

WINTER MAINTENANCE PREPARATION (GRITTING)

Growth and Prosperity OSP- Task and Finish Group



PLYMOUTH
CITY COUNCIL

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Summary of Terms -

- HMPE – Highways Maintainable at Public Expense

Highway maintainable at public expense (HMPE) is highway where the liability for maintenance rests with the Highway Authority. HMPE may sometimes be referred to as 'public highway', although this term has no meaning in law. The Highways Act 1980, section 36, sets out which highways are HMPE.

- T & H P – Transport & Highways Partnership

I INTRODUCTION

The Overview and Scrutiny Management Board approved in principle on 27 July 2011, the establishment of a Task and Finish Group to review the winter maintenance preparation regime to ensure it was fit for purpose.

2 EXECUTIVE SUMMARY

The Growth and Prosperity Panel established a Task and Finish Group to review the Winter Maintenance regime in Plymouth. Several officers provided information to the panel and attended as witnesses to aid the panel in improving the regime.

3 THE PANEL

The Task and Finish Group's cross party membership comprised of the following Councillors –

- Councillor Nicholson (Chair)
- Councillor Coker (Vice Chair)
- Councillor Berrow
- Councillor Churchill
- Councilor Murphy
- Councillor Mrs Nicholson
- Councillor Williams
- Councillor Wright

For the purposes of the review, the Task and Finish Group was supported by –

- Gill Peele, Business Manager for Development and Regeneration
- Ian Ellis, Assistant Network Manager, Plymouth Transport & Highways Partnership
- Duncan Malloch, Network Manager, Plymouth Transport & Highways Partnership
- Tom White, Head of Network Management Unit, Plymouth Transport & Highways Partnership
- Helen Rickman, Democratic Support Officer

4 SCRUTINY APPROACH

4.1 The Task and Finish Group convened on two separate occasions to consider evidence and hear from witnesses –

- 8 September 2011

- 15 September 2011

4.2 Members of the Task and Finish Group aimed to examine and make recommendations about the Winter Maintenance regime in Plymouth to assess if it was fit for purpose.

4.3 The Work Programme Request (PID) is attached as Appendix I.

4.4 At its meetings on 8 September 2011 and 15 September 2011 the Task and Finish Group considered evidence from witnesses, raised questions and considered answers and recommendations relating to the Winter Maintenance regime.

4.5 Key issues and findings from the 8 September 2011 meeting included that –

- (a) Plymouth had experienced two bad winters in a row;
- (b) the Winter Maintenance regime in Plymouth was of public interest;
- (c) there were limited resources to grit the entire road network in Plymouth;
- (d) there were approximately 400 grit bins throughout the city – officers received several requests to refill the grit bins throughout the winter period;
- (e) gritting resources were focused on primary and secondary roads;
- (f) the current Transport & Highways Partnership Winter Maintenance Plan was not intended to cover maintenance of the corporate estate such as schools and road/land that was not maintainable at public expense;
- (g) it was a common misconception that grit was used in treating the road network in the winter when it was in fact salt that was used;
- (h) grit could be added to the salt when the stock diminishes however this would result in a residual product which could become a slipping hazard;
- (i) the Winter Maintenance regime ran from October to April;
- (j) it was important to put salt down on the road network before the formation of ice and snow;
- (k) there were a fixed number of operatives who dealt with the gritting of roads;
- (l) it was considered that 200 tonnes of salt was required to maintain the grit bins throughout the winter period;
- (m) seven snow ploughs were used in Plymouth to clear the snow from the road network;
- (n) the Council was proactive in liaising with its partners/businesses regarding the need for them to purchase salt stocks however several had not yet responded;
- (o) salt was only effective to the temperature -9
- (p) footpaths were not pre treated in Plymouth;

- (q) officers ensured that there was always a six day stockpile of salt at Hatfield House;
- (r) the council aimed to buy salt in the summer months as it is cheaper;
- (s) gritters were sent around the Plymouth road network to analyse known 'wet spots' which were known to form ice;
- (t) not all grit bins in the city were maintainable at public expense;
- (u) the location of grit bins were strategically placed to assist where the gritter lorries did not reach;
- (v) the contract that Plymouth City Council had with Amey was on the basis of a fixed annual fee;

4.6 Key issues and findings from the 15 September 2011 meeting including that –

- (a) there were four main emergency routes across Plymouth that were kept open and clear of snow at all times;
- (b) salt was approximately £30 per tonne in the summer but increased to £100 per tonne last winter;
- (c) Plymouth was named as 5th for customer satisfaction for winter maintenance out of 90 local authorities;
- (d) PCC and Amey were due to host a winter maintenance road show to offer advice;
- (e) there was capacity at Prince Rock depot to store several tonnes of salt;
- (f) PCC Corporate Support (asset management) had responsibility for the Prince Rock depot;
- (g) Amey tried to respond in an emergency to provide salt to partners/businesses however were not always able to facilitate every request;
- (h) officers received intelligence from members of the public and councillors who ring/write on the issues experiences with the winter maintenance regime;

5 WITNESSES

The Task and Finish Group heard representations from –

- Ian Ellis, Assistant Network Manager
- Duncan Malloch, Network Manager
- Tom White, Head of Network Management Unit
- Mike Hocking, Corporate Risk Manager

- Chris Davey – Highway Maintenance Technician
- Victoria Hutchings – Amey Watchman
- Ian Banfield – Maintenance Team Leader
- Phil Lord – Property Information Officer

6 KEY ISSUES ARISING FROM THE EVIDENCE

- 6.1 from the results of the evidence provided to the panel the following key themes emerged–
- 6.1.1 there was not a clear and concise approach to the coordination of the winter maintenance regime for non HMPE land; this resulted in a reactive and unreliable response which often affected the Transport & Highways Partnerships salt stocks;
- 6.1.2 Council departments did not have a co-ordinated approach to the procurement of salt, hence not providing value for money;
- 6.1.3 Council departments did not have a co-ordinated or formalised approach to the allocation or distribution of salt;
- 6.1.4 there was no robust policy or criteria for the location of additional grit supplies such as grit bins or bags;
- 6.1.5 the Prince Rock depot has an unutilized salt barn and would be an obvious resource in storing salt for the winter over and above the supplies maintained by the Transport & Highways Partnership;
- 6.1.6 that primary and secondary routes are gritted, but there was no clear criteria beyond this.

7 FINDINGS

The panel was assured of the arrangements in place with the Transport & Highways Partnership to protect the priority primary and secondary gritting routes across the city. The panel received and endorsed the rationale for treating the main roads in Plymouth first and only applying post treatment to the footpaths if resources are available. The panel also received information on a number of additional sites, such as Crematorium, Ferry port, NHS Derriford, where the Transport & Highways Partnership provided additional chargeable services.

