LONDON BOROUGH OF BARKING & DARENHAM

My Place

WINTER MAINTENANCE SERVICE PLAN 2017/18

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1. INTRODUCTION

1.1 The Winter Maintenance Service Plan outlines the details and means in how the Council intends to achieve the objectives and standards identified in the Council’s Winter Maintenance Service Policy Statement. These documents are prepared by the highways network management section and distributed annually via the Council’s website.

2. RESPONSIBILITIES

2.1 The reactive highways sections are commissioned to deliver all aspects of the Winter Maintenance Service on behalf of the Service Head for Highways and Network Management.

3. PREAMBLE TO WINTER MAINTENANCE SERVICE

3.1 Operational Winter Maintenance Service Period

3.1.1 The London Borough of Barking & Dagenham’s operational Winter Maintenance Service Period will run from 1st November to 31st March. This period is based on experience over the last 5 years; however contingency plans are in place for any salting requirements outside of this period should the service need to be commenced early or extended.

3.2 Winter Maintenance Service Activities

3.2.1 All winter maintenance activities will be undertaken using the Winter Maintenance Service Policy Statement and Winter Maintenance Service Plan.

3.3 Proposed Amendments to Salting Route Network

2.2 Any amendments to the salting route network must be approved by the Service Head for Highways and Network Management.

3.4 Salt Purchase and Storage

3.4.1 Salt will be purchased by the Council and stored at Frizlands Depot. As of October 2009 the council has use of a purpose built indoor salt barn capable of storing over 2000 tons of salt, as well as additional storage facilities off site.

3.5 Salt Quantities

3.5.1 The quantity of salt that is required at the beginning of the operational winter maintenance service period is approximately 1500-2000 tonnes. Salt stocks shall be returned to this level on or before 1 November each year. The minimum
quantity of salt to be in stock at any time through the operational winter maintenance service period is 500 tonnes. Minimum quantities of salt are based on past experience and are calculated to be sufficient for one month’s precautionary salting and for seven days snow clearance.

3.6 Monitoring of Salt

3.6.1 The Winter Maintenance Officer (WMO - duties of which are carried out by the Operational Service Manager ‘reactive highways’):

- Ensure that the required quantity of salt has been provided at the beginning of the Winter Maintenance Service Period.
- Monitor Salt Stocks
- Ensure that minimum salt quantities are available throughout the Winter Maintenance Service Period.
- Ensure that suitable arrangements for further supplies of salt are in place to maintain the minimum quantity.
- Checking the saline content of the salt.

3.7 Salt Spreading Plant

3.7.1 Plant used for the winter maintenance service activities will be controlled by the DLO Service Manager. Plant may be dedicated entirely to winter maintenance; however, the use of dual purpose vehicles with demountable bodies is encouraged where ever possible. These vehicles are available for routine maintenance work when not spreading salt. All salt spreaders should conform to BS1622 and be speed regulated.

3.7.2 The Council also has four hydraulically operated snow ploughs which have been specially adapted for fitment to our current four gritting demountable Lorries. These ploughs are hydraulically operated from within the vehicles cab, allowing the height and direction of snow throw off to be controlled for varying carriageway widths. The council is also looking in to investing in route programmable satellite navigation devices for each lorry to improve the route monitoring as well as improving road safety issues while gritting and ploughing. Each year a comprehensive review is carried out to assess what new plant requirements may be required for the proceeding season.

3.8 Frizlands Depot

3.8.1 Frizlands depot will be the centre for winter maintenance service activities. To plan for any unforeseen circumstances the Council has invested heavily in improving the Winter Maintenance Service. As well as a new 2000 tonne purpose build salt storage dome build in the Frizlands depot all gritting vehicles have had extensive upgrades and additions added to improve the service while increasing safety for road users and staff.
3.9 Labour / Stand by rosters

3.9.1 Labour / drivers will be drawn from the Highways Reactive Maintenance Response Team and other Council labour as necessary. Stand by rosters will be compiled by the Operational Service Manager for the whole Winter Maintenance Service Period. Stand by rosters will be compiled one month before the start of the Winter Period.

4. WEATHER INFORMATION

4.1 Weather Forecasts

4.1.1 During the operational winter maintenance service season, the Council will obtain detailed weather forecasts from the meteorological office (or comparable provided) using the “Open Road” service which is specifically designed to cover winter maintenance service activities by highway authorities. The service provides:-

- 24 hour weather forecasting for Barking & Dagenham
- 2-5 day weather forecasting for Barking & Dagenham
- 24 hour consultancy service by telephone.
- Internet access to weather forecasts and satellite data.

