



WINTER SERVICE OPERATIONS PLAN 2025

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1. INTRODUCTION

This London Borough of Redbridge (Redbridge) Winter Service Operational Plan sets out how the Council ensures safe and functional operability of its highway network during periods when it is or may be affected by ice and/or snow. This document outlines the procedures and protocols for addressing winter weather conditions, gritting decision matrices, resources and gritting routes that will be instructed. Ad-hoc instructions to treat the network can be requested by the decision officer. The Council will treat 227.4km of the borough roads, as well as footways outside key services and amenities by manually spreading salt.

Section 41(1A) of the *Highways Act 1980* (as inserted by Section 111 of the *Railways and Transport Safety Act 2003*) requires highway authorities to ensure, so far as is reasonably practicable, that safe passage along a highway is not endangered by snow or ice. Alongside this Section 150 of the *Highways Act 1980* requires highway authorities to remove obstructions in a highway arising from the accumulation of snow.

This operational plan aligns with the requirements of the *Code of Practice: Well-Managed Highway Infrastructure (October 2016)* (the Code), Section B.7 Winter Service. The Operational Plan also draws upon the National Winter Service Research Group (NWSRG) Practical Guide for Winter Service.

Through the implementation of this plan, Redbridge aims to:

- as far as it is reasonably practicable, prevent highways from becoming obstructed by an accumulation of snow and ensure that safe passage along its highways is not endangered by snow or ice,
- ensure that a co-ordinated approach is taken across London through the participation in the LoTAG Winter Service Practitioners Group (WSPG).

The legislative background lays down clear duties on highway authorities in terms of safety and traffic movement, and recognises, through the phrase “**as far as is reasonably practicable**” that authorities face resource and financial constraints. In addition, a service based on spreading salt or physically clearing snow, takes time to provide. Therefore, it is inevitable that under adverse winter conditions some roads will remain affected, and budgets need to reflect a service prioritised by likelihood and impact of occurrence.

Point B.2.3.4 of the Well-Managed Highway Infrastructure 2016 states:

Given the scale of financial and other resources involved in delivering the Winter Service, it is not considered reasonable either to:

- *provide the service on all parts of the Network; and*
- *ensure carriageways, footways and cycle routes are kept free of ice or snow at all times, even on the treated parts of the network.*

Redbridge do not treat private roads and public car parks. The Winter Service exists specifically and exclusively to ensure safe operability of the highway network, and therefore other Council services which may be affected by snow and/or ice (other than on the highway) should have in place their own arrangements for business continuity which do not rely on resources that are part of the Winter Service.

Only after fulfilling its statutory duty, Redbridge may provide support to stakeholders such as London Buses and emergency service depots when it has capacity to do so during severe winter weather.

Due to the impacts of climate change it is envisaged that longer sustained periods of below freezing temperatures will become more frequent, and the Council has put in place adequate levels of salt storage and resilience as part of its Winter Service Plan (this document) to cope with the likelihood of additional snow and below freezing weather events.

2. PLANNING

2.1. WINTER SERVICE PERIOD

The Winter Service period is the period in which operational staff are ready to deploy and treat the highway network as per the Winter Service Plan and essentially defines when this plan becomes operationally live.

The Winter Service period commences on 1 November, and full standby arrangements detailed in this document are in place until 30 April. If adverse conditions occur outside of that period contingency arrangements are in place to respond accordingly.

Those contingency arrangements are the activation of the Severe Weather Desk and instruction of contractors and re-deployment of staff to assist with the delivery of the Winter Service Plan. The contingency arrangements can be activated by Council Gold or Silver at the request of the Client Officers.

- Council Gold: a Senior Officer of a London local authority who assumes overall strategic command of their council's response to a major incident. The Gold Officer sets the council's strategic objectives, ensures appropriate resources are allocated, and represents the authority at the Strategic Coordination Group (SCG) if required. If the incident has pan-London implications, the designated London Local Authority Gold (LLAG) will coordinate the collective response across all boroughs.
- Council Silver: a Senior Officer responsible for the tactical (Silver) management of the council's response to an incident. They coordinate local authority operations across services (e.g., housing, highways, social care), liaise with other agencies at the Tactical Coordination Group (TCG) if needed, and implement strategies set by Gold while overseeing the operational Bronze-level actions.

2.2. OPERATIONAL ROLES

Redbridge Highways and Transportation Team oversee the Winter Service and the Council's Direct Services Teams (DST) from the Civic Pride Directorate handle the operational aspect of the service. The team members are listed in Table 1:

Table 1: Winter Service staff

Winter Service Team			
Highways and Transportation Team		Direct Services Team	
Head of Highways and Transportation	Dhires Bhatt	Winter Maintenance Decision Officers (WMDOs)	Derek Wong
			Wayne Vaughan
			Dave Tarling
Group Manager	Johnson Gbagbo	Winter Maintenance Operatives (WMOs)	Ten operatives

There are ten operatives that have the required training and route familiarisation to undertake the treatment of the highway network using gritters. Four operatives will be on a rota on any given week with the appropriate resilience in case of sickness or reaching the limit on driver hours where further runs are needed.

The operational responsibilities of the team members are listed in Table 2:

Table 2: Winter Service operational responsibilities

Operational Role	Organisation
Before Winter Season	
Preparation of Winter Service Plan	Client Officers
Preparation and Annual Update of Winter Service Operation Plan	Client Officers

Operational Role	Organisation
Gritting Route Design	Client Officers & WDMOs
Weather Forecasting	MetDesk
Procurement and Storage of Salt/Grit	WMDOs
Competency	Client Officers & WDMOs
Operational Communications	Client Officers and Press Office
Operational Supervision	Client Officers
Operational Resources	WMDOs
Temporary Signage	WMDOs
During Winter Season	
Obtaining, Maintaining and Scrutinising Weather Forecasts	WMDOs
Decision Making/Instructing Salting	WMDOs
Gritting Operations	WMOs
Record and Log Decisions	WMDOs
Performance Monitoring	Client Officers
Vehicle Maintenance and Calibration	WMOs
Stakeholder Engagement	Client Officers
Severe Weather Desk (SWD)	Client Officers

The Council will call upon personnel if more resource is required from within the Council's other direct labour resource pools or from contractors it employs the services of, such as its Highways and Street Lighting contractors.

There will always be a WMDO available during the Winter Maintenance period who is responsible for looking at the weather forecasts that come in throughout the day, taking decisions in relation to Winter Service and recording the relevant actions instructed and completed in the appropriate systems.

For prolonged severe weather events or during periods of amber and red weather alerts the Council will activate a Severe Weather Desk which will be staffed by officers from the Highways and Transportation team.

3. THE NETWORK

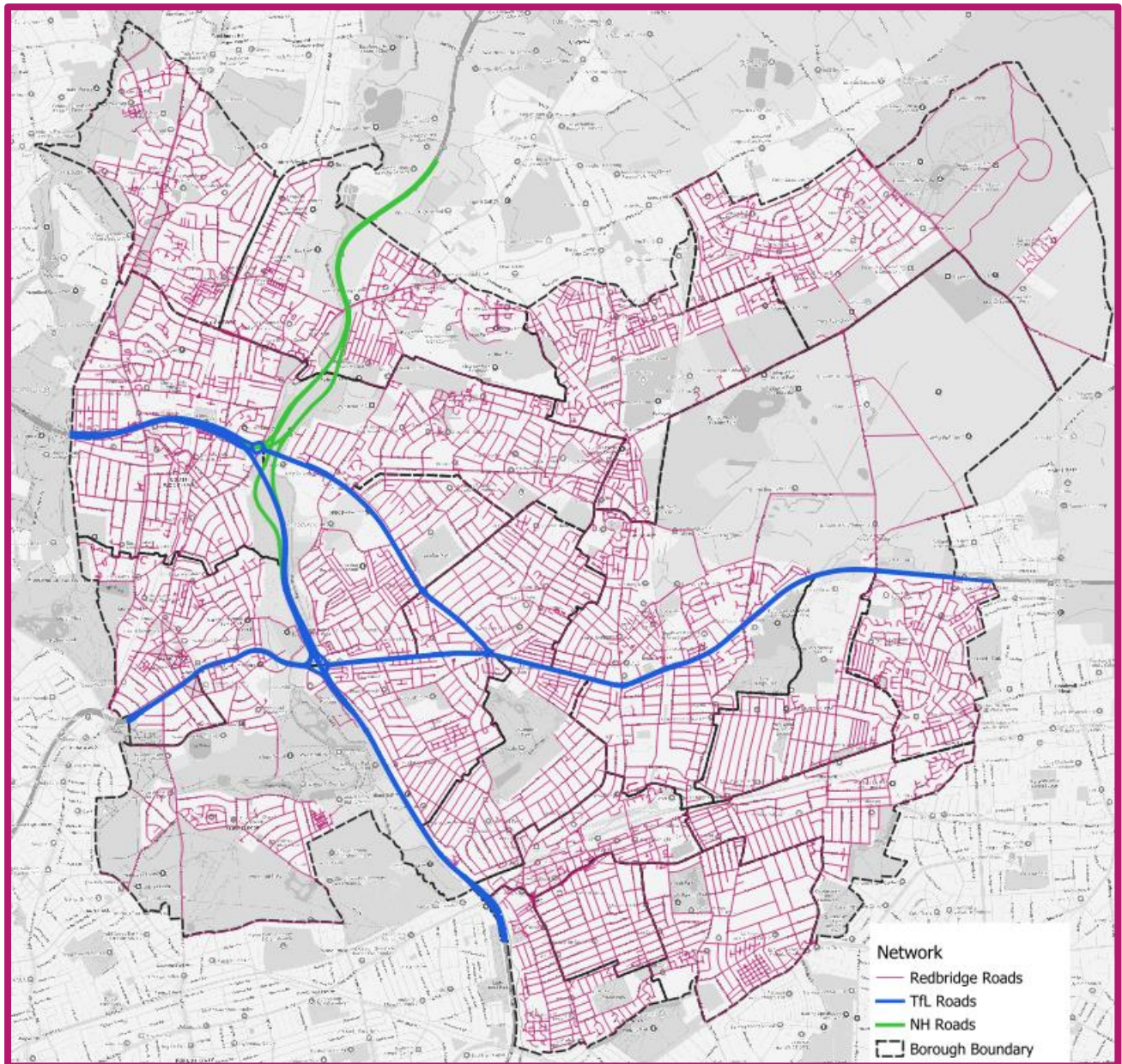
Redbridge is responsible for the maintenance and management of all adopted roads within the borough (596 km), the most up to date list can be found [here](#). The treatment routes consist of principal "A" roads, bus routes, and roads that provide access to emergency services and key traffic generators. The risk-based approach followed is outlined in **Chapter 5: Gritting Routes**, and the details of the routes implemented are shown in **Appendix A – Carriageway Gritting Routes**. It is envisaged that once a full carriageway treatment run is completed, every resident will be approximately 500m or less away from a treated carriageway.

