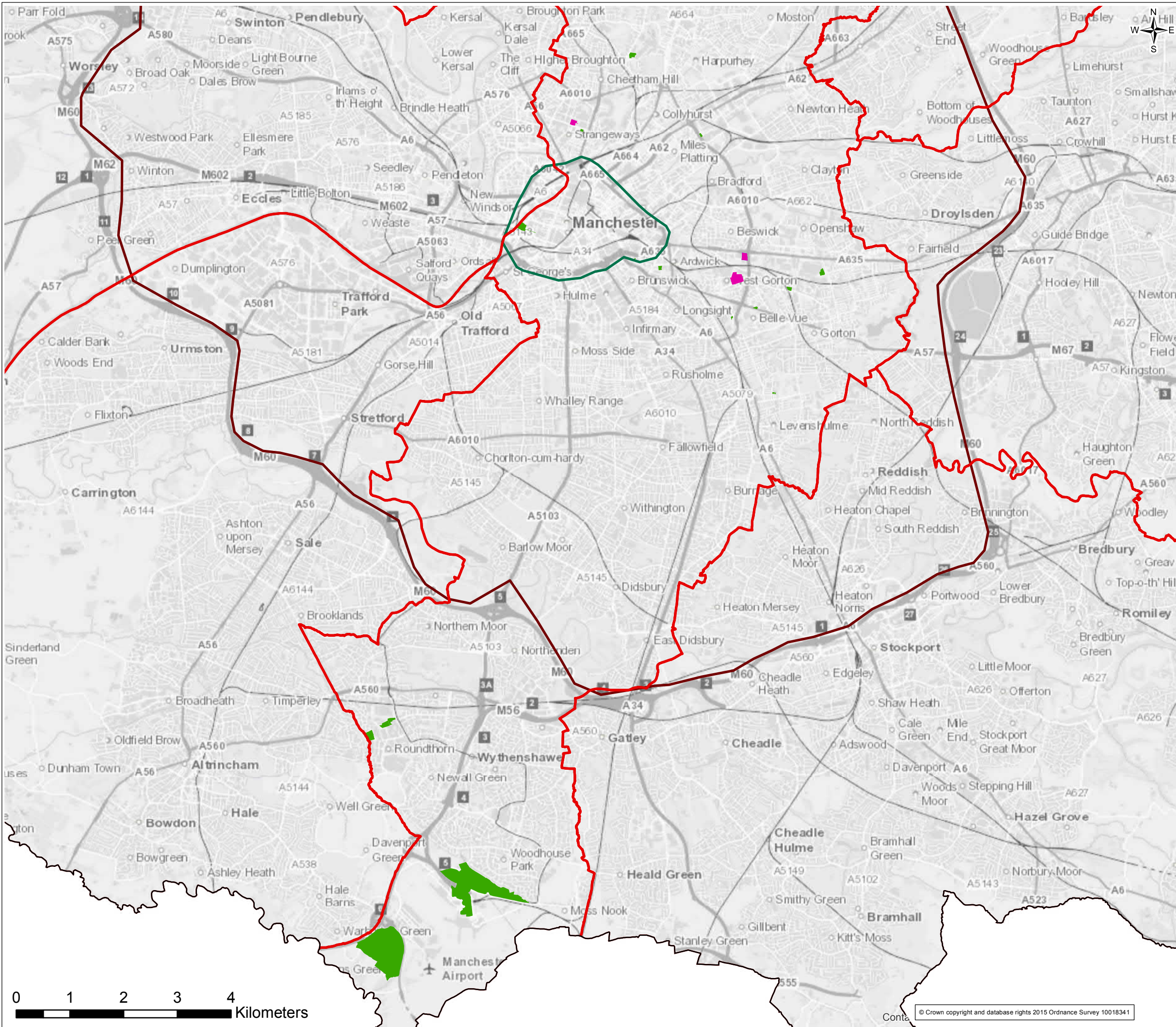


FIGURE 23

- Legend
- Greater Manchester Boundary
 - Local Authority Boundary
 - Inner Ring Road
 - M60
 - Future Employment Areas B2 & B8 (2016-2017)
 - Future Employment Areas under Construction B8 only (2016-2017)
 - Future Employment Areas under Construction B2 only (2016-2017)



| | | | | | | |
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| Drawing Title Areas Identified as Future Employment Areas in the Manchester Local Authority | | | | | | |
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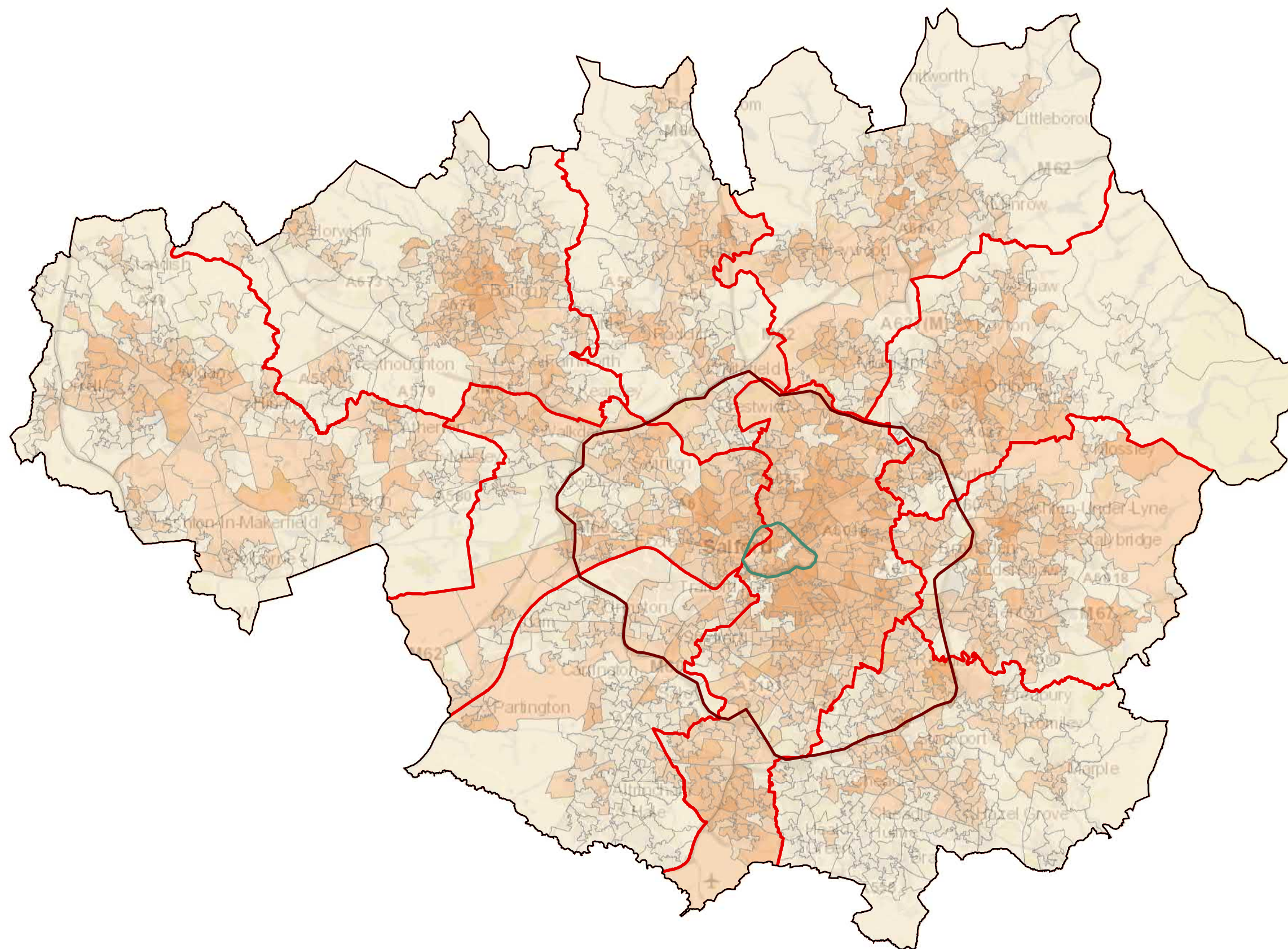
FIGURE 24

Legend

- Greater Manchester Boundary
- Local Authority Boundary
- M60
- Inner Ring Road

Car/Van Availability (% of households with no access)

- 0% - 20%
- 21% - 40%
- 41% - 60%
- 61% - 80%
- 81% - 100%



| | | | | | | |
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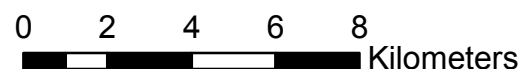
| | |
|---------|-----------------------------------|
| Project | Greater Manchester Clean Air Plan |
|---------|-----------------------------------|

| | |
|---------------|---|
| Drawing Title | Percentage of Households with No Access to a Car or Van in Greater Manchester |
|---------------|---|

| | | |
|------------|-----------|--------------|
| Scale @ A3 | 1:180,000 | DO NOT SCALE |
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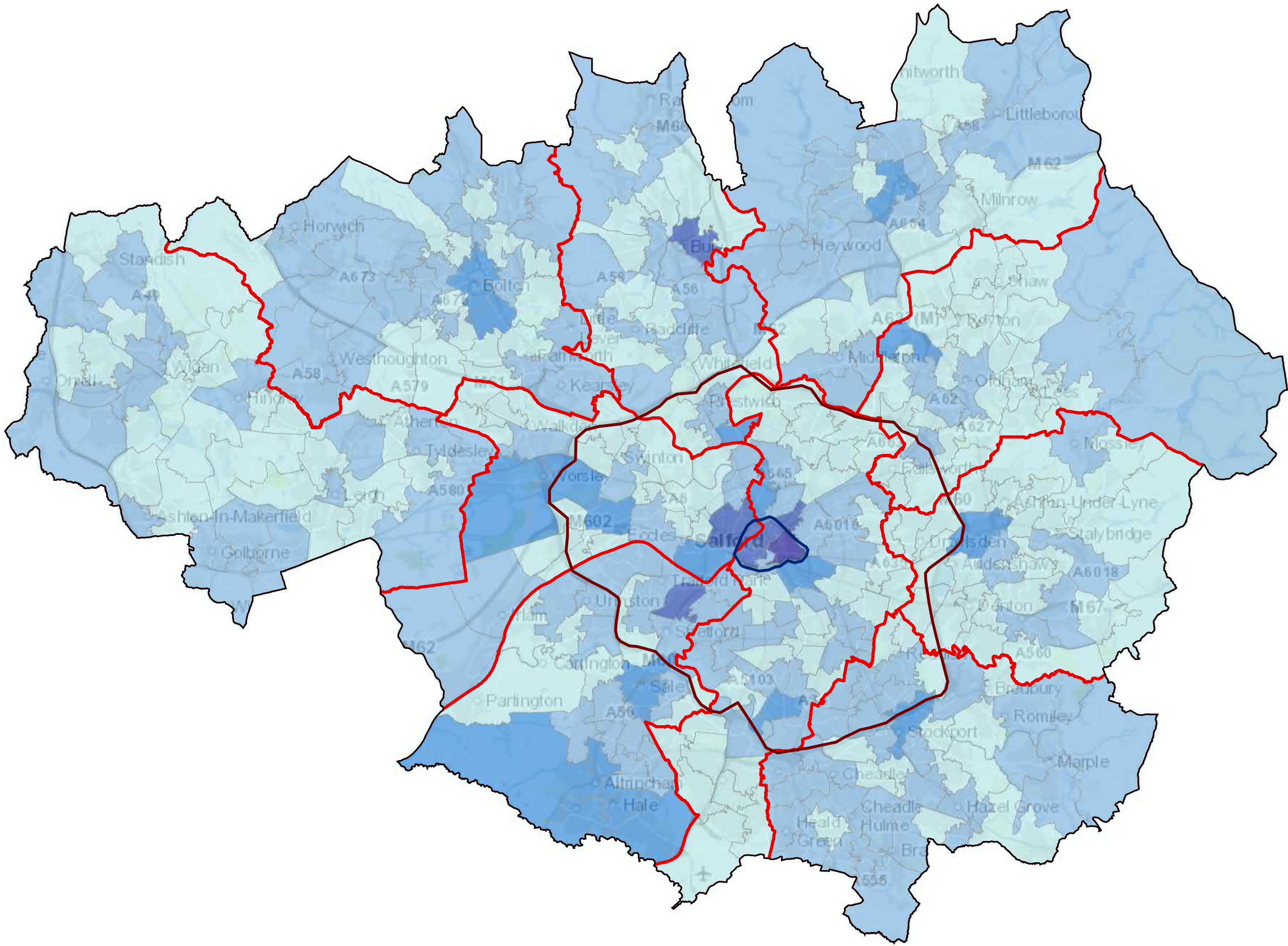
FIGURE 25

Legend

- Greater Manchester Boundary
- Local Authority Boundary
- M60
- Inner Ring Road

SMEs with a turnover of less than £200,000 per annum

- 30 - 170
- 171 - 325
- 326 - 710
- 711 - 1500
- 1501 - 3765



| | | | | | | |
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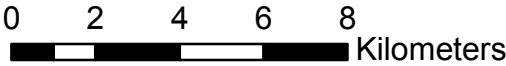
Greater Manchester Clean Air Plan

Drawing Title

Number of Small and Medium-sized Enterprises (SMEs) with an Annual Turnover of Less Than £200,000, in each MSOA

| | | |
|------------|-----------|--------------|
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FIGURE 26


Legend

- Greater Manchester Boundary
- Local Authority Boundary
- M60
- Inner Ring Road

SMEs with a turnover of more than £1 million per annum

- 0 - 20
- 21 - 45
- 46 - 95
- 96 - 205
- 206 - 440



| | | | | | | |
|---|------------|---------------------|-------|---------|--------------|-------|
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| Project | | | | | | |
| Greater Manchester Clean Air Plan | | | | | | |
| Drawing Title | | | | | | |
| Number of Small and Medium-sized Enterprises (SMEs) with an annual turnover of more than £1million, in each MSOA | | | | | | |
| DO NOT SCALE | | | | | | |
| Scale @ A3 | | 1:180,000 | | | DO NOT SCALE | |
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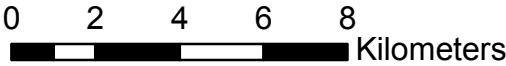




FIGURE 28

Legend

Greater Manchester Boundary

Local Authority Boundary

M60

Inner Ring Road

Percentage Non-Compliance (Cars)

< 40%

40% - 50%

50% - 60%

60% - 70%

> 70%

Note: Non-compliant here means at or below Euro 4 (petrol) and Euro 6 (diesel) standard.