The panel identified however, that there is no strategic co-ordination for the management of non HMPE (highways maintainable at public expense) land or gritting provision to ensure safe access/ egress to corporate buildings, nor those of our partner organisations. Historically arrangements have been very reactive and usually late and unplanned and result in undue pressure on the salt supplies held by the T & H Partnership. This un-coordinated activity also includes un-controlled ad-hoc purchasing of salt supplies by council departments at considerably higher prices during the peak times and in the last two years has resulted in treatment of non HMPE land being dictated by salt stocks alone, rather than by identified priority need.

8 RECOMMENDATIONS AND REASONS

1. That the Council make best use of the salt barn at Prince Rock and procure additional salt provision. This will guarantee greater capacity for the city wide gritting service and as a purchase of an asset should be regarded as a financial investment. The ability to treat areas of high footfall and high dependency will reduce the negative impact on the economy in the event of another harsh winter. The panel recommends that the salt be purchased soonest to secure the lower rates per tonnage and as salt is not perishable can be sold on at a later date.
2. That the Departments of Corporate Support and Development & Regeneration be responsible for the development of the business case for the actual salt procurement and the development and implementation of an operating model that will ensure optimum value for money This will include the responsibility and arrangements for the distribution and spreading of the supplies to non HMPE locations and the identification of corporate resources.
3. That PCC develop a Gritting Policy which will identify and prioritise needs over and above the existing Transport & Highways Winter Service plan that primarily deals with primary and secondary network routes. The policy which will be developed over time, will state criteria for the prioritisation of non HMPE and provide a clear transparent strategy for specific areas of the city to be treated ahead of others. To develop these criteria, officers will consider;
 - Areas of high footfall
 - Areas of high dependency
 - Ward Councillors feedback on specific hot spots within their wards, which should be considered as a priority and why
 - The views of residents at neighbourhood meetings
4. That Ward Councillors be asked to review existing grit bin sites in co-operation with the Transport & Highways partnership, and in accordance with the newly developing criteria. This will help determine the most appropriate provision for hot spot areas e.g. salt bins, salt bags or additional gritting to ensure the most cost effective treatment.
5. That PCC has a role in the strategic co-ordination and planning for gritting and supplies across the city by partner organisations such as NHS Derriford, Fire Service. That the appropriate PCC lead officer be identified to review previous ad-hoc demand for salt and to identify lead officers in partner organisations with whom we can work to ensure that key high risks areas across the city are identified.

REQUEST FOR SCRUTINY WORK PROGRAMME ITEM



	Title of Work Programme Item	Review of Winter Maintenance Preparation: Gritting rounds and salt bins
2	Responsible Director (s)	Anthony Payne : Director for Development & Regeneration
3	Responsible Officer Tel No.	Tom White : Head of Network Management, Transport & Highways 01752 304256
4	Relevant Cabinet Member(s)	Cabinet Member for Transport
5	Objectives	Scrutiny members will gain a better understanding of: <ul style="list-style-type: none"> • The highway network and class of routes • Resources • Current locations/ routes (including non HMPE land) • Current assessment criteria • Comparison with other unitary authorities • Industry standards
6	Who will benefit?	The review will benefit the Council and Plymouth residents by reviewing current practice and value for money
7	Criteria for Choosing Topics (see table at end of document)	A high level of public interest, due to the icy conditions during the last two winters. <ul style="list-style-type: none"> • Issues consistently identified by Members as key through constituency activity • Public interest issue covered in local media
8	What will happen if we don't do this review?	The current Winter Maintenance Preparation programme will continue as normal.

9	What are we going to do?	<p>The scrutiny will review the current locations and arrangements for the gritting of the road network and pavements across the city and consider the assessment criteria to seek a fit for purpose winter maintenance programme.</p> <p>Overview of current provision including all non HMPE salt bins; Overview of current routes gritted; Review of current assessment criteria; Obtaining and understanding local and national comparators and Industry standard; Consideration of value for money;</p>
10	How are we going to do it? (witnesses, site visits, background information etc.)	Site visits, officer presentations, background information
11	What we won't do.	The scrutiny will exclude any activity that does not fall within the criteria of winter maintenance preparation.
12	Timetable & Key Dates	August/September 2011
13	Links to other projects or initiatives / plans	n/a
14	Relevant Overview and Scrutiny Panel / Membership if Task and Finish Group (to be decided by OSP before submission to OMB)	Growth and Prosperity Overview & Scrutiny Panel
15	Where will the report go? Who will make the final decision	To the scheduled meeting dates of the panel, the Overview and Scrutiny Management Board and Cabinet /Council
16	Resources (staffing, research, experts, sites visits and so on)	Plymouth City Council staff resources Amey staff resources
17	Is this part of a statutory responsibility on the panel?	No
18	Should any other panel be involved in this review? If so who and why?	N/A
19	Will the task and finish group benefit from co-opting any person(s) onto the panel.	No
20	How does this link to corporate priorities?	Delivering Growth, Value for Communities.

Task and Finish Review 2011



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Scrutiny Task & Finish
Winter Maintenance

What is the service?



- Winter Season is October to April
- Pre treatment of the main roads in Plymouth
- Post treatment to footpaths (subject to resources), after roads, doing City Centre and shopping areas first, then by risk assessment.
- Maintaining 400+ grit bins (total 200t to refill).
- Clearance of snow off the main roads.
- Snow clearance on other roads after the main roads
- Snow clearance on footpaths if resources available

Legal implications and liabilities



- Duty to maintain the highway under the Highways Act, 1980 which embraces Winter service.
- Highway Authority for a highway maintainable at the public expense are under a duty to ensure, so far as is reasonably practicable, that safe passage along a highway is not endangered by snow or ice.

From the Winter Maintenance Operational Plan



- 14 pre-treatment routes have been defined - 7 Primary and 7 Secondary routes. These detail roads that are more heavily used or provide access to hospitals, fire stations etc.
- We pre-treat this defined network to prevent the formation of frost, ice or the laying of snow.
- 4 snow routes prioritise when snow is on the ground.
- Over 400 grit bins have been strategically placed across the network.
- We do not pre-salt the footway network.

We also support others in Plymouth



- Crematorium - supply of salt bins.
- Treatment to some park and rides.
- Ferry port - gritting
- Torpoint Ferry - treatment of parking area
- Corporate Property - treatment of Windsor House Car park, Prince Rock Depot and supply of 20t of salt
- Community Grant fund - additional green grit bins

Last year we also supported Schools, NHS Derriford, Police and Fire Brigades when their salt stocks ran out, and City Centre Company when they wanted their own salt.

