

BRACKNELL FOREST COUNCIL

HIGHWAYS WINTER SERVICE PLAN 2009 / 2010

**Anthony Radford-Foley
Highways Asset Manager
Environment, Culture and Communities
Bracknell Forest Borough Council
Time Square
Market Street
Bracknell
Berkshire
RG12 1JD**

**Tel: (01344) 352000
Fax: (01344) 351141**

Ext.

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HIGHWAYS WINTER SERVICE PLAN 2009/2010

1. INTRODUCTION

- 1.1 Our highways winter service operation is important in terms of both the economy and road safety. It attempts to ensure the safe movement of all highway users, including buses, cyclists and pedestrians. It is economically significant because of the delays that bad weather can cause.
- 1.2 The Highways Act 1980, Section 150 41(1)(A) and section 111 of the Railway Safety Act which places a duty on the authority to ensure, so far as reasonably practicable, that safe passage along a highway is not endangered by snow or ice.
- 1.3 Our highways winter service involves treating the highway in order to:
- Prevent ice from forming, “precautionary salting”
 - Melt ice and snow already formed, “post salting”
 - Remove snow
- 1.4 The Highways Winter Service Plan for 2009/10 gives details of how Bracknell Forest Council intends to achieve the standards identified in the Council’s Winter Service Policy Statement.
- 1.5 The highways winter service period for the winter 2009/10 runs from:
- Monday 26 October 2009, with contractor on standby from 9 November 2009 through to Monday 5 April 2010. This is a 21 week standby period.**

2. POLICY STATEMENT

- 2.1 It is the Council’s policy to attempt to maintain safe road surfaces at all times, so far as the resources available permit.
- 2.2 The objective of the Council is to initiate and manage procedures for dealing with weather emergencies, enabling as far as reasonably possible, the safe movement of all forms of traffic on the highway network throughout the Borough.
- 2.3 At times of predicted low temperatures the Council aims to provide a highways winter service enabling as far as is reasonably possible the safe movement of traffic on all A and B class roads and other well trafficked roads throughout the Borough (Primary routes).
- 2.4 The Council has agreed that its StreetCare Term Works Contractor will provide a standby and basic facility for a period of twenty one weeks. This will commence on the second week in November and finish the last week of March.
- 2.5 Pre-salting and snow clearance of the Primary routes will be carried out based on information received from the weather forecasting service. In certain circumstances, it may be necessary to apply salt after the formation of icy patches due to unforeseen circumstances such as burst water mains for example.

- 2.6 For precautionary salting, response and treatment times are 1 hour and 3 hours respectively.
- 2.7 When snow falls and accumulates on highway surfaces, ploughs and other appropriate machines will be used to remove snow and salt will be spread to help melt the snow and to prevent ice forming on the highway network.
- 2.8 As the Highway Authority, Bracknell Forest Council has a duty under section 150 of the Highways Act 1980 and section 111 of the Railway Safety Act 2003 to remove accumulations of snow:

“In particular, a highway authority are under a duty to ensure, so far as is reasonably practical, that safe passage along a highway is not endangered by snow or ice”.

- 2.9 This is not an absolute duty, given the qualification of “reasonably practical”. Given the scale of financial and other resources involved in delivering the Highways Winter Service and obvious difficulties in maintaining high levels of plant utilisation for specialist equipment, it is not practically possible either to:

- Provide the service on all parts of the network;
- Ensure running surfaces are kept free of ice or snow at all times, even on the treated parts of the network.

- 2.10 Roads will, therefore, be cleared of snow in descending order of priority until such time as all the Primary pre-salting routes are cleared. Then, if other roads are physically blocked or particularly hazardous and there is a need for access, further action will be taken.

- 2.11 The Council has agreed that the primary network of footways and cycleways in town centres, neighbourhood centres and outside schools and subway approaches will also be cleared of snow.

- 2.12 Salt bins are provided at specific locations where there is a need to undertake regular spot salting. The following criterion for the provision of salt bins has been adopted. Both points have to be met:

- (i) Salt bins will not be located on a primary salting route unless intended for use on an adjoining road, which is not on the primary salting route.
- (ii) Salt bins will only be placed along roads where there is a continuous steep and/or hazardous gradient of at least 10% (1 in 10) and where there are buildings in regular occupation nearby.

- 2.13 No further salt bins will be provided during the winter season 2009 – 2010.

- 2.14 The Bracknell Town Centre Winter Service Policy is attached as Appendix J.

3. ANNUAL REVIEW SUMMARY

- 3.1 The annual review of the highways winter service plan identified no significant changes to the Primary Pre-salting or Secondary salting networks or operational procedures.

- 3.2 Under the criteria for the placement of salt bins, 40 salt bins are provided by the Council at locations throughout the Borough. In addition the Council supports 14 salt bins on behalf of the Parish and Town Councils. Three of the requests logged

during the last winter season have been considered to meet the criteria for provision and have been added to the Salt Bin List.

- 3.3 Following the severe weather of February 2009 the Secretary of State for Transport requested the UK Roads Liaison Group (UKRLG) to review the lessons that could be learnt from the events of winter 2008/9. A report entitled Lessons from the Severe Weather February 2009 was subsequently published and lists 19 recommendations under 4 main themes of Winter Service Resilience, Preparation for and Operation of Winter Service, Communications and Procurement. A number of the recommendations listed fall outside the scope of the Councils Winter Service Plan, the Council has however given due consideration to the relevant recommendations and will act on them when appropriate to the circumstances.

4. HIERARCHY AND ROUTE PLANNING FOR CARRIAGEWAYS, FOOTWAYS AND CYCLEWAYS

- 4.1 The road hierarchy system within the Borough is defined in the Code of Practice for Maintenance Management July 2005.

Category 2: Principal "A" roads between strategic Primary Destinations for fast moving long distance traffic with little frontage access or pedestrian traffic.

Category 3a: Other important Principal "A" roads in the Borough in terms of volume of traffic carried, the proportion of heavy goods vehicles and their strategic function as principal links between settlements or within major urban areas.