4.2 Winter Maintenance Service Duty Officer

4.2.1 A member of the Highways Reactive Maintenance will be available 24 hours a day, throughout the Winter Maintenance Service Period, acting as the Winter Maintenance Service Officer (WMO). He / she is responsible for receiving weather forecasts, monitoring the weather situation and issuing any instructions to salt/plough.

4.2.2 A list of Winter Maintenance Officers can be found in appendix V.

4.3 Communication with other Organisations

4.3.1 Instructions for salting action (including no action decisions) will be relayed to neighbouring highway authorities. These authorities are:-

- London Borough of Newham
- London borough of Havering
- London borough of Redbridge
- Road Management Services (A13)
- W S P Ltd (Area 21)

4.4 Unexpected Weather Conditions
4.4.1 Where actual weather conditions locally differ from the forecast, it is essential that this is reported to Highways Reactive Maintenance or Winter Maintenance Officer immediately. Upon receipt of details of unexpected weather conditions, local instructions may be issued, depending on the conditions reported and other available information.

5. PRECAUTIONARY SALTING

5.1 Precautionary Salting Routes

5.1.1 There are two categories of precautionary salting route which will be salted during the Winter Maintenance Service Period, where instructions to carry out this function are given. These are as follows:

a) Primary Precautionary Salting Routes.
   Routes devised from roads or sections of roads which qualify for precautionary salting on a routine basis as a result of current policy. This will include the pedestrian precinct in Barking Town Centre. Details of Primary Precautionary Salting Routes are show in Appendix A.

b) Secondary Precautionary Salting Routes.
   Routes devised from roads or sections of road which lie beyond those included into primary routes that will receive precautionary salting under extreme weather conditions. This will include footbridges, steps and subways. Details of Secondary Precautionary Salting Routes are shown in Appendix B

5.2 Planning of Precautionary Salting Routes

5.2.1 Routes are designed so that the treatment time (the time taken from leaving the depot through to completion of treatment of the route) at a salt spread rate of 10 or 20g/m² takes no longer than 2 hours 30 minutes. The start time for each route must be such that the salting will be completed between the times given in the instructions. Salting at 40g/m² is generally only necessary when snow has settled on the carriageway. If instructions are issued for salting at 40g/m² and only if the relevant salting vehicle cannot complete the route in one run at this spread rate, that the route may be covered in two runs provided that the first run covers the whole route at 20g/m² between the times given in the instructions.

5.2.2 All parts of the carriageway, including roundabouts and other complicated junctions, e.g. multi laned and extra wide junctions, shall be salted.

5.3 Instructions for Precautionary Salting of Primary and Secondary Routes

5.3.1 Appendix C shows the normal format of Precautionary salting instructions for primary routes which will be issued by the WMO. Instructions for precautionary salting of secondary routes will be issued if widespread ice is expected to form or if road surface temperatures are expected to fall below freezing for a prolonged period and hoar frost is expected.
6. **EMERGENCY SALTING**

6.1 **Emergency Precautionary Salting**

6.1.1 Any significant change to the previously issued weather forecast may require emergency precautionary salting of routes. The WMO will be alerted of any changes, usually by the Met Office and will assess the situation and issue emergency instructions if salting is required.

6.2 **Emergency Post Salting**

6.2.1 Emergency post salting of primary and secondary routes may be required at any time following reports from the police or other sources of widespread unexpected wintry conditions. The WMO will assess the situation and may issue emergency instructions relating to primary and secondary routes.

6.2.2 Local reports of ice or frost affecting any road may be received at any time. Post salting in response to local reports of ice or frost on any road (including those on primary routes) will be instructed by the WMO or Highways Officers.

6.2.3 Post salting will be carried out using the same priorities as precautionary salting. In the event of all resources being fully committed on salting precautionary salting routes at the time instructions for other roads are issued, treatment will be deferred until the relevant resources become available.

6.2.4 Instruction for salting in response to burst water mains, reported from any source, will be issued by Highways officers. Costs will be recovered from the water company.

7. **Snow clearance**

7.1 **Instructions for Snow Clearance**

Snow clearance instructions will be issued when the depth of lying snow on the carriageway exceeds 50mm. Snow clearance will be carried out using snow ploughs, earth moving plant and tipper trucks.

8. **SEVERE WEATHER CONDITIONS**

8.1 **Ice & Snow Emergencies**

8.1.1 During longer periods of severe and persistent icing or heavy snowfall, the WMO or senior officers in Highways may declare an ice or snow emergency covering all or part of the borough. In this event all resources will be concentrated on the affected area. Pre-planned salting or emergency salting will be carried as required. In addition Highways officers shall co-ordinate resource to those areas outside of the normal precautionary salting routes. During normal working hours...
Highways offices at Frizlands Depot will be the central control for all winter maintenance works. When this office is unmanned the Emergency Control Room in Barking will act as a clearing house for information during ice emergencies, receiving information and passing it on to the (Winter Maintenance Officer) WMO or the IRU (Incident Response Unit).