Salt supply



- Last year we used a total of 1522 tonnes
- We now have in stock 870 tonnes
- As used we will re-order to maintain a 6 day reserve.
- We can call upon local support, e.g. DCC and Amey Hampshire contract
- Last year Central Gov “Salt Cell” controlled national distribution, setting up a 250,000t stockpile.
- Amey brought in shipments to Southampton to support.

Last year



- 36 Early morning inspections (EMI)
- 24 Primary routes actions
- 18 Secondary routes actions
- Snow ploughs and continuous action on 2 days.
- Replenished grit bins 3 times
- In general it takes 4 hours to treat the 7 primary and secondary routes
- EMI two gritters dispatched to check known wet spots and check the network. Can escalate if needed to full action.

Grit bins, over 400 and growing!



- Actually hold salt not grit
- Not all grit bins are HMPE
- Can become litter bins, some people complain they don't want them by their property, abused by others.
- In our plan we review annually but based on historic information and new requests are considered as follows:
 - On a already treated route? Then normally rejected
 - Is the location traffic sensitive, with high volume?
 - Is the location a repetitive accident / incident spot?
 - Is the location commensurate with other sites?

This year's review and recommendations



- Plymouths Growth agenda, new developments.
- Change in emergency services locations
- Revised guidance in terms of spread rates.
- Revised considerations, city centre and shopping area footway areas.
- Different plant, Multihog unit.

Ideas for consideration



- Stock pile for Corporate use? - PCC currently own a 3000t Salt Barn at Prince Rock , could this be better used.
- Grit Bin review - do we have too many? Are they in the right places? how do we consider new requests?
- Grit Bin Policy – to help us define how we deal with new requests

Register of Salt Bins and Piles			
Road / Street	Location (395 Salt bins)	Map Reference	Comments
Adams Close	Side of number 26 Kings Tamerton Road	7 E5	
Adams Close	outside number 28 Kings Tamerton Road	7 E5	
Almond Drive	Greenwood Park Road	15 G3	
Almond Drive	Outside number 41	15 G3	
Amados Drive	Merafield Drive	14 C5	
Amados Drive	Top end	14 C5	
Antony Gardens	Adjacent to number 87	11 G1	
Austin Crescent	Bircham View	13 E1	
Bampfylde Way	Bonville Road	4 B4	
Bardsey Close	Langley Crescent	5 E3	
Barndale Close	Barningham Crescent	5 E4	
Barne Close	Outside Mail Depot	10 A1	
Beacon Park Road	West Down Road	11 G 2	
Beare Close	Outside number 116	18 C6	
Beeston Walk	Side of number 1	13 E2	
Bellingham Crescent	Outside number 54	15 G5	
Bellingham Crescent	Totnes Close	15 G5	
Belliver Industrial Estate	Haxter Close	5 F1	
Belliver Industrial Estate	Porsham Close	5 F1	
Belliver Industrial Estate	Roundabout lamp post 20	5 F1	
Berwick Avenue	Dingwall Avenue	8 B4	
Bircham View	South side at first junction	9 F6	
Blackmore Crescent	Hancock	4 B4	
Blackstone Close	Opposite Netton Close	19 H5	
Bloomball Close	Windsor Road	12 D3	
Bodmin Road	Carlisle Road	8 A3	
Bodmin Road	Junction Warwick Avenue	9 A3	
Boringdon Hill	Opposite Devonia Close	14 D2	
Braemar Close	Outside number 9	15 H5	
Brean Down Close	Outside number 1	12 A3	
Brean Down Road	Ludlow Gardens	12 A2	
Brean Down Road	Burleigh Lane	12 A2	
Brest Road	Tavistock Road	8 D3	
Bridwell Road	Near Northumberland Street	10 C1	
Bridwell Road	Church Way at top end	10 C1	
Broadley Park Road	Junction near Belliver Industrial Estate	5 F1	
Broughton Close	Lockington Avenue	12 B2	
Brynmoor Walk	In turning head	12 C3	
Budshead Road	Dayton Close	8 B4	
Budshead Road	Westbury Close	8 A3	
Budshead Road	Near lamp post number 38	9 A3	
Budshead Road	Opposite lamp post number 39	10 A3	
Budshead Road	Lamp post 30	11 A3	

Budshead Road	Outside number 115	12 A3	
Buena Vista Close	Buena Vista Drive	5 G4	
Buena Vista Close	Buena Vista Way	5 G4	
Burleigh Lane	Berrow Park Road	11 H2	
Burnett Road	Opposite lamp post number 7	12 B1	
Burnett Road	Drax Gardens	12 B1	
Burnham Park Road	Brent Knoll Road	11 H2	
Burrow Hill	Outside number 10	19 E5	
Byron Avenue	Outside number 29	7 G5	
Camperdown Street	Outside number 43	16 B1	
Campion View	Lamp post 1	5 H2	
Cann Wood View	Lamp post 1	5 H3	
Challock Close	Rogate Drive	9 F2	
Charlton Road	Lansdowne Road	8 C4	
Charlton Road	Grosvenor Road	8 C4	
Cherry Tree Lane	St Maurice Lane	15 F5	
Chesterfield Road/Close	Outside number 61	12 D5	
Chivenor Avenue	Opposite 8, near Debden Close	6 C6	
Church Hill	Lamp post numbers 98 and 99	12 D1	
Church Park Road	Opposite number 2	5 H2	
Church Road	Pick Pie Drive	5 H2	
Church Road	Outside number 83	19 F4	
Church Road	Lamp post number 10	19 F4	
Clifton Avenue	Rashleigh Avenue	14 D2	
Colebrook Lane	Boringdon Hill	14 D2	
Colesdown Hill	Below lamp post First Avenue	19 G3	
Colesdown Hill	Second Avenue	19 G3	
Colesdown Hill	Near Wixenford Farm	19 G3	
Colwill Road	Chelson Gardens	9 H4	
Colwill Road	Outside vets	9 H4	
Combley Drive	Durriss Close	9 G3	
Compass Drive	Opposite Newnham Drive	15 F2	
Copse Road	Drunken Bridge Hill	14 C5	
Copse Road	Rear of number 51	14 C5	
Cornwood Road	The Spinney	15 G5	
Coronation Place	Cardinal Avenue	6 D6	
Cot Hill	Dudley Road	14 B4	
Coypool	Car park	13 H2	
Coypool	By Railway level crossing	13 H2	
Cressbrook Drive	Opposite lamp post DR	9 H4	
Crossway	Plymbridge Road	14 C2	
Crownhill Road	By footway to Selkirk Place	8 B4	
Culver Way	Lamp post number 5	12 B1	
Danum Drive	Lotherton Close	15 G6	
Dark Street Lane	Underwood Road	14 D4	
Darwin Crescent	Outside number 9	13 F4	
Dean Hill	Outside number 38/42	19 F4	
Deer Park	Oregon Way	13 E3	
Donnington Drive	Eggbuckland Road	12 D2	
Donnington Drive	Upton Close	12 D2	
Dove Gardens	Outside shop	13 E3	
Duloe Gardens	Antony Gardens	11 G1	