Category 3b: Classified "B" roads and main distributor roads carrying significant volumes of traffic and public transport services. These are important thoroughfares distributing traffic from the strategic routes to residential or commercial areas.

Category 4: All other roads, being roads providing local access within and between residential and commercial areas.

- 4.2 The Primary precautionary salting network comprises all Category 2, 3a and 3b roads, and some heavily trafficked Category 4b roads, including major bus routes (exceeding 50 buses/day urban and 25 buses/day rural) and represents 39% of all highways in the Borough. The total length of the Primary salting network is 164 km (102 miles).
- 4.3 The Secondary salting network comprises Category 4a residential roads, bus routes, roads leading to schools and lightly trafficked rural roads, which become hazardous if left untreated during prolonged periods of particularly severe weather conditions. The total length of the Secondary salting network is 63 km (39 miles).
- 4.4 The primary road network within the Borough is covered by 3 salting routes. Each route is efficiently designed in order to comply with Audit Commission guidelines where possible and to give a maximum treatment time of 3 hours.

The Secondary salting network is also covered by 3 routes.

It should be noted that the response time at any time, night or day, is 1 hour.

- 4.5 Performance of the contractor in relation to response and treatment times is monitored to ensure satisfactory service delivery and contract compliance.
- 4.6 Arrangements have been made with adjoining Local Authorities to treat lengths of road beyond the Council's boundary and vice versa, in order to make salting of complex junctions and bridges at boundaries more efficient. A list of affected streets is included in Appendix (A).
- 4.7 Footways/cycleways are also categorised as follows:

Category 1: Main shopping areas

Category 2: Busy urban areas, including footways leading to schools and hospitals.

Category 3/4: Other less used footways.

Whilst footways/cycleways are not normally pre-salted, the category 1 and 2 footways and cycleway approaches to subways are treated in the same way as the secondary road salting routes. These are salted and/or cleared of snow during particularly severe and prolonged hazardous weather conditions. Footways in Bracknell Town Centre will however be salted locally as the need arises.

A list of town centre footways to be cleared of snow by the contractors, when instructed, is included as Appendix (C).

The Council is considering the precautionary salting of the trunk footpath and cycleway network.

- 4.8 There are a number of roads in the Borough which for various reasons are subject to wet conditions. Those that are on the Primary network have been identified and listed. On dry nights when temperatures drop below freezing and frost is not forecast to form on the carriageway then wet patches only are pre-salted.

- 4.9 The Highways Asset Maintenance Group hold details of the:

Primary salting network
Secondary salting network
Third, Fourth and Fifth tier salting network.
Wet patches
Footway salting network
Subways and footbridges
Drawings associated with the routes
Database of salt bin locations

5. CLIENT/CONTRACTOR RELATIONSHIP

- 5.1 The StreetCare Term Works Contract (2004 - 2014) includes for winter maintenance operations. The StreetCare term contractor is Ringway Infrastructure Services (RIS).
- 5.2 There are three precautionary salting routes to be treated under the StreetCare TWC (2004 - 2014). A summary of these routes is given in Appendix A.
- 5.3 There are three secondary salting routes to be treated under the StreetCare TWC (2004 - 2014). A summary of these routes is given in Appendix B.
- 5.4 The following table indicates how the principal winter maintenance responsibilities between Bracknell Forest Council and its contractor are split.

Preparation of Highways Winter Service Plan	Bracknell Forest Council
Road hierarchy priorities	Bracknell Forest Council
Salt purchase	Contractor
Routing (salting and snow clearance)	Contractors with guidance from the Council
Vehicles/plant	Contractor
Decision making	Duty Manager Contractor
Day-to-Day operations	Mainly contractors with co-ordination by Officers of Bracknell Forest Council
Manning levels	As defined in contract.
Performance monitoring	Bracknell Forest Council
Opening of Emergency Planning Room	Bracknell Forest Council
Approval to commence operations in extreme snow conditions	Bracknell Forest Council.

7. PLANT AND VEHICLES

- 7.1 The plant required to complete the 3 precautionary salting routes on the Borough's roads is owned by the contractors under the current StreetCare Term Works Contract.
- 7.2 To be effective, salt must be spread evenly and at rates to suit prevailing weather conditions. Excessive salt spreading is undesirable on both environmental and economic grounds. To this end, it is therefore essential that the spreading equipment is calibrated annually and the controls marked accordingly for spreads of 10g/m² for normal pre-salting and 20g/m² and 40g/m² for more severe conditions.
- 7.3 When snow clearing becomes necessary, the appropriate plant and equipment will be provided and operated by the Contractor.

8. OPERATIONAL COMMUNICATIONS

- 8.1 All winter maintenance vehicles are in radio contact with a base station in order that instructions can be passed and current information relayed back from the vehicles.
- 8.2 The contractors undertaking winter maintenance are required to provide the Highways Asset Maintenance Group with a list of the radio systems that are to be used prior to the commencement of winter maintenance operations and not later than 1 November.

9. WEATHER FORECASTS

- 9.1 During the winter period, the Winter Maintenance Duty Manager uses the Open Road forecasting service provided by the Meteorological Office. The regional office providing this service is the London Weather Centre. The information received each day includes the following:-

- (i) detailed 24-hour forecast
- (ii) evening update forecast
- (iii) realistic site specific temperature graphs (three sites)
- (iv) site specific snow prediction (two sites)
- (v) early morning summary
- (vi) 2 - 5 day forecast

In addition radar pictures can be provided when appropriate.

- 9.2 The 24-hour forecast is received at 1400 hours each afternoon. The main features of this forecast are as follows:-

- (i) Readiness colour
This is based on the traffic light colours; green, amber or red. The definitions are:-
 - Green - no snow or ice expected
 - Amber - risk of snow or ice
 - Red - snow, ice or drifting snow expected.