9 **ROADSIDE SALT BINS**

9.1 **Location of Roadside Salt Bins**

9.1.1 Salt bins shall be located at known hazardous locations (approximately 64 bins located around the borough). Their primary use is for the Councils staff for emergency onsite treatment. The Council does not widely publish the location of all highway grit bins due to salt theft in periods of high demand.

9.2 **Maintenance and Refilling of Roadside Salt Bins**

9.2.1 Highways officers shall arrange for existing salt bins to be replaced, maintained and refilled during the operational winter maintenance period. Salt bins will be inspected monthly. In times of prolonged wintry conditions salt bins will be inspected weekly.

9.3 **Summer Storage of Roadside Salt Bins**

9.3.1 At the end of the Operational winter maintenance period, salt bins should be emptied and taken to Frizlands Depot. Residual salt will be recovered for future use or disposed of as appropriate.

10 **PRE-WINTER ACTIVITIES**

10.1 **Pre-season checks**

10.1.1 One month prior to the beginning of the operational Winter Maintenance Period, Managers in Highways and Network Management

- The necessary salting and snow clearance plant is available and fit for use.
- Weather forecast contracts with the Met Office (or comparable company) are in place.
- The required stockpiles of salt are in place.
- Winter maintenance ‘call out’ rosters are in place and all operatives are aware of their duty periods.
- All primary and secondary routes have been checked and a ‘dry run’ carried out.
- Borough Emergency Control Centre (BECC) has been informed of weather forecast and call out procedures.
10.2 Training for staff

10.2.1 All staff involved in the decision-making or operational process for winter maintenance must attend or have obtained a City & Guilds in Winter Maintenance.

11 A13 WINTER MAINTENANCE

11.1 A13 Winter Maintenance Arrangements

11.1.1 Currently Road Management Services carryout the gritting service for the A13 between the Roding Bridge and Wennington on behalf of transport for London. This includes all slip roads, footbridges and subways along the route.

*Appendix D shows a map of the route.*  
*Appendix E lists the footbridges and subways along the route.*
Appendix A

**Primary Route 1**

1. Start gritting at Dagenham Avenue
2. Turn right into Goresbrook Road (turn around at the end)
3. Proceed back along Goresbrook Road
4. Turn left into Coombes Road
5. Turn right into Downing Road
6. Turn left into Heathway
7. Turn left into Hedgemans Road
8. Follow into Woodward Road
9. Turn left into Lodge Avenue (stop gritting at the roundabout)
10. Proceed to Renwick Road, start gritting
11. Turn around at Box Lane
12. Proceed back to Lodge Avenue
13. Turn left into Longbridge Road
14. Turn right into to Fanshawe Avenue (turn around at boundary)
15. Turn right into Queens Relief Road
16. Turn right into Harts Lane
17. Turn right into Gurney Close (follow into Harts Lane)
18. Turn right into Queens Relief Road
19. Turn right into London Road
20. Turn left into Highbridge Road
21. Turn around and proceed back up Highbridge Road
22. Turn right into London Road
23. Turn right into Abbey Road
24. Turn right into Gascoigne Road (turn around at the end)
25. Proceed into Broadway
26. Turn right into Clockhouse Avenue (turn around at the end)
27. Turn right into North Street
28. Turn left into London Road (Bus Lane)
29. Turn around at roundabout and proceed back up London Road
30. Follow into Linton Road
31. Turn right into Cambridge Road
32. Turn left into Station Parade
33. Turn around at roundabout and proceed back up Station Parade
34. Turn right into Cambridge Road
35. Turn left into Linton Road
36. Follow into London Road
37. Turn left into North Street
38. Turn left into St Pauls Road
39. Turn right into Ripple Road
40. Turn right into King Edwards Road (turn around at the end)
41. Turn right into Ripple Road
42. Turn left into Upney Lane
43. Follow into South Park Drive (turn around at boundary)
44. Proceed back down Upney Lane
45. Turn left into Ripple Road
46. Turn around at Lodge Avenue roundabout and proceed back up Ripple Road
47. Turn left into Movers Lane
48. Proceed into River Road
49. Turn left into Bastable Avenue (turn around at end)
50. Left into River Road, follow into Renwick Road
51. Turn right into Choats Road (turn around at width restriction)
52. Turn right into Thames Road
53. Turn left into Marine Drive
54. Turn right into Galleons (turn around at end)
55. Turn left into Thames Road
56. Turn left into River Road
57. Turn left into Longreach Road
58. Turn left into Creek Road
59. Turn left into Thames Road
60. Turn right into River Road and proceed into Movers Lane
61. Turn left into Ripple Road
62. Proceed into St Pauls Road and follow into Abbey Road
63. Turn right into Queens Relief Road
64. Turn left into Longbridge Road
65. Turn right into Lodge Avenue
66. Turn left into Woodward Road
67. Proceed into Hedgemans Road
68. Stop gritting at the Heathway and proceed back to depot
Appendix B
Appendix C

