

Appendix G: Kent PNA 2025 maps and travel analysis

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Travel analysis methodology

All travel analysis has been calculated using the Shape Atlas tool.

Travel analyses collated from the Shape Atlas tool does not have an accessible methodology. Two Lower-layer Super Output Areas (LSOAs) in Swale district and one LSOA in Ashford district continuously don't appear within the travel catchment area. We have reported the data directly from Shape Atlas but question the accuracy of this data for those LSOAs. We cannot access the Shape Atlas methodology to investigate this further.

All travel analysis has been calculated for community pharmacies with a 40-hour and a 72-hour contract. Distance Selling Pharmacies, Dispensing Appliance Contractors and Dispensing Doctor Practices are excluded from the time to access analysis.

Travel analysis to pharmacies in Kent

Walking population coverage

Estimated number and percentage of residents in Kent who can walk to a community pharmacy within each time band.

Walking time	Population
10 minutes	929,661 (58.31%)
20 minutes	1,293,059 (81.10%)
30 minutes	1,381,186 (86.62%)

Private transport population coverage

Estimated number and percentage of residents in Kent with access to private transport who can drive to a community pharmacy within each time band.

Driving time	Population (Non-rush hour)	Population (Rush hour)
10 minutes	1,590,206 (99.73%)	1,588,187 (99.61%)
20 minutes	1,590,206 (99.73%)	1,590,206 (99.73%)
30 minutes	1,590,206 (99.73%)	1,590,206 (99.73%)

Public transport population coverage

Estimated number and percentage of residents in Kent who can reach a community pharmacy by public transport within each time band.

Public transport time	Population (Weekday morning)	Population (Weekday afternoon)	Population (Weekend morning)	Population (Weekend afternoon)
10 minutes	1,264,057 (79.28%)	1,233,580 (77.37%)	1,017,281 (63.80%)	1,204,995 (75.57%)
20 minutes	1,502,279 (94.22%)	1,504,659 (94.37%)	1,341,815 (84.15%)	1,487,559 (93.30%)
30 minutes	1,555,871 (97.58%)	1,545,277 (96.91%)	1,421,600 (89.16%)	1,531,773 (96.07%)

Travel maps for Kent area

Figure 1: Map of population coverage in 20 minutes walking from Kent pharmacies

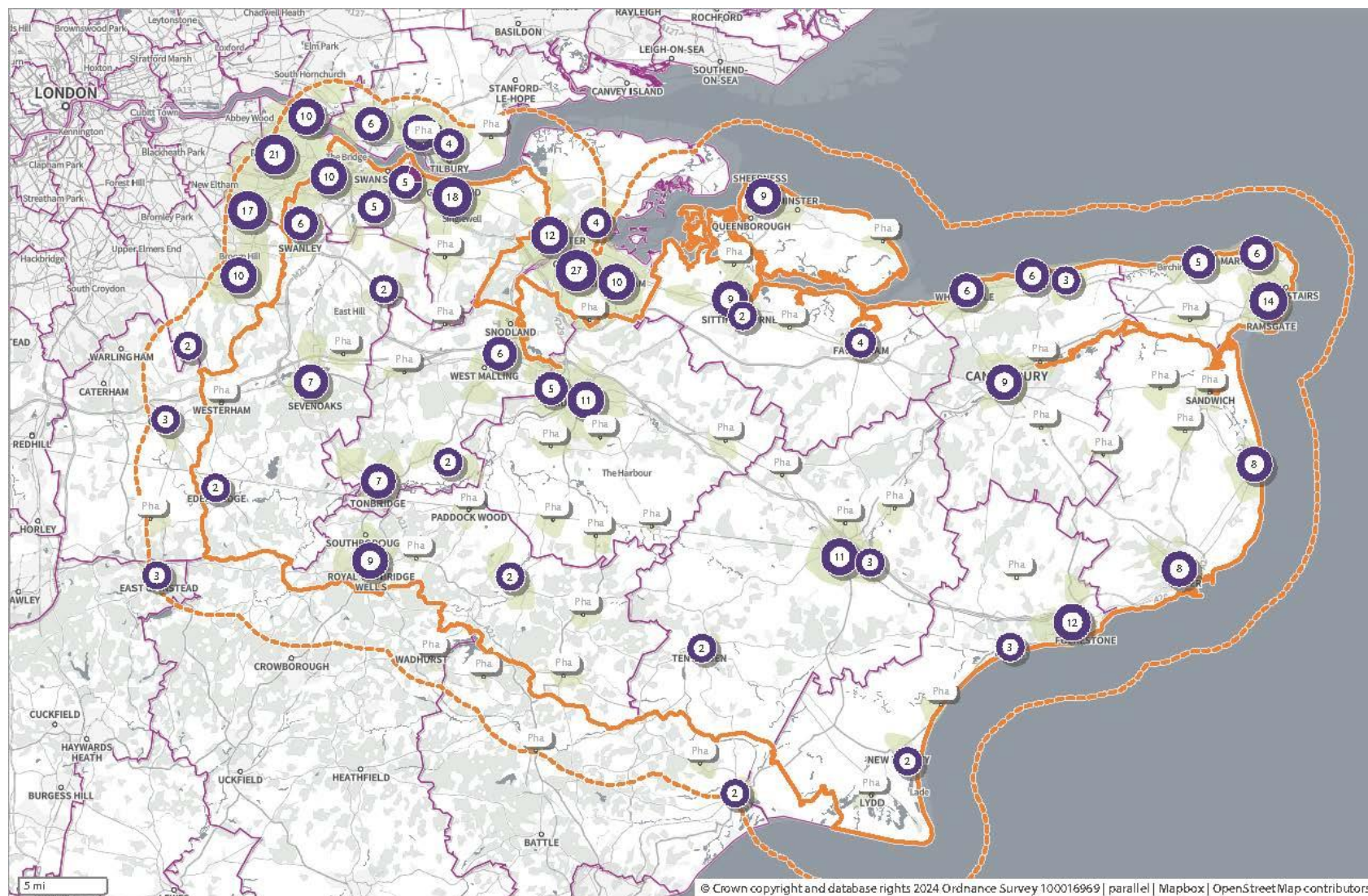


Figure 2: Map of population coverage by private transport in 20 minutes from Kent pharmacies (rush hour)

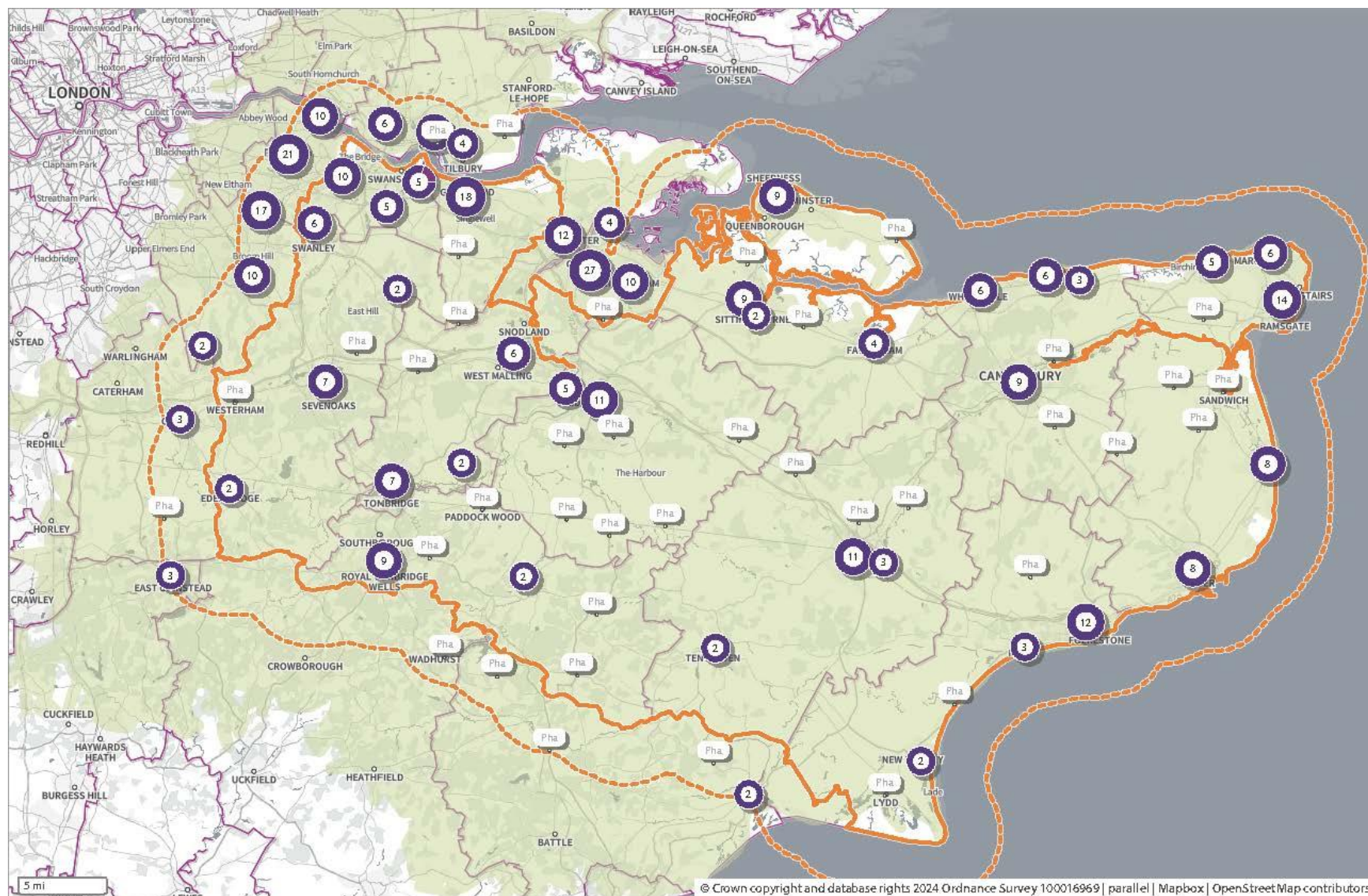
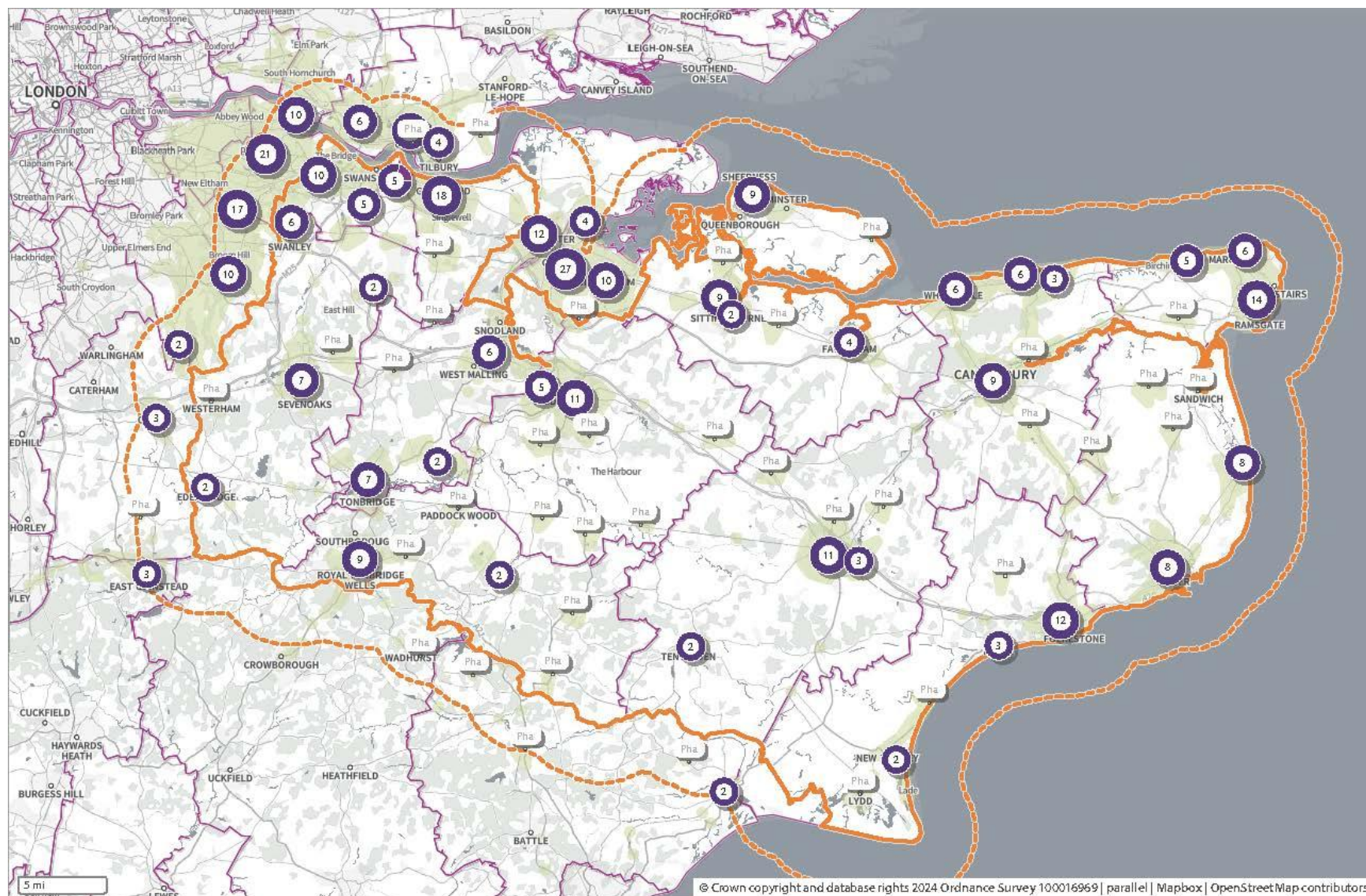


Figure 3: Map of population coverage by public transport in 20 minutes from Kent pharmacies (weekend morning)



Travel analysis to pharmacies in Kent districts

Walking population coverage by district

Estimated number and percentage of residents in Kent who can walk to a community pharmacy within each time band in each district.

Area	Population Walking (10 minutes)	Population Walking (20 minutes)	Population Walking (30 minutes)
Ashford	69,857 (51.46%)	95,736 (70.53%)	100,150 (73.78%)
Canterbury	91,539 (57.83%)	131,490 (83.07%)	141,245 (89.24%)
Dartford	74,770 (62.93%)	104,502 (87.96%)	107,790 (90.72%)
Dover	56,206 (47.82%)	78,358 (66.66%)	91,935 (78.21%)
Folkestone and Hythe	68,841 (62.38%)	83,689 (75.84%)	94,130 (85.30%)
Gravesham	83,175 (77.83%)	101,131 (94.63%)	105,598 (98.81%)
Maidstone	101,041 (55.96%)	149,731 (83%)	153,472 (84.99%)
Sevenoaks	66,399 (54.80%)	88,696 (73%)	97,926 (80.82%)
Swale	83,521 (54.02%)	125,455 (81%)	135,702 (87.78%)
Thanet	105,494 (74.99%)	135,336 (96%)	135,330 (96.19%)
Tonbridge and Malling	69,080 (51.68%)	107,218 (80%)	114,781 (85.87%)
Tunbridge Wells	68,062 (58.59%)	96,200 (83%)	101,368 (87.25%)
Kent	929,661 (58.31%)	1,320,694 (83%)	1,381,186 (86.62%)

Private transport population coverage by district

Estimated number and percentage of residents in Kent who can reach a community pharmacy within each time band during *non-rush hour* using private transport in each district.

Area	Population Private transport (10 minutes)	Population Private transport (20 minutes)	Population Private transport (30 minutes)
Ashford	135,741 (100%)	135,741 (100%)	135,741 (100%)
Canterbury	158,282 (100%)	158,282 (100%)	158,282 (100%)
Dartford	118,810 (100%)	118,810 (100%)	118,810 (100%)
Dover	117,546 (100%)	117,546 (100%)	117,546 (100%)
Folkestone and Hythe	110,356 (100%)	110,356 (100%)	110,356 (100%)
Gravesham	106,870 (100%)	106,870 (100%)	106,870 (100%)
Maidstone	180,569 (100%)	180,569 (100%)	180,569 (100%)
Sevenoaks	121,173 (100%)	121,173 (100%)	121,173 (100%)
Swale	150,337 (97.24%)	150,337 (97.24%)	150,337 (97.24%)
Thanet	140,638 (100%)	140,638 (100%)	140,638 (100%)
Tonbridge and Malling	133,664 (100%)	133,664 (100%)	133,664 (100%)
Tunbridge Wells	116,175 (100%)	116,175 (100%)	116,175 (100%)
Kent	1,590,206 (99.73%)	1,590,206 (99.73%)	1,590,206 (99.73%)

Estimated number and percentage of residents in Kent who can reach a community pharmacy within each time band during *rush hour* using private transport in each district.

Area	Population Private transport (10 minutes)	Population Private transport (20 minutes)	Population Private transport (30 minutes)
Ashford	132,095 (97.31%)	135,741 (100%)	135,741 (100%)
Canterbury	158,282 (100%)	158,282 (100%)	158,282 (100%)
Dartford	118,810 (100%)	118,810 (100%)	118,810 (100%)
Dover	117,546 (100%)	117,546 (100%)	117,546 (100%)
Folkestone and Hythe	110,356 (100%)	110,356 (100%)	110,356 (100%)
Gravesham	106,870 (100%)	106,870 (100%)	106,870 (100%)
Maidstone	180,569 (100%)	180,569 (100%)	180,569 (100%)
Sevenoaks	121,173 (100%)	121,173 (100%)	121,173 (100%)
Swale	150,337 (97.24%)	150,337 (97.24%)	150,337 (97.24%)
Thanet	140,638 (100%)	140,638 (100%)	140,638 (100%)
Tonbridge and Malling	133,664 (100%)	133,664 (100%)	133,664 (100%)
Tunbridge Wells	116,175 (100%)	116,175 (100%)	116,175 (100%)
Kent	1,588,187 (99.61%)	1,590,206 (99.73%)	1,590,206 (99.73%)

Public transport population coverage by district

Estimated number and percentage of residents in Kent who can reach a community pharmacy within each time band on a *weekday morning* by public transport in each district.

Area	Population Public transport (10 minutes)	Population Public transport (20 minutes)	Population Public transport (30 minutes)
Ashford	81,832 (60.29%)	103,485 (76.24%)	108,127 (79.66%)
Canterbury	114,215 (72.16%)	147,030 (92.89%)	150,560 (95.12%)
Dartford	94,526 (79.56%)	109,593 (92.24%)	111,014 (93.44%)
Dover	64,265 (54.67%)	91,742 (78.05%)	102,210 (86.95%)
Folkestone and Hythe	81,691 (74.02%)	96,863 (87.77%)	100,500 (91.07%)
Gravesham	99,659 (93.25%)	103,920 (97.24%)	106,870 (100%)
Maidstone	117,070 (64.83%)	158,847 (87.97%)	165,182 (91.48%)
Sevenoaks	76,053 (62.76%)	101,700 (83.93%)	112,283 (92.66%)
Swale	98,157 (63.49%)	134,983 (87.31%)	142,586 (92.23%)
Thanet	118,828 (84.47%)	135,330 (96.19%)	135,330 (96.19%)
Tonbridge and Malling	83,631 (62.57%)	116,775 (87.36%)	121,628 (91.00%)
Tunbridge Wells	88,298 (76.00%)	100,977 (86.92%)	106,248 (91.46%)
Kent	1,264,057 (79.28%)	1,502,279 (94.22%)	1,555,871 (97.58%)

Estimated number and percentage of residents in Kent who can reach a community pharmacy within each time band on a *weekday afternoon* by public transport in each district.

Area	Population Public transport (10 minutes)	Population Public transport (20 minutes)	Population Public transport (30 minutes)
Ashford	91,966 (67.75%)	118,427 (87.24%)	119,768 (88.23%)
Canterbury	122,991 (77.70%)	153,276 (96.84%)	156,831 (99.08%)
Dartford	97,809 (82.32%)	118,810 (100%)	118,810 (100%)
Dover	78,957 (67.17%)	105,706 (89.93%)	108,689 (92.47%)
Folkestone and Hythe	87,700 (79.47%)	102,456 (92.84%)	107,601 (97.50%)
Gravesham	103,994 (97.31%)	106,870 (100%)	106,870 (100%)
Maidstone	130,110 (72.06%)	165,698 (91.76%)	173,522 (96.15%)
Sevenoaks	90,380 (74.59%)	112,154 (92.56%)	116,915 (96.49%)
Swale	114,666 (74.17%)	147,139 (95.18%)	150,193 (97.15%)
Thanet	128,683 (91.47%)	138,753 (98.63%)	140,683 (100%)
Tonbridge and Malling	92,715 (69.36%)	122,009 (91.28%)	129,519 (96.90%)
Tunbridge Wells	93,609 (80.58%)	114,751 (98.77%)	114,751 (98.77%)
Kent	1,233,580 (77.37%)	1,504,659 (94.37%)	1,545,277 (96.91%)

Estimated number and percentage of residents in Kent who can reach a community pharmacy within each time band on a *weekend morning* by public transport in each district.

Area	Population Public transport (10 minutes)	Population Public transport (20 minutes)	Population Public transport (30 minutes)
Ashford	70,789 (52.15%)	93,491 (68.87%)	102,169 (75.27%)
Canterbury	111,270 (70.30%)	147,030 (92.89%)	150,560 (95.12%)
Dartford	89,599 (75.41%)	106,242 (89.42%)	109,211 (91.92%)
Dover	64,265 (54.67%)	89,728 (76.33%)	100,196 (85.24%)
Folkestone and Hythe	75,059 (68.02%)	89,332 (80.95%)	95,034 (86.12%)
Gravesham	94,369 (88.30%)	102,648 (96.05%)	105,598 (98.81%)
Maidstone	102,503 (56.77%)	151,056 (83.66%)	160,074 (88.65%)
Sevenoaks	65,550 (54.10%)	93,843 (77.45%)	105,694 (87.23%)
Swale	82,263 (53.21%)	125,851 (81.41%)	135,702 (87.78%)
Thanet	118,586 (84.29%)	135,330 (96.19%)	135,330 (96.19%)
Tonbridge and Malling	71,062 (53.16%)	113,912 (85.22%)	118,765 (88.85%)
Tunbridge Wells	71,966 (61.95%)	93,352 (80.35%)	99,944 (86.03%)
Kent	1,017,281 (63.80%)	1,341,815 (84.15%)	1,421,600 (89.16%)

Estimated number and percentage of residents in Kent who can reach a community pharmacy within each time band on a *weekend afternoon* by public transport in each district.

Area	Population Public transport (10 minutes)	Population Public transport (20 minutes)	Population Public transport (30 minutes)
Ashford	86,465 (63.70%)	118,427 (87.24%)	119,768 (88.23%)
Canterbury	124,816 (78.86%)	153,276 (96.84%)	155,073 (97.97%)
Dartford	100,126 (84.27%)	118,810 (100%)	118,810 (100%)
Dover	72,427 (61.62%)	102,291 (87.02%)	108,689 (92.47%)
Folkestone and Hythe	85,771 (77.72%)	102,456 (92.84%)	107,601 (97.50%)
Gravesham	102,477 (95.89%)	106,870 (100%)	106,870 (100%)
Maidstone	124,416 (68.90%)	160,338 (88.80%)	168,462 (93.30%)
Sevenoaks	87,432 (72.15%)	110,431 (91.13%)	115,628 (95.42%)
Swale	109,762 (71.00%)	145,909 (94.38%)	150,193 (97.15%)
Thanet	128,683 (91.47%)	140,683 (100%)	140,683 (100%)
Tonbridge and Malling	88,971 (66.56%)	116,367 (87.06%)	125,880 (94.18%)
Tunbridge Wells	93,609 (80.58%)	113,091 (97.35%)	113,091 (97.35%)
Kent	1,204,995 (75.57%)	1,487,559 (93.30%)	1,531,773 (96.07%)

Maps for Kent districts

For each district, the following maps are available:

- Map of pharmacies by contract hours
- Population coverage to reach a community pharmacy within 20 minutes walking
- Population coverage to reach a community pharmacy within 20 minutes by private transport (rush hour)
- Population coverage to reach a community pharmacy within 20 minutes by public transport (rush hour).