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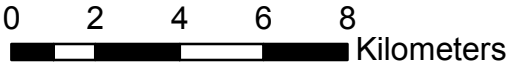
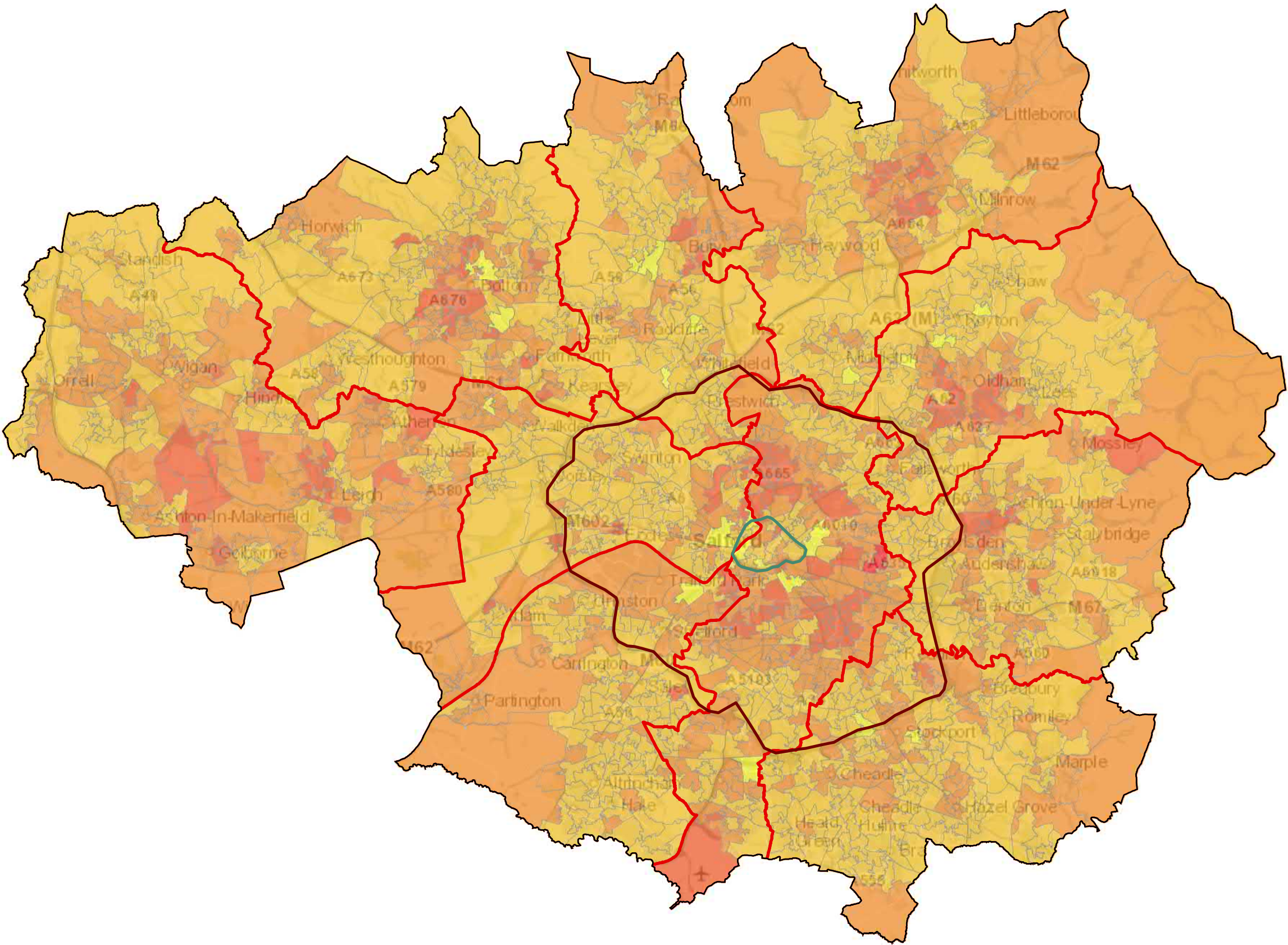
Greater Manchester Clean Air Plan

Drawing Title

Percentage of Non-Compliant Cars Within Each LSOA in Greater Manchester

| | | |
|------------|-----------|--------------|
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FIGURE 29

Legend

Greater Manchester Boundary

Local Authority Boundary

M60

Inner Ring Road

Percentage Non-Compliance (LGVs)

<50%

50% - 90%

> 90 %

Note: Non-compliant here means at or below Euro 4 (petrol) or Euro 6 (diesel) standard



| | | | | | | |
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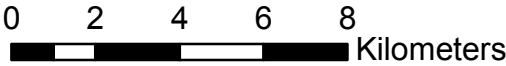
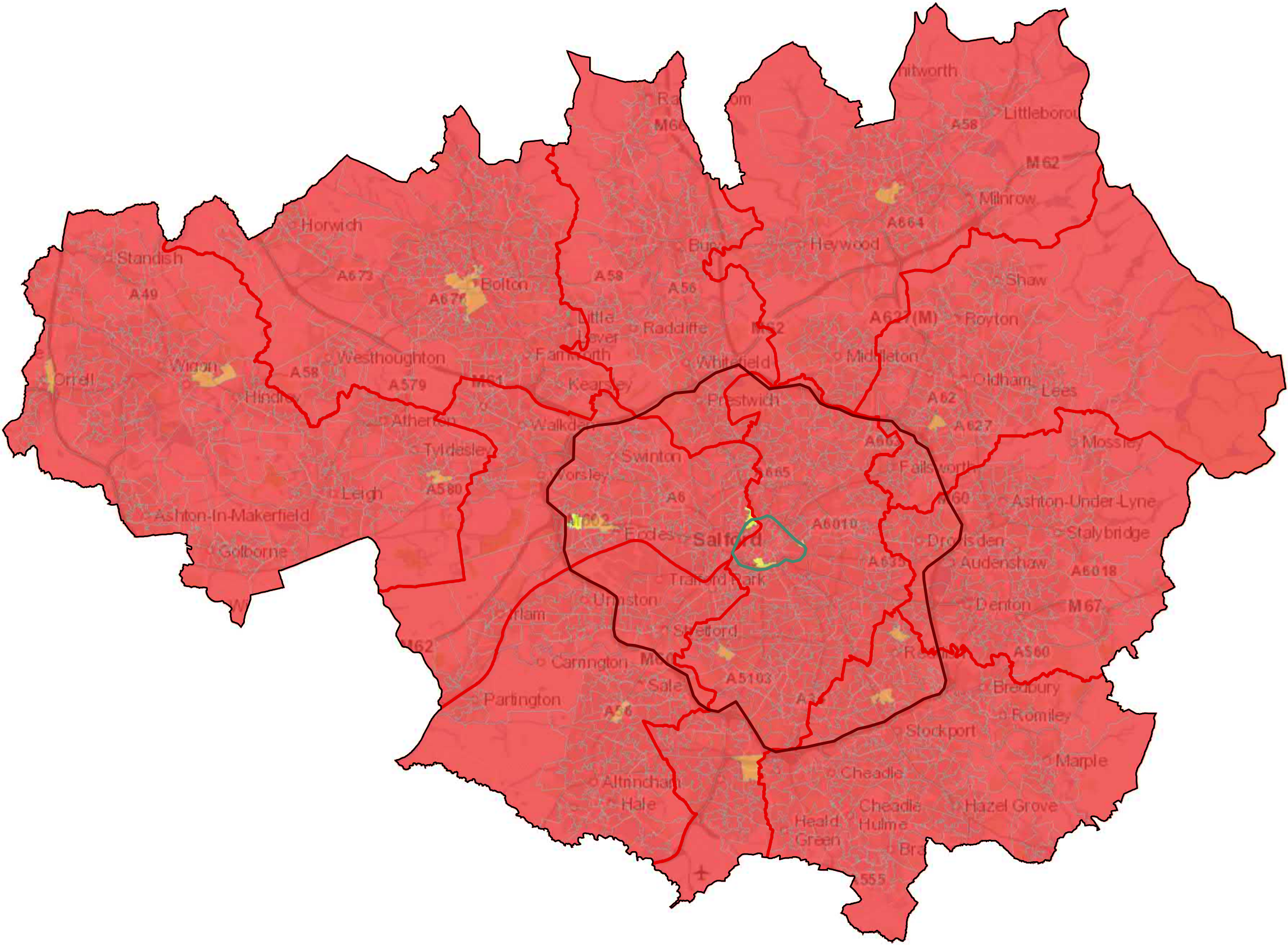
Greater Manchester Clean Air Plan

Drawing Title

Percentage of Non-Compliant LGVs Within Each LSOA in Greater Manchester

| | | |
|------------|-----------|--------------|
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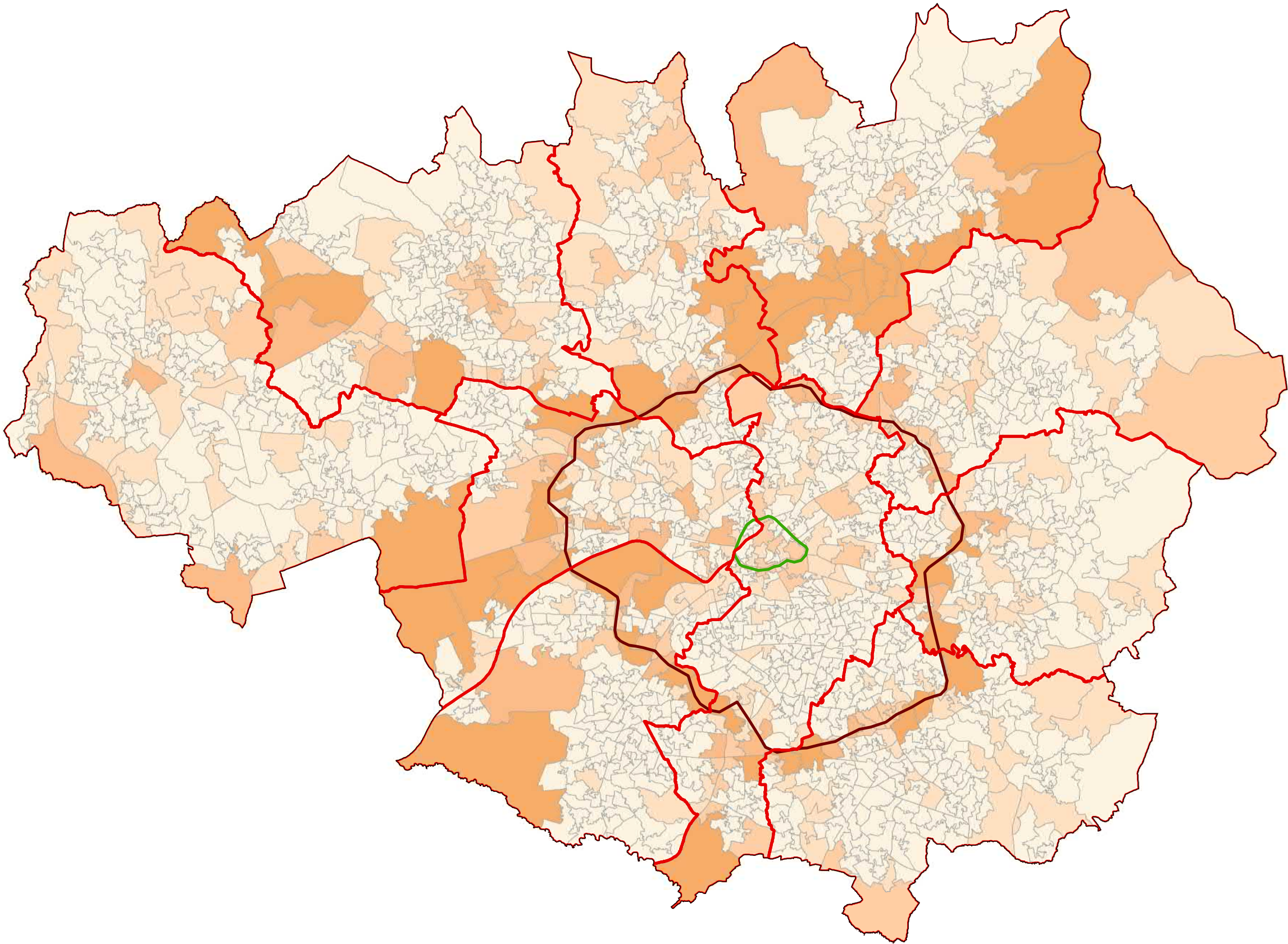
FIGURE 30