- (ii) Hazards
This section includes the hazards causing the red or amber readiness colours as well as other weather hazards such as heavy rain, high winds or fog, which could accompany a green readiness colour. Where possible a qualifying time is given. For example, icy patches expected after 2300 hours.
- (iii) Minimum temperatures
Minimum air and road temperatures for urban, semi-urban and rural areas are provided.
- (iv) Confidence statements
This consists of high, moderate or low confidence for each of the hazards described above, together with a qualifying statement. For example: low confidence regarding extent of showers this evening but high regarding road temperatures falling below zero.
- (v) 24 hour weather summary
This is a general summary of the forecast for the period from midday to midday.

9.3 At approximately 1900 hours each evening, a forecast update is issued by the London Weather Centre and can be viewed by the duty officer at home on his/her portable laptop computer. If further information is required the duty manager can make use of the 24 hour consultancy service provided by the London Weather Centre when a discussion can be held with the duty forecaster (see section 9 for further information on decision making).

10. THERMAL MAPPING AND ICE PREDICTION

- 10.1 A technique for measuring and analysing the thermal characteristics of road surfaces has been undertaken by Vaisala TMI Ltd. The thermal mapping covers approx 90% of the primary salting network.
- 10.2 The information yielded from thermal mapping is used in conjunction with site specific forecasts to predict accurately the minimum temperature of road surfaces across the road network. This allows accurate decisions to be made not only about whether to salt or not, but whether to salt only those roads that require treatment.
- 10.3 Thermal mapping has been used to produce data, which allows the pre-salting routes to be analysed objectively and to ensure the optimum location of road surface and atmospheric condition sensors. Nine sensors sites have been installed through Berkshire County.
- 10.4 Annual calibration checks on all sensors are undertaken by the appropriate equipment supplier with a full report submitted to West Berkshire Council which is currently clienting the Ice Prediction service on behalf of the Berkshire Unitary Councils.
- 10.5 Every hour, information from these sensors is fed automatically into the Central Processing Unit at Vaisala TMI's offices in Birmingham. The parameters recorded are, air temperature, humidity, precipitation, wind speed and direction, road surface temperature, surface condition (wet or dry) depth temperature and residual salt levels. Forecasts are produced by the London Weather Centre for the Unitary roads based on this information. These forecasts when used in conjunction with the thermal mapping data forms one of the most sophisticated ice prediction systems in the U.K.

11. DECISION MAKING

- 11.1 Decision making is the responsibility of the Contractors rostered duty manager (as described in Section 6. Each day during the winter, the duty manager will be on standby covering the geographical area of Bracknell Forest Borough Council with an overview of prevailing conditions in Berkshire.

The Contractors duty manager also has a specific responsibility for liaising directly with the "Open Road" forecaster and for disseminating information to the media as described in Section 15.

- 11.2. Using the forecast data provided the duty manager will make his/her decision regarding pre-salting as appropriate. To assist with this process, guidance notes are provided together with call out guidelines as shown in Appendices (F) and (G) respectively. The duty manager also has the responsibility for receiving and taking the appropriate action on behalf of Bracknell Forest Borough Council.
- 11.3 The duty manager's decision is transmitted by phone to the Contractor and recorded on a justification form as shown in Appendix (H) and filed for future reference.
- 11.4 The winter service contractor is contacted by telephone or mobile phone.
- 11.5 Appropriate training is to be provided regularly for all duty managers particularly with regard to technological improvements in forecasting techniques and the ice prediction system.

12. SALT

- 12.1 Rock Salt complying with BS 3247 is to be supplied by RIS for winter maintenance operations on the network and will be stored at: -

Bagshot Maintenance Depot
2 London Road
Bagshot
GU19 5HN

It is a contractual requirement that the winter maintenance contractors stockpile at the location shown above and that the salt is in place by 30 September each year.

- 12.2. Salt at the Bagshot Depot is stored under cover in a salt barn.
- 12.3 It is the responsibility of the contractor to maintain adequate salt stocks meet the requirements of the term contract.
- 12.4 Under the StreetCare TMC, Bracknell Forest Council in partnership with RIS are using pre-wetted salt. A brine solution comprising of 30% salt and 70% water mixed with dry salt on a spread ratio of 30% brine and 70% salt. The whole ethos of treating roads relies on the salt dissolving. The advantages of this treatment method with its partial dilution at point of application are the immediate de-icing action that takes place on contact with the road surface. This in turn reduces the amount of overspill and verge dieback that occurs with the spreading of dry salt.

13. SALT BINS

13.1 Specific locations have been identified where there is a need to undertake regular spot salting. To ensure an effective and efficient service Bracknell Forest Council have placed a number of salt bins at these sites. The following criterion for the provision of salt bins has been adopted. Both points have to be met:

- (i) Salt bins will not be located on a primary salting route unless intended for use on an adjoining road, which is not on the primary salting route.
- (ii) Salt bins will only be placed where there is a continuous steep and/or hazardous gradient of at least 10% (1 in 10) and where there are buildings in regular occupation nearby.

13.2 In addition to the above salt bins are also placed at strategic locations on the footway and cycleway network where there is a high pedestrian/cyclist usage, for example Bracknell Town Centre, near subways and footbridges.

13.3 Using the criteria described above, 40 salt bins are provided throughout the Borough and are repaired and replenished throughout the winter period as necessary. In addition the Council supports 14 salt bins on behalf of the Parish and Town Councils. At the end of the winter, all salt bins are collected, salt returned to the stockpile and the bins cleaned and stored away during the summer months.

13.4 In accordance with the highways winter service policy (see Section 1) no further salt bins will be provided in 2009/2010

14. SNOW CLEARING

14.1 When conditions are such that snow clearing becomes necessary, an instruction will be given by the duty manager to immediately commence snow clearing operations. It is anticipated that some notice, albeit only a few hours, is usually given by the forecaster and so it is essential that snow ploughs are fitted without delay.

14.2 Snow clearing routes comprise the Category 2, 3a, 3b and other well trafficked roads on the highway network. The Contractor shall patrol these snow clearing routes until such time as directed by the highways asset maintenance group. The highway network shall be cleared in descending order of priority, concentrating firstly on the clearance of Category 2 and 3a roads followed by other roads in accordance with the Council's agreed policy.