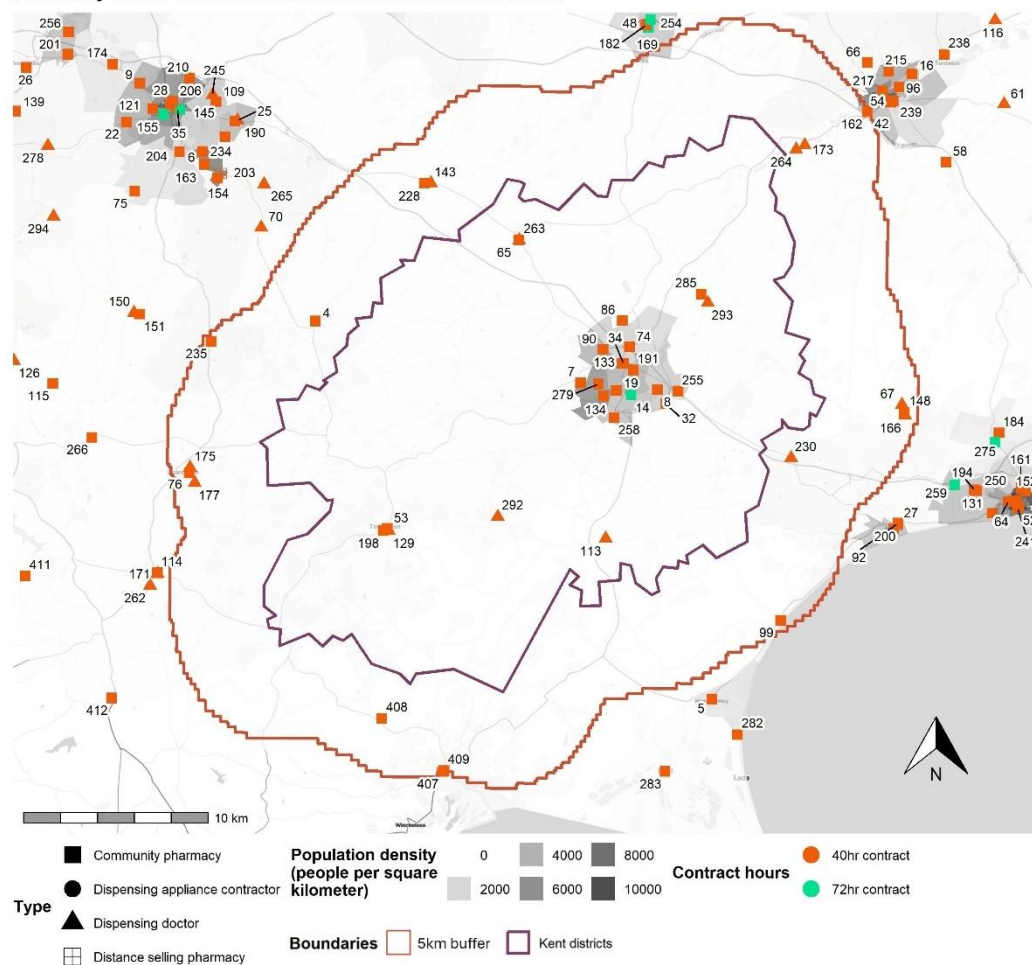
Maps notes

- The pharmacy list provided by Soar Beyond includes community pharmacies, dispensing GPs, dispensing appliance contractors and distance selling pharmacies.
- The pharmacy list from NHS BSA for sites in the 5km buffer zone on each Kent-wide map includes community pharmacies, dispensing appliance contractors and distance selling pharmacies only. Dispensing GPs are not included because very limited data was available.
- Maps of contract hours include DSPs, DACs and dispensing GPs as well as community pharmacies. The type of site is still denoted by the shape on the map.
- The population source for maps which include the population density thematic layer is the Office for National Statistics middle-layer super output area mid-year population estimates 2021 and is available for all areas included on the map.
- Maps including population density will only include dispensing sites within the district and its buffer area – sites outside of these areas are not plotted.
- Eckersley Pharmacy (no. 96 on the Canterbury district map) has the postcode CT1 1WJ. The NHS Digital postcode lookup matches this to an incorrect location – the latitude and longitude of the point on the district Canterbury map has been manually altered to reflect its true location.
- Travel analyses collated from the Shape Atlas tool does not have an accessible methodology. Two LSOAs in Swale district and one LSOA in Ashford district continuously don't appear within the travel catchment area. We have reported the data directly from Shape Atlas but question the accuracy of this data for those LSOAs. We cannot access the Shape Atlas methodology to investigate this further.

Ashford maps

Figure 4: Pharmacy sites, contract hours Ashford (with 5 km buffer)

Pharmacy sites: Contract hours in Ashford with 5km buffer



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Contains OS data © Crown Copyright and database 2024
Map baselayer source: Stadia Maps
Pharmacy sites by contract hours in Ashford
Produced by KPHO

Figure 5: Ashford walking 20 minutes

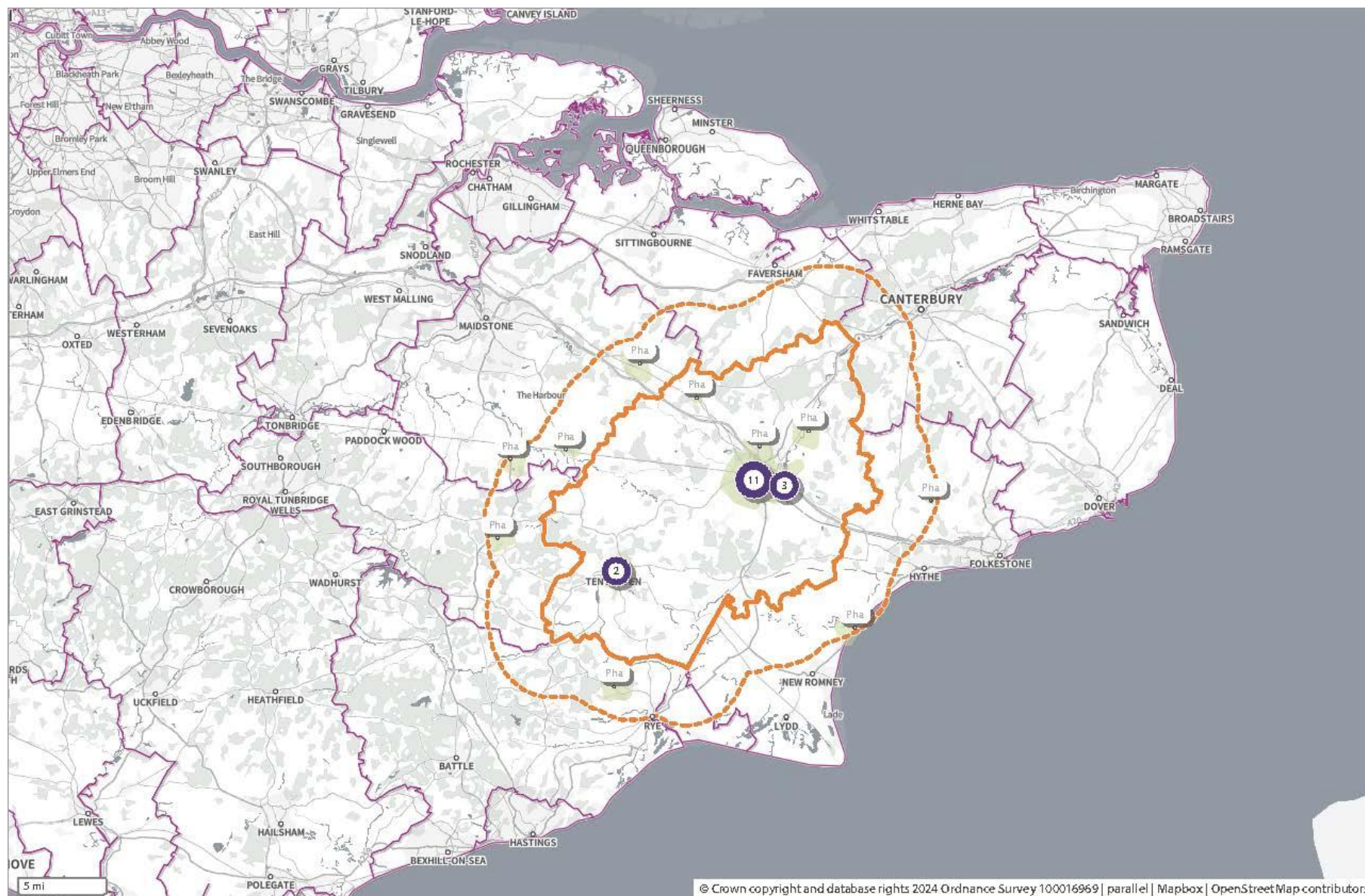


Figure 6: Ashford driving 20 minutes rush hour

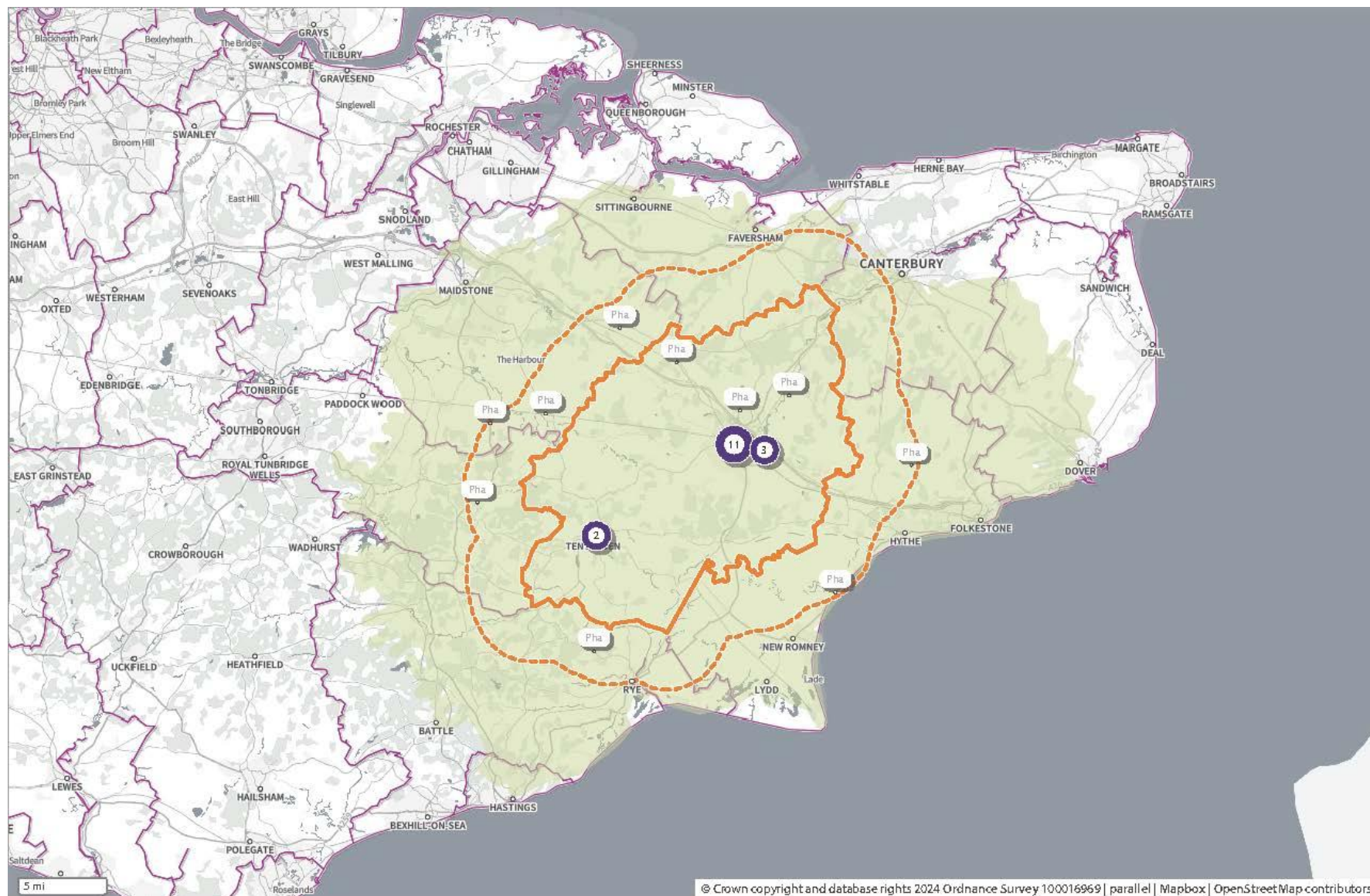
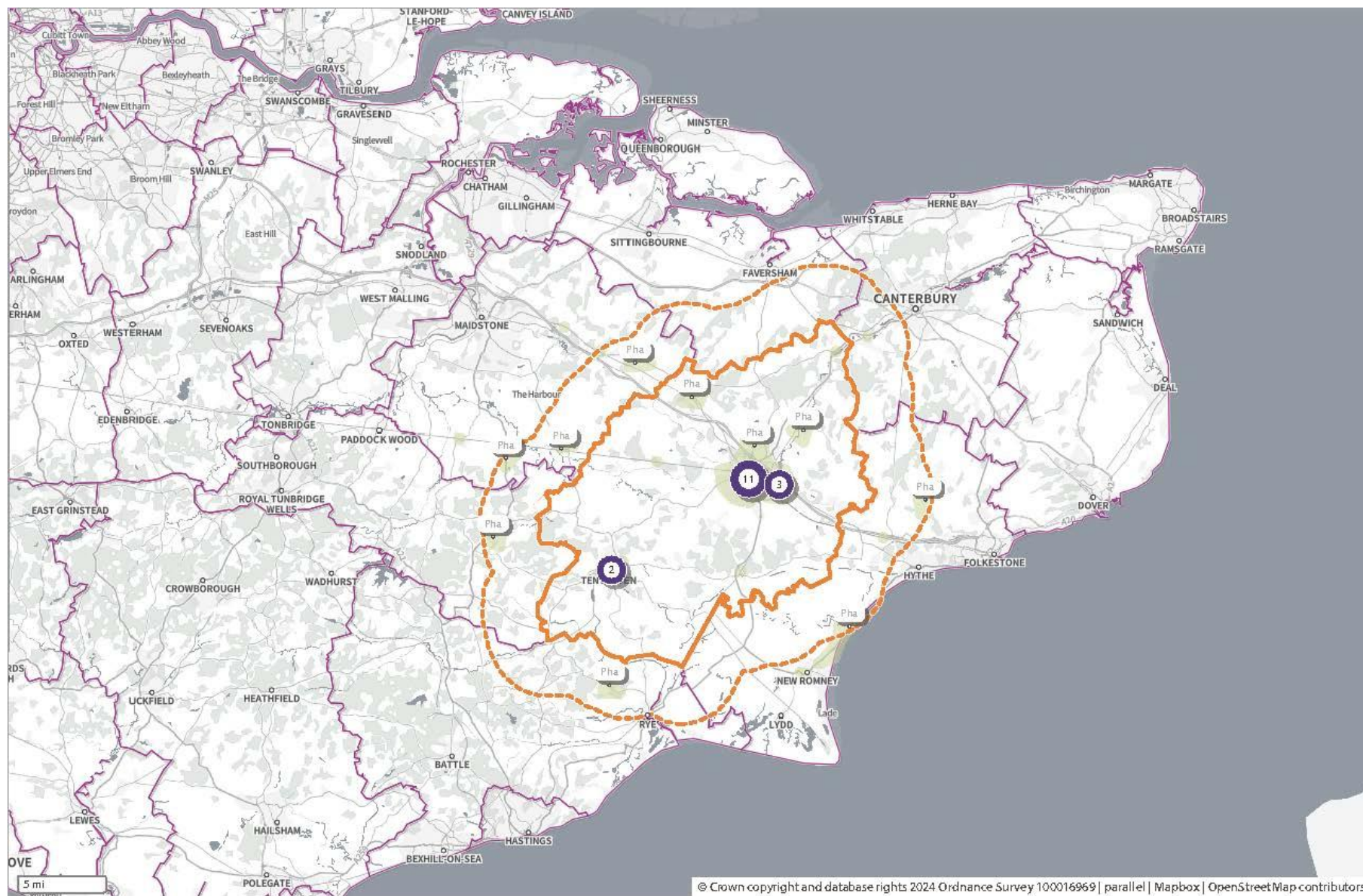


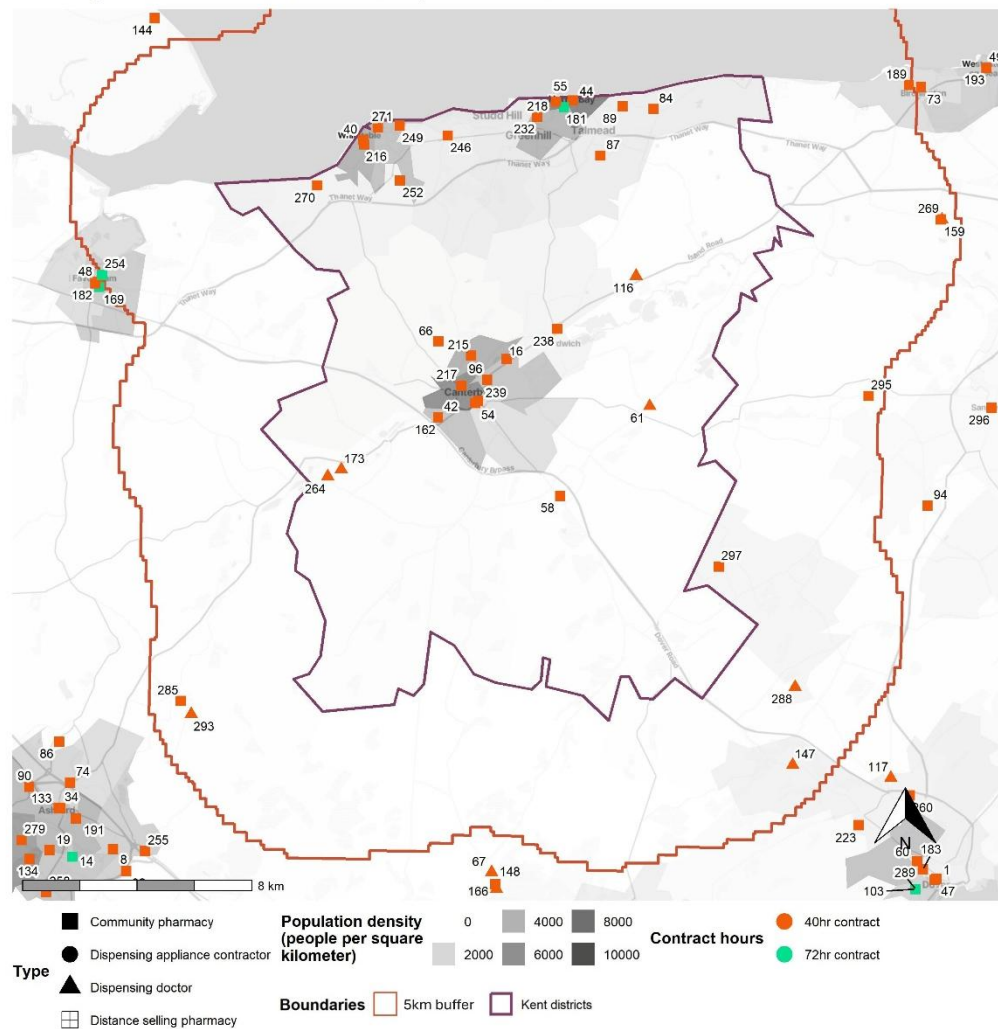
Figure 7: Ashford public transport 20 minutes weekend morning



Canterbury maps

Figure 8: Pharmacy sites, contract hours in Canterbury (with 5 km buffer)

Pharmacy sites: Contract hours in Canterbury with 5km buffer



Digital boundary source:
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Map baselayer source: Stadia Maps
Pharmacy sites by contract hours in Canterbury
Produced by KPHO