Legend

- Greater Manchester Boundary
- Local Authority Boundary
- Inner Ring Road
- M60

Reduction in PM₁₀ Emissions (tonnes) - Option 5(i)

- 0.00 - 0.05
- 0.06 - 0.10
- 0.11 - 0.15
- 0.16 - 0.20
- >0.20



| | | | | | | |
|---|------------|---------------------|-------|---------|--------------|--------|
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| Project | | | | | | |
| Greater Manchester Clean Air Plan | | | | | | |
| Drawing Title | | | | | | |
| Modelled Reduction in PM ₁₀ Emissions - Option 5(i) | | | | | | |
| | | | | | | |
| Scale @ A3 | | 1:180,000 | | | DO NOT SCALE | |
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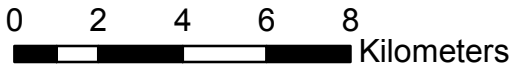




FIGURE 31

Legend

Greater Manchester Boundary

Local Authority Boundary

Inner Ring Road

M60

Reduction in NOx Emissions (tonnes)
- Option 5(i)

0.00 - 1.00

1.01 - 2.00

2.01 - 4.00

4.01 - 8.00

8.01 - 20.00



| | | | | | | |
|------|------------|---------------------|-------|---------|-------|-------|
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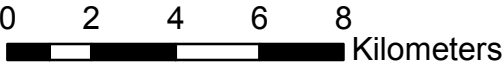
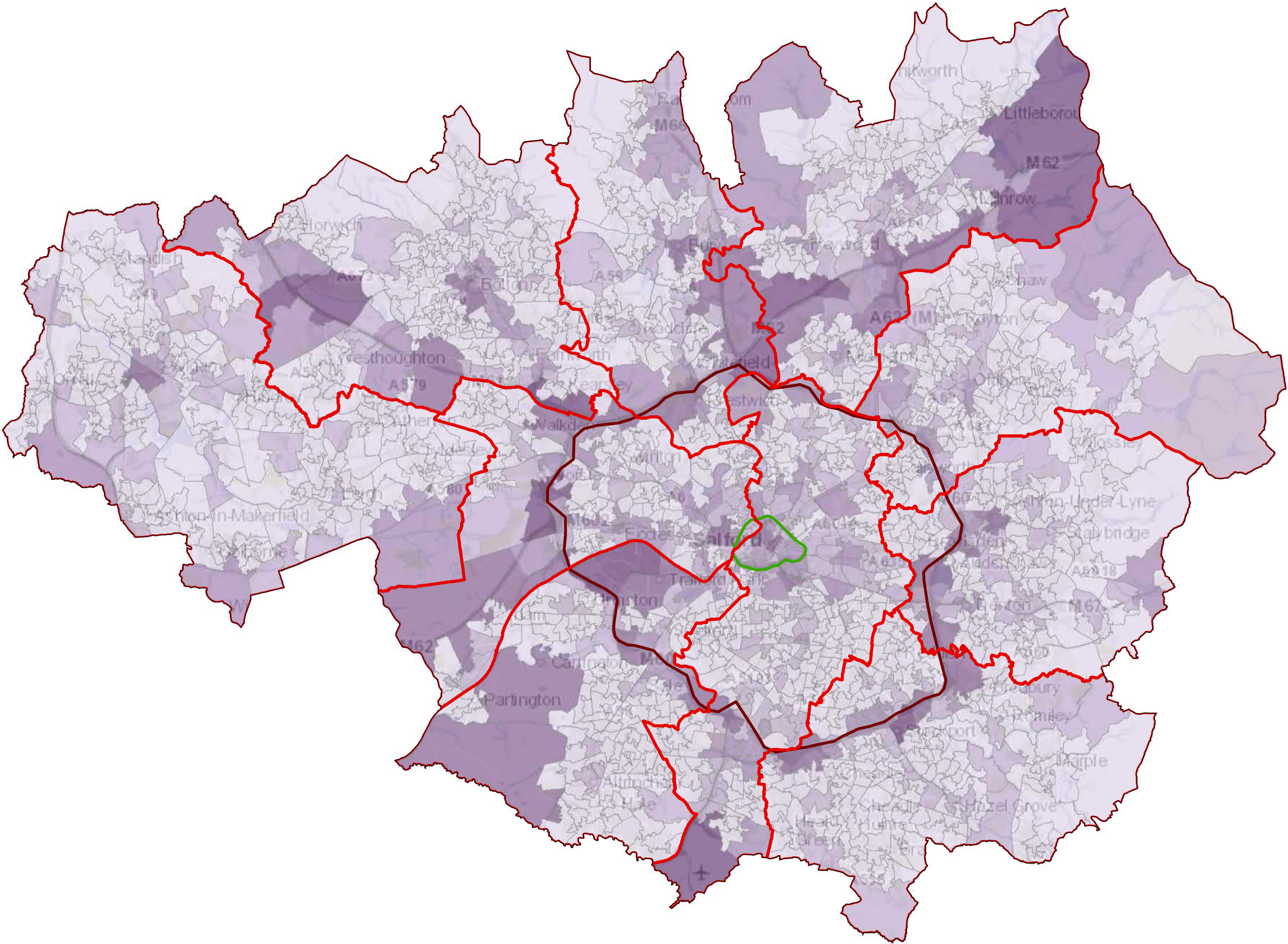
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Drawing Title

Modelled Reduction in NOx Emissions - Option 5(i)

| | | |
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FIGURE 32

Legend

Greater Manchester Boundary

Local Authority Boundary

Inner Ring Road

M60

Reduction in PM₁₀ Emissions (tonnes)
- Option 5(ii)

0.00 - 0.05

0.06 - 0.10

0.11 - 0.15

0.16 - 0.20

>0.20



| | | | | | | |
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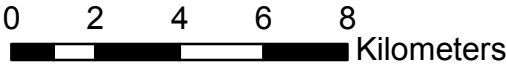
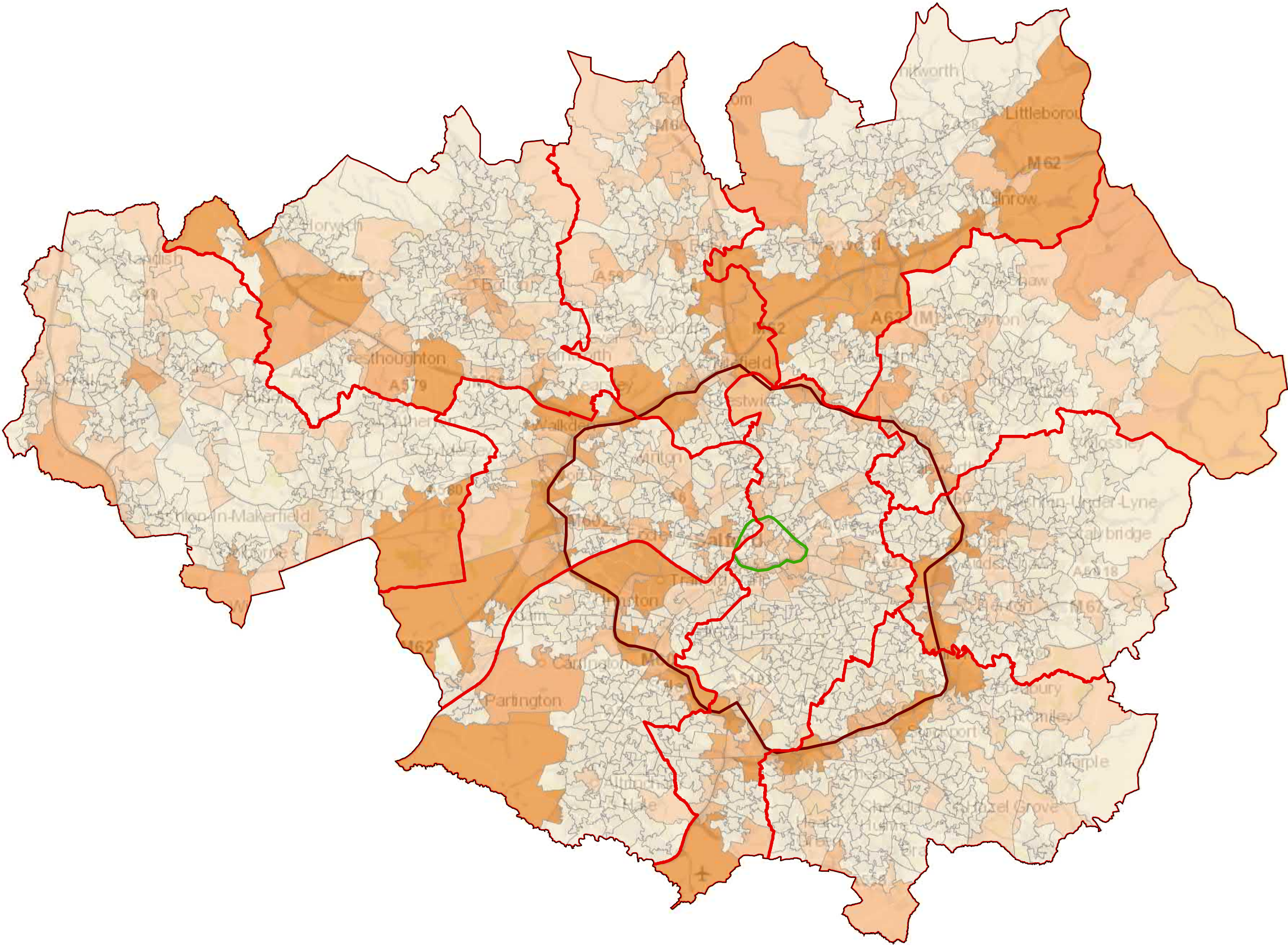
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Drawing Title

Modelled Reduction in PM₁₀ Emissions - Option 5(ii)

| | | |
|------------|-----------|--------------|
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FIGURE 33

Legend

Greater Manchester Boundary

Local Authority Boundary

Inner Ring Road

M60

Reduction in NOx Emissions (tonnes)
- Option 5(ii)

0.00 - 1.00

1.01 - 2.00

2.01 - 4.00

4.01 - 8.00

8.01 - 20.00



| | | | | | | |
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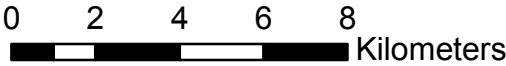
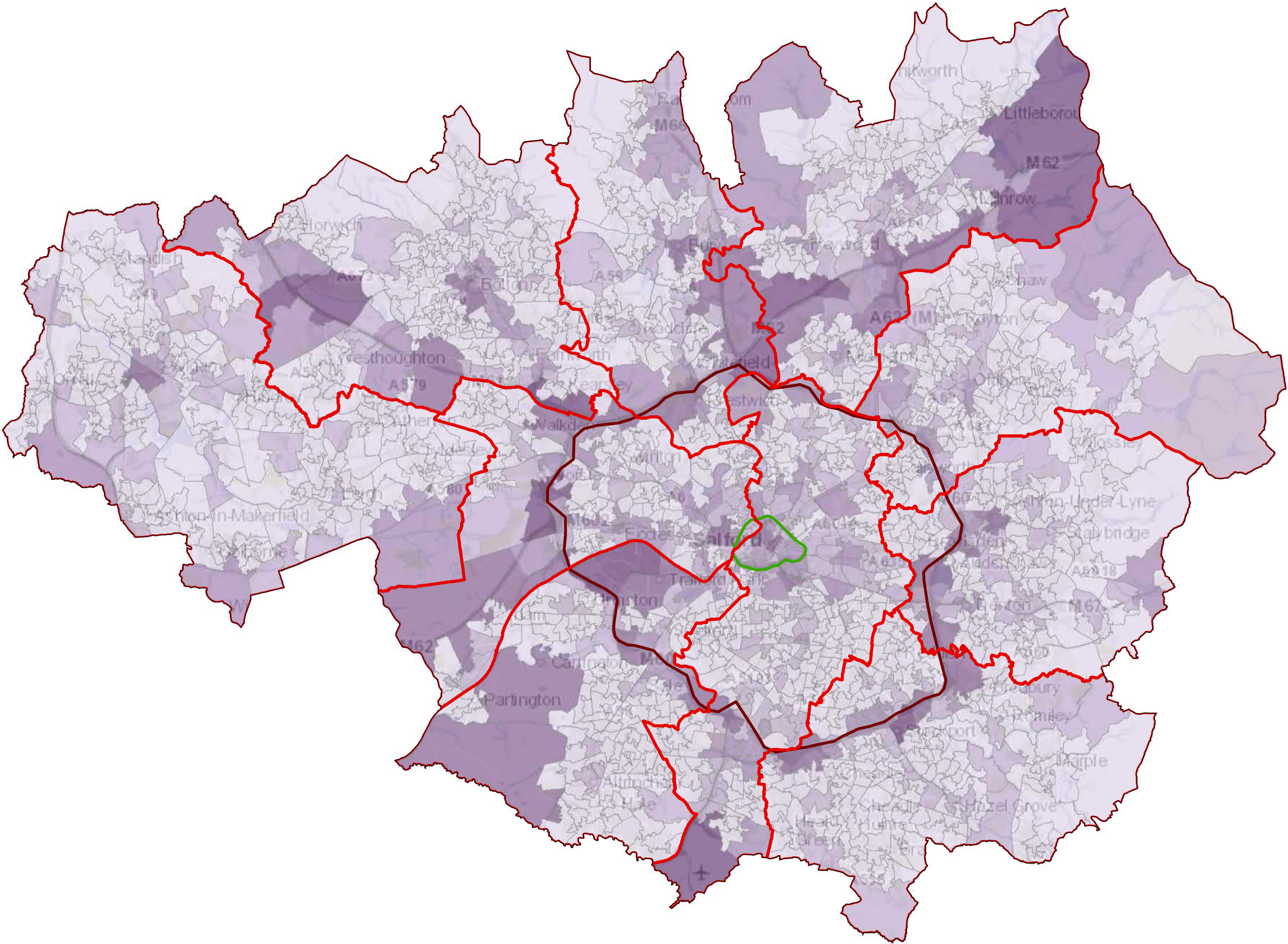
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Drawing Title

