



# Portsmouth Public Highway PFI



## Winter Maintenance Operational Plan 2013-14

# Contents

## Document control and distribution

### **Section 1 – Scope**

- 1.1 Introduction
- 1.2 Requirement to produce a plan
- 1.3 Objectives
- 1.4 Policy framework (statement of Service)
- 1.5 Contractual arrangements
- 1.6 Network
- 1.7 Plan maintenance

### **Section 2 - Operations**

- 2.1 Introduction
- 2.2 General Arrangements and Decision Making
- 2.3 Escalation

### **Section 3 –Treatments**

- 3.1 Carriageway Treatment
- 3.2 Footway Treatmen
- 3.3 De-Icing Treatment
- 3.4 Salt Bins
- 3.5 Snow Clearance

### **Section 4 – Weather Forecasting and Ice Prediction**

- 4.1 General Arrangements
- 4.2 Ice Prediction System
- 4.3 Records

### **Section 5 – Winter Weather Emergency Planning and Preparation**

- 5.1 Health and Safety
- 5.2 Mutual Aid
- 5.3 Review
- 5.4 Winter Service Timetable

### **Section 6 – Resources**

- 6.1 Introduction
- 6.2 Human Resources
- 6.3 Training
- 6.4 Winter Maintenance Exercise
- 6.5 Manning Levels
- 6.6 De-Icing Materials

### **Section 7 – Liaison and Communication**

- 7.1 Publicity
- 7.2 Reports
- 7.3 Medial Liaison
- 7.4 Internal Communication Arrangements

## Appendices

- A Other Plans Containing Colas Highway Management Roles and Responsibilities
- B Definitions and Abbreviations
- C Guidelines for Decision Making
- D Gold Zones, Bridges, Hollow Spots, Guildhall Square, Transport Hubs, Residential Homes, Hospitals, Emergency Services and Salt Bins locations
  - D1 Carriageway categories 1 and 2
  - D2 Carriageway emergency network
  - D3 Carriageway salting routes details
  - D4 Salt Bin Locations
  - D5 Salt Bin Checklist
- E Detailed identification of Footways leading to schools
  - E1 Detailed location of School Crossing Patrol
  - E2 Detailed identification of Footways leading to transport hubs
  - E3 Detailed identification of Footways leading to PCC managed residential homes
- F Equipment, Store and Salt Barn location
- G Winter Maintenance Preparation Plan
- H Reference documents
- I Vehicles and Plant schedules
- J Winter Maintenance Exercise Checklist
- K Winter Maintenance Gritting Standby Rota
  - K1 Winter Maintenance Duty Officer Rota
  - K2 Winter Maintenance Network Manager rota
- L Standard Forms and Daily Reports
- M Copy of relevant training records
- N Snow desk content
- O Section 8 Agreement between PCC and HCC

**Document Owner**

The owner is responsible for maintenance, upkeep and amendment of the document.

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**Document Control**

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## **Section 1 – Scope**

### **1.1 Introduction**

This winter service plan describes the policy, objectives, procedures and operational arrangements for the delivery of winter service on the Portsmouth City Council (PCC) public highway network. Ensign as the concessionaire & Colas as the main contractor have prepared this document as the annual Winter Service Plan for the 2013/2014 winter season.

The document serves a number of specific purposes:

#### **Policy Document**

The winter service plan sets out the Ensign's policy and objectives in the context of local service delivery.

#### **Contract Document**

The winter service plan outlines the key contractual responsibilities of the Ensign and their service provider, Colas.

#### **Quality Plan**

This winter service plan forms part of Colas' quality management system.

#### **Contingency Plan**

The winter service plan forms part of the Service Company's wider contingency arrangements.

#### **Operations Manual**

The winter service plan describes the processes, procedures and operational arrangements for those responsible for delivering winter services.

#### **Reference Document**

The winter service plan is a comprehensive reference document.

### **1.2 Requirement to produce a plan**

**1.2.1** The plan is produced in accordance with the requirement of the PFI Contract Performance Standard 3: Winter Service Operations. These requirements are in line with the Highways Act 1980 Amendment Clause 41 (1A), these place a duty on Highway Authorities, to ensure so far as reasonably practical, that safe passage along a highway is not endangered by snow and ice.

**1.2.2** This plan is in support of the national arrangements introduced following the implementation of the Civil Contingencies Act 2004, Regulations 2005. The supporting guidance and regulations to the Act set out clear expectations and responsibilities for Category One responders at the local level to ensure that

they are prepared to deal effectively with the full range of emergencies from localised Major Emergencies through to Catastrophic Events.

**1.2.3** Part 1 of the Civil Contingencies Act 2004 establishes a consistent level of civil protection activity across the United Kingdom. Category One Responders include the Emergency Services, Local Authorities and other agencies.

### **1.3 Objectives**

The objectives of this plan are:

- To provide a framework for the Colas Winter Maintenance Service Manager to manage routine winter maintenance.
- To detail those responsible for the operation and management of routine or specific weather emergencies.
- To provide a framework for the Contract to manage the Highway Services' response to a severe weather emergency as part of a multi-agency response.
- To detail those responsible for the operation and management of the Highways' response to a severe weather emergency as part of a multi-agency response.
- To identify plan activation triggers and the action to be taken.

### **1.4 Policy Framework (Statement of Service)**

*Policy:* It is PCC's and Colas' aim to ensure, so far as is reasonably practicable, that safe passage along the highway is not endangered by snow or ice.

Colas will implement PCC's policy in an efficient and safe manner and will endeavour, in so doing, to minimise delays to road users.

### **1.5 Contractual arrangements**

Role of PCC: The City Council is responsible for following:

- 1) Setting the overall policy on the provision of winter services
- 2) PCC to contact other internal services annually for updates on schools, residential homes etc for WMOP
- 3) Receiving notification of proposed actions or changes to proposed actions.
- 4) Overseeing operation management and performance
- 5) Agreeing the escalation mechanism and cessation of other PFI activities to deploy resources towards winter maintenance.
- 6) High-level liaison with the media
- 7) High-level liaison with elected representatives

- 8) Setting up of the Snow response Room to coordinate clearances across the city.
- 9) Through the Snow Response Room PCC to communicate internally and externally on bus routes affected, school closures & road closures
- 10) Presentation to external stakeholders prior to winter season on Winter Maintenance Plan and any changes.

Role of Ensign/Colas: Colas are responsible for following:

- 1) Development of the winter maintenance operational plan for Public Highway.
- 2) Implementation, execution and delivery of the winter maintenance plan.
- 3) Design of winter service treatment routes.
- 4) Procurement of weather forecasting services
- 5) Provision of ice prediction sensor stations.
- 6) Day to day decision-making and operational management.
- 7) Reporting to PCC
- 8) Provision of winter service compounds.
- 9) Provision of winter service vehicles, plant, labour and materials for Public Highway.
- 10) Maintenance and operation of vehicles, compounds and equipment.
- 11) Day to day liaison with the media in co-ordination with PCC.
- 12) Monitoring and reviewing performance

## **1.6 Network**

### **1.6.1 Description and extent of Network**

Colas are responsible for all adopted public highways network as described in the PFI contract. The Section 8 agreement with Hampshire County Council (HCC) is now signed and in place for cross boundary works.

### **1.6.2 Local Problem Areas**

The following areas have been identified as areas of risk, and will be salted whenever a Priority one salt run has been ordered.

Road	Extent
Christchurch Gardens	Carriageway
Oakhurst Gardens	Carriageway
Hilltop Crescent	Carriageway
Beverly Grove	Carriageway
Rectory Road	Carriageway
Mulberry Lane	Carriageway
Park Lane	Carriageway
Norway Road	Bridge/Carriageway
Copnor Road	Bridge/Carriageway



Road	Extent
St.Mary's Road	Bridge/Carriageway
Burrfields Road	Bridge/Carriageway
Isambard Brunel Road	Footway under Railway Bridge
Southampton Road	Rail Bridge
Eastern Road	Rail Bridge/Carriageway
Eastern Road	Water Bridge/Carriageway
Fratton Road	Rail Bridge/Carriageway
Somers Road	Rail Bridge/Carriageway
Holbrook Road	Rail Bridge/Carriageway
Northern Road	Rail Bridge/Carriageway
Walton Road	Rail Bridge/Carriageway
Portsmouth Hill Road	The George Flyover Carriageway

## 1.7 Plan Maintenance

The Contracts Manager (Winter Maintenance Service Manager (WMSM)) in charge of the winter operations is responsible for maintaining this Operational Plan. The plan is updated on a yearly basis taking into consideration the events of the previous season.

## Section 2 - Operations

### 2.1 Introduction (Operations)

The Service Company is responsible for making decisions concerning salting and snow clearance on the network during the winter maintenance period (from 1st October to 30th April). Detailed operational procedures have been developed for the delivery of winter services in the PCC area, including arrangements for liaison and co-operation with adjacent providers and reporting to the client.

The WMSM (Contract Manager for Operations) will control and is responsible for the operation of the winter maintenance service. During any periods of absence / annual leave etc. another Contract Manager will take his function and be responsible for the operation of this Plan. Details are available in **Appendix K2**.

In order to achieve a co-ordinated service across all boundaries liaison on salting routes has been undertaken with neighbouring maintenance authorities. The routes are defined in **Appendix D3**.

All designated site staff involved in Winter Service duties will receive instructions and training to ensure effective operation. Training would include; an appreciation of winter weather forecasting, effective decision-making, and operational procedures as appropriate to their duties.

### 2.2 General Arrangements and Decision Making

#### 2.2.1 Decision Making and Instructions

The WMSM maintains a roster of senior staff that performs the duties of the Winter Maintenance Duty Officer (WMDO) throughout the winter season (**Appendix K**). The duty WMDO will be available 24/7 throughout their period of duty. During a snow or flood event two Duty Officers will be on call, one on the snow/flood desk and one on all other out of hour's issues.

The WMDO maintains computer contact with the Finley Irvine Ice Station Alert System, either from the office or through a laptop. Weather forecasts for a specific local site will be provided by the Met Office, supported by real time local information obtained from sensor sites, as below:

Morning summary and preliminary forecast	by 0800h
24-hour area forecast	by 1330h
Sensor site forecast (text & ice prediction graphs)	by 1330h
2 – 5 day forecast	by 1330h
Evening update forecast	by 1800h

The graphical computer information of existing road surface conditions at the sensor sites together with predictive and forecast information will enable the

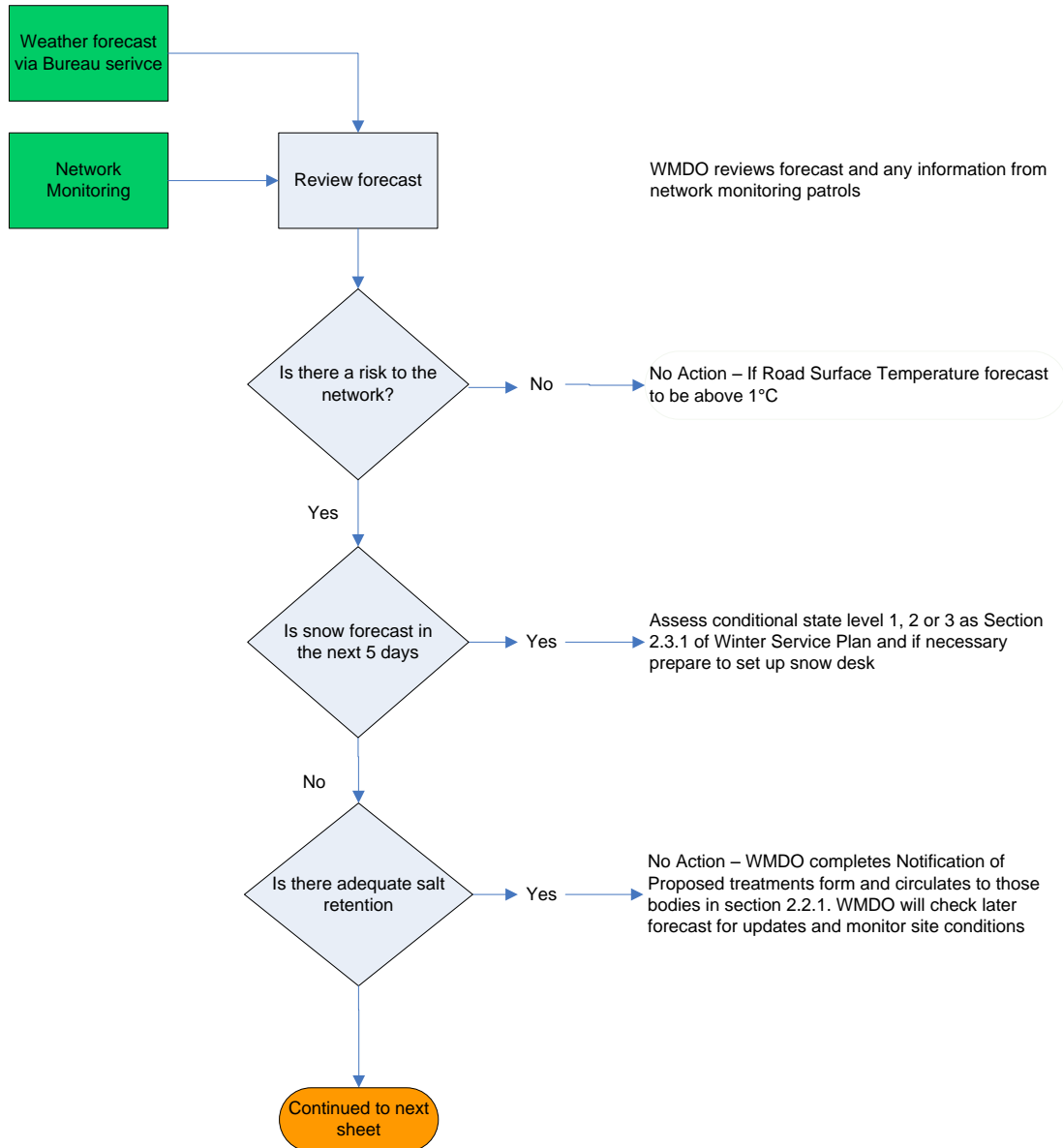
WMDO to form a decision on appropriate action throughout their period of duty. This action may be for stand-by, precautionary salting, repeat salting or snow clearance. Confidence levels for forecasts will influence the timing of the decision.

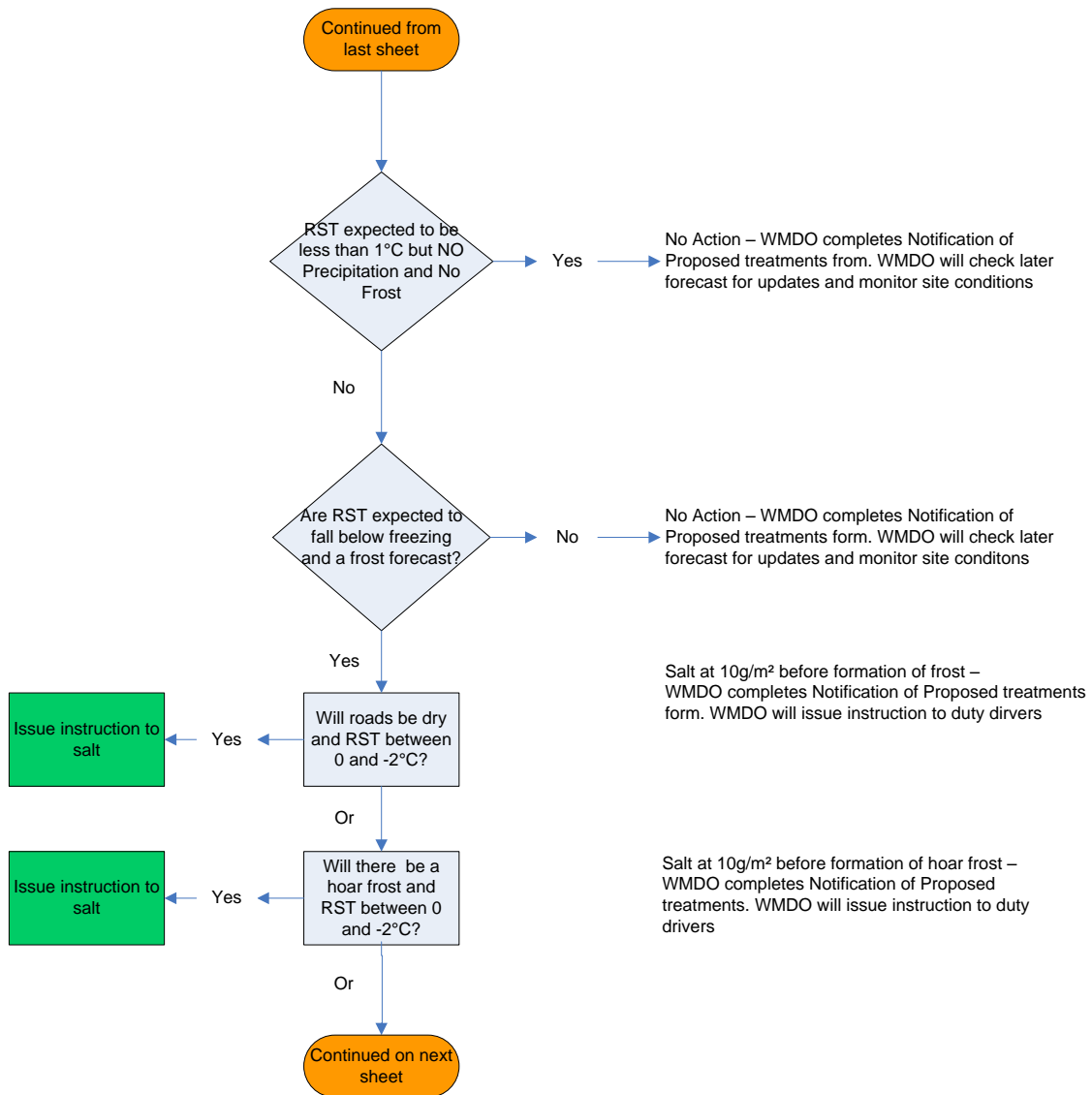
The WMDO will notify the operational staff by 16:00 hrs of any action required. If a decision has not been reached, it shall be delayed until 19.00hrs or other such time as circumstances dictate, when updated forecast information from the Met Office is available. The decision will specify the routes to be treated, timing of treatment or stand-by, spreading rates, ploughing requirements, etc.

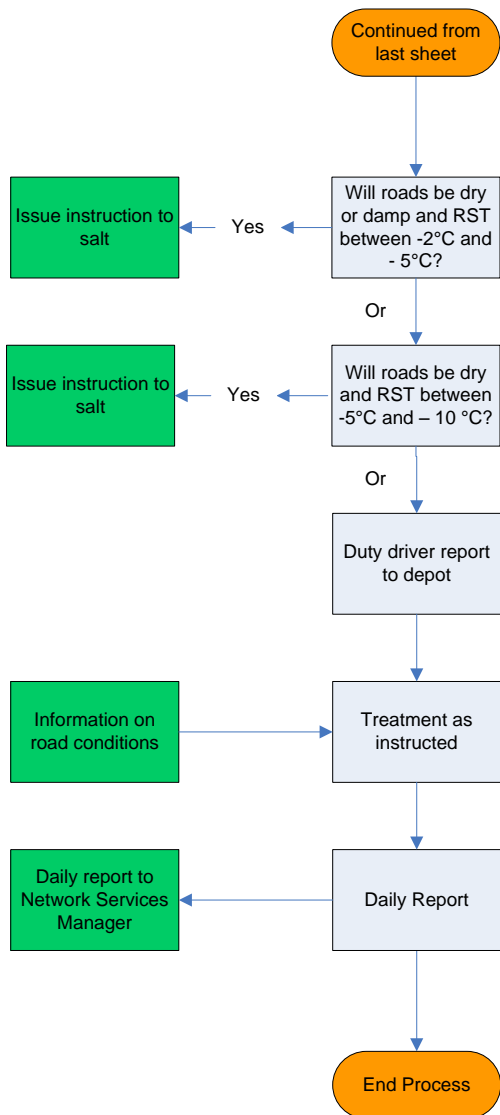
The WMDO will avoid treatment being undertaken in periods of peak traffic flow, if practicable, and during rainfall except where freezing rain is expected. The WMDO will also take into account current advice for low humidity conditions and the guidance given to increase the rate of spread/timing for Porous asphalt.

In the event of revised forecasts or unexpected conditions the WMDO may vary or change any previous decision at any time in the interests of the well-being of the Network. Updates/ changes of decision and any actions shall be notified by the WMDO to WMSM who will in turn notify if required PCC, emergency services, adjacent authorities and any party with legitimate need of such information.

## 2.2.2 Decision process







Salt at 15g/m<sup>2</sup> before formation of hoar frost – WMDO completes Notification of Proposed treatmentsform. WMDO will issue instruction to duty drivers

Salt at 20g/m<sup>2</sup> before formation of hoar frost – WMDO completes Notification of Proposed treatmentsform. WMDO will issue instruction to duty drivers

Drivers report to depot one hour prior to time of commencement of the designated action in order to prepare their vehicles, load salt, and collect their route cards.

Upon completion of their run each driver will inform the WMDO that the run is complete and update him on the road conditions.

WMDO will provide a daily operational report to the Network Services manager, detailing the treatments carried out over the last 24 hours.

### **2.2.3 Decision matrix guide (see Appendix C)**

### **2.2.4 Special considerations**

#### **Hard packed snow**

The treatment of hard packed snow/ice using salt alone can result in an uneven and slippery surface and therefore, in such circumstances, the addition of abrasives (5mm or 6mm sharp sand) will be considered.

#### **Traffic calmed areas**

With the exception of road marking techniques to influence traffic speeds all the features are likely to involve some level of conflict with winter maintenance operation. Traffic calming features will be indicated on the gritting routes and one or more of the following actions may be specified:

- Lift snowploughs and plough snow around the traffic calming features;
- Apply heavy salting locally this is to be carried [by traffic] onto the feature; and/or
- Adjust the spread rates or spinners to minimize overspreading

## **2.3 Escalation**

During falls of snow or exceptional weather conditions responsibility for managing events will normally pass from the WMDO to a dedicated team and a Snow Desk will be established as detailed below.

PCC will be consulted in advance of establishing a Snow Desk to liaise the communications of the snow desk to their wider inter departments.

Emergency Service Plan arrangements will only be enacted if, after discussions with PCC, the Snow Desk response is considered insufficient to cope with the exceptional weather conditions or if an incident is compounded by a series of further incidents.

In the event that the DfT launch the Salt Cell, Colas will adapt the length of the network treated according to the guidance issued by the Salt Cell and according to salt supply. In this situation the WMSM will consult PCC before implementing any treatment decisions and will inform them twice a day, in the morning and in the afternoon of any developments.

### **2.3.1 Establishment of Snow Desk and escalation process**

During periods where snowfall or severe weather is forecast, three conditional states will be recognised, Level 1, Level 2 & Level 3 as below.

#### **Level 1**

During marginal weather conditions, following the 5-day weather forecast, the WMDO will monitor the local weather and road surface conditions. He will liaise with the WMSM and report any local variations to the forecast state.

## **Level 2**

During periods where severe weather is forecast, where snowfall is predicted, a “snow desk” will be setup and co-ordinated up by the WMDO and WMSM. A team from the Service Company will be established to operate the Snow Desk and they will continue to monitor local conditions and report back to the WMSM.

Colas and PCC will discuss the degree of severity and the level of resources that need to be diverted to snow clearance duty. 3 stages are forecasted. It is understood that the trigger of each of this stages will generate a relief event for underachievement of performance standard on the associated activities:

### **Stage 1**

Activities suspended:

- Highways Maintenance,
- Landscaping actives
- Gully Cleansing
- Road Lining
- Street Cleansing (block sweep)

### **Stage 2**

Activities suspended over and above Stage 1

- Capital works (schemes)
- Street Cleansing (Gold zones, Heritage areas & dog Bins)
- Traffic Management

### **Stage 3**

Activities suspended over and above Stage 1 & 2

- All other services with the total workforce dedicated to winter maintenance operations

## **Level 3**

During extended periods of severe weather, the “snow desk” will liaise with PCC, Service Company senior management, and Emergency Services to manage the situation. The Snow Desk will act, as a single point of contact and all instructions will be passed through the Snow Desk.

Once the decision has been made to set up the Snow Desk, a dedicated room at the Service Company’s office will be used. This room will contain all the necessary equipment to effectively communicate with the gritting/snow clearance fleet, PCC, Police, adjacent Local Authorities and other parties. Once the decision to initiate the Snow Desk has been taken, all communications equipment will be tested and if necessary equipment will be drawn from store.

The PCC Snow Response Room will coordinate all clearance works across the city, liaising with Colas and other Internal Services for a joined up approach. This will also include the coordination of PCC volunteers to assist with footway clearances, some of whom are unable to carry out their day to day duties due to the weather conditions. In addition to this, the Snow response room will collate and distribute information internally and externally on items such as bus routes affected, schools closures and road closures.



Once the decision to initiate the snow desk has been taken the WMDO will produce a shift pattern based on the available personnel and forward this to the WMSM/PCC.

The WMSM will arrange for a change in shifts, where it is predicted that the snow event will span more than 12 hours, allowing for a half hour handover period. Where necessary personnel required to take part in shift arrangements, will be housed in local hotels for the duration of the emergency.

The shifts will be organised to include 2 decision makers, 1 technical assistant, responsible for keeping the Winter Service Log, and 1 "information officer". One of the decision makers will take a lead role and in the event of implementation of the Contingency Plan, the role of "Silver".

During shift changes, each member of the team, will handover to their direct replacement. The team leader from the previous shift will remain for a period not less than half an hour after the official handover.

In addition to the staff at the snow desk location, the WMSM will, if considered necessary arrange to place staff at the PCC Offices for the purposes of information collection and liaison.

### **2.3.2 Activation of PCC Emergency Plan**

PCC Emergency Plan will be activated at PCC request when it becomes apparent that a major or critical incident has occurred or is likely to take place. The actions outlined in the plan shall immediately put in place.

## Section 3 – Treatments

### 3.1 Carriageway Treatment

3.1.1 All carriageways forming part of the public highway network have been allocated to one of the three groupings according to the following criteria;

#### Priority One

- main traffic routes ("A" class roads and M275 motorway)
- main access routes to important industrial and large educational establishments (500+ pupils)
- main access routes to major accident and emergency hospitals, and to important emergency service locations
- roads used as major bus routes (50 per day urban, 25 per day rural)
- roads passing through major shopping centres
- other routes busy during peak traffic periods

To be treated, as routine pre-salting, in advance of any forecast frost, ice, or snow.

After 3 days of treatments, if no rain/snow has fallen no further treatment should be undertaken unless conditions deem it necessary (WMSM decision).

#### Priority Two

- roads near to other schools
- roads used as other bus routes
- roads to other hospitals
- roads to minor fire and ambulance establishments
- roads passing through other shopping centres
- roads with gradients that make driving hazardous
- hollow spots.
- footways over prominent Bridges

To be treated only when there is prolonged and persistent frost, ice or snow which is expected to continue, or following snow, but only once Priority 1 routes have been cleared.