Dunclair Park	Outside Residential Home	13 F4	
Dunnet Road	Lamp post P985	8 A1	
Dunraven Drive	Moorland View	8 C1	
Dunster Close	Outside number 7	15 H5	
Dunstone Road	Crownhill Road	7 E4	
Dunstone View	Dunstone Lane	19 G4	
Earlswood Drive	Plymbridge Road	9 H3	
Efford Lane	Chesterfield Road	12 D5	
Eggbuckland Road	By lamp post number 28	12 D1	
Eggbuckland Road	Eastfield Crescent opposite 4	12 C2	
Elburton Road	Alexandra Close	19 H3	
Elford Crescent	Outside number 165	15 E2	
Erlstoke Close	Freshford Walk	9 F6	
Fairview Avenue	Darwin Crescent	13 F4	
Fairview Avenue	Manor Lane	13 F4	
Fairview Way	Fairview Avenue	13 F4	
Farnley Close	Opposite number 24	5 E4	
Flamborough Road	Clittaford Road	4 D3	
Fletemoor Road	Moor Lane	6 D6	
Fletemoor Road	Outside number 120	6 D6	
Ford Hill	Opposite Browning Street	11 E4	
Forder Heights	Fort Austin Avenue	9 E5	
Foresters Road	Outside number 20	19 E4	
Foresters Road	Outside number 42	19 E4	
Foresters Road	Lamp post number 1	19 E4	
Fort Austin Avenue	Outside School	8 C5	
Fosbrooke Court	Side of number 69	12 B4	
Fountains Crescent	Outside number 122	11 G1	
Fountains Crescent	Outside number 44 junction of Springhill	11 G1	
Frensham Gardens	Outside number 15	5 F3	
Freshford Walk	Eastlake Close	9 F5	
Frontfield Crescent	Coplestone Road	8 A1	
Frontfield Crescent	By street nameplate at top	8 A1	
Furzehatt Avenue	Furzehatt Rise	19 G5	
Furzehatt Avenue	Shute Park Road	19 G5	
Geasons Lane	Outside School	14 D4	
Glen Road	Outside number 33	14 D3	
Glen Road	Parkstone Lane	14 D3	
Godding Gardens	Reddicliff Close	4 C4	
Goosewell Hill	Outside number 37	12 D1	
Goosewell Park	Road Shute Park Road	19 G5	
Goosewell Road	Holmwood Avenue bottom end	19 G5	
Goosewell Road	Lower Park Drive	19 G6	
Goswela Gardens	Goswela Close	19 G6	
Goswela Gardens	Staddon Park Road	19 G6	
Grantham Close	Outside number 3	14 B4	
Grantley Gardens	Outside number 4/5	12 C5	
Greatfield Road	Outside number 23	12 D2	
Greenacres	Billacombe Road	19 F3	
Greenacres	Garden Village	19 F3	
Greenbank Road	Just up from Lipson Road	3 D1	
Greenbank Road	Opposite Clifton Place	3 D1	

Greenwood Park Close	Lamp post number 1	15 G3	
Greenwood Park Road	Near Raleigh Court	15 G3	
Greenwood Park Road	Lamp post number 14	15 G3	
Greenwood Park Road	Outside number 55	15 G3	
Greenwood Park Road	Lamp post number 19	15 G3	
Grimspound Close	Lamp post number 13	13 G1	
Grimspound Close	Side of lamp post number 15	13 G1	
Gwyn Road	Near lamp post number 7	18 B1	
Hallerton Close	Lamp post number 1442	9 G5	
Ham Close	Opposite lamp post number 2	12 G1	
Ham Drive	By lamp post 64 junction of Langstone Road	11 E2	
Ham Lane	Above old Depot on hill	11 F 1	
Hartford Place	Outside number 11	10 C1	
Hartley Road	Mannamead Road	12 A3	
Hartwell Avenue	Sherford Road	20 C4	
Hawkinge Gardens	Outside number 91	6 D2	
Hawkinge Gardens	Near lamp post number 4	6 D2	
Hawthorn Way	Opposite number 12	12 D2	
Haye Road	By King George V playing fields	20 B3	
Haye Road	South Car park entrance	20 B4	
Healy Place	Garden Street	16 B1	
Healy Place	Pentamar Street	16 B1	
Hemerdon Heights	Outside number 152	15 F3	
Hemerdon Heights	Footway above number 217	15 F3	
Hessary Drive		5 F2	
Hessary Drive		5 F2	
Hessary Drive		5 F2	
Hickory Drive	Redwood Drive	15 G4	
Highclere Gardens	By lane	5 F3	
Hillcrest Drive	Wolridge Avenue	15 F4	
Hillcrest Drive	Ridgeway	15 F5	
Holly Park Drive	Milford Lane	7 F1	
Holly Park Drive	Lamp post 868	7 F1	
Hollycroft Road	Opposite number 38	12 C2	
Holmwood Avenue	Goosewell Road at top	19 G6	
Holne Chase	Prestonbury Close	5 E3	
Homer Park	Hooe Road	18 D6	
Hooe Hill	Sharrose Close	18 C6	
Hooe Hill	Bell Vue Close	18 C6	
Hooksbury Avenue	Neal Close	15 G5	
Horsham Lane	Mary Dean Avenue	4 A3	
Hosford Close	Coleman Drive	19 G6	
Humber Close	Deer Park Drive	13 F3	
Jackson Close	York Road	10 D1	
James Street	Outside Tamar House	16 B4	
James Street	Outside Lynher House	16 B4	
Jasmine Gardens	Side of number 16	15 H4	