Primary Route 2

1. Start at Civic Centre roundabout
2. Turn left into Wood Lane
3. Proceed into Longbridge Road
4. Turn right into Becontree Avenue
5. Turn right into Valance Avenue
6. Proceed into Porters Avenue
7. Turn left into Lodge Avenue
8. Turn left into Woodward Road
9. Turn right into Gale Street (turn around at width restriction)
10. Proceed gritting to Porters Avenue
11. Turn right into Porters Avenue
12. Proceed into Valance Avenue
13. Turn left into Becontree Avenue
14. Turn left into Longbridge Road
15. Proceed into Wood Lane
16. Turn left into Green Lane
17. Turn left into Valance Avenue
18. Turn left into Becontree Avenue
19. Proceed to end and turn around
20. Turn left into Bennetts Castle Lane
21. Turn around at Longbridge Road
22. Turn left into Green Lane
23. Turn right in Mayfield
24. Turn right into Greenside
25. Turn left into Green Lane
26. Turn left into Whalebone Lane South
27. Turn right into Collier Row Road
28. Stop gritting at boundary
29. Turn left into Romford Road
30. Turn left into Whalebone Lane South and start gritting at boundary
31. Turn right into Rose Lane
32. Turn left into Billett Road
33. Turn left into Padnell Road
34. Turn left into Rose Lane
35. Turn right into Billett Road
36. Turn right into Whalebone Lane North
37. Turn right into Selinas Lane
38. Turn left into Valance Avenue
39. Turn around at Seabrook Road and back up Valance Avenue into Station Road
40. Turn right onto High Road
41. Turn right into Station Road
42. Turn right into Wangey Road
43. Turn right onto High Road
44. Proceed along High Road to boundary and turn around
45. Proceed back along High Road
46. Turn right into Mill Lane
47. Turn right into Whalebone Lane North
48. Turn left into Wood Lane
49. Turn left at Civic Centre roundabout
50. Stop gritting at boundary and proceed to Crow Lane
51. Start gritting at boundary
52. Stop gritting at Whalebone Lane South
53. Return to depot
Appendix E

Primary Route 3

1. Turn left out of depot
2. Follow road to Rush Green lights, start gritting
3. Turn right into Dagenham Road
4. Turn right into Rainham Road North
5. Turn around at Civic Centre Roundabout
6. Turn right into Oxlow Lane
7. Turn right into Heathway
8. Turn right into Wood Lane
9. Turn right into Marston Avenue
10. Turn left into Stansgate Road
11. Turn left into Rusholme Road
12. Turn left into Frizlands Lane
13. Turn right into Bull Lane
14. Turn left into Rainham Road North
15. Turn left into Frizlands Lane
16. Turn right into Oxlow Lane
17. Turn right into Marston Avenue
18. Turn left into Wood Lane
19. Turn left into Heathway
20. Turn left into Oxlow Lane
21. Turn right into Rainham Road South
22. Turn left into Aldborough Road
23. Turn left into Manor Road
24. Turn left into Goring Road
25. Turn left into Norton Road
26. Turn left into Auriel Avenue
27. Turn right into Western Avenue
28. Turn right into Auriel Avenue
29. Turn left into Western Avenue
30. Turn left into Rainham Road South
31. Turn left at Bull Roundabout, proceed to boundary
32. Turn round at boundary, proceed back down Rainham Road South
33. Turn right into Rainham Road South
34. Turn left into Reede Road
35. Follow into Parsloes Avenue
36. Turn right into Wood Lane
37. Turn Right into Keppal Road
38. Turn left into Parsloes Avenue
39. Turn left into St Georges Road
40. Turn right into Beverley Road
41. Turn right into Heathway
42. Follow into Chequers Lane
43. Turn round at crossing
44. Turn left onto A1306
45. Turn left into Choats Manor Way
46. Turn left into Choats Road
47. Turn around at Chequers Lane
48. Follow Choats Road to width restriction (and turn around)
49. Turn left into Choats Manor Way
50. Turn left into Morrison Road (turn around at end)
51. Follow into Cook Road and back out
52. Turn left onto A1306 (turn around at Mill House)
53. Loop around McDonalds
54. Proceed back down A1306
55. Turn around at Heathway
56. Proceed back up A1306
57. Turn left into Ballards Road, proceed to roundabout
58. Turn right into Siviter Way
59. Follow into Church Elm Lane
60. Turn left into Heathway (follow into Chequers Lane)
61. Turn right into Merrielands Crescent
62. Turn right onto A1306
63. Turn left into Heathway
64. Turn right into Oxlow Lane
65. Turn right into Wantz (follow into Pondfield Road)
66. Turn left into Reede Road
67. Turn left into Rainham Road South
68. Follow back to Depot
Appendix G