Figure 9: Canterbury walking 20 minutes

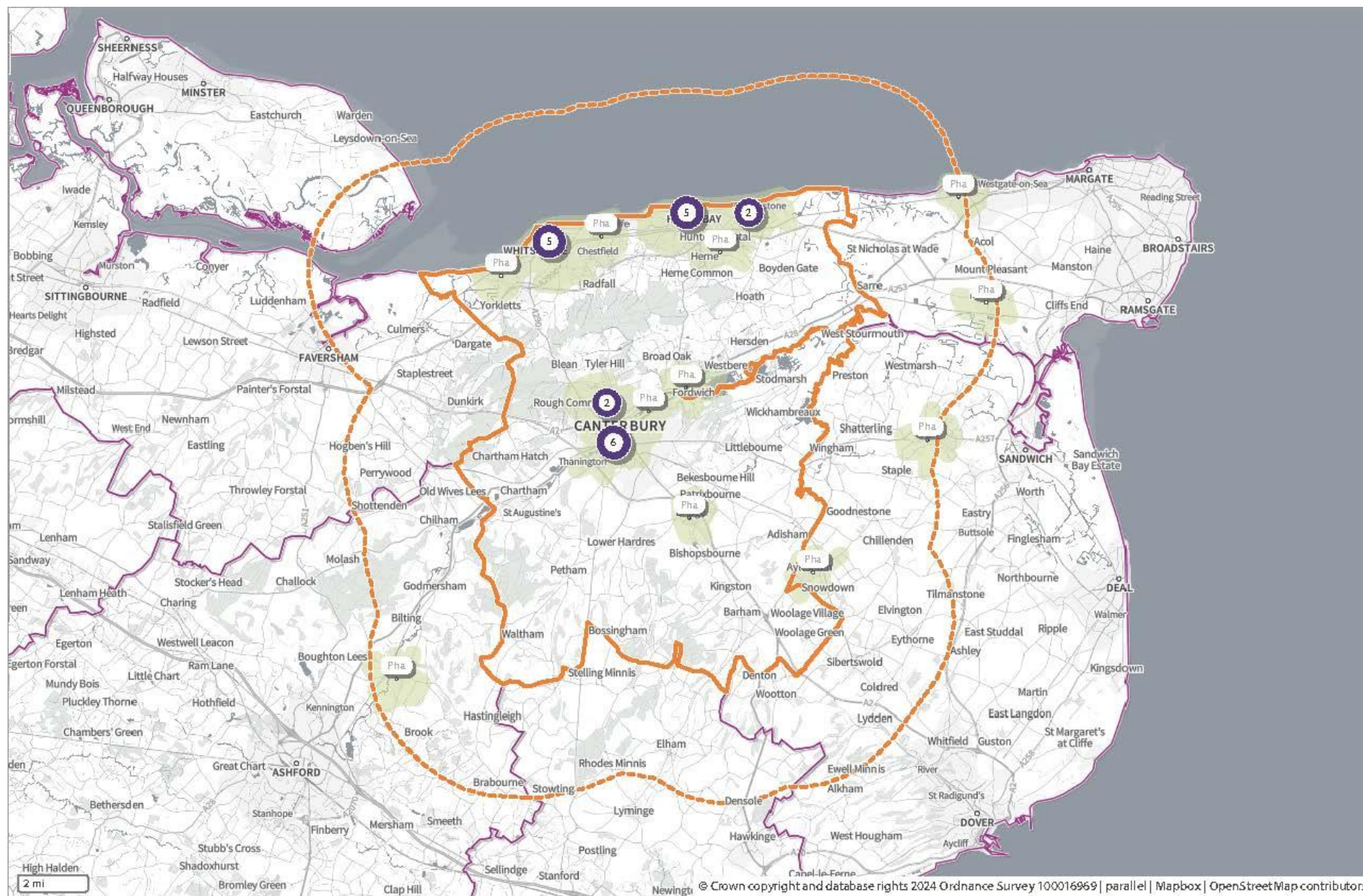


Figure 10: Canterbury driving 20 minutes rush hour

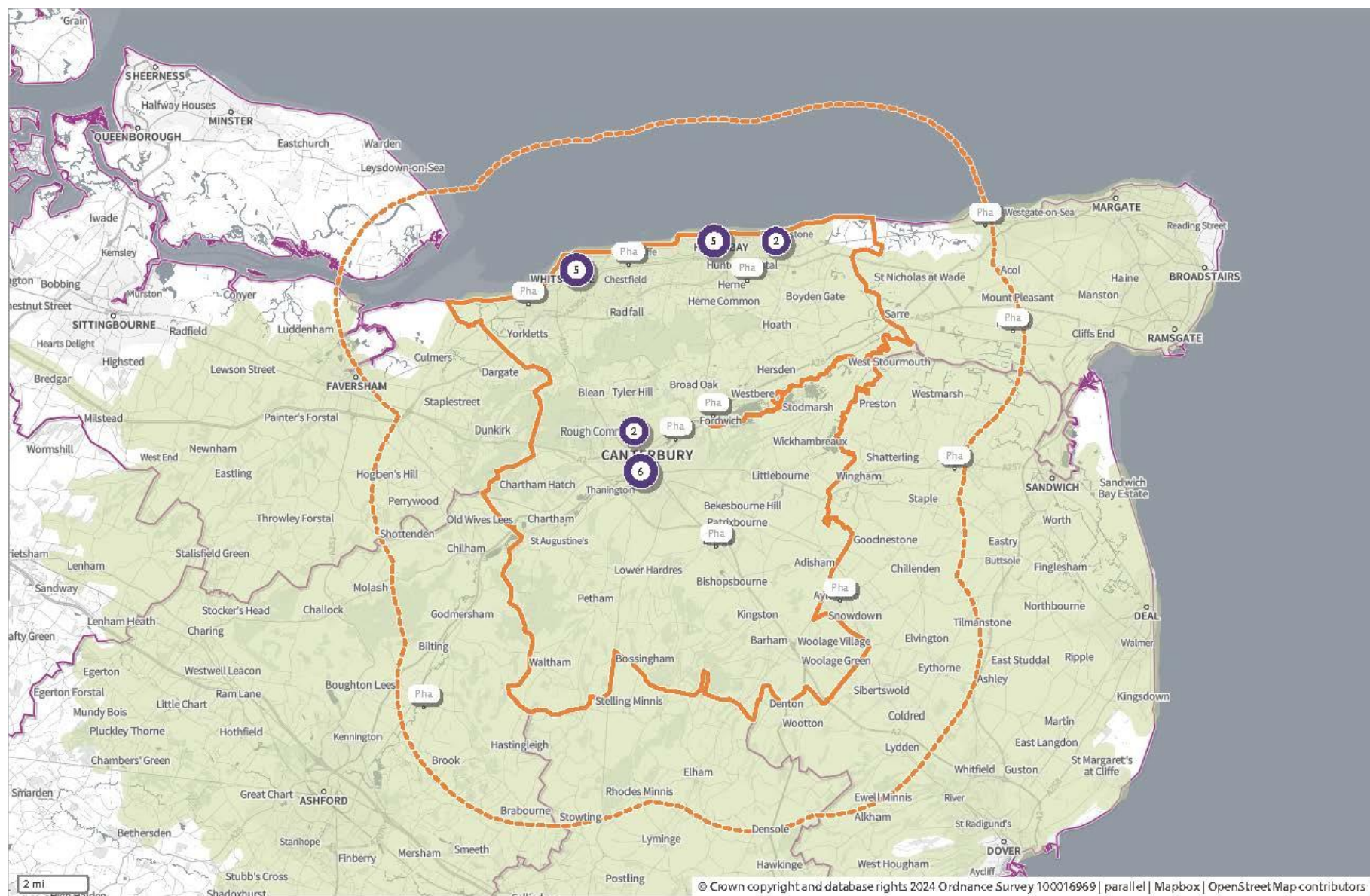
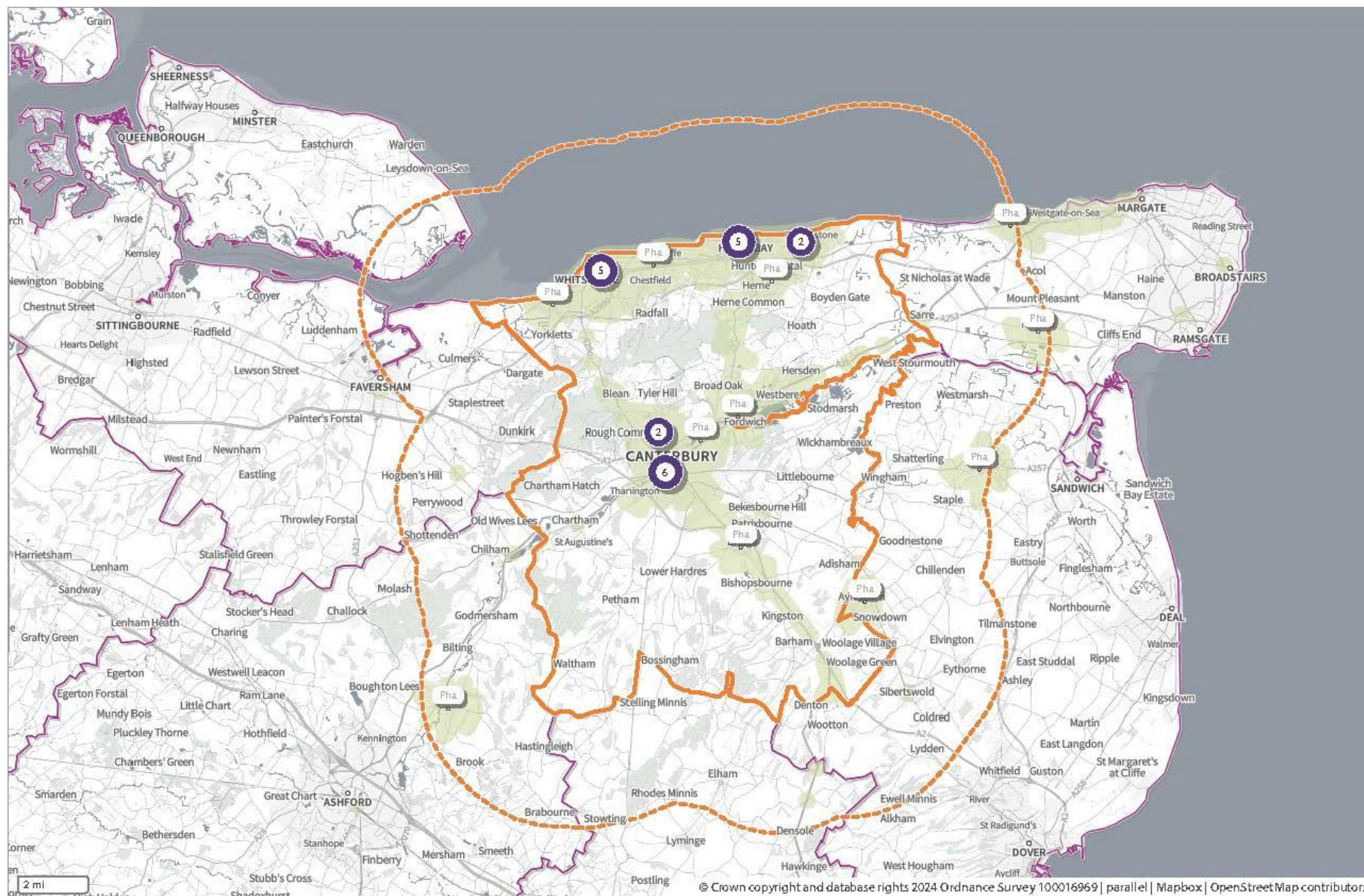


Figure 11: Canterbury public transport 20 minutes weekend morning



Dartford maps

Figure 12: Pharmacy sites, contract hours in Dartford (with 5 km buffer)

Pharmacy sites: Contract hours in Dartford with 5km buffer

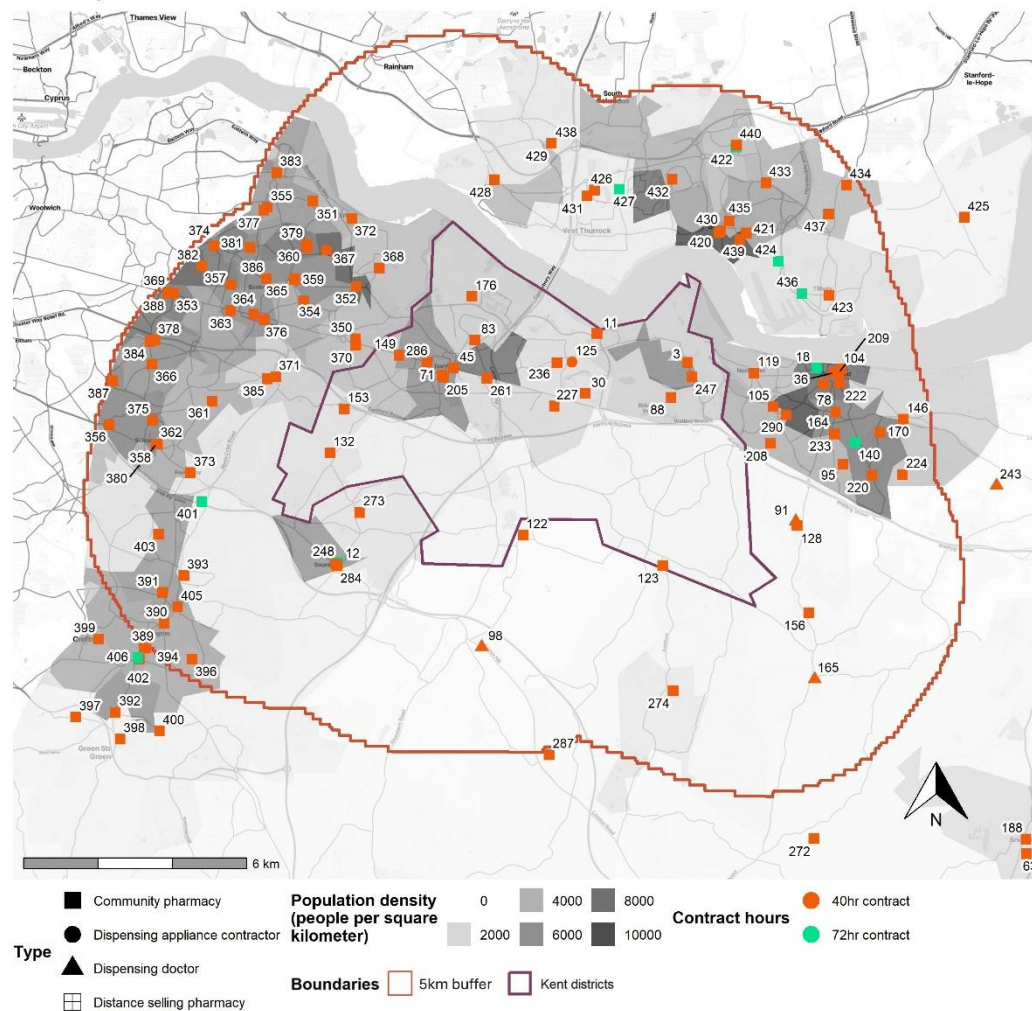


Figure 13: Dartford walking 20 minutes

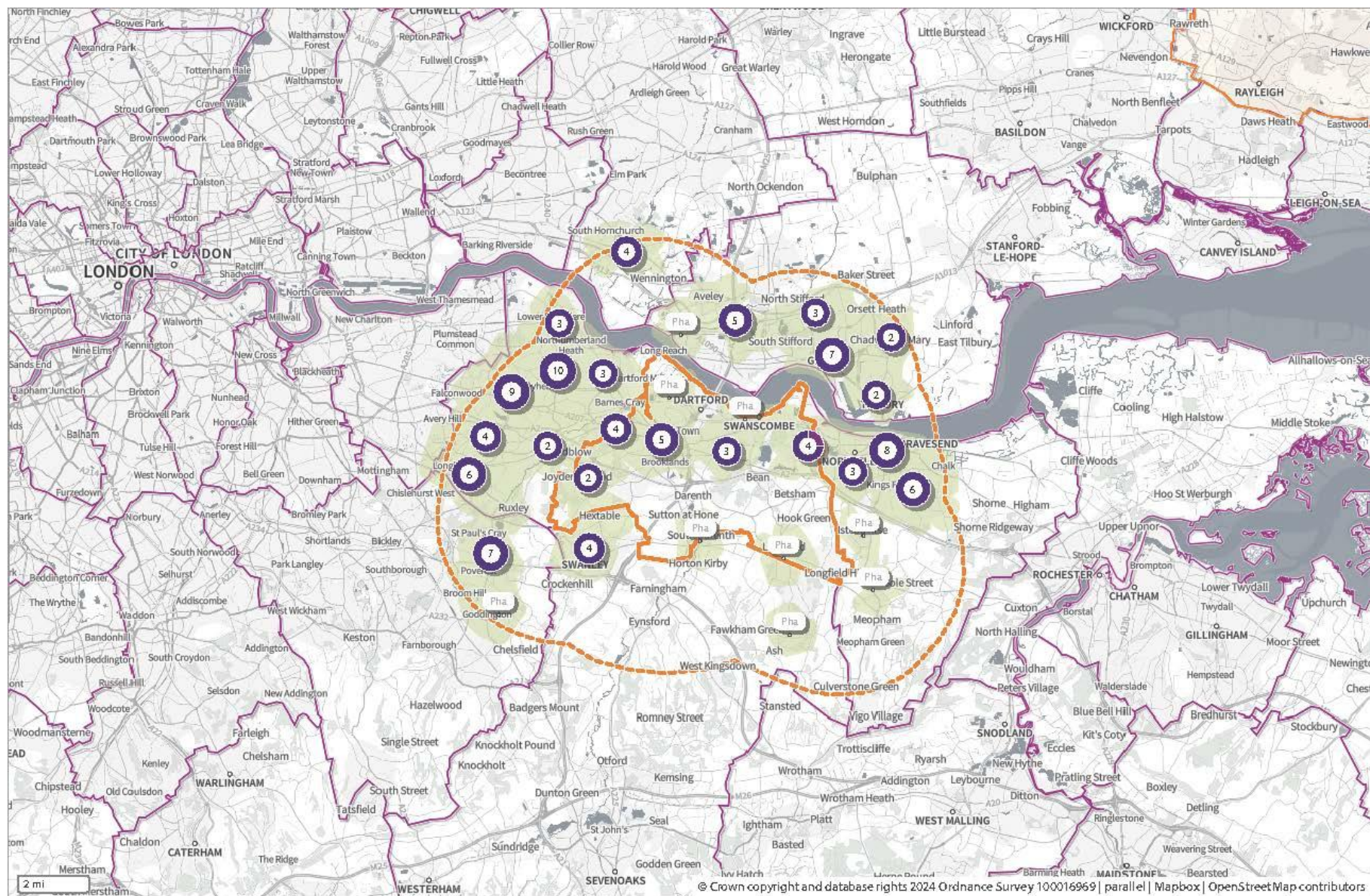


Figure 14: Dartford driving 20 minutes rush hour

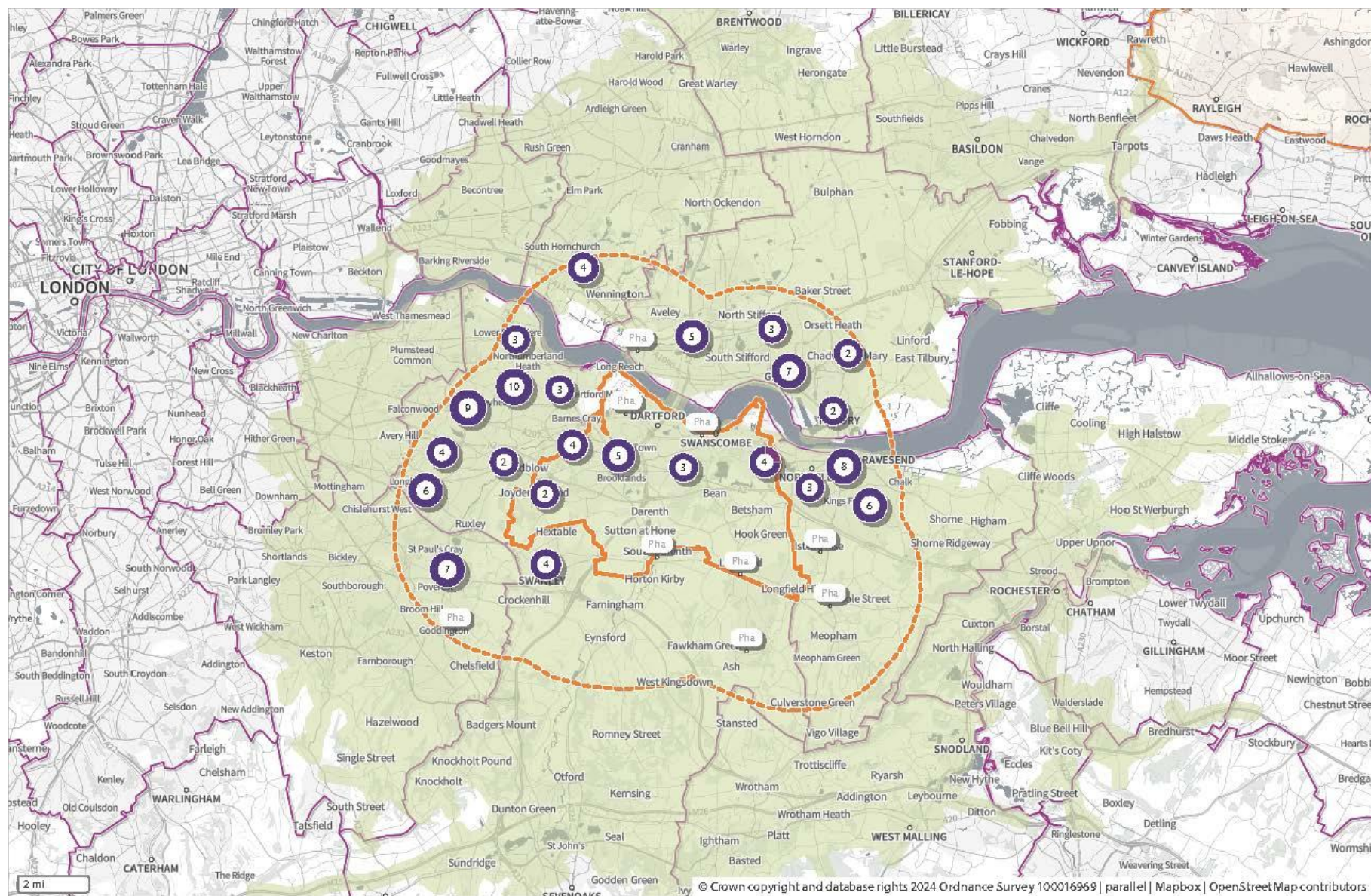
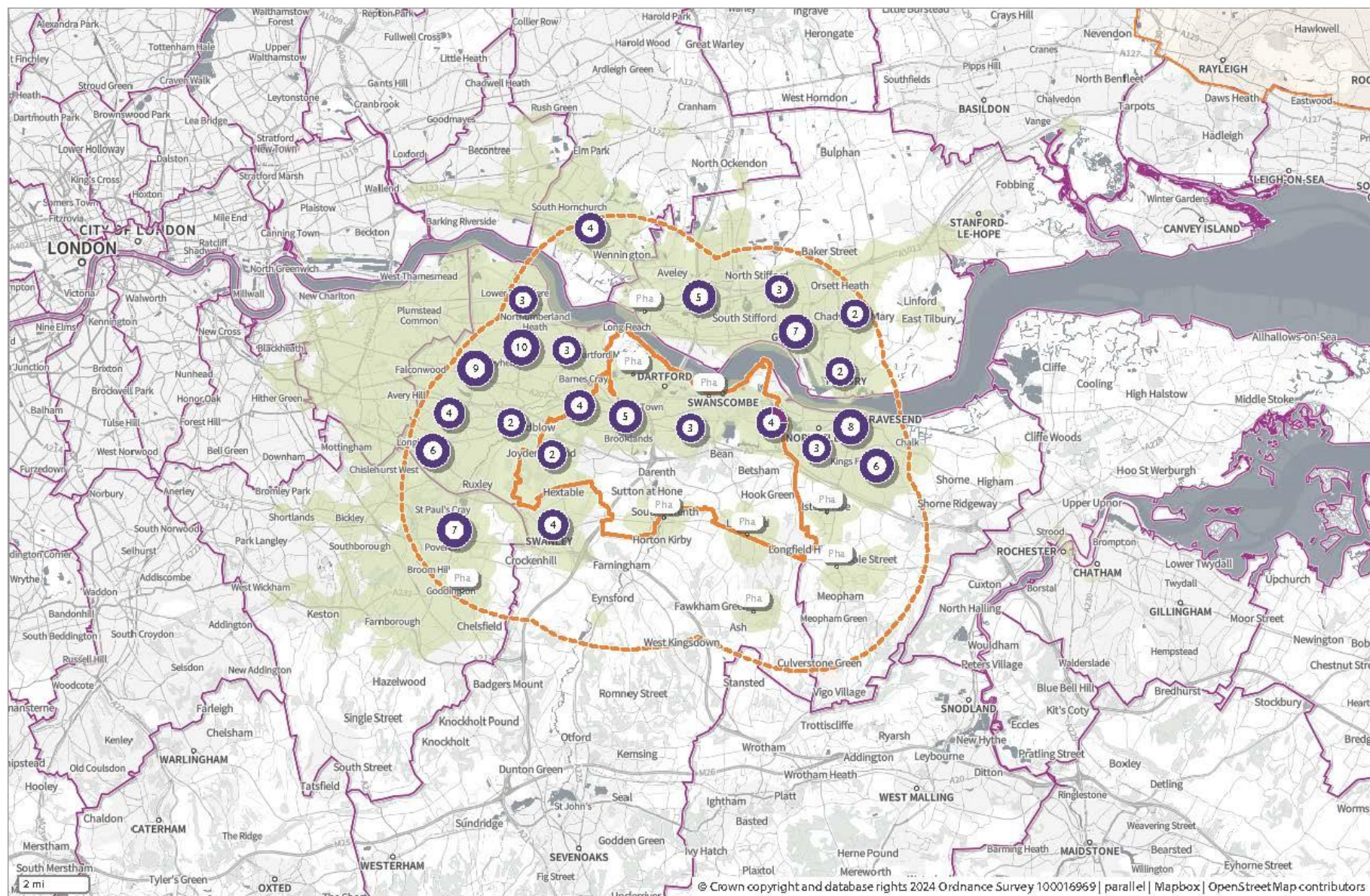


Figure 15: Dartford public transport 20 minutes weekend morning



Dover maps

Figure 16: Pharmacy sites, contract hours in Dover (with 5 km buffer)