- The priority road snow clearing routes are the primary pre-salting routes.
- The secondary road snow clearing routes are the secondary salting routes.
- Footways and cycleways will be cleared on a priority basis commencing with the Primary footway salting network.
- The Highways Asset Maintenance Group hold plans showing the above routes.
- Once these routes are cleared resources are then diverted to the clearance of the remaining roads on the network and to re-stock the salt bins.

- 14.3 If snow clearing becomes necessary, the Council's Emergency Planning Room (EPR) may be opened and manned until conditions abate. During this time, all incoming calls relating to winter maintenance operations will be directed to the EPR.

15. MEDIA COMMUNICATIONS

- 15.1 Liaison with the news media, particularly the local radio stations, BBC Radio Berkshire and Heart FM s of the utmost importance and will be maintained during periods of snowfall. This contact will normally be directly with the Councils Press Office.
- 15.2 BBC Radio Berkshire and Heart FM will be advised by fax on those occasions when precautionary salting is to be undertaken. For information, a copy of the fax is given in Appendix I.
- 15.3 It is also desirable that communications with the local police force is maintained. To this end, a copy of the Fax message described in 11.3 will be issued to the Thames Valley Police Headquarters at Milton Keynes for onward transmission to local stations at Reading and Slough. Additional information will also be provided as appropriate to the motoring organisations, particularly during periods of snow clearance when it is essential that the travelling public are advised of current road conditions and cleared routes.
- 15.4 Prior to winter a press release is made giving information on the current policy and pre-salting plans will be circulated to all Parish Council Offices.

16. BUDGETS

- 16.1 Bracknell Forest Council's budget for winter maintenance allows for the following:
- i) Maintenance of communication and ice prediction equipment
 - ii) Fixed costs of standby arrangements
 - iii) An average of 50 precautionary salting runs on the Primary network
 - iv) Weather forecasts and ice prediction service.
 - v) An average of 4 salting runs on the Secondary network
- 16.2 It should be noted that whilst snow clearing operations will be undertaken in accordance with the Winter Maintenance Plan, there is no budget for this work. However, a report will be prepared and submitted to the appropriate committees as soon as possible after snow clearing has been completed in order for any necessary budgetary adjustments to be agreed.

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PRIMARY PRE-SALTING ROUTES

Binfield

Church Hill
Church Lane

Forest Road (B3034)

Howe Lane (end at junction with Westley Mill (north exit))

London Road (B3408)

Maidenhead Road (A3095)

Temple Way
Twyford Road

Bracknell

Bagshot Road (A322)
Berkshire Way (A329) (to Borough boundary)
Binfield Road (B3018)
Bond Way
Broad Lane

Church Road
Crowthorne Road
Crowthorne Road (A3095)

Doncastle Road (West, including Link Road to Berkshire Way)
Downshire Way (Bagshot Road to Wokingham Road)

Easthampstead Road
Ellesfield Avenue

Great Hollands Road

Hanworth Road
Harmans Water Road

London Road (A329)

Millennium Way
Mill Lane (A3095)

Nine Mile Ride

Opladen Way

Park Road
Peacock Lane

Ralphs Ride
Rectory Lane
Ringmead

Ringmead/South Hill Road Bus Link

Skimped Hill Lane
South Hill Road

The Ring

Warfield Road (A3095)
Western Road
Wildridings Road
Wokingham Road (B3408) (**incl Wokingham DC section through to Coppid Beech Roundabout**)

Crowthorne

Bracknell Road

Dukes Ride (**incl Wokingham DC section through to Wellingtonia Roundabout**)

High Street

Nine Mile Ride

Old Wokingham Road

Sandhurst Road

Sandhurst

Crowthorne Road (A3095)

Foresters Way

High Street – Little Sandhurst

Laundry Lane (**incl Surrey CC section through to A30 London Road**)

Marshall Road

Meadows Roundabout (A30/A321) (**treated by Surrey CC under agreement**)

Rackstraw Road

Swan Lane (to County boundary)

Tank Road

Wokingham Road (A321) (**incl Wokingham DC section through to Wellingtonia Roundabout**)

Yateley Road (to County boundary)

Yorktown Road

Warfield

Ascot Road (A330)

Bracknell Road (B3022)

County Lane

Forest Road (B3034)

Harvest Ride

Jigs Lane
Jigs Lane North

Kingscroft Lane

Newell Green (A3095)

Warfield Street (B3034)

Winkfield

A329 London Road (**end at junction with Gainsborough Drive**)

Bagshot Road (A322) (**Swinley Roundabout to Borough Boundary section treated by Surrey CC under agreement**)

Bagshot Road (B3022) (**treated by Surrey under agreement**)

Bracknell Road (B3022)

Chavey Down Road
Church Road
Cocks Lane

Drift Road

Fernbank Road
Forest Road (B3034) (**incl RBW&M section through to Hatchet Lane**)

Harvest Ride
Hatchet Lane (**incl RBW&M section through to Foret Road**)

Kings Ride (**end 80m east of Prince Albert Drive**)

Locks Ride
Longhill Road
Lovel Lane
Lovel Road

Maidens Green
Mounts Hill (B383) (**incl RBW&M section**)

New Forest Ride
New Road
North Street

Pigeonhouse Lane
Priory Road

Sheet Street Road (A332) (**end at Borough boundary 650m east of Peanut Roundabout**)

Sunninghill Road (B383)
Swinley Road (A332)
Swinley Road (B3017)

Windsor Road (A332) (**end at junction with Woodside Road**)
Winkfield Lane
Winkfield Road (A330)
Winkfield Road (A383) (**end at Borough boundary 500m east of Cranbourne
Roundabout**)

SECONDARY SALTING ROUTES

Binfield

Beehive Road
Benetfeld Road
Billingbear Lane
Cain Road
Carters Hill
Popeswood Road
St. Marks Road
Terrace Road North
Terrace Road South
Turnpike Road