Jasmine Gardens	Greenwood Park Road	15 H4	
Kenmare Drive	Hillcrest Drive	15 F4	
Kenmare Drive	Opposite number 82	15 F4	
Kenmare Drive	Outside number 102	15 F4	
Kenmare Drive	By lamp post 10 Z2096	15 F4	
Kennel Hill Close	Copse Road	14 C4	
Keswick Crescent	Miller Way Asda end	9 F4	
Keswick Crescent	Opposite number 171 in car park	9 F4	
Kirkwall Road	Budshead Road	8 A4	
Kitter Drive	Opposite number 77	19 G6	
Knapps Close	Opposite Sherborn Close	20 B5	
Knapps Close	Cul-De-Sac end	20 B5	
Kneele Gardens	Mannamead Road	12 A1	
Lake View Close	Outside number 47	7 F1	
Lake View Drive	Outside numbers 65/67	7 F1	
Lake View Road	Opposite number 61	7 F1	
Lakeside Drive	Outside number 12	6 C2	
Landulph Gardens	Junction near lamp post 1	10 B1	
Langdale Gardens	Langdale Close	9 G5	
Langley Crescent	In Langley Close side of 152	4 B3	
Larkham Lane	Plymbridge Road	14 B3	
Larkham Lane	The Dell	14 B3	
Leatfield Drive	Windermere Crescent	8 B2	
Leypark Drive	Opposite lamp post number 5	9 G4	
Leypark Walk	Opposite Community Centre	9 G4	
Linketty Lane West	West Lamp post numbers 1 & 8	12 B1	
Linton Road		4 A3	
Lipson Vale Lane	rear of Chudleigh Road	12 C5	
Little Ash Road	Outside number 4	6 A5	
Lockington Avenue	Dynevor Close	12 B2	
Long Ley	Higher Mowles	12 D3	
Long Meadow	Meadow View	14 D2	
Long Park Drive	Riverford Close	5 G3	
Looseleigh Park	Outside number 2	8 B1	
Loughborough Road	Stanhope Road	6 B5	
Lower Farm Road	Meadow Rise	15 F5	
Lucas Lane	Opposite lamp post 8	14 C3	
Ludlow Road	Berrow Park Road	11 H2	
Lynwood Avenue	Outside number 68	14 A3	
Lynwood Avenue	Outside number 1	14 A3	
Maddock Drive	Yealmpstone Close	15 G5	
Maidenwell Road	Underlane	14 C4	
Mallard Close	Outside number 10	15 E4	
Manadon Drive	St Peters Drive	12 A1	
Manifold Gardens	Pike Road	13 F4	
Manor Park	Outside number 2	15 F4	
Marrett Road	Outside number 20	7 E4	
Meadow Way	Outside number 64	14 C2	
Medland Crescent	Hurrell Close	4 B4	
Merafield Rise	By bus stop	14 C4	
Milford Lane	Truro Drive by lamp post 1	7 F1	
Milford Lane	In the narrows	7 F1	
Miller Way	Langdale Gardens	9 F2	

Miller Way	Opposite lamp post number 25	9 F2	
Millwood Drive	By street nameplate	9 H6	
Millwood Drive	Shell Close	9 H6	
Moor Lane	Ferrers Road	6 D6	
Moses Close	Dunnet Road	4 C3	
Moses Close	Clifford View	4 C3	
Mowhay Road	Opposite number 15	7 E6	
New Park Road	Outside number 3	15 F5	
Norfolk Road	Side of number 31	13 E4	
Normandy Hill	Pemros Road	6 A5	
Northampton Close	Lamp post number 1	7 F2	
Old Laira Road	Outside St Marys Church	12 D5	
Old Laira Road	Opposite Wycliffe Road	12 D5	
Oregon Way	Opposite lamp post 10	13 E3	
Oregon Way	Lamp post number 1	13 E3	
Pattinson Drive	Pattinson Close	9 G4	
Peeks Avenue	Church Road	19 G4	
Pendeen Crescent	Outside number 63	4 D4	
Penrith Gardens	Miller Way Asda End	9 F3	
Peters Close	Outside number 17	20 A4	
Peters Park Close	Peters Park Lane	6 D5	
Petersfield Close	Eggbuckland Road	12 D5	
Pike Road	Outside number 67	13 E4	
Pike Road	Opposite number 96	13 E4	
Pike Road	Opposite shops	13 E4	
Pinewood Drive	Opposite number 41	5 H3	
Plymbridge Road	Earlwood Drive	9 H3	
Plymbridge Road	Outside Treverbyn House	14 C3	
Pode Drive	Edwards Close	15 G5	
Pode Drive	Opposite number 36	15 G5	
Pode Drive	Bellingham Crescent	15 G5	
Pollard Close	Lalebrick Road	18 C6	
Pollard Close	Lamp post number 6	18 C6	
Powis Gardens	Farm Lane	7 G4	
Powisland Drive	Looseleigh Lane	8 C2	
Powisland Drive	Lamp post number 30	8 C2	
Prince Maurice Road	Salcombe Road	12 B5	
Quarry Park Road	Rollis Park Road	19 E4	
Rashleigh Avenue	Delacombe Close	15 E2	
Raphael Drive	Hogarth Walk	19 G5	
Reddicliff Road	Rowland Close	18 D6	
Reddicliff Road	Reddicliff Close	19 E6	
Reddicliff Road	Broom Park	18 D6	
Reddington Road	Hollycroft Road	12 C2	
Reddington Road	Opposite number 39	12 C2	
Rendlesham Gardens	Dover Road	9 G4	
Reservoir Road	South of Stanborough Road	19 H5	
Reservoir Road	Outside number 10	19 H5	
Reservoir Road	Lamp post number 11	19 H5	
Reservoir Way	Reservoir Crescent	20 A4	
Ridgeway	Maddock Drive	15 G5	
Roborough Avenue	Powisland Drive	8 C2	
Rochford Close	Junction lamp post number 30	7 E2	