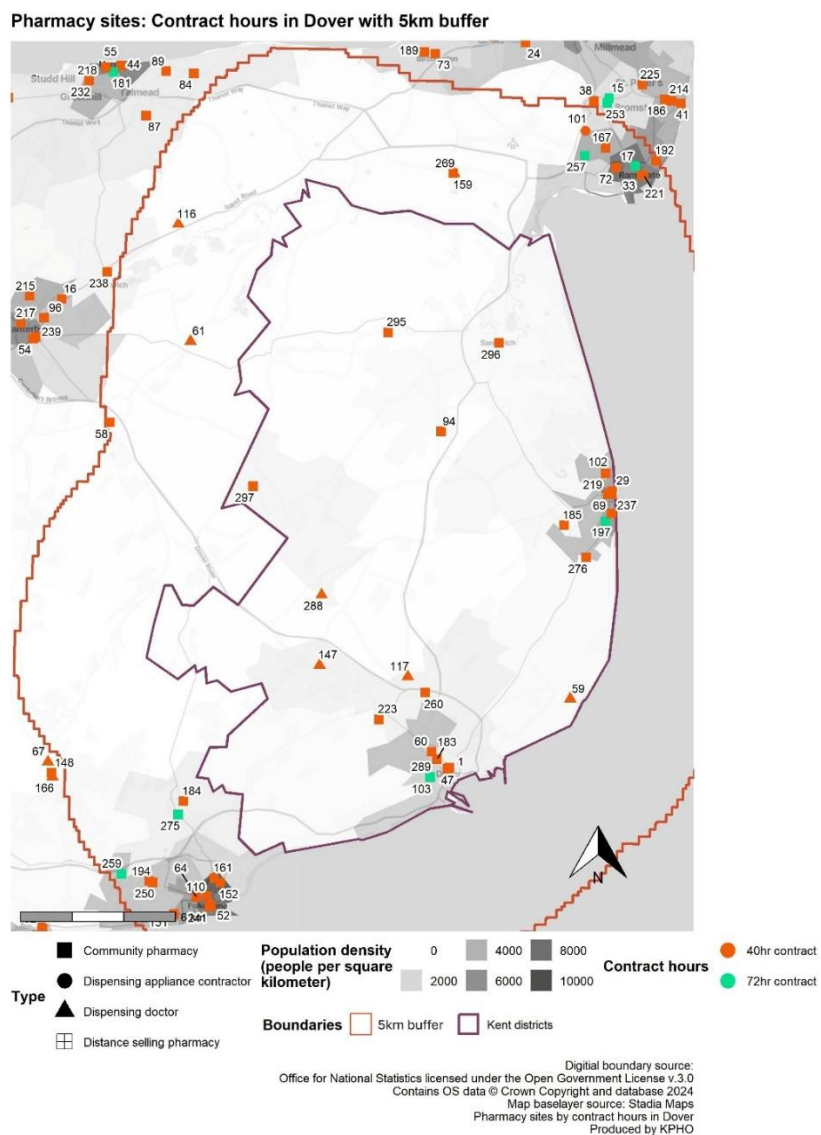


Figure 17: Dover walking 20 minutes

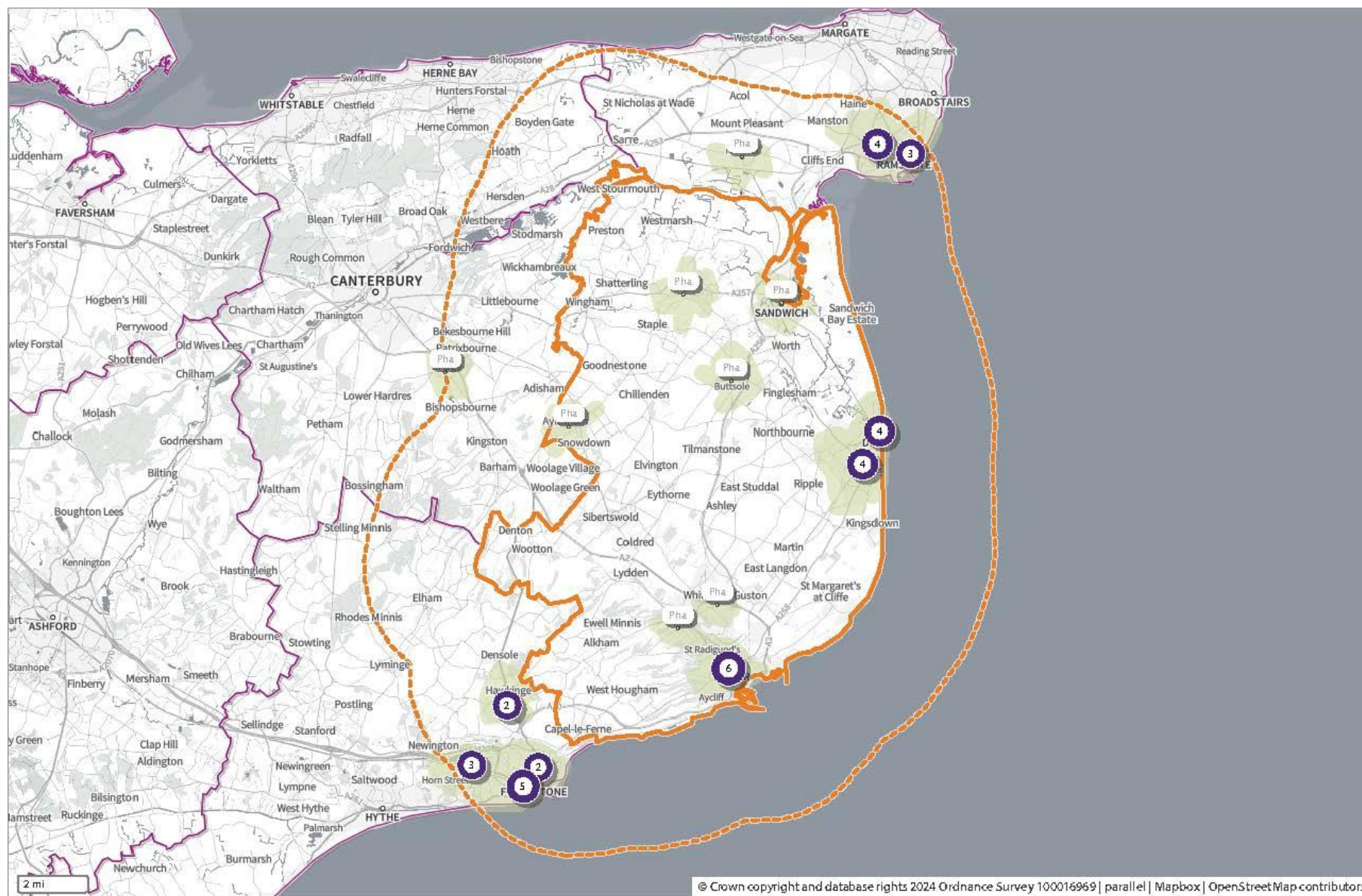


Figure 18: Dover driving 20 minutes rush hour

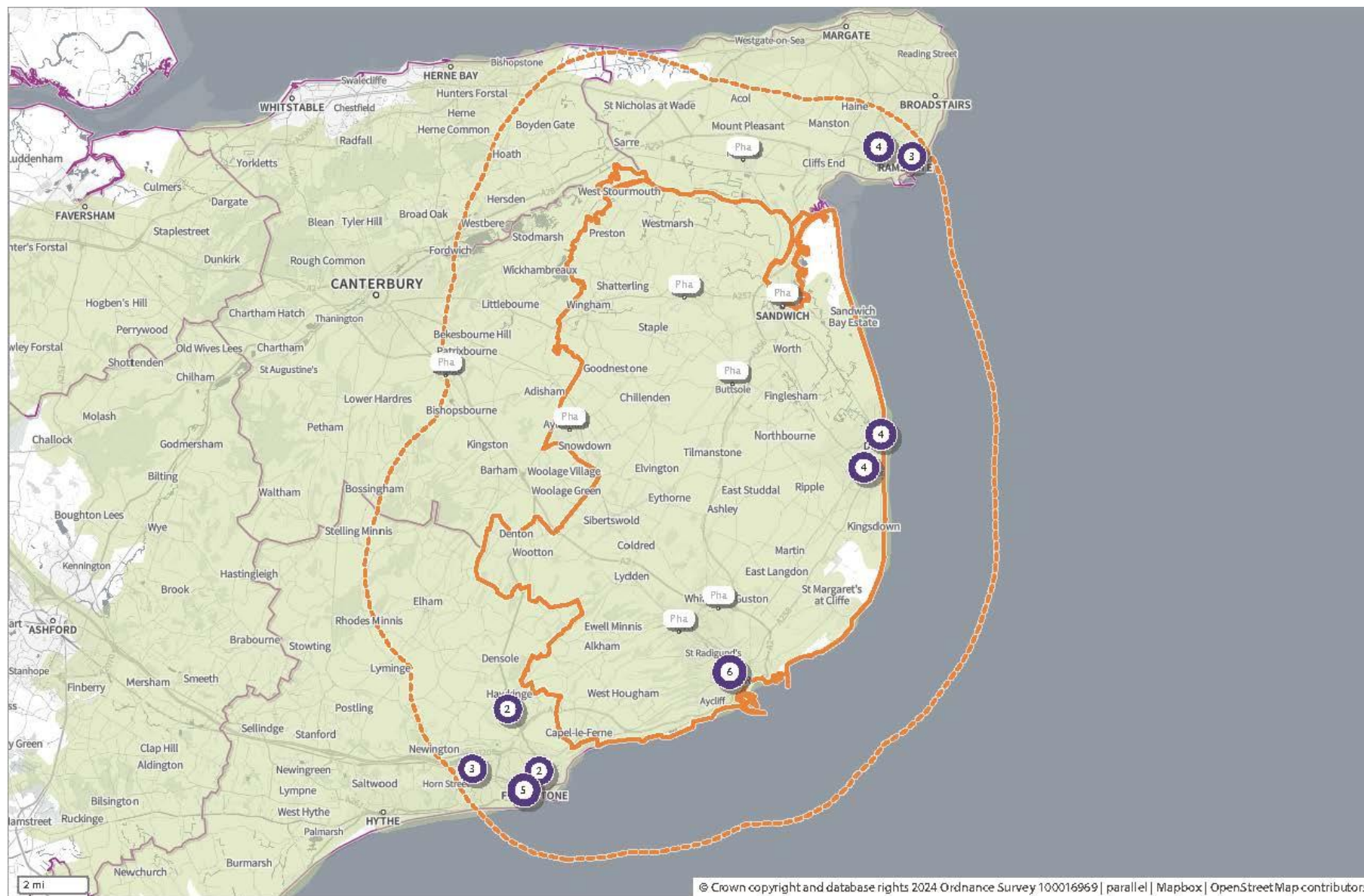
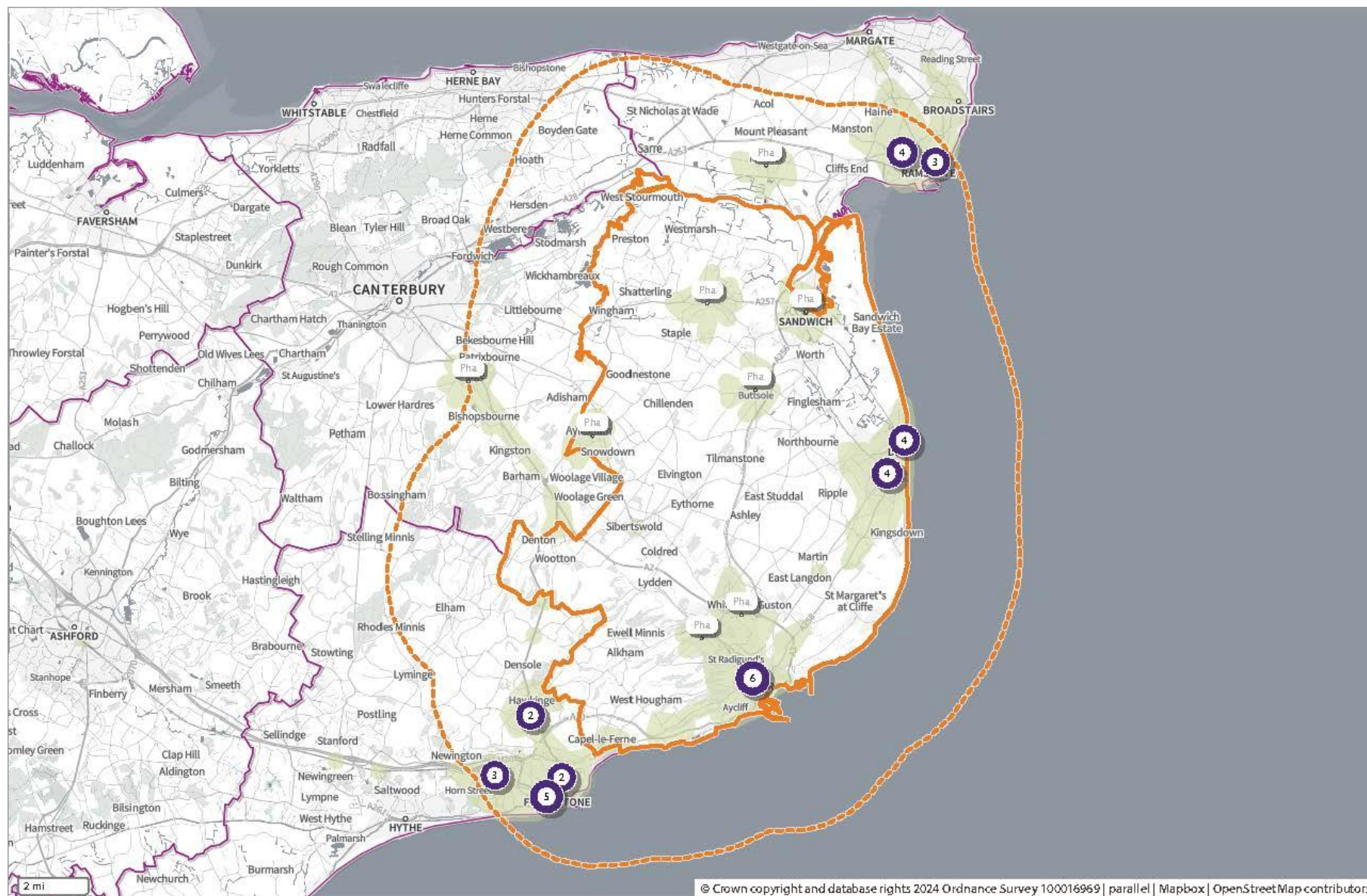
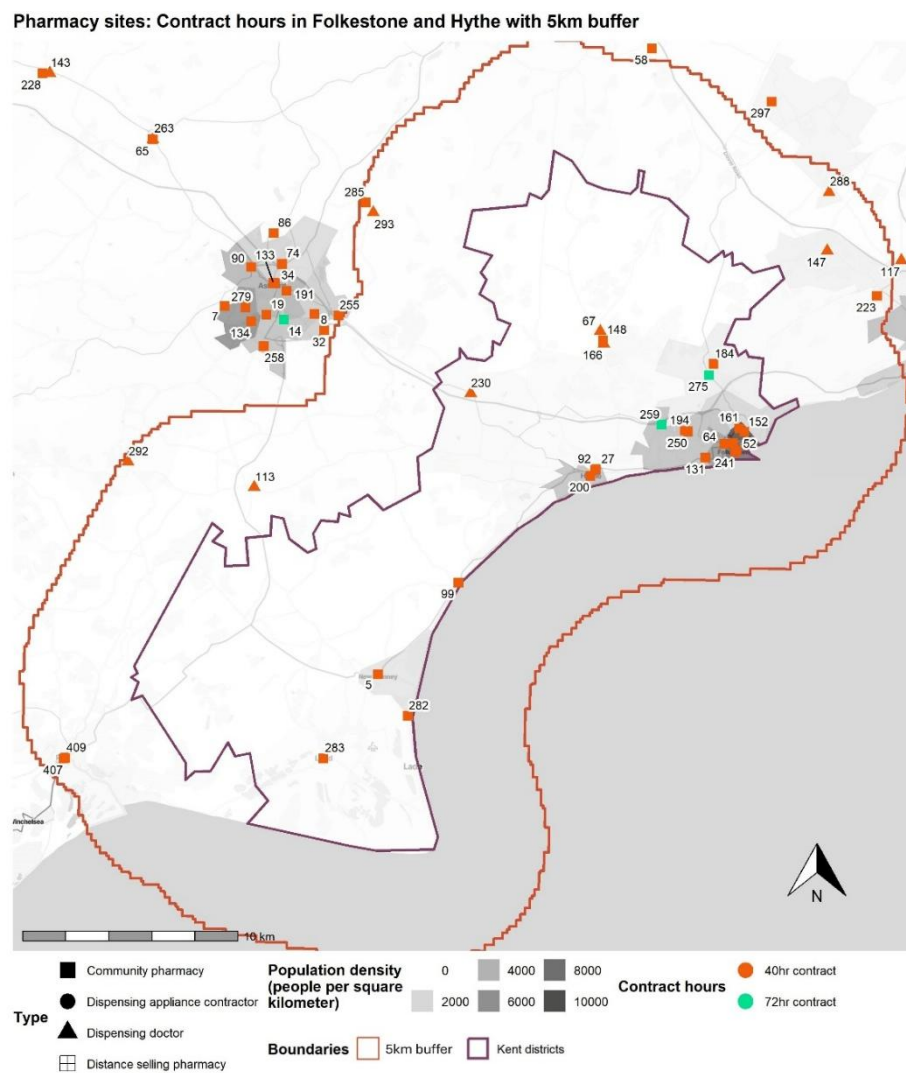


Figure 19: Dover public transport 20 minutes weekend morning



Folkestone and Hythe maps

Figure 20: Pharmacy sites, contract hours in Folkestone and Hythe (with 5 km buffer)



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Map base layer source: Stadia Maps
Pharmacy sites by contract hours in Folkestone and Hythe
Produced by KPHO

Figure 21: Folkestone and Hythe walking 20 minutes

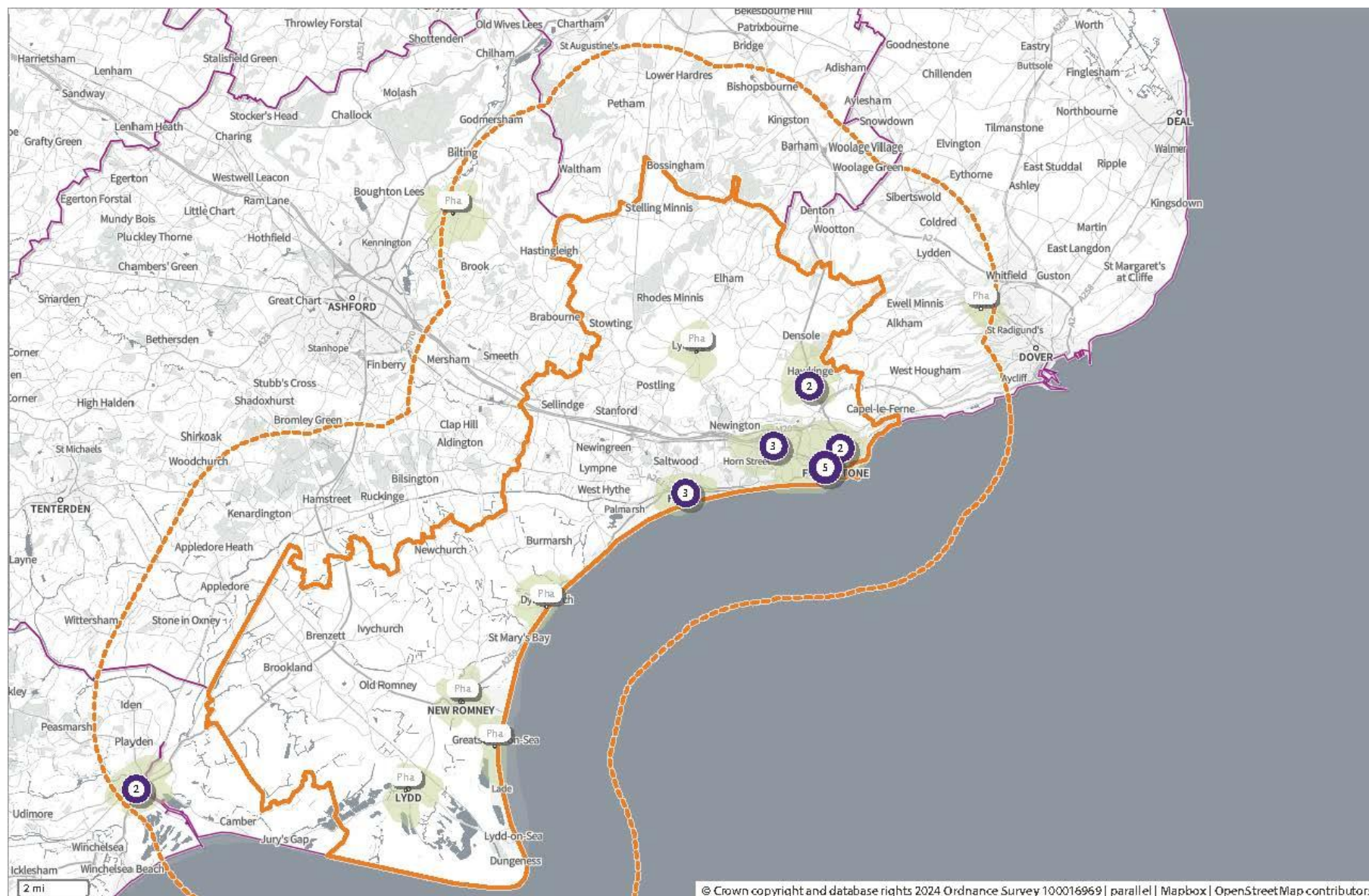


Figure 22: Folkestone and Hythe driving 20 minutes rush hour

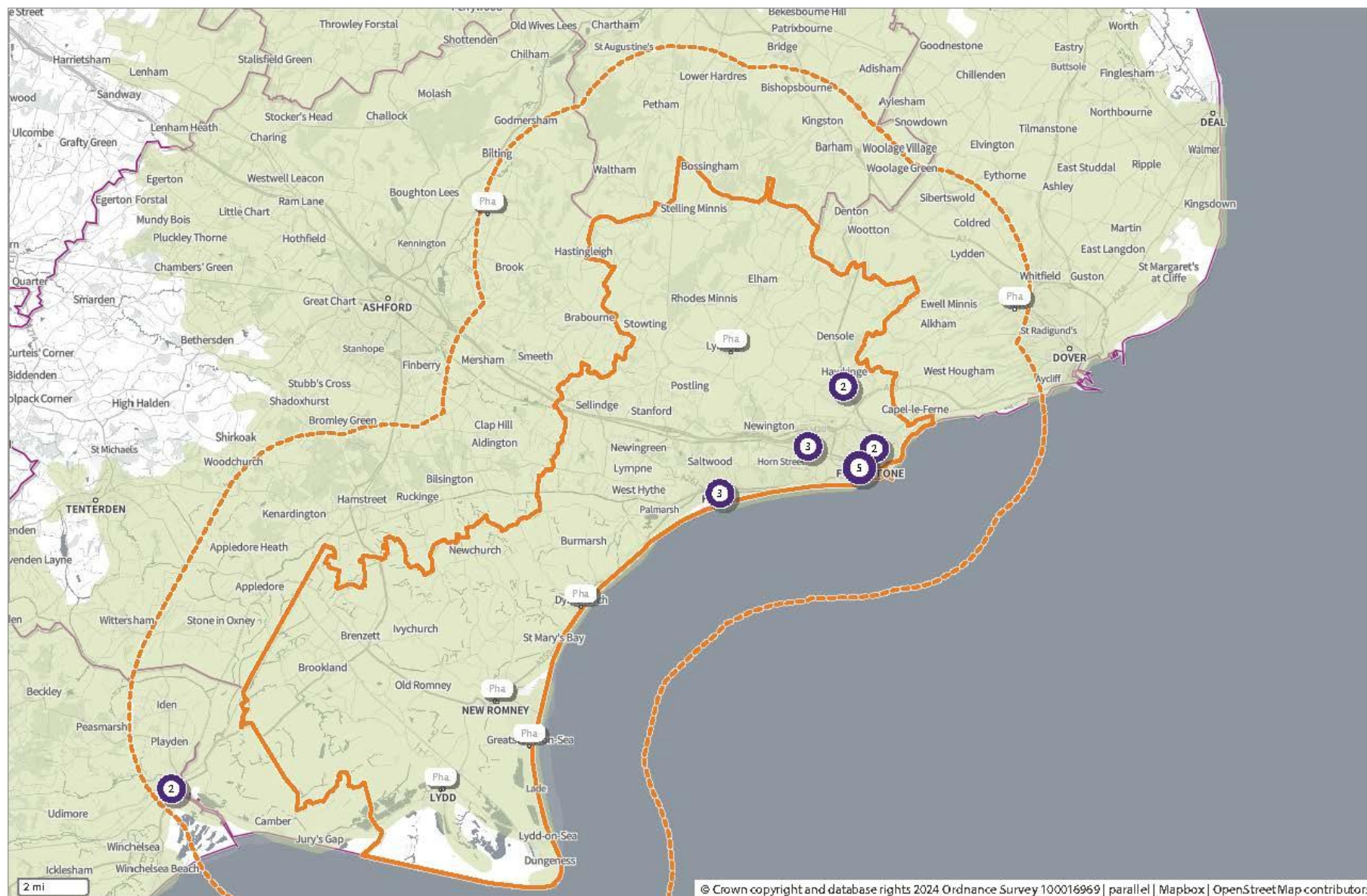
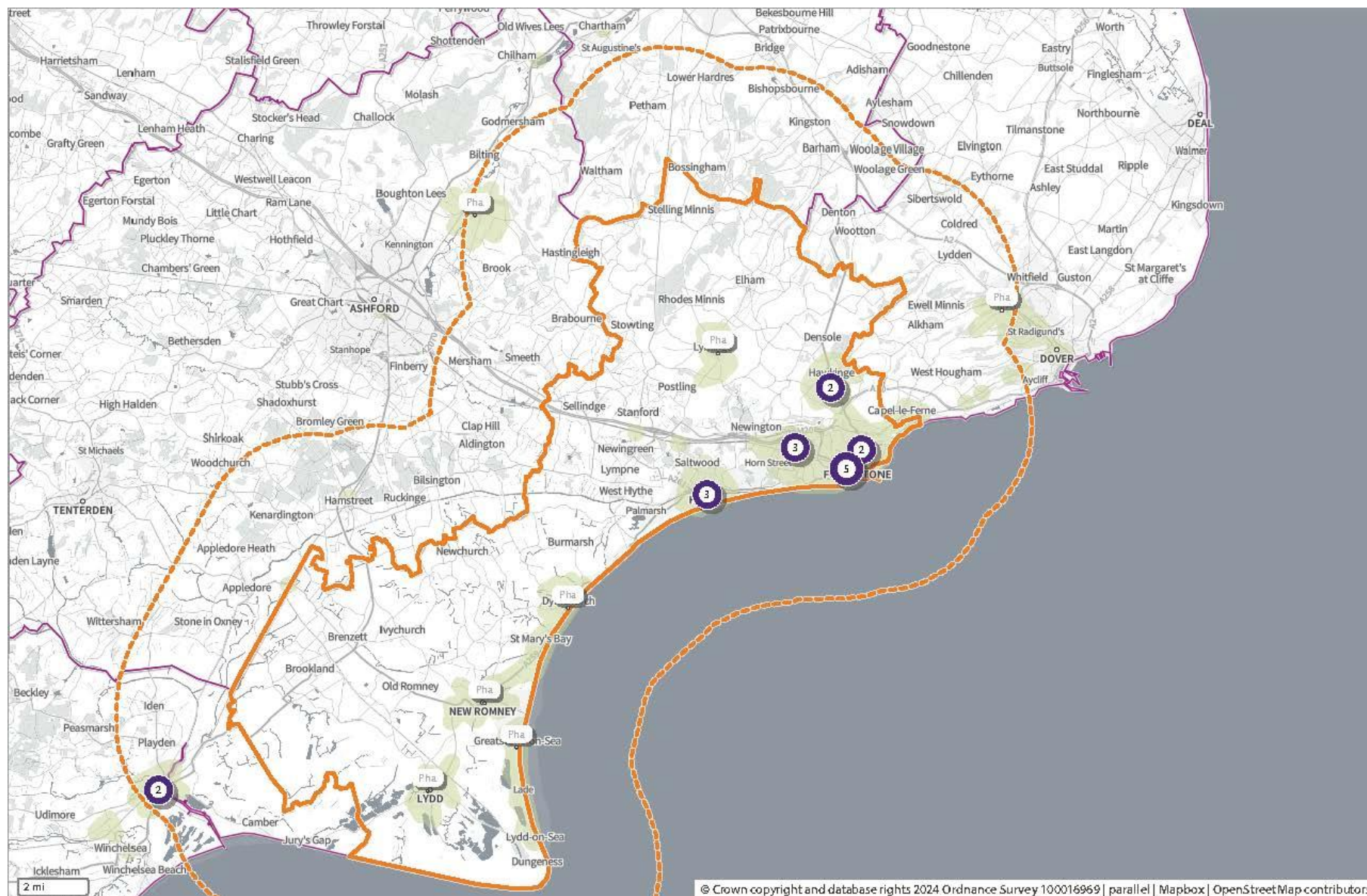