Modelled Reduction in NOx Emissions - Option 5(ii)

| | | |
|------------|-----------|--------------|
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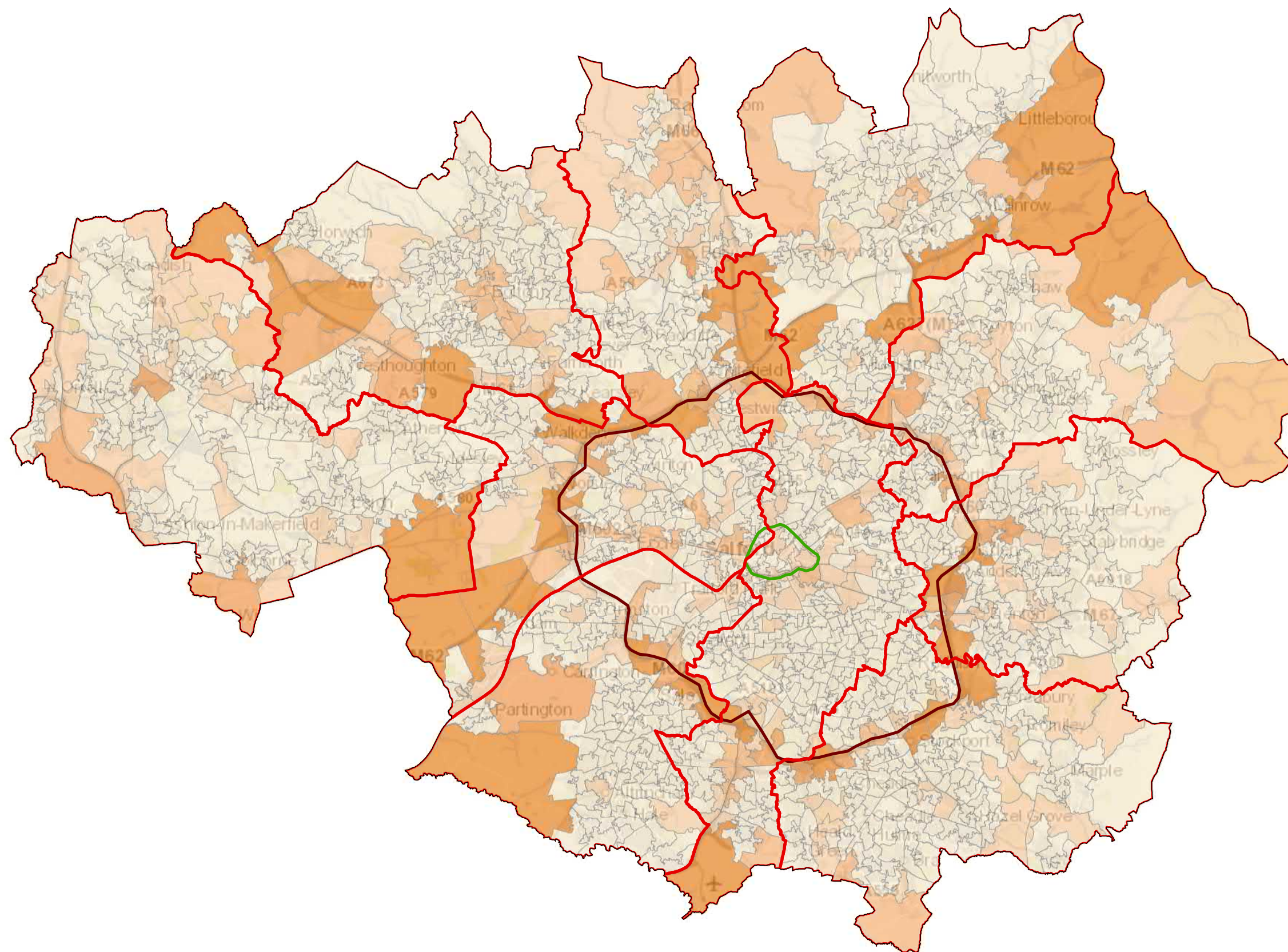
FIGURE 34

Legend

- Greater Manchester Boundary
- Local Authority Boundary
- Inner Ring Road
- M60

Reduction in PM₁₀ Emissions (tonnes) - Option 8

- < 0 - 0.05
- 0.06 - 0.10
- 0.11 - 0.15
- 0.16 - 0.20
- > 0.20



| | | | | | | |
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| Project | Greater Manchester Clean Air Plan |
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| | |
|---------------|---|
| Drawing Title | Modelled Reduction in PM ₁₀ Emissions - Option 8 |
|---------------|---|

| | | |
|------------|-----------|--------------|
| Scale @ A3 | 1:182,000 | DO NOT SCALE |
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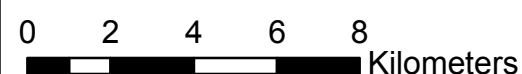


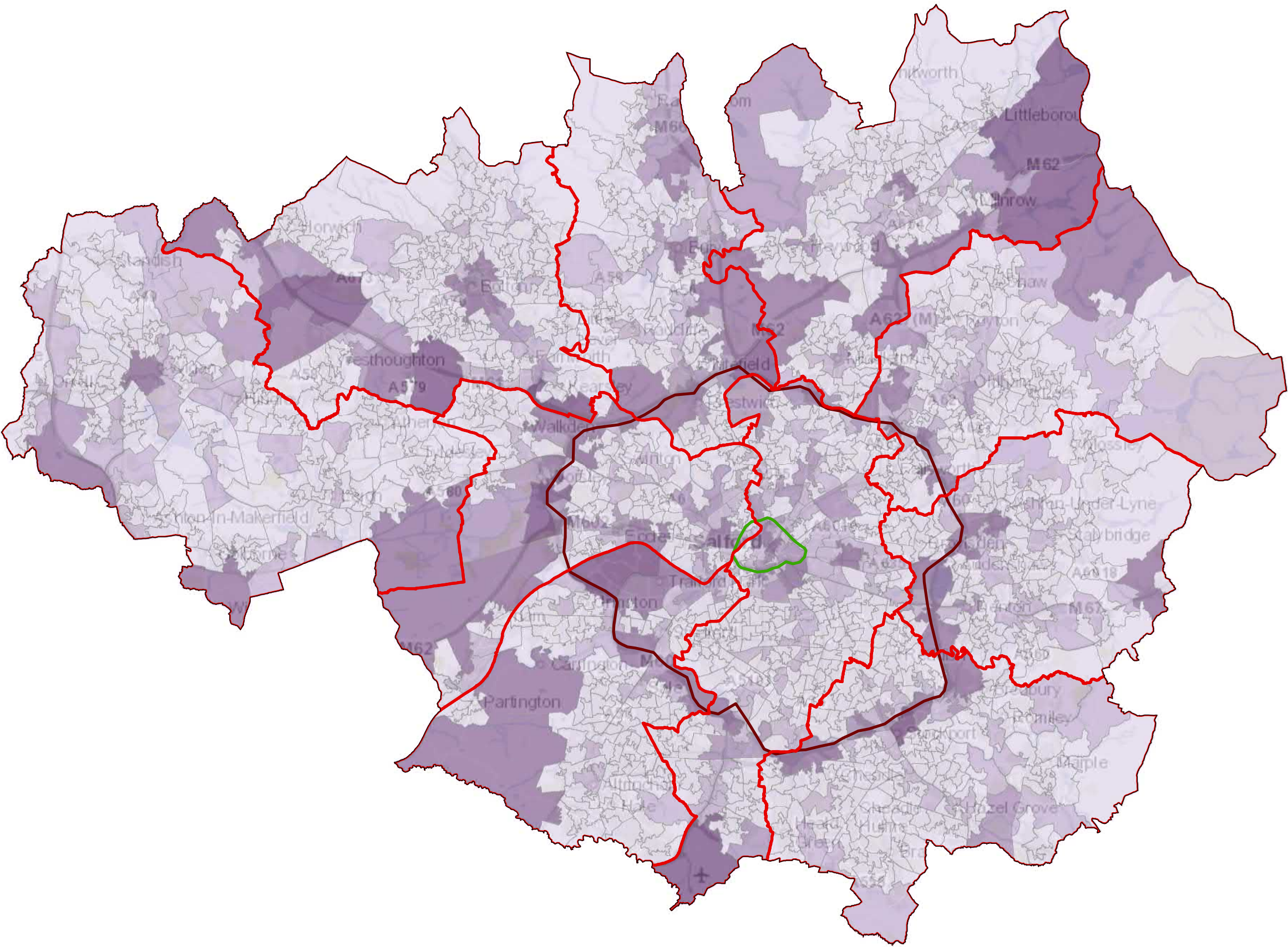


FIGURE 35

- Legend
- Greater Manchester Boundary
 - Local Authority Boundary
 - Inner Ring Road
 - M60

Reduction in NOx Emissions (tonnes) - Option 8

- <0.00 - 1.00
- 1.01 - 2.00
- 2.01 - 3.00
- 3.01 - 8.00
- 8.01 - 20.00



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Drawing Title
Modelled Reduction in NOx Emissions - Option 8

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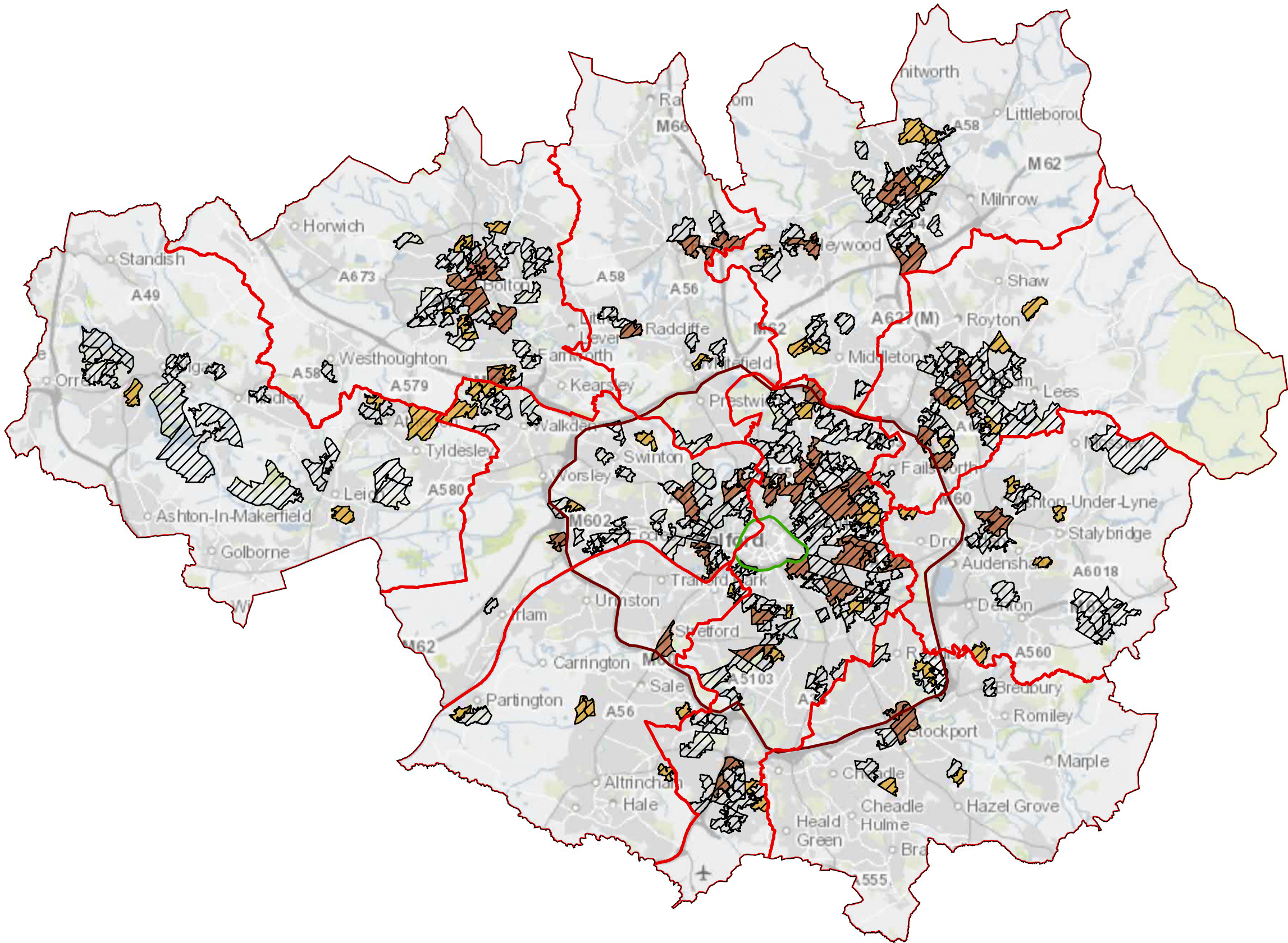
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0 2 4 6 8 Kilometers