Transport for London (TfL) own and maintain the A12, A406 and the A1400. Their contractors will treat those routes and footways following their own decision-making matrices. TfL's winter service plan is outlined [here](#).

The M11 is owned, maintained and treated by National Highways (NH) under their own decision matrices. More information on NH's winter service policy is found [here](#).

Figure 1 below shows the roads within borough boundary, managed by the different authorities.

Figure 1: Roads within Redbridge borough boundary



4. OPERATIONAL PLAN

4.1. SALT MANAGEMENT

The Council has salt storage facilities at Chigwell Road Recycling Centre and Station Road Barkingside. The capacity for each site is outlined in Table 3.

Table 3: Salt storage facilities

Salt Storage facilities	Capacity (Tonnes)
Chigwell Road Recycling Centre	800
Station Road	1,600
Total	2,400

Stockpiles are monitored throughout the winter maintenance period and replenished as necessary. Stock levels are regularly recorded by operatives on shovel duty while loading the gritters, and this information is reported weekly to the Client Officers. The Council has contracts in place with suppliers to regularly top up its salt levels and will call on national emergency reserves if required. The Council can also call upon mutual aid from neighbouring boroughs, TfL and NH and vice versa.

The Department for Transport (DfT) has developed a [Salt Protocol Note](#) for local highway authorities in England, establishing a resilience benchmark requiring each authority to maintain a minimum salt stock equivalent to 12 days of continuous treatment, or 48 runs. In line with this guidance, the Council must ensure that a minimum of 1,152 tonnes of salt is held in its stores throughout the winter maintenance period. If the salt level falls below the minimum, and deliveries cannot be made, the Client Officers will consult with Senior Council staff and leadership to decide whether gritting routes are limited to the Resilience Network.

4.2. VEHICLES AND PLANT

The Council currently have the following plant and equipment listed in Table 4 below at its disposal to treat the highway network:

Table 4: Vehicles and equipment available

Vehicles and Equipment	Quantity	Capacity (Tonnes)
Econ 3cu3 spreader	1	7.5
Econ 6m3 CMA spreader	2	18
Econ 6m3 spreader	1	18
Snow Plough Attachment	4	-
Loading Shovel	1	-

More information about the vehicles is available on the manufacturer's [website](#).

The WMOs are responsible for cleaning and lubricating the vehicles at the end of every day. They will also raise any issues or faults experienced as soon as possible to avoid impeding gritting activities and keep the gritters at full operational capacity.

4.3. FUEL

Arrangements will be made to always have suitable fuel stocks. WMOs will ensure vehicles are appropriately refuelled to guarantee coverage of the whole route.

4.4. WEATHER FORECASTING

A weather forecasting contractor is employed to produce a bespoke service throughout the **Winter Service Period** as defined in the section above. The contractor currently providing the service to the council is MetDesk. The Council is provided with the updates, as shown in **Figure 2**:

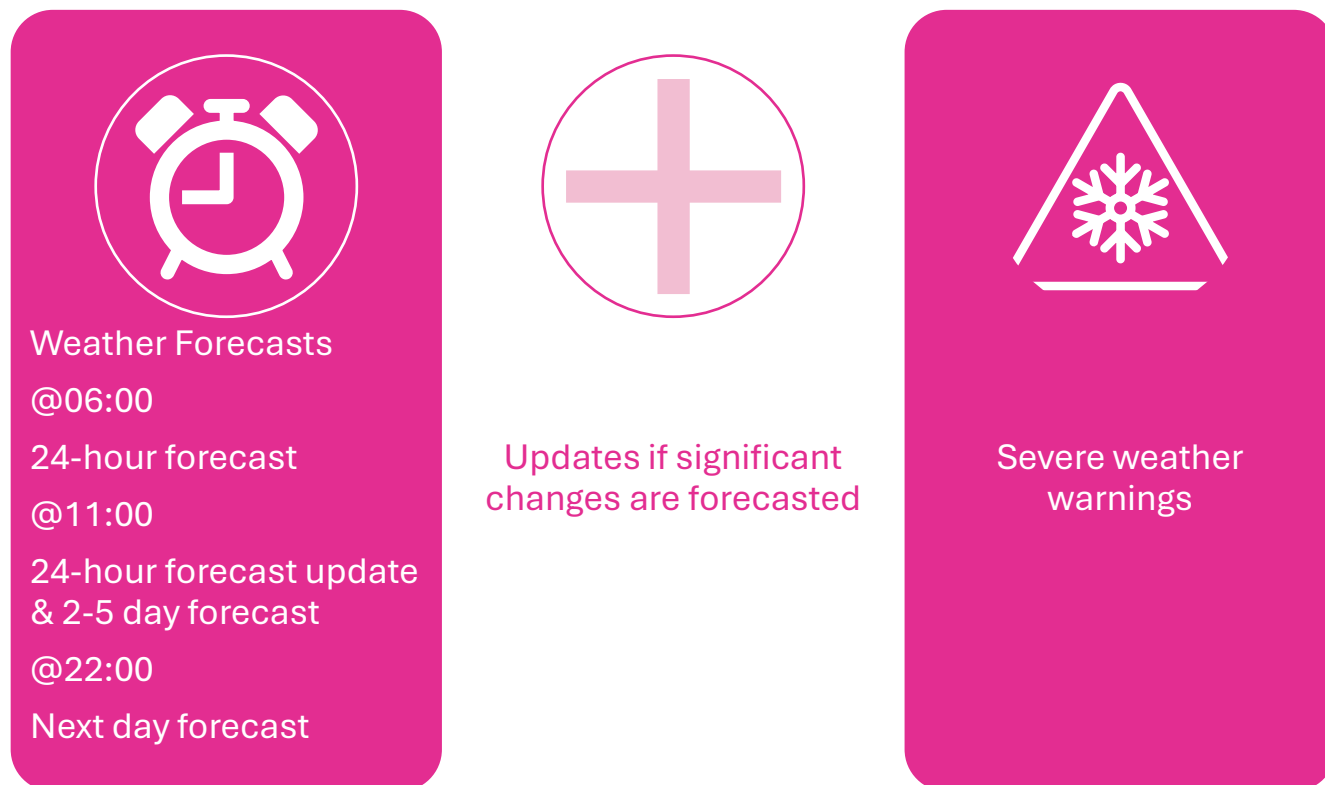


Figure 2: Weather forecasting regime

The forecasts will be domain based and provided through email with an attachment containing various elements to assist the WMDOs and Council Officers with decision making, such as road surface temperatures (RST), air temperature, wind, visibility precipitation type and amount, any risks such as hoar frost, ice and snow accumulation. It will also provide the confidence, and a general synopsis to assist the decision makers.

The forecaster will also make available the service of its "bench", a 24/7 phone line that WMDOs and Council Officers can use to request updates on the weather, clarify anything in the forecast or ask bespoke questions in relation to the forecast.

The WMDOs will take a decision using the matrices outlined in **Decision Making Process & Matrices** below to carry out pre-salting operations or not. The decision is usually formed from the 11:00 forecast as it provides enough time to mobilise resources, vehicles and load the salt before the colder road surface temperatures set in before sunset and the formation of frost and ice are most likely. The WMDOs will aim to make a decision by 4pm for an evening treatment or as soon as possible if an early afternoon treatment is required.

If the forecast is unclear and a treatment decision is what is referred to as 'marginal', the WMDOs can either make a positive proactive decision to stand resources up and then stand down if an update received from the forecaster shows treatment is no longer required, or the WMDO can defer their decision and request a further update from the forecaster.

4.5. DECISION MAKING PROCESS & MATRICES

The Winter Maintenance Service consists of the activities outlined in **Figure 3**:



Pre-Salting

The spreading of rock salt on roads before the expected formation of frost, snow or ice.



Post-Salting

Treating roads after the snow or ice has formed.



Snow Clearing

From roads and footways stated in the appendices through installing ploughs on gritters and clearing snow by hand on footways.



Salt Bins

Strategically placed bins throughout the borough that can be used to assist footway gritting

Figure 3: Winter maintenance activities

The decision taken by the WMDO is to be recorded electronically and instructed via the forecasters system. That instruction is then sent to the distribution group nominated on the system. Should any revised or additional instructions be required, these will be amended on the system and re-sent. The decision will be taken and recorded every day during the Winter Maintenance Period, even in instances where there is no action. Should the system go down, the WMDOs will revert to emails for formally recording instructions and retrospectively input decisions into the system later.

The next day before midday the decision sheet will be recorded on the forecasters system to note the actions that were complete throughout the previous day, and justification if any actions instructed were not carried out. This forecasting system will then email the information to the nominated distribution group.

For urgent requests to treat, the mobilisation period is 90 minutes from the instruction given by the Client Officers. In case of forecasted bad weather, the gritting vehicles will be wherever possible pre-loaded and kept under cover at Ley Street Depot to allow for rapid response.

Figure 4 and Table 5 are guides that assist the WMDOs in determining whether treatment is appropriate. The final decision rests with the WMDOs, provided they record it along with a reasonable justification. Each decision will then be monitored post-service and lessons learned will be drawn for future cases.