Rochford Close	Junction of Westhampnett Place	8 E2	
Romilly Gardens	Robert Adams Close number 5	14 A4	
Romilly Gardens	Morley Close	14 A4	
Rosewood Close	Greenhill Close	19 G6	
Rowan Way	Opposite Maple Way	5 H3	
Russet Wood	By School entrance	7 E3	
Rydal Close	Opposite Rydal Close	9 F5	
Savage Road	Poole Park Road	10 B1	
Savage Road	Roope Close lamp post 10	10 B1	
School Close	Outside number 30	14 D2	
Sefton Avenue	Outside number 48	12 C5	
Sefton Avenue	Outside number 50	12 C5	
Sefton Avenue	Opposite number 130	12 C5	
Sefton Avenue	Opposite number 146	12 C5	
Sefton Avenue	Lipstone Crescent	12 C5	
Segrave Road	Lopes Road	11 F3	
Selkirk Place	At junction	8 B4	
Seymour Road	Compton Avenue	12 B2	
Sherford Road	Sherford Crescent	20 B4	
Sherford Road	Station Road	20 B4	
Sherford Road	Above Portway Close	20 B4	
Southgate Avenue	Outside number 17	19 F6	
Southgate Avenue	Tudor Close	19 F6	
Southgate Avenue	Outside number 9	19 F6	
Southgate Avenue	Southgate Close	19 F6	
Southway Drive	Opposite number 123	4 B5	
Speedwell Walk	Speedwell Crescent	12 D2	
Springhill Green	Outside number 19	11 G1	
St Budeaux By-Pass	Outside fire station	10 D1	
St Johns Road	Outside St Lukes Hospice	18 B4	
St Maurice Road	Hele Gardens	15 F5	
St Maurice View	Lamp post number 2	15 H5	
St Vincent Street	Outside number 4	10 D4	
Staddiscombe Road	Outside number 9 in verge opposite bus stop	19 G6	
Staddiscombe Road	Outside numbers 81/82	19 G6	
Staddiscombe Road	Outside number 57	19 G6	
Staddiscombe Road	Outside number 95	19 G6	
Staddiscombe Road	Opposite lamp post 36	19 G6	
Station Road	Tory Brook Residential Home	14 D3	
Station Road	Outside Tory Brook Residential Home	14 D3	
Station Road	Hillside Old Peoples Home	14 D3	
Steer Park Road	West Park Drive	15 H4	
Stefan Close	Lalebrick Road lamp post 6	18 C6	
Stentaway Road	Church Road	19 F4	
Stirling Road	Saltburn Road	6 B5	
Tamerton Close	Outside number 15	7 F1	
Tamerton Foliot Road	Opposite lamp post P1273	8 A1	
Tamerton Foliot Road	Opposite lamp post P1266	8 A1	
Tamerton Foliot Road	Foxwood Gardens lamp post 3A	8 A1	
Tamerton Road	Broadley Park Close	5 F1	
Taunton Avenue	Warwick Avenue	7 F1	

Tavistock Road	Opposite Turners Car Sales	5 F3	
Tern Gardens	Ridge Park Road	15 E4	
The Dell	Lamp post number 144	14 B3	
The Heathers	Lamp post number 7	5 G3	
Tithe Road	Off Woodford Avenue	14 A3	
Tor Lane	Outside Burleigh Manor	11 H2	
Towerfield Drive	Outside CSA lamp post 1	5 G2	
Turret Grove	Outside 118 Old Laira Road	12 B5	
Underhill Road	Outside Residential Home	16 D1	
Valley View Close	Deer Park Drive number 2	12 D3	
Valley View Road	Outside number 18	12 D2	
Valley View Road	Outside number 3	12 D2	
Vicarage Gardens	Normandy Hill	6 B5	
Vicarage Gardens	Junction opposite lamp post 1	6 B5	
Victoria Road	Outside number 230	6 C5	
Wain Park	Number 20	15 F5	
Waring Road	Near Dunnet Road	4 B3	
Wellhay Close	At junction	20 B5	
Wellsbourne Park	Outside number 12	12 C3	
Wembury Road	Opposite number 6	19 H5	
Wembury Road	Junction Coltness Road	19 H5	
Wembury Road	Opposite Coltness Road	19 H5	
Wensum Close	At junction	15 F4	
Wentwood Gardens	Miller Way	9 G4	
Western Drive	Castle Rise	12 D5	
Westfield	Outside school entrance	15 F3	
Westfield	Hemerdon Heights	15 F3	
Whin Bank Road	By lamp post E526	8 A4	
Whitsoncross Lane	Lamp post number 29	4 A3	
Wills Close	Opposite number 1	4 C3	
Windsor Road	Opposite R E Lucas & Son	12 D2	
Wolseley Road	Outside number 792 in Saltash Passage	6 A5	
Wolseley Road	Side of number 872	6 A5	
Wolverwood Lane	Aycliffe Gardens	15 G6	
Wolverwood Lane	Canefield Avenue	15 G6	
Wolverwood Lane	Burniston Close	15 G6	
Wolverwood Lane	St Stephens Road	15 F6	
Wood end Road	Opposite Meadowlands	5 G3	
Woodland Drive	Outside number 10	14 B4	
Woodland Drive	Amados Road	14 B4	
Woolwell Road	Lamp post number 15	5 G2	
Wycliffe Road	Opposite number 32	12 D5	
Wythburn Gardens	Lamp post number 2	9 G4	
York Road	Carlton Terrace	10 C1	

PRINCIPAL GRITTING NETWORK

Access Road to Train Station	P5	Clovelly Road	P1
Albert Road	P5	Clovelly Road	P2
Alexandra Road	P2	Clovelly Road	P4
Alexandra Road	P6	Cobourg Street	P4
Alma Road	P5	Cobourg Street	P5
Ashwood Park Road	P3	Colebrook Road	P3
Beacon Park Road	P5	Compton Park Road	P2
Beacon Park Road	P7	Cothill Road	P2
Beaumont Road	P1	Cothill Road	P3
Beaumont Road	P5	Coypool Road	P2
Beechwood Avenue	P7	Cremyll Street	P4
Belliver Way	P3	Cross Way	P3
Biggin Hill	P6	Crownhill Road	P2
Billacombe R/B	P1	CrownHill Road	P6
Billacombe Road	P1	Crownhill Road	P7
Blandford Road	P2	Cunningham Road	P6
Boringdon Hill	P3	Dale Road	P7
Boringdon Road	P3	Dean Cross	P1
Bovisand Lane	P1	Dean Cross Road	P1
Bovisand Road	P1	Dean Hill	P1
Brentonside	P4	Deep Lane	P2
Brest Road	P7	Derriford Hospital	P7
Broadley Park Road	P3	Derriford R/B	P3
Budhead Road Slip Road	P7	Derriford R/B	P7
Budhead Way	P2	Derriford Road	P7
Budshead Road	P6	Derry Cross	P4
Budshead Way R/B	P6	Devonport Hill	P4
Caroline Place	P4	Drake Circus	P4
Cattedown R/B	P1	Dunnet Road	P6
Cattedown R/B	P3	Durnford Street	P4
Cattedown Road	P2	Eagle Road	P3
Cattedown Road	P3	Eastern Wood Road	P3
Centre Park Avenue	P7	Ebrington Street	P5
Chapel Street	P4	Egerton Road	P6
Charles Cross	P5	Eggbuckland Road	P6
Charles Cross R/B	P4	Elburton Road	P1
Charles Street	P5	Elliot Road	P4
Charles Street	P4	Embankment Road	P3
Charnhill Way	P1	Embankment Road	P1
Chumberland Road	P4	Emma Place	P4
Church Hill	P6	Ernesettle Lane	P6
Church Hill Road	P1	Exeter Street	P5
Church Road	P1	Exeter Street	P4
Clarence Place	P4	Ferndale Road	
Cliffatford Road	P3	Ferry Road	P5
Cliffatford Road	P6	Finnigan Road	P4