Figure 23: Folkestone and Hythe public transport 20 minutes weekend morning



Gravesham maps

Figure 24: Pharmacy sites, contract hours in Gravesham (with 5 km buffer)

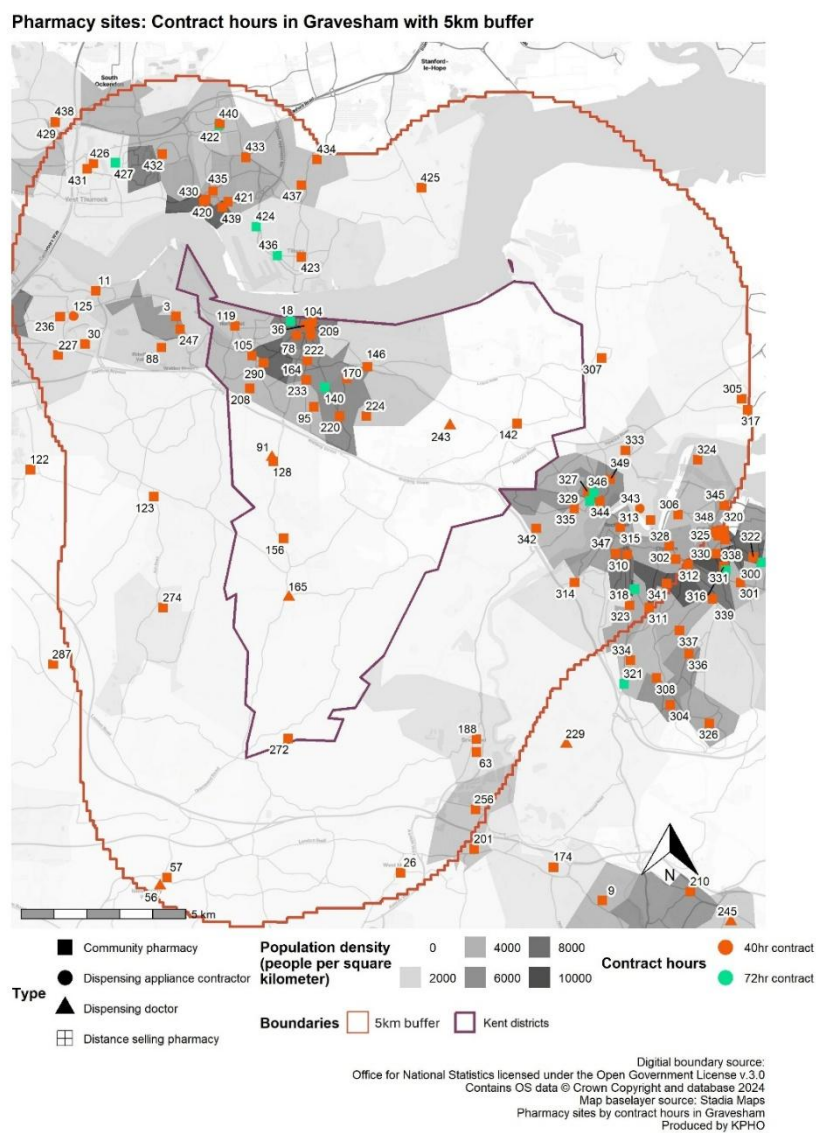


Figure 25: Gravesham walking 20 minutes

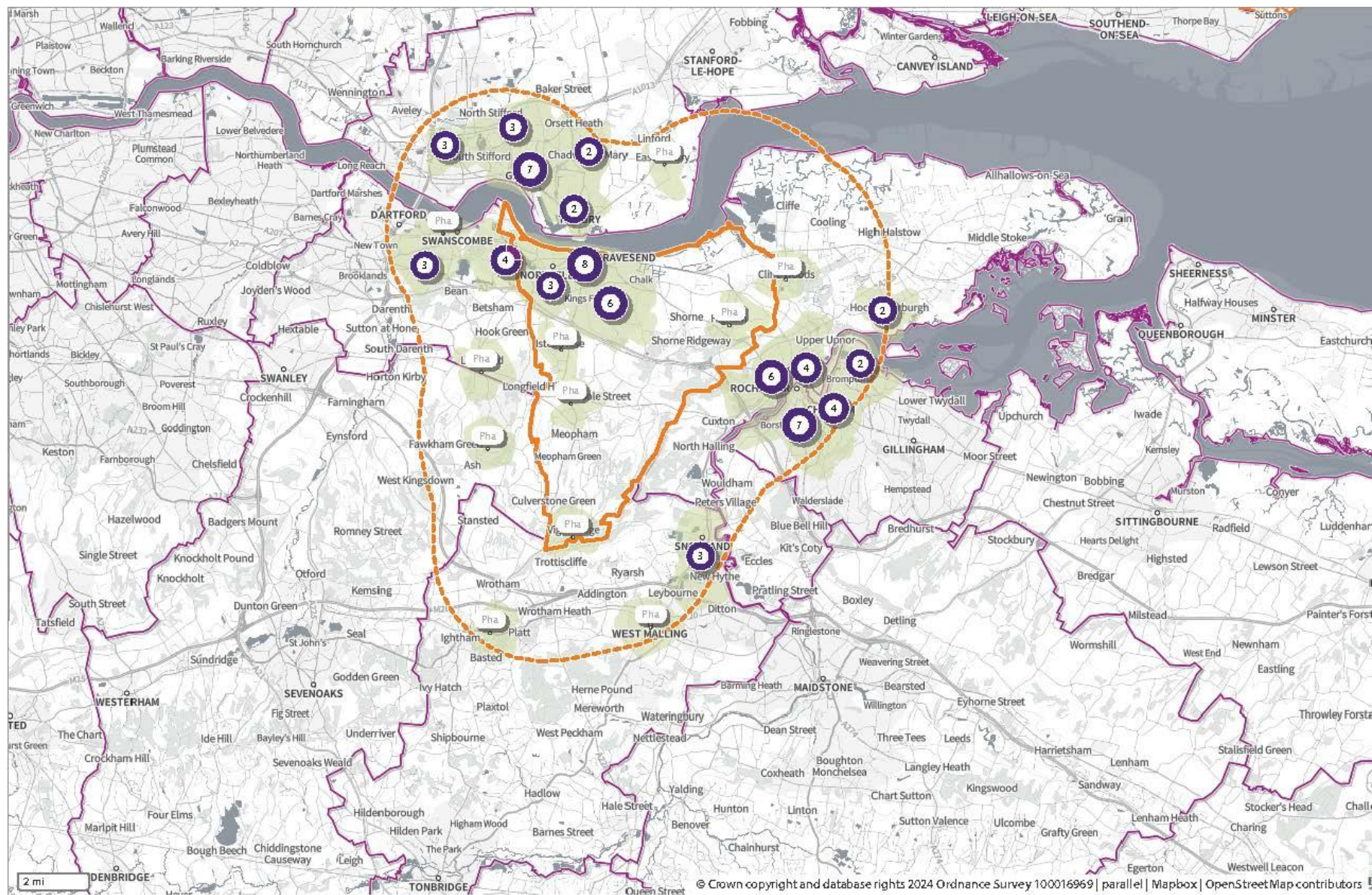


Figure 26: Gravesend driving 20 minutes rush hour

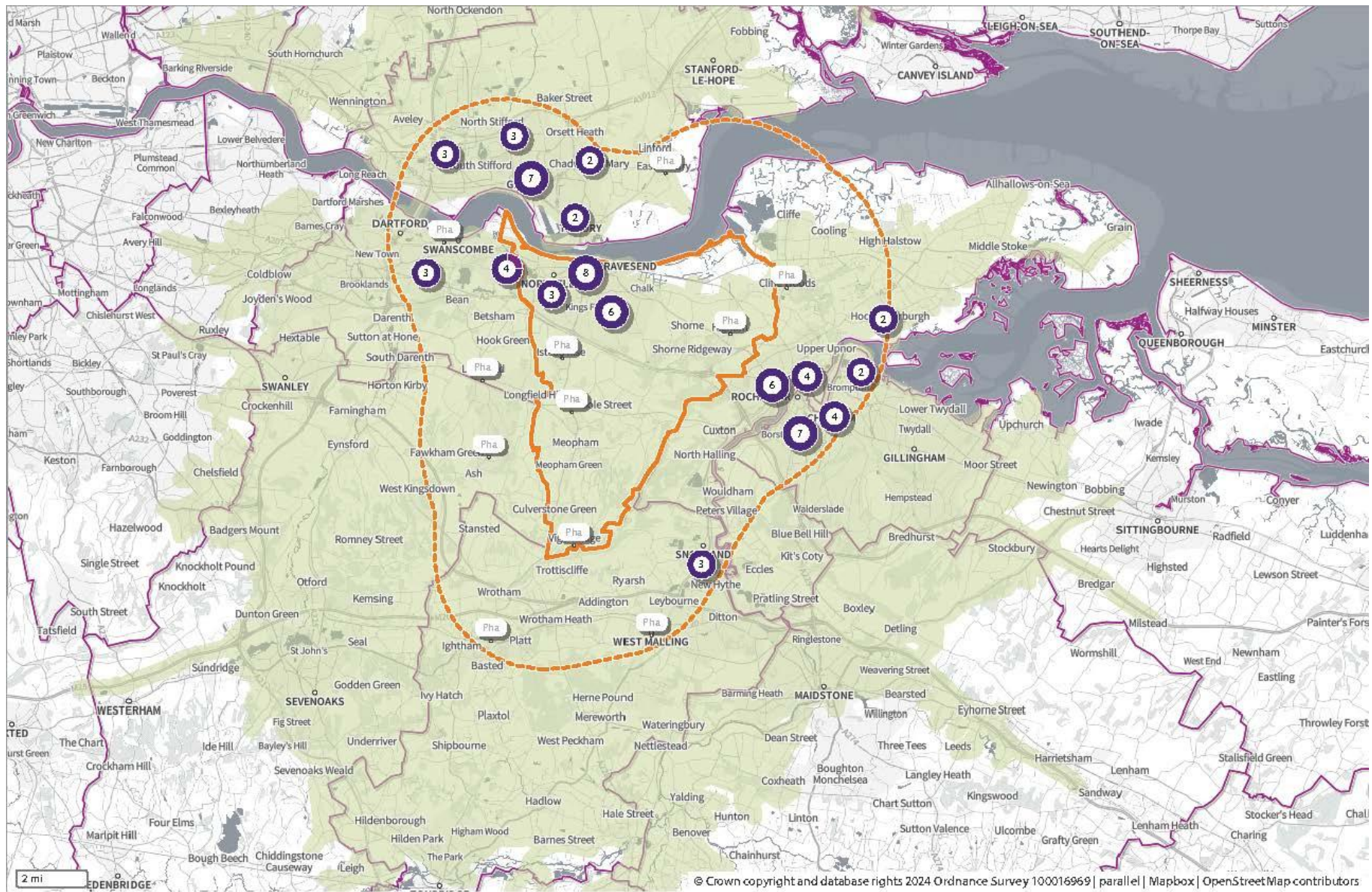
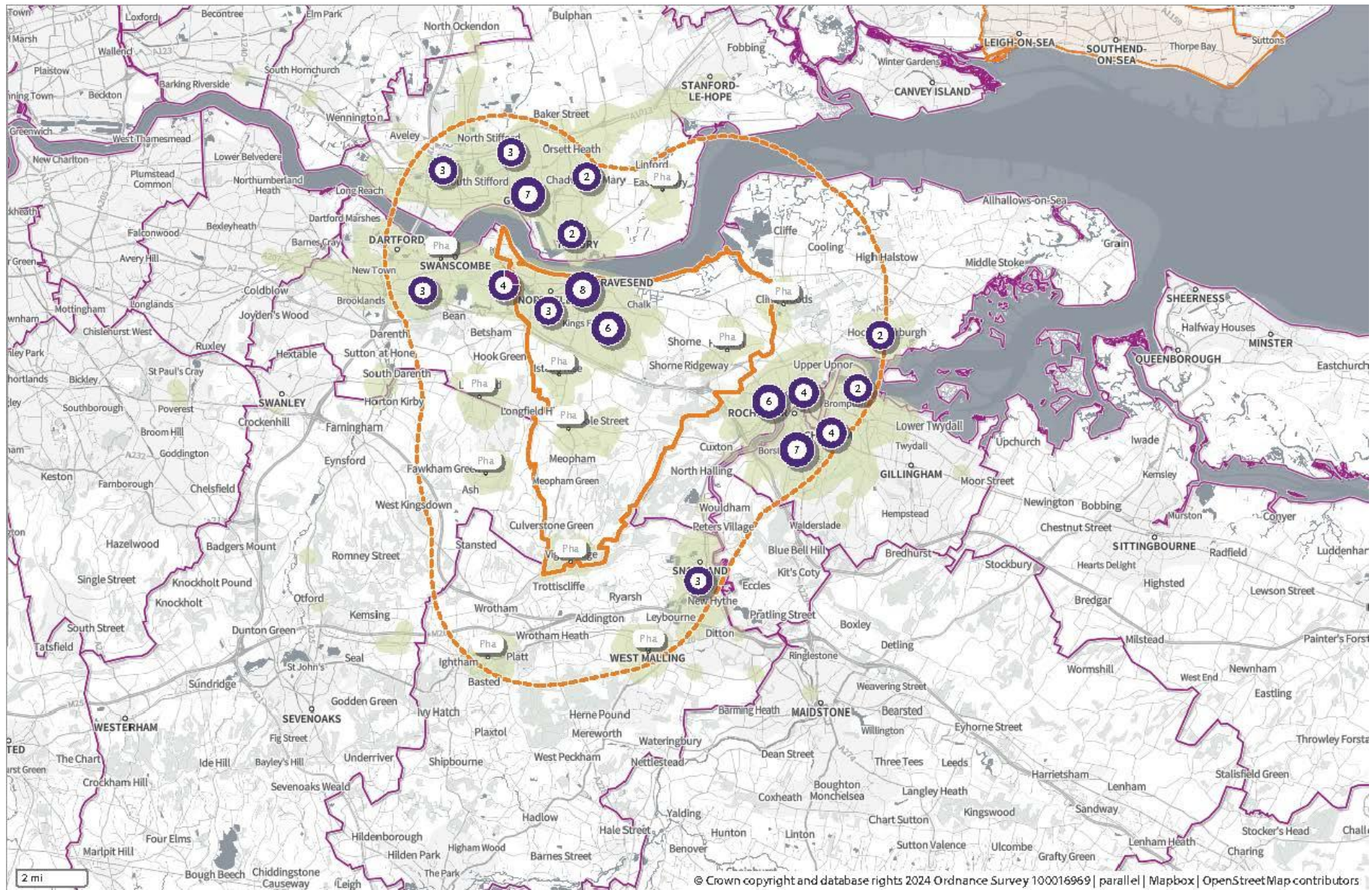
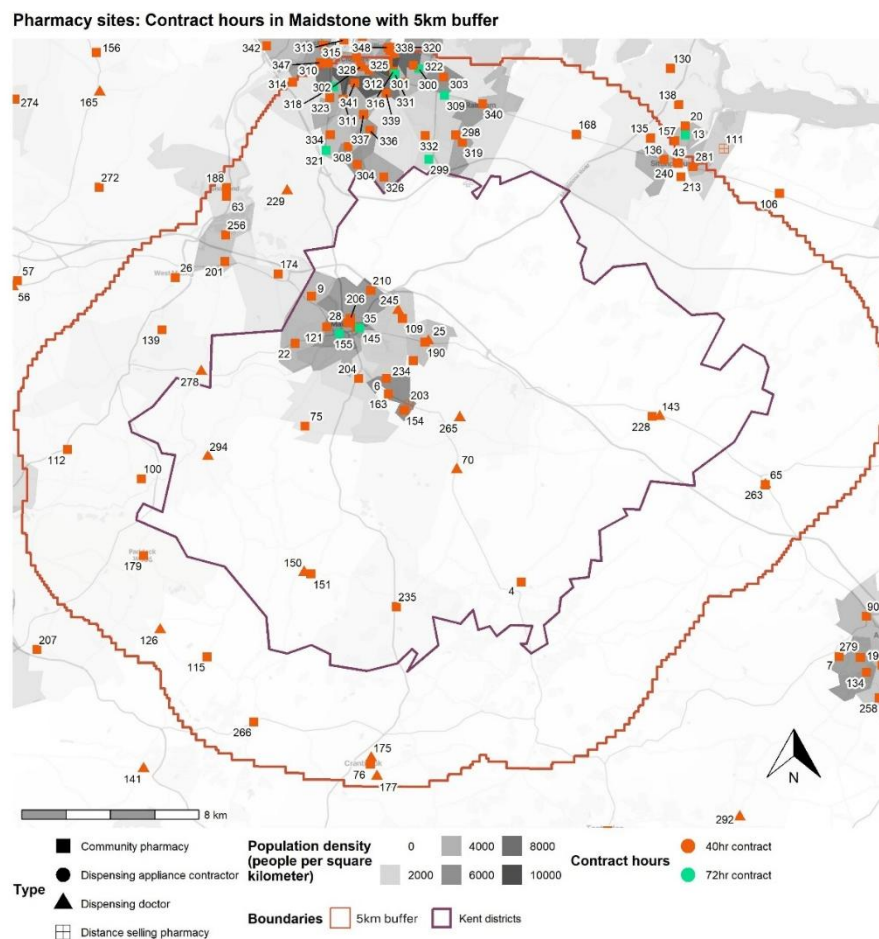


Figure 27: Gravesend public transport 20 minutes weekend morning



Maidstone maps

Figure 28: Pharmacy sites, contract hours in Maidstone (with 5 km buffer)



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Map baselayer source: Stadia Maps
Pharmacy sites by contract hours in Maidstone
Produced by KPHO