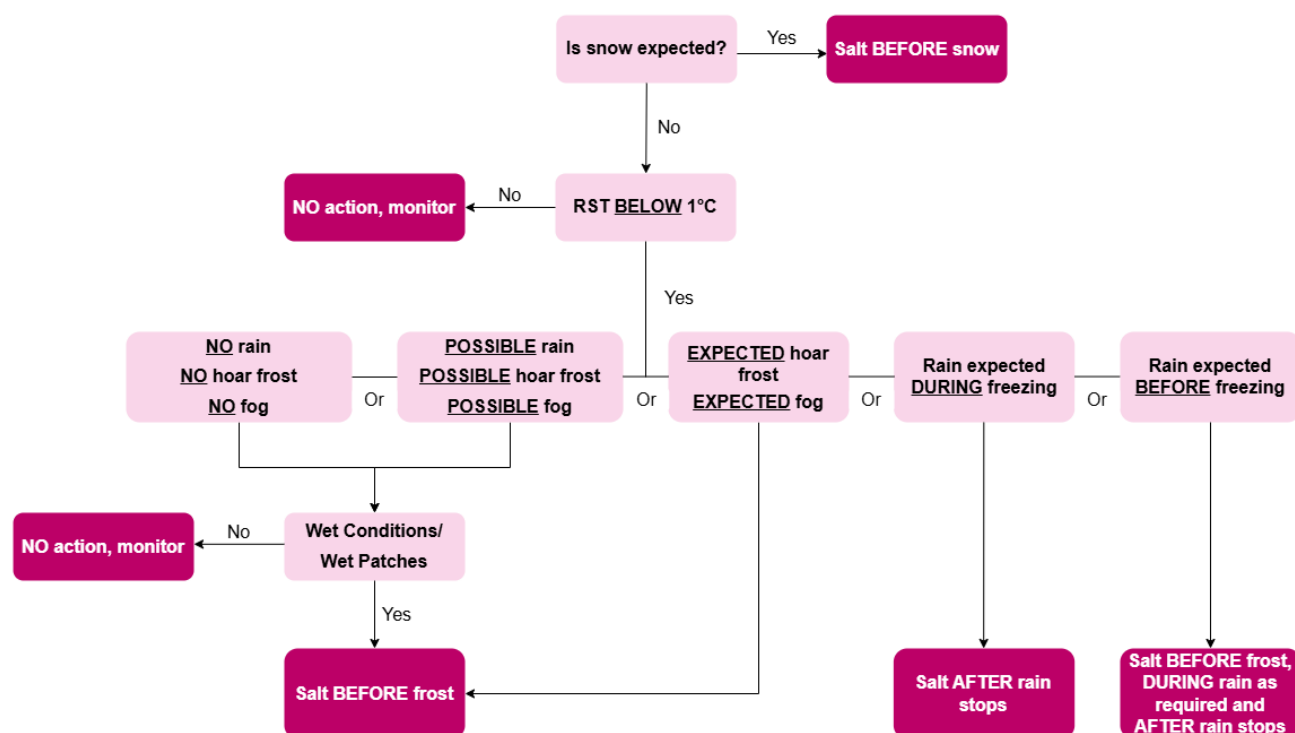


Figure 4: Flowchart showing decision-making process

Table 5: Spread rates guidance

Weather Conditions Road Surface Conditions Road Surface Temperature (RST)	Treatment		
	Air Temperature	Salting (g/m ²)	Ploughing
Frost or forecast frost RST at or above -2°C	n/a	10	No
Frost or forecast frost RST below -2°C and above -5°C	n/a	20	No
Frost or forecast frost RST at or below -5°C and above -10°C Dry or damp road conditions	n/a	20	No
Frost or forecast frost RST at or below -5°C and above -10°C Wet road conditions (existing or anticipated)	n/a	2x20	No
Light snow forecast (<10mm)	n/a	20	No
Medium/Heavy snow forecast	n/a	2x20	No
Ice formed (minor accumulations)	Above -5°C	20	No
Ice formed	At or below -5°C	2x20	No
Snow covering exceeding 30mm	n/a	20—40 (successive)	Yes
Hard packed snow/ice	Above -8°C	20—40 (successive)	No
Hard packed snow/ice	At or below -8°C	Salt/abrasive (successive)	No

The rate of spread for precautionary treatments may be adjusted to take account of residual salt or surface moisture. The final decision is to be taken and recorded by WMDOs.

If snow is forecast and will exceed 50mm, the WMDOs may decide to instruct ploughs are fitted to remove snow as well as treat roads

4.5.1. CONSIDERATIONS

The following notes outline key precautions and procedures for the effective application and management of salt during gritting activities.

Use of salt/sand and ballast:

- Where salt is to be used, it must be applied in its neat form. Sand or ballast will be sent out later if considered necessary.
- Care must be taken that salt is not spread needlessly, or wastefully and any lumps must be broken up. If mechanical spreading machines are not available, staff will spread de-icers using hand shovels. This should only be done on the instruction of the WMDOs or Client Officers.
- Care must be taken to ensure that salt is not thrown on pedestrians, vehicles, lawns, flower beds and at least 1.8m away from a young tree where practicable.

Loading and transportation of salt

Salt will be transferred to the appropriate storage sites and grit bins appropriately and in time for severe weather to not disrupt gritting operations.

Council departments snow clearance procedures

Due to the need to prioritise Highways, all other Departments will make their own arrangements prior to the winter season, and resources should not be diverted from the legal duty to treat Highways unless on the instruction of the Operational Director of Neighbourhood and Environmental Services or delegated to the Client Officer. All other Directors have been informed of this and should have their own arrangements in place.

4.6. CONTINGENCY

Upon receiving a forecast that predicts prolonged or significant snow across the borough, the Client Officers from the Highways and Transportation team will establish a Severe Weather Desk (SWD). The desk will be based at either Lynton House, Ley Street Depot or held virtually if required. The desk will be available 24/7 from when it becomes operational until it is closed, and staffing will be programmed to ensure availability all throughout its operation.

The SWD assists the WMDOs and allows them to focus on the tactical response, whilst it manages the overall strategic picture. The SWD will record additional instructions or requests to treat or re-treat parts of the network from the emergency services, TfL, and other relevant authorities. It will then feed that into the WMDO's tactical plan and act accordingly. Daily calls will be arranged for updates to all internal stakeholders and provide strategic direction for the WMDOs.

All requests from the Customer Contact Centre, complaints or any matter related to the Winter Service should be sent to the SWD for it to respond to and act if appropriate. The SWD will also link in and provide up to date records of actions and logs to the Civil Protection team that undertake the Emergency Planning function of all additional requests to treat the network and all decisions made by the WMDO as part of the tactical treatment plan. It will also be available to join any Tactical or Strategic Coordination Group calls (TCG/SCG) to provide updates and take any instructions from the Councils Silver or Gold groups that may be activated.

The Client Officers will decide to close the SWD in consultation with the Civil Protection team.

4.7. POST SERVICE ACTION

Following any winter maintenance service completed, the WMDOs must record the following on the decision portal:

- Route Areas
- Start time of mobilisation
- Application rate
- Any hazards encountered

The drivers must also fill a precautionary salting sheet which records:

- Driver's Name
- Vehicle Registration Number
- Date
- Start and finish mileage
- Spread rate
- Tonnage

All vehicles and equipment should be cleaned, lubricated and checked by the WMOs daily. The gritters will be thoroughly inspected before the start of the winter period, and every six weeks until the end of the winter period by the WMOs.

5. GRITTING ROUTES

5.1. CARRIAGEWAYS

There are two levels of service for the treatment of roads depending on factors and drivers set out based on a risk-based approach as defined in the Code:

- Resilience Network forming the minimum treatment network of fundamental roads the Council can fall back on should there be a prolonged severe winter weather period. The decision to only treat the resilience network is taken by Client Officers in consultation with Senior Council staff and the Council Leadership.
- Primary Network, or “Red” Routes, capturing the high-risk areas that should be treated when the decision to grit the network is taken.
- Secondary Network, or “Blue” Routes, capturing supplementary risk areas. The decision to treat the “Blue” routes along with the “Red” routes is taken by WMDO.

All other roads will not be treated unless stated otherwise by the WMDO. Information on the agreed routes are summarised in the table below:

Table 6: Gritting routes summary

Routes	Route 1	Route 2	Route 3	Route 4	Total	10g/m ² Rate	20g/m ² Rate
Resilience Network	50.32km		43.73km		94.06km	4.4tn	8.8tn
Primary Routes	22.4km	37.5km	29.9km	19.8km	109.6km	5.9tn	11.8tn
Secondary Routes	29.0km	22.6km	27.3km	27.6km	106.5km	6.1tn	12.2tn

Details of the routes are in **Appendix A – Carriageway Gritting Routes**.

5.2. FOOTWAYS

Redbridge acknowledge there is risk on the footway network with regards to winter weather, and following a risk-based approach, identified key locations where risk is significant. **Table 7** below lists the drivers considered as highest priority for footway gritting, and **Appendix B – Footway Gritting** lists the roads where footway gritting will take place. The policy for footways is to manually spread salt outside the entrances of these facilities and up to 25 metres either side of the entrance following completion of carriageway gritting.

Table 7: Footways gritting routes ruleset

Gritting Routes	Functionality Definition
Footway Network	• Hospitals and police stations, • Schools with more than 1,500 students, • Town centres and retail areas, • Libraries (warm places), • Entrances to subways,

- NHS clinics and residential care homes

5.3. CYCLEWAYS

Cycleways are currently treated alongside carriageways. No specific treatment is specified for segregated cycle routes. In the event of Redbridge adopting kerb-level segregated cycleways, the Winter Service Plan will be reviewed to include treatment decisions and frequencies of those assets.

5.4. SALT BINS

Along with WMOs spreading salt where critical, 64 salt bins are provided where deemed necessary for use on public footways. The number and location of salt bins in the borough will be revised ahead of the next winter period. The current locations are detailed in **Appendix C – Salt Bin Locations**.

6. COMMUNICATION AND LIAISON

Clear communication between relevant teams, covering both the tactical deployment of resources and the strategic overview of the borough, is essential to the successful delivery of the Winter Service Plan.

The WMDOs will communicate via the decision log to the Client Officers about the instruction to treat. Frequent liaison between internal Council teams will take place during periods of severe winter weather on TCG or SCG calls or via the SWD through its daily calls or other methods of communication.

All instructions will be picked up by the Council's Press Office team and look to schedule in posts on social media to show what the Council is doing. All public enquiries about Winter Service from the press will be dealt with by Redbridge's Press Office Team. Where circumstances allow, the WMDOs will provide relevant information to the Press Office to enable operators to provide real time information to the public. Isolated incidents are also dealt with on request, especially from the Police, in response to difficult circumstances, subject to availability of resources.

Figure 5 below summarises the communication channels between different stakeholders.

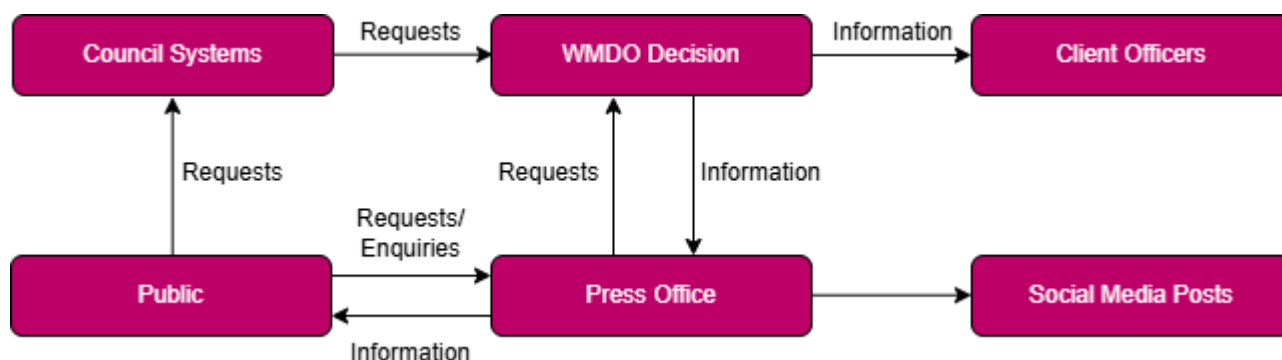


Figure 5: Communication process

Effective coordination during periods of severe winter weather relies on timely communication with neighbouring authorities and the emergency services. The SWD, Client Officers, or the Civil Protection team will maintain contact with relevant stakeholders, including the London Boroughs of Waltham Forest, Newham, Barking and Dagenham, and Havering, as well as TfL and NH, to ensure a consistent and collaborative response.