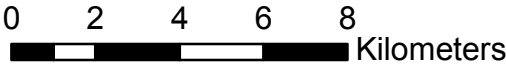


FIGURE 36

- Legend
- Greater Manchester Boundary
 - Local Authority Boundary
 - Inner Ring Road
 - M60
 - Income Deprivation Quintile 1
 - Lowest Reductions in Emissions in Deprivation Quintile 1
 - Highest Reductions in Emissions in Deprivation Quintile 1



| | | | | | | |
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| Project | | | | | | |
| Greater Manchester Clean Air Plan | | | | | | |
| Drawing Title | | | | | | |
| LSOAs with the 10% Highest/Lowest Reductions in Emissions (PM ₁₀ and NO _x) Which Contain the Most Deprived Areas under Option 5(i) | | | | | | |
| Scale @ A3 | | | | | | |
| 1:180,000 | | | DO NOT SCALE | | | |
| Jacobs No. | | BTGMO002 | | | | |
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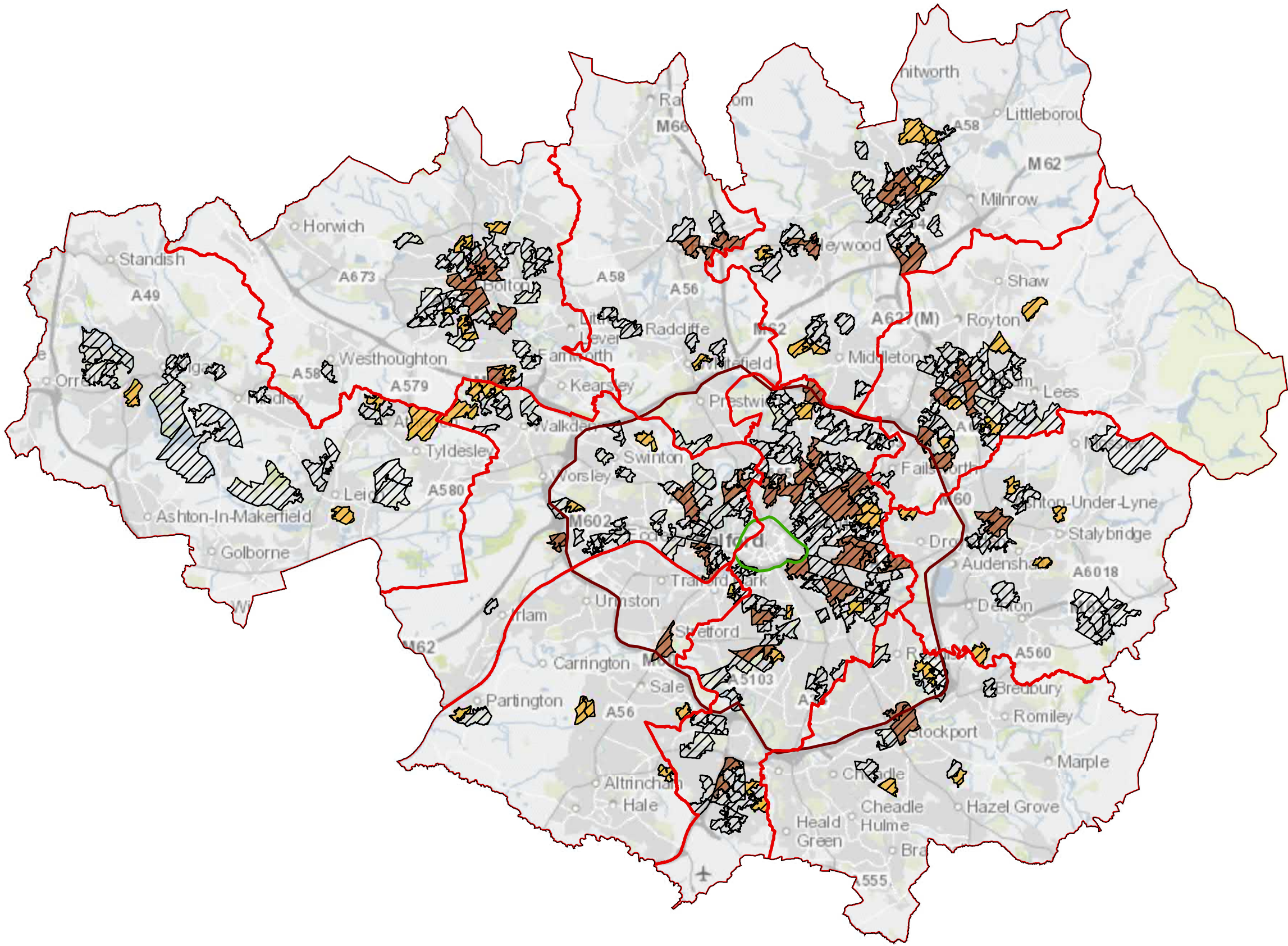


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FIGURE 37

- Legend
- Greater Manchester Boundary
 - Local Authority Boundary
 - Inner Ring Road
 - M60
 - Income Deprivation Quintile 1
 - Lowest Reductions in Emissions In Deprivation Quintile 1
 - Highest Reductions in Emissions In Deprivation Quintile 1



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Drawing Title
LSOAs with the 10% Highest/Lowest Reductions in Emissions (PM₁₀ and NO_x) Which Contain the Most Deprived Areas for Option 5(ii)

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0 2 4 6 8 Kilometers

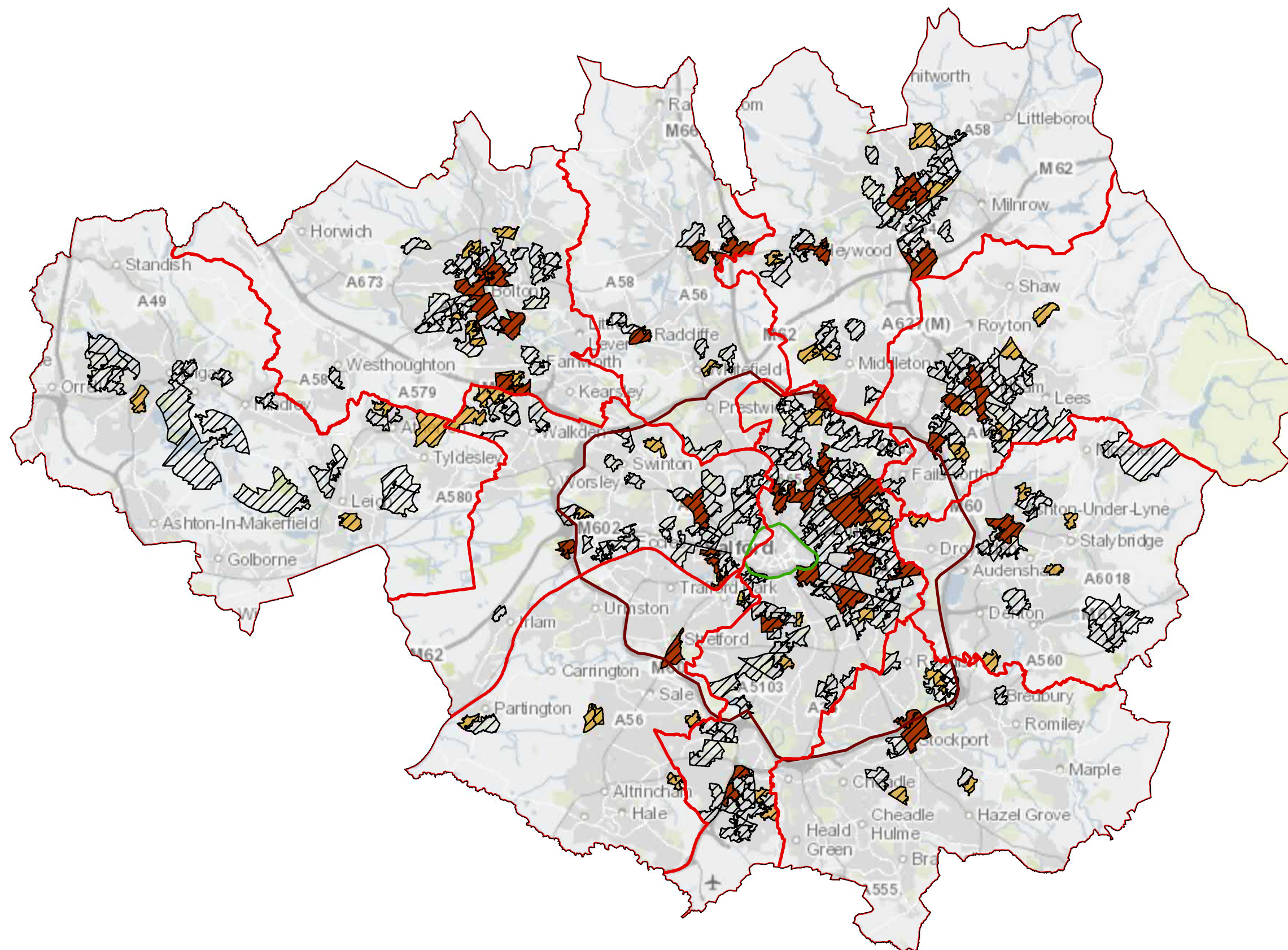
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FIGURE 38

Legend

- Greater Manchester Boundary
- Local Authority Boundary
- Inner Ring Road
- M60
- Income Deprivation Quintile 1
- Lowest Reductions in Emissions in Deprivation Quintile 1
- Highest reductions in Emissions in Deprivation Quintile 1



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Drawing Title
LSOAs with the 10% Highest/Lowest Reductions in Emissions (PM₁₀ and NO_x) Which Contain the Most Deprived Areas under Option 8

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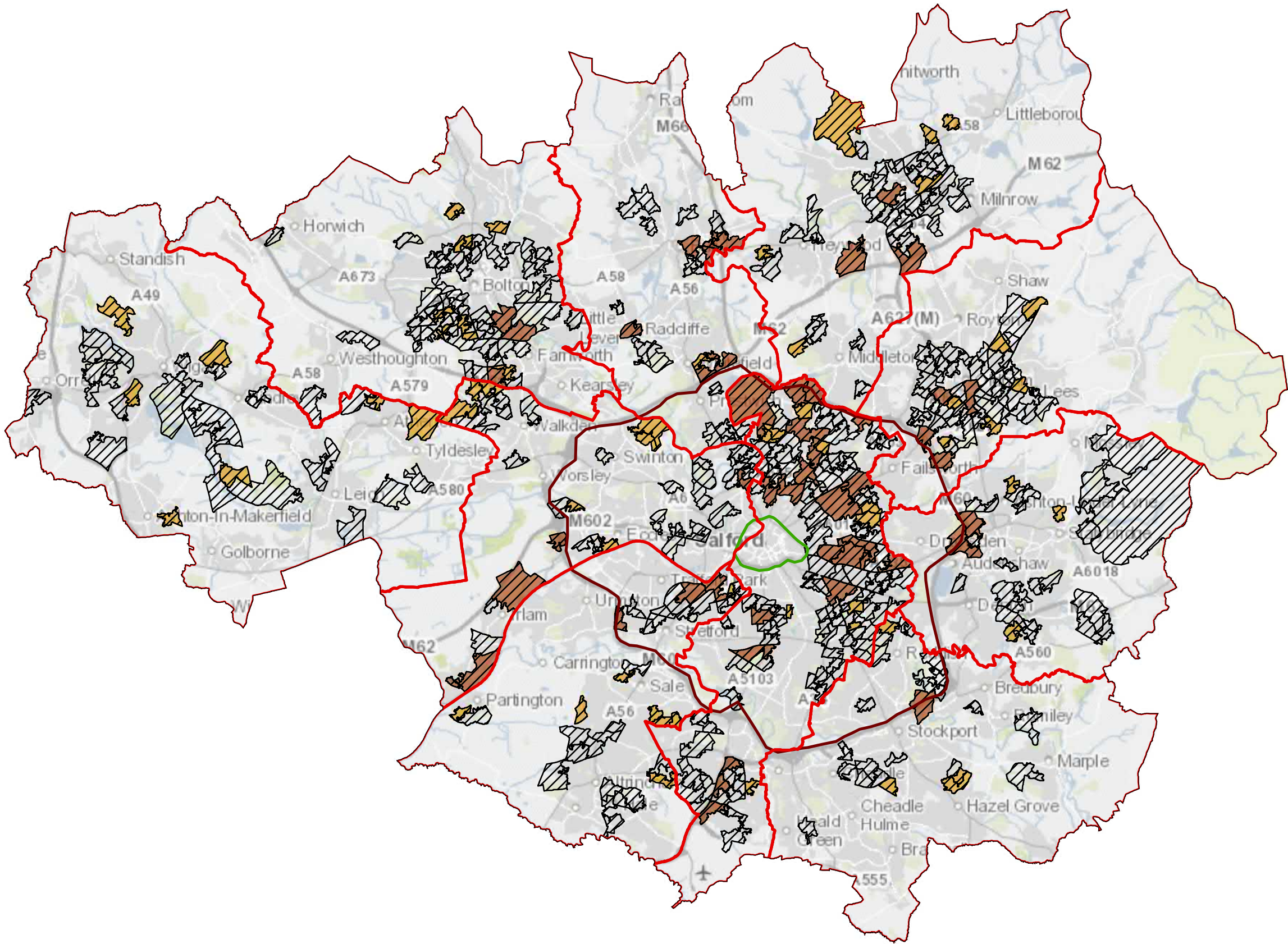
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0 2 4 6 8 Kilometers