Secondary Route 1

1. Travel to Parsloes Avenue
2. Turn left in to Haskard Road
3. Turn left in to Wren Road
   Turn around at Gale Street
4. Turn left in to Ilchester Road
5. Turn right in to Fitzstephens Road
6. Turn left in to Marlborough Road
   Turn right in to Lodge Ave, left in to Longbridge Road
7. Turn right into Gainsborough Road
8. Turn right in to Butler Road and left back in to Gainsborough Road
   Turn left in to Longbridge Road and proceed to Upney Lane
9. Turn left in to Westrow Drive
10. Turn left in to Cavendish Gardens
11. Turn left in to Brockdish Gardens
12. Turn left in to Woodbridge Road
13. Turn left in to Hepworth Gardens
14. Turn right in to Westrow Drive
15. Turn right in to Cavendish Gardens again
16. Turn right in to Stratton Drive
   Turn left in to Longbridge Road and left in to Upney Lane
17. Turn left in to Beccles Drive around roundabout
18. Turn left in to Cavendish Gardens
19. Turn right in to Stratton Drive
20. Turn right in to Westrow Drive
   Turn right in to Upney Lane
21. Turn right in to Sandringham Drive
22. Turn left in to Cavendish Gardens
23. Turn right in to Sudbury Road
   Turn left in to Longbridge Road
24. Turn left in to Hulse Avenue
25. Turn left in to Rosslyn Road
26. Turn left in to Wilmington Gardens
27. Turn left in to Buller Road
28. Turn right in to Hulse Avenue
29. Turn left in to Salisbury Road
   Turn left in to Upney Lane
30. Turn left in to Levitt Road
31. Turn right in to Hulse Avenue
32. Turn right in to Rosslyn Road
33. Turn right in to Cecil Avenue
34. Turn left in to Somerby Road
35. Turn right in to Salisbury Avenue
36. turn right in to Station Parade
37. Turn left in to Cecil Avenue
38. Turn right in to Somerby Avenue
39. Turn left in to Salisbury Avenue
40. Turn left in to Hulse Avenue
41. Turn left in to Buller Road
42. Turn right in to Wilmington Gardens
   Turn left in to Longbridge Road and proceed in to Queens Relief Road
43. Turn left in to North Street
44. Turn left in to London Road
45. Turn left in to James Street
46. Turn left in to Linton Road
47. Turn left in to George Street
48. Proceed in to Whiting Avenue
49. Turn left in to North Street
   Turn left in to Relief Road
50. Turn right in to Hertford Road and turn around at the end
51. Return through Highbridge Road
52. Turn left over Town Quay
53. Turn right in to Abbey Road and turn around at the end
   Proceed to Ripple Road
54. Turn right in to Blake Avenue
55. Turn left in to Sisley Road
56. Turn right in to Blake Avenue
57. Turn right in to Ripple Road
58. Turn Left in to Lambourne Road
59. Turn right in to Dawson Avenue
60. Turn left in to Ripple Road
61. Turn right in to Tudor Road
62. Turn left in to Sisley Road
63. Turn right in to Eastbury Road and turn around Eastbury House
64. Turn right in to Sisley Road
65. Turn left in to Tudor Road and follow in to Stuart Road
66. Turn right in to Dawson Avenue and stop gritting at Upney Lane
Appendix I