Ford Hill	P4	Kinterbury Street	P4
Ford Park Road	P7	Knighton Road	P6
Forder Valley R/B	P3	Laira Bridge	P1
Forder Valley Road	P2	Laira Bridge Road	P1
Forder Valley Road	P3	Laira Bridge Road	P4
Fore Street	P4	Langage R/B	P3
Fore Street	P6	Langstone Road	P7
Fort Austin Avenue	P2	Lanhydrock Road	P6
Fort Austin Avenue	P6	Larkham Lane	P3
Fort Austin Avenue	P7	Lawrence Road	P1
Furzehatt Road	P1	Linton Close	P6
Gasking Street	P5	Linton Road	P6
Gdynia Way	P2	Lipson Hill	P1
George Lane	P2	Lipson Hill	P6
Glen Road	P2	Lipson Road	P1
Glen Road	P3	Lipson Road	P5
Golden Square	P3	Lipson Road	P6
Goosewell Road	P1	Little Dock Lane	P6
Greenbank Avenue	P6	Longbridge Road	P3
Greenbank Road	P2	Longbrook Street	P2
Greenbank Road	P7	Longcause	P2
Gydnia Way	P3	Longfield Place	P1
Gydnia Way	P4	Lower Compton Road	P2
Gydnia Way	P5	Lucas Lane	P3
Ham Drive	P5	Macadam Road	P1
Ham Drive	P7	Macadam Road	P2
Haye Road	P2	Macadam Road	P4
Hele Terrace	P4	Manadon R/B	P6
Heles Terrace traffic lights	P1	Manadon R/B	P7
Hender's Corner	P6	Mannamead Road	P2
Henderson Place	P4	Mannamead Road	P6
High Street	P4	Maple Grove	P7
Hillcrest Drive	P3	Marshmills R/B	P3
Hoe Approach	P4	Martin Street	P4
Holland Road	P3	Maxwell Road	P4
Honicknowle Green	P2	Mayflower Street	P4
Honicknowle Green R/B	P6	Meavy Way	P7
Honicknowle Lane	P2	Meavy Way	P6
Honicknowle Lane	P6	Melville Road	P4
Hooe Road	P1	Merafeild Road	P2
Horn Cross	P1	Milehouse Junction	P7
Houndiscombe Road	P7	Milehouse Road	P4
Hyde Park Road	P7	Military Road	P6
Jennycliff Lane	P1	Millbay Road	P4
Jubilee Road	P6	Millbridge	P4
Keyham Road	P5	Molesworth Road	P4
Kings Road R/B	P4	Moorland Road	P2
Kings Street	P4	Morshead Road	P7

Mount Gould Road	P1	Shakespeare Road	P2
Mudge Way	P2	Shallowford Road	P6
Mutley Plain	P5	Shapters Road	P2
Mutley Plain	P6	Shapters Road	P4
Mutley Plain	P7	Shapter's Road	P5
New Park Road	P2	Southway Drive	P3
New Passage Hill	P5	Southway Drive	P6
Newnham Road	P3	Springfield Road	P1
North Cross R/B	P4	St Andrew's Cross R/B	P4
North Hill	P5	St Aubuyn Road	P5
North Prospect Road	P7	St Budeaux By-Pass	P5
North Prospect Road	P5	St Budeaux Square	P5
Northolt Avenue	P6	St John's Road	P1
Notte Street	P4	St Levan Road	P4
Novorossisk Road	P3	St Levan Road R/B	P5
Oakfeild Terrace Road	P4	St Maurice Road	P2
Octagon Street	P4	St Modwen Road	P3
Old Laira Road	P2	St Peter's Road	P2
Old Laira Road (Slip Road)	P3	St Peter's Road	P6
Outland Road	P2	St Stephen Road	P2
Outland Road	P5	Staddiscombe Road	P1
Outland Road	P7	Staddon Lane	P1
Paradise Road	P4	Stamford Lane	P1
Park Avenue	P4	Stanborough Cross	P1
Park Avenue	P5	Stanborough Cross	P2
Parkway (Service Road)	P3	Stanborough Road	P1
Pemros Road	P5	Steer Park Road	P3
Pennycombequick R/B	P5	Stoke Road	P4
Pennycombequick R/B	P7	Stonehouse Bridge	P4
Peverell Park Road	P7	Stonehouse Street	P4
Pike Road	P2	Strode Road	P3
Plumer Road	P2	Stuart Road	P4
Plumer Road	P7	Sutherland Road	P7
Plymbridge Lane	P7	Tamerton Foliot Road	P6
Plymbridge Road	P3	Tamerton Road	P3
Plymouth Road	P2	Tavistock Road	P2
Plymouth Road	P3	Tavistock Road	P3
Pomphlett Road	P1	Tavistock Road	P6
Queens Road	P1	Tavistock Road	P7
Radford Park Road	P1	The Crescent	P4
Reservoir Road	P1	The Octagon	P4
Ridgeway	P2	The Parkway Flyover	P5
Roman Way	P5	The Viaduct	P4
Royal Parade	P4	Tor Lane	P2
Saltash Road	P5	Tothill Avenue	P2
Saltash Road T/L	P5	Tothill Avenue	P6
Sandy Road	P3	Tothill Road	P2
Seagrave Road	P5	Tothill Road	P6

Trelawny Place	P5
Trevithick Road	P5
Underlane	P1
Union Street	P4
Uxbridge Drive	P6
Vauxhall Street	P4
Victoria Road	P5
Victoria Road	P7
Wembury Road	P1
Western Approach	P4
Western Wood Road	P3
Weston Mill Road	P5
Whitsoncross Lane	P6
William Prance Road	P7
Wilton Road	P4
Wilton Street	P4
Wolseley Road	P4
Wolseley Road	P5
Wolseley Road	P7
Wolverwood Lane	P2
Woolwell R/B	P3
Yeomans Way	P2