FIGURE 39

- Legend
- Greater Manchester Boundary
 - Local Authority Boundary
 - Inner Ring Road
 - M60
 - Under 16s Quintile 1
 - Lowest Reductions in Emissions in Under 16's Quintile 1
 - Highest Reductions in Emissions in Under 16's Quintile 1



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0 2 4 6 8 Kilometers

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 Greater Manchester Boundary

 Local Authority Boundary

 Inner Ring Road

 M60

 Under 16s Quintile 1

Lowest Reductions in Emissions in Under 16s Quintile 1

 Highest Reductions in Emissions in Under 16s Quintile 1



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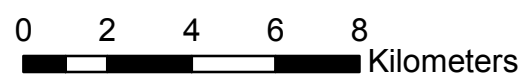
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|---------|-----------------------------------|
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Drawing Title

LSOAs with the 10% Highest/Lowest reductions in Emissions (PM₁₀ and NO_x) Which Also Contain the Most Under 16s for Option 5(ii)

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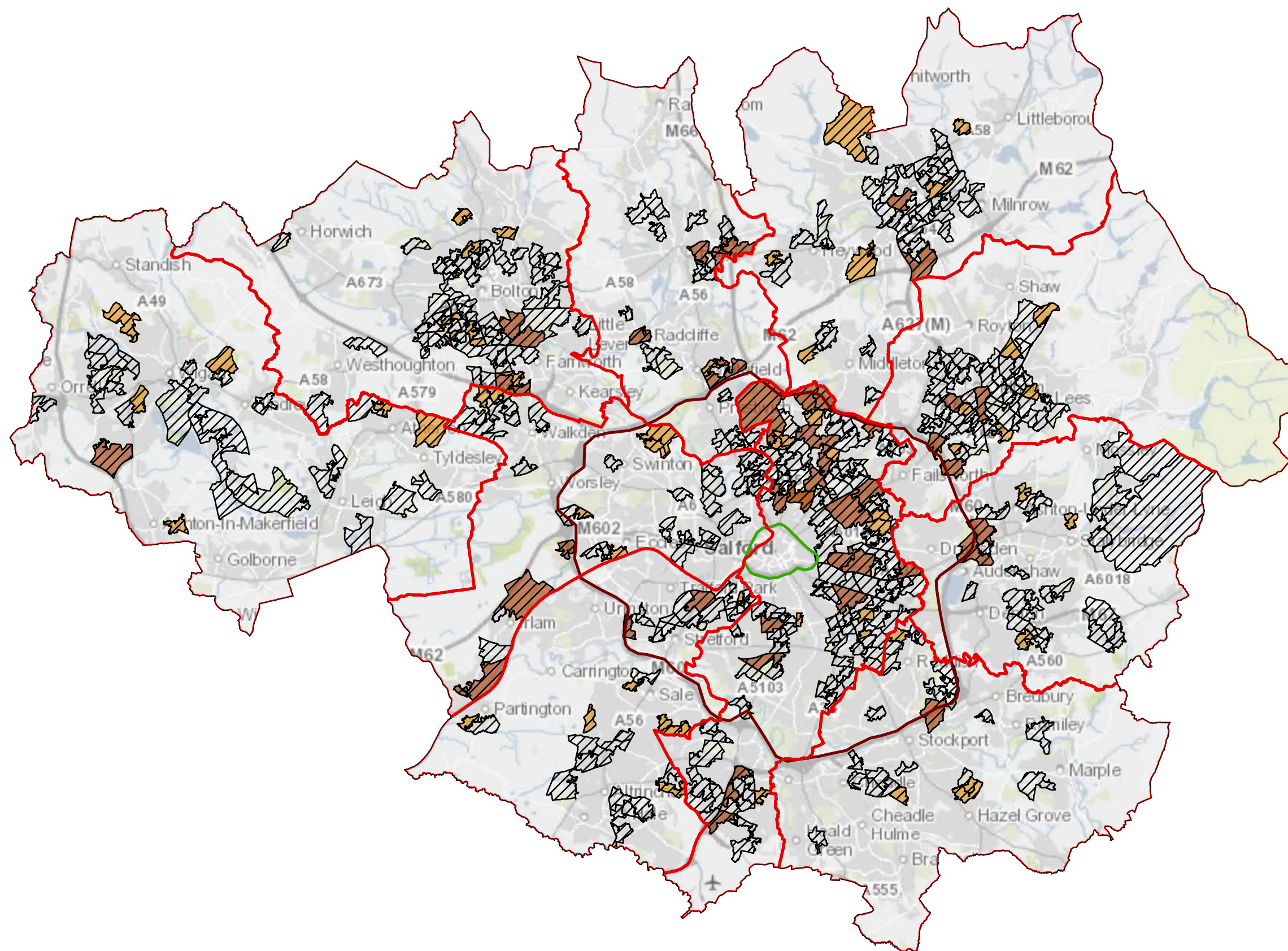
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FIGURE 41

Legend

- Greater Manchester Boundary
- Local Authority Boundary
- Inner Ring Road
- M60
- Under 16s Quintile 1
- Lowest Reductions in Emissions in Under 16s Quintile 1
- Highest Reductions in Emissions in Under 16s Quintile 1



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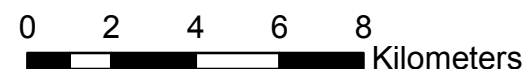
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Drawing Title
LSOAs with the 10% Highest/Lowest Reductions in Emissions (PM₁₀ and NO_x) Which Also Contain the Most Under 16s for Option 8








| | | |
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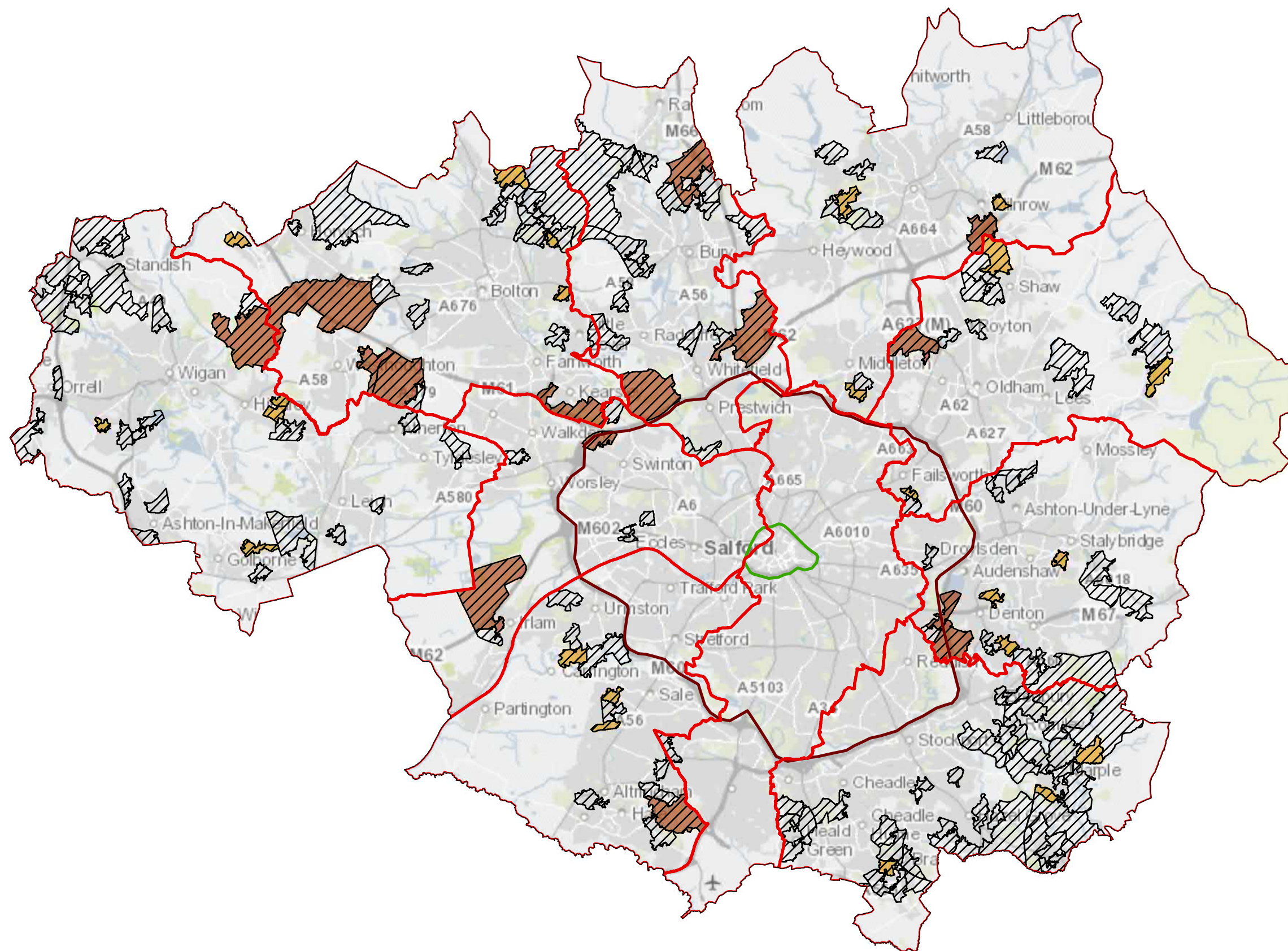
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-  Greater Manchester Boundary
-  Local Authority Boundary
-  Inner Ring Road
-  M60
-  Over 65s Quintile 1
-  Lowest Reductions in Emissions in Over 65s Quintile 1
-  Highest Reductions in Emissions in Over 65s Quintile 1



| | | | | | | |
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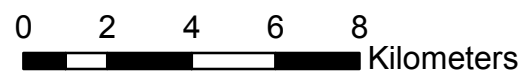
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Drawing Title

LSOAs with the 10% Highest/Lowest Reductions in Emissions (PM₁₀ and NO_x) Which Also Contain the Most Over 65s for Option 5(i)

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
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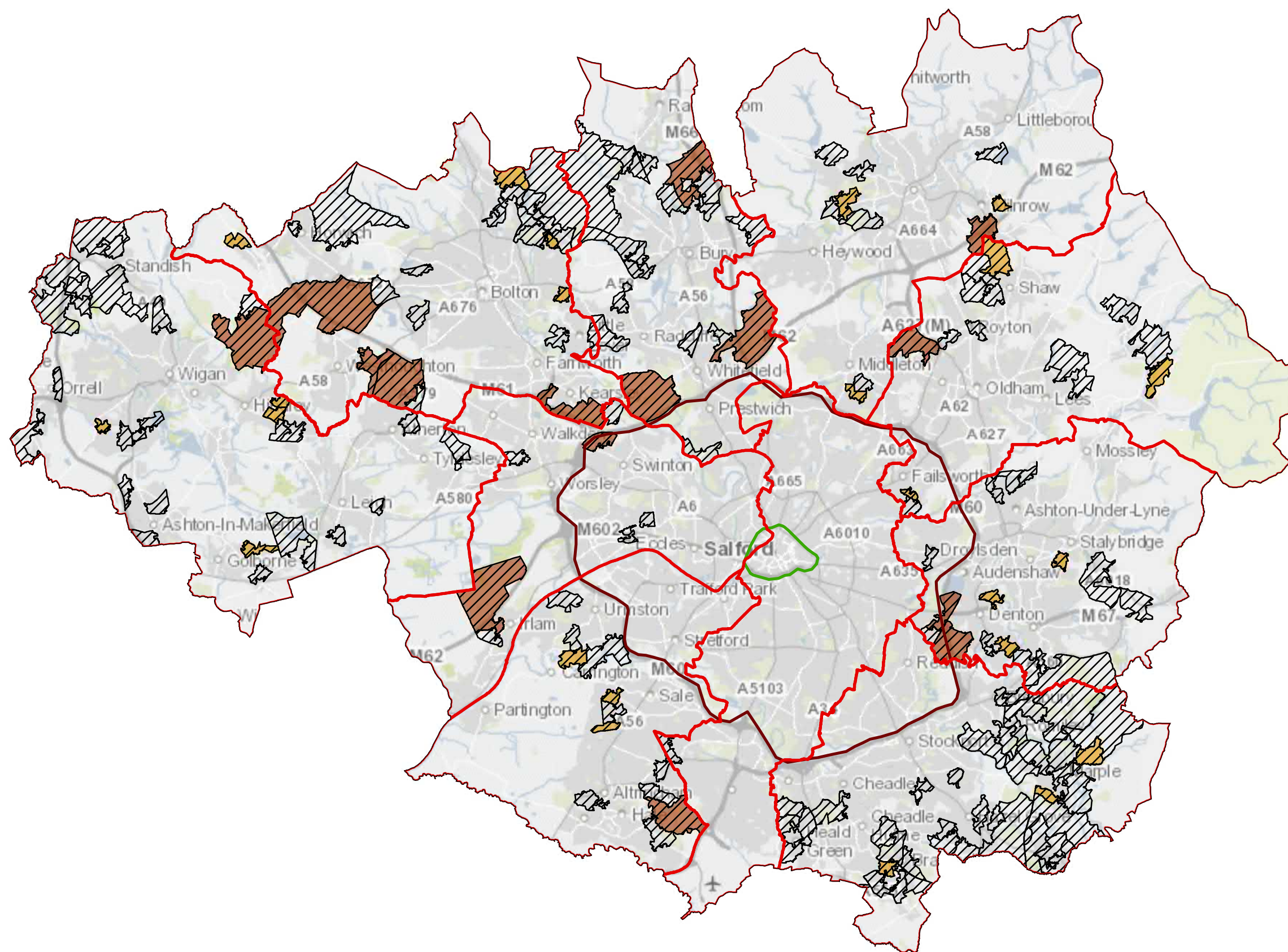