Figure 29: Maidstone walking 20 minutes

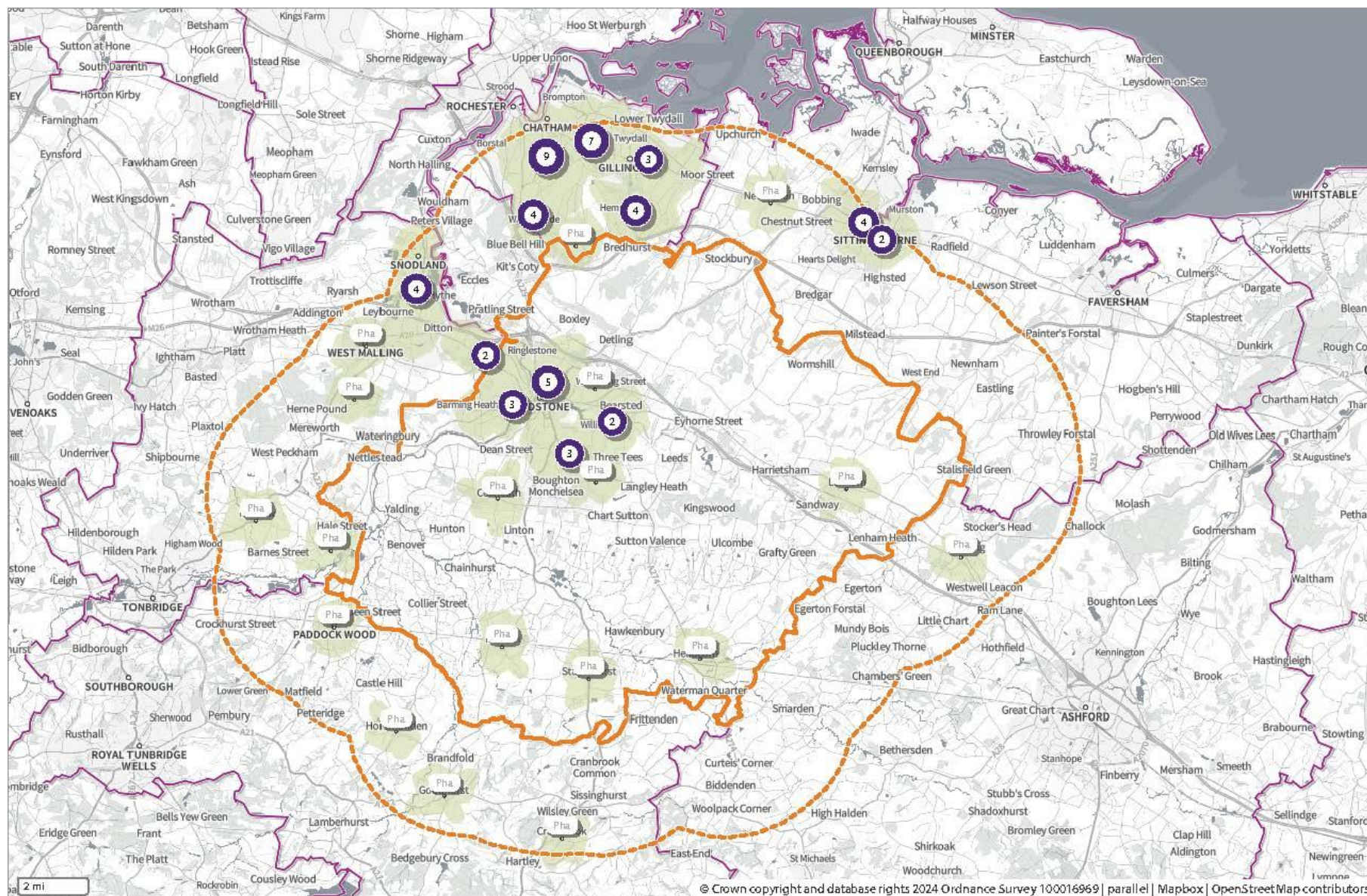


Figure 30: Maidstone driving 20 minutes rush hour

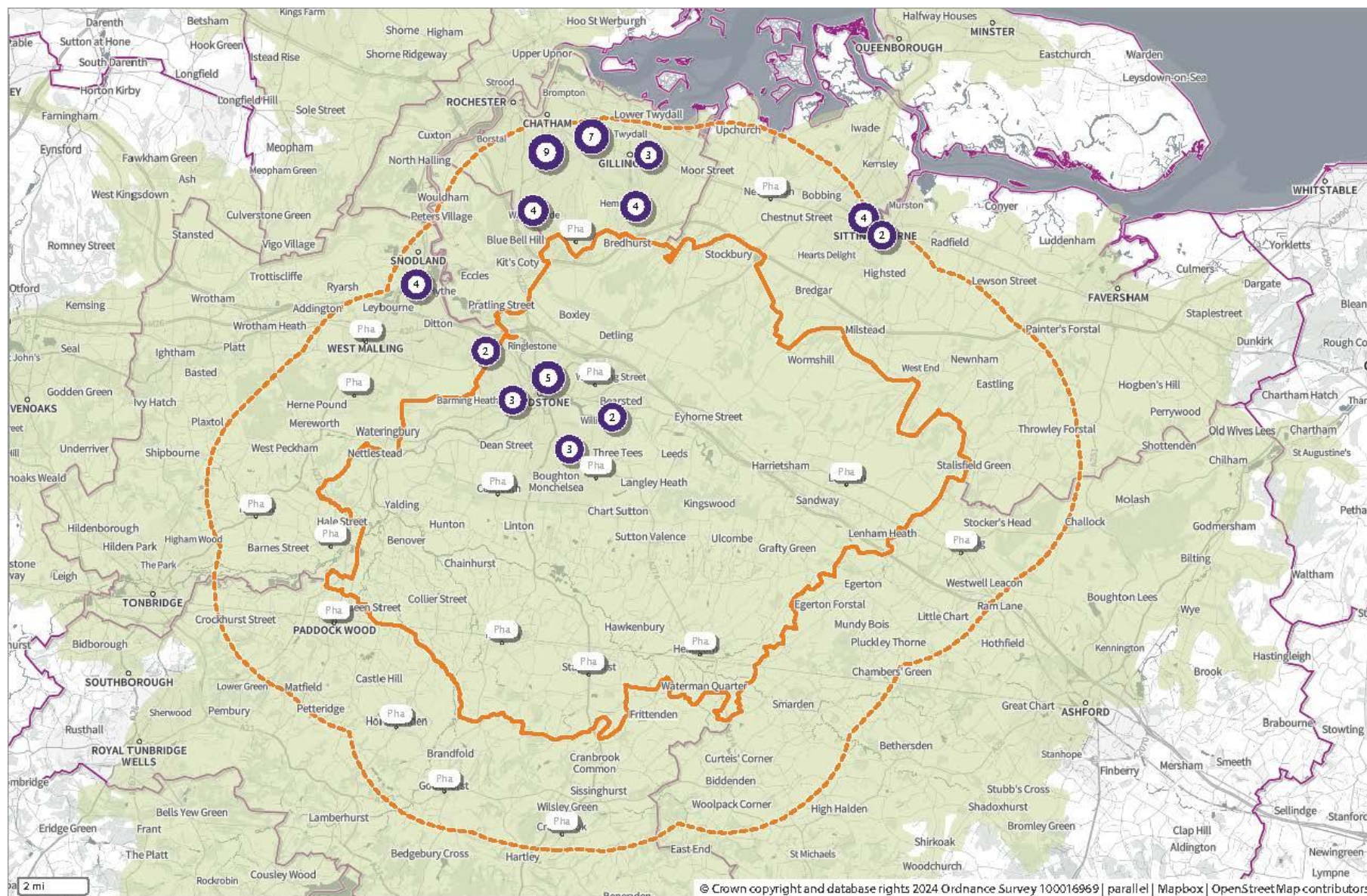
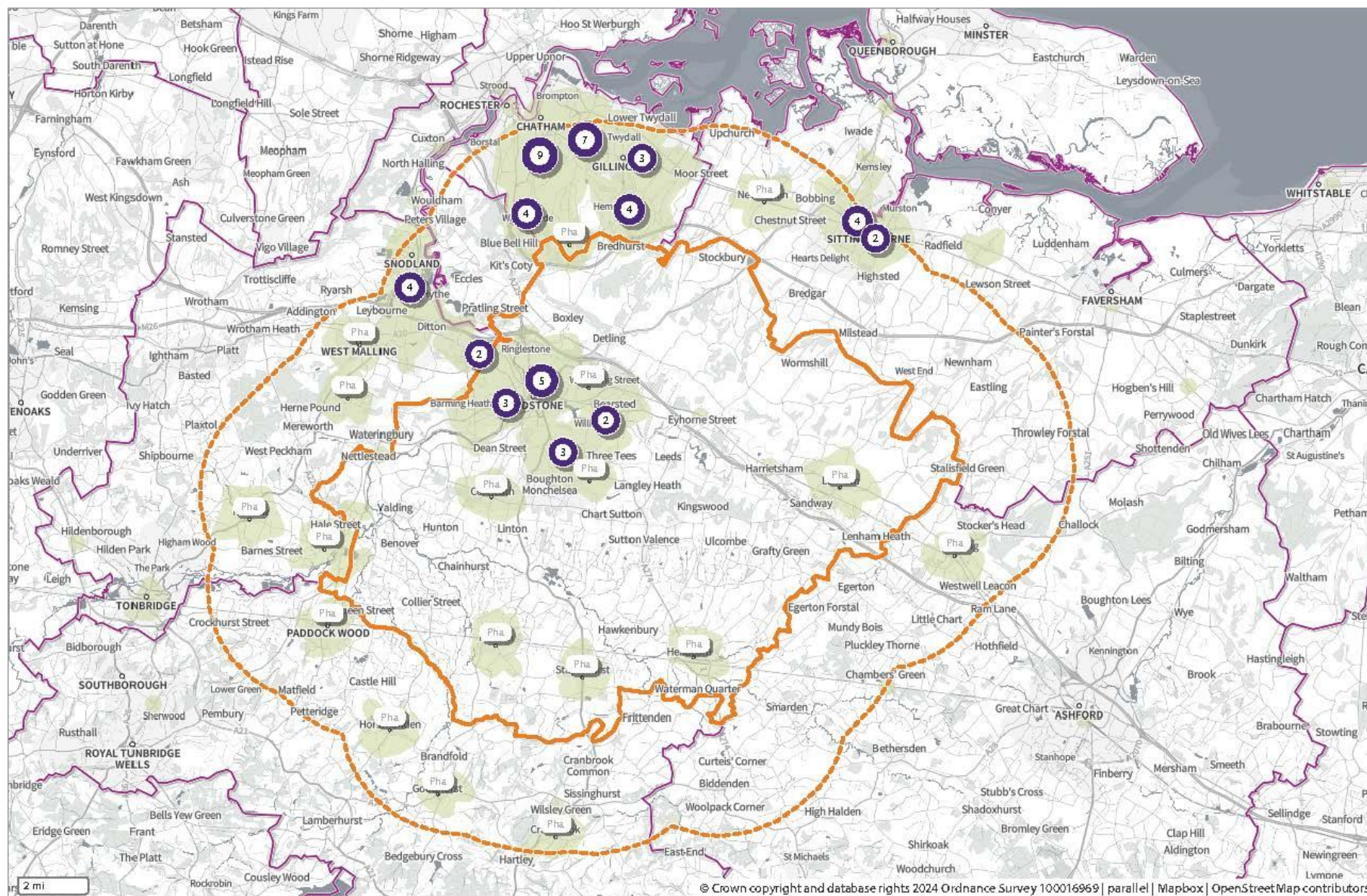


Figure 31: Maidstone public transport 20 minutes weekend morning



Sevenoaks maps

Figure 32: Pharmacy sites, contract hours in Sevenoaks (with 5 km buffer)

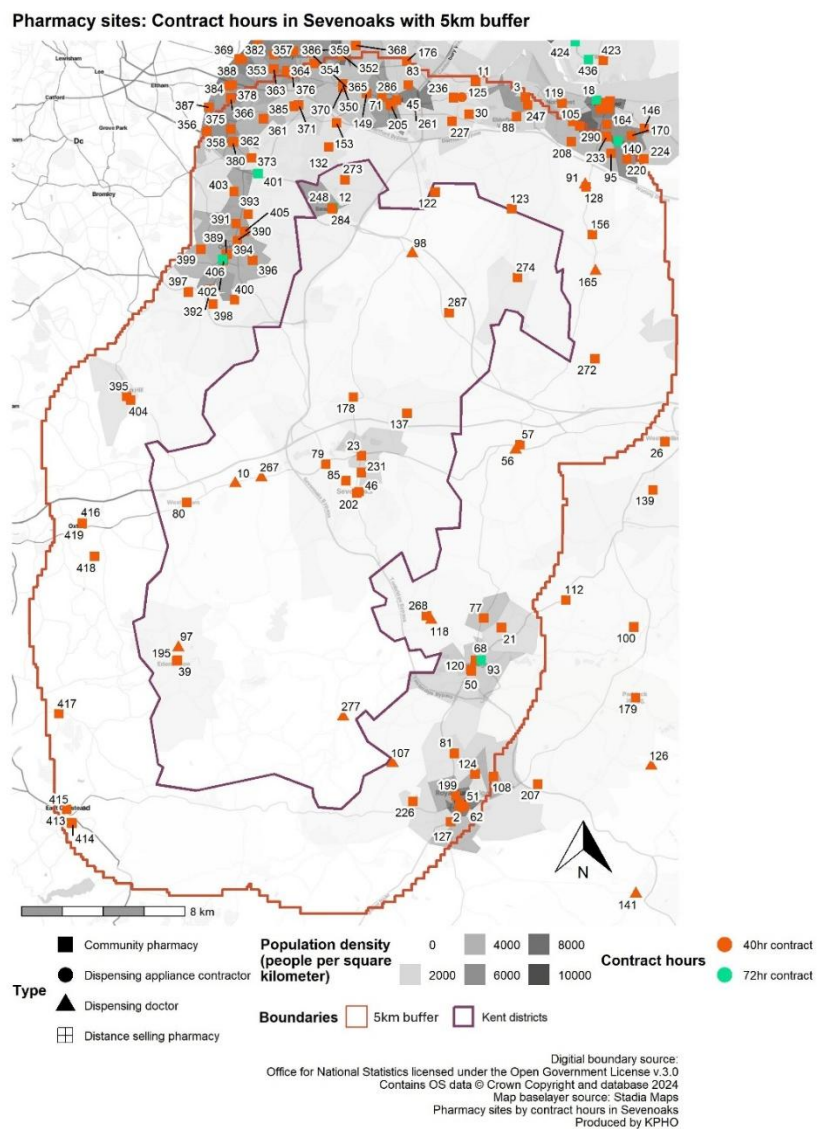


Figure 33: Sevenoaks walking 20 minutes

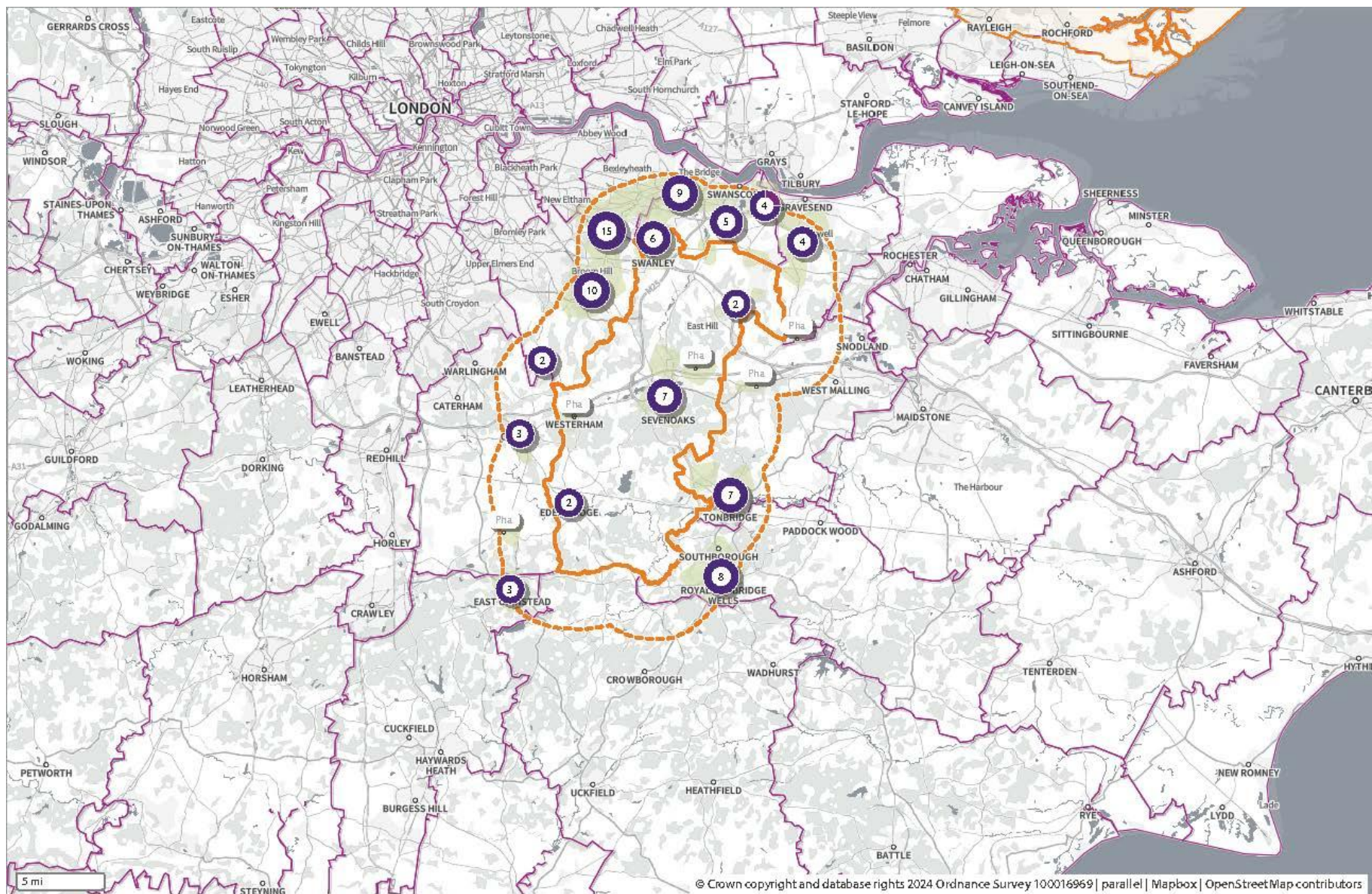


Figure 34: Sevenoaks driving 20 minutes rush hour

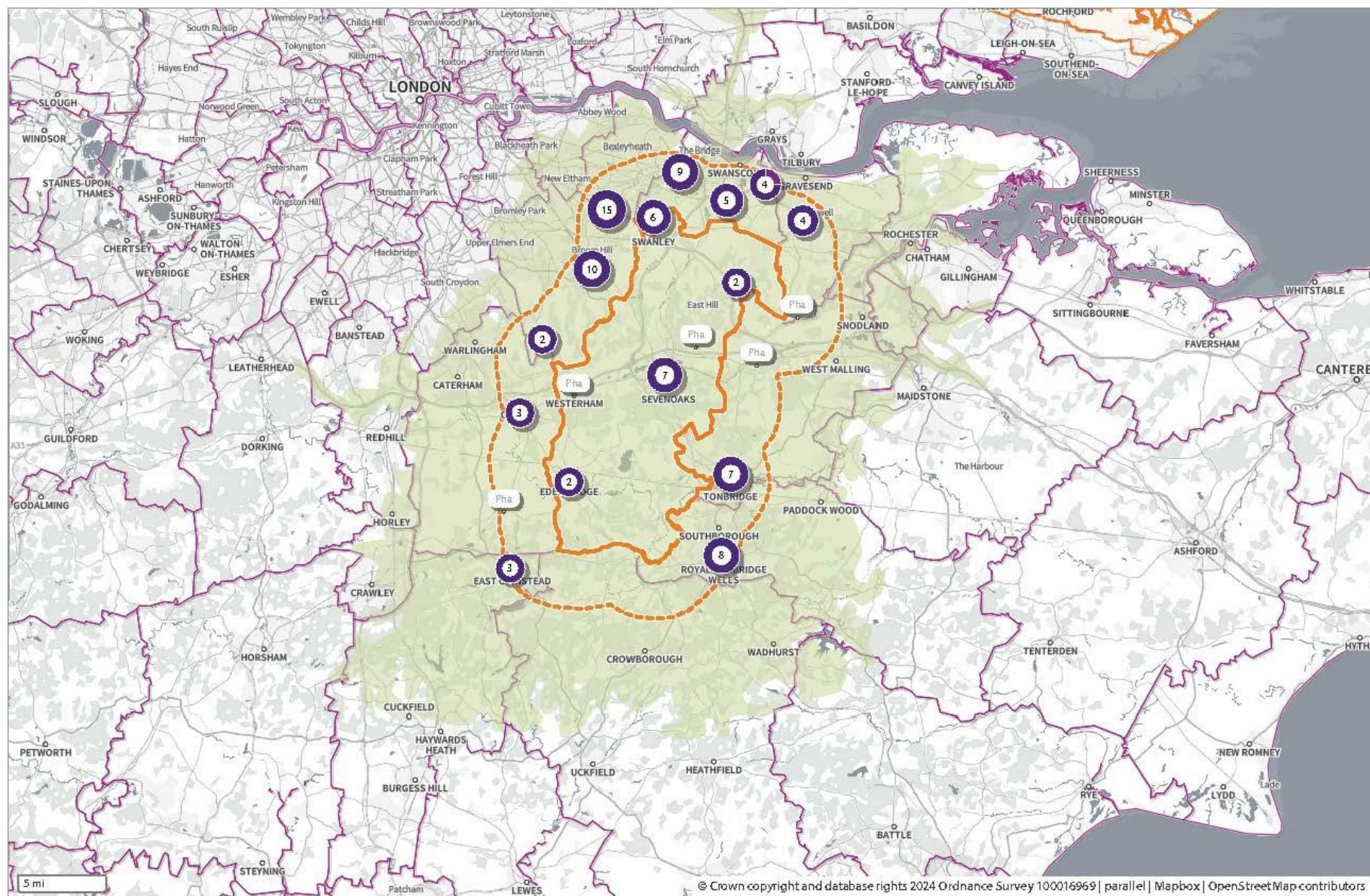
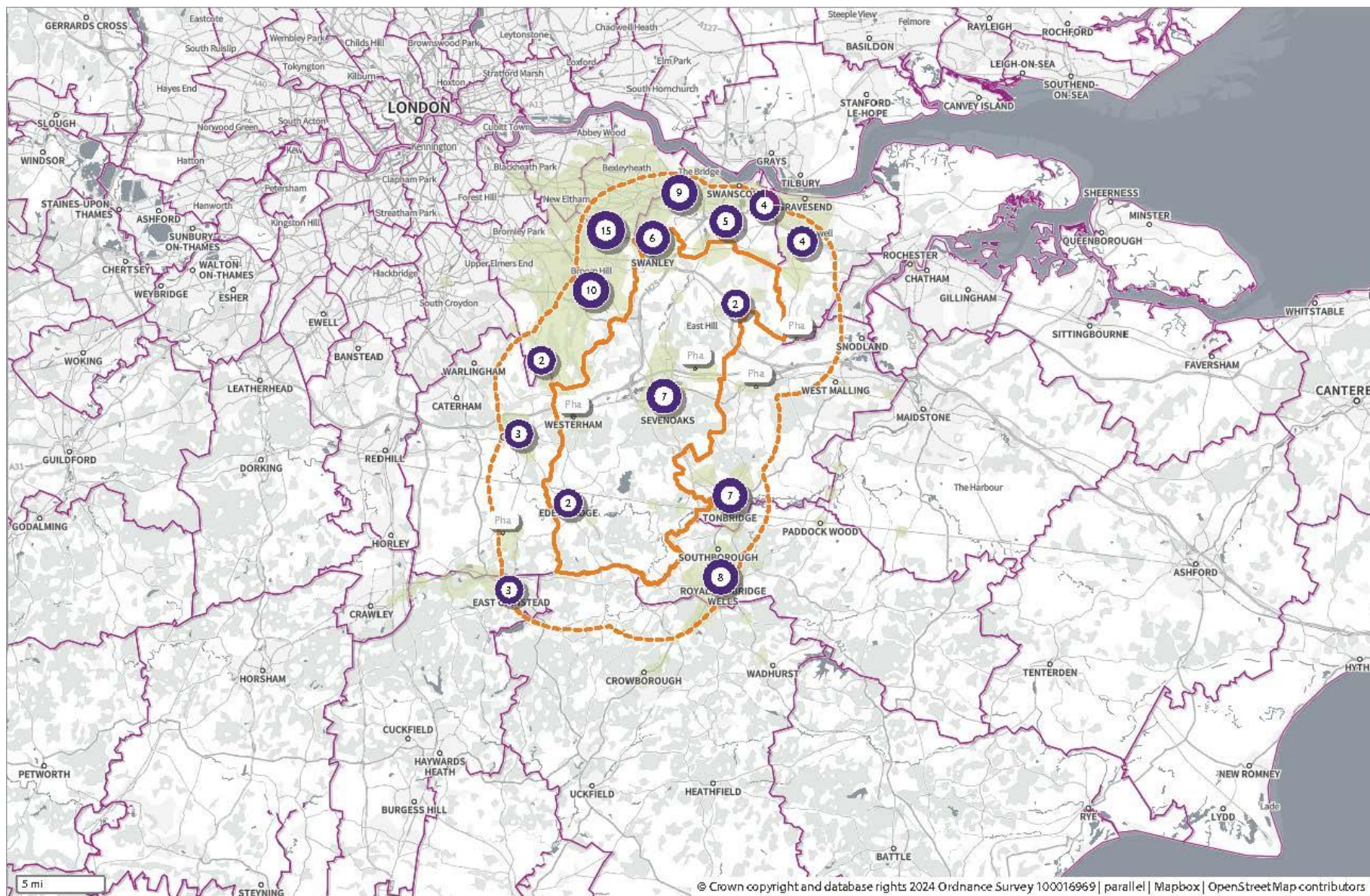


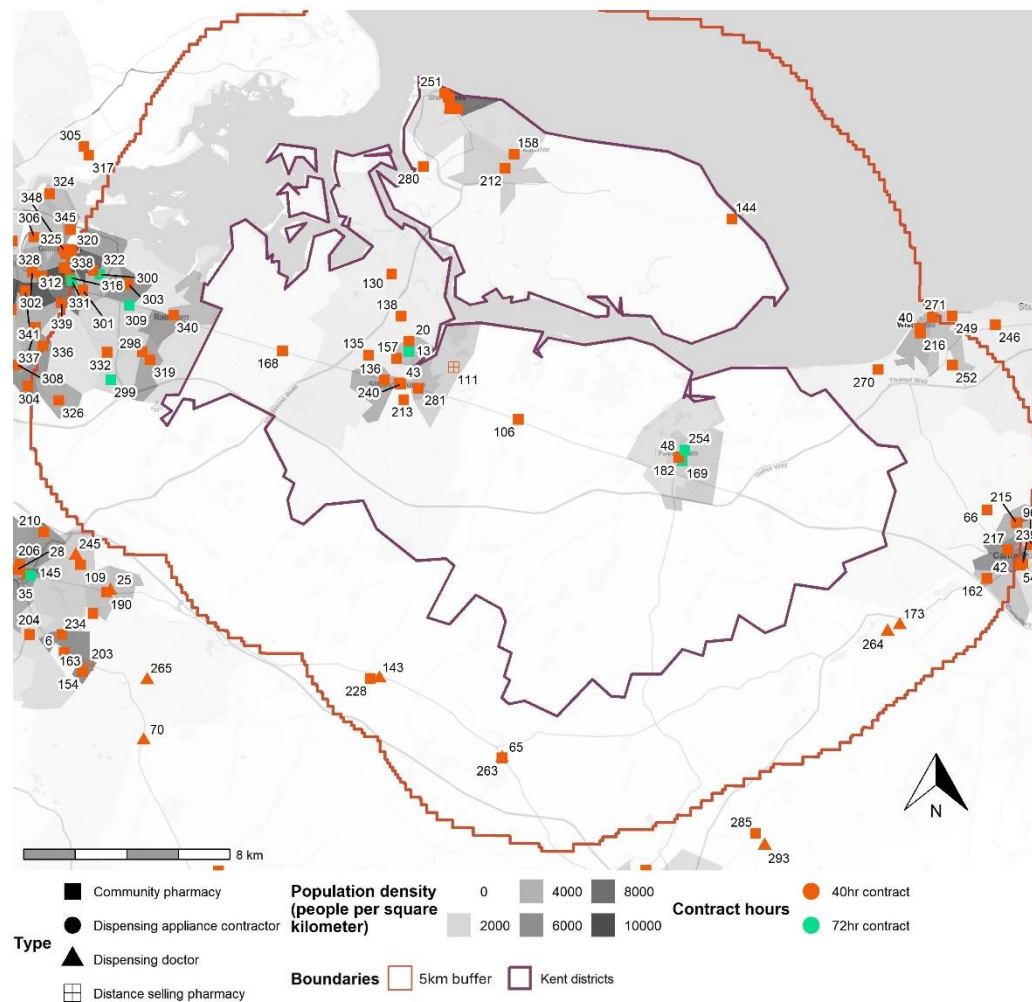
Figure 35: Sevenoaks public transport 20 minutes weekend morning