Bracknell/Warfield

All Saints Rise
Atte Lane
Bay Drive
Bay Road
Birch Hill Road
Bracknell Bus Depot
Braybrooke Road
Bull Lane
Bullbrook Drive
Calfridus Way
County Lane
Crowthorne Road
Crowthorne Road North
Darby Vale
Deepfield Road
Doncastle Road (part)
Downshire Way (Wokingham Road to Binfield Road)
Dukes Hill Road
Eastern Road
Farningham
Folders Lane
Great Hollands Square
Heathmoors
Hebbecastle Down
High Street
Holly Spring Lane
Horatio Avenue
Horsneile Lane
Huson Road
Julius Hill
Kennel Lane
Lily Hill Road
Lily Hill Drive
Longwater Road
Lovelace Road and Bus Link
Manston Drive
Mareshall Avenue
Market Street
Mendip Road

Moordale Avenue
Newport Drive
Oareborough
Pondmoor Road
Priestwood Avenue
Reeds Hill
Redvers Road
Sandy Lane
Savernake Way
Shakespeare Way
Shepherds Lane
Staplehurst
Stoney Road
Strawberry Hill
Total Rise
Townsend Close
Waterloo Road
Wellington Drive
Westmorland Drive
Wildridings Road
Wildridings Road Link (Downshire Way)
Windlesham Road
Windmill Road
Woodenhill
Woolhampton Way
Wordsworth

Crowthorne, Sandhurst

Acacia Avenue
Branksome Hill Road
Brookers Row
Cambridge Road (Crowthorne)
Cambridge Road (Sandhurst)
Chapleins Hill
Cheviot Road
Chiltern Road
Church Road
College Road
Edgcumbe Park Drive
Fakenham Way
Furze Hill Crescent
Grampian Road
Grant Road (Pinehill Road to Edgbarrow School)
Harts Leap Road
Harvard Road
High Street (Little Sandhurst)
Longdown Road
Lower Broadmoor Road
Magdalene Road
Mickle Hill
Napier Road
New Wokingham Road
Owlsmoor Road
Oxford Road
Pinehill Road (Sandhurst Road to Grant Road)
School Hill
Scotland Hill
Upper Broadmoor Road

Waterloo Road (Crowthorne)
Wellington Road (Crowthorne)
Wellington Road (Sandhurst)
Yeovil Road
York Way

South Ascot

Coronation Road (**end junction with Fir Tree Close**)

Winkfield

Braziers Lane
Church Road
Hatchet Lane (**end junction with Mounts Hill B383**)
Locks Ride
North Road
Winkfield Row (link)

FOOTWAY SALTING

PRIORITY FOOTWAYS

Binfield

Terrace Road

Bracknell

Broadway
Bay Road, Bullbrook
Birch Hill Road, Birch Hill
Birch Hill off Ringmead Road
Charles Square
Crossways High Street
Deepdale, Wildridings
High Street
Great Hollands Road
Great Hollands Square
Opladen Way, Crown Wood
Pendlebury, Hanworth Road
Priestwood Square, Windlesham Road
Ralphs Ride, Harmans Water
Rectory Lane
Bere Road, Forest Park
The Ring
Footway - from Bus Station Princess Square
Whitton Road, Martins Heron

Crowthorne

High Street
Station Parade, Dukes Ride

North Ascot

Fernbank Road
New Road
Warren Row

Sandhurst

Old Mill Parade, High Street
Tank Road
The Meadows, Marshall Road
Yorktown Road (Swan Lane to Crowthorne Road)
Yorktown Road (Swan Lane to The Broadway)
Yeovil Road

SALT BIN LOCATIONS**Binfield**

- | | | |
|-----|--------------------|-----------------------------|
| 1. | Mill Green (P) | Opp. Samian Place |
| 50. | Red Rose | J/w Rose Hill |
| 51. | Cressex Close (P) | Opp. 7 Cressex Close |
| 68. | Emmets Nest (P) | To side of 1 Albert Cottage |
| 72. | Tilehurst Lane (P) | J/w Terrace Road |
| 73. | Tilehurst Lane (P) | Opp. Coote Close |

Bracknell

- | | | |
|-----|-------------------|-----------------------------------------------------|
| 2. | Broadway | O/s Seymour House |
| 3. | Broadway | Top of Market steps |
| 4. | Charles Square | High St. opp bandstand |
| 5. | High Street | O/s McDonalds nr. The Ring |
| 6. | High Street | Bank Square |
| 8. | Calfridus Way (P) | o/s The Boys Club |
| 10. | Beech Glen | J/w Crowthorne Road |
| 11. | Crowthorne Road | adj Mill Lane footbridge |
| 12. | Lingwood | On verge to side of 56 Manston Drive |
| 14. | Worlds End Hill | On corner opposite No 50 not against wall |
| 16. | Greenham Wood | J/w Ringmead |
| 18. | Jevington | J/w Ringmead |
| 17. | Kimberley | On footpath near small tree about 10m from Ringmead |
| 21. | Quintilis (P) | O/s 69 Quintilis |
| 49. | Bus Station | Bracknell |
| 52. | Avebury | Opp 38 Avebury |
| 53. | Tawfield | O/s 13 Tawfield |
| 63. | Leppington | Opp entrance to Community Centre |
| 75. | Babbage Way | On Central island opposite junction by nos. 31/38 |

Chavey Down

- | | | |
|-----|----------------|------------------------------------|
| 22. | Long Hill Road | Opp church Lane between Birch Lane |
| 23. | North Road | J/w Priory Road |

Crowthorne

- | | | |
|-----|--------------------|-------------------------------------------------|
| 25. | Byron Drive (P) | Footway adjacent to give way sign 59 yrds ahead |
| 26. | Grant Road | J/w Pinehill Road on verge |
| 27. | Pine Hill Road (P) | Outside no. 74 |
| 65. | South Meadow (P) | South verge opp first garage block |
| 66. | South Meadow | At junction on verge o/s 77 next to LC |

Forest Park

- | | | |
|-----|---------------------|------------------------------------------------|
| 13. | Micheldever Way (P) | Halfway up hill on verge opp Woodmancott Close |
|-----|---------------------|------------------------------------------------|