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FIGURE 43

Legend

-  Greater Manchester Boundary
-  Local Authority Boundary
-  Inner Ring Road
-  M60
-  Over 65s Quintile 1
-  Lowest Reductions in Emissions in Over 65's Quintile 1
-  Highest Reductions in Emissions in Over 65's Quintile 1



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LSOAs with the 10% Highest/Lowest Reductions in Emissions (PM₁₀ and NO_x) Which Also Contain the Most Over 65s for Option 5(ii)

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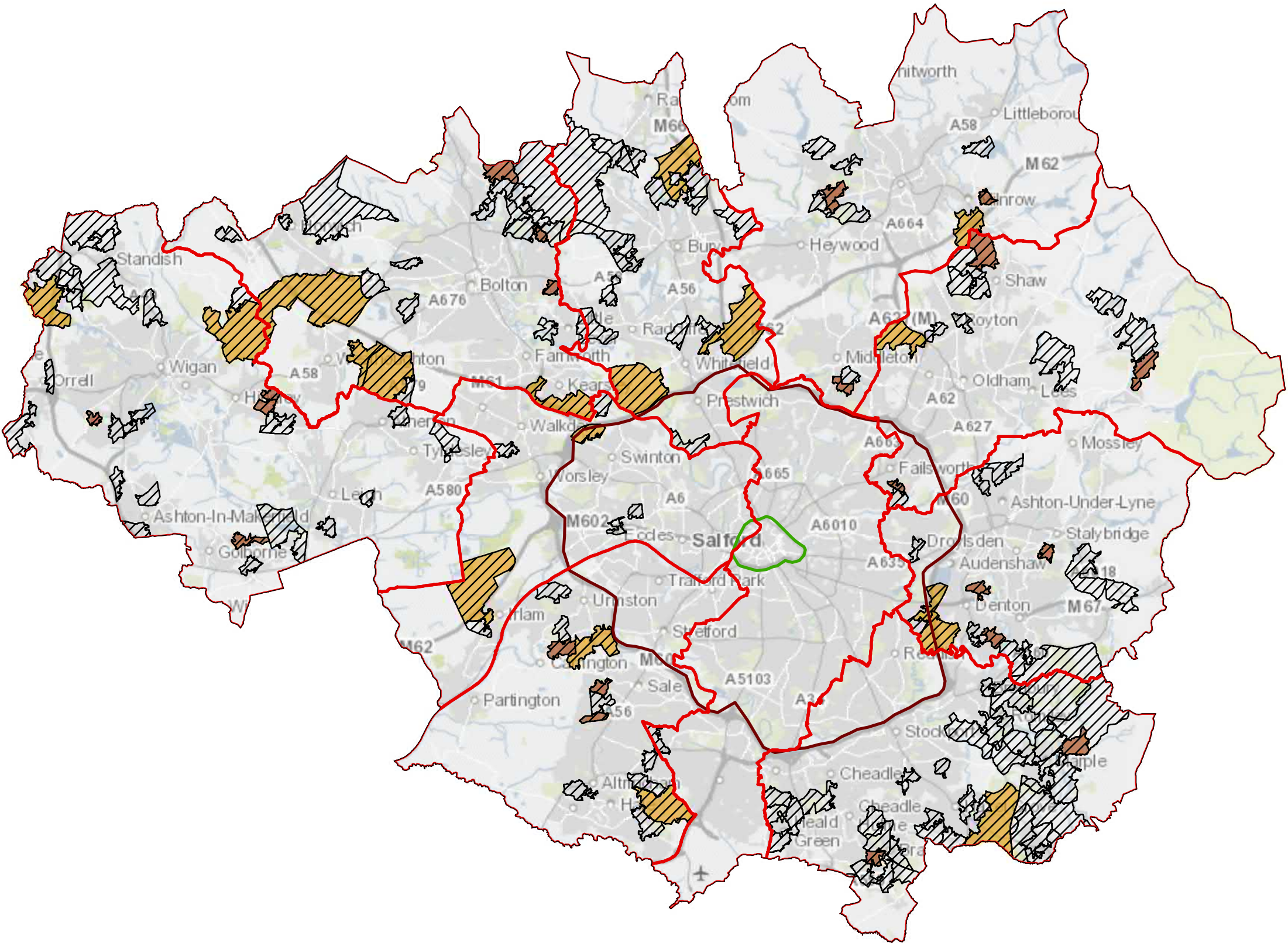
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FIGURE 44

- Legend
- Greater Manchester Boundary
 - Local Authority Boundary
 - Inner Ring Road
 - M60
 - Over 65s Quintile 1
 - Lowest Reductions in Emissions in Over 65s Quintile 1
 - Highest Reductions in Emissions in Over 65s Quintile 1



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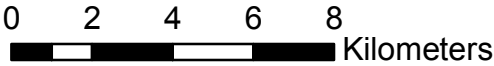
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Drawing Title

LSOAs with the 10% Highest/Lowest Reductions in Emissions (PM₁₀ and NO_x) Which Also Contain the Most Over 65s for Option 8

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FIGURE 45

- Legend
- Greater Manchester Boundary
 - Local Authority Boundary
 - Inner Ring Road
 - M60
 - Medical Facility
 - Care/Nursing Home
 - Primary School
 - Secondary School
 - University
 - Decrease in traffic flows >10%
 - Increase in traffic flows >10%
 - Links with >8000 vehicles per day



| | | | | | | |
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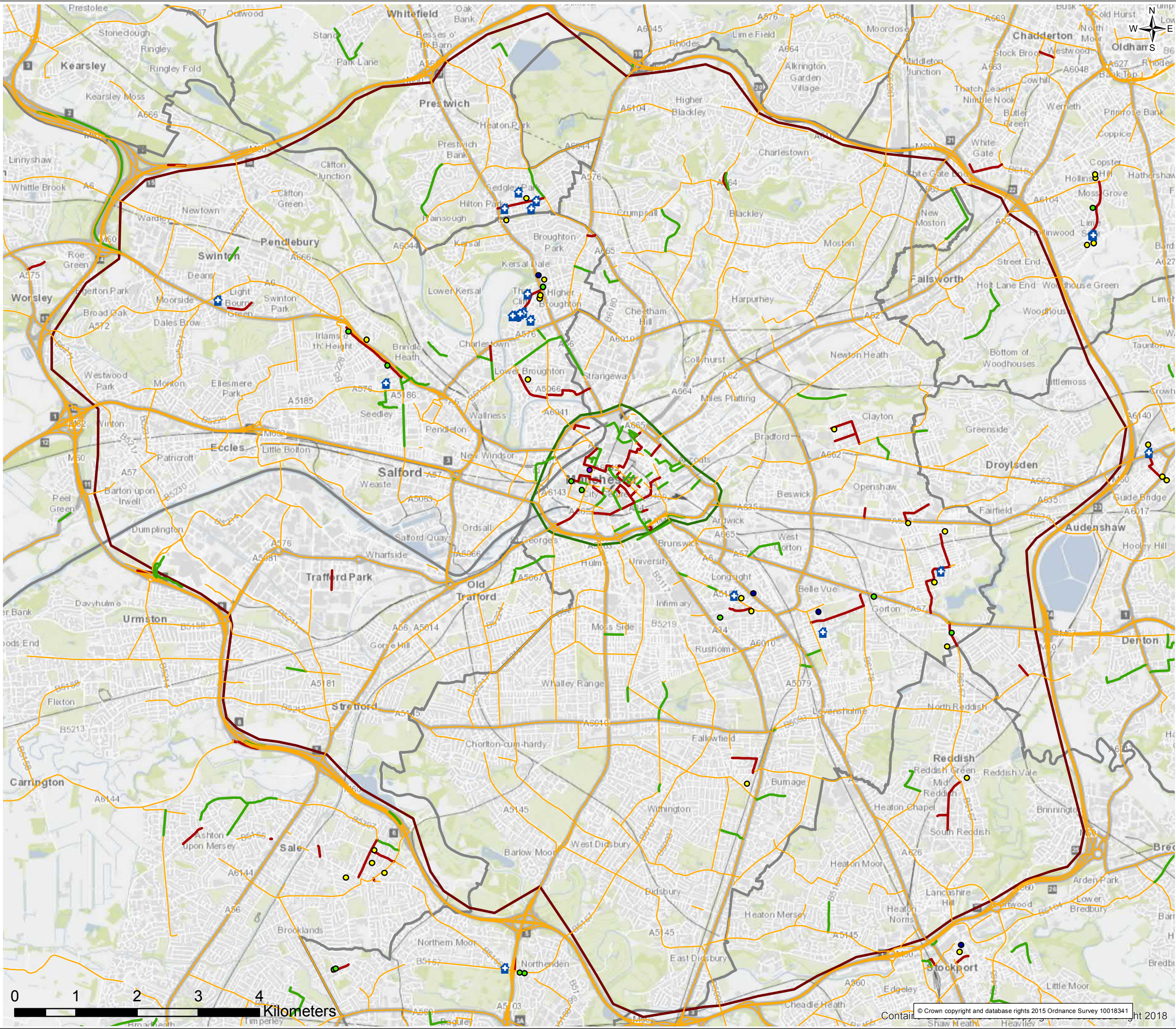
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0 2 4 6 8 Kilometers

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FIGURE 46



Legend

- Greater Manchester Boundary
- Local Authority Boundary
- Inner Ring Road
- M60
- Medical Facility
- Care/Nursing Home
- Primary School
- Secondary School
- University
- Decrease in traffic flows >10%
- Increase in traffic flows >10%
- Links with >8000 vehicles per day



| | | | | | | |
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FIGURE 47

Legend

- Greater Manchester Boundary
- Local Authority Boundary
- Inner Ring Road
- M60
- Medical Facility
- Care/Nursing Home
- Primary School
- Secondary School
- University
- Decrease in traffic flows >10%
- Increase in traffic flows >10%
- Links with >8000 vehicles per day



| | | | | | | |
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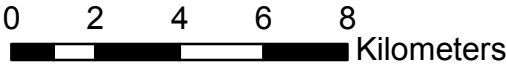
Greater Manchester Clean Air Plan

Drawing Title

Key Impact Areas for Effects Relating to Changes in Traffic Flows for CAP Option 8 in 2021 - Greater Manchester

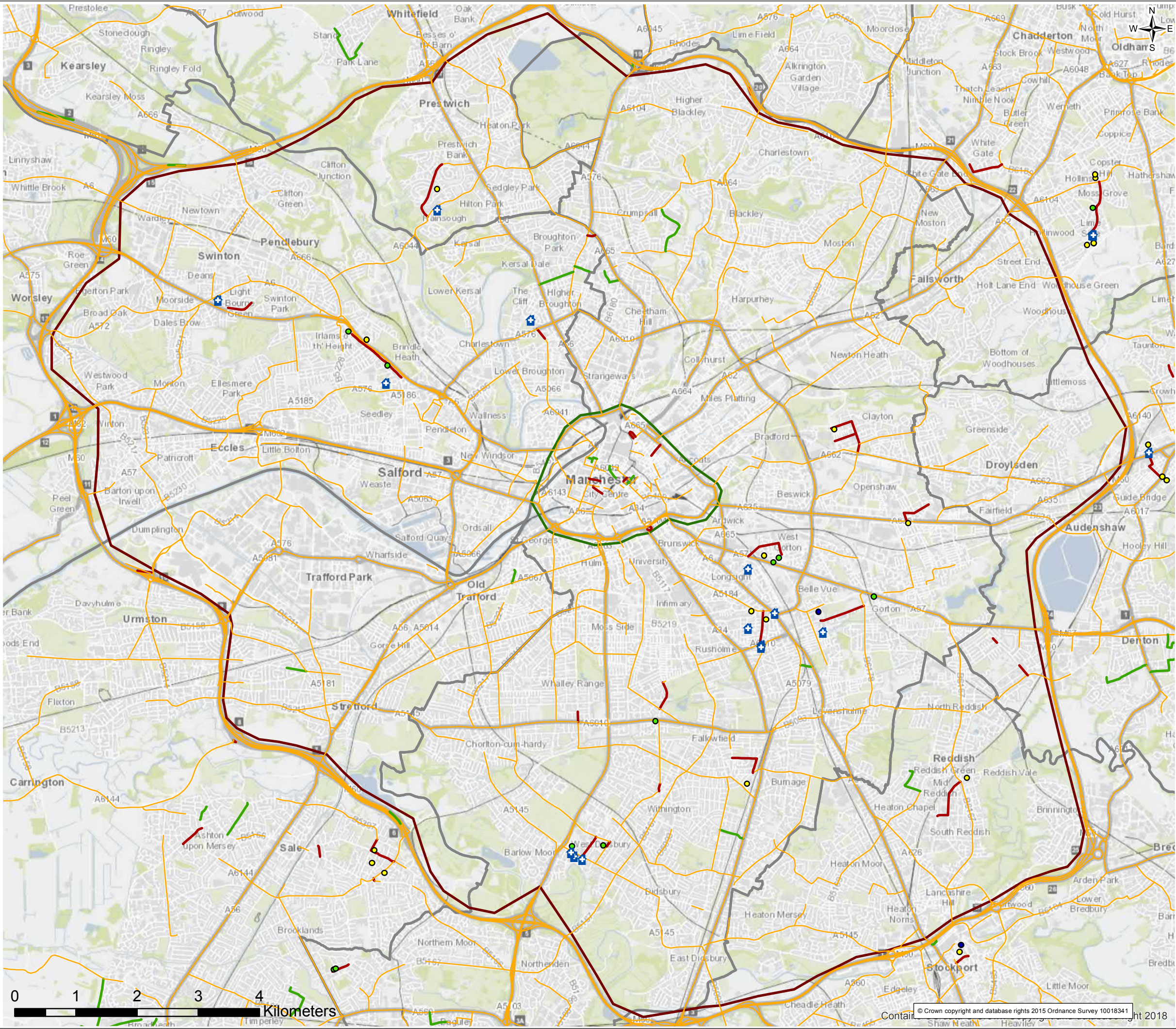
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FIGURE 48