#### Priority Three

- other adopted public highways not covered by the above

Priority 3 roads will not be treated. However, in the case of heavy snowfall, once priority 1 and 2 roads have been cleared, we will endeavour to manually or mechanically clear lower-priority roads. In exceptional weather, salt may well be rationed by the government, as it was in January 2010 and they may also reduce the numbers of roads to be salted.

“treated” = either manually or mechanically depending on resources

### 3.1.2 Spot Salting

Spot Salting is a non routine activity carried out after the completion of Priority 1 salting. Spot Salting is undertaken on a priority basis at locations where there have been reported problems (from the Emergency services or others), or there is knowledge of specific problems of ice formation on the network. Spot Salting will not be undertaken when it is unlikely to be completed before the ice begins to melt, as road temperatures rise. Spot Salting can be undertaken either by mechanical spreader or by hand.

The process for ordering spot salting is included in **Appendix C**.

### 3.1.3 Extent of Carriageway to be Salted

- The full width of the running carriageway shall be treated at the specified rate of spread indicated on the agreed action treatment.
- Each carriageway of a dual-carriageway shall be treated individually.
- All slip roads at grade-separated junctions shall be treated individually.
- The full length of the carriageway at roundabouts and gyratory systems shall be treated.
- Isolated obstructions in the centre of a single carriageway road which exceed 5m in length shall be treated on both sides.
- Treatments will only extend to the City boundary except where agreed in the Section 8 cross boundary agreement with HCC

## 3.2 Footway Treatment

**3.2.1** All footways and cycle ways shall be allocated to one of the three groupings according to the following criteria;

### Priority One

All footways & cycle ways designated as Gold zones, Bridges & Hollow spots, and the Guildhall Square (**Appendix D**), Transport Hubs (**Appendix E2**), PCC managed residential homes (**Appendix E3**), as identified, to be treated only when there is prolonged and persistent frost, ice or snow is expected to continue, or following snow.

The list of footways/cycle ways will be reviewed/updated on an annual basis.

### Priority Two

All footways & cycle ways designated as shopping areas, Schools access (**Appendix E**) & Hill Slopes designated as to be treated following significant snowfall but only once Priority 1 footways and cycle ways have been cleared.

### Priority Three

Other footways & cycle ways to be cleared either manually or mechanically following significant snowfall but only once Priority 1 and Priority 2 footways and cycle ways have been cleared. This will include a list of all school crossing patrol sites within the city (**Appendix E1**). Please refer to note 3.1.4

### **3.2.2 Extent of Footway/Cycleway to be salted**

The full width of the footway or running width of cycleway meeting the above criteria shall be treated.

### **3.2.3 Resources for Footway treatment**

It is not possible to predict the level of resources required, at any one time, to ensure that the footways described above are clear of snow and ice. It is also very difficult to predict the level of resources effectively available at the time. However the escalation process described in paragraph 2.3.1 and recent historical event indicate a total number of operatives in excess of 200.

## **3.3 De-icing Treatment**

### **3.3.1 General considerations**

De-icing will be achieved by the application of 6mm dry rock salt at the rates defined in the Treatment Matrix Guide in Section 2.2.2 and Annexe C.

When necessary sharp sand will be added and pre mixed with the 6mm rock salt before being loaded in the gritters.

### **3.3.2 Thin Surfacing**

Many of the modern surfacing materials (TWC) have a 'negative texture' with a considerable number of voids in the finished surface. During the application of salt, a brine solution is often trapped in the voids and is drawn onto the surface by the action of tyres. On medium and lightly trafficked roads, however, the brine solution might be retained in the negative texture.

Experience indicates that TWC does not benefit from an increase in spread rate but that the effect of residual salt on the carriageway is reduced, particularly in areas of low traffic. Residual salt should not therefore be relied upon to provide protection.

The spread rate for TWC should remain as for HRA but less reliance should be placed upon residual protection provided by the previous treatment and the aim should also be to apply treatment as close, as is practicable, to the forecast time of freezing.

### **3.3.3 Low Humidity**

The current practice for winter maintenance is based on the application of dry Sodium Chloride (NaCl) in the form of naturally occurring rock salt. In low humidity conditions the level of moisture is critical in the salt being effective. This is because dry rock salt has no direct melting action; melting occurs only after the salt forms a solution by absorbing moisture from the atmosphere or the road surface.

Below a relative humidity level of about 80%, the absorption of moisture by rock salt decreases rapidly and, at low levels of humidity, salt particles remain inert and ineffective. Dampening the salt with a wetting agent prior to spreading can accelerate the process of dissolving salt particles.

Low humidity and low temperature conditions are most likely to occur in December and January, although these conditions can occur throughout the normal winter maintenance season. The WMDO must be aware that the conditions occur and that they appear to be doing so more frequently.

Monitoring the condition of the network should be carried out to confirm that the treatment has been effective. If it has not been fully successful, contingency treatments should be considered to restore the network to a satisfactory condition. It should be noted that weather sensor systems require the presence of moisture to determine the concentration of residual salt on the road sensor.

### **3.4 Salt Bins**

Some parts of the network not included in precautionary treatments could be especially vulnerable to icing. This is especially the case in the wards of Paulsgrove, Cosham, Drayton and Farlington where most of the roads present an important longitudinal gradient. Salt bins are being maintained at key locations to allow road users to spread ground rock salt in the local area on an as needs basis. It is to be noted that these bins should not be used by residents to salt private premises.

The total number of bins on the public highway 2013-2014 season is 80. Their location is shown in the **Appendix D**. Requests for additional salt bins on the highway will be reviewed by PCC on a case by case basis.

Salt bins are cleaned and filled as a routine at the start of the season and before 1st November each year and will be refilled following extreme weather conditions. A dedicated cleansing operative will carry out a fortnightly inspection and the check sheet will be sent to PCC on a fortnightly basis. Please note that salt will be allocated in priority to CW treatment then FW treatment as per described in section 3.1 and 3.2.

### **3.5 Snow Clearance**

#### **3.5.1 Ploughing & Clearance Techniques and Operational Considerations**

In moderate and heavy snowfall conditions it will be agreed with PCC to cease all normal highways work and re-direct all available resources to snow clearance.

Snow clearing routes are based upon a 40gm/m<sup>2</sup> application rate for the clearance of snow. This will normally be applied by way of two separate 20gm/m<sup>2</sup> runs. Precautionary treatment in advance of any snowfall will be at 20gm/m<sup>2</sup>.

Snowfall less than 50mm deep will normally be cleared by the application salt at a rate of 40gm/m<sup>2</sup>. This may take several successive applications.

Snowfall greater than 50mm will normally require ploughing, supplemented by the application salt at a rate of 40gm/m<sup>2</sup>. The use of ploughs will be restricted to roads wide enough to allow their passage without risk due to the high levels of “on-street” parking and narrowness of side roads, combined with the need for traffic to be as free flowing as possible. All winter maintenance plant will, however, be equipped to carry ploughs.

While moderate or heavy snow is still falling only priority one roads will be ploughed and treated in order to concentrate resources and ensure the most important roads are kept open and maintained in a safe condition.

When snow has stopped falling or the priority one roads are considered safe, priority two roads will be ploughed and treated followed by priority three roads as resources and conditions permit.

The frequency of ploughing and the continuation of snow clearance operations will depend upon conditions and resources will be deployed according to the escalation process described in section 2.3.1.

The removal of snow from dual carriageways requires a different technique from two-way carriageways. In heavy snowfall the priority on a dual carriageway will be to maintain a single open lane. In most cases this will be the most heavily used inside lane and the first operation will be to plough from lane 1 to the verge. The clearance of other lanes will occur as conditions improve. The outside lane will normally be ploughed to the central reservation although it is essential to regulate the speed to avoid throwing snow onto the opposite carriageway. If the central reservation is not wide enough to accommodate the snow or the dual carriageway has three lanes then echelon ploughing (2 or more vehicles, moving in the same direction, one behind the other, in different lanes) will be used to move the snow to the nearside.

Where snow compaction has occurred and ice has formed it may be necessary to use salt/grit mixtures to break up the compacted snow and provide additional adhesion.

In extreme conditions after heavy snowfall it may be necessary to lift snow from streets. Snow will only be removed this way in exceptional circumstances, for example where existing piled snow is preventing further snow clearance from the road.

Snow dumps will be created as necessary at the following sites:-

Road	Location
Milton Common- Eastern Road	Opposite Ambulance Station
Western Road	King George V Playing Fields
Long Curtain Road	Long Curtain Car Park

Northern Parade	Alexandra Park
Portsdown Hill Road	Portsdown Hill
London Road	Hilsea Lido
Market Way	Former Tricorn Centre
Bransbury Road	Bransbury Park
Southsea Esplanade	Southsea Common
Milton Road	Milton Park
Eastern Road	Car Park A27
Eastern Road	Farlington Playing Fields

### 3.5.2 Aftercare and follow up Treatments

During the thaw the first priority will be to ensure, as far as possible, that road channels and footways are clear of snow in the vicinity of gullies etc. to allow melted snow to drain away. Only after gullies are clear should an attempt be made to clear any stockpiled snow.

As soon as practicable a special inspection of the network will be undertaken to identify any damage caused by the weather or the snow clearance operations.

### 3.5.3 Abandoned and Parked Vehicles

Where an abandoned or parked vehicle is hampering snow clearing operations the removal from the road, or removal to another part of the road, may be required. Wherever possible the owner will be contacted and requested to remove the vehicle directly but in certain circumstances this may not be possible.

Only police/traffic officers have the authority to move a vehicle in these circumstances and therefore contact will be made through the Snow Desk and an instruction sought from a police/traffic officer for the vehicle to be moved. The specific details of each vehicle, its location and the reason why it needs to be moved will be provided to the police/traffic officer and a log of all communications kept. The vehicle/s will only be moved once an instruction from a police/traffic officer has been received.

## Section 4 – Weather Forecasting and Ice Prediction

### 4.1 General Arrangements

During the winter period Colas will use the “Open Road” forecasting service provided by the Meteorological Office (London Weather Centre). The forecast provided each day gives the following information;

- Area 24-Hour Forecast
- Site Specific Forecast
- Morning Summary
- Evening Update forecast
- Snow Prediction during any High Risk period
- 2– 5 day forecast
- 24 hr contact number for Met Office Weather Forecasters

The main features of the forecasts are:

- Readiness colour 

<b>Green</b>	no snow or ice expected
<b>Amber</b>	risk of snow and/or ice
<b>Red</b>	snow, ice or drifting snow is expected
- Hazards - This section gives information on the hazards giving rise to the Red or Amber readiness colours as well as other potential hazards which could be present with a “Green” forecast (e.g. high winds, heavy rain, fog)
- Temperatures - Minimum road surface and air temperature are provided, these are generally given together with a confidence statement of High Medium or Low, by the forecaster.
- 24 Hour Summary - This gives a general summary of the weather forecast from 12.00 midday to 12.00 midday the following day.
  - 5 day forecast - This is an outlook for the 4 days following the day of issue of the forecast information. It gives an indication of the likely minimum road surface temperatures, together with a yes/ no statement for ice, snow, hoar frost and fog.
  - In addition to the above, at approximately 1900 hours each day the London Weather Centre issues an evening forecast. This can be viewed by the WMDO and WMSM at home on a portable (Lap-top) computer. The WMDO can contact the duty forecaster at the London Weather Centre to discuss any complications that may arise in the forecast. This consultancy service is provided 24 hours a day.

### 4.2 Ice Prediction System

Colas have subscribed to the Finley Irvine Ice Station Alert System. The variables measured are: air temperature, road surface temperature, relative humidity, precipitation, wind speed and direction, surface condition (wet/dry) and road temperature at 300 mm depth as well as salt residue. These are



accessed by the London Weather Centre and fed into their forecasting model, enabling them to prepare a forecast specifically for the area.

The 2 Ice Prediction sensor stations are located as shown below. The selected Forecast site will be one of these two locations and will be determined in liaison with the chosen forecast provider. The sites are:

1. *Eastern Road, at the entrance to Great Salterns Quay by lamp column 205*
2. *Portsdown Hill Road, adjacent to the parking area just west of Hilltop Crescent by GPO pole DP 847*

Finley Irvine software is installed on 2 Desktop PC's and 2 Laptop PCs. One Laptop will remain with the WMDO. The Desktop PCs are located in the Service Company offices and for accessing by WMDO or other delegated officers during the working day. Further access to the forecasting information is available from any PC connected to the Internet via Finley Irvine Ice Station Alert System.

### **4.3 Records**

The WMDO will keep detailed daily records of information using forms from the "Winter Maintenance Operational plan:

- weather forecast,
- actual weather conditions,
- reports received,
- decisions made,
- instructions given,
- confirmations,
- actions taken, and
- liaison and communications log.

These records will comprise paper as well as electronic records. They will be maintained, together with the adjacent authorities' decisions, in the Winter Weather Records File. Records will be archived and retained.

Periodically analysis of the records will be carried out to identify non-conformances or trends and to ensure compliance with the Winter Maintenance Code.

## Section 5 –Winter Weather Emergency Preparation and Planning

### 5.1 Health and Safety

Risk Assessments and Safe Working Methods assessments and safe working methods for office staff and operational staff engaged on winter maintenance are prepared by the WMSM and the WMDO and updated in the second fortnight of September.

### 5.2 Mutual Aid

The management of the interface between the PCC network and the Trunk Road and other networks is essential to the consistent provision of a winter service. For example, there are local roads at the PCC boundary which are essential to traffic flow within the City.

Mutual aid can be many different things, from the sharing of resources such as salt, the sharing of facilities or assistance to deal with specific problems that may occur near maintenance boundaries.

Whilst these arrangements are often ad hoc, inconsistent and rely upon the goodwill of the parties' involved, Colas is committed to the principle of mutual aid.

### 5.3 Review

Colas undertake a mid season and end of season review of the Winter Maintenance Operations. This is initially undertaken by the WMSM and PCC and will cover communication issues, management and delivery of the Winter Service.

Issues may be identified at the initial meeting that may require later input from a third party e.g. the Police. The review will include:

- response and treatment times,
- decision making,
- command and control,
- escalation and snow desk (if applicable),
- liaison and communications,
- weather forecasting and ice prediction,
- actual weather conditions,
- operational issues,
- records,
- health and safety,
- human resources,
- vehicles and plant,
- de-icing materials,
- depots and facilities,

- Identified problem areas on the network.
- Innovation and new techniques

Please find below the main action taken after the review of the 2012-2013 winter season:

- 1) Better quality equipment to be purchased by PCC for snow response as some of the equipment used in January was of a poor standard and broke.
- 2) Guildhall Square must be a priority in a snow event, it took too long to get cleared last season. New location to be agreed for salt delivery for the area.
- 3) Dry run exercise failed last season due to equipment issues. Colas have ensured that this has been addressed for this season.
- 4) Improved communication required with the Police to ensure that PCC/Colas are informed when the Police choose to close roads. Also improved communication required with Fareham Borough Council with regards to cross boundary roads.
- 5) Having two Duty Officers worked well and has been written into the plan.
- 6) More powerful horns are being installed on the gritters and deflectors for the ploughs to make road users/pedestrians aware of their presence.
- 7) Revise the footway clearance programme to what is essential/critical
- 8) Publish the gritting routes on the Streets Ahead Website

#### 5.4 Winter Service Timetable

The generic preparation table is presented in **Appendix G**, the table below sets out key dates in the delivery of the 2013-2014 winter service.

Date	Who	Action
30 April 2013		Winter season concludes
14 August 2013	Colas	Post season review meeting
August 2013	Colas	Preparation of WMOP update
23 August 2013	Colas	Submit WMOP to PCC for review
5 September 2013	PCC	T&T Cabinet Briefing Meeting
12 September 2013	Colas	Amend WMOP as required by PCC
17 September 2013	Colas	Final submission of WMOP to PCC
26 September 2013	PCC	T&T Cabinet Decision Meeting
27 September 2013	Colas	Issue WMOP
1 October 2013		Winter season commences
29 January 2014	Colas	Mid-season review

30 April 2014		Winter season concludes
28 May 2014	Colas/PCC	Post season review meeting
18 June 2013	Colas	Post season report to PCC

## Section 6 - Resources

### 6.1 Introduction (Resources)

This section of the Winter Maintenance Operational Plan (WMOP) details the resources available for delivery of winter services including reserve and contingency arrangements.

### 6.2 Human Resources

#### Definitions

The following table defines the key personal responsible for delivery of the services defined within this document.

Function	Title	Name
Responsibility for Plan	WMSM	Ray Muscat
Decision maker	WMDO and WMSM if required	See <b>Appendix K1/2</b>
First Point of Contact	WMDO	See <b>Appendix K1</b>
Out of hours contact	WMDO	See <b>Appendix K1</b>

### 6.3 Training

The Service Company is committed to ongoing staff training and education. It is essential that the decision maker is competent and experienced in all likely weather conditions. Therefore all staff involved in winter service duties will receive instructions and training, as appropriate to their duties, to ensure effective operation. Training will include; an appreciation of winter weather forecasting, effective decision-making, and particularly the management of snow events and implementation of this WMOP.

It is also essential that there are adequate numbers of HGV drivers within the workforce, trained to drive the necessary machinery, for a prolonged snow event. Operational staff will have the appropriate driving license be trained to appropriate levels, such as City and Guilds Scheme 6157, winter service operatives' qualification. Records of all training are kept on file at the Service Company's office.

### 6.4 Winter Maintenance Exercise

**6.4.1** A trial exercise shall be carried out in advance of each winter period to check all the plant, operatives and ancillary equipment are available and in working order.

**6.4.2** This exercise will normally take place in late September. All pre-salting vehicles (including salt spreaders), snowploughs, as shown in **Appendix J** and relevant labour will be involved and tested.

#### 6.4.3 The trial run shall consist of:

- Salting vehicles being loaded with spreading inserts;
- A minimum amount of salt and loaded to test the correct operation of the unit;
- Ploughs fitted and their operation tested;
- Priority 1 routes run in full, checking route maps and schedules are available and correct.
- Priority 2 routes, subject to agreement with the Winter Service Activity Manager.

The results of this exercise shall be recorded on Checklist A in **Appendix J** and copied to PCC.

#### 6.4.4 Briefing and induction

### 6.5 Manning Levels

The qualified drivers for winter service operations on the PCC network is detailed in **Appendix M**. This will provide a minimum resource level of 2 times the number of operational vehicles needed.

An additional 2 fully trained HGV drivers are available on request to provide winter emergency response.

In normal conditions 3 drivers will be on duty at any one time.

In a snow situation there will be sufficient HGV drivers to operate gritters for 24-hour cover for a prolonged period of severe weather.

### 6.6 De-icing Material

#### 6.6.1 Type and Specification

To minimise damage to third party property and vehicles and to reduce problems in periods of low humidity it is proposed to utilise 6mm nominal size rock salt as below. Abrasive grit may be used in periods of extreme weather.

- 6mm salt, to BS3247:1991.
- Abrasives: 5 or 6mm sharp sand

Following “The Quarmby Review”, issued by the Secretary of State for Transport, to consider the resilience of English transport systems, new guidance was issued in Oct 2010 to provide a comprehensive range of spread rates for different weather conditions and spreading capabilities for the UK road network. Whilst Colas has taken these into consideration, we will not be in a position to fully implement them until the existing fleet of vehicles is renewed in 2014.

#### 6.6.2 Storage Locations

For the 2013/2014 winter season Colas salt is stored in the Walton Road depot.

The UKRLG has updated its recommendations regarding pre-season salt resilience stock level in its final report "The resilience of England's Transport Systems in Winter" issued in October 2010. The resilience levels suggested are changing from 6 days/24 runs to 12 days/ 48 runs. This translates into a pre-season stock level for Portsmouth of 864t of salt. The storage capacity at Portsmouth depot is 970t (850t in a dedicated salt barn in Walton road depot and 120t in a non-covered storage bay), 10% more than the recommended resilience level, which is fully stocked before the start of the winter season. For the record the total tonnage of salt used in 2012/2013 winter was in the region of 1230t.

Colas still keeps a framework contract agreement with both main UK salt provider Salt Union and Cleveland Potash. Colas internal growth has increased the level of salt bought by the company, Colas Portsmouth can therefore draw on a privately owned 150,000t of salt.

In 2010, it was agreed that a New Emergency Network is to be considered in case of salt supply shortage. In extreme or prolonged weather conditions, the Government may establish the "Salt Cell", as they have done for the last three years; this will control the distribution of salt supplies nationally, and may require the reduction of the treated network. It is important to note that in these circumstances, the control of supply of salt is beyond our control.

It is part of the WMSM's task to be responsible for the timely ordering of replacement salt.

## Section 7 – Liaison and communication

### 7.1 Publicity

It is important that the all interested parties including the general public are aware of and understand Colas/PCC approach to winter maintenance of the public highway.

Queries and complaints from the public will be dealt with directly by Colas via the helpdesk as appropriate and will be recorded through the PEM system.

The plan will be circulated to the list of stakeholders listed in preamble of this plan.

Statements relating to policy, and the general level of service provided will only be made through PCC.

Subject to the approval of PCC, Colas will provide information on agreed relevant details contained in this WMOP for Public Highways to the general public using agreed means of communication. This includes a proposal for the content of PCC Winter maintenance of public highway web site section.

In order to achieve a consistent approach to winter service operations along routes that either enters or leave the PCC boundaries, liaison with HCC and the Highways Agency will take place. All communications will take place by email and telephone as necessary.

Colas will notify the bodies in section 2.2.1 of all proposed treatments once known, but not normally later than 16:00 each day. It will also notify them of other actions including changes to planned treatments, reactive treatments and snow clearance. Communications in severe weather conditions will include regular updates as determined by the prevailing circumstances

All notifications will be by email and phone unless agreement is reached with recipients for transmission by other electronic means.

Colas will consult with PCC, as soon as practicable, on any strategic decisions required or any events that may have a significant effect on the performance of the network, such as strategic road closures.

The form at **Appendix L** will be used for all notifications.

### 7.2 Reports

#### 7.2.1 Daily reports

Before 9.30am each day the WMDO will provide a daily operational report to the WMSM, detailing the treatments carried out over the last 24 hours and any relevant issues that have arisen during that period. The report shall be submitted in the form defined at **Appendix L**. The reports will be archived on Colas data base and made available to PCC on request.

#### 7.2.2 Regular Updates

During severe weather conditions Colas will provide PCC with regular updates describing the current condition of the network and detailing the ongoing and



proposed winter service operations. The report shall be submitted, by email, by the WMSM in the form defined in **Appendix L**.

### **7.3 Media Liaison**

In order to provide information on the winter maintenance decisions and other routine matters the Service Company will inform PCC communication officer daily in case of severe weather condition and on an ad hoc basis otherwise as required by PCC.

Any direct communication between Colas and the media will first be vetted by PCC.

### **7.4 Internal Communication Arrangements**

During the Winter Service period all normal internal operational communication and instructions will be via landline telephones, mobile telephones and/or emails. Instructions, actions and reports will be recorded.

All winter service depots and gritting vehicles will be equipped with mobile telephone communication to ensure contact can be made by the supervisors and WMDO's at all times.

# **Appendix A**

## **Other Plans Containing Colas Highway Management Roles and Responsibilities**

- Portsmouth City Council – Emergency Response Plan
- Colas –Emergency Incident Plan

# Appendix B

## Definitions and abbreviations

PCC	Portsmouth City Council
HCC	Hampshire County Council
WMSP	Winter Maintenance Service Plan
WMSM	Winter Maintenance Service Manager
WMDO	Winter Maintenance Duty Officer
RST	Road Surface Temperature
TWC	Tarmac Wearing Course

## Appendix C

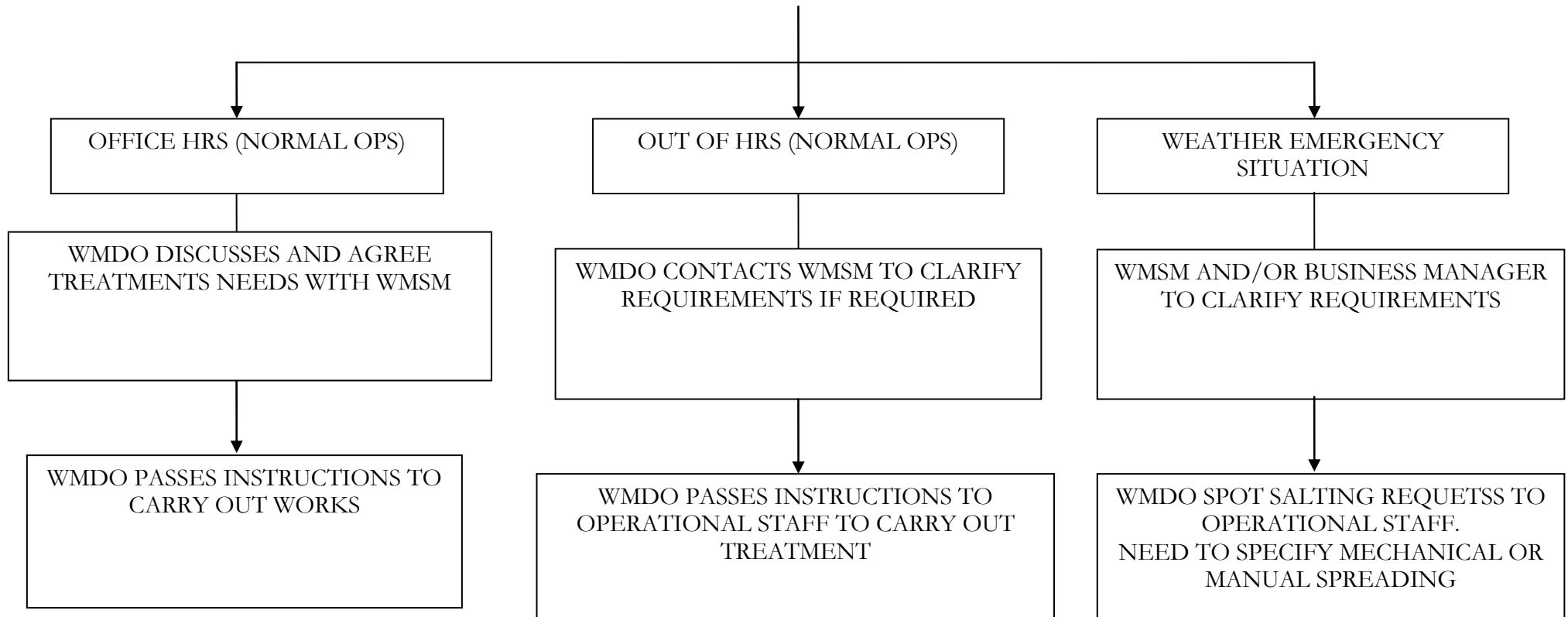
### Guidelines for Decision Making

Forecast Conditions	Green	Amber			Red						
	Above Freezing	Borderline Freezing Conditions			Definite Freezing Conditions					Snow	
		No rain, freezing fog, or hoar frost, predicted	Rain, early morning freezing fog, or hoar frost predicted	Freezing in some places	No rain, freezing fog, or hoar frost predicted	Rain, freezing fog, or hoar frost predicted in places*  <b>*If predicted for North of City only then Routes 1-4 only</b>	Rain predicted before freezing conditions	Rain predicted during freezing conditions	Early morning freezing fog, or hoar frost predicted	Light falls up to approx. 30mm	Moderate falls over 30mm
Road Conditions											
Road surface wet	1	2	2*	3	3	3	4	3 * and standby for possible repeat run	3 *	5 & 6 and standby for possible repeat run	5 twice & 6 and standby for possible repeat run
Wet patches on road surface											
Road surface wet but may dry											
Road surface dry	1	1	2*	1	1	3	4	3 *	3 *	5 & 6	5 twice & 6 Repeat if required
Routes pre-salted within 24 hours with no subsequent rain											

#### Recommended Action

- 1 No action necessary
- 2 Colas gritters operators to standby in depots (loaded or unloaded as agreed with the Winter Maintenance Duty Officer)
- 2\* Colas gritters operators to standby in depots (loaded or unloaded as agreed with the Winter Maintenance Duty Officer)
- 3 Pre-salting to be completed before commencement of freezing conditions @ 10g/m<sup>2</sup>
- 3\* Pre-salting to be completed before commencement of freezing conditions @ 15g/m<sup>2</sup>
- 4 Pre-salting to be programmed after rain has finished @ 15g/m<sup>2</sup>
- 5 Pre-salting to be carried out before predicted snow @ 20g/m<sup>2</sup>
- 6 Fit snow ploughs as appropriate

**WMDO IDENTIFIES  
NEED FOR SPOT SALTING TREATMENT**



## Timing of Action

Pre-salting needs to be timed for maximum de-icing effect, i.e. completed close to the commencement of the freezing period. However, it must be borne in mind that pre-salting operations during the early hours, after midnight, will have a serious effect on the ability of the work force to undertake a full day's work later in the day.