Swale maps

Figure 36: Pharmacy sites, contract hours in Swale (with 5 km buffer)

Pharmacy sites: Contract hours in Swale with 5km buffer



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Map baselayer source: Stadia Maps
Pharmacy sites by contract hours in Swale
Produced by KPHO

Figure 37: Swale walking 20 minutes

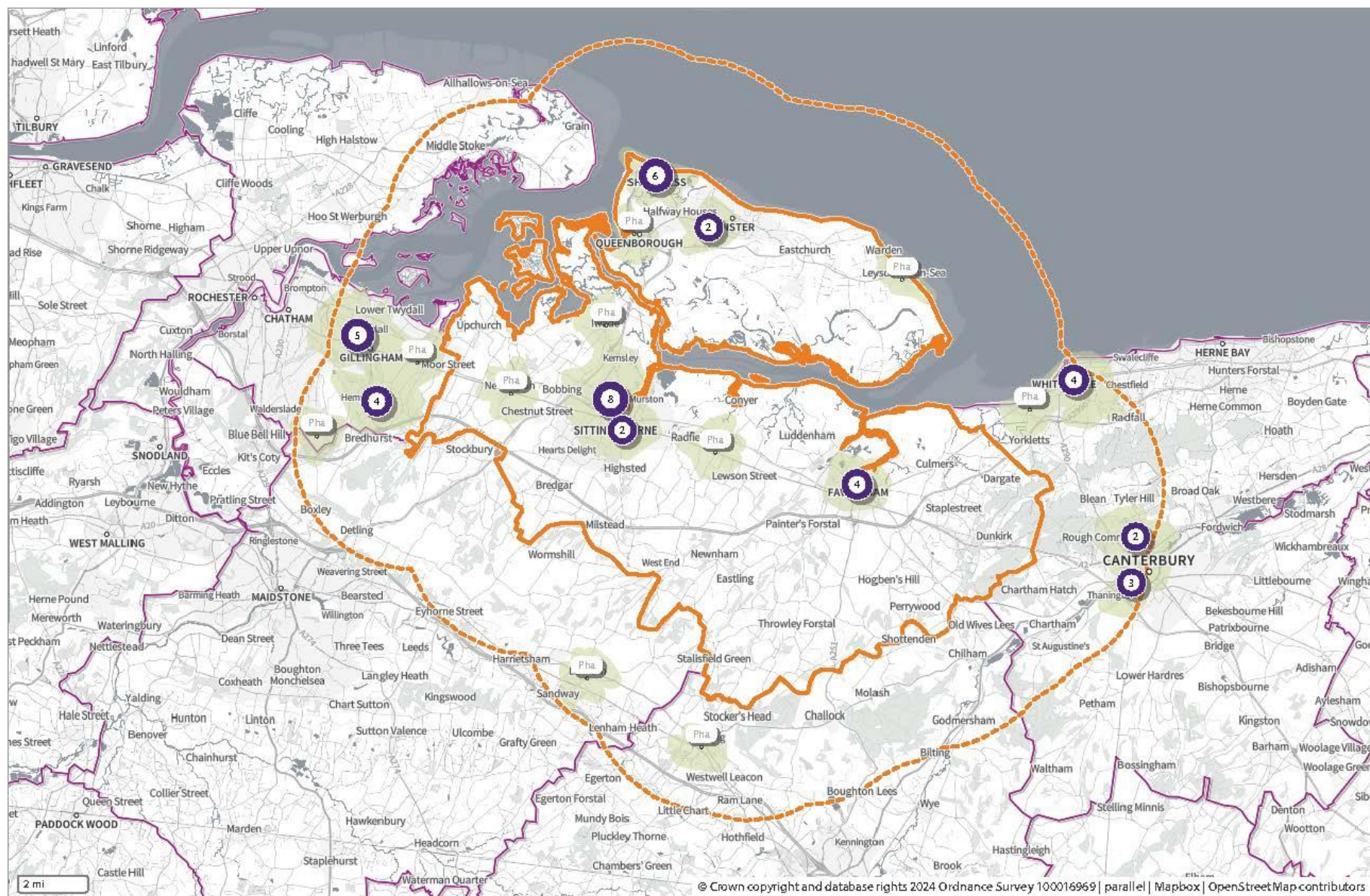


Figure 38: Swale driving 20 minutes rush hour

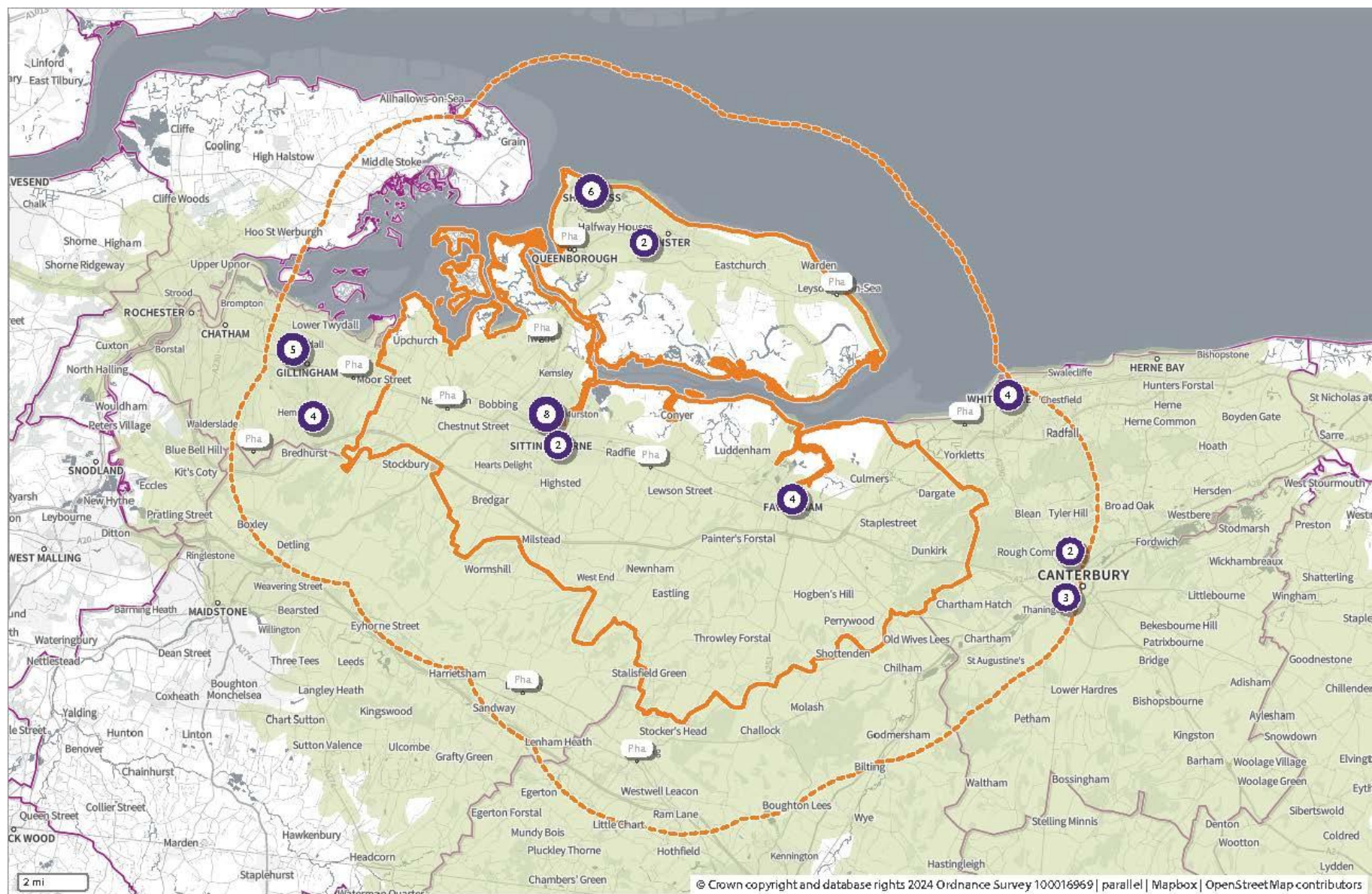
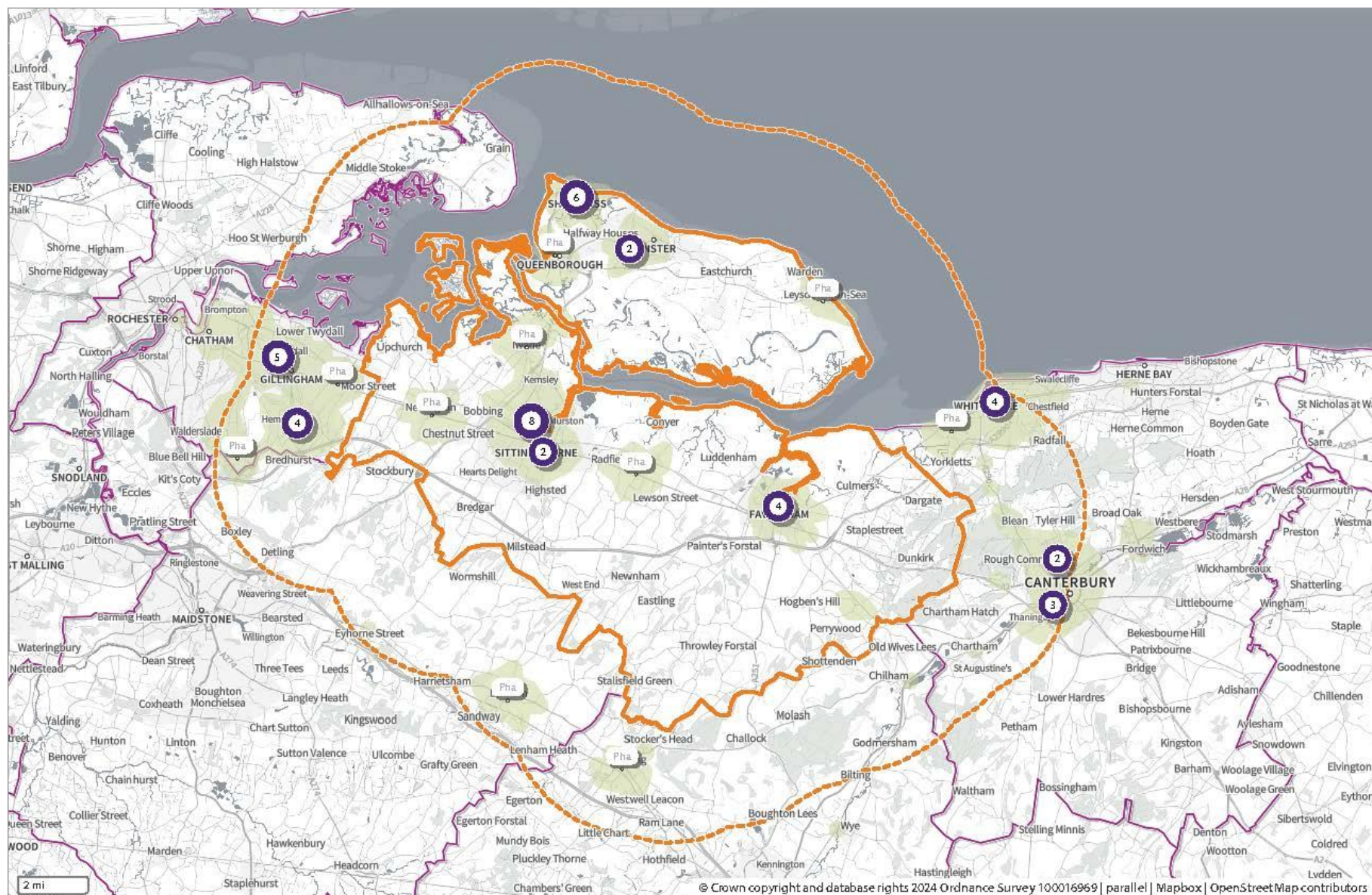


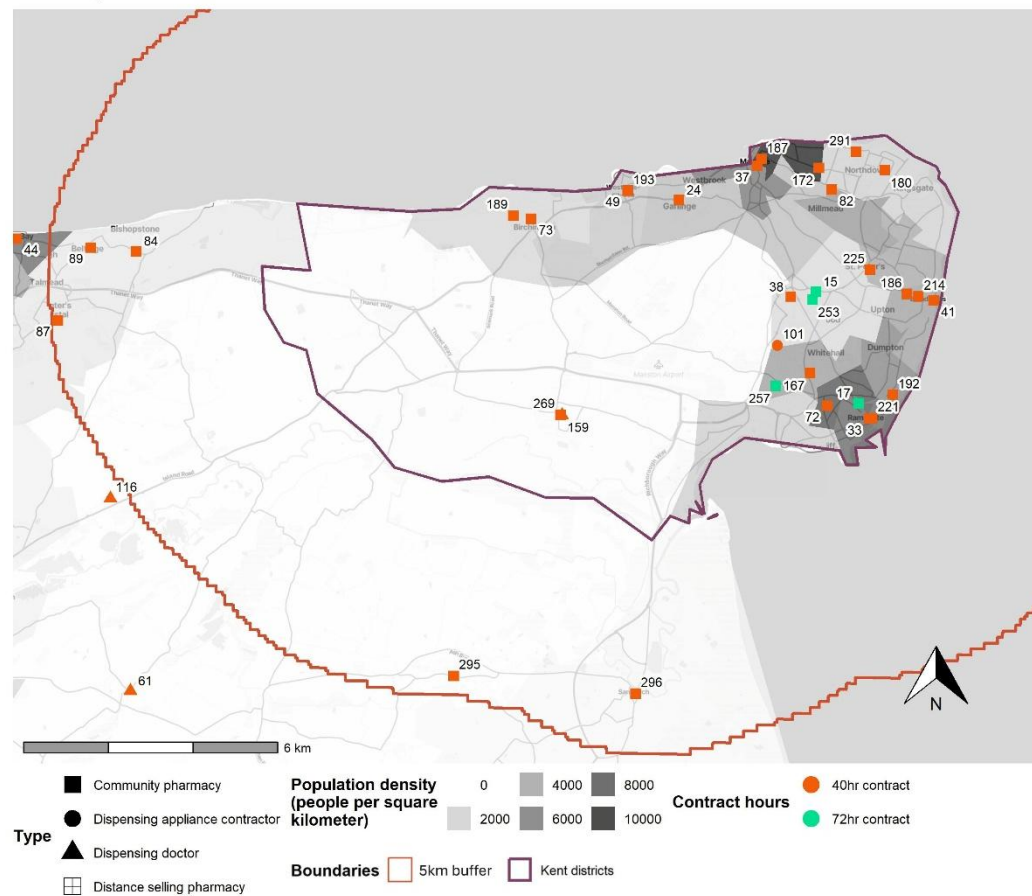
Figure 39: Swale public transport 20 minutes weekend morning



Thanet maps

Figure 40: Pharmacy sites, contract hours in Thanet (with 5 km buffer)

Pharmacy sites: Contract hours in Thanet with 5km buffer



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Map baselayer source: Stadia Maps
Pharmacy sites by contract hours in Thanet
Produced by KPHO

Figure 41: Thanet walking 20 minutes

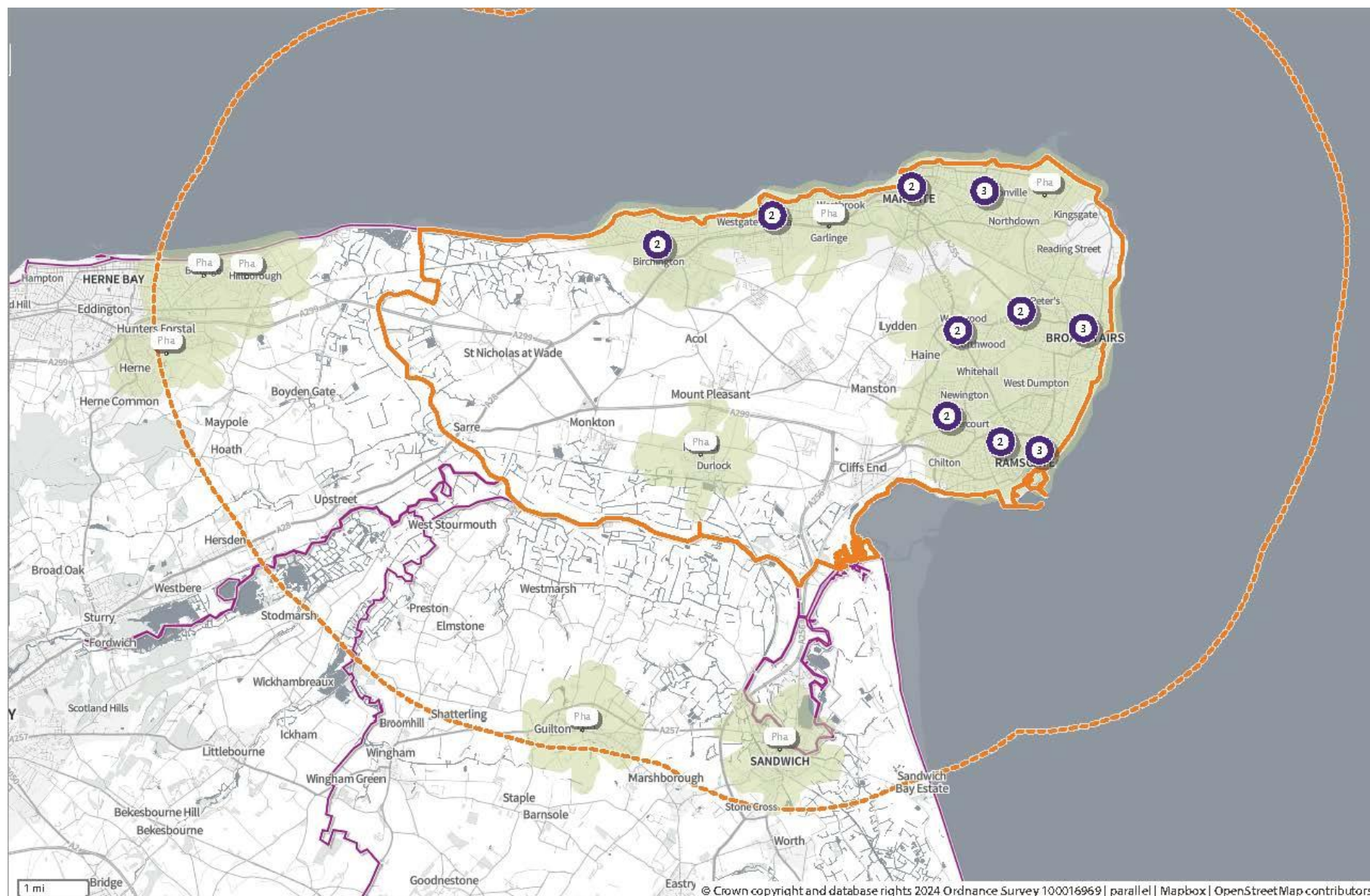
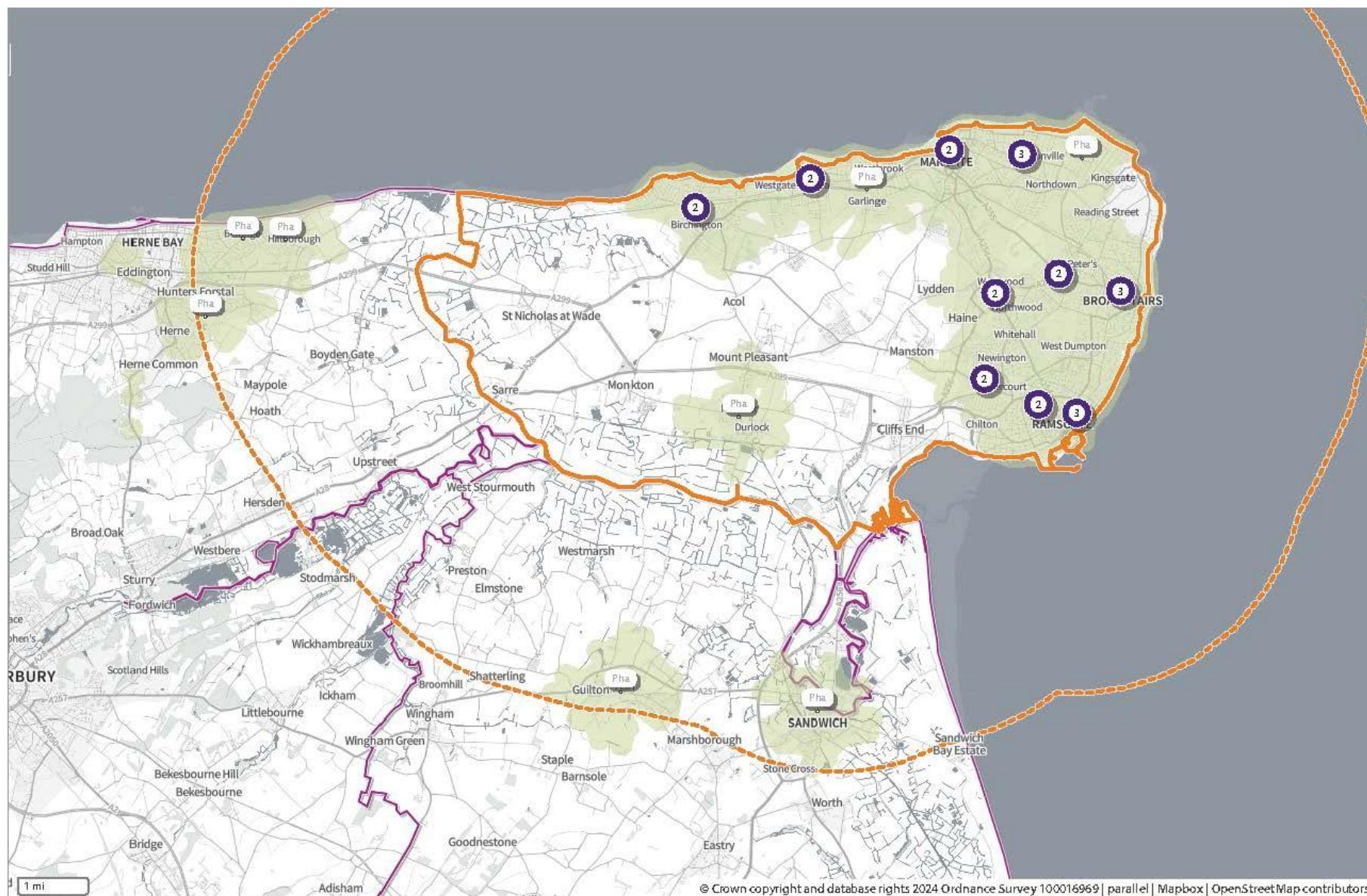