Legend

- Greater Manchester Boundary
- Local Authority Boundary
- Inner Ring Road
- M60
- Medical Facility
- Care/Nursing Home
- Primary School
- Secondary School
- University
- Decrease in traffic flows >10%
- Increase in traffic flows >10%
- Links with >8000 vehicles per day

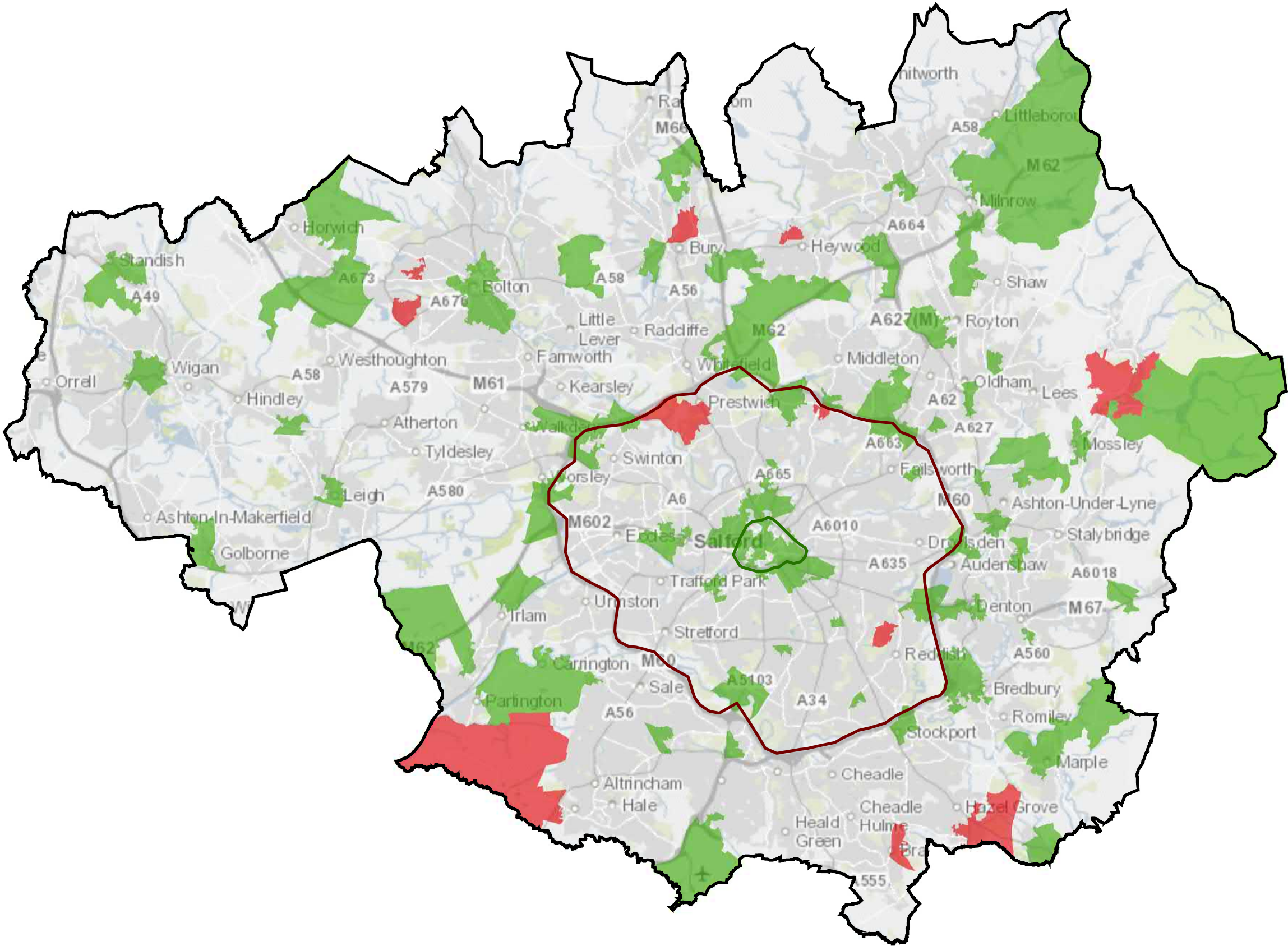


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FIGURE 49

- Legend
- Greater Manchester Boundary
 - Inner Ring Road
 - M60
 - 10% largest increases in journey times
 - 10% largest decreases in journey times



| | | | | | | |
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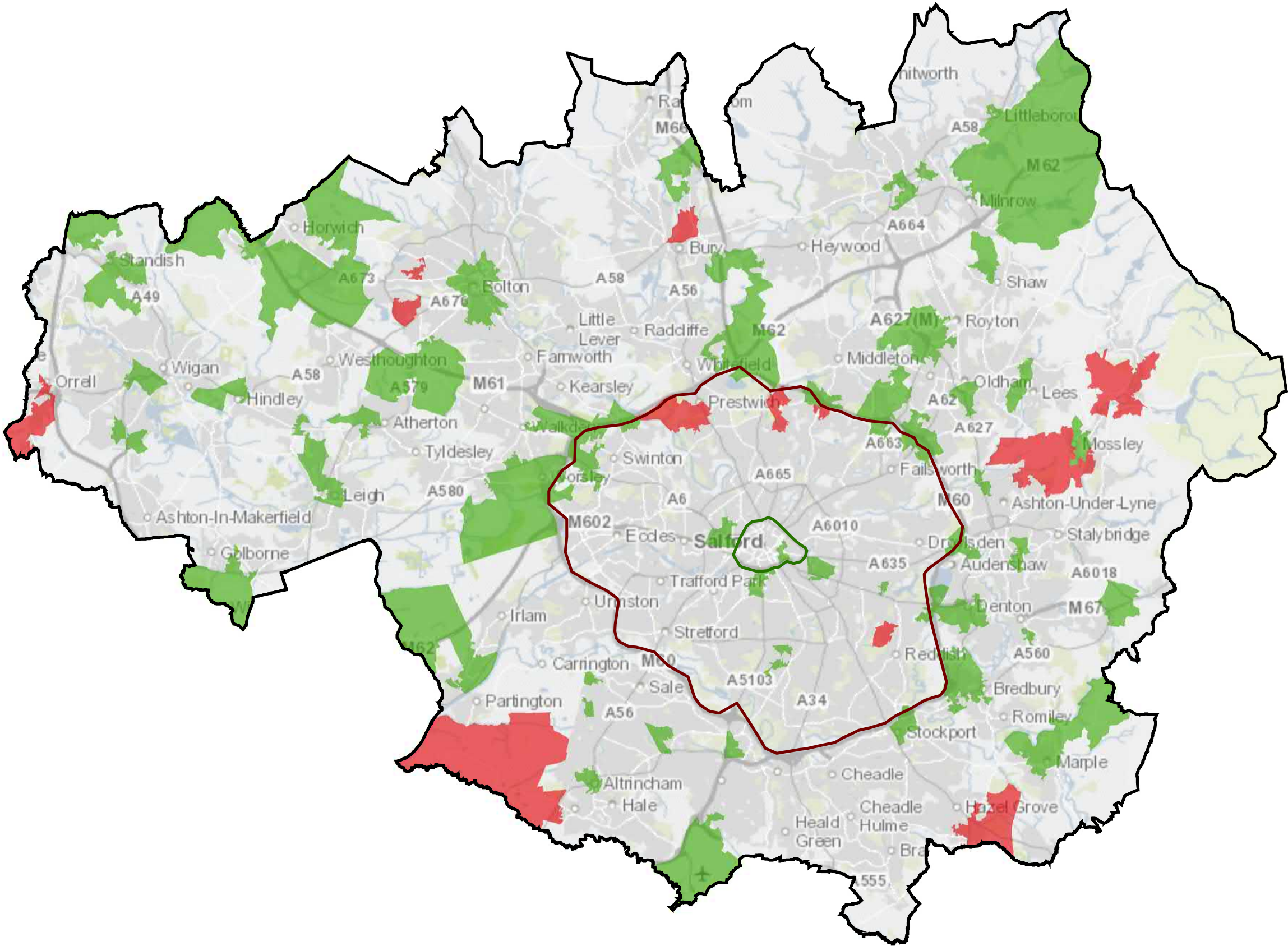
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FIGURE 50

- Legend
- Greater Manchester Boundary
 - Inner Ring Road
 - M60
 - 10% largest increases in journey times
 - 10% largest decreases in journey times



| | | | | | | |
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LSOAs With the 10% Largest Increases and Decreases in Journey Times for Option 8

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0 2 4 6 8 Kilometers

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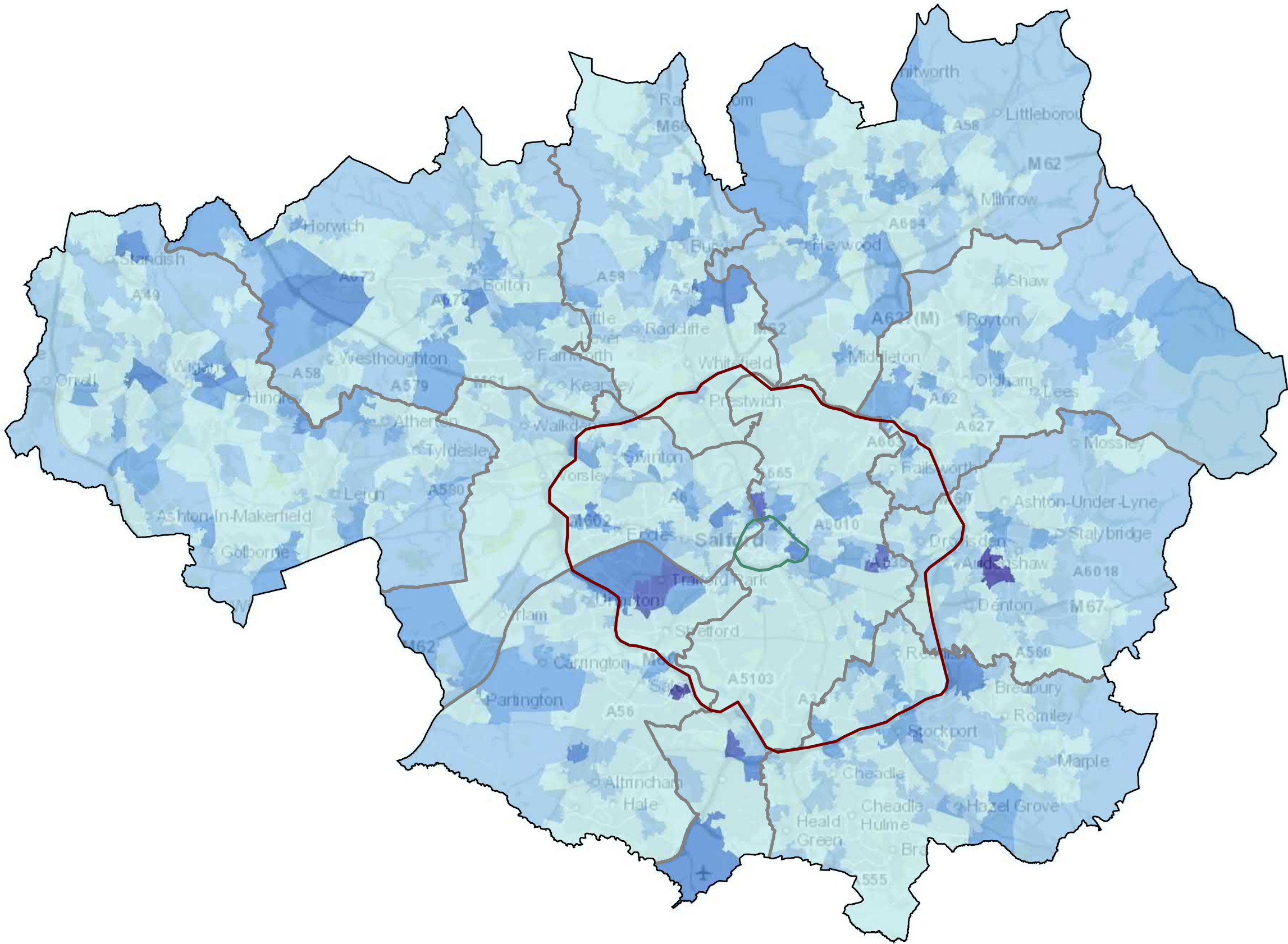
FIGURE 51

Legend

- Greater Manchester Boundary
- Local Authority Boundary
- M60
- Inner Ring Road

Total registered LGVs

- 0 - 60
- 61 - 120
- 121 - 300
- 301 - 600
- 601 - 2,200
- > 2,200



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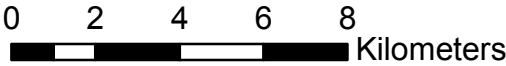
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Drawing Title

Total Registered LGVs
Within Each LSOA in Greater Manchester

| | | |
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