North Ascot

- | | | |
|-----|----------------|----------------------------------------------|
| 28. | The Grove | J/w Asher Drive |
| 30. | Mill Ride (P) | J/w Whitelands Drive |
| 32. | Bracken Bank | side of No 55 Bracken Bank |
| 33. | Fernbank Place | On central Island junction with Bracken Bank |

Sandhurst

- | | | |
|-----|-----------------------------|-------------------------------------------------------------------|
| 34. | Copperfield Road (P) | Owlsmoor Road between Rackstraw Road and Fakenham Way by Bus Stop |
| 37. | Grampion Rd | O/s New Scotland School |
| 39. | Mountbatten Rise | J/w High Street |
| 40. | Mickle Hill (West) | J/w Longdown Road |
| 41. | Mickle Hill (East) | J/w Longdown Road |
| 42. | Greenways | J/w Broom Acres |
| 43. | Scotland Hill | Opp J/w Cock-a-Dobby |
| 44. | Harts Leap Close | J/w Crowthorne Rd |
| 45. | Pinehill Rise (P) | |
| 46. | Moffats Close | J/w Crowthorne Rd |
| 47. | Scotland Hill | J/w A321 High Street |
| 48. | Hone Hill | J/w York Way |
| 56. | School Hill | J/w High Street |
| 58. | Long Mickle | at J, o/s 12 Long Mickle |
| 59. | Humber Way (P) | Against fence inside playing field adjacent to LC 2 |
| 71. | St Helens Crescent | Side of No. 2 |

Warfield

- | | | |
|-----|----------------|-------------------------------------------------|
| 61. | Juliet Gardens | J/w Shakespeare Way |
| 74. | Dorset Vale | At end of footway at side of 6 Wiltshire Grove. |

- (P)** Parish and Town Council salt bins

DECISION MAKING BY RINGWAY INFRASTRUCTURE SERVICES

RINGWAY INFRASTRUCTURE SERVICES
WINTER MAINTENANCE DUTY MANAGER ROSTER 2009/2010

Week Commencing	Duty Officer	RESPONSIBILITY
		1. ACTING AS DUTY MANAGER FOR ROADS WITHIN BRACKNELL FOREST COUNCIL 2. LIAISON WITH THE LONDON WEATHER CENTRE 3. INFORMING THE MEDIA AS REQUIRED 4. LIAISING WITH HIGHWAY AGENCY CONSULTANTS ON MOTORWAYS AND TRUNK ROADS
02 November	David Surridge	
09 November	David Surridge	
16 November	George Drwal	
23 November	George Drwal	
30 November	David Surridge	
07 December	David Surridge	
14 December	George Drwal	
21 December	George Drwal	
28 December	David Surridge	
04 January	David Surridge	
11 January	George Drwal	
18 January	George Drwal	
25 January	David Surridge	
01 February	David Surridge	
08 February	George Drwal	
15 February	George Drwal	
22 February	David Surridge	
01 March	David Surridge	
08 March	George Drwal	
15 March	George Drwal	
22 March	David Surridge	
29 March	David Surridge	
05 April	George Drwal	

Duty Managers:

George Drwal
David Surridge

Office 01483 407999
Fax 01483 458502

Outside of normal working hours, the duty manager can be contacted through Forest Care - dial 01344 786500

BRACKNELL FOREST COUNCIL

HIGHWAYS ASSET MAINTENANCE GROUP

Highway Asset Maintenance Group - Inside Office Hours

Officer	In Hours Contact	
Anthony Radford-Foley	01344 352000	
Phil Moir	01344 352000	
Jim Naylor	01344 352000	
David Caiger	01344 352000	
Ray Williams	01344 352000	
Bill French	01344 352000	
Rod Icke	01344 352000	
Help Desk	01344 352000	

Management Team – Outside Office Hours

Contact	In Hours	Out of Hours
Anthony Radford-Foley Highway Asset Manager	01344 352000) Through
Jim Naylor Engineer	01344 352000	} Forestcare

**BRACKNELL FOREST COUNCIL CALL OUT FACILITIES
OUTSIDE OFFICE HOURS**

Bracknell Forest Council		
Forest Care	01344 786500	01344 786520 FAX

GRITTING OPERATION BY RINGWAY INFRASTRUCTURE SERVICES

RINGWAY INFRASTRUCTURE SERVICES
WINTER MAINTENANCE OPERATIONS ROSTER 2009/2010

Week Commencing	Duty Officer	RESPONSIBILITY
9 November	Shaun Sewraj	1. ACTING AS OPERATIONS MANAGER FOR ROADS WITHIN BRACKNELL FOREST COUNCIL
16 November	Paul Christian	
23 November	Shaun Sewraj	
30 November	Paul Christian	
7 December	Shaun Sewraj	2. LIAISON WITH THE DUTY MANAGER
14 December	Jimmy Conn	
21 December	Paul Christian	
28 December	Paul Christian	
4 January	Shaun Sewraj	3. MOBILISING GRITTERS
11 January	Paul Christian	
18 January	Shaun Sewraj	
25 January	Jimmy Conn	
1 February	Shaun Sewraj	4. REPORTING BACK TO DUTY MANAGER ON COMPLETION: <ul style="list-style-type: none"> • Start Time • Finish Time • Rate of Spread • Tonnes Used
8 February	Paul Christian	
15 February	Shaun Sewraj	
22 February	Paul Christian	
1 March	Shaun Sewraj	
8 March	Jimmy Conn	
15 March	Shaun Sewraj	
22 March	Paul Christian	
29 March	Shaun Sewraj	

Operations Managers:

Jimmy Conn
Paul Christian
Shaun Sewraj

Office 01276 450560
Fax 01276 450561

Outside of normal working hours, the duty manager can be contacted through Forest Care - dial 01344 786500

**WINTER MAINTENANCE
GUIDANCE NOTES FOR DUTY MANAGERS**

1. FORECAST INFORMATION

- i) At approximately 1530 download all data from Birmingham and inspect 24 hour forecast and graph and appropriate maps (it is likely that your decision will be made at this time).
- ii) At approximately 1930 download all data from Birmingham and inspect forecast graph and text for any updated information. The forecast graph will continue to have actual road surface temperatures plotted every hour until midday the following day. This information can be obtained any time by downloading from Birmingham. If a decision can still not be made it may be necessary to consult the forecaster at the London Weather Centre.
- iii) It is the responsibility of each duty manager to record all action taken on the justification forms and file for future reference.