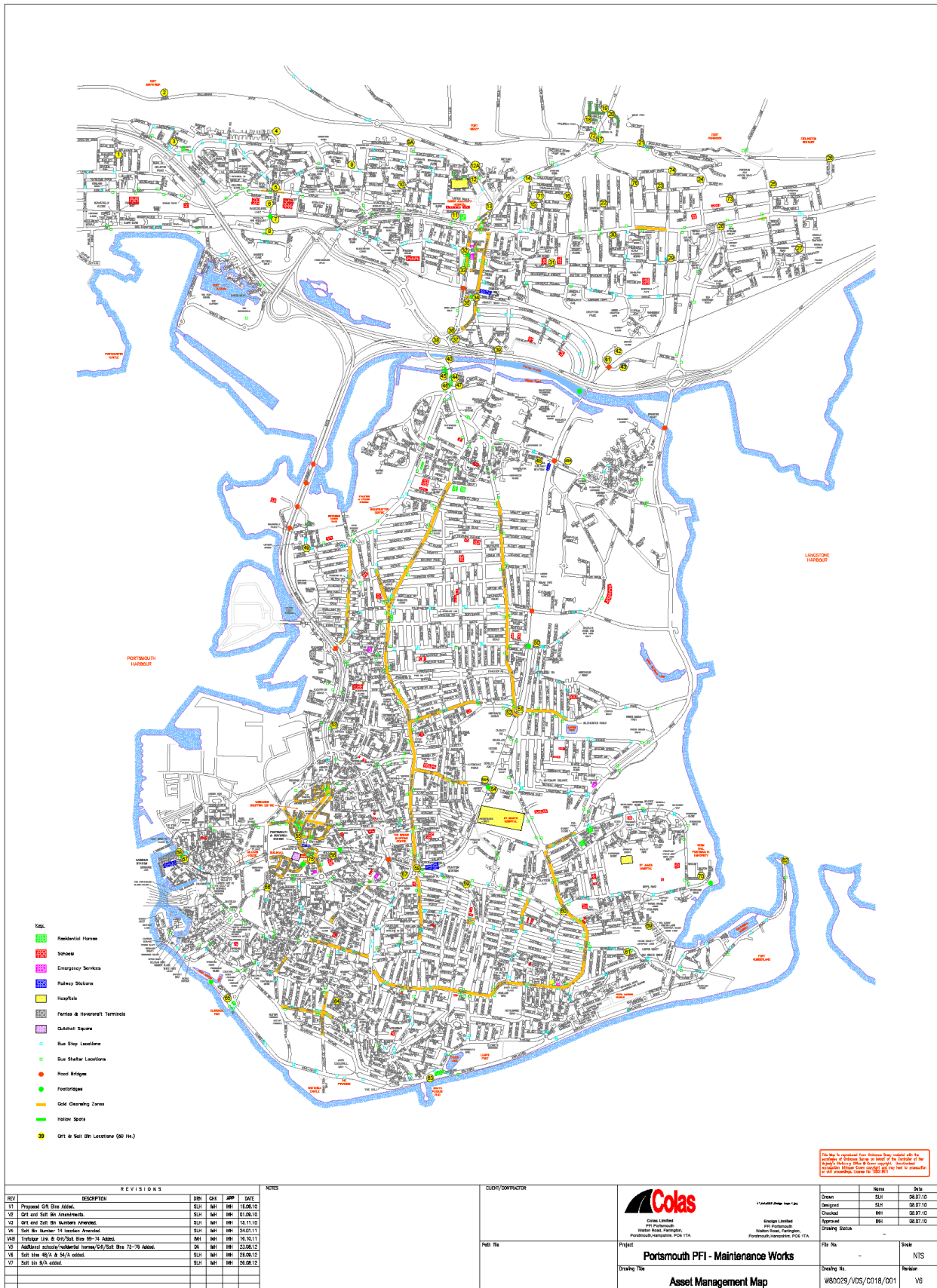
Where possible **and where prevailing weather and traffic conditions permit**, pre-salting should be timed for mid to late evening, starting between 1900 and 2000 hrs. Where there is a risk of any loss of de-icing effect the run should be timed for a later start.

Additionally, unless weather prevailing conditions dictate otherwise runs during the peak traffic periods should generally be avoided (0730 to 0930 and 1600 to 1830).

During periods of continuous shift working the runs can be timed to greatest operational effect as the workforce will not be required for other duties. However, the change of shift period should be avoided if at all possible.

# Appendix D

## Gold Zones, Bridges, Hollow Spots, Transport Hubs, Residential Homes, Hospitals, Emergency Services and Salt Bins locations



- Residential Homes
- Schools
- Emergency Services
- Railway Stations
- Hospitals
- Firms & Industrial Terminals
- Global Square
- Bus Stop Locations
- Bus Shelter Locations
- Road Bridges
- Footbridges
- Gold Clearing Zones
- Hollow Spots
- OVI or Salt Bin Locations (500 M2)

This Map is generated from Ordnance Survey (OS) data. The accuracy of OS data is not guaranteed. The accuracy of OS data is not guaranteed. The accuracy of OS data is not guaranteed.

REV	DESCRIPTION	DRN	CHK	APP	DATE
V1	Proposed OVI Site Allocated	SLH	MM	MM	18.08.10
V2	Get and Salt Bin Assessments	SLH	MM	MM	25.08.10
V3	Get and Salt Bin Numbers Approved	SLH	MM	MM	12.11.10
V4	Salt Bin Number 14 location Approved	SLH	MM	MM	24.01.11
V5	Transfer OVI to OVI/Salt Bin 20-29 Address	MM	MM	MM	15.03.11
V6	Add/Best schools/residential homes/OVI/Salt Bins 73-79 Address	SLH	MM	MM	23.06.12
V7	Salt Site #2(a) & 5(a) added	SLH	MM	MM	28.08.12
V8	Salt Site #3 added	SLH	MM	MM	28.08.12

CLIENT/CONTRACTOR
Portsmouth PFI - Maintenance Works

FILE NO.
Asset Management Map

Colas Limited  
PFI Portsmouth  
Portsmouth International Dock STA

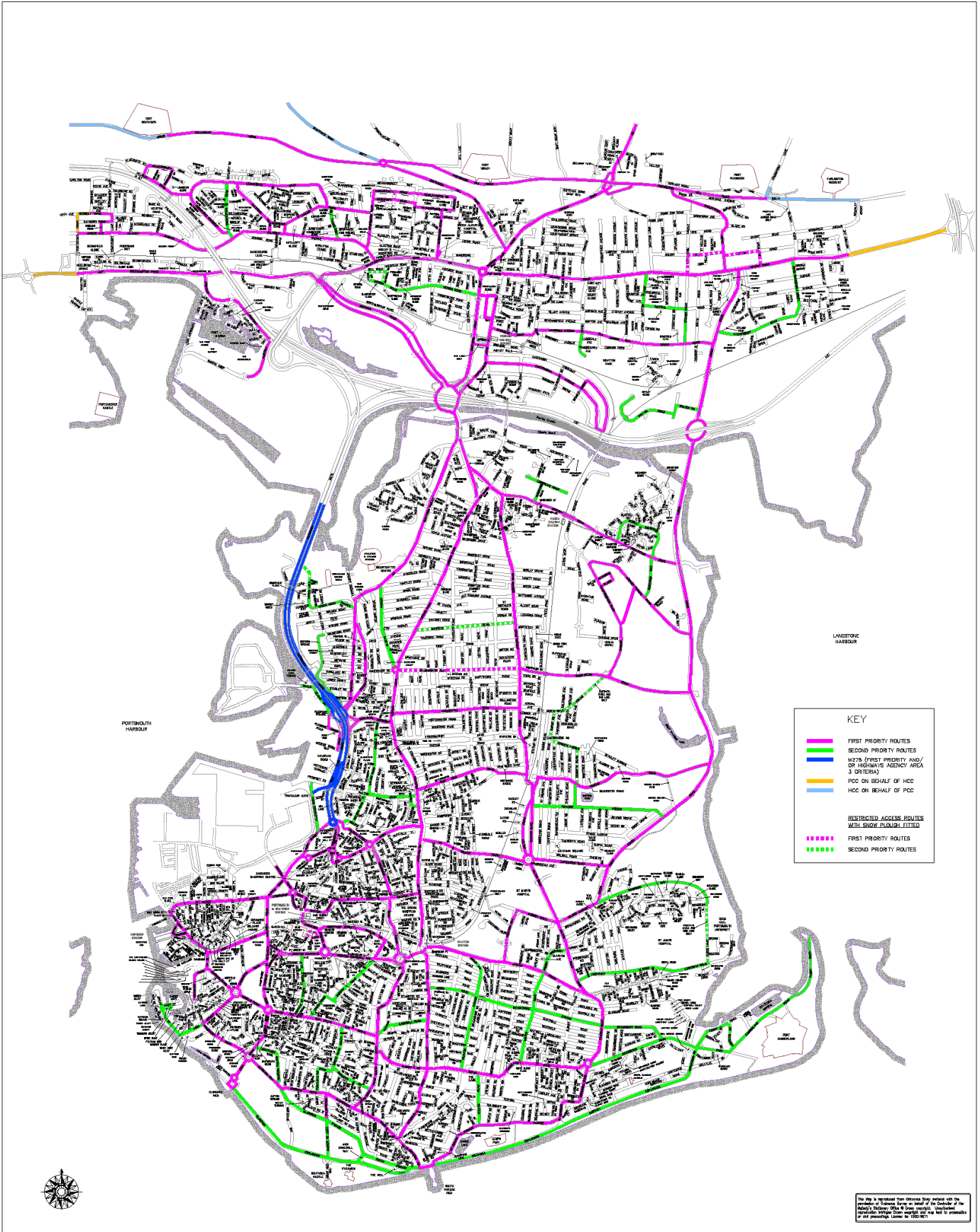
Design Limited  
PFI Portsmouth  
Newton Road, Portsmouth  
Portsmouth International Dock STA

DATE	BY	DATE
Drawn	SLH	08.07.10
Designed	SLH	08.07.10
Checked	MM	08.07.10
Approved	BEI	08.07.10

FILE NO.	DATE
Drawn	NTS
Checked	NTS
Approved	NTS

# Appendix D1

## Carriageway categories 1 and 2



KEY	
<span style="color: magenta;">—</span>	FIRST PRIORITY ROUTES
<span style="color: green;">—</span>	SECOND PRIORITY ROUTES
<span style="color: blue;">—</span>	NZTS (FIRST PRIORITY AND/OR HIGHWAYS AGENCY AREA 3 CRITERIA)
<span style="color: orange;">—</span>	PCC ON BEHALF OF HCC
<span style="color: lightblue;">—</span>	HCC ON BEHALF OF PCC
RESTRICTED ACCESS ROUTES WITH SNOW PLOUGH FITTED	
<span style="color: magenta;">- - -</span>	FIRST PRIORITY ROUTES
<span style="color: green;">- - -</span>	SECOND PRIORITY ROUTES

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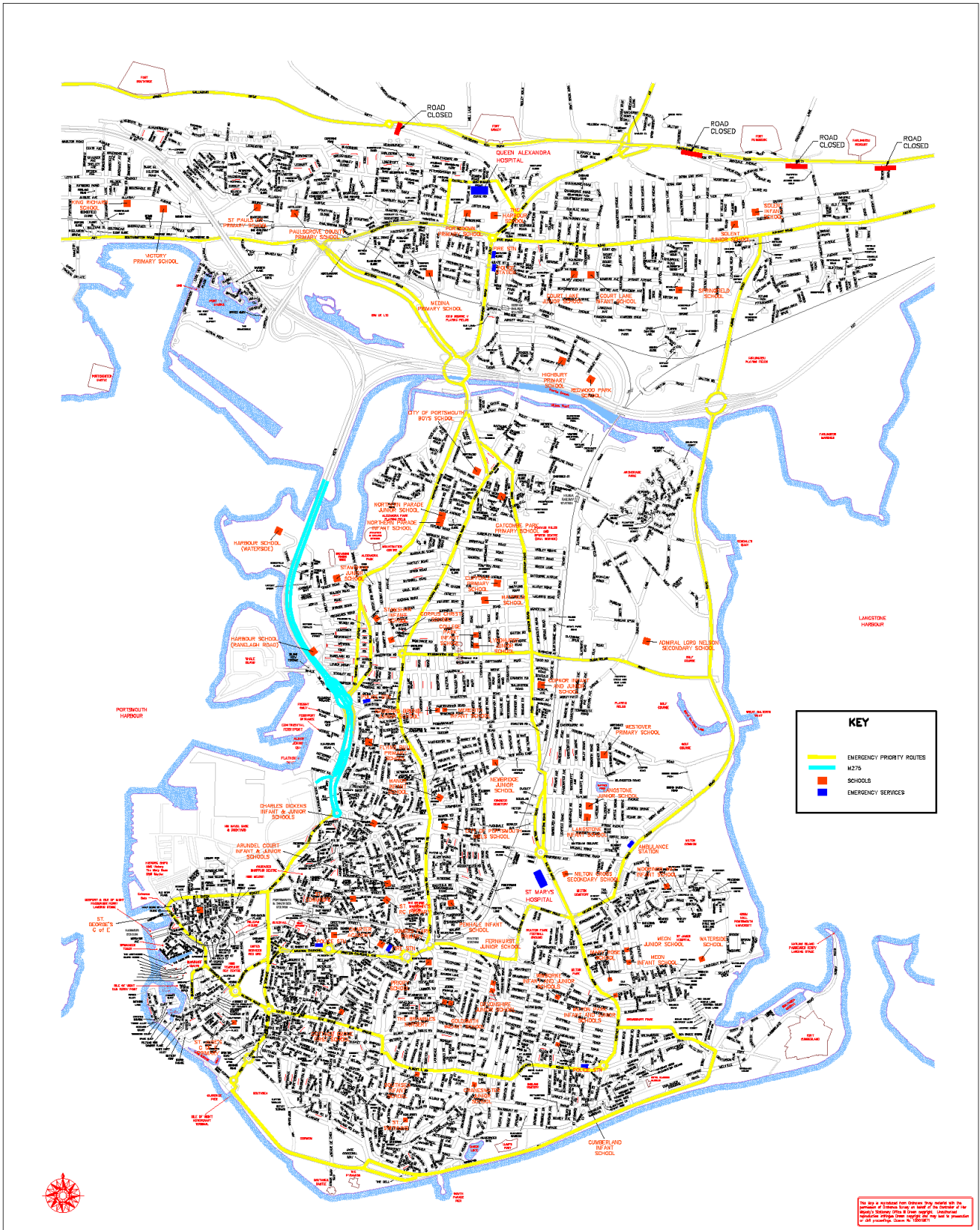
REVISIONS					REVISIONS					CLIENT/CONTRACTOR		Name		Date			
REV	DESCRIPTION	DRN	CHK	APP	DATE	REV	DESCRIPTION	DRN	CHK	APP	DATE	Colas	Colas	Drawn	Checked	Approved	Drawn Status
V1	SALTING ROUTES AND SALT BIN LOCATIONS	DE	JP		01/01/11	WORKING ROAD, ALBORNE PLAZA ADDED, DUNDAS SPUR REMOVED	HH	SLH			12/10/11	Colas Limited 910 Portsmouth Water Road, Portsmouth, Portsmouth/Hampshire, PO6 1TA	Colas Limited PFI Portsmouth Water Road, Portsmouth Portsmouth/Hampshire, PO6 1TA	Urban	GLE		18/10/05
V2	SALTING ROUTES AMENDED	SH	WH		28/09/09	SHAWERS ROAD (THURTY) ADDED	HH	SLH			19/10/11			Checked	GLP		18/10/05
V3	SALTING ROUTES AMENDED	SH	WH		27/02/2011	RESTRICTED ACCESS ROAD WITH SNOW PLOUGH FITTED SHOWN	HH	SLH			17/10/11			Approved			
V4	FITCHERSBET RD. & LOWER FARLANDEN RD. ADDED	SH	WH		27/02/2011	MONTINGDALE RD REORGANISED, ALEC ROSE LAKE & UNCOMB RD (D) ADDED	HH	SLH			18/11/11			Approved			
V5	EMERGENCY ROUTES (DASH)	HH	WH		05/01/10	AMENDED TO SUIT PCC/HCC SECTION 8 AGREEMENT	HH	SLH			22/11/11			Approved			
V6	EMERGENCY ROUTES (DASH)	HH	WH		25/01/10	ORSON UPDATES DUNDAS LAKE S. ADDED, CHATEAU FISH REMOVED	HH	SLH			28/09/11			Approved			
V7	EMERGENCY ROUTES (DASH)	HH	WH		19/01/10	MOORTHON STREET & VICTORIA WAY ADDED	HH	SLH			20/10/11			Approved			
V8	SCHOOLS & RES. HOMES ADDED (TO VERSION V4)	HH	WH		25/01/10									Approved			
V9	HARTER RD. & LISTER RD. (ON ST. HOSPITAL GROUNDS) OMITTED	HH	WH		01/06/10									Approved			
V10	LESLIE STREET & DUNDAS SPUR ADDED TO FIRST PRIORITY ROUTE	SH	WH		18/02/11									Approved			
V11	TRAFALGAR LINK ROAD, NZTS ROUTE ADDED	SH	WH		10/10/11									Approved			

<p>Colas Limited 910 Portsmouth Water Road, Portsmouth, Portsmouth/Hampshire, PO6 1TA</p>	<p>Colas Limited PFI Portsmouth Water Road, Portsmouth Portsmouth/Hampshire, PO6 1TA</p>	Project <b>PORTSMOUTH PFI</b>	File No. -	Salt <b>NTS</b>
Drawing Title <b>1st &amp; 2nd PRIORITY GRITTING ROUTES</b>		Drawing No. -	Revision <b>V11G</b>	



# Appendix D2

## Carriageway Emergency Network



REVISIONS					
REV	DESCRIPTION	DRN	CHK	APP	DATE
V0	SALTING ROUTES AND SALT BIN LOCATIONS	D.E.	J.P.		19/10/05
V1	SALTING ROUTES AND SALT BIN LOCATIONS	D.E.	D.P.		04/01/06
V2	SALTING ROUTES AMENDED	S.H.	M.H.		08/09/05
V3	SALTING ROUTES AMENDED	S.H.	M.H.		27/02/06
V4	REVISION OF M25 & LOWER PAVEMENT ROL ADDED	S.H.	M.H.		27/02/06
V5	EMERGENCY ROUTES (M25)	M.H.			08/03/05
V6	EMERGENCY ROUTES (M25)	M.H.			12/01/05
V7	EMERGENCY ROUTES (M25)	M.H.			12/01/05
V8	WINDSOR SCHOOL, BRIDLEIGH ROAD - ADDED	S.H.			23/07/05

CLIENT/CONTRACTOR	
Client	Colas
Contractor	Colas Limited PFI Portsmouth Water Road, Portsmouth, Southampton, Hampshire, PO6 1TA
Project	PORTSMOUTH PFI
Project No.	136-jpr-03 Portsmouth Technical Operations Work, AUSTON Emergency Salting Route Stage 07.dwg
Project Title	EMERGENCY PRIORITY ROUTES (60%)

KEY	
	EMERGENCY PRIORITY ROUTES
	M25
	SCHOOLS
	EMERGENCY SERVICES

NOTES		
Drawn	Checked	Date
D.E.	D.E.	19/10/05
D.P.	D.P.	18/10/05
Drawing Status: -		
File No.	Drawn	Date
-	-	NTS
Drawing No.	Checked	Revision
-	-	V8

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# Appendix D3

## Carriageway salting routes details

### Summary of Priority 1 Salt Routes

Route No.	Route Area	Key Roads/Locations	Design Responsibility
1	Central	Eastern Road (from Walton Rd), Havant Road E (including A3M RAB), Havant Road W, Eastern Road S, Velder Avenue, Rodney Road, Fratton Way (to Goldsmith Av RAB), Velder Avenue, Eastern Road N.	RM
2	North	Havant Road W (from Eastern Rd), Spur Road, Northern Road, London Road (Turn at Park Av), Portsdown Hill Rd W, James Callaghan Drive (up to Fort Southwick), Southwick Hill Road, Portsdown Hill Road E (turn at Crookhorn Lane) Farlington Avenue, Galt Road, Eveleigh Road, Solent Road, Portdown Avenue, Havant Road E (to Eastern Rd).	RM
3	North	Grove Road, Old Manor Way, Lonsdale Avenue, Knowsley Road, Cosham High Street, Vectis Way, Wootton Street, High Street, Wayte Street, Northern Road, Roebuck Close, Portsmouth Road, Chatsworth Avenue, Highbury Grove, Hawthorn Crescent, Wembley Grove, Portsbridge RAB, Western Road, Southampton Road W, Port Way, East Street Portchester, Southampton Road E, Western Road S.	RM
4	North	Southampton Road E (from Western Rd), Allaway Avenue, Jubilee Avenue, Portsdown Road N, Newbolt Road, Connaught Lane, Raymond Road, Rowland Road, Jubilee Avenue, Allaway Avenue, Hillsley Road, Winterbourne Road, Almondsbury Road, Leominster Road, Ludlow Road, Hempstead Road, Elkstone Road, Washbrook Road, Harleston Road, Mablethorpe Road, Boston Road, Peterborough Road, Lowestoft Road, Sevenoaks Road, Cavell Drive, Southampton Road E, Southampton Road W.	RM
5	Central	Anchorage Road W, Norway Road W, Copnor Road N, Old London Road, London Road N, Copnor Road S, Norway Road E, Copnor Road S, Burrfields Road E, Eastern Road N, Airport Service Road W, Anchorage Road E, Eastern Road S, Burrfields Road W, Dundas Lane N (up to Veolia Entrance), Quartremaine Road N, Alchorne Place, Airport Service Road W, Dundas Lane South (to Quartremaine Rd).	RM
6	Central	Burrfields Road W (from Dundas Lane), Copnor Road N, Old London Road, London Road N, Portsbridge Bus Lanes, London Road S, Kingston Crescent, Rudmore RAB, Wharf Road (to Ferry Gate), Twyford Avenue, Northern Parade N, London Road N, London Road S, Northern Parade S, Stamshaw Road, Kingston Crescent, London Road N (to Old London Rd)	RM
7	Central	Tangiers Road (from Eastern Rd), Baffins Road, Milton Road N, Copnor Road N, Stubbington Avenue, London Road S, Chichester Road, Kingston Road S, Fratton Road S, Fratton Bridge RAB, Fratton Road N, New Road, Baffins Road, St Marys Road (to Fratton Rd)	RM
8	South	Langstone Road W (from Eastern Rd), Milton Road S, Eastney Road S, Highland Road W, Albert Road W, Elm Grove W, Kings Road W, Landport Terrace N, Hampshire Terrace N, Lord Montgomery Way N, St Michaels Road N, King Richard 1 <sup>st</sup> Street E, Winston Churchill Avenue E, Victoria Road North, Goldsmith Avenue E, Milton Road N (to Langstone Rd)	RM

9	South	Mile End Road S, Church Street, Holbrook Road S, Holbrook Road N, Lake Road E, Fratton Road S, Arundel Street E, Holbrook Road N, Lake Road W, Bus Route Area, Unicorn Road, Edinburgh Road W, Alfred Road, Market Way, , Hope Street, Commercial Road N Mile End N.	<b>RM</b>
10	South	Arundel Street W (from Fratton Rd), Station Street W, Commercial Road S, Isambard Brunel Road, Alec Rose Lane, Greetham Street, Raglan Street, Somers Road, Winston Churchill Avenue E, Winston Churchill Avenue W, Lord Montgomery Way, St Michaels Road, King Richard 1 <sup>st</sup> Street, Winston Churchill Avenue E, Isambard Brunel Road N, Stanhope Road, Edinburgh Road E (to Queen Street).	<b>RM</b>
11	South	Cromwell Road (from RAB), St Georges Road, Eastern Parade, St Helens Parade, South Parade, Clarendon Road (to Circle), Victoria Road South, Victoria Road North, Fawcett Road, Lawrence Road, Waverley Road, Clarendon Road, Osborne Road, Duisburg Way (to RAB)	<b>RM</b>
12	South	Pier Road S, Pier Road N, Jubilee Terrace, Bellevue Terrace, Kings Terrace, Museum Road W, High Street, Pembroke Road, St Georges Road, Gunwharf Road, St Georges Road, The Hard, The Hard Interchange, Queen Street, Alfred Road, Market Way N, Market Way S, Alfred Road, Anglesea Road, King Richard 1 <sup>st</sup> Street, Lord Montgomery Way, St Michaels Road N, Anglesea Road N. Queen Street S, The Hard E, Park Road.	<b>RM</b>
12A	South	M275 S (from Tipner Masts), Princess Royal Way, Mile End Road, Rudmore RAB, M275 N turn around, M275 S (salt from slip for Rudmore), Mile End Road S, Church Road RAB, Mile End Road N, M275 to masts. Return to yard.	<b>RM</b>