For further information visit Redbridge's website: <https://www.redbridge.gov.uk/roads-and-pavements/gritting-and-snow/>

The Key Contacts for Redbridge are provided in the Table 8 below:

Table 8: Key contact lists

Role	Name	Email Address
Head of Highways and Transportation Team	Dhires Bhatt	Dhires.Bhatt@redbridge.gov.uk
Group Manager	Johnson Gbogbo	Johnson.Gbagbo@redbridge.gov.uk

More help is available in **Appendix D – Self-Help Guidance** to allow individuals to properly aid others in treating local areas.

7. COMPETENCY

The Client Officers will ensure staff are suitably trained and competent to undertake the Winter Service. Training records will be provided to Redbridge in advance of the winter season. Redbridge will also maintain training records for its staff.

All WMDOs and WMOs are expected to undertake the Met Office “Weather Essentials” course as a minimum and the Met Office “Weather in Practice” if further training is required. Moreover, they are expected to attend the IHE’s “Winter Services Decision Making” course or a similar course.

All WMDOs in the Winter Service shall have practical experience of supervising salting operations. Prior to the commencement of each winter period, briefing sessions are held with all staff and the Service Providers’ supervisors to discuss the Winter Service Operational Plan and procedures. Dry runs take place pre-season to ensure integrity of the planned service.

There is training available from City and Guilds and there is also some guidance for Supervisors contained in their Winter Service Operations (6159-01) Supervisor guidance which is available for free download online following this [link](#).

The Client Officers will ensure that:

- Every driver is familiar with the priority routes / any temporary issues (e.g. road works).
- Every driver has specific training to the vehicle allocated including safe operation of all fittings and attachments.
- Operatives are accredited to City and Guilds 6159 (Winter Service) or have sufficient experience in winter service.
- Loading shovel drivers have Certificate of Training Achievement Award.
- All staff undergo annual initial/refresher training in use of equipment, “hours of work regulations” and working methods.

APPENDIX A – CARRIAGEWAY GRITTING ROUTES

The carriageway primary gritting routes are shown in **Figure 6** below and detailed in **Table 9** below:

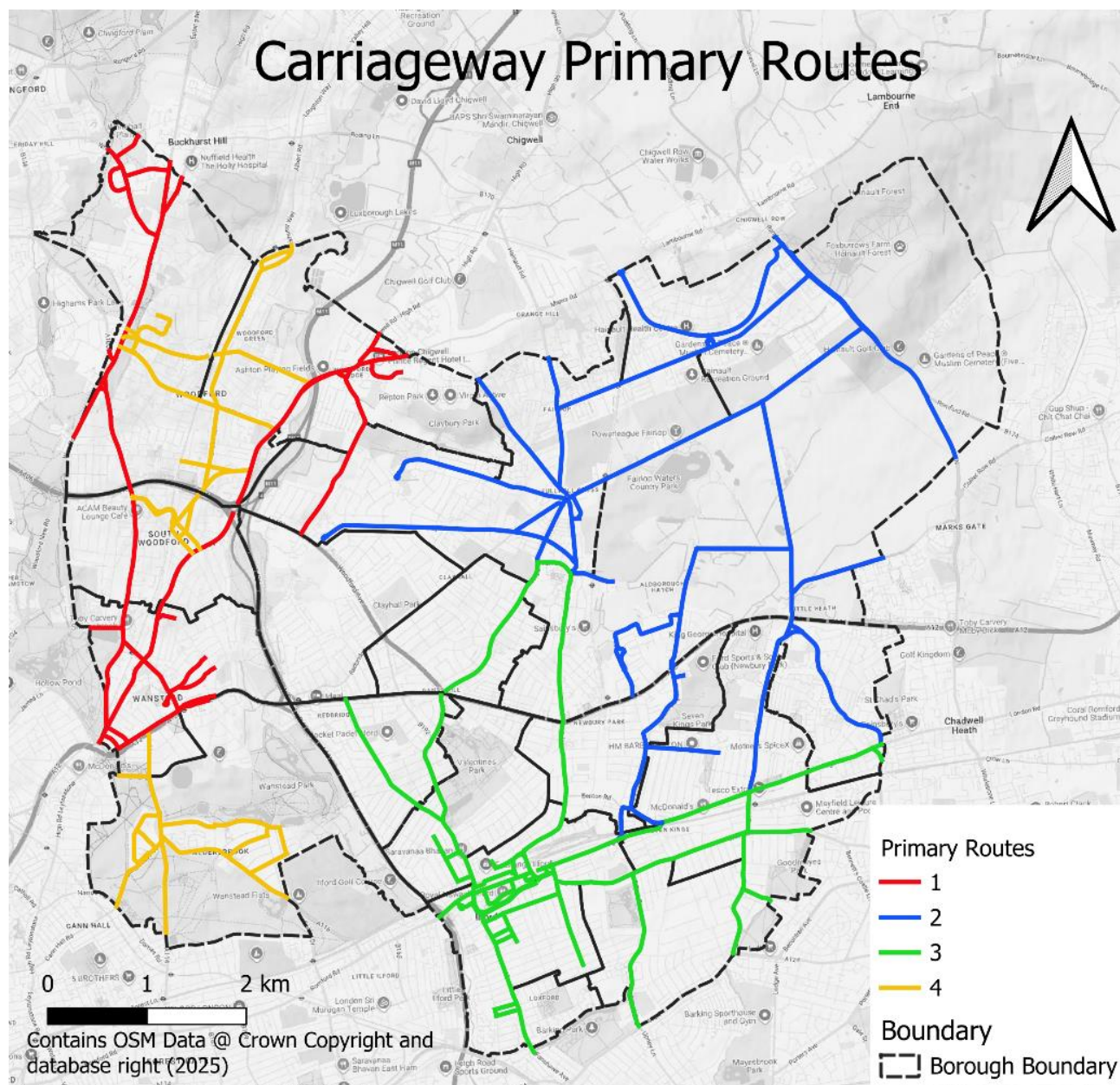


Figure 6: Carriageway primary gritting routes

Table 9: Carriageway primary gritting routes

Route	Road Name	Length (km)
1	Brook Road	0.319
1	Cambridge Park	0.905
1	Cambridge Road	0.254
1	Chigwell Road	0.594
1	Chigwell Road North	2.687
1	Chingford Lane	0.109
1	Cross Road	0.295
1	Epping New Road	0.494
1	Green Walk	0.106
1	Grove Park	0.507
1	Gwynne Park Avenue	0.432
1	Harrier Avenue	0.208
1	Hermon Hill	1.210
1	High Road Woodford Green	2.894
1	High Road Woodford green	0.397
1	High Street Wanstead	0.901
1	Hollybush Hill	1.096
1	Kingfisher Avenue	0.305
1	Lonsdale Road	0.209
1	Makepeace Road	0.177
1	Manor Road	0.479
1	New Wanstead	0.944
1	Newlands Road	0.454
1	Roding Lane North	1.882
1	Snaresbrook Road	0.321
1	The Avenue Wanstead	0.424
1	Whitehall Lane	0.453
1	Whitehall Road	1.025
1	Woodbine Place	0.212
1	Woodford New Rd (Gyratory)	0.062
1	Woodford New Road	0.671
1	Woodford Road	1.412
Total		22.438
2	Aldborough Rd South Ambulance St	0.093
2	Aldborough Road North	1.261
2	Aldborough Road South	1.999
2	Barley Lane	1.806
2	Baron Gardens	0.386
2	Billet Road	0.996
2	Cameron Road	0.358
2	Carlton Drive	0.115
2	Chadwell Heath Lane	1.641
2	Clayhall Avenue	1.898

Route	Road Name	Length (km)
2	Craven Gardens	0.751
2	Fairlop Road	0.560
2	Fencepiece Road	1.444
2	Forest Road	3.435
2	Freemantle Road	0.453
2	Fulwell Avenue	1.908
2	Hainault Road	2.198
2	High Street Barkingside	0.679
2	Kielder Close	0.097
2	Latchford Place	0.090
2	Little Heath Slip	0.185
2	Manford Way	2.467
2	Marks Gate Road Whalebone Ln North	0.678
2	Meads Lane	0.729
2	New North Road	2.908
2	Oaks Lane	1.822
2	Painters Road	0.950
2	Romford Road	3.492
2	Staggart Green	0.141
2	Starch House Lane	0.246
2	Station Road Barkingside	0.305
2	Tomswood Hill	1.361
2	Virginia Gardens	0.064
Total		37.516
3	Albert Road	0.790
3	Argyle Road	0.509
3	Beal Road	0.147
3	Chapel Rd including Bus Terminal	0.380
3	Clements Road	0.536
3	Cleveland Road	0.312
3	Cranbrook Road (south)	2.158
3	Cranbrook Road Nth	1.649
3	Dudley Road	0.201
3	Goodmayes Lane	1.259
3	Goodmayes Road	0.403
3	Green Lane	2.856
3	Griggs Approach	0.332
3	Hainault Street	0.183
3	Handforth Road	0.046
3	Havelock Street	0.278
3	High Rd (Chapel Rd to Clements	0.110
3	High Rd (Clements Rd-Griggs Ap	0.215
3	High Rd Ilford Police stn to	3.743

Route	Road Name	Length (km)
3	High Rd Pedestrian Precinct	0.280
3	Horns Road	1.502
3	Hunter Road	0.234
3	Ilford Hill	0.429
3	Ilford lane	1.536
3	Khartoum Road	0.227
3	Ley St/ Griggs App mini Rbout	0.066
3	Ley Street	1.890
3	Mayesbrook Road	0.303
3	Myrtle Road	0.073
3	Riches Road	0.158
3	Rutland Road	0.200
3	South Park Drive	1.597
3	Station Road Ilford	0.189
3	Sunnyside Road	0.882
3	Tanners Lane	0.362
3	The Drive Ilford	1.603
3	Uphall Road	0.064
3	Wangey Road	0.155
3	Winston Way (East End)	0.164
3	Winston Way (Eastbound)	0.756
3	Winston Way (westbound)	0.946
3	York Road	0.150
Total		29.873
4	Aldersbrook Road	1.482
4	Arran Drive	0.275
4	Belgrave Road Wanstead	0.816
4	Blake Hall Road	1.082
4	Broadmead Road	1.812
4	Broomhill Road	0.143
4	Buckhurst Way	0.406
4	Bush Road	0.302
4	Centre Road	0.976
4	Cherry Tree Rise	0.397
4	Cowslip Road	0.390
4	Daisy Road	0.133
4	Dover Road	0.457
4	Empress Avenue Wanstead	0.423
4	George Lane	1.594
4	Gordon Road	0.525
4	Harts Grove	0.664
4	Hillside Avenue	0.942
4	Johnson Road	0.158