EMERGENCY ROUTE NO 1

- TRAVEL** Out of Depot. Travel to Cattedown R/b.
- GRIT** Cattedown R/b to Embankment Road to Laira Bridge Road to Billacombe R/b **CIRCULATE** to Haye Road R/b **CIRCULATE** to Elburton R/b **CIRCULATE** and **RETURN** to Elburton Road **GRIT THROUGH** to Gdynia Way and Cattedown R/b.
- TRAVEL** Embankment Road to Prince Rock School.
- GRIT** Embankment Road to Marsh Mills R/b **CIRCULATE** to Plymouth Road to St Marys Bridge to the Ridgeway to Sandy Road R/b **CIRCULATE** to Sandy Road to Langage R/b **CIRCULATE** to Glen Road to Hillcrest Drive **TURN LEFT** at Hillcrest Drive to the Ridgeway R/b **CIRCULATE** and **RETURN** to Hillcrest Drive to Glen Road through dual carriageway section to Strode Road R/b **CIRCULATE RETURN** to dual carriageway and **GRIT** other side **U/TURN** at end of Dual carriageway.
- TRAVEL** **RETURN** to Strode Road R/b.
- GRIT** Glen Road to St Marys Bridge.
- TRAVEL** St Marys Bridge to Plymouth Road to start of Dual Carriageway.
- GRIT** Plymouth Road to Marsh Mills R/b to Embankment Road to Gdynia Way **BEAR RIGHT** to Heles Terrace to Laira Bridge Road **T/Lights TURN RIGHT** to pass Prince Rock School to Embankment Road to Cattedown R/b.
- TRAVEL** **RETURN TO DEPOT**

EMERGENCY ROUTE NO 2

TRAVEL Out of Depot. Travel to Charles Cross R/b

GRIT The Viaduct to Royal Parade to Union Street to Stonehouse Bridge to Cumberland Road to Park Avenue to Ferry Road **TURN LEFT CIRCULATE** to Ferry Entrance and **RETURN** to Park Avenue **TURN LEFT** to Albert Road Turn Left to Albert Road to Keyham Road to Saltash Road to Wolseley Road **TURN LEFT** to St Budeaux Square to Victoria Road to Victoria Road R/B **CIRCULATE** and **RETURN** to St Budeaux Square to Wolseley Road to Camels Head **TURN LEFT** to St Budeaux By-Pass to R/b **CIRCULATE** and **RETURN** to Camels Head **TURN LEFT** to Wolseley Road to Milehouse traffic lights to Citybus Depot **CIRCULATE DEPOT RETURN** to Milehouse traffic lights and Camels Head traffic lights to Saltash Road.

TRAVEL Saltash Road to St Levan Road, **TURN LEFT**.

GRIT St Levan Road to Wolseley Road R/b **CIRCULATE** and **RETURN** to St Levan Road to Bartholomew Road **TURN LEFT** to Milehouse Road **TURN RIGHT** to the traffic lights through to Devonport Road to Albert Road **TURN RIGHT** to Park Avenue **TURN LEFT**.

TRAVEL Park Avenue to Fore Street.

GRIT Fore street to Paradise Road to Kings Road **TURN RIGHT** to Stonehouse Bridge **TURN LEFT** to Union Street to Western Approach **TURN LEFT** to North Cross R/b **CIRCULATE RETURN** to Western Approach to Union Street **TURN LEFT** to Royal Parade to the Viaduct.

TRAVEL **RETURN TO DEPOT**

EMERGENCY ROUTE NO 3

TRAVEL Out of Depot. Travel to Marsh Mills R/b

GRIT Marsh Mills R/b to Slip Road Delamere R/b **CIRCULATE** R/b to Forder Valley Road to Crownhill Road to Meavy Way **TURN LEFT** to Tavistock Road **TURN LEFT** to Budshead Road to Budshead Way to Crownhill Road **TURN LEFT** to Plumer Road **TURN LEFT** to Tavistock Road to Morshead Road **TURN LEFT** to Crownhill shops to Crownhill Road **TURN LEFT** Crownhill Road to Victoria Road R/b **CIRCULATE** and **RETURN** to Forder Valley to Novorossisk Road **TURN LEFT** to Wrigleys R/b **TURN LEFT** to Plymbridge Road to Tavistock Road **TURN LEFT** to Southway Drive **TURN RIGHT** to Tamerton Foliot Road **TURN RIGHT** to Southway Drive (dual carriageway) **RETURN** to Tavistock Road **TURN LEFT** to Plymbridge Road to Novorossisk Road to Forder Valley to Delamere R/b

TRAVEL **RETURN TO DEPOT**

EMERGENCY ROUTE NO 4

TRAVEL Out of Depot. Travel to Cattedown R/b

GRIT Cattedown R/B to Exeter Street to Charles Cross R/b to Drake Circus R/b to Pennycomquick R/b to Alma Road to Milehouse traffic lights **TURN RIGHT** to Outland Road through to Tavistock Road to the boundary at Roborough R/b **CIRCULATE** and **RETURN** to Tavistock Road to Milehouse traffic lights **TURN LEFT** to Alma Road and **RETURN ROUTE** to Cattedown R/b **TURN LEFT** to Lipson Road to Mutley Plain Hyde Park Hotel **CIRCULATE** to Mannamead Road to the Golden Hind R/b **CIRCULATE** and **RETURN** to Mutley Plain to North Hill traffic lights **TURN RIGHT** to North Hill and to Drake Circus R/b **CIRCULATE** and **RETURN** to Mutley Plain to Alexandra Road to Old Laira Road to Embankment Road.

TRAVEL **RETURN TO DEPOT**

Winter Service Benchmarking with SW Authorities – 2010/11

Authority	Maximum salt storage capacity (tonnes)	Winter maintenance spend (£000's)	Population	Road Length (Km)	Cost per capita (£'s)	Cost per Km (£'s)
Bath and North East Somerset Council	1,500	663,000	177,738	930.20	3.73	712.75
Borough of Poole	1,200	239,000	141,200.00	481.80	1.69	496.06
Bournemouth Borough Council	1,000	151,000	168,100	474.10	0.90	318.50
Bristol City Council	2,500	412,000	441,300	1,089.00	0.93	378.33
Cornwall County Council	15,681	INA	INA	INA	INA	INA
Devon County Council	25,200	INA	INA	INA	INA	INA
Dorset County Council	10,400	INA	INA	INA	INA	INA
Gloucestershire County Council	9,650	2,310,000	593,500	4,403.00	3.89	524.64
North Somerset Council	2,000	609,000	209,100	1,026.70	2.91	593.16
Plymouth City Council	900	481,000	256,700	805.80	1.87	596.92
Somerset County Council	9,000	2,449,000	530,200	5,962.80	4.62	410.71
South Gloucestershire Council	6,000	688,000	264,800	1,338.00	2.60	514.20
Swindon Borough Council	5,000	INA	192,900	815.00	INA	INA
Torbay Council	3,000	380,000	134,000	523.00	2.84	726.58
Wiltshire County Council	17,000	4,054,000	455,450	3,864.00	8.90	1,049.17

INA = Information not available