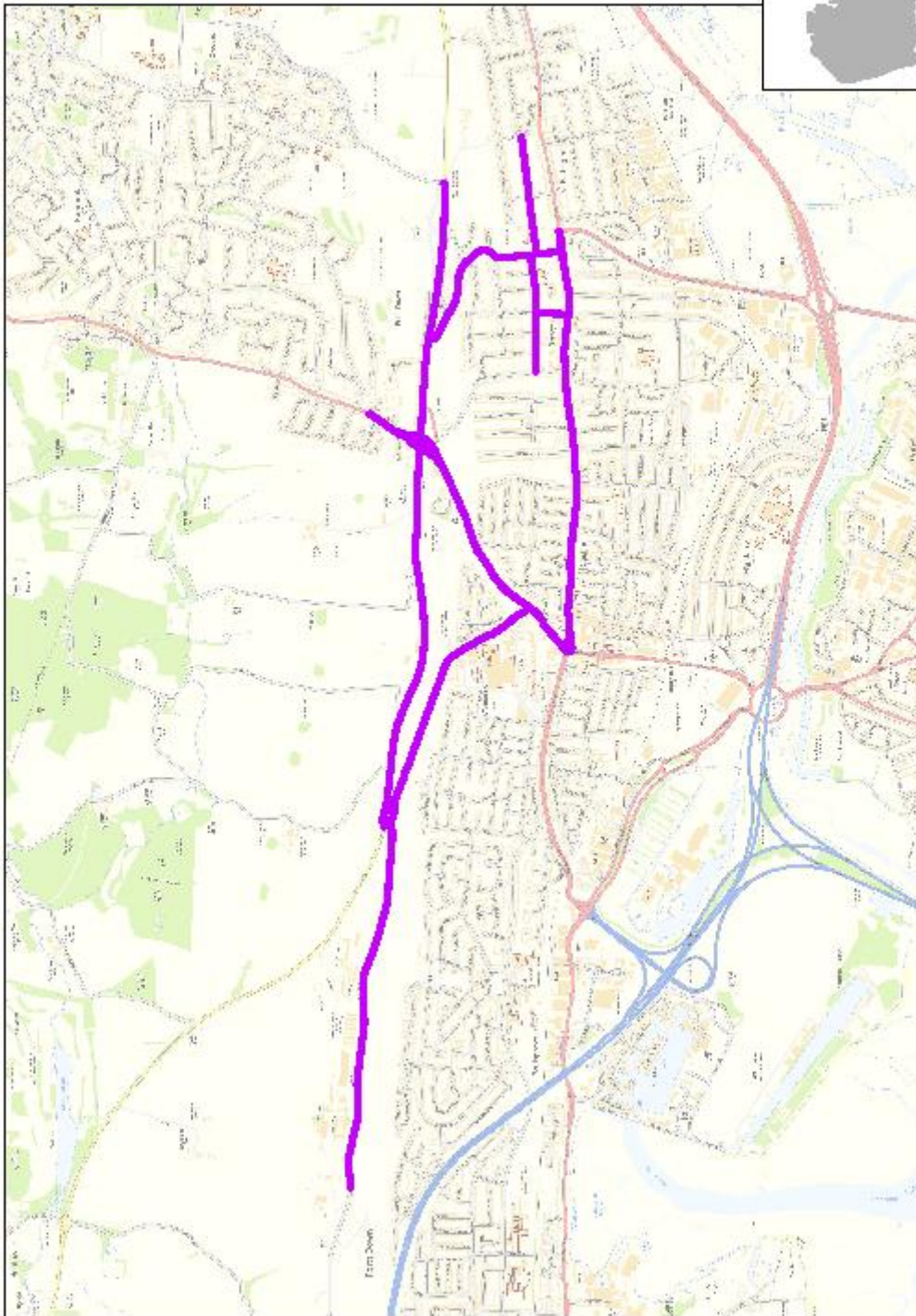
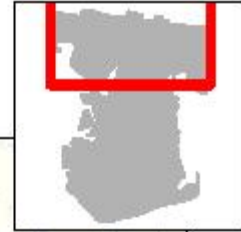
## Summary of Priority 2 Salt Routes

<b>Route No.</b>	<b>Route Area</b>	<b>Key Roads/Locations</b>	<b>Design Responsibility</b>
13	North	Walton Road, Station Road, Central Road, Lower Drayton Lane, Court Lane	<b>RM</b>
14	North	Medina Road (Northern to Parr), Parr Road (Medina to Bell), Bell Road (Parr to Winterhill), Winterhill Road (Bell to Medina).	<b>RM</b>
15	North	Credenhill Road (Allaway to Ludlow), Woofferton Road	<b>RM</b>
16	North	Sywell Crescent, Robinson Way, Moneyfields Avenue Bus Lane, Moneyfields Avenue, Martin Road, Eastbourne Road, Cobden Avenue, Idsworth Road, Neville Road, Hayling Avenue	<b>RM</b>
17	South	Moorings Way, Furze Lane, Locksway Road, Priory Crescent	<b>RM</b>
18	Central	Gladys Avenue, Gunstore Road, Limberline Road, Mayfield Road	<b>RM</b>
19	Central	Tipner Lane, Range Green, Tipner Road, Walker Road	<b>RM</b>
20	South	Gamble Road, Malins Road, Sultan Road, Nelson Road, Wingfield Street	<b>RM</b>
21	Central	Flathouse Road, Prospect Road, Whale Island Way	<b>RM</b>
22	South	Winter Road, Festing Road, Francis Avenue, Jessie Road, Devonshire Square, Devonshire Avenue	<b>RM</b>
23	South	Bransbury Road, Ferry Road, Lumsden Road, Fort Cumberland Road, Henderson Road, Eastney Esplanade, Southsea Esplanade	<b>RM</b>
24	Central	Somers Road South, Cottage Grove, Green Road, Norfolk Street, Eldon Street, Middle Street, High Street Old Portsmouth, Broad Street, Seagers Court, Trimmers Court, East Street	<b>RM</b>
25	South	Outram Road, Campbell Road, Grove Road South, Marmion Road, Kent Road, Portland Road, Avenue De Caen, Clarence Esplanade W, Southsea Terrace, Western Parade, Clarence Parade, Clarence Esplanade E.	<b>RM</b>

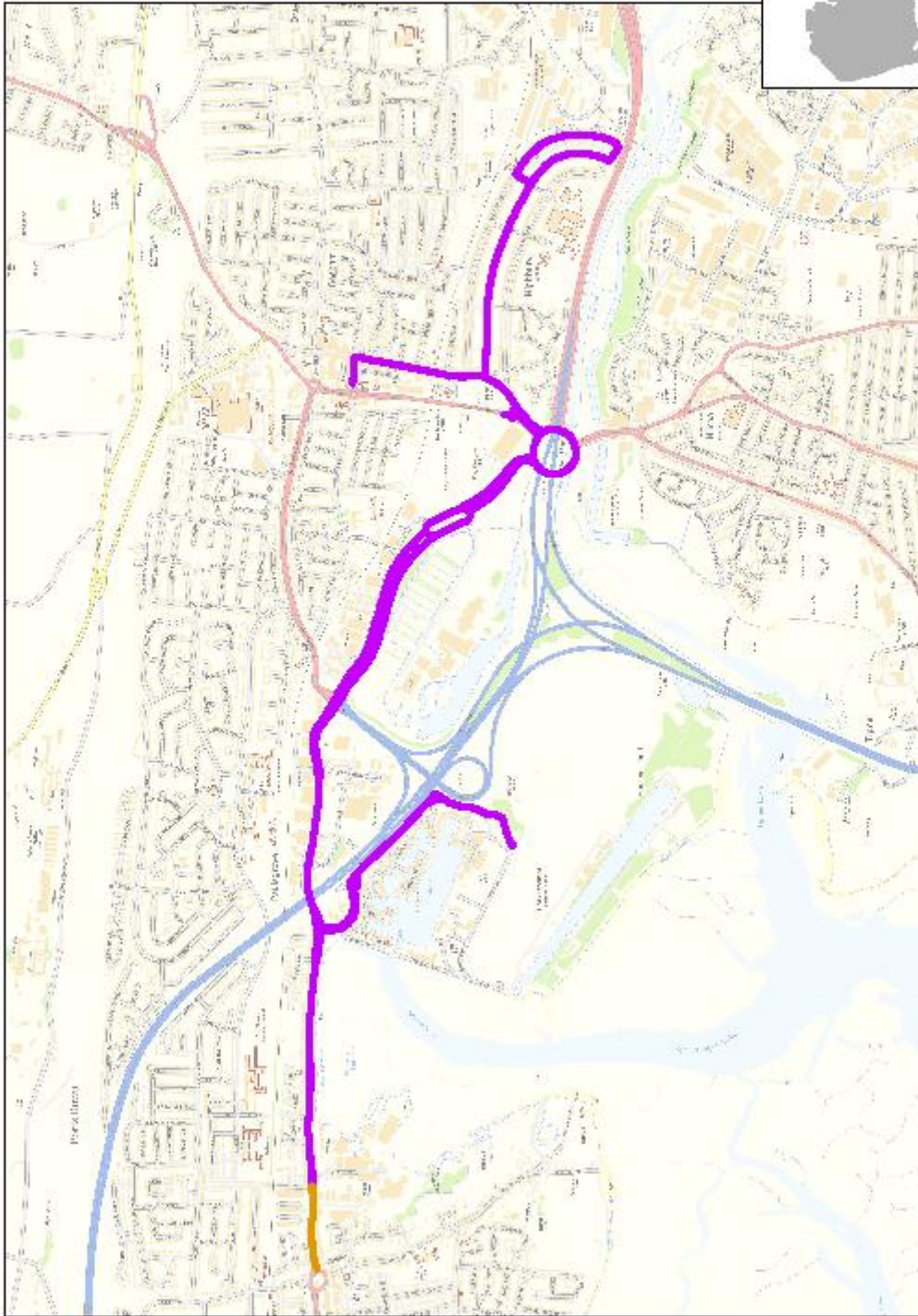
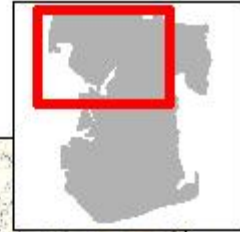




## Route: 2

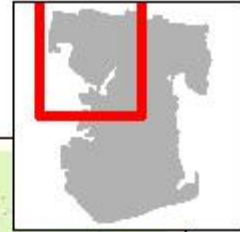


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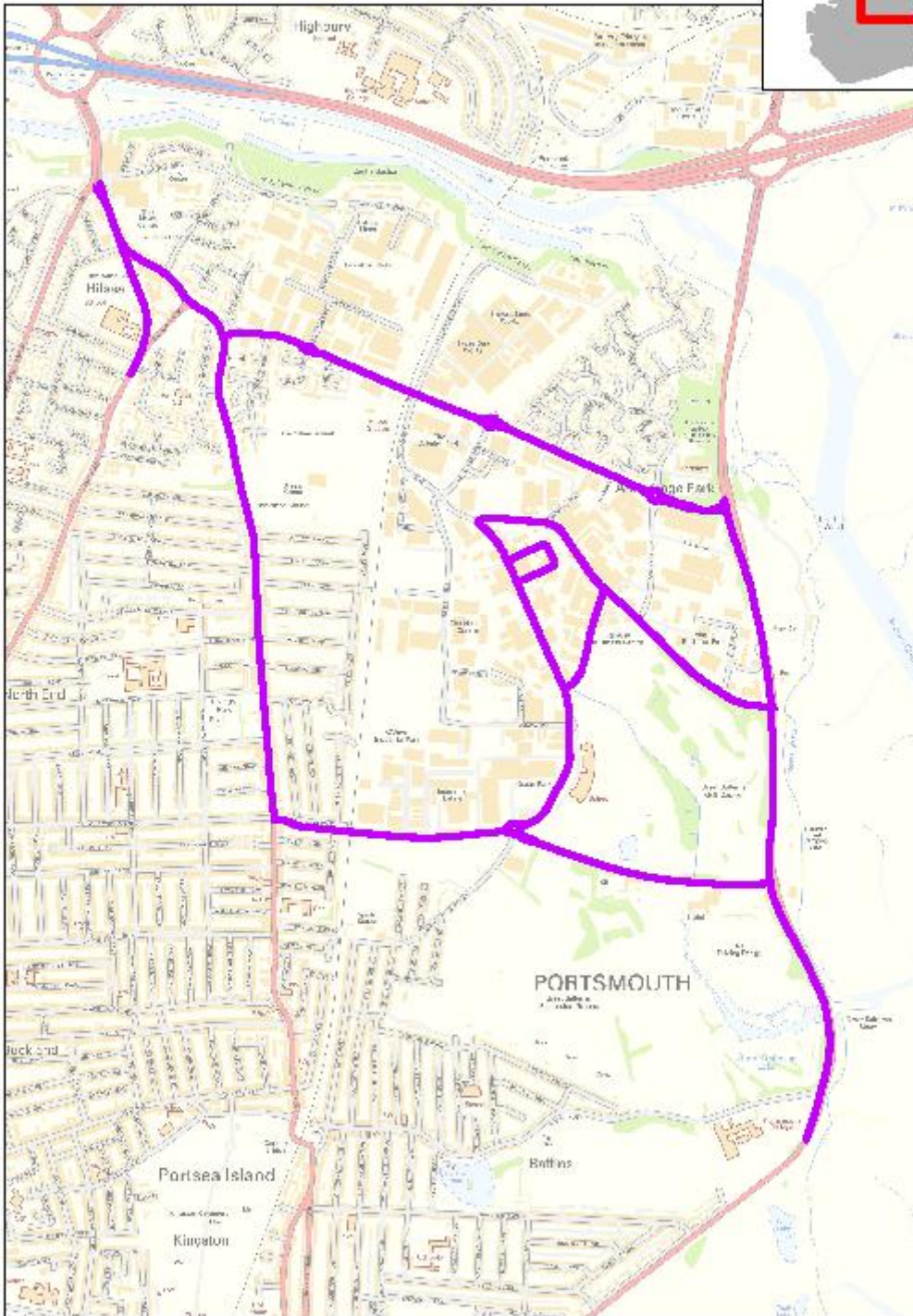
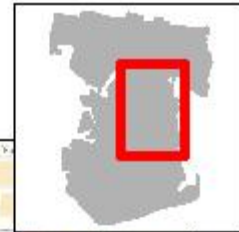


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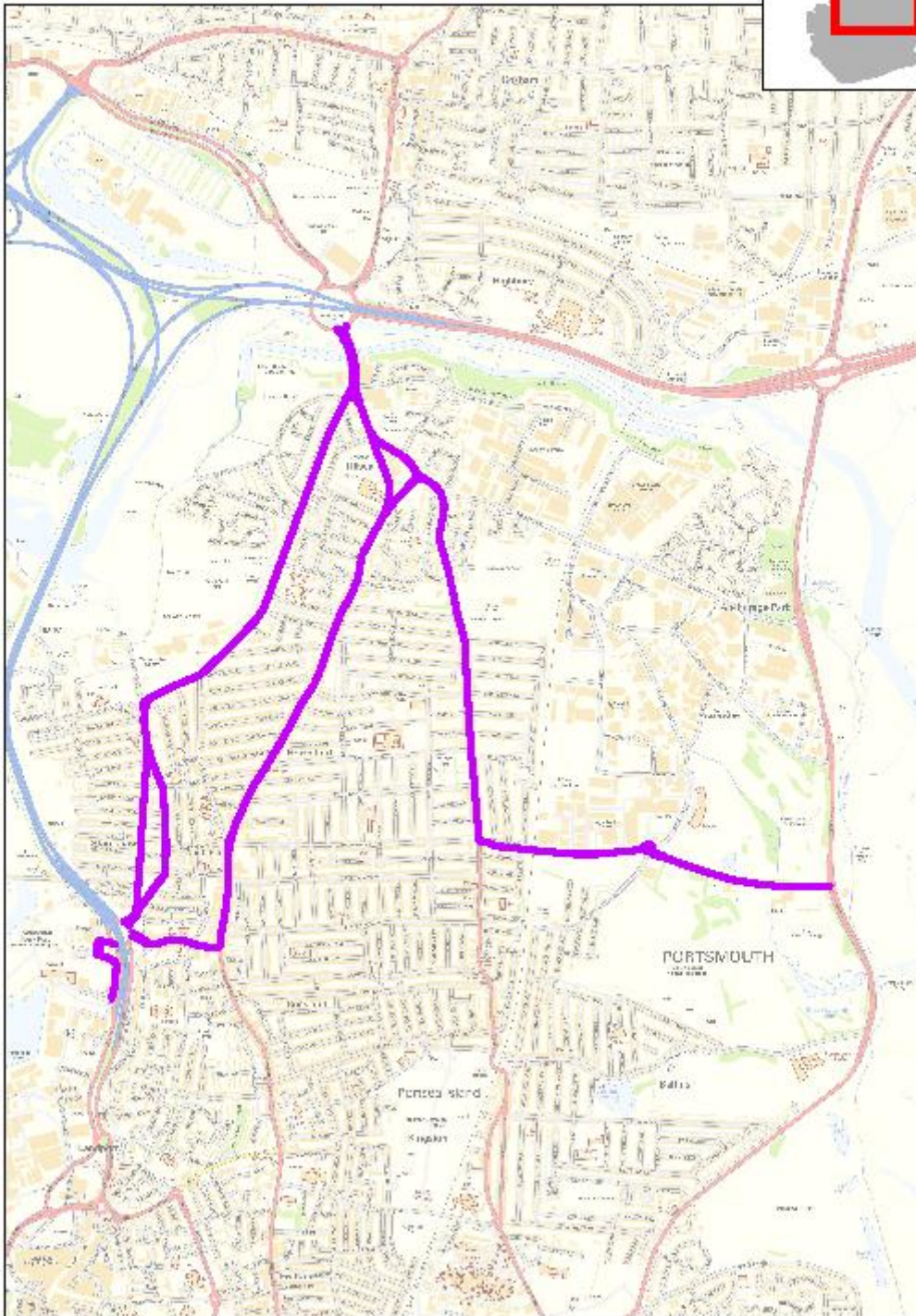
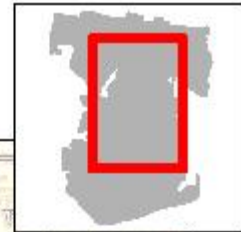




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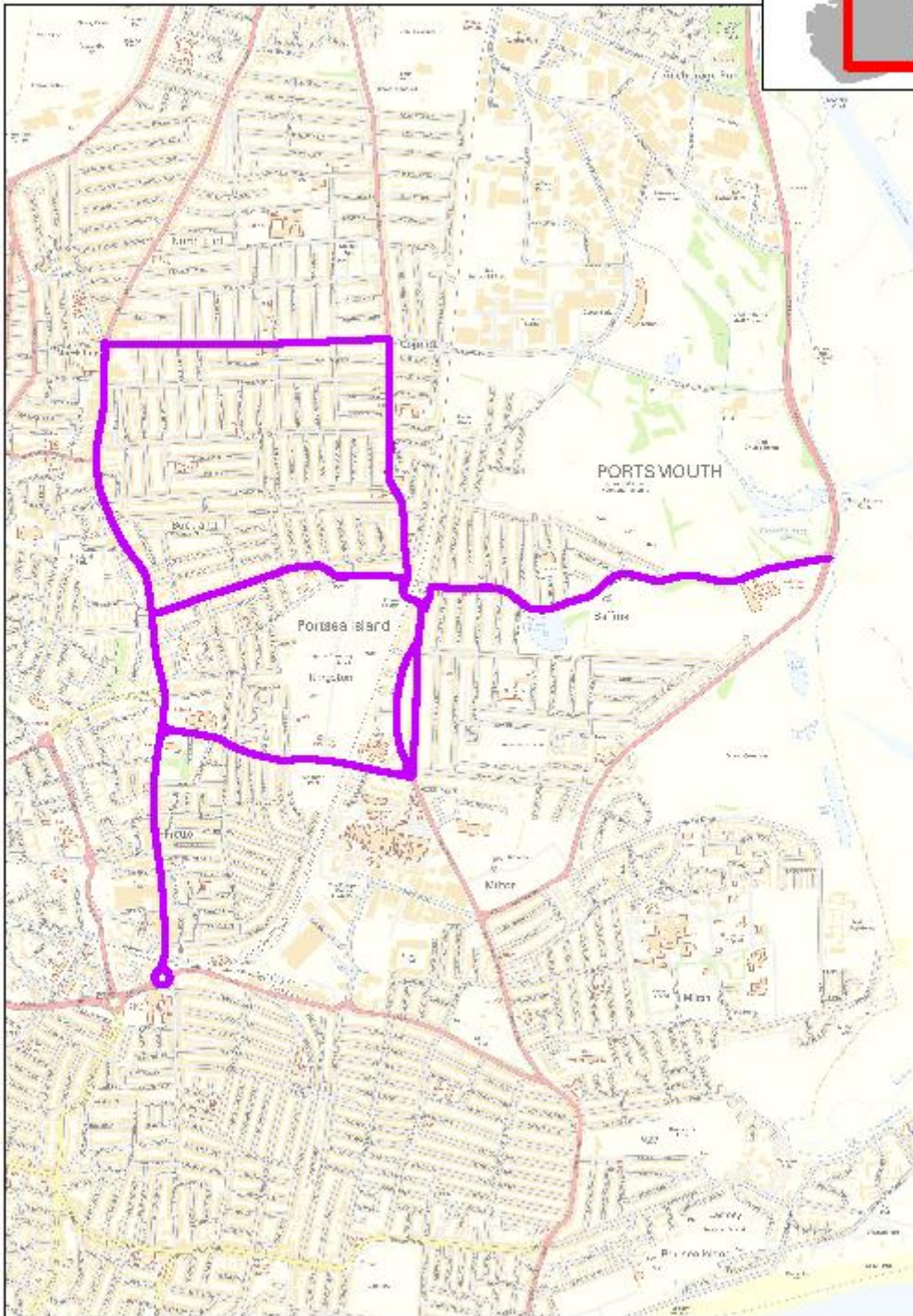
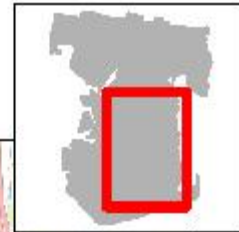


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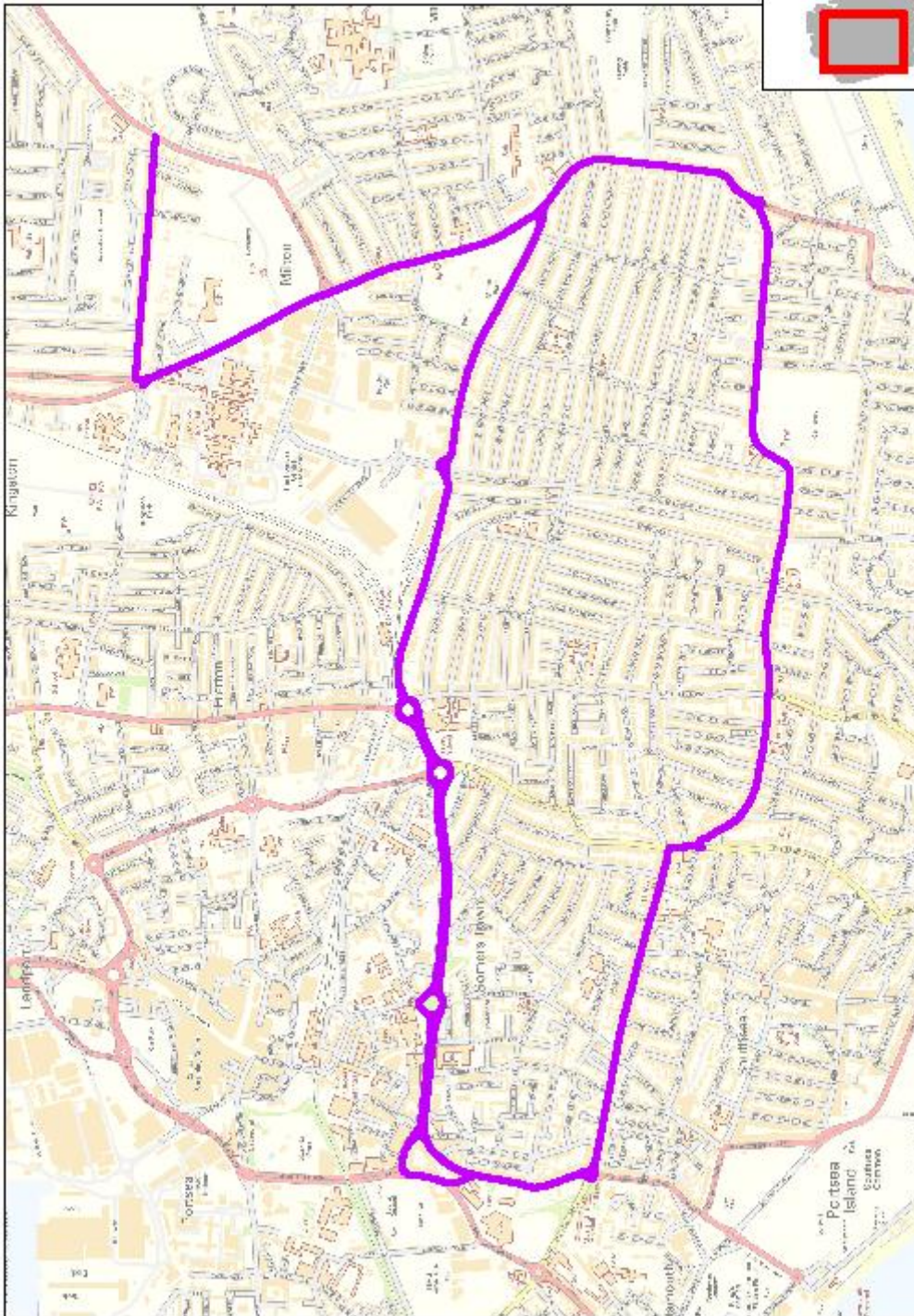
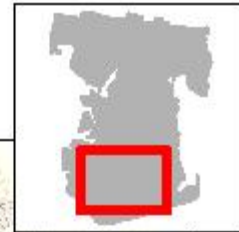