2. COMMUNICATIONS

- i) The duty manager will also be responsible for sending a fax message to the police and local radio stations informing them of the decision made concerning precautionary salting (Appendix I).

WINTER MAINTENANCE CALL OUT GUIDELINES

FORECAST ROAD CONDITIONS

1. Road surface dry
2. Road surface dry with wet patches due to seepage etc.
3. Road surface wet but may become dry
4. Road surface wet
5. Road surface dry but may become wet

FORECAST WEATHER

- A. R.S.T. above freezing
 - (i) + 4° C or above
 - (ii) above +1° C, below +4° C
- B. R.S.T. at or below +1° C
 - (i) + 1° C to -2° C
 - (ii) below -2° C
- C. B (i) or B (ii) with rain beforehand
- D. B (i) or B (ii) with rain during freezing
- E. Hoar Frost
- F. Freezing fog
- G. Freezing rain
- H. Snow
 - (i) light falls up to 30mm
 - (ii) falls over 30mm

RECOMMENDED ACTION

- a) No Precautionary salting.
- b) Partial salt:- wet patches before the onset of frost.
- c) Inspection at a time to enable any necessary action to be taken before conditions become critical.
- d) Full pre-salt to be completed before onset of frost.
- e) Full pre-salt after rain has finished. Full pre-salt to be completed before onset of frost, as required during rain and again after rain stops.
- f) Full pre-salt to be completed before onset of frost, as required during rain and again after rain stops.
- g) Salting crews to remain in Depot awaiting instructions.
- h) Road conditions to be monitored by duty officer using ice prediction system.

ROAD	FORECAST										
CONDITIONS	A (i)	A(ii)	B (i)	B (ii)	C	D	E	F	G	H(i)	H(ii)
1	a	a	a	B			d	d		d	dg
2	a	h	b	B			d	d		d	dg
3	a	h	c	Bc	e	f	d	d		d	dg
4	a	h	d	D	e	f	d	d	dg	d	dg
5	a	h	h	B			d	d		d	dg

RECOMMENDED TREATMENT

Weather Condition	Salting (g/m ²)	Ploughing
Frost or frost forecast RST at or above -2°C	10	No
Frost or frost forecast RST at or above -2°C and above -5°C	20	No
Frost or frost forecast RST at or below -5°C and above -10°C and dry or damp conditions	20	No
Frost or frost forecast RST at or below -5°C and above -10°C and wet road conditions	2 x 20	No
Light snow forecast (<10mm)	20	No
Medium/heavy snow forecast	2 x 20	No
Snow covering exceeding 30mm	20 - 40 (successive)	Yes

**DUTY MANAGER TO DETERMINE TIMING OF SALTING RUNS AND RATES OF
SPREAD DEPENDING ON FORECAST DETAILS**

THE ABOVE TABLES ARE FOR GUIDANCE ONLY

DUTY FORECASTER SHOULD BE CONSULTED AS NECESSARY.

BRACKNELL FOREST COUNCIL

DAILY RECORD FORM FOR WINTER MAINTENANCE

DATE : TIME DECISION TAKEN

1. FORECAST:- RED/AMBER/GREEN

HAZARD	YES	NO	POSSIBLE
ICE			
HOARFROST			
SNOW/SLEET			
FOG			

MINIMUM FORECAST TEMPERATURE:-

AIR

ALL ROADS

URBAN ROADS.....

2. PROPOSED ACTION

ROUTES	NO ACTION	FULL PRESALT		WET AREAS	
		Time	Rate	Time	Rate
1					
2					
3					

JUSTIFICATION:-

SIGNED DUTY OFFICER

Ringway Infrastructure Services
(Agents To Bracknell Forest Council)

BRACKNELL FOREST COUNCIL

FAX MESSAGE FROM DUTY MANAGER FOR WINTER MAINTENANCE

Date : **Time :**

To: LONDON WEATHER CENTRE, BBC RADIO BERKSHIRE, HEART FM, and THAMES VALLEY POLICE *

**Copy to: Forest Care
Asset Management**

The following decisions have been made in respect of winter gritting within the boundaries of Bracknell Forest Borough Council.

- (i) All designated routes to be salted and to be completed by
- (ii) Selected routes detailed below to be salted and completed by
- (iii) Known wet trouble spots to be salted by
- (iv) Emergency action detailed below

Additional Information :

.....

.....

.....

.....

* T.V. Police, Milton Keynes to forward copy of FAX to Wantage, Reading and Slough Control Rooms.

**DUTY MANAGER
Ringway Infrastructure Services**

(Note: Ringway Infrastructure Services are Agents to Bracknell Forest Council)

FAX NOTIFICATION LIST

No	Name	Organisation	Tel.		Fax	
1	Bracknell Forest BC	Highways Asset Management Group	01344	352000	01344	351141
2	Bracknell Forest BC	Forest Care	01344	786500	01344	786520
3	Bracknell Forest BC	Customer Enquiries	01344	352000	01344	352201
4	Thames Valley Police	Control Room Abingdon	08458	505505	01865	846160
5	RBWM	Engineering and Transport	01628	685736	01628	796774
6	Wokingham Borough Council	Highways, Tony Jackman	0118	9088301	0118	9746770
7	Mouchel	Highways Agency Area 3 WinterService.Area3@enterprisemouchel.com			01962	856669
8	London Weather Centre	London Weather Centre	0207	2047455	0207	2047475
9	Heart FM	Heart FM	0118	9288800	0118	9288569
10	BBC Radio Berkshire	BBC Radio Berkshire	0118	9464200	0118	9464555