Secondary Route 2

Travel to Rose lane
1  Turn right in to Thatches Grove
2  Turn right in to Rose Lane
3  Turn right in to Lawn Farm Grove
4  Turn left in to Thatches Grove
   Proceed to Whalebone Lane North and turn right in to Mill Lane
5  Turn right in to East Road
6  Turn right in to Pemberton Gardens
7  Turn left in to Whalebone Lane North
8  Turn left in to Geneva Gardens
9  Turn right in to East Road
10 Turn right in to Adelaide Gardens
11 Turn left in to Yew Tree Gardens
12 Turn left in to Melbourne Gardens
13 Turn right in to East Road and turn around at end
14 Turn right in to Portland Gardens
15 Turn right in to Hatherway Gardens
16 Turn right in to Tolworth Gardens
17 Turn right in to East Road
   Turn right in to Mill Lane and turn left in to High Road
18 Turn left in to Hainault Road
19 Turn left into Whalebone Grove
   Proceed to Selina’s Lane and follow in to Burnside Road
20 Turn left in to Mayfield Road
21 Follow in to Kemp Road
22 Turn left in to Cornshaw Road
23 Turn right in to Freshwater Road
24 Turn right in to Lymington Road
25 Turn right in to Green Lane
26 Turn left in to Bonham Road
27 Turn left in to Becontree Avenue
28 Turn left in to Walnut Tree Road
   Turn right in to Green Lane
29 Turn right in to Grafton Road
   Turn left in to Green Lane
30 Turn right in to Grafton Road
   Turn right in to Wood Lane
31 Turn right in to Bonham Road
   Turn left in to Green Lane
32 Turn left in to Dunkeld Road
33 Follow in to Stevens Road
34 Turn right in to Mayesbrook Road
35 Follow in to Fuller Road
36 Turn left in to Campden Crescent
37 Turn right in to Lindisfarne Road
38 Follow in to Waldegrave Road
39 Turn right in to Green Lane and right in to Bennetts Castle Lane
40 Turn right in to Lindisfarne Road
41 Turn left in to Campden Crescent
42 Turn right in to Lichfield Road
43 Turn left in to Campden Crescent
44 Turn right in to Bryce Road
45 Turn left on to Longbridge Road and left in to Bennetts Castle Lane
46 Turn right in to Valence Wood Road
47 Turn left in to Wood Lane and proceed to Rush Green Road
48 Turn right in to Philip Avenue
49 Follow in to Thorntons Farm Avenue
50 Follow in to Legon Avenue
51 Turn right in to Fourth Avenue
52 Turn left in to Dagenham Road
53 Turn left in to Rush Green Road
54 Turn in to Leonard Avenue
55 Turn right in to Horace Avenue
56 Turn left in to Legon Avenue
57 Turn left in to Fourth Avenue
58 Turn left in to Leonard Avenue
59 Turn right in to Horace Avenue
60 Turn left in to Philip Avenue
61 Turn right in to Rush Green Road and turn right in to Dagenham Road
62 Turn left into Gorseway
63 Turn left in to Lincoln avenue
64 Follow in to Gorseway
65 Turn right in to Laurel Crescent
66 Turn right in to Rose Glen
67 Turn right in to Gorseway
68 Turn left in to Dagenham Road
69 Turn right in to Park Drive
70 Turn left in to Bell Farm Avenue
71 Turn left in to Wheel Farm Drive
72 Turn right in to Highland Avenue
73 Turn left in to Hardie Road
Appendix J
Appendix K

Secondary Route 3

1 Travel to Manor Road
2 Grit Manor Road and turn around at end
3 Proceed to Rainham Road South
4 Turn right in to Leys Avenue and turn around at end
5 Proceed in to Ballards Road
6 Turn left in to Oval Road North
7 Follow in to Oval Road South
8 Turn right in to Crosby Road
9 Turn left in to Oval Road North
10 Follow in to Whitebarn Lane
11 Follow in to Broad Street
12 Turn right in to Heathway and left in to Hedgemans Road
13 Turn left in to Talbot Road
14 Follow in to Ford Road
15 Turn left in to Church Elm Lane and left in to Heathway
16 Turn right in to Goresbrook Road and right in to Dagenham Avenue
17 Turn left in to Hatfield Road
18 Turn left in to Lullington Road
19 Turn right in to Chaplin Road
20 Turn right in to Hedgemans Road
21 Turn right in to Hatfield Road
22 Turn right in to Lullington Road
23 Turn left in to Urswick Road
24 Turn left in to Langley Crescent
25 Turn right in to Gale Street and left in to Woodward Road and left in to Lodge Avenue
26 Turn left in to Maplestead Road
27 Follow in to Burnham Road
28 Turn left in to Stamford Road
29 Turn left in to Aconbury Road
30 Turn right in to Maplestead Road
31 Turn right in to Stamford Road
32 Turn left in to Woodward Road and right in to Lodge Avenue
33 Turn right in to Rugby Road
34 Turn left in to Waterbeach Road
35 Turn Right in to Rusper Road
36 Turn left in to Gale Street and left in to Porters Avenue
37 Turn left in to Waterbeach Road
38 Turn left in to Rugby Road
39 Follow in to Ivyhouse Road
40 Turn left in to Spurling Road
41 Turn left in to Parsloes Avenue
42 Turn left in to Meadow Road
43 Turn left in to Ivyhouse Road
44 Turn left in to Spurling Road
45 Follow in to Fanshawe Crescent
46 Turn left in to Parsloes Avenue
47 Turn left in to Monmouth Road
48 Turn left in to Halbutt Street
49 Turn right in to Oxlow Lane and right in to Heathway
50 Left in to Alibon Road and right in to Pondfield Road and right in to Hunters Hall Road
51 Turn left in to Croppath Road
52 Turn left in to Rogers Road
53 Turn right in to Reede Road
54 Turn right in to Sterry Road
55 Turn right in to Oxlow Lane
56 Turn right in to Croppath Road
57 Turn right in to Alibon Road
58 Turn right in to Heathway
59 Turn right in to Halbutt Street
60 Follow in to Raydons Road
61 Turn right in to Parsloes Avenue
62 Turn right in to Maxey Road
63 Turn left in to Beverley Road
64 Stop gritting Wood Lane
Appendix M