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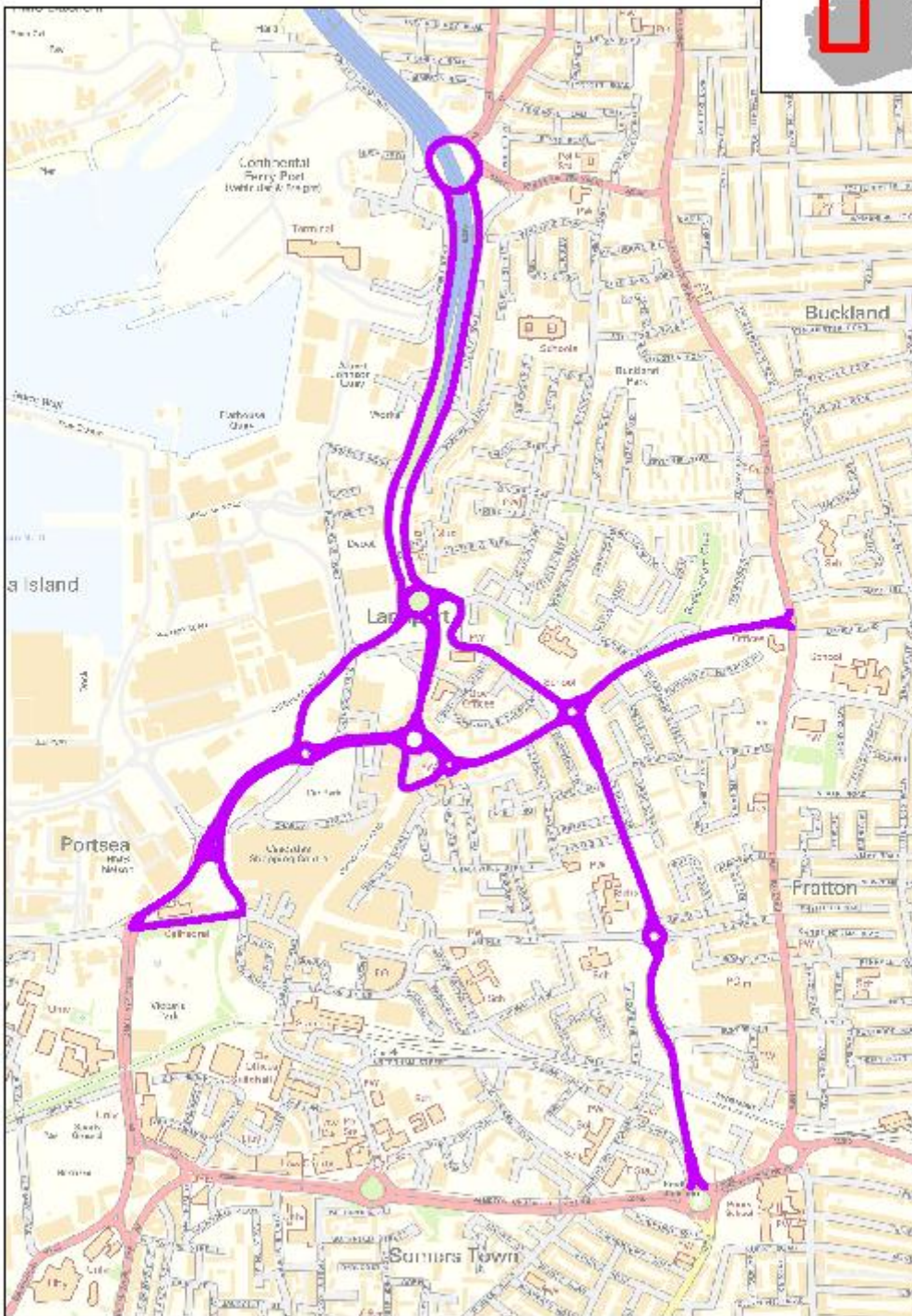
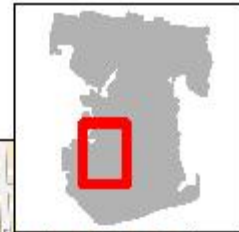


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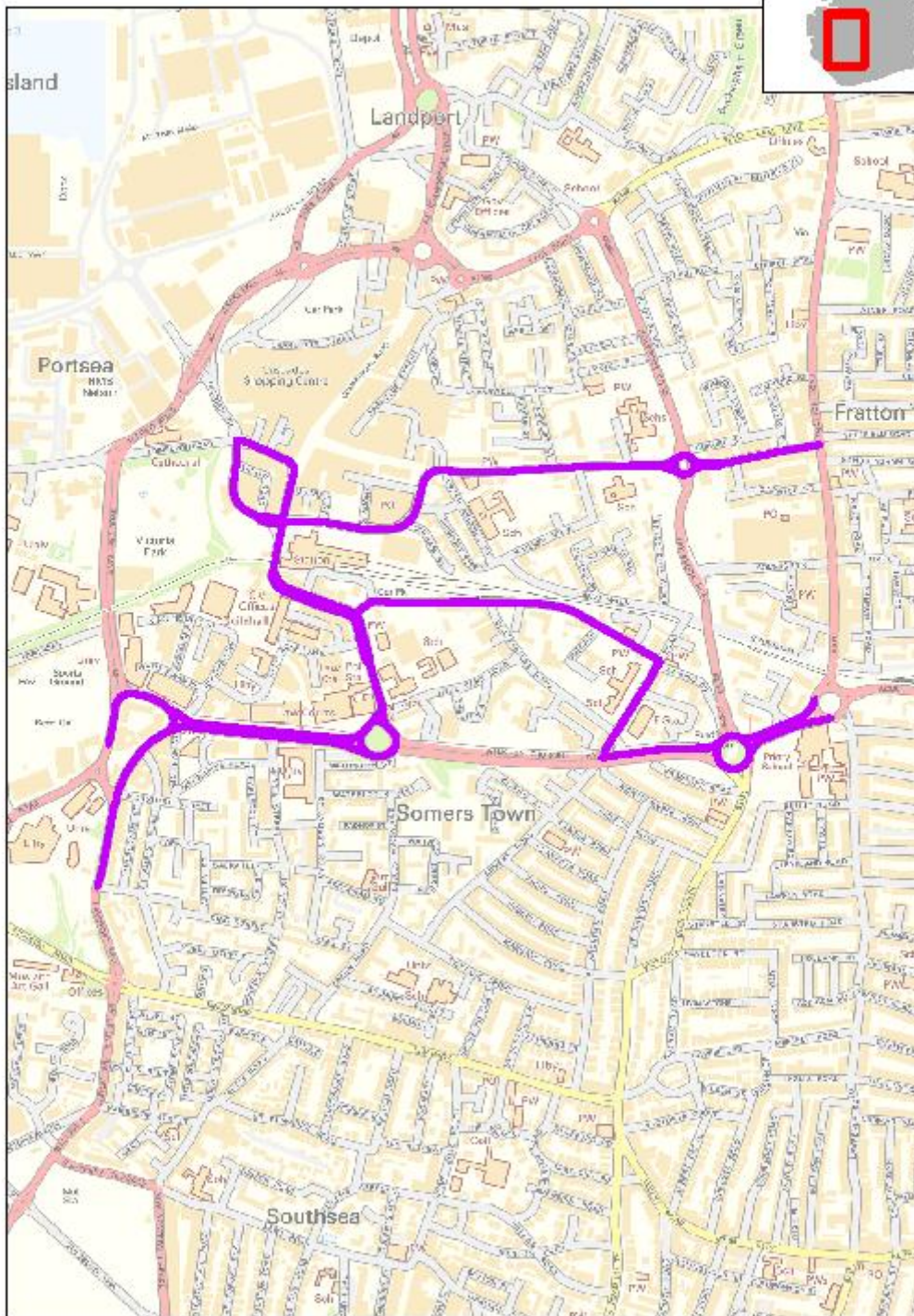
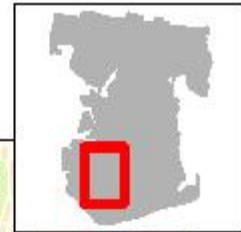


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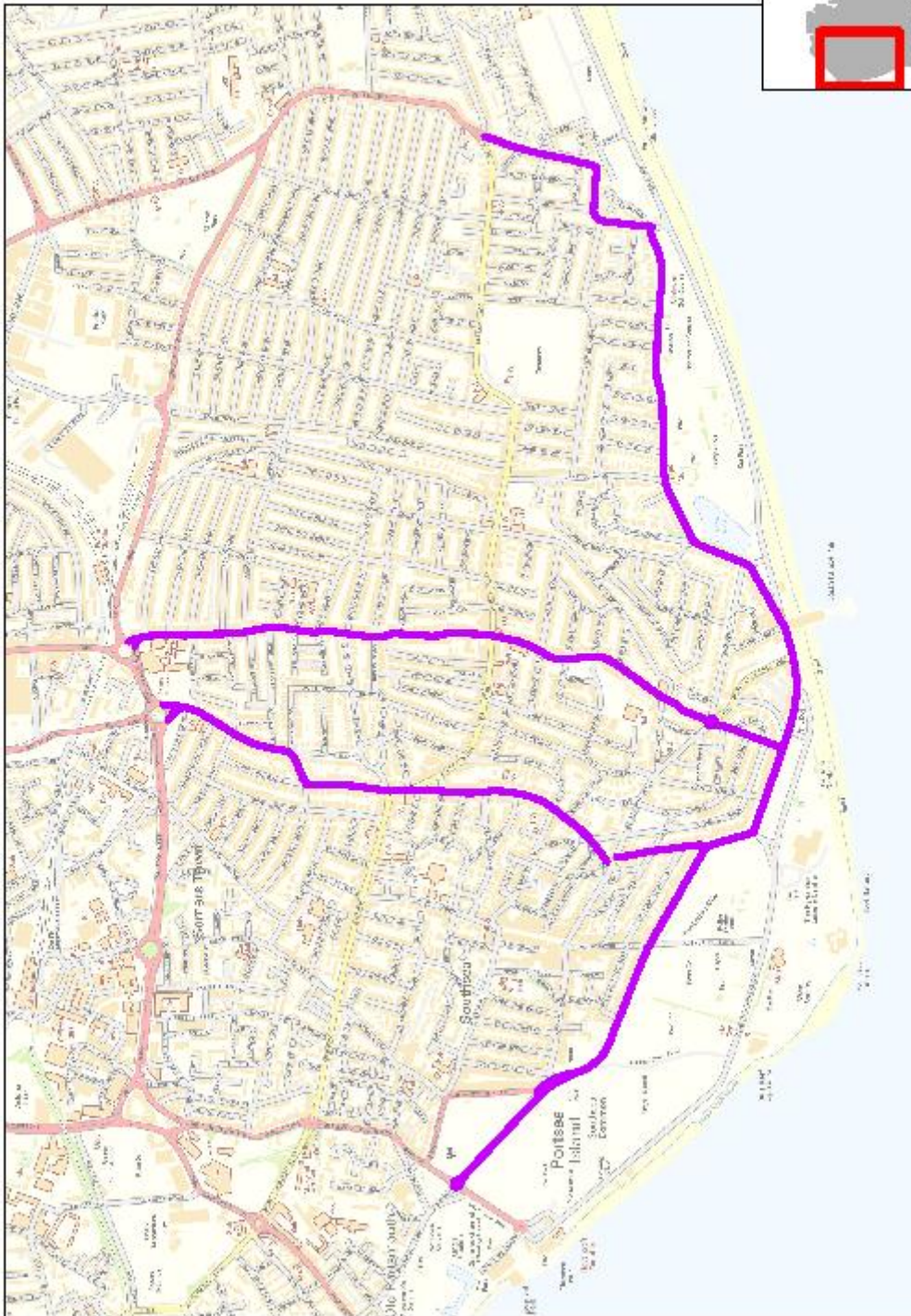
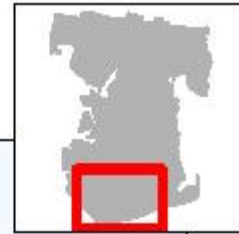


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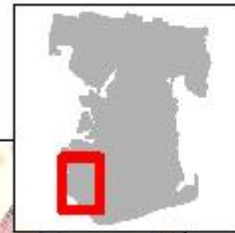




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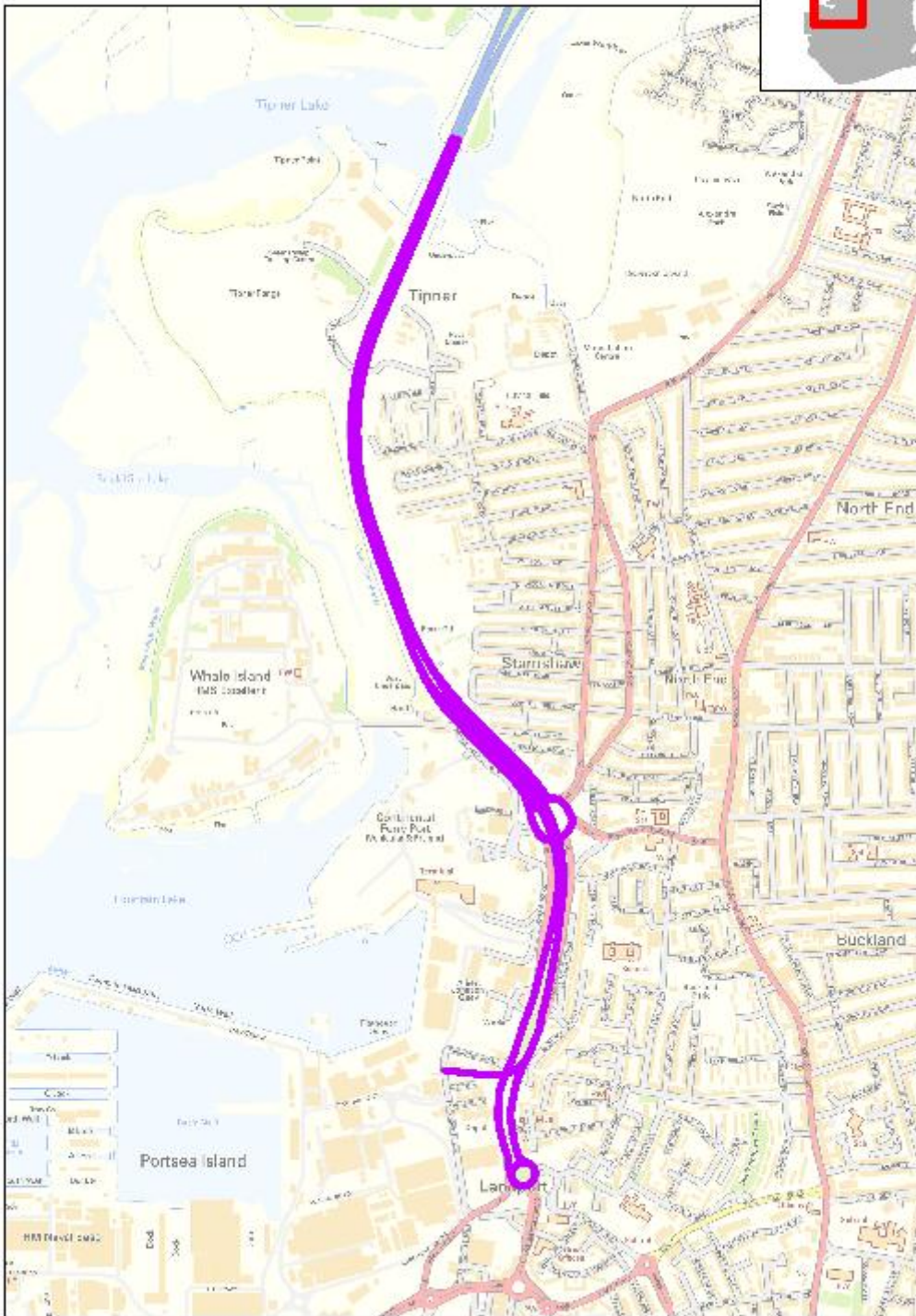
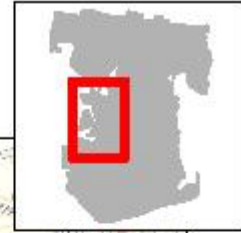


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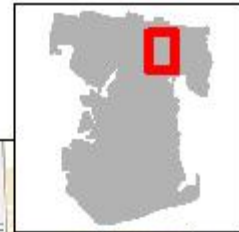




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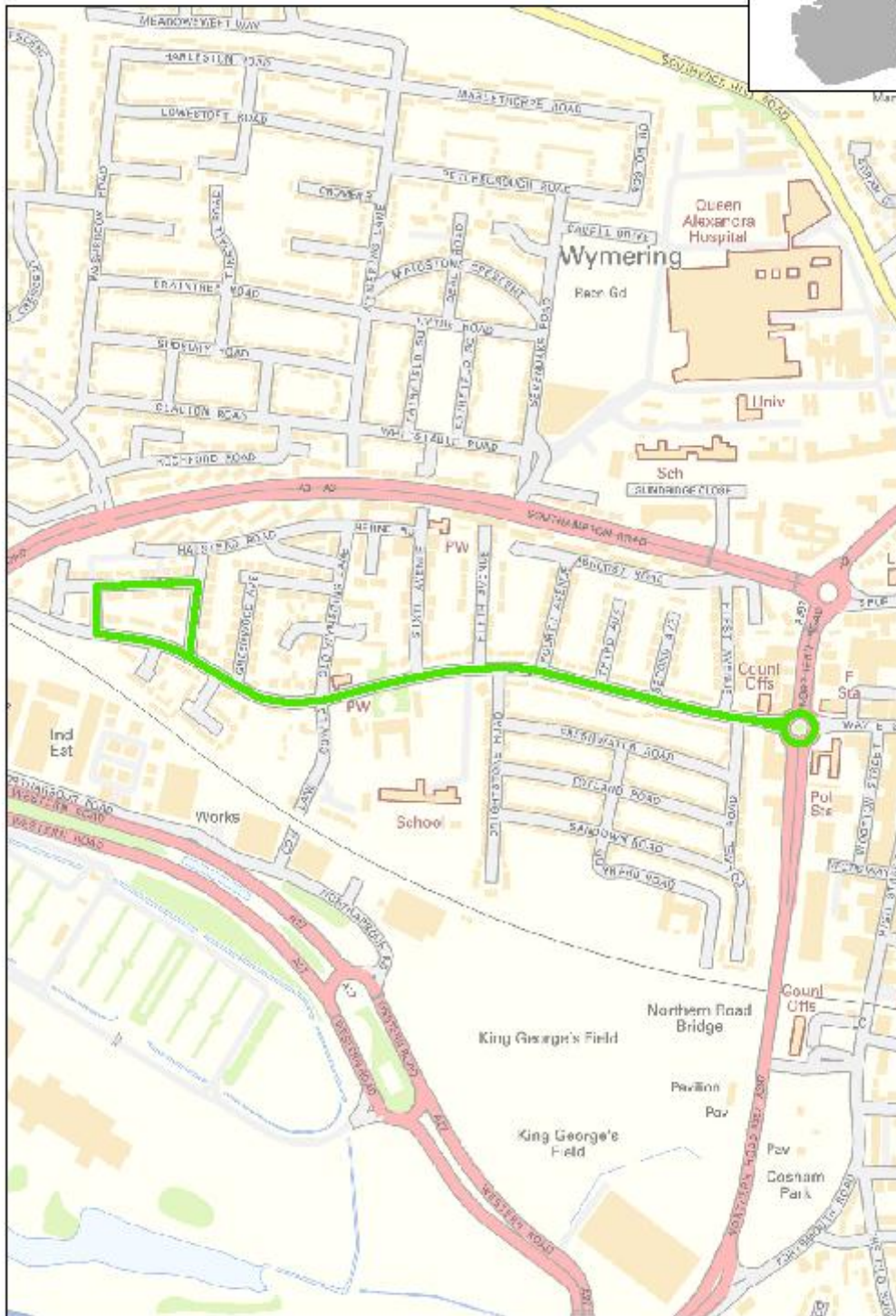


# Route: 13





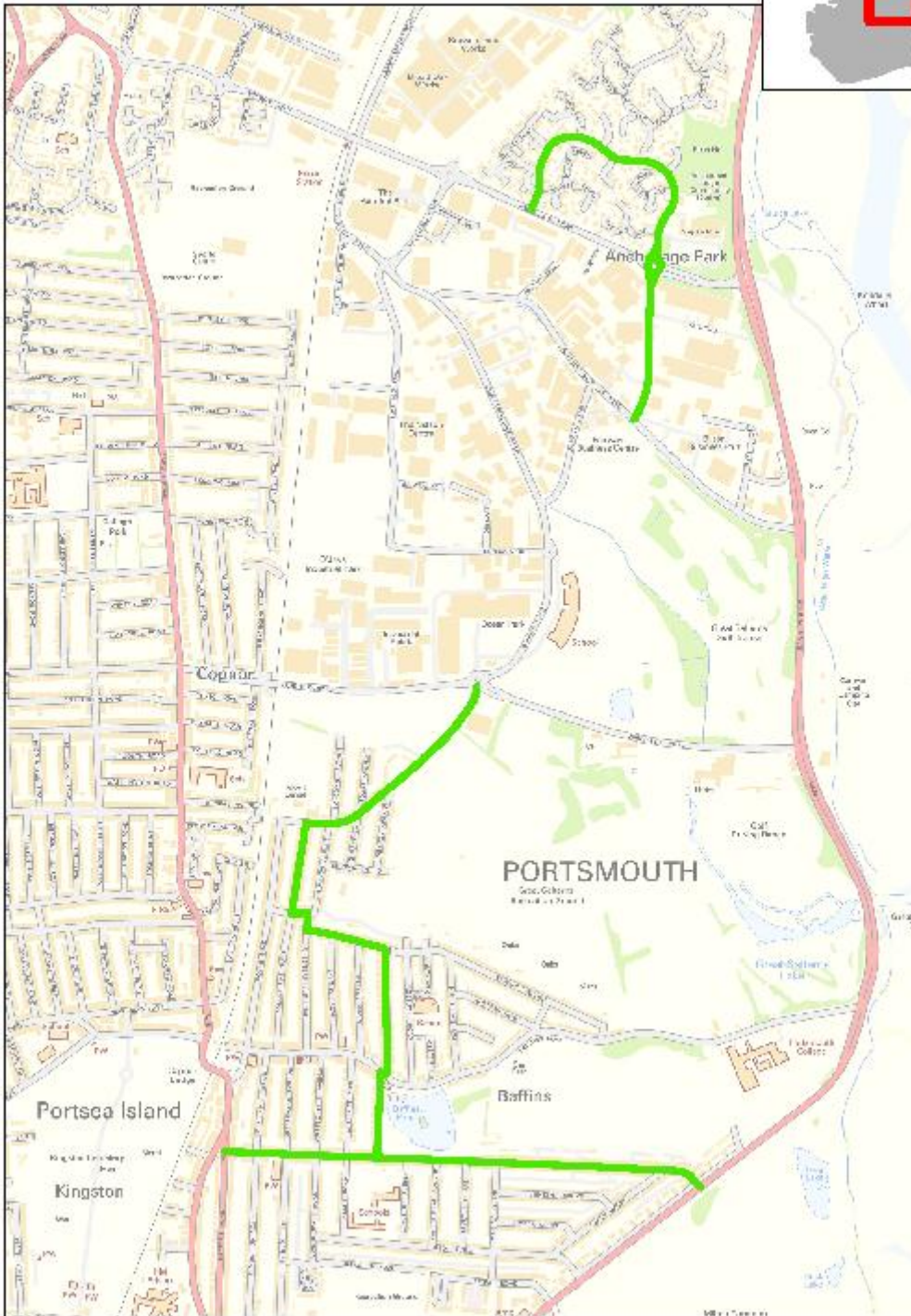
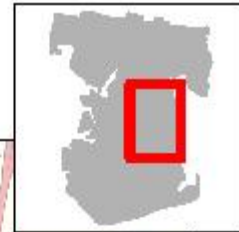
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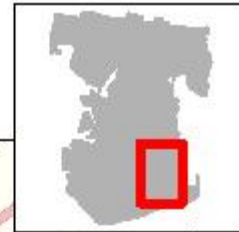




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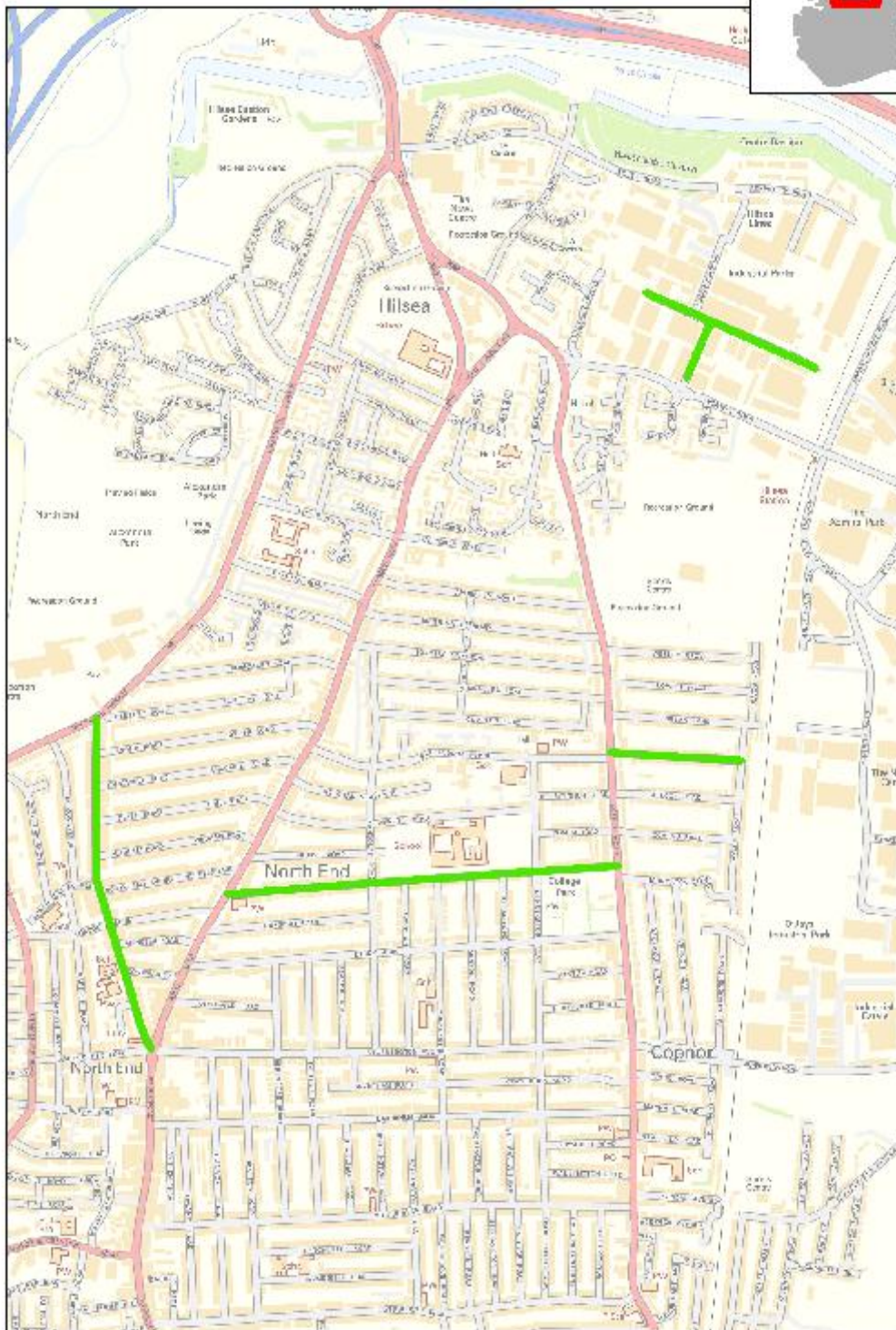
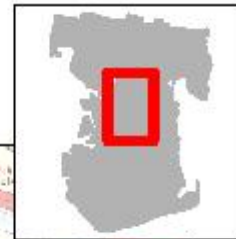