Route	Road Name	Length (km)
4	Lake House Road	0.818
4	Latchett Road	0.209
4	Maybank Road	0.544
4	Mulberry Way	0.348
4	Northumberland Avenue	0.674
4	Snakes Lane East	1.021
4	Snakes Lane West	0.884
4	St Barnabas Road	1.169
4	Victoria Road Sth Woodford	0.223
4	Wanstead Park Avenue	0.095
4	Windsor Road	0.264
4	Woodlands Avenue	0.554
Total		19.780
TOTAL		109.61

The secondary gritting routes are shown in **Figure 7** below, with the details in **Table 10**:

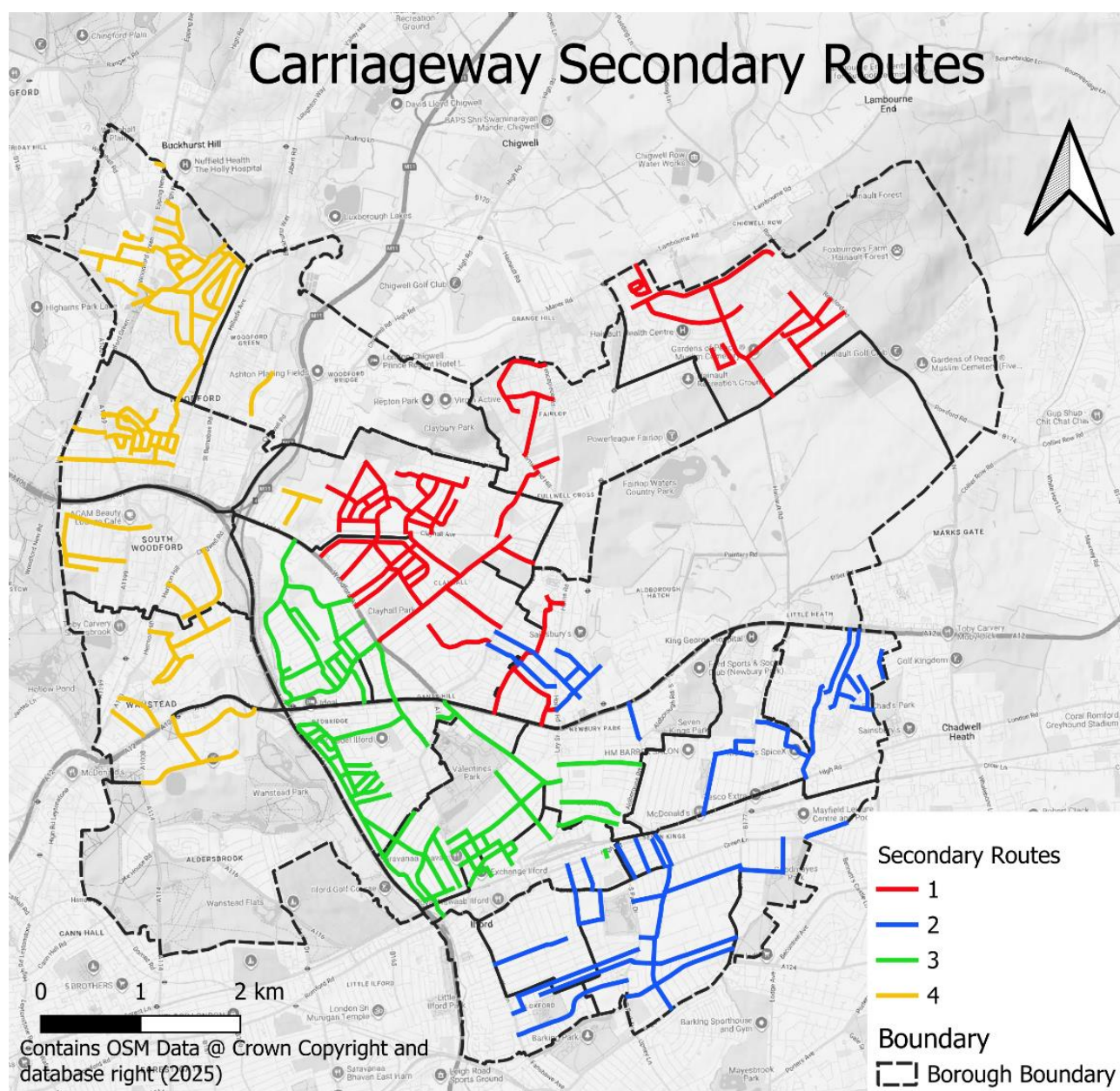


Figure 7: Carriageway secondary routes

Table 10: Carriageway secondary routes

Route	Road Name	Length (km)
1	Abbotswood Gardens	0.580
1	Aragon Drive	0.479
1	Arrowsmith Road	1.067
1	Ashurst Drive	1.278
1	Atherton Road	0.510
1	Barnardo Drive	0.070
1	Basildon Avenue	0.349
1	Beattyville Gardens	0.670
1	Beaver Road	0.124
1	Brocket Way	1.556
1	Caterham Avenue	0.647
1	Chadacre Avenue	0.286
1	Civic way	0.180
1	Colvin Gardens	0.613
1	Cottesmore Avenue	0.263
1	Couchmore Avenue	0.302
1	Elmbridge Road	0.683
1	Ewellhurst Road	0.379
1	Fairview Drive	0.299
1	Fairview Road	0.291
1	Falconer Road	0.146
1	Felstead Avenue	0.434
1	Fowler Road	0.589
1	Harewood Drive	0.373
1	Heathcote Avenue	0.299
1	Herent Drive	0.757
1	Huntsman Road	0.964
1	Hurstleigh Gardens	0.247
1	Kenwood Gardens	0.711
1	Kirkland Avenue	0.576
1	Lessingham Avenue	0.091
1	Longwood Gardens	1.524
1	Looe Gardens	0.133
1	Lord Avenue	0.781
1	Marlands Road	0.592
1	Marston Road	0.333
1	Merlin Grove	0.186
1	Mossford Green	0.380
1	Mossford Lane	0.788
1	Neville Road	0.239
1	Newcastle Avenue	0.155
1	Peregrine Road	0.620
1	Roebuck Road	0.349

Route	Road Name	Length (km)
1	Roundaway Road	0.100
1	Rowland Crescent	0.241
1	Rushden Gardens	0.673
1	Springfield Drive	0.741
1	Stoke Avenue	0.194
1	Stradbroke Grove	1.505
1	Strafford Avenue	0.540
1	The Glade	0.506
1	The Lowe	0.594
1	Tudor Crescent	0.752
1	Tunstall	0.199
1	Uppark Drive	0.101
1	Wensleydale Avenue	0.734
1	Werneth Hall Road	0.271
Total		29.048
2	Abbotsford Road	0.425
2	Ardwell Avenue	0.440
2	Ashburton Avenue	1.164
2	Birkbeck Road	0.213
2	Bishop Avenue	0.168
2	Blackbush Avenue	0.342
2	Braemore Road	0.797
2	Brian Road	0.686
2	Brockenhurst Gardens	0.144
2	Brook Road	0.361
2	Buckingham Road	0.316
2	Buntingbridge Road	0.336
2	Canon Avenue	0.222
2	Chase Lane	0.283
2	Christie Gardens	0.432
2	Connaught Road	0.252
2	Dawlish Drive	1.074
2	Douglas Road	0.283
2	Elmstead Road	0.283
2	Esher Road	0.312
2	Eton Road	1.284
2	Golfe Road	0.233
2	Gordon Road	0.333
2	Grove Road	0.962
2	Hamilton Avenue	0.713
2	Hathaway Gardens	0.266
2	Hazeldene Road	0.333
2	Highbury Gardens	0.359

Route	Road Name	Length (km)
2	Loudoun Avenue	0.227
2	Loxford Lane	1.268
2	Mayfield Road	0.420
2	Meadway	0.753
2	New Road	0.335
2	Percival Gardens	0.212
2	Percy Road	0.369
2	Perkins Road	0.139
2	Perrymans Farm Road	0.605
2	Priestley Gardens	0.317
2	Seven Kings Road	0.331
2	Somerville Road	0.829
2	South Park Road	0.287
2	Stains Road	0.981
2	Veronique Gardens	0.140
2	Vine Gardens	0.110
2	Water Lane	0.881
2	Westwood Road	0.609
2	Winsor Road	0.751
Total		22.579
3	Adelaide Road	0.256
3	Ambleside Gardens	0.259
3	Babbacombe Gardens	0.359
3	Balfore Approach	0.153
3	Balfour Road	0.651
3	Bathurst Road	0.152
3	Beehive Lane North	0.570
3	Beehive Lane South	0.543
3	Belgrave Road	1.144
3	Benton Road	0.604
3	Bramley Crescent	0.191
3	Brisbane Road	0.845
3	Canterbury Gardens	0.605
3	Carlisle Gardens	0.155
3	Chelmsford Gardens	0.277
3	Chichester Gardens	0.214
3	Cobbetts Avenue	0.083
3	College Gardens	0.191
3	Coventry Road	1.163
3	Danehurst Gardens	0.365
3	De Vere Gardens	0.537
3	Exeter Gardens	0.347
3	Falmouth Gardens	1.073

Route	Road Name	Length (km)
3	Grangeway Gardens	0.217
3	Granville Road	0.257
3	Highcliffe Gardens	0.258
3	Highlands Gardens	0.361
3	Ilford Fire Station	0.056
3	Keswick Gardens	0.310
3	Lincoln Gardens	0.262
3	Lodge Hill	0.113
3	Mansfield Road	0.566
3	Mill Road	0.224
3	Morland Road	0.297
3	Myrtle Road	0.077
3	Northbrook Road	0.783
3	Park Avenue	0.216
3	Perth Road	1.446
3	Redbridge Lane East	1.167
3	Ridgeway Gardens	0.275
3	Ripon Gardens	0.223
3	Rochester Gardens	0.221
3	Roding Lane South	1.757
3	Thorold Road	0.135
3	Torquay Gardens	0.441
3	Truro Gardens	0.079
3	Vicarage Lane	0.602
3	Vista Drive	0.412
3	Wakefield Gardens	0.158
3	Wanstead Lane	1.160
3	Wanstead Park Road	2.201
3	Wards Road	0.814
3	Wellesley Road	0.450
3	Wells Gardens	0.114
3	Woodford Bridge Road	0.640
3	York Road	0.304
Total		27.335
4	Abbotford Gardens	0.490
4	Arlington Road	0.130
4	Arundel Drive	0.234
4	Ashbourne Avenue	0.278
4	Beresford Drive	0.191
4	Beverly Crescent	0.239
4	Bressey Grove	0.635
4	Broadwalk	0.595
4	Cavendish Avenue	0.250