**WINTER MAINTENANCE 2009-2010
POLICY & PROCEDURE FOR SALTING OF FOOTWAYS/CYCLEWAYS
IN BRACKNELL TOWN CENTRE**

1.0 General Procedure

- 1.1 The Council aims to provide a winter maintenance service enabling as far as is reasonably possible the safe movement of pedestrian and cycle traffic on the first and second priority routes shown on the Bracknell Town Centre Winter Maintenance Plan.
- 1.2 Town centre footways and cycleways will not be pre-salted. They will be salted and or cleared of snow during particularly severe and prolonged hazardous weather conditions. Salt will be applied after the formation of ice on the footway and cycleway surface.
- 1.3 The area comprising the first priority salting route shall be checked at day break and not later than 0630 hours Monday to Friday for the presence of surface icing. Treatment of general icing or ice patches over the whole area shall be completed by 0745 hours.
- 1.4 The area comprising the second priority salting route shall be checked between 0730 hours and 0800 hours Monday to Friday for the presence of surface icing. Treatment of general icing or ice patches over the whole area shall be completed by 0845 hours.
- 1.5 Subject to there being ice on the surfaces comprising the first and second priority salting routes, the Council's StreetCare Contractor may be required to treat these areas on a Saturday or a Sunday during the winter period.

2.0 Client Contractor Relationship

- 2.1 The winter maintenance service shall be undertaken by the Council's StreetCare Contractor Ringway Infrastructure Services (RIS).
- 2.2 RIS will treat with rock salt the first priority and second priority salting routes comprising in the main public highway and also small areas of Council owned land.
- 2.3 Under separate agreements with other Client Departments, RIS will treat certain unadopted areas using an environmentally friendly alternative to rock salt such as Icemelt.
- 2.4 The following list indicates how the principal winter maintenance responsibilities between the Client and RIS are split:

(a) Preparation of the Winter Maintenance Plan	Client
(b) Salting route priority	Client
(c) Salt purchase through TMC	Client
(d) Routing for salting	RIS

- | | | |
|-----|---------------------------------------------------------------------------|-------------------------------------|
| (e) | Plant (Turbocast salt spreaders) and salt bins | Client ownership
RIS to maintain |
| (f) | Decision making (Ultimate) | Client |
| (g) | Day to day operations, decision to salt on the basis of ice being present | RIS |

3.0 Plant

- 3.1 The Council owns two pedestrian operated Turbocast salt spreaders which are located at Central Depot, Old Bracknell Lane, Bracknell.
- 3.2 RIS shall be responsible for the maintenance of the spreaders and routine operations are to be carried out on the following basis:
- (a) After each salting run
 - (i) Wash down hopper, spinner plate and all moving parts with clean water to remove all traces of salt.
 - (ii) Dry off all moving parts and check operation of spreader.
 - (iii) Report any defects to the client officer.
 - (b) Each week after a salting run
 - (i) As (a) plus
 - (ii) Check tightness and operation of drive belt.
 - (iii) Visual inspection of wheel and other securing nuts, tighten as necessary.
 - (iv) Spray all moving parts with lubricant such as WD40.
 - (v) Check wheel operation and grease as necessary.
- 3.3 The Council has 6 salt bins in the town centre which are the responsibility of RIS to maintain. At the start of the winter maintenance period RIS will fill the bins and position the bins at the following sites:
- (a) High Street outside the Post Office.
 - (b) The Broadway near to the Market step.
 - (c) The Broadway outside Seymour House.
 - (d) Charles Square opposite bandstand.
 - (e) High Street opposite McDonalds.
 - (f) The Bus Station at end of bay 1.
- 3.4 At the end of the winter maintenance period RIS will return the bins to store
- 3.5 During the winter maintenance period, RIS shall monitor salt usage and replenish the bins as necessary. The condition of the bin and the operation of the hinged lid shall be checked and any defects reported to the client officer.
- 3.6 All other plant and vehicles used to perform the winter maintenance service shall be provided and maintained by RIS

4.0 Weather Forecast

4.1 During the winter period RIS will review the 2-5 day and 24 hour weather forecast as provided by the London Weather Centre. The object of this exercise is to give RIS information on the predicted weather conditions and the expectancy of icing.

5.0 Decision Making

5.1 Ultimate decision making is the responsibility of the client.

5.2 Whilst the 2-5 day weather forecast may indicate the formation of ice overnight, the decision to treat the first and second priority salting routes shall be made by RIS only on the basis that early morning inspections of the prescribed areas reveal the presence of surface icing.

5.3 RIS shall inform the client of the decision to salt the prescribed routes by noon of the same day.

5.4 The client can be contacted during office hours on 01344 352000 and out of hours through Forestcare on 01344 786500. The Clients Fax machine No is 01344 351141.

18. CIRCULATION LIST

18.1 Internal

Highways Asset Management
Customer Services
Forest Care
Communications
Ringway Infrastructure Services

18.2 Adjoining Councils

Hampshire County Council
Royal Borough of Windsor & Maidenhead
Surrey County Council
Wokingham Borough Council

18.3 Highways Agency's Agents

Mouchel

18.4 Emergency Services

Thames Valley Police - Traffic Management Unit
Berkshire Fire and Rescue
Royal Berkshire Ambulance NHS Trust

18.5 Parish Councils

Binfield Parish Council
Bracknell Town Council
Crowthorne Parish Council
Sandhurst Town Council
Warfield Parish Council
Winkfield Parish Council

18.5 Media Organisation

BBC Radio Berkshire
Heart FM

18.6 Motoring Organisations

RAC - Touring Information (RR)
AA Roadwatch

19. REFERENCES

- i) Highway Maintenance: A code of good practice - Winter Maintenance Supplement 1991.
- ii) Highways Act 1980
- iii) Well-maintained Highways - Code of Practice for Maintenance Management July 2005.
- iv) Department of Transport Winter Maintenance of Motorways and other Trunk Roads statement of service and code of practice.
- v) BS 1622: 1989 Specification for spreaders for Winter Maintenance.
- vi) Audit Commission - Improving Highway Maintenance.
- vii) Primary salting network
Secondary salting network
Wet route list
First priority plough routes
Second priority plough routes
Drawings associated with the routes
Database of salt bin locations
- viii) Lessons from the Severe Weather February 2009. UKRLG