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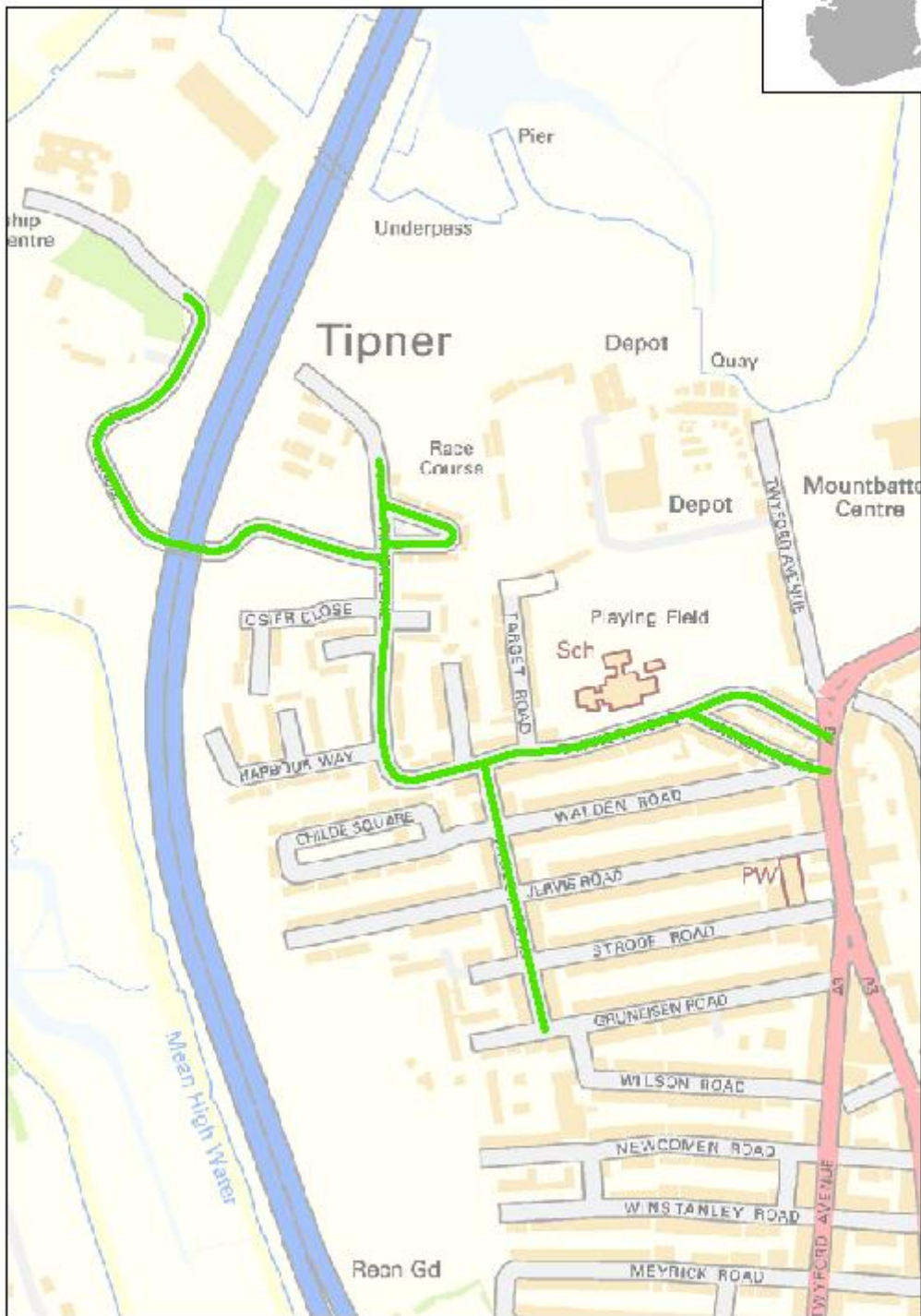
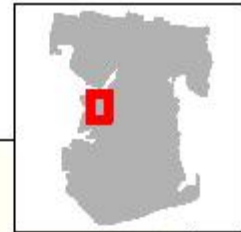




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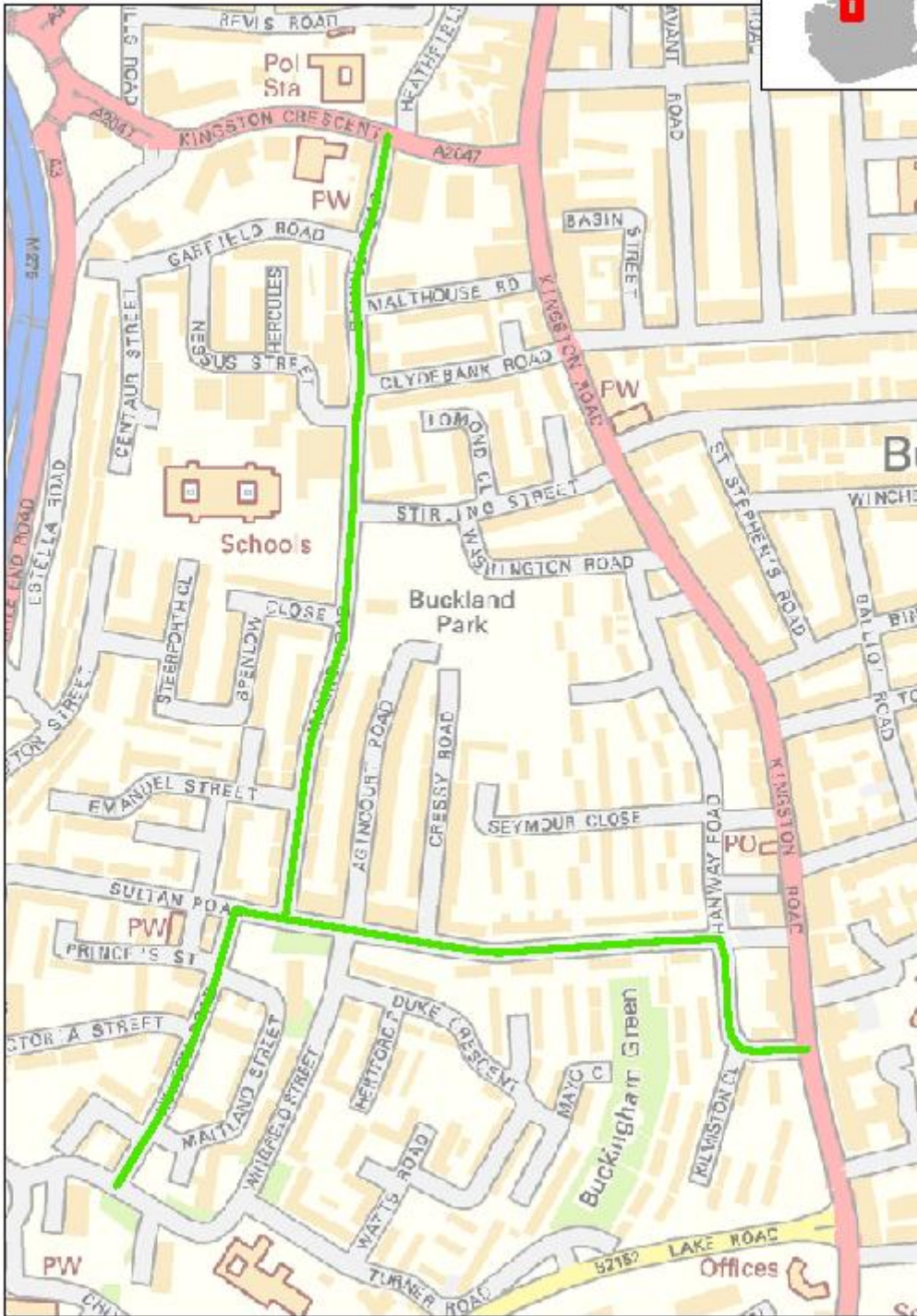


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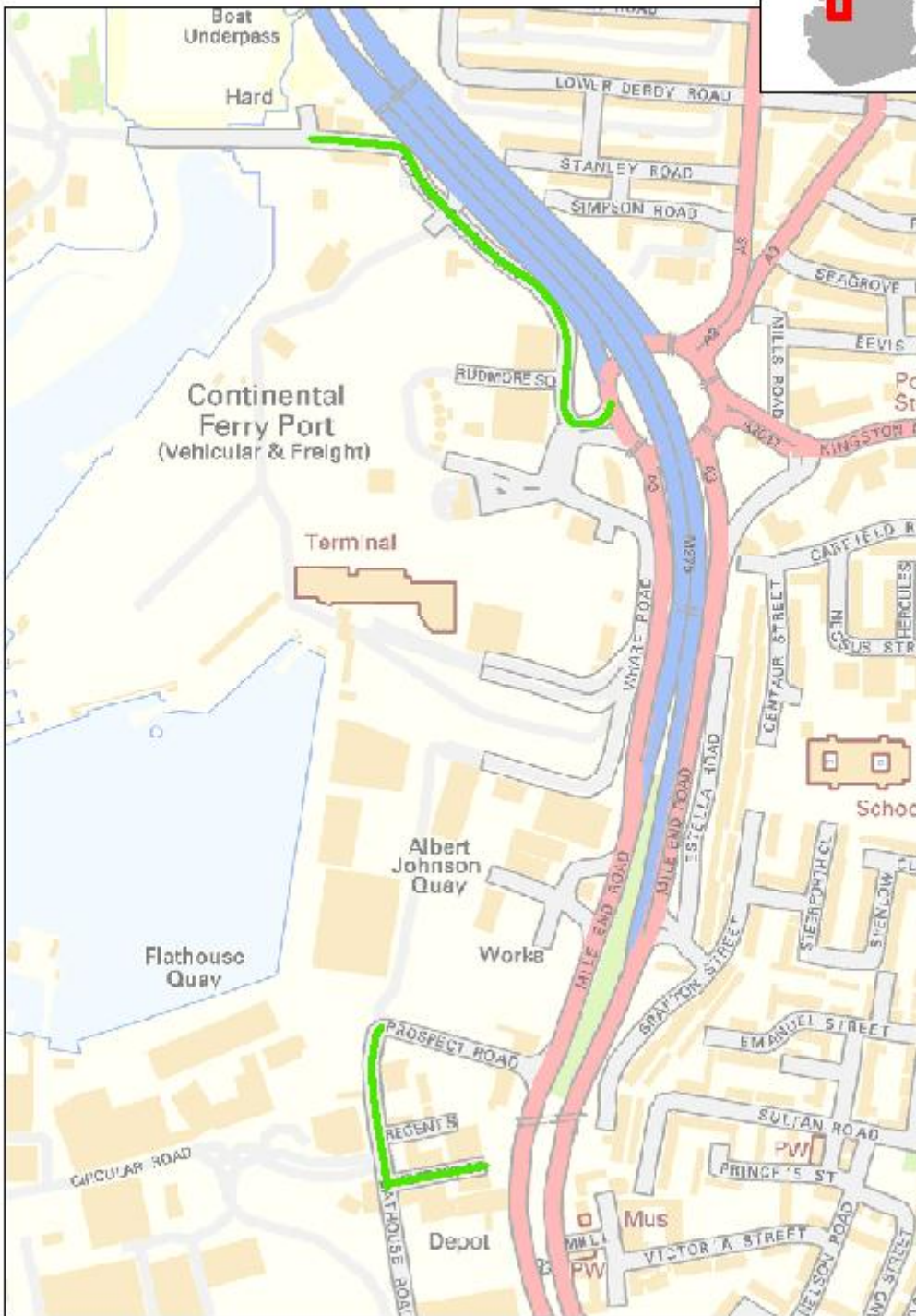
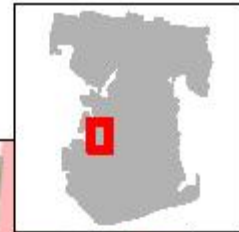




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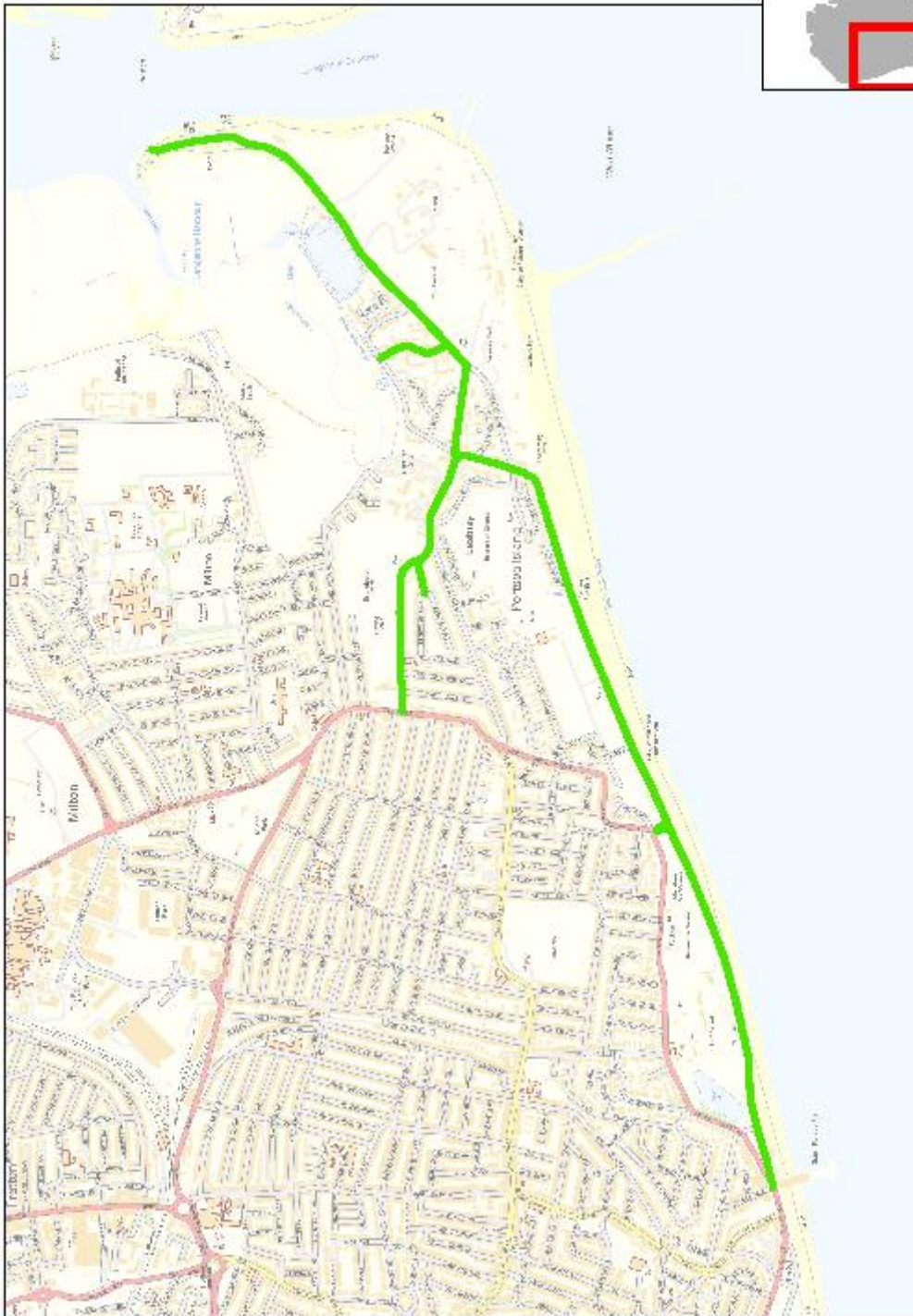
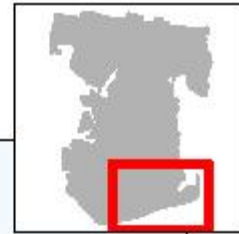
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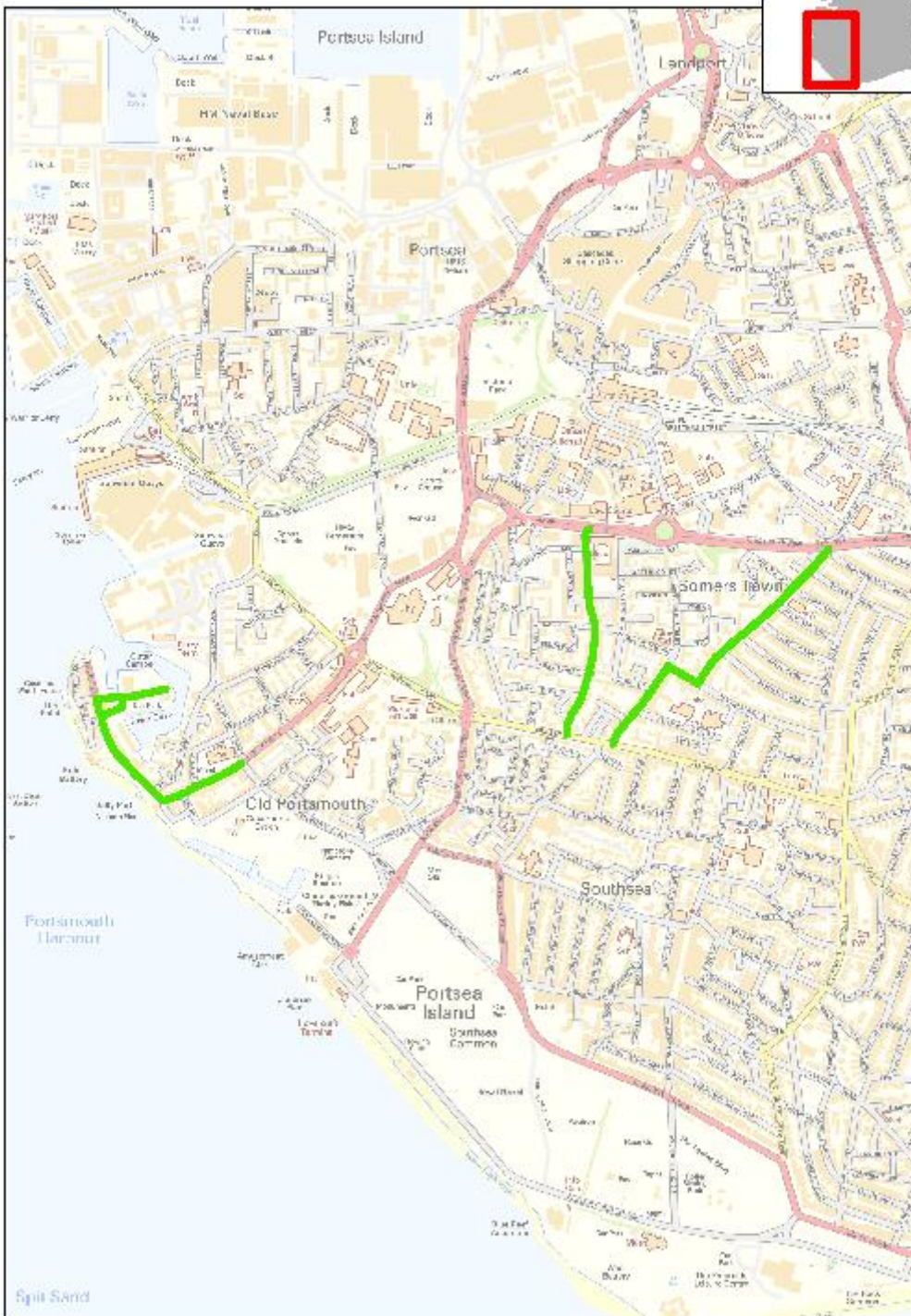


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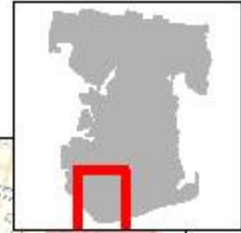




# Route: 24



# Route: 25





## Appendix D4 Salt/Grit Bin Locations

Bin No	Location
1	Coleridge Road junction Wordsworth Avenue
2	Fort Southwick junction James Callaghan Drive
3	Tintern Close junction Winterbourne Road
4	Lime Grove opposite No 3
5	Allaway Avenue adjacent lamp column 33
6	Racecourse Lane opposite Community Centre
7	Racecourse Lane adjacent lamp column 4
8	Southampton Road adjacent lamp column 72
9	Ludlow Road junction Blakemere Crescent
9A	Meadowsweet Way junction Wymering Lane
10	Wymering Lane junction Hythe Road
11	Sundridge Close adjacent lamp column 3
12	Southwick Hill Road junction QA Hospital Emergency Access
12A	Southwick Hill Road junction QA Hospital Main Entrance
13	London Road junction Southwick Hill Road
14	London Road junction Chalkridge Road
15	Widley Path near Widley Road
16	East Cosham Road junction Courtmount Grove
17	London Road near lamp column 48
18	Dell Close adjacent garages opposite No 2
19	Oakhurst Gardens junction A3
20	Christchurch Road junction A3
21	Hilltop Crescent junction Portsdown Hill Road
22	Penrhyn Avenue junction Penarth Avenue
23	Uplands Road junction Seaview Road
24	Farlington Avenue junction Blake Road
25	Gillman Road junction Woodfield Avenue
26	Beverley Grove junction Portsdown Hill Road
27	Second Avenue side of No 144
28	Havant Road junction Waterworks Road
29	Central Road junction Station Road
30	Havant Road outside 174
31	Hilary Avenue opposite 34
32	Medina Road junction Northern Road
33	Northern Road outside Royal Mail (South of Bus Shelters)
34	Northern Road Bus Terminal access
35	Portsmouth Road Bus Terminal access
36	Northern Road northbound approach Portsbridge RAB
37	Northern Road southbound approach Portsbridge RAB
38	Western Road junction Portsbridge RAB
39	Tudor Crescent opposite No 35
40	London Road (the old water bridge)
41	Walton Road (on bridge)
42	Walton Road adjacent lamp column 30
43	Walton Road junction access road to Colas Depot
44	London Road opposite Hilsea Lido adjacent lamp column 126
45	London Road south of footbridge Hilsea Lido
46	London Road junction metal footbridge (Grit Only)
47	Military Road junction London Road (Grit Only)
48	Norway Road approach bridge East
48A	Norway Road approach bridge West
49	Tipner Lane junction Tipner Road
50	Moneyfields Avenue side of 199 Dover Road adjacent lamp column 2

Bin No	Location
51	Copnor Bridge junction Tangiers Road
52	New Road opposite No 313
53	Sultan Road adjacent underpass
54	St Marys Road adjacent bridge East
54A	St Marys Road adjacent bridge West
55	Stanhope Road junction Commercial Road
56	Greetham Street adjacent Jacobs Ladder
57	Northumberland Road on island adjacent to Nameplate
58	Fratton Road southbound near Selbourne Terrace
59	Goldsmith Avenue junction Francis Avenue
60	Goldsmith Avenue junction Milton Road
61	Bransbury Road adjacent lamp column 12
62	Ferry Road west of lamp column 55
63	Southsea Esplanade junction St Helens Parade
64	Richmond Place side of Waitrose
65	Clarence Esplanade outside Hovertravel
66	Cambridge Road junction St Michaels Road
67	The Hard entrance to Interchange
68	The Hard exit to Interchange
69	Kingsley Road outside Flat 188-194
70	Broom Square junction with Broom Close
71	Burrill Avenue outside No 39
72	London Road junction of Portsdown Hill Road
73	Galt Road junction of Grant Road
74	Portsdown Avenue junction of Moortown Avenue
75	Alec Rose Lane junction Mary Rose Street
76	Drayton Lane junction Down End Road

- Total 80 No (including 9A, 12A, 48A and 54A)



## Appendix D5 - Salt/Grit Bin Check Sheet

	Location	Condition G = good F = fair P = poor	Contents F = full H = half full E = empty	Comments	Inspection date
1	Coleridge Road junction Wordsworth Avenue				
2	Fort Southwick junction James Callaghan Drive				
3	Tintern Close junction Winterbourne Road				
4	Lime Grove opposite No 3				
5	Allaway Avenue adjacent lamp column 33				
6	Racecourse Lane opposite Community Centre				
7	Racecourse Lane adjacent lamp column 4				
8	Southampton Road adjacent lamp column 72				
9	Ludlow Road junction Blakemere Crescent				
9A	Meadowsweet Way junction Wymering Lane				
10	Wymering Lane junction Hythe Road				
11	Sundridge Close adjacent lamp column 3				
12	Southwick Hill Road junction QA Hospital Emergency Access				
12A	Southwick Hill Road junction QA Hospital Main Entrance				
13	London Road junction Southwick Hill Road				
14	London Road junction Chalkridge Road				
15	Widley Path near Widley Road				
16	East Cosham Road junction Courtmount Grove				
17	London Road near lamp column 48				
18	Dell Close adjacent garages opposite No 2				
19	Oakhurst Gardens junction A3				
20	Christchurch Road junction A3				
21	Hilltop Crescent junction Portsdown Hill Road				
22	Penrhyn Avenue junction Penarth Avenue				
23	Uplands Road junction Seaview Road				
24	Farlington Avenue junction Blake Road				
25	Gillman Road junction Woodfield Avenue				
26	Beverley Grove junction Portsdown Hill Road				
27	Second Avenue side of No 144				
28	Havant Road junction Waterworks Road				
29	Central Road junction Station Road				
30	Havant Road outside 174				
31	Hilary Avenue opposite 34				
32	Medina Road junction Northern Road				
33	Northern Road outside Royal Mail (South of Bus Shelters)				
34	Northern Road Bus Terminal access				
35	Portsmouth Road Bus Terminal access				
36	Northern Road northbound approach Portsbridge RAB				
37	Northern Road southbound approach Portsbridge RAB				
38	Western Road junction Portsbridge RAB				
39	Tudor Crescent opposite No 35				

	Location	Condition G = good F = fair P = poor	Contents F = full H = half full E = empty	Comments	Inspection date
40	London Road (the old water bridge)				
41	Walton Road (on bridge)				
42	Walton Road adjacent lamp column 30				
43	Walton Road junction access road to Colas Depot				
44	London Road opposite Hilsea Lido adjacent lamp column 126				
45	London Road south of footbridge Hilsea Lido				
46	London Road junction metal footbridge (Grit Only)				
47	Military Road junction London Road (Grit Only)				
48	Norway Road approach bridge East				
48A	Norway Road approach bridge West				
49	Tipner Lane junction Tipner Road				
50	Moneyfields Avenue side of 199 Dover Road adjacent lamp col 2				
51	Copnor Bridge junction Tangiers Road				
52	New Road opposite No 313				
53	Sultan Road adjacent underpass				
54	St Marys Road adjacent bridge East				
54A	St Marys Raod adjacent bridge West				
55	Stanhope Road junction Commercial Road				
56	Greetham Street adjacent Jacobs Ladder				
57	Northumberland Road on island adjacent to Nameplate				
58	Fratton Road southbound near Selbourne Terrace				
59	Goldsmith Avenue junction Francis Avenue				
60	Goldsmith Avenue junction Milton Road				
61	Bransbury Road adjacent lamp column 12				
62	Ferry Road west of lamp column 55				
63	Southsea Esplanade junction St Helens Parade				
64	Richmond Place side of Waitrose				
65	Clarence Esplanade outside Hovertravel				
66	Cambridge Road junction St Michaels Road				
67	The Hard entrance to Interchange				
68	The Hard exit to Interchange				
69	Kingsley Road outside flats 188-194				
70	Broom Square junction Broom Close				
71	Burrill Avenue outside 39				
72	London Road junction Portsdown Hill Road (on island)				
73	Grant Road junction Galt Road				
74	Portsdown Avenue junction Moortown Avenue				
75	Alec Rose Lane junction Mary Rose Street				
76	Drayton Lane junction Down End Road				
<b>Print Name:</b>		<b>Signature:</b>		<b>Date:</b>	

## Appendix E - Detailed identification of FW leading to schools

Please note that for each school identified below Colas hold electronically a detailed map describing location of the FW to be treated and recommended snow pile locations.