Resilience Route 1

1. Proceed to Robin Hood Longbridge Road **start gritting**
2. Turn right into Fanshawe Avenue (turn around at Boundary)
3. Turn right into Queens Relief Road
4. Turn right into Harts Lane
5. Turn right into Gurney Close (follow into Harts Lane)
6. Turn right into Queens Relief Road
7. Turn right into London Road
8. Turn left into Highbridge Road
9. Turn around and proceed back up Highbridge Road
10. Turn right into London Road
11. Turn right into Abbey Road
12. Turn right into Gascoigne Road (turn around at end)
13. Proceed into Broadway
14. Turn right into Clockhouse Avenue (turn around at end)
15. Turn right into North Street
16. Turn left into London Road (Bus Lane)
17. Turn around at roundabout and proceed back of London Road
18. Follow into Linton Road
19. Turn right into Cambridge Road (Bus Lane)
20. Turn left into Station Parade
21. Turn around at roundabout and proceed back up Station Parade
22. Turn right into Cambridge Road
23. Turn left into Linton Road (Bus Lane)
24. Follow into London Road
25. Turn left into North Street
26. Turn left into St Pauls Road
27. Turn right into Ripple Road
28. Turn right into King Edwards Road (turn around at end)
29. Turn right into Ripple Road
30. Turn left into Upney Lane (follow into South Park Drive turn around at boundary)
31. Proceed back down Upney Lane
32. Turn left into Ripple Road
33. Turn around at Lodge Avenue roundabout and proceed back up Ripple Road
34. Turn left into Movers Lane
35. Proceed into River Road
36. Turn left into Bastable Avenue (turn around at end)
37. Turn left into River Road, follow into Renwick Road
38. Turn right into Choats Road (turn around at width restriction)
39. Turn right into Thames Road
40. Turn left into Marine Drive
41. Turn right into Galleons Drive
42. Turn left into Thames Road
43. Turn left into River Road
44. Turn left into Longreach Road
45. Turn left into Creek Road
46. Turn left into Thames Road
47. Turn right into River Road and proceed into Movers Lane
48. Turn left into Ripple Road
49. Proceed into St Pauls Road and follow into Abbey Road
50. Turn right into Queens Relief Road
51. Turn left into Longbridge Road
52. Stop gritting at Robin Hood Longbridge Road
Appendix N

2017 - 2018 Emergency Resilience Routes

Resilience Route 1
### Appendix O

**Resilience Route 2**

1. **Start gritting at Green Lane**
2. Turn left into Valence Avenue
3. Turn left into Becontree Avenue
4. Proceed to end and turn around
5. Turn left into Bennetts Castle Lane
6. Turn around at Longbridge Road and back up to Green Lane
7. Turn left into Green Lane
8. Turn right into Mayfield Road
9. Turn right into Greenside
10. Turn left into Green Lane
11. Turn left into Whalebone Lane South
12. Turn right into Collier Row road (stop gritting at Boundary)
13. Turn left into Romford Road
14. Turn left into Whalebone Lane South and start gritting at Boundary
15. Turn right into Rose Lane
16. Turn left into Billet Road
17. Turn left into Padnall Road
18. Turn left into Rose Lane
19. Turn right into Billet Road
20. Turn right into Whalebone Lane North
21. Turn right into Selinas Lane
22. Turn left into Valence Avenue
23. Turn around at Wood Lane and back up Valence Avenue into Station Road
24. Turn right into High Road
25. Turn right into Station Road
26. Turn right into Wangey Road
27. Turn right into High Road
28. Proceed along High Road to boundary and turn around
29. Proceed back along High Road
30. Turn right into Mill Lane
31 Turn right into Whalebone Lane North
32 Turn left into Wood Lane
33 Turn left at Civic Centre roundabout
34 Stop gritting at boundary and proceed to Crow Lane
35 Start gritting at boundary
36 **Stop gritting at Whalebone Lane South and return to depot**
2017 - 2018 Emergency Resilience Routes