Route	Road Name	Length (km)
4	Charnwood Drive	0.395
4	Charteris Road	0.529
4	Chelmsford Road	0.590
4	Cheyne Avenue	0.299
4	Chiltern Way	0.287
4	Churchfields	0.540
4	Colvin Gardens	0.227
4	Dale Gardens	0.327
4	Darnley Road	0.247
4	Danehurst Gardens	0.192
4	Elmcroft Avenues	0.917
4	Empress Avenue	0.309
4	Fairlawn Drive	0.177
4	Finchingfield Avenue	0.480
4	Forest Approach	0.783
4	Forest Way	0.526
4	Glebelands Avenue	0.212
4	Gordon Road	0.385
4	Grosvenor Road	0.463
4	Harold Road	0.161
4	High View Road	0.505
4	Inmans Row	0.181
4	Kensington Drive	0.377
4	Kings Avenue	0.981
4	Knighton Drive	0.510
4	Malvern Drive	0.437
4	Monkhams Avenue	0.845
4	Monkhams Drive	0.690
4	Monkhams Lane	1.135
4	Mornington Road	0.613
4	Nelson Road	0.216
4	Nightingale Lane	0.593
4	Oak Lane	0.138
4	Onslow Gardens	0.632
4	Orchard Lane	0.090
4	Overton Drive	1.011
4	Princes Avenue	0.586
4	Queen's Avenue	0.240
4	Redbridge Lane West	0.867
4	Rokeby Gardens	0.344
4	Shenfield Road	0.213
4	Spratt Hall Road	0.501
4	St Albans Crescent	0.276

Route	Road Name	Length (km)
4	St Albans Road	0.279
4	St Mary's Avenue	0.331
4	St Ronan's Crescent	0.404
4	Stanstead Road	0.080
4	Summit Drive	0.315
4	Sydney Road	0.329
4	The Broadway	0.092
4	The Dell	0.215
4	The Glade	0.332
4	The Green	0.198
4	The Green Woodford Green	0.100
4	The Vale	0.142
4	Tilney Drive	0.070
4	Woodland Way	0.466
4	Woodside Road	0.409
4	Worcester Crescent	0.731
Total		27.563
Total		106.525

Carriageway Resilience Routes are shown in **Figure 8** below, with details shown in **Table 11**:

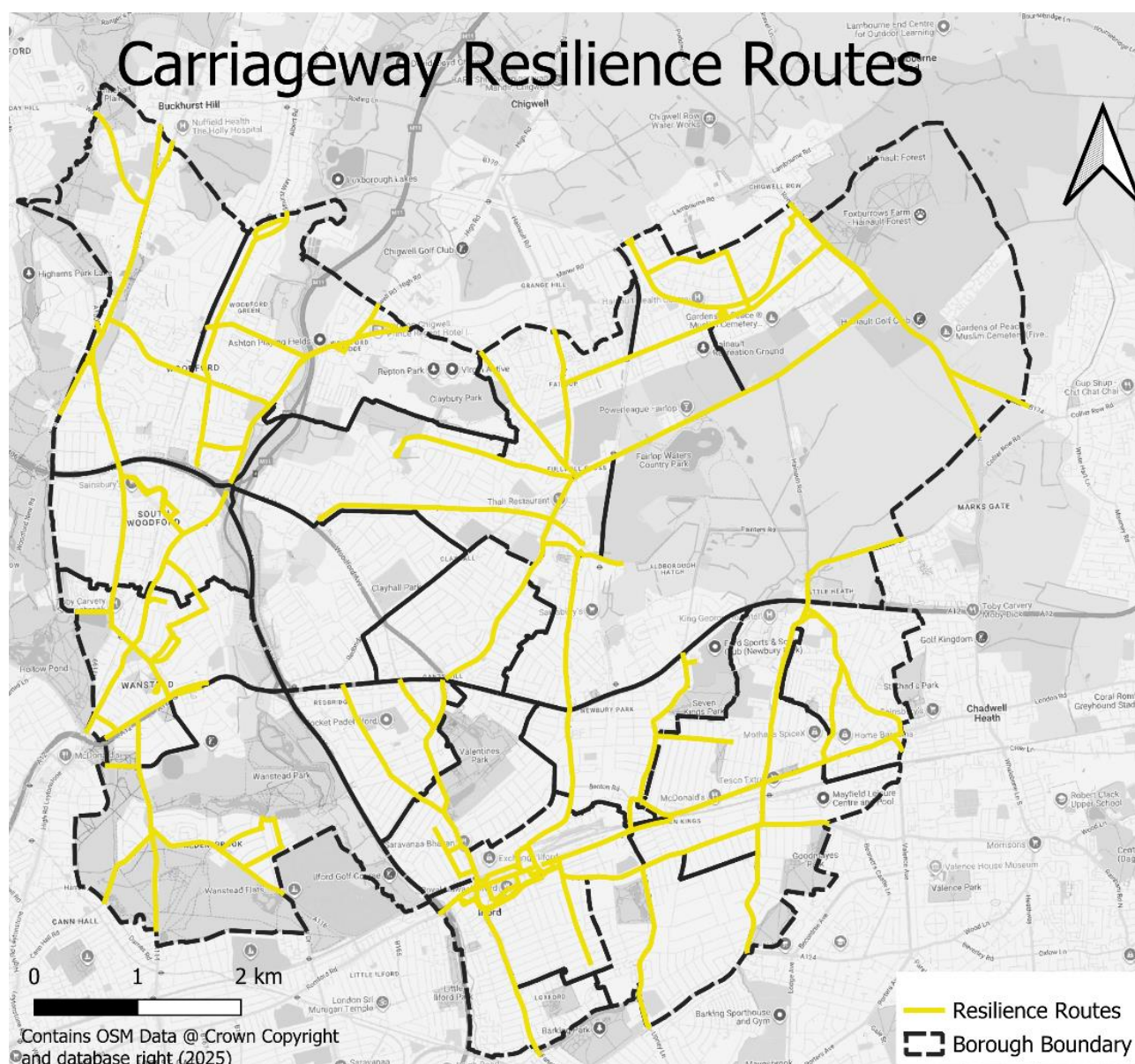


Figure 8: Carriageway resilience routes

Table 11: Carriageway resilience routes

Route	Road Name	Length (km)
1	Brocket Way	0.836
1	Cambridge Park	0.905
1	Cambridge Road	0.254
1	Chigwell Road	0.594
1	Chigwell Road Nth	2.687
1	Chingford Lane	0.109
1	Colvin Gardens	0.227
1	Cross Road	0.295
1	Epping New Road	0.494
1	Green Walk	0.105
1	Harrier Avenue	0.208
1	Hermon Hill	1.21
1	High Road Woodford green	0.397
1	High Road Woodford Green	2.894
1	High Street Wanstead	0.901
1	Hollybush Hill	0.186
1	Kingfisher Avenue	0.305
1	Makepece Road	0.177
1	Manor Road	0.479
1	New Wanstead	0.944
1	Roding Lane North	0.095
1	Snaresbrook Road	0.321
1	The Lowe	0.601
1	Whitehall Road	1.025
1	Woodbine Place	0.212
1	Woodford New Rd (Gyratory)	0.062
1	Woodford New Road	0.671
1	Woodford Road	1.412
Total		18.606
2	Aldborough Rd South Ambulance St	0.093
2	Aldborough Road South	1.999
2	Barley Lane	1.806
2	Baron Gardens	0.386
2	Billet Road	0.996
2	Cameron Road	0.358
2	Carlton Drive	0.115
2	Chadwell Heath Lane	1.641
2	Clayhall Avenue	1.898
2	Fencepiece Road	1.444
2	Forest Road	3.435
2	Freemantle Road	0.453
2	Fulwell Avenue	1.908
2	Grove Road	0.97

Route	Road Name	Length (km)
2	Hainault Road	0.248
2	High Street Barkingside	0.679
2	Kielder Close	0.097
2	Latchford Place	0.09
2	Little Heath Slip	0.185
2	Manford Way	2.467
2	Marks Gate Rd Whalebone Ln Nth	0.678
2	Meads Lane	0.729
2	New North Road	2.908
2	Romford Road	3.492
2	Romford Road	0.835
2	Staggart Green	0.141
2	Station Road Barkingside	0.305
2	Tomswood Hill	1.361
Total		31.717
3	Argyle Road	0.509
3	Beal Road	0.147
3	Beehive Lane	0.549
3	Chapel Rd including Bus Terminal	0.38
3	Clements Road	0.536
3	Cranbrook Road (south)	2.158
3	Cranbrook Road Nth	1.649
3	Goodmayes Lane	1.259
3	Goodmayes Road	0.403
3	Green Lane	2.856
3	Griggs Approach	0.332
3	Hainault Street	0.183
3	Hainault Street	0.001
3	Handforth Road	0.046
3	Havelock Street	0.278
3	High Rd (Chapel Rd to Clements	0.11
3	High Rd (Clements Rd-Griggs Ap	0.215
3	High Rd Ilford Police stn to	3.743
3	High Rd Pedestrian Precinct	0.28
3	Horns Road	1.502
3	Ilford Hill	0.429
3	Ilford lane	1.536
3	Ley St/ Griggs App mini Rbout	0.066
3	Ley Street	1.635
3	Ley Street	0.059
3	Riches Road	0.158
3	South Park Drive	1.597
3	Station Road Ilford	0.189

Route	Road Name	Length (km)
3	Sunnyside Road	0.882
3	Tanners Lane	0.362
3	The Drive Ilford	1.603
3	Wangey Road	0.155
3	Winston Way (East End)	0.164
3	Winston Way (Eastbound)	0.756
3	Winston Way (westbound)	0.946
3	York Road	0.15
Total		27.823
4	Aldersbrook Road	1.482
4	Arran Drive	0.275
4	Blake Hall Road	1.082
4	Broadmead Road	1.812
4	Buckhurst Way	0.406
4	Bush Road	0.302
4	Centre Road	0.976
4	Charnwood Drive	0.399
4	Cherry Tree Rise	0.397
4	Cowslip Road	0.094
4	Daisy Road	0.133
4	Dover Road	0.457
4	Elmcroft Avenue	0.505
4	Empress Avenue Wanstead	0.423
4	George Lane	1.594
4	Gordon Road	0.251
4	Grosvenor Road	0.435
4	Hillside Avenue	0.942
4	Lake House Road	0.818
4	Latchett Road	0.209
4	Latchett Road	0
4	Maybank Road	0.176
4	Nightingale Lane	0.339
4	Northumberland Avenue	0.122
4	Snakes Lane East	1.021
4	St Barnabas Road	1.169
4	Wanstead Park Avenue	0.095
Total		15.914
Total		94.060

APPENDIX B – FOOTWAY GRITTING

Table 12 below shows the roads where the footways will be gritted 30 metres before and after the features, following carriageway gritting:

Table 12: Footway gritting roads

Road Name	Ward	Area	Features
Clements Road	Ilford Town	South	Redbridge Central Library Ilford Town Centre
Cranbrook Road	Barkingside	North	Gants Hill Library Gants Hill Town Centre Cranbrook Surgery Sahara House Burnham House
Craven Gardens	Fairlop	North	Fullwell Cross Library
Fullwell Cross Roundabout	Fairlop	North	Fullwell Cross Library Barkingside Town Centre
Goodmayes Lane	Mayfield	South	Goodmayes Library Goodmayes Lodge
Grove Road	Chadwell	East	Keith Axon Centre
Headley Approach	Barkingside	North	Gants Hill Library
Cleveland Road	Clementswood	South	Ilford Medical Centre
Cleveland Road	South Woodford	West	Glebelands Practice
Eastwood Road	South Woodford	West	Southdene Surgery The Shrubberies Medical Centre
Park Road	Wanstead Park	West	Aldersbrook Library
Philpot Path	Clementswood	South	Redbridge Central Library Ilford Town Centre
Snakes Lane West	Monkhams	West	Woodford Green Library Woodford Court
Spratt Hall Road	Wanstead Village	West	Wanstead Library
Barley Lane	Seven Kings	East	Goodmayes Hospital King George Hospital
Roding Lane South	Clayhall	North	Spire London East
Orchard Close	Wanstead Village	West	Wanstead Hospital 2 & 3 Orchard Close
Rodney Road	Wanstead Village	West	Wanstead Hospital 2 & 3 Orchard Close
Nelson Road	Wanstead Village	West	Wanstead Hospital
Makepeace Road	Wanstead Village	West	Wanstead Hospital
Winston Way	Ilford Town	South	Ilford Police Station Ilford Town Centre
Eastwood Road	Seven Kings	East	Eastwood Lodge
Green Lane	Ilford Town	South	Ilford Town Centre
Green Lane	Goodmayes	South	Green Lane Town Centre 626 Green Lane
Mossford Green	Fullwell	North	Barkingside Police Station
Cambridge Park	Wanstead Village	West	Wanstead Town Centre Cambridge House Nursing Home The Chestnuts
Chadwick Road	Ilford Town	South	Ilford Town Centre
Chapel Road	Ilford Town	South	Ilford Town Centre
Fairlop Road	Fullwell	North	Barkingside Town Centre
Fencepiece Road	Fairlop	North	Barkingside Town Centre Fullwell Cross Health Centre
Footpath From Clements Road Under Winston Way To Iford	Ilford Town	South	Ilford Town Centre

Road Name	Ward	Area	Features
Lane East Then To Ilford Lane West			
Footpath From Roden Street To Ilford Hill	Ilford Town	South	Ilford Town Centre
Footpath From Woodford Avenue To Ethelbert Gardens	Barkingside	North	Gants Hill Town Centre
George Lane	South Woodford	West	South Woodford Town Centre Victoria House
High Road	Goodmayes	South	Seven Kings Library
Griggs Approach	Ilford Town	South	Ilford Town Centre
Harrier Avenue	Wanstead Park	West	Wanstead Town Centre
High Road	Churchfields	West	Southwoodford Library And Gym South Woodford Town Centre South Woodford Health Centre
High Road	Ilford Town	South	Ilford Police Station Ilford Town Centre Caretech
High Road	Chadwell	East	Chadwell Heath Town Centre
Ilford Hill	Ilford Town	South	Ilford Town Centre
Ilford Lane	Loxford	South	Ilford Town Centre Ilford Lane Surgery Ryedale Care Centre
Kingfisher Avenue	Wanstead Village	West	Wanstead Town Centre
Ley Street	Ilford Town	South	Ilford Town Centre Seven Kings School Russell Lodge
Mulberry Way	South Woodford	West	South Woodford Town Centre
Oakfield Road	Ilford Town	South	Ilford Town Centre
Perth Road	Valentines	South	Gants Hill Town Centre
Riverdene Road	Loxford	South	Ilford Town Centre
Roden Street	Loxford	South	Ilford Town Centre
Tanners Lane	Fairlop	North	Barkingside Town Centre
Tesco Entrance	Aldborough	East	Barkingside Town Centre
The Shrubberies	South Woodford	West	South Woodford Town Centre Southdene Surgery The Shrubberies Medical Centre
Tomswood Hill	Fairlop	North	Barkingside Town Centre Fullwell Cross Health Centre Tomswood Lodge
Woodbine Place	Wanstead Village	West	Wanstead Town Centre
Havelock Street	Ilford Town	South	Ilford Town Centre
Loxford Lane	Loxford	South	Loxford School Ilford Lane Surgery Havilah Homes
Lodge Hill	Clayhall	North	Beal High School
Woodford Bridge Road	Clayhall	North	Beal High School
Charter Avenue	Newbury	East	Seven Kings School
Mallards Road	Churchfields	West	Woodbridge High School
St Barnabas Road	Churchfields	West	Woodbridge High School
Pedley Road	Goodmayes	South	Mayfield School
Oaks Lane	Aldborough	East	Oaks Park High School

Road Name	Ward	Area	Features
Cricklefield Place	Ilford Town	South	Ark Isaac Newton Academy
Mornington Road	Monkhams	West	Trinity Catholic High School Greenmantle
Aldersbrook Road	Wanstead Park	West	Aldersbrook Medical Centre St Martins
St Margarets Road	Wanstead Park	West	Aldersbrook Medical Centre
Redbridge Lane East	Clayhall	North	The Rebridge Surgery
Windermere Gardens	Clayhall	North	The Rebridge Surgery
Ethelbert Gardens	Barkingside	North	Gants Hill Medical Centre
The Drive	Cranbrook	North	The Drive Surgery The Beeches Delrose House Arlington House Mig House Residential Care Home St Josephs Rest Home
Clayhall Avenue	Fullwell	North	Clayhall Clinic Birchwood
Kenwood Gardens	Barkingside	North	Heathcote Primary Care Cente Kenwood Medical Centre 2 Southwood Gardens
Granville Road	Valentines	South	Granville Medical Centre
Coventry Road	Valentines	South	St Clements Surgery Coventry House Karma Liv-In
Bathurst Road	Valentines	South	St Clements Surgery
High Street	Fairlop	North	Fullwell Cross Library Barkingside Police Station Barkingside Town Centre
Balfour Road	Ilford Town	South	Balfour Road Surgrrery
Adelaide Road	Ilford Town	South	Balfour Road Surgrrery
Perrymans Farm Road	Aldborough	East	Newbury Group Practise
York Mews	Valentines	South	York Road Surgery
York Road	Valentines	South	York Road Surgery
Wanstead Place	Wanstead Village	West	Wanstead Place Surgery
Netley Road	Aldborough	East	The Palms Medical Centre
Fullwell Avenue	Fullwell	North	The Fullwell Avenue Surgery
Calne Avenue	Fullwell	North	The Fullwell Avenue Surgery
Albert Road	Clementswood	South	Ilford Medical Centre
Cameron Road	Seven Kings	East	The Doctor's House
High Street	Wanstead Village	West	Wanstead Town Centre The Evergreen Surgery
Gantshill Crescent	Barkingside	North	Kenwood Medical Centre
Abbey Road	Aldborough	East	Perrymans ABBEY CARE COMPLEX SERVITE HOUSES LTD
Abbotsford Road	Goodmayes	South	The Lodge
Airthrie Road	Goodmayes	South	Airthrie Homes
Aldborough Road South	Newbury	East	Maple House The Old Registry
Argyle Road	Valentines	South	Argyle Road (Short Break) Oakwood Lodge
Arlington Gardens	Cranbrook	North	Arlington House
Blenheim Avenue	Cranbrook	North	Sahara House
Blueberry Close	Monkhams	West	Our House Elderberries
Blythswood Road	Seven Kings	East	Acorn Care Home

Road Name	Ward	Area	Features
Breamore Road	Goodmayes	South	Oakwood House
Broadmead Road	Churchfields	West	Our House Elderberries
Broomhill Road	Goodmayes	South	Broomhill Lodge
Cecil Road	Loxford	South	Carelink
Chadwell Heath Lane	Chadwell	East	Dunelm Nursing Home Chadwell House
Churchfields	Churchfields	West	Churchfields Nursing Home
Clandon Road	Goodmayes	South	Clandon House
Clarence Avenue	Cranbrook	North	Vi And John Rubens House
Endsleigh Gardens	Cranbrook	North	Endsleigh House
Epping New Road	Monkhams	West	Winterton House
George Davies Lodge	Barkingside	North	George Davis Lodge
Glengall Road	Monkhams	West	83 Glengall Road Our House
Station Road	Chadwell	East	Chadwell Heath Town Centre
Hazeldene Road	Goodmayes	South	The Lodge
Herent Drive	Clayhall	North	Stoneleigh Court
Hermon Hill	Wanstead Village	West	Apasenth Lodge Forest Dene
Station Road	Ilford Town	South	Ilford Town Centre
Highbury Gardens	Goodmayes	South	67 - 69 Highbury Gardens
Homesdale Close	Wanstead Village	West	Homesdale
Lavender Place	Loxford	South	Seabrooke Manor Residential And Nursing Home
Little Heath	Chadwell	East	Rowallan House
Madeira Grove	Bridge	North	Green Lodge Care Home
Manford Way	Hainault	East	Pinewood
Mansfield Road	Valentines	South	Ashwood House
Natal Road	Loxford	South	Carelink
Nigel Mews	Loxford	South	Fernways
Nightingale Lane	Wanstead Village	West	Westleigh Court
Norfolk Road	Seven Kings	East	The Beeches (Seven Kings)
Northbrook Road	Valentines	South	Northbrook Care Home
Roxy Avenue	Chadwell	East	Gable Court
Seymour Gardens	Cranbrook	North	33 Seymour Gardens Mig House Residential Care Home
Springfield Drive	Aldborough	East	Springfield Care Centre
Sylvan Road	Wanstead Village	West	16 Sylvan Road Forest Dene
Tavistock Road	South Woodford	West	Cleveland House
Tiptree Crescent	Fullwell	North	Birchwood
Tring Close	Aldborough	East	Cranvale
Valentines Road	Valentines	South	Rosewood Lodge
Vaughan Gardens	Cranbrook	North	Burnham House
Wanstead Lane	Cranbrook	North	Rook Lodge
Wellesley Road	Valentines	South	Khaya Project
Wycombe Road	Barkingside	North	Beehive
Harts Grove	Monkhams	West	Harts House Nursing Home

APPENDIX C – SALT BIN LOCATIONS

Salt bin locations are shown on **Figure 9** below and the detailed location is outlined in **Table 13** below:

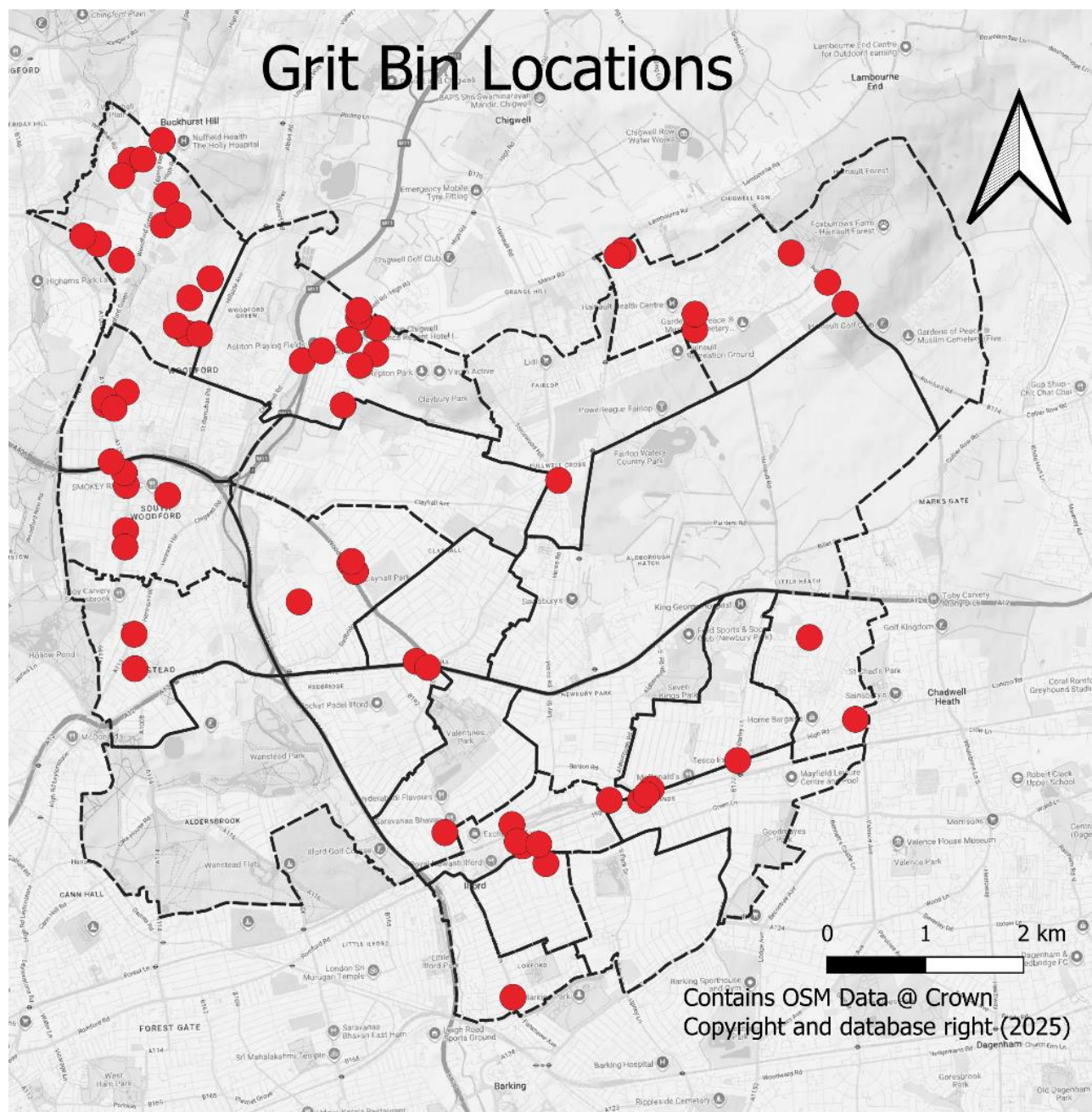


Figure 9: Current grit bin locations

Table 13: Grit bins location detail

No	Location	Ward
1	ALBERT ROAD outside No.128 Dr Surgery	Clementswood
2	ALMONDS AVENUE outside No.6 between LC No.1	Monkhams
3	BANCROFT AVENUE junction with Almonds Avenue	Monkhams
4	BRAMSTON CLOSE junction with Disabled Centre	Hainault
5	BROADWALK junction with The Drive	South Woodford
6	CHIGWELL ROAD junction with Snakes Lane East	Bridge
7	CHIGWELL ROAD junction with Waltham Road	Bridge
8	CLARENCE AVENUE outside toilets	Cranbrook
9	CRAVEN GARDENS Fulwell Cross Roundabout	Fairlop
10	CROFT LODGE CLOSE Nr Snakes LW opposite LC 1	Monkhams
11	CROSS ROAD junction with Waller Close	Bridge
12	CUNNINGHAM CLOSE In Car Park area	Chadwell
13	DELL CLOSE junction with The Dell	Monkhams
14	ETHELBERT GARDENS opposite Dental Practice	Barkingside
15	FOREST APPROACH on 1st Roundabout	Churchfields
16	GEORGE LANE junction with Daisy Road	South Woodford
17	GRIGGS APPROACH junction with Winston Way roundabout on island	Ilford Town
18	GRIGGS APPROACH junction with Ley Street on island	Ilford Town
19	GROVE HILL High Rd by St name plate	South Woodford
20	GROVE ROAD junction with Lincoln Rd opposite LC No.5	Bridge
21	GWYNNE PARK AVENUE junction with Deacon Way	Bridge
22	HERENT DRIVE junction with Woodford Avenue	Clayhall
23	HERENT DRIVE junction with Parkview Gardens	Clayhall
24	ALDBOROUGH ROAD SOUTH s/o No2 Lombard Avenue	Seven Kings

No	Location	Ward
25	HIGH ROAD junction with Barley Lane	Seven Kings
26	HIGH ROAD junction with Wangey Road	Chadwell
27	HIGH ROAD 7 KINGS Near Health Centre LC138	Goodmayes
28	HIGH ROAD 7 KINGS Down alley between 643/645	Seven Kings
29	HIGH ROAD ILFORD outside Lynton House	Ilford Town
30	HIGH RD WOODFORD junction with St Albans Road	Churchfields
31	HIGH RD WOODFORD GREEN opposite Birch Court by Footpath	Monkhams
32	ILFORD LANE outside Polyclinic	Loxford
33	LINDEN CRESCENT opposite LC 41	Monkhams
34	KELVEDON WAY junction with Chigwell Road by link	Bridge
35	KNIGHTON DRIVE junction with Forest Way	Monkhams
36	LORD AVENUE junction with Gardner's	Clayhall
37	MALVERN DRIVE junction with Worcester Crescent	Monkhams
38	MANOR ROAD junction with Chigwell Road	Bridge
39	MANSFIELD ROAD outside No.19 by wall	Wanstead Park
40	MONKHAMS AVENUE junction with Broad Oak	Monkhams
41	NEW WANSTEAD junction with High Street	Wanstead Village
42	OWEN GARDENS near 27/52 end by field	Bridge
43	PEAKETON AVENUE junction with Falmouth Gardens opposite LC 1	Clayhall
44	PHILPOT PATH Footpath by School by Gate 4	Clementswood
45	PURLEIGH AVENUE junction with Meadway Ave on corner	Bridge
46	ROMFORD ROAD junction with Forest Road	Hainault
47	ROMFORD ROAD junction with Fowler Road	Hainault
48	ROMFORD ROAD junction with Northern Rd outside 47 Romford Rd	Aldborough
49	SEVEN KINGS STATION opposite station on traffic island	Seven Kings

No	Location	Ward
50	SNAKES LANE WEST junction with Charteris Avenue	Monkhams
51	SPRATT HALL ROAD Police Station	Wanstead Village
52	ST ALBANS CRESCENT outside No. 2	Churchfields
53	STAGGART GREEN junction with Manford Way	Hainault
54	SUNSET AVENUE junction with Glade Road	Monkhams
55	SUNSET AVENUE junction with Parkmore Close	Monkhams
56	SUNSET AVENUE junction with The Albany	Monkhams
57	TILNEY DRIVE junction with Epping New Road	Monkhams
58	THE PINES off Whitehall Road	Monkhams
59	THE FRIARS Outside No 9	Hainault
60	VICARAGE ROAD Flank wall No 13	Bridge
61	WOODFORD ROAD opposite George Lane	South Woodford
62	WOODFORD ROAD by LC 64 near Tavistock Rd	South Woodford
63	WOODLAND WAY junction with The Glade	Monkhams
64	THE ACORNS on green outside 9 to 14	Hainault

APPENDIX D – SELF-HELP GUIDANCE

Clearing Snow and Ice from Pavements and Public Spaces

This guide is designed to help you to act in a neighbourly way by safely clearing snow and ice from pavements and public spaces.

Will I be held liable if someone falls on a path I have cleared?

There is no law preventing you from clearing snow and ice on the pavement outside your property, pathways to your property or public spaces.

It is very unlikely that you would face any legal liability, if you are careful, and use common sense to ensure that you do not make the pavement or pathway clearly more dangerous than before. People using areas affected by snow and ice also have responsibility to be careful themselves.

What can I do to help clear snow and ice from pavements and public spaces?

Practical advice from highway engineers is given below. This is not a comprehensive list.

Start early: it is much easier to remove fresh, loose snow compared to compacted ice that has been compressed by people walking on it.

Do not use hot water. This will melt the snow, but may replace it with black ice, increasing the risk of injury.

- Be a good neighbour: some people may be unable to clear snow and ice on paths leading to their property or indeed the footway fronting their property. Snowfall and cold weather pose difficulties for them gaining access to and from their property or walking to the shops.
- If shovelling snow, consider where you are going to put it, so that it does not block people's paths, or block drainage channels. This could shift the problem elsewhere.
- Make a pathway down the middle of the area to be cleared first, so you have a clear surface to walk on. Then you can shovel the snow from the centre to the sides.
- Spreading some salt on the area you have cleared will help to prevent any ice forming. Table salt or dishwasher salt will work but avoid spreading on plants or grass as it may damage them. A few grams (a tablespoon) for each square metre you clear should work. The salt found in salting bins will be needed for keeping roads clear.

Particular care and attention should be given to steps and steep gradients to ensure snow and ice is removed. You might need to apply additional salt to these areas.

- Use the sun to your advantage. Removing the top layer of snow will allow the sun to melt any ice beneath; however, you will need to cover any ice with salt to stop it refreezing overnight.
- If there is no salt available, then a little sand or ash is a reasonable substitute. It will not have the same de-icing properties as salt but should offer grip under foot.

Where can I find out more information about what I can do in an emergency?

There are various websites which offer information on how to prepare for the winter period.

The MET office has a useful guide which can be found here:

<http://www.metoffice.gov.uk/learning/get-ready-for-winter>

For residents, borough specific information can be found here:

<https://www.redbridge.gov.uk/roads-and-pavements/gritting-and-snow/>

The Preparing for Emergencies web pages on Direct.Gov contain useful information on how people can prepare for the impacts of all emergencies:

<https://www.gov.uk/government/news/winter-weather-uk-government-response>

Why is the Government publishing this information?

During the severe winter in 2009/10, many people across the country worked very hard to keep our transport network open. This included many members of the public who cleared pavements and public spaces around their homes. Some people, however, were deterred from taking action to clear pavements and other public spaces because they feared that they might be sued.

An independent review of the transport sector's response to the severe weather of 2009/10 recommended that the DfT should publish this note on good practice for members of the public in clearing snow and ice from footways and other public spaces. The Local Government Association published a report on behalf of Councils which reached the same conclusion.