Name	Address / Location	Street	District	Postcode	Use	Closest CW treated		Distance from main road to gate (lm)	Total area (sqm) to treat	Snow storage location	Description of path to clear						Comments	Map
						Road	Category				From junction between			From junction between				
											Road	Road	Side	Road	Road	Side		
Solent Junior School	42	Solent Road	Farlington / Drayton	PO6 1HJ	junior school	Solent Road	1	68	136	junction Dene Hollow / Solent Road	n/a	n/a	North	n/a	n/a	n/a	Direct access from school to the main road (clearance needed just in front of the school)	<a href="#">Map</a>
Solent Infant School	Opposite of 4-18	Eveleigh Road	Farlington / Drayton	PO6 1HJ	infant school	Eveleigh Road	1	67	134		n/a	n/a	South	n/a	n/a	n/a	Direct access from school to the main road (clearance needed just in front of the school)	<a href="#">Map</a>
Portsdown Primary School		Sundridge Close	Cosham	PO6 3JL	Primary School	Southampton Road	1	152m	304		n/a	n/a	West	n/a	n/a	n/a		<a href="#">Map</a>
The Harbour School		Sundridge Close	Cosham	PO6 3JL	Primary School	Southampton Road	1	102	204		n/a	n/a	West	n/a	n/a	n/a		<a href="#">Map</a>
Highbury Primary School		Dovercourt Road	Cosham	PO6 2RZ	Primary School	Chatsworth Avenue	1	241	362		Dovercourt Road	Chatsworth Avenue	West	Chatsworth Avenue	Bus Access			<a href="#">Map</a>
Highbury College		Dovercourt Road	Cosham	PO6 2RZ	college	Chatsworth Avenue	1	264	396		Dovercourt Road	Chatsworth Avenue	West	Chatsworth Avenue	Bus Access		Near Highbury Primary School	<a href="#">Map</a>
Redwood Park School		Wembley Grove	Cosham	PO6 2RY	primary school	Chatsworth Avenue	1	213	320		Wembley Grove	Chatsworth Avenue	East	Chatsworth Avenue	Bus Access			<a href="#">Map</a>
Court Lane Junior School		Hilary Avenue	Cosham	PO6 2PP	junior school	Lonsdale Avenue	1	355	710		Hilary Avenue	Lonsdale Avenue	East	Lonsdale Avenue	Bus Access			<a href="#">Map</a>
Court Lane Infant School		Hilary Avenue	Cosham	PO6 2PP	infant school	Lonsdale Avenue	1	275	550		Hilary Avenue	Lonsdale Avenue	East	Lonsdale Avenue	Bus Access		Near Court Lane Junior School/ same footway	<a href="#">Map</a>
Springfield School		Central Road	Cosham	PO6 1QY	secondary school	Grove Road	1	80	160		n/a	n/a	North	n/a	n/a	n/a	Direct access from school to the main road (clearance needed just in front of the school)	<a href="#">Map</a>
Medina Primary School	106	Medina Road	Cosham	PO6 3NH	primary school	Medina Road	2	145	290	Jonction Medina Road/Brightone Road	School	Bus access	South (35m)	n/a	n/a	n/a	Direct access from school to the main road (clearance needed just in front of the school)	<a href="#">Map</a>
Paulsgrove Primary School	Opposite of 1-12 Downtown House	Cheltenham Road	Paulsgrove	PO6 3PL	primary school	Allaway Avenue	1	107	177	Greenspace near school	School	Bus access	North (37m)	School	Bus Access	South (70 m)	Direct access from school to the main road (clearance needed just in front of the school)	<a href="#">Map</a>

St Paul RC Primary School	253	Bourne Road	Paulsgrove	PO6 4JD	primary school	Allayway Avenue	1	174	522		Bourne Road	Allaway Avenue	South	Jonction Bourne Road/Allaway Avenue	Bus Access	South		<a href="#">Map</a>
King Richard School	342	Allayway Avenue	Paulsgrove	PO6 4QP	primary school	Allayway Avenue	1	165	330	Greenspace near school	School	Bus access	South (70m)	School	Bus access	North (80m)	Direct access from school to the main road (clearance needed just in front of the school)	<a href="#">Map</a>
City of Portsmouth Boys School		London Road	Hilsea	PO2 9RS		London Road	1	15	93	Near School	n/a	n/a	n/a	n/a	n/a	n/a	Direct access from school to the main road (clearance needed just in front of the school)	<a href="#">Map</a>
Northern Parade Junior School		Doyle Avenue	Hilsea	PO2 9NE	junior school	Northern Parade	1	100	200	Large Footway	School	Jonction	North (40m)	Jonction	Bus access	East (60m)		<a href="#">Map</a>
Northern Parade Infant School		Kipling Road	Hilsea	PO2 9NJ	infant school	Northern Parade	1	65	130		Doyle Avenue	Jonction with Northern Parade	South	n/a	n/a	n/a		<a href="#">Map</a>
Stamshaw Junior School	57	Tipner Road	Nelson	PO2 8QH	junior school	Stamshaw Road	2	55	110		n/a	n/a	North	n/a	n/a	n/a	Direct access from school to the main road (clearance needed just in front of the school)	<a href="#">Map</a>
Stamshaw Infant School	126	North End Avenue	Hilsea	PO2 8NW	infant school	Stamshaw Road	1	45	135	Large Footway	Northern End Avenue	Stamshaw Road	South (45m)	n/a	n/a	n/a		<a href="#">Map</a>
Mayfield School		Mayfield Road	Copnor	PO2 0RH		Mayfield Road	2	6	15		n/a	n/a	South	n/a	n/a	n/a	Direct access from school to the main road (clearance needed just in front of the school)	<a href="#">Map</a>
Cliffdale Primary School	107	Battenburg Avenue	Copnor	PO2 05N	primary school	Copnor Road	1	185	370		n/a	n/a	South	n/a	n/a	n/a	Direct access from school to the main road (clearance needed just in front of the school)	<a href="#">Map</a>
Gatcombe Park Primary School		St Barbara Way	Hilsea	PO2 0UR	Primary School	Copnor Road	1	212	636	Greenspace	School	Copnor Road	West (70m)	Copnor Road	Bus access	South (142m)		<a href="#">Map</a>
Admiral Lord Nelson Secondary School		Dundas Lane	Hilsea	PO2 0UR	Secondary School	Dundas Lane	1	212	636	Greenspace	School	Dundas Lane	West (70m)	Dundas Lane	Bus access	South (142m)		<a href="#">Map</a>
Harbour School		Tipner Lane	Nelson	PO2 8ID		Tipner Road	2	656	1312		Tipner Lane	Tipner Road	South	n/a	n/a	n/a		<a href="#">Map</a>
Flying Bull Primary School		Flying Bull Lane	Nelson	PO2 7BJ	primary school	Malins Road	2	115	575	Large Footway	School	Jonction	South	n/a	n/a	n/a		<a href="#">Map</a>
Manor Infant School		Inverness Road	Fratton	PO1 5QR	infant school	Kingston Road	1	82	164		School	Jonction	South	n/a	n/a	n/a		<a href="#">Map</a>
City of Portsmouth Girls School	Front of Cathedral	St Marys Road	Fratton	PO1 5PF		St Marys Road	1	12	72		n/a	n/a	North	n/a	n/a	n/a	Direct access from school to the main road (clearance needed just in front of the school)	<a href="#">Map</a>

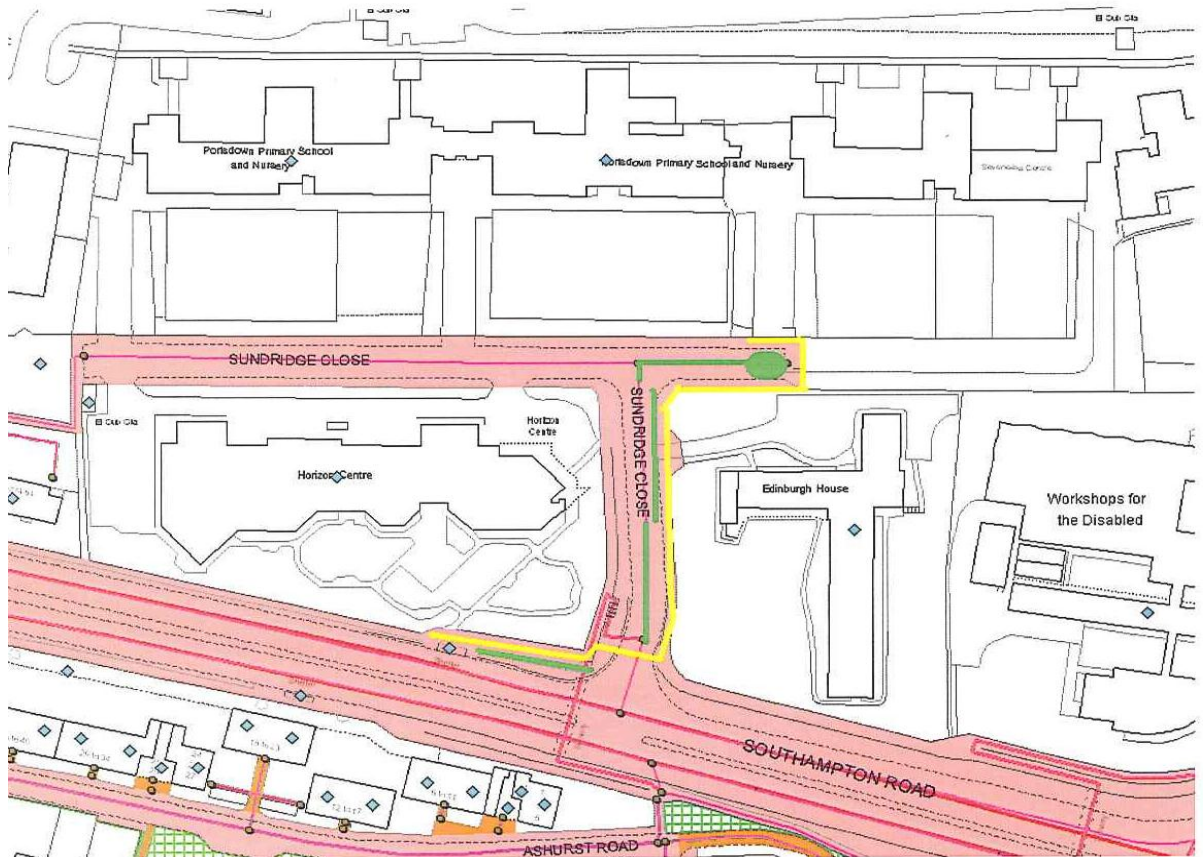
Charles Dickens Infant & Junior School	25	Turner Road	Charles Dickens	PO1 4ON	infant and junior school	Lake Road	1	150	300		School	Jonction Turner Road / Lake Road	West (112 m)	Jonction Turner Road / Lake Road	Bus access	North (48m)		<a href="#">Map</a>
Westover Primary School		Westover Road	Baffins	PO3 6NS	primary school	Tangier Road	1	167	334		School	Tangier road	East	n/a	n/a	n/a		<a href="#">Map</a>
Copnor Infant & Junior School		Copnor Road	Copnor	PO3 5BZ	infant and junior school	Copnor Road	1	160	320		n/a	n/a	East	n/a	n/a	n/a	Direct access from school to the main road (clearance needed just in front of the school)	<a href="#">Map</a>
Langstone Junior School		Lakeside Avenue	Baffins	PO3 6EZ	junior school	Hayling Avenue	2	50	100		Shool	Jonction	East	n/a	n/a	n/a		<a href="#">Map</a>
Langstone Infant School		Ascot Road	Baffins	PO3 6EY	infant school	Hayling Avenue	2	160	320		Shool	Jonction	West	n/a	n/a	n/a		<a href="#">Map</a>
Newbridge Junior School	213	New Road	Fratton	PO2 7 RW	junior school	New Road	1	55	110		n/a	n/a	South	n/a	n/a	n/a	Direct access from school to the main road (clearance needed just in front of the school)	<a href="#">Map</a>
Meredith Infant School	33	Porchester Road	Copnor	PO2 7BJ	infant school	Chichester Road	1	170	340		School	Jonction Porcheste r Road / Drayton Road	South	Jonction Porcheste r Road / Drayton Road	Jonction Drayton Road / Chichester Road	East		<a href="#">Map</a>
Isambard Brunel Junior School	17	Portchester Road	Copnor	PO2 7HX	junior school	Chichester Road	1	130	260		School	Jonction Porcheste r Road / Drayton Road	South	Jonction Porcheste r Road / Drayton Road	Jonction Drayton Road / Chichester Road	East	Near Meredith Infant School / same footway	<a href="#">Map</a>
Lyndhurst Junior School	94	Crofton Road	Copnor	PO2 0NT	junior school	Stubbington Road	1	76	152		School	Jonction Lyndhurst Road / Stubbington Road	West	n/a	n/a	n/a		<a href="#">Map</a>
College Park Infant School	116	Lyndhurst Road	Copnor	PO2 0LB	infant school	Stubbington Road	1	136	274		School	Jonction Crofton Road / Stubbington Road	West	n/a	n/a	n/a		<a href="#">Map</a>
Cumberland Infant School	163	Methuen Road	eastney	PO4 9HJ	infant school	Highland Road	1	193	328.1	End of Pedam close	n/a	n/a	n/a	n/a	n/a	n/a	Clearance needed infront of the school to the main road	<a href="#">Map</a>
Craneswater Junior School	210	St Ronan's Road	Southsea	PO4 0PX	junior school	Albert Road	1	29	63.8	in the school park	n/a	n/a	n/a	n/a	n/a	n/a	Direct access from school to the main road (clearance needed just in front of the school)	<a href="#">Map</a>
St Withuns Catholic Primary School		Taswell Road	Southsea	PO6 2RG	junior school	Clarandon Road	1	100	150	behind st simons church	n/a	n/a	n/a	n/a	n/a	n/a	Clearance needed infront of the school to the main road	<a href="#">Map</a>
Southsea Infant School	56	Napier Road	Southsea	PO5 2SR	infant school	Albert Road	1	118	236	End of Collingwood Road	n/a	n/a	n/a	n/a	n/a	n/a	Clearance needed infront of the school to the main road	<a href="#">Map</a>
Cottage Grove First School	30 Cottage Grove (Behind)	Chivers Close	Southsea	PO5 1HG	junior school	Somers Road	2	138	369	End of Chiverss Close	n/a	n/a	n/a	n/a	n/a	n/a	Clearance needed infront of the school to the main road	<a href="#">Map</a>
St Jude's C of E Primary School	15	St Nicholas Street	Southsea	PO1 2NZ	junior school	High street	1	137	319	End of Nicholas Street	n/a	n/a	n/a	n/a	n/a	n/a	Clearance needed infront of the school to the main road	<a href="#">Map</a>





The brambles Nursery	27	Bramble road	Southsea	PO4 ODT	nursery	Fawcett road	1	92	184	End of Ventnor road	Bramble road	n/a	South	n/a	n/a	n/a	Clearance needed in front of the school to the main road	<a href="#">Map</a>
Goldsmith Infant School	33	Bramble road	Southsea	PO4 ODT	infant school	Fawcett road	1	19	38	End of Ventnor road	Bramble road	n/a	South	n/a	n/a	n/a	Clearance needed in front of the school to The brambles nursery	<a href="#">Map</a>
Devonshir e Infant & Junior School	197	Francis avenue	Southsea	PO4 OA5	junior school	Francis avenue	2	45	99	Large footway in front of the school	Francis avenue	n/a	East	n/a	n/a	n/a	Clearance needed in front of the school to the main road	<a href="#">Map</a>
Fernhurst Junior School	197	Francis avenue	Southsea	PO4 OA6	junior school	Francis avenue	2	74	162.8	Large footway in front of the school	Francis avenue	n/a	East	n/a	n/a	n/a	Clearance needed in front of the school to Devonshire junior school	<a href="#">Map</a>
Wimborne Infant School		Wimbour ne Road	Southsea	PO4 8DE	infant school	Winter road	2	54	129.6	Large footway in front of the school	Evans road	n/a	North	n/a	n/a	n/a	Clearance needed in front of the school to the main road	<a href="#">Map</a>
Wimborne Junior School		Wimbour ne Road	Southsea	PO4 8DE	junior school	Winter road	2	74	177.6	Large footway in front of the school	Evans road	n/a	North	n/a	n/a	n/a	Clearance needed in front of the school to Wimborne infant school	<a href="#">Map</a>
Milton Park Schools	2	Dunbar road	Southsea	PO4 8ET	infant & Junior school	Eastney road	1	40	80	junction Essex road/Eastney Road	Dunbar road	n/a	North	n/a	n/a	n/a	Clearance needed in front of the school to the main road	<a href="#">Map</a>
meon junior school	54	Meon Road	Southsea	PO4 8NW	junior school	Locksway Road	2	20	40	in the alley in front of the number 2	shelford road	n/a	west	n/a	n/a	n/a	Clearance needed in front of the school to the meon infant school	<a href="#">Map</a>
meon infant school	46	Shelford road	Southsea	PO4 8NT	infant school	Locksway Road	2	143	286	in the alley in front of the number 2	shelford road	n/a	west	n/a	n/a	n/a	Clearance needed in front of the school to the main road	<a href="#">Map</a>
Waterside School			Tipner			Locksway Road					n/a	n/a	n/a	n/a	n/a	n/a	No Waterside School	<a href="#">Map</a>
Moorings Way School	102	Moorings Way	milton	PO4 8YJ	infant school	Goldsmith avenue	2	92	184	in front of the school in the grass	goldsmith avenue	Junction Moorings Way/Gold smith avenue	south	n/a	n/a	n/a	Direct access from school to the main road (clearance needed just in front of the school)	<a href="#">Map</a>
Milton Cross	3	james road	Milton	PO3 6RB	Secondary School	Milton Road	1	75	150	in the school parking	james road	Junction james road/Milto n Road	south east	n/a	n/a	n/a	Clearance needed in front of the school to the main road	<a href="#">Map</a>
Penhale infant school	51	Penhale road	Fratten	PO1 5EF	infant school	Fratton road	1	191	373	in front of the school on the parking spaces	Penhale road	Junction Penhale road/Fratt on road	south				Clearance needed in front of the school to the main road	<a href="#">Map</a>
St John's Cathedral Catholic Primary School	2	cottage view	landport	PO1 1PX	junior school	arundel street	1	22.2	64.38	graas of car park	arundel road	Junction cottage view/arund el street	east				Clearance needed in front of the school to the main road	<a href="#">Map</a>
Somers Park Primary School	15	Somers Road	Southsea	PO5 4LS	infant school	isambard brunel road	1	91.3	200.86	at the end of Hyde Park road	Isambard brunel road	Junction Somers Road/isa mbard brunel road	noth west				Clearance needed in front of the school to the main road	<a href="#">Map</a>
Priory school	21	Fawcett road	southsea	PO4 0DL	infant school	focett road	1	136	544	on the lage footway in front of the school	focett road	Junction Fawcett road/focett road	west				Direct access from school to the main road (clearance needed just in front of the school)	<a href="#">Map</a>



# Portsmouth Primary School



-  Footway to be cleared
-  Location of snow pile

# Appendix E1

## School Crossing Patrol Sites

School	Site
Admiral Lord Nelson	Anchorage Road
Arundel Court Infant & Junior	Arundel Street / Fyning Street
Charles Dickens Infant	Sultan Road / Malins Road
Charles Dickens Infant	Turner Road / Wingfield Road
Charles Dickens Infant	Turner Road / Watts Road
City Boys	London Road Hilsea
City Boys	London Road Hilsea
City Girls	St Mary's Road
City Girls	St Mary's Road
City Girls	St Mary's Road
College Park Infant & Junior	Lyndhurst Road / Stubbington Avenue
College Park Infant & Junior	Lyndhurst Road / Kirby Road
College Park Infant & Junior	Lyndhurst Road / Kirby Road
College Park Infant & Junior	Mayfield Road / Randolph Road
College Park Infant & Junior	Crofton Road
Copnor Infant & Junior	Copnor Road / Wallington Road
Copnor Infant & Junior	Copnor Road / Burrfields Road
Corpus Christi	Gladys Avenue / Connaught Road
Corpus Christi	North End Junction
Cottage Grove Primary	Green Road / Cottage Grove
Cottage Grove Primary	Green Road / Somers Road
Cottage Grove Primary	Eldon Street
Court Lane Infant & Junior	Court Lane / Lonsdale Avenue
Court Lane Infant & Junior	Central Road / Lower Drayton Lane
Court Lane Infant & Junior	Tregaron Avenue / Dysart Avenue
Court Lane Infant & Junior	Salisbury Road / Magdala Road
Court Lane Infant & Junior	Court Lane / Hilary Avenue
Court Lane Infant & Junior	Court Lane / Hilary Avenue
Craneswater Junior	St Ronans Road
Craneswater Junior	Albert Road / St Ronans Road
Craneswater Junior	Festing Road / Highland Road
Craneswater Junior	Festing Road / Highland Road
Craneswater Junior	Highland Road / Winter Road
Devonshire Infant & Fernhurst Junior	Francis Avenue / Jessie Road
Devonshire Infant & Fernhurst Junior	Francis Avenue / Jessie Road
Devonshire Infant & Fernhurst Junior	Heidleburg Road / Devonshire Square
Devonshire Infant & Fernhurst Junior	Jubilee Road / Devonshire Square
Devonshire Infant & Fernhurst Junior	Jubilee Road / Devonshire Square
Flying Bull Primary	Malins Road
Gatcombe Park Primary	Copnor Road / Old London Road
Gatcombe Park Primary	St Barbara Way / Copnor Road
Goldsmith Infant School	Bramble Road / Fawcett Road
Goldsmith Infant School	Jessie Road / Fawcett Road

School	Site
Goldsmith Infant School	Jessie Road / Talbot Road
Highbury Primary	Highbury Grove / Dovercourt Road
Highbury Primary	Chatsworth Avenue / Dovercourt Road
King Richard	Allaway Avenue
Langstone Infant	Milton Road / St Mary's Road
Langstone Infant	Milton Road / St Mary's Road
Langstone Infant	Milton Road / Baffins Road
Langstone Infant	Milton Road / Baffins Road
Langstone Junior	Lakeside Avenue / Hayling Avenue
Manor Infant	George Street / Ernest Road
Manor Infant	Inverness Road / New Road
Medina Primary	Medina Road / Sixth Avenue
Meon Infant	Hollam Road / Meon Road
Meon Infant	Shelford Road / Meon Road
Meon Infant	Locksway Road / Shelford Road
Meon Junior	Crofton Road / Meon Road
Meon Junior	Euston Road / Warren Avenue
Meredith Infant	Drayton Road / Chichester Road
Meredith Infant	Drayton Road / Powerscourt Road
Meredith Infant	Chichester Road / Farlington Road
Milton Cross	Velder Avenue
Milton Park Primary	Eastney Road / Dunbar Road
Milton Park Primary	Dunbar Road
Moorings Way Infant	Moorings Way / Warren Avenue
Newbridge Junior	New Road / Aylesbury Road
Newbridge Junior	George Street
Newbridge Junior	George Street / Shearer Road
Newbridge Junior	Shearer Road / Hampshire Street
Northern Parade Junior	Kipling Road / London Road
Northern Parade Junior	Kipling Road / London Road
Northern Parade Infant & Junior	Doyle Avenue
Paulsgrove Primary	Allaway Avenue / Walford Road
Paulsgrove Primary	Allaway Avenue / Marsden Road
Penhale Infant	Penhale Road / Guildford Road
Portsdown Primary	Southampton Road
Portsdown Primary	Southampton Road
Portsdown Primary	Sevenoaks Road / Hythe Road
Priory	Fawcett Road
Saxon Shore Infant	Jubilee Avenue / Connaught Lane
Saxon Shore Infant	Jubilee Avenue / Portsdown Road
Solent Infant & Junior	Solent Road / Farlington Avenue
Solent Infant & Junior	Havant Road / Galt Road
Solent Infant & Junior	Havant Road / Station Road
Somers Park Primary	Somers Road / Blackfriars Road
Southsea Infants	Albert Road Traffic Lights
Southsea Infants	Albert Road Traffic Lights
Southsea Infants	Albert Road / Napier road
St George's Primary	Queen Street / Cross Street



School	Site
St John's Primary	Arundel Street / St Johns Road
St Jude's Primary	Pembroke Road
St Jude's Primary	St Georges Road / High Street
St Jude's Primary	High Street
St Paul's Primary	Allaway Avenue / Bourne Road
St Swithin's	Clarendon Road / St simon's Road
Stamshaw Infant	London Avenue / Stamshaw Road
Stamshaw Infant	Stamshaw Road / Wilson Road
Stamshaw Infant	Gladys Avenue / North End Avenue
Stamshaw Junior	Walden Road / Walker Road
Stamshaw Junior	Tipner Road /
Westover Infant	Westover Road / Tangier Road
Westover Infant	Westover Road / Tangier Road
Westover Infant	Neville Road / Tangier road
Westover Infant	Westover Road
Westover Infant	Westover Road / Cobden Avenue
Wimborne Infant & Junior	Goldsmith Avenue / Winter Road
Wimborne Infant & Junior	Wimborne Road / Winter Road
Wimborne Infant & Junior	Devonshire Avenue / Winter Road
Wimborne Infant & Junior	Devonshire Avenue / Prince Albert Road

# Appendix E2

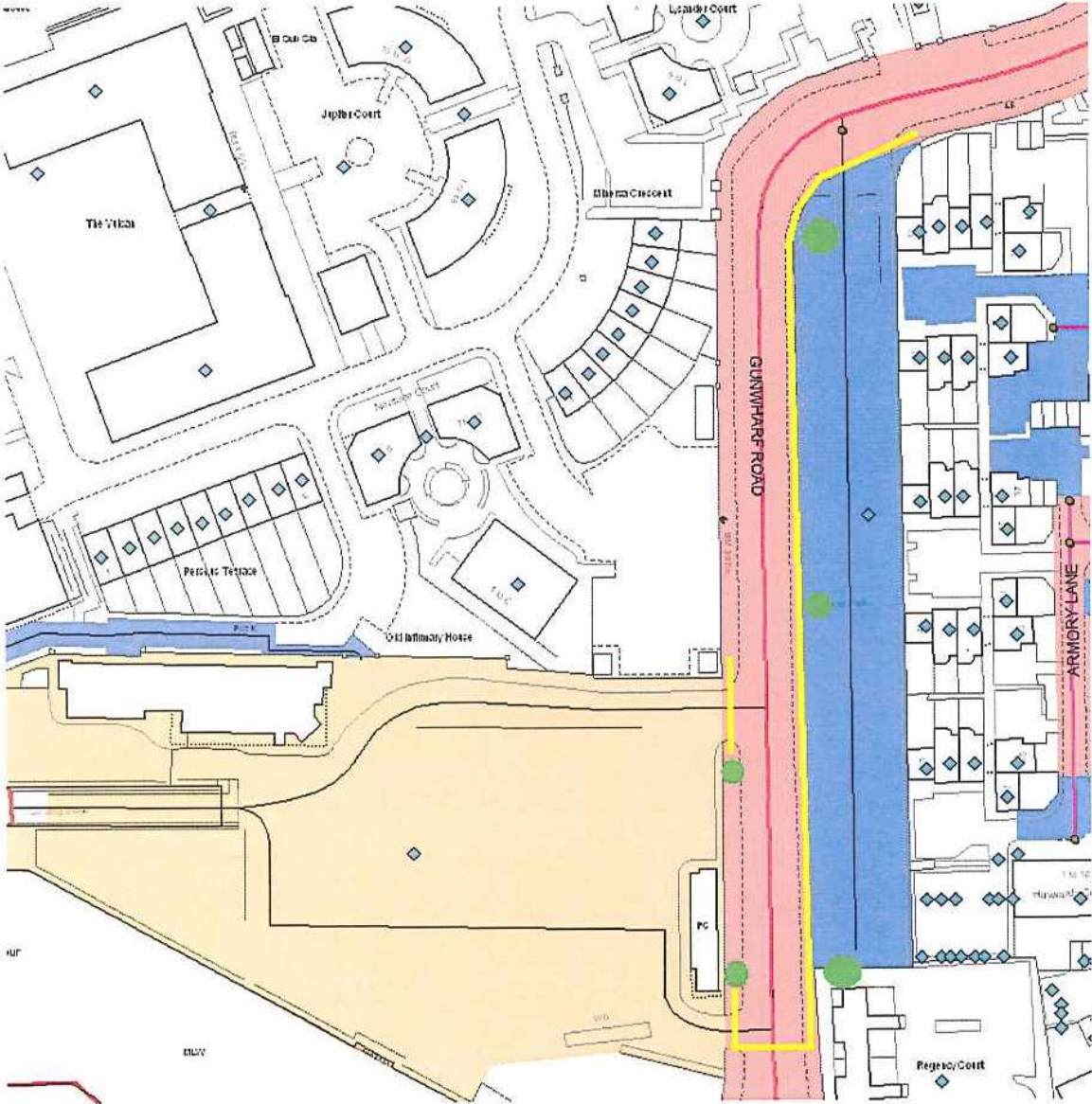
## Detailed identification of FW leading to Transport Hubs



Please note that for each Transport hub identified below, Colas hold electronically a detailed map describing location of the FW to be treated and recommended snow pile locations.