Resilience Route 2
Appendix Q

Resilience Route 3

1. Turn left at Depot
2. Follow road to Rush Green lights and **start gritting**
3. Turn right into Dagenham Road
4. Turn right into Rainham Road North
5. Turn around at Civic Centre roundabout
6. Back up Rainham Road North follow into Rainham Road South
7. Turn left at Bull roundabout, proceed to boundary
8. Turn around at boundary. Proceed back down Rainham Road South
9. Turn left at Bull roundabout into Ballards Road
10. Turn left on to New Road (A1306)
11. Turn around at Mill House boundary (back down A1306)
12. Turn left into Chequers Lane (turn around at B R Station)
13. Turn left on to A1306
14. Turn left into Choats Manor Way
15. Turn left Choats Road
16. Turn around at Chequers Lane
17. Follow Choats Road to width restriction and turn around
18. Turn left into Choats Manor Way
19. Turn left into Morrison Road (turn around at end)
20. Follow into Cook Road and back out
21. Turn left on A1306
22. Turn left into Ballards Rd (turn around & loop back around bus lane & Macdonalds)
23. Turn right into Ballards Road
24. Turn left into Siviter Way follow into Church Elm Lane
25. Turn left into Heathway
26. Turn left into Ford Road
27. Turn right into Church Elm Lane
28. Turn left into Ballards Road follow into Rainham Road South
29. Turn right into Aldborough Road
30. Turn left into Manor Road
31 Turn Left into Goring Road
32 Turn left into Norton Road
33 Turn left into Auriel Avenue
34 Turn right into Western Avenue (loop around Auriel Avenue)
35 Turn right into Rainham Road South
36 Turn left into Oxlow Lane
37 Turn left into Wantz Road (follow into Pondfield Road)
38 Turn left into Reede Road
39 Turn left into Rainham Road South
40 Turn left into Oxlow Lane
41 Turn right into Marston Avenue
42 Turn right into Stansgate Road
43 Turn left into Rusholme Avenue
44 Turn left into Frizlands Lane
45 Turn right into Bull Lane + left into Rainham Road North
46 Turn right into Frizlands Lane
47 Turn right into Oxlow Lane
48 Turn right into Marston Avenue
49 **Stop gritting at Wood Lane and return to Depot**
Appendix S

Resilience Route 4

1. Turn left out of depot and start gritting
2. Turn left into Wood Lane
3. Turn left into Heathway
4. Follow into Chequers Lane
5. Turn right into Merrielands Crescent
6. Turn right into A1306
7. Turn left into Heathway
8. Turn left into Wood Lane
9. Follow into Longbridge Road
10. Turn right into Becontree Avenue
11. Turn around at Neville Road – back down Becontree Avenue
12. Follow into Lodge Avenue
13. Stop gritting at Lodge Avenue roundabout and turn left at A13
14. Turn right into Renwick Road and start gritting
15. Turn around at Box Lane stop gritting on A13
16. Follow back to Lodge Avenue and start gritting
17. Follow until Longbridge Road
18. Turn right at Longbridge Road
19. Turn right into Porters Avenue
20. Turn left into Lodge Avenue
21. Turn left into Woodward Road follow into Hedgemans Road
22. Turn right into Heathway then left into Ford Road
23. Turn left into Broad Street
24. Turn right into Heathway
25. Turn left into Hedgemans Road and follow into Woodward Road
26. Turn right into Lodge Avenue
27. Turn right into Porters Avenue
28. Turn right into Gale Street (turn around at end)
29. Turn left into Goresbrook Road (turn around at end)
30. Follow through and turn left into Coombes Road
31. Turn right into Downing Road  
32. Turn left into Heathway  
33. Turn right into Ford Road  
34. Turn left into Church Elm Lane  
35. Follow into Dagenham Avenue  
36. Turn right into Goresbrook Road  
37. Turn right into Gale Street  
38. Turn right into Porters Avenue  
39. Turn right into Parsloes Avenue  
40. Follow into Reede Road  
41. Turn left into Pondfield Road follow into Wantz Road  
42. Turn left into Oxlow Lane  
43. Turn left into St Georges Road  
44. Turn right into Parsloes Avenue  
45. Turn right into Porters Avenue  
46. Turn right into Wood Lane  
47. Stop gritting at Civic Centre
Appendix T
### Appendix U

**LONDON BOROUGH OF BARKING & DAGENHAM**

**WINTER MAINTENANCE SERVICE**

<table>
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**Instructed Action:**

Routes: PRIMARY / SECONDARY / PRIMARYS & SECONDARYS

Note’s: 

[...]

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**Issued to:**

**Issued by:**

**Variations**

**Variation to Action:**

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**Time:**

**Date:**

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Appendix V

Winter Maintenance Officers
Appendix W

**Distribution List:**

Duty Winter Maintenance Service Crew Supervisor  
Borough Emergency Control Centre  
London Borough of Newham  
London Borough of Redbridge  
London Borough of Havering  
Road Management Services (A13)  
W S P Ltd (Area 21)