Figure 42: Thanet driving 20 minutes rush hour

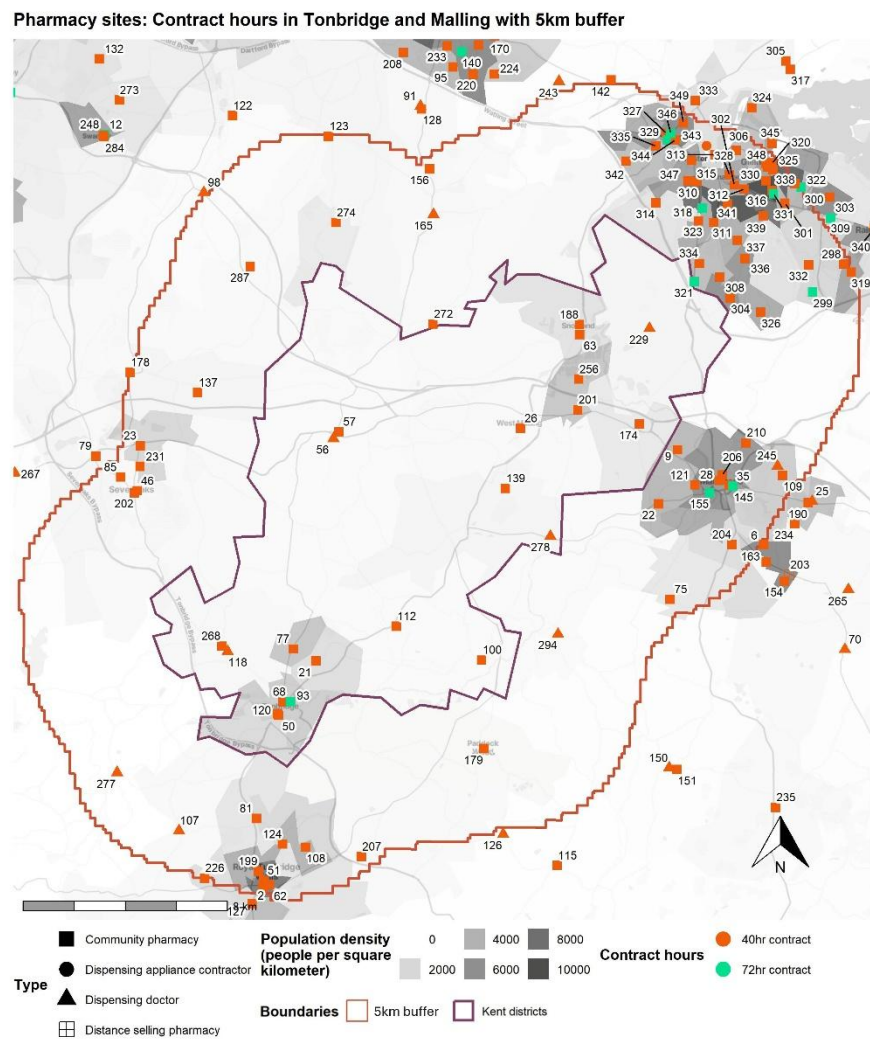


Figure 43: Thanet public transport 20 minutes weekend morning



Tonbridge and Malling maps

Figure 44: Pharmacy sites, contract hours in Tonbridge and Malling (with 5 km buffer)



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Map baselayer source: Stadia Maps
Pharmacy sites by contract hours in Tonbridge and Malling
Produced by KPHO

Figure 45: Tonbridge and Malling walking 20 minutes

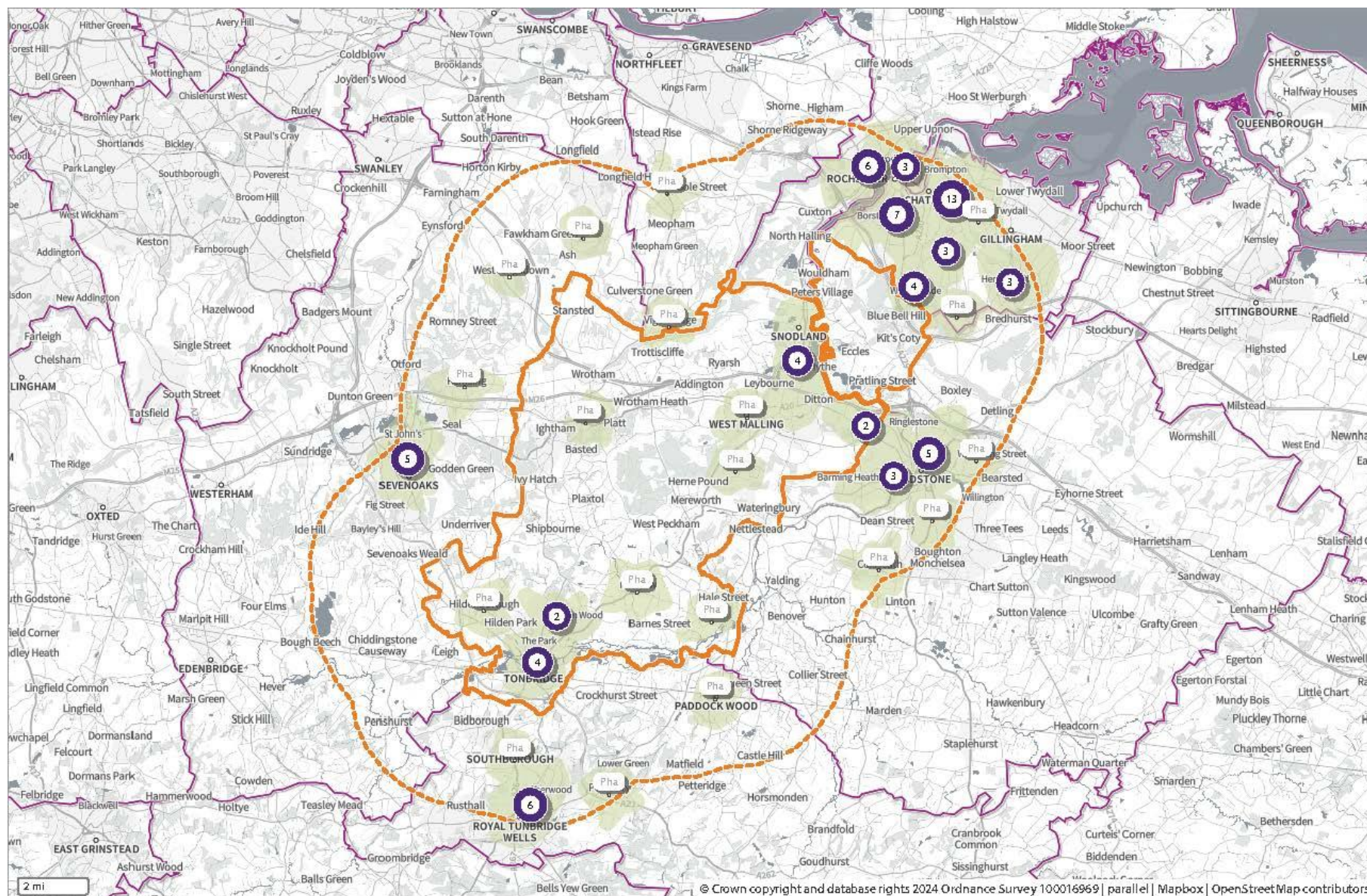


Figure 46: Tonbridge and Malling driving 20 minutes rush hour

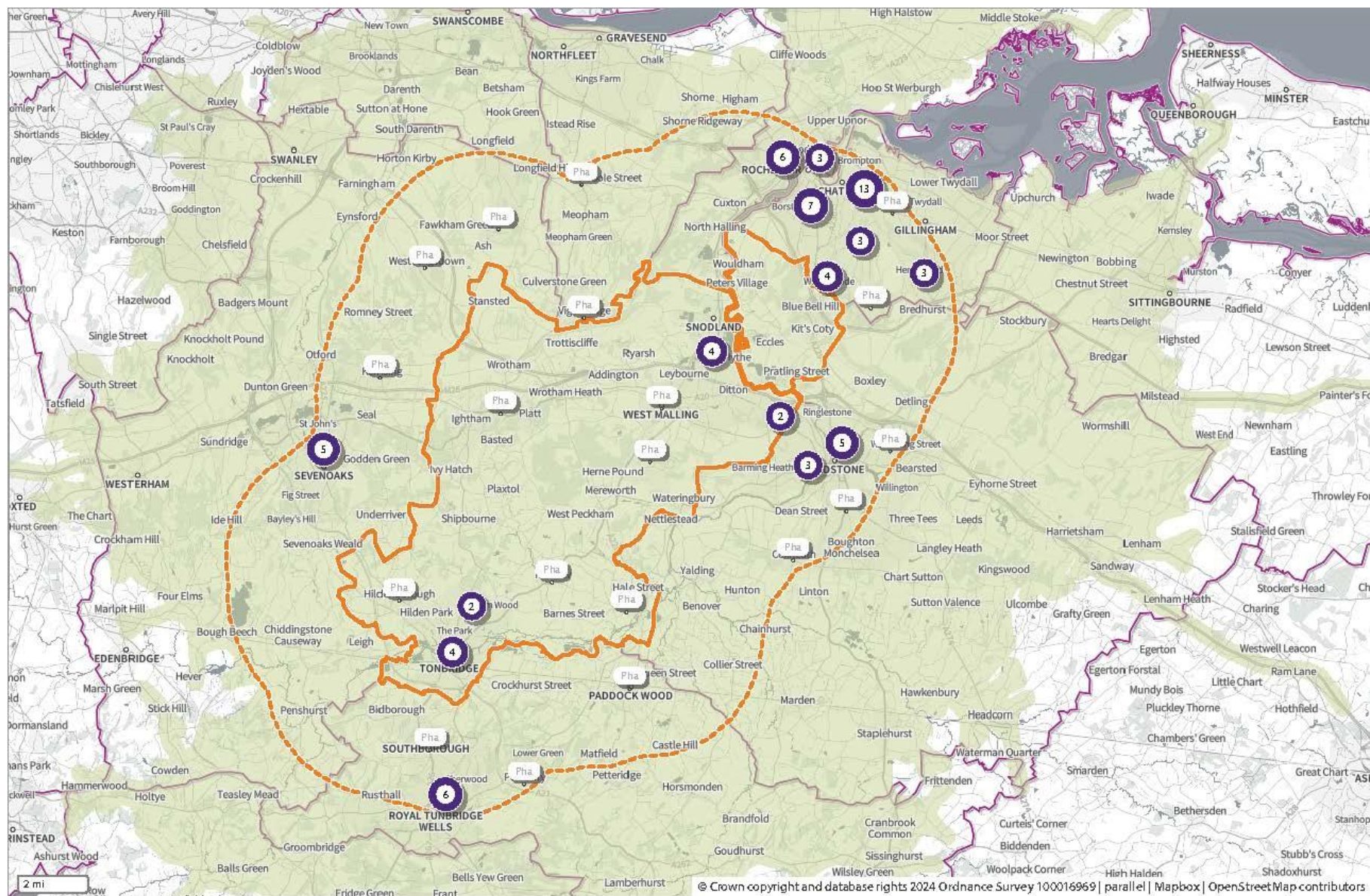
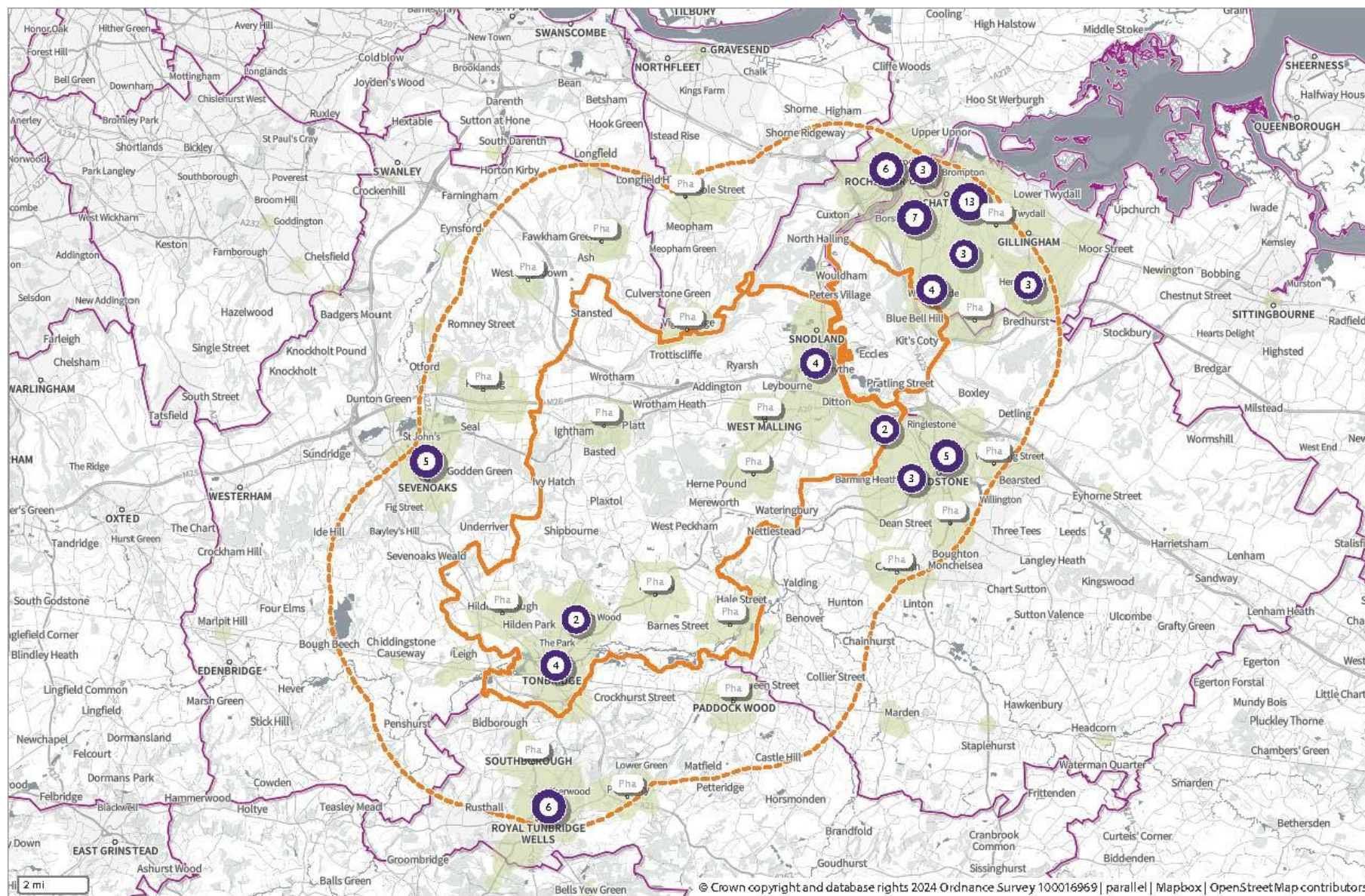


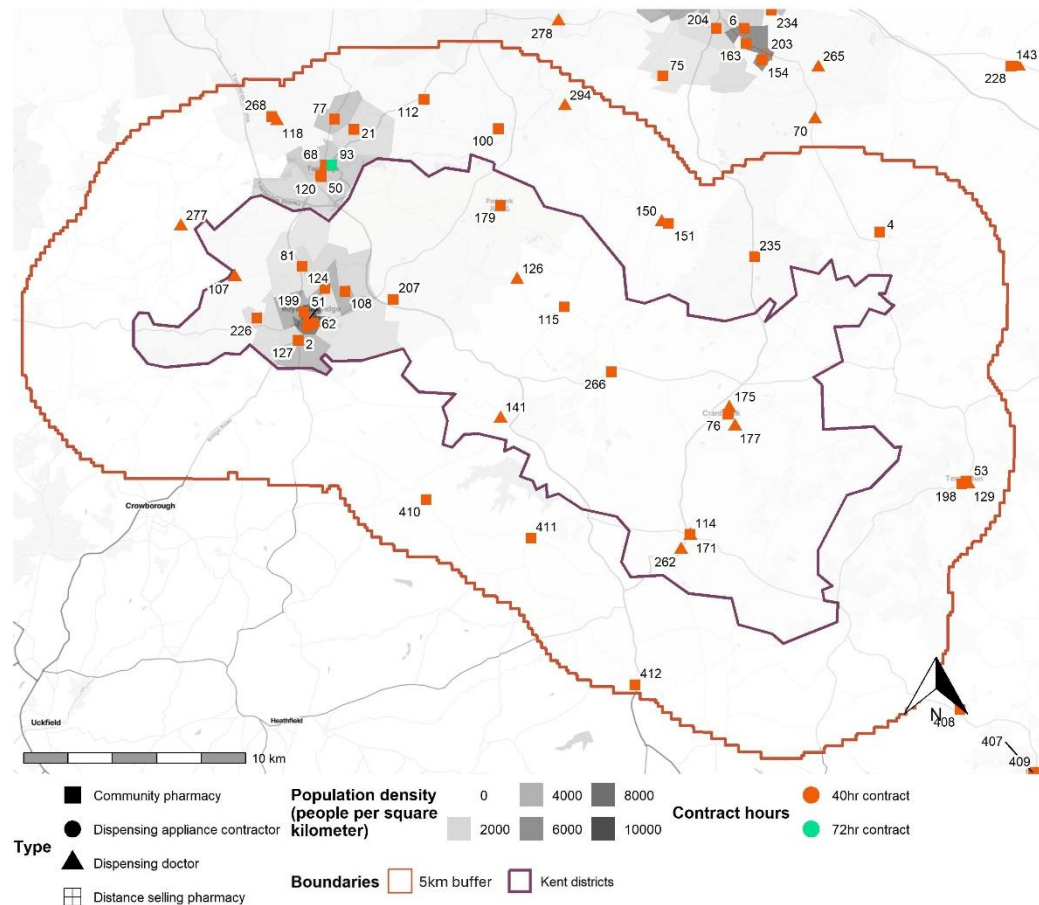
Figure 47: Tonbridge and Malling public transport 20 minutes weekend morning



Tunbridge Wells maps

Figure 48: Pharmacy sites, contract hours in Tunbridge Wells (with 5 km buffer)

Pharmacy sites: Contract hours in Tunbridge Wells with 5km buffer



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Map baselayer source: Stadia Maps
Pharmacy sites by contract hours in Tunbridge Wells
Produced by KPHO

Figure 49: Tunbridge Wells walking 20 minutes

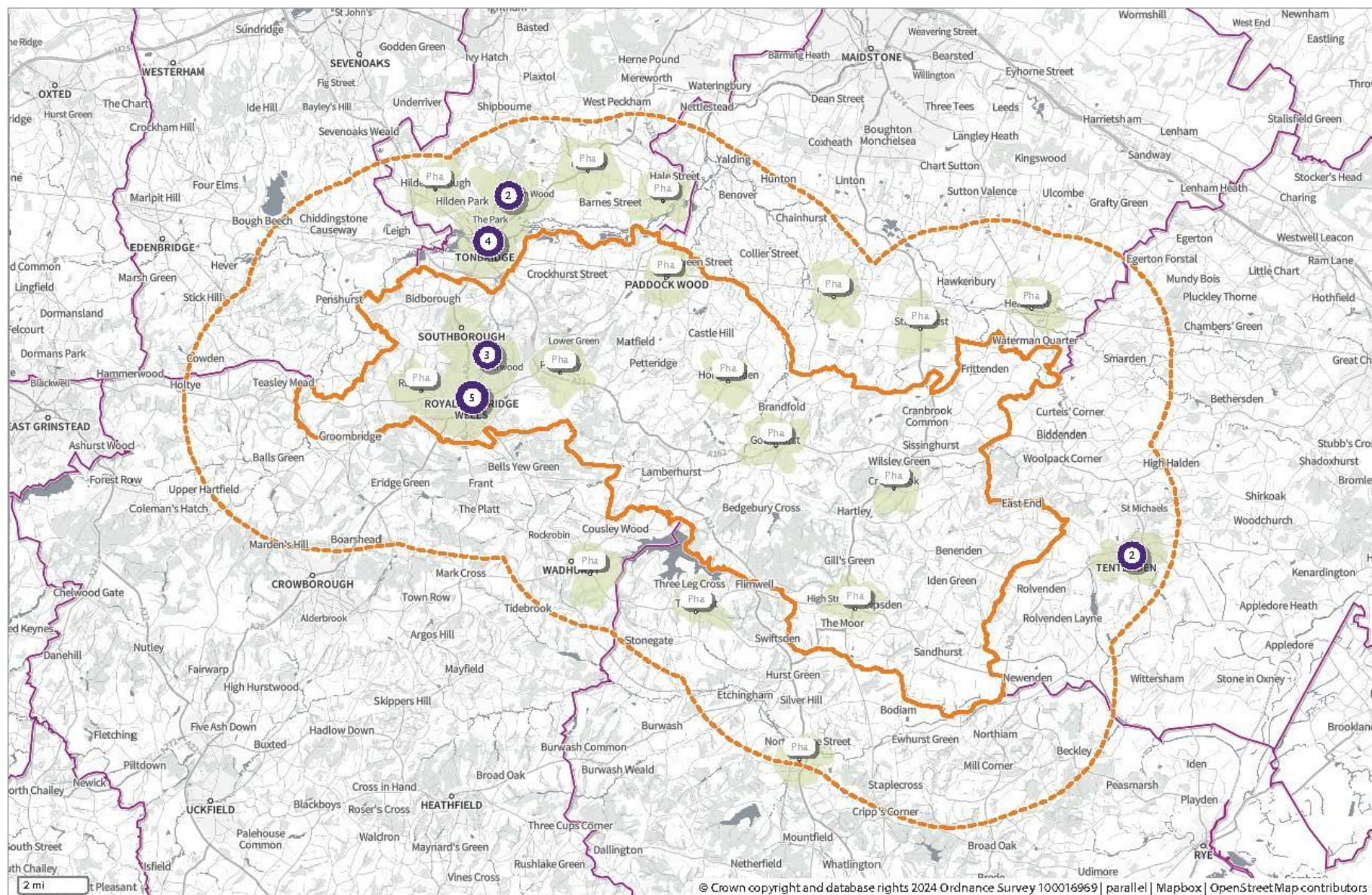


Figure 50: Tunbridge Wells driving 20 minutes rush hour

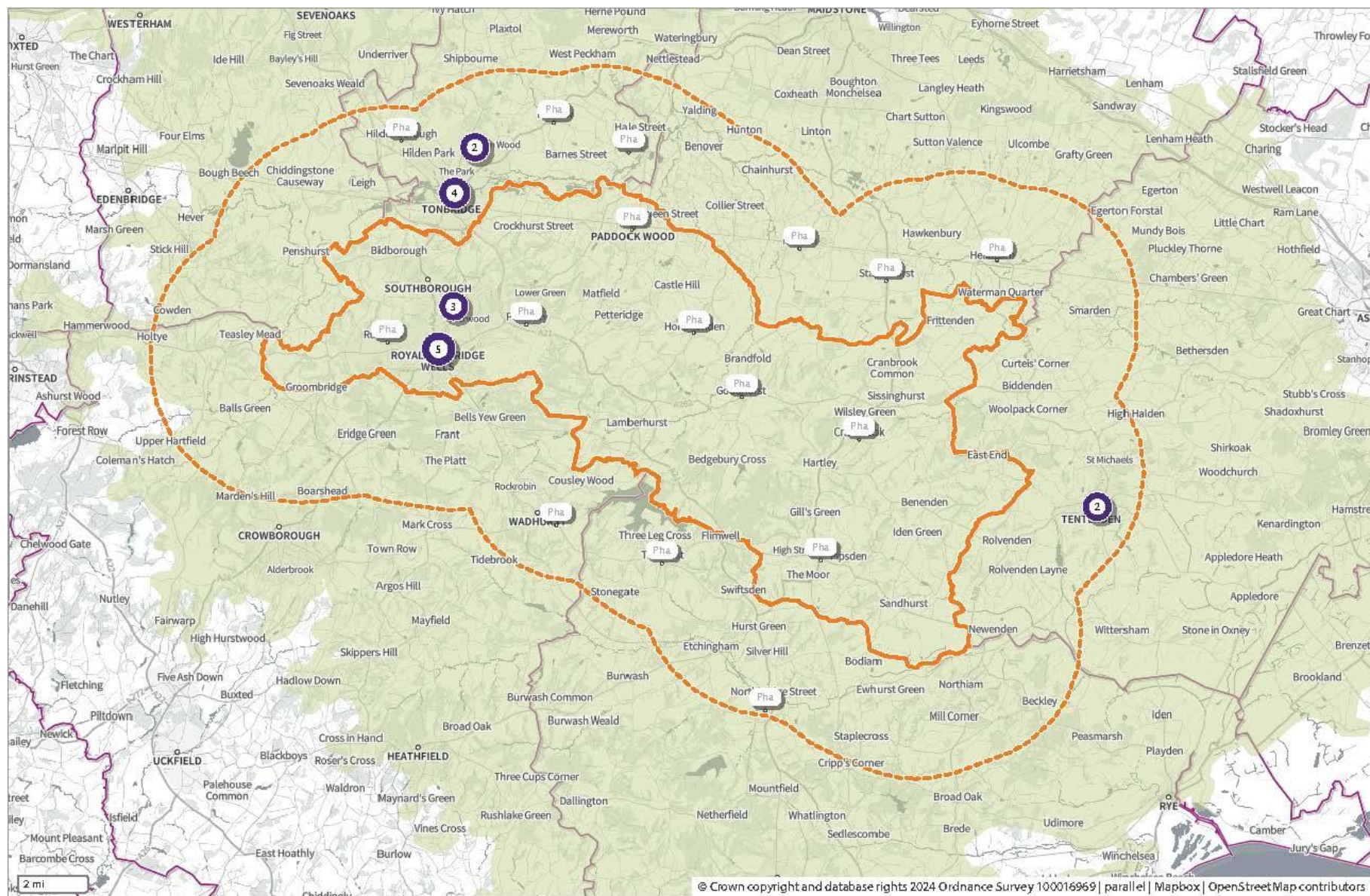


Figure 51: Tunbridge Wells public transport 20 minutes weekend morning