Category	Name	Address / Location	Street	District	Postcode	Use	Closest CW treated		Distance from main road to gate (fm)	Total area (sqm) to treat	Snow storage location	Description of path to clear						Comments	Map
							Road	Category				From junction between			From junction between				
												Road	Road	Side	Road	Road	Side		
Ferry terminal	Hayling Island		Ferry Road	Eastney and Craneswater	PO9 4LT	Ferry Port	Ferry Road	2	173	519	Greenspace							No footway	<a href="#">Map</a>
	Hovercraft Terminal		Clarence Esplanade	Southsea	PO5 3AD	Ferry Port	Clarence Esplanade	1	276	828									<a href="#">Map</a>
	Gunwharf Ferry Port		Gunwharf Road	St Thomas		Ferry Port	Gunwharf Road	1	240	480	Space on the car park		Entrance and Exit of ferry port	West ( 30m)		Footway in front of car park	East ( 210 m)		<a href="#">Map</a>
	Continental ferry port footway	around the peninsular house	Wharf road	Newport		Footway	Mile end road	1	198	653.4	on the footway behind the house	Wharf road		N/A				clearance needed only on their footway	<a href="#">Map</a>
	Continental ferry port footway	font of lok'nStore	Wharf road	Newport		Footway	Wharf road	1	136.1	272.2	in the grass in front of the lok'nStore	Wharf road		west				clearance needed only on their footway	<a href="#">Map</a>
	Continental ferry port footway	front of the car park	Wharf road	Newport		Footway	Wharf road	1	165.4	297.72	next to the welcoming sign & yellow barrier	Wharf road		south				clearance needed only on their footway	<a href="#">Map</a>
	Continental ferry port footway	small footway on the road	Wharf road	Newport		Footway	Wharf road	1	39	39	next to the welcoming sign & yellow barrier	Wharf road		west				clearance needed only on their footway	<a href="#">Map</a>
Bus Terminal	Gunwharf Bus Station		The Hard	Charles Dickens	PO1 3PA	Bus Terminal	The Hard	1	650	975	Espace near the entrance of train station / End of bus platform		Bus Station	250 m		Taxi area	320 m		<a href="#">Map</a>
	Cosham bus park	1	walton road	cosham	po6 1	Bus parking	walton road	2	160.8	297.48	on the car park	walton road		south	walton road		east	clearance needed in front of the bus parking	<a href="#">Map</a>
	Cosham bus station 1	1	northen road	cosham		bus station	northen road	1	52.5	157.5	on the footway	northen road		east				clearance needed in front of the bus station to zebra crossing	<a href="#">Map</a>
	Cosham bus station 2	1	northen road	cosham		bus station	northen road	1	39.9	159.6	on the footway	northen road		west				clearance needed in front of the bus station to zebra crossing	<a href="#">Map</a>
	London road bus station footway	in front of westerly services	London road	cosham		bus station	london road	1	193.1	849.64	behind the bus station, in the grass	London road		west				clearance needed in front of the bus station	<a href="#">Map</a>
	London road bus station quav	front of westerly services	London road	cosham		bus station	london road	1	92.3	387.66	behind the bus station, in the grass	London road		east				clearance needed in front of the bus station	<a href="#">Map</a>
Train Station	The Hard interchange		The Hard	Charles Dickens	PO1 3PA	Train Station	The Hard	1	190	285	Espace near the entrance of train station							same area than Gunwharf Bus Station	<a href="#">Map</a>
	Southsea Train Station		Station Street	Charles Dickens	PO1 1EQ	Train Station	Station Street	1	506	1448	Greenspace / junction with Station Street and Commercial Road								<a href="#">Map</a>
	Fratton Train Station		Selbourne Terrace	Fratton	PO1 1EP	Train Station	Goldsmith Avenue	1	42	126								Bridge / junction possible with Fratton Road ( 166 m * 1.5)	<a href="#">Map</a>
	Cosham Train Station		High Street	Cosham	PO6 3BD	Train Station	High Street	1	110	165	Greenspace / a lot of place in front of the pavement								<a href="#">Map</a>
	hillsea station		airport service road	hillsea		platform length	airport service road	1	164	360.8	end of platform length			west				clearance needed on all the lengths	<a href="#">Map</a>
	hillsea station		airport service road	hillsea		platform length	airport service road	1	164	360.8	end of platform length			east				clearance needed on all the lengths	<a href="#">Map</a>
	hillsea station		airport service road	hillsea		footway bridge	airport service road	1	23.7	40.29	Corner of the bridge			n/a				clearance needed all of the bridge	<a href="#">Map</a>
	hillsea station		airport service road	hillsea		access area	airport service road	1	13.2	172.92	On the grass			n/a				clearance of all of the area	<a href="#">Map</a>
	hillsea station		airport service road	hillsea		footway to carpark	airport service road	1	66.9	113.73	on the grass			west				clearance needed from station to carpark footpath	<a href="#">Map</a>

\* See example of map detail attached

# Gunwharf Ferry Terminal



-  Footway to be cleared
-  Location of snow pile

# Appendix E3

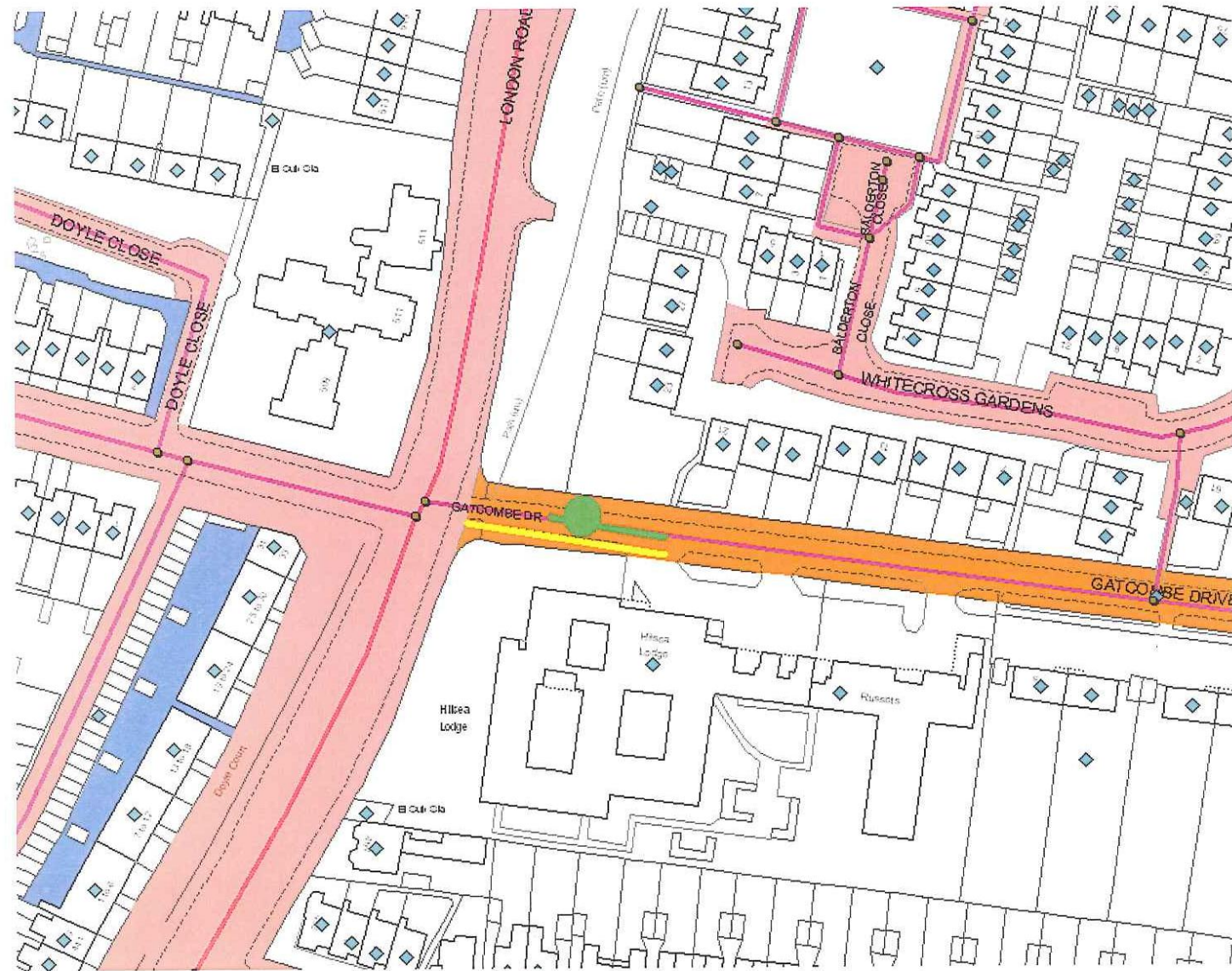
## Detailed identification of FW leading to PCC managed Residential Homes



Please note that for each Residential Home identified below, Colas hold electronically a detailed map describing location of the FW to be treated and recommended snow pile locations.

Name	Address / Location	Street	District	Postcode	Use	Closest CW treated		Distance from main road to gate (m)	Total area (sqm) to treat	Snow storage location	Description of path to clear						Comments	Map
						Road	Category				From junction between			From junction between				
											Road	Road	Side	Road	Road	Side		
Edinburgh House		Sundridge Close	Cosham	PO6 3JL		Southampton Road	1	102	204									<a href="#">Map</a>
Longdean Lodge And Day Centre	Junction Hillsley Road/ Beverston Road	Hillsley Road	Paulsgrove	PO6 4NH		Hillsley Road	1	60	120	Junction Hillsley Road/ Beverston Road	Longdean Lodge And Day Centre	Bus access	North ( 30m)	Longdean Lodge And Day Centre	Bus access	South ( 30m)		<a href="#">Map</a>
Hilsea Lodge		Gatcombe Drive	Hilsea	PO2 0TX		London Road	1	45	135	Greenspace	London Road	Gatcombe	East					<a href="#">Map</a>
Brunel Court		Nuffield Place	Charles Dickens	PO1 4JB		Lake Road	1	103	206		Nuffield Place	Clarendon Street	North ( 27m)	Clarendon Street	Lake Road	East (76m)		<a href="#">Map</a>
Corben Lodge	(next door Shearwater)	Moorings Way	Milton	PO4 8QW		Moorings Way	2	0	0									
Shearwater new building Crane Court & Osprey Court		Moorings Way	Milton	PO4 8QW		Moorings Way	2	0	0									
Russets		Gatcombe Drive	Hilsea	PO2 0TX		London Road	1	95	190	Greenspace	London Road	Gatcombe	West					
Brent Court		Warren Avenue	Southsea	PO4 8QQ		Velder Road	1	125	250		Velder	Avocet Close	North					



# Hilsea Lodge Residential Home



-  Footway to be cleared
-  Location of snow pile



# Appendix F

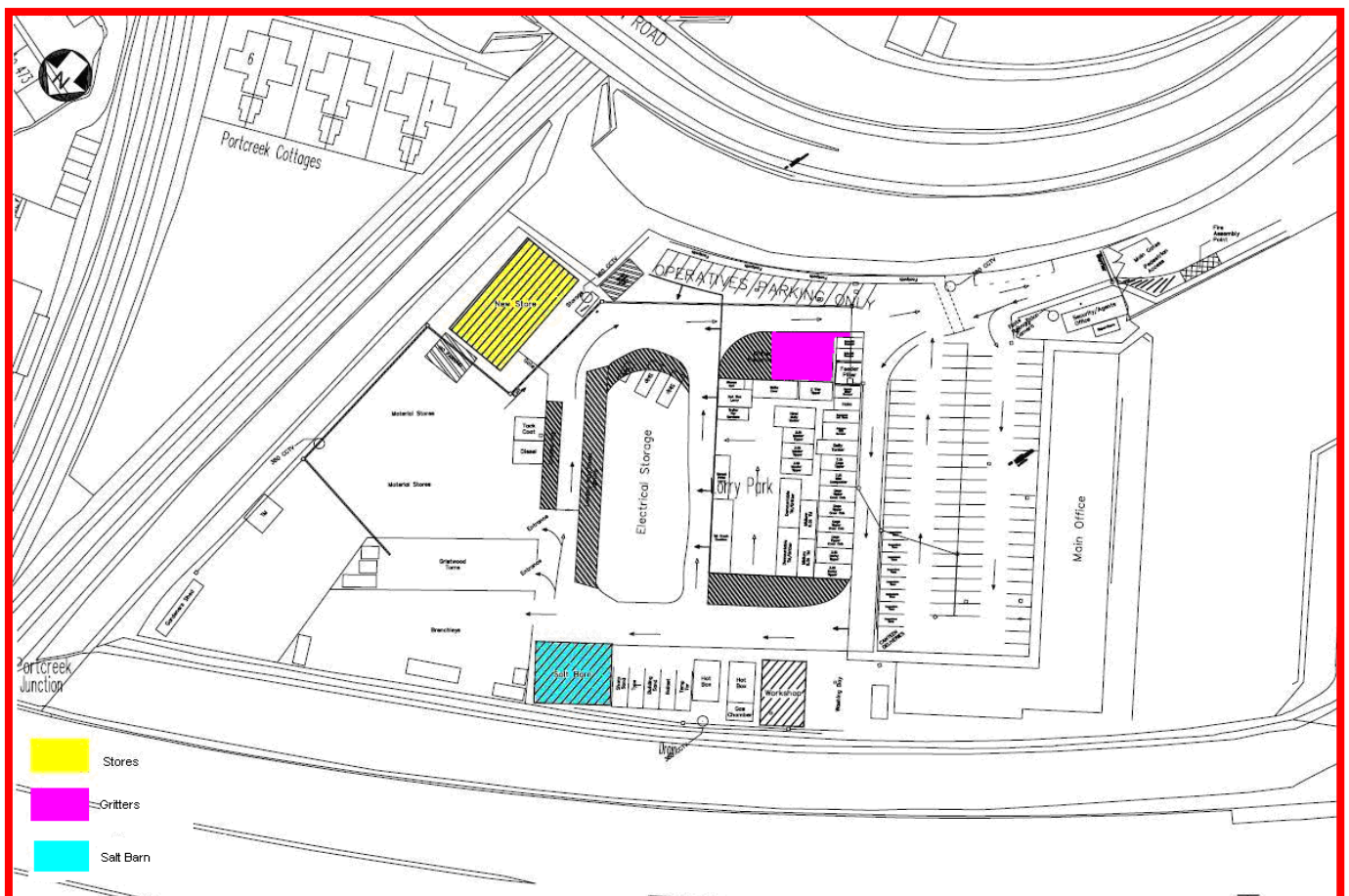
## Equipment, store and salt barn location

All winter operations are directed and carried out from Colas depot located at Walton Road Farlington, Portsmouth PO61TA.

The rock salt is stored in a purpose built salt barn. The salt barn has a capacity of 850t that is to say 200t over the stock level recommended by the UK Road Liaison Group (July 2009) (stock necessary to treat the equivalent of 6 runs during 6 days on the priority network).

An additional storage capacity of 120t, in a non covered storage bay, is available next to the salt barn to store an emergency reserve stock of salt or grit.

The following map identify the location where the gritters are stationed, the salt barn and reserve storage bay, as well as the storage building where the winter maintenance minimum resilience stock of shovels and brooms is kept.



**Salt barn**  
**Storage capacity 850t**



**Storing bay (emergency use only)**  
**Storage capacity 120t**



# Appendix G

## Winter Maintenance Preparation Plan

<b>TO BE COMPLETED BY</b>	<b>TASK</b>	<b>REQUIRED LIAISON</b>	<b>ACTION BY</b>
April	Start Wash-Up meetings (if necessary)		Colas / PCC Contracts Managers
June	Renewal of Weather Forecast contract if appropriate		Colas Commercial
July	Start revision of Winter Maintenance Operational Plan		Colas / PCC Contracts Managers
Early September	Issue revised Winter Maintenance Operational Plan		Contract Manager
Late September	Winter Maintenance Exercise/Communications Trial		Colas Winter staff
Early October	Winter Maintenance Briefing		Colas personnel involved in Winter Duties

# Appendix H

## Reference documents

- 1 Code of Practice for Maintenance Management
- 2 ICE Design and Practice Guide for Highway Winter Maintenance
- 3 Emergency Services Plans
- 4 Trunk Road Maintenance Manual
- 5 PCC Flood response Plan
- 6 The Resilience of England's Transport Systems in Winter (independent review interim report Dec 2010)
- 7 Colas Incident Management Plan
- 8 PCC Traffic Management Plan



# Appendix I

## Vehicles and Plant Schedules

The length of the routes covering the category 1 and 2 networks requires 3 vehicles to enable a response within a 2 hours period.

Colas fleet of gritters is composed of 4 vehicles (which includes a vehicle on standby as contingency to mitigate the risk of mechanical breakdown). All are Econ Engineering Bodies. Copies of the current vehicle calibration certificates are available on request.

3 of these vehicles are multipurpose vehicles which are dedicated to gritting during the winter season. All 4 vehicles are fitted with GPS CYBIT tracking units which are connected to the ECON download units. This records the following information when vehicle are used as gritters:

- Vehicle Location and time
- Spreading on/off
- Salt Flow on/off
- Spread Rate
- Width of spread

The 4 vehicles are as follow:

### 1) 1 Dedicated Gritter Lorry: Reg 1RX55 UTO UNI-BODY



**2) 1 Multi Purpose Vehicle: Reg RX55 UTM DEMOUNT (Converts to a tipper)**



**3) 2 Multi Purpose Vehicles: Reg KE06 AYC and Reg KE06 AYD UNIBODIES (convert into Traffic Management Vehicle)**



#### 4) Gritter Bodies and Equipments



**3X Gritting bodies**



**4 X Snow Ploughs**



## Footway Gritting and Snow Clearance:

### 1) Cruiser Turbocast 300 Grit Spreader:

Cruiser Turbocast 300 Grit Spreader broadcast spreads dry or wet grit/salt mixture to a width of between 3 and 7m. It is user friendly with front and back rests which make it easy to manoeuvre up and down kerbs. The front rest allows the unit to be emptied wheelbarrow fashion after use and the chassis has a special Armortec coating for corrosion-resistance. A range of settings allows accurate controlled dosing ensuring economic spreading. The gritter can be disengaged for transportation between sites without losing any material.



### 2) Pedestrian 2 Wheel Tractor Unit:



# Appendix J

## Winter Maintenance Exercise Checklist

Winter Maintenance Exercise

Date: 2.10.13

Lorry No.	Routes	Lorry & Driver Available	Spreading Insert Operational	Plough Fitted & Operational	Plans & Schedules Available	Comments
1 RXSS WTO	8,9,10,11,1 2,17,20,22 23,25.	✓	✓	✓	✓	Miss updates required
2 KED WTO	2,3,4,13,14 15,16	✓	✓	✓	✓	"
3 RXSS WTH	1,5,6,7,18,1 9,21,24.	✓	✓	✓	✓	"
4 KOE BYC	Stones	✓	✓	✓	N/A	

5 Drivers on site

- Supervision present in depot. YES ~~NO~~
- Loading facility available in depot YES ~~NO~~
- Client Officer present YES ~~NO~~

Checks completed by:

Colas: R. Huscott (Signature)

R. Huscott (Print Name)

Client: [Signature] (Signature)

Time Time (Print Name)

2 10-13



## Appendix K

### 2013/14 Gritting Standby Rota

Week Commencing	Driver	Driver	Driver	Fitter
<b>Friday</b>				* See end for Standby Fitter
27 September	D Cale 07917 350954	T West 07917 350983	T White 07917 350937	07917 350918
4 October	M Turner 07748 102427	P Farmer 07716 416590	T Ward 07917 350952	07917 350918
11 October	D Cale 07917 350954	T West 07917 350983	T White 07917 350937	07917 350918
18 October	M Turner 07748 102427	P Farmer 07716 416590	T Ward 07917 350952	07917 350918
25 October	D Cale 07917 350954	T West 07917 350983	T White 07917 350937	07917 350918
1 November	M Turner 07748 102427	P Farmer 07716 416590	T Ward 07917 350952	07917 350918
8 November	D Cale 07917 350954	T West 07917 350983	T White 07917 350937	07917 350918
15 November	M Turner 07748 102427	P Farmer 07716 416590	T Ward 07917 350952	07917 350918
22 November	D Cale 07917 350954	T West 07917 350983	T White 07917 350937	07917 350918
29 November	M Turner 07748 102427	P Farmer 07716 416590	T Ward 07917 350952	07917 350918
6 December	D Cale 07917 350954	T West 07917 350983	T White 07917 350937	07917 350918
13 December	M Turner 07748 102427	P Farmer 07716 416590	T Ward 07917 350952	07917 350918
20 December <b>Christmas 2013</b>	D Cale 07917 350954	T West 07917 350983	T White 07917 350937	07917 350918
27 December <b>New Year 2014</b>	M Turner 07748 102427	P Farmer 07716 416590	T Ward 07917 350952	07917 350918
3 January	D Cale 07917 350954	T West 07917 350983	T White 07917 350937	07917 350918
10 January	M Turner 07748 102427	P Farmer 07716 416590	T Ward 07917 350952	07917 350918
17 January	D Cale 07917 350954	T West 07917 350983	T White 07917 350937	07917 350918
24 January	M Turner 07748 102427	P Farmer 07716 416590	T Ward 07917 350952	07917 350918
31 January	D Cale 07917 350954	T West 07917 350983	T White 07917 350937	07917 350918
7 February	M Turner 07748 102427	P Farmer 07716 416590	T Ward 07917 350952	07917 350918
14 February	D Cale 07917 350954	T West 07917 350983	T White 07917 350937	07917 350918
21 February	M Turner 07748 102427	P Farmer 07716 416590	T Ward 07917 350952	07917 350918
28 February	D Cale 07917 350954	T West 07917 350983	T White 07917 350937	07917 350918
7 March	M Turner 07748 102427	P Farmer 07716 416590	T Ward 07917 350952	07917 350918

14 March	D Cale 07917 350954	T West 07917 350983	T White 07917 350937	07917 350918
21 March	M Turner 07748 102427	P Farmer 07716 416590	T Ward 07917 350952	07917 350918
28 March	D Cale 07917 350954	T West 07917 350983	T White 07917 350937	07917 350918
4 April	M Turner 07748 102427	P Farmer 07716 416590	T Ward 07917 350952	07917 350918
11 April	D Cale 07917 350954	T West 07917 350983	T White 07917 350937	07917 350918
18 April	M Turner 07748 102427	P Farmer 07716 416590	T Ward 07917 350952	07917 350918
25 April (6 day only)	D Cale 07917 350954	T West 07917 350983	T White 07917 350937	07917 350918

\* Standby Fitter Number 07771 813524 (Sussex standby)

## Appendix K1 – Winter Maintenance Duty Officer Rota

**Dedicated Mobile No - 07717 665912** (if no response use the individual mobile numbers listed below)

### October 2013

Day	Date	Duty Officer	Title	Mobile No
Tuesday	1	Andy McDuff	Utilities Engineer	07917350921
Wednesday	2	Gordon McGinn	NRSA Programmer	07785612931
Thursday	3	Paul Christy	Contract Supervisor	07717502518
Friday	4	Fred Willett	Network Co-ordinator	07917350920
Saturday	5	Martin Thompson	Senior Utilities Inspector	07917350923
Sunday	6			
Monday	7	Andy McDuff	Utilities Engineer	07917350921
Tuesday	8	Gordon McGinn	NRSA Programmer	07785612931
Wednesday	9	Fred Willett	Network Co-ordinator	07917350920
Thursday	10	Martin Thompson	Senior Utilities Inspector	07917350923
Friday	11	Paul Christy	Contract Supervisor	07717502518
Saturday	12	Andy McDuff	Utilities Engineer	07917350921
Sunday	13			
Monday	14	Gordon McGinn	NRSA Programmer	07785612931
Tuesday	15	Fred Willett	Network Co-ordinator	07917350920
Wednesday	16	Paul Christy	Contract Supervisor	07717502518
Thursday	17	Andy McDuff	Utilities Engineer	07917350921
Friday	18	Martin Thompson	Senior Utilities Inspector	07917350923
Saturday	19	Gordon McGinn	NRSA Programmer	07785612931
Sunday	20			
Monday	21	Fred Willett	Network Co-ordinator	07917350920
Tuesday	22	Paul Christy	Contract Supervisor	07717502518
Wednesday	23	Martin Thompson	Senior Utilities Inspector	07917350923
Thursday	24	Gordon McGinn	NRSA Programmer	07785612931
Friday	25	Andy McDuff	Utilities Engineer	07917350921
Saturday	26	Fred Willett	Network Co-ordinator	07917350920
Sunday	27			
Monday	28	Paul Christy	Contract Supervisor	07717502518
Tuesday	29	Martin Thompson	Senior Utilities Inspector	07917350923
Wednesday	30	Andy McDuff	Utilities Engineer	07917350921
Thursday	31	Fred Willett	Network Co-ordinator	07917350920

### November 2013

Day	Date	Duty Officer	Title	Mobile No
Friday	1	Gordon McGinn	NRSA Programmer	07785612931
Saturday	2	Paul Christy	Contract Supervisor	07717502518
Sunday	3			
Monday	4	Martin Thompson	Senior Utilities Inspector	07917350923
Tuesday	5	Andy McDuff	Utilities Engineer	07917350921
Wednesday	6	Gordon McGinn	NRSA Programmer	07785612931
Thursday	7	Paul Christy	Contract Supervisor	07717502518
Friday	8	Fred Willett	Network Co-ordinator	07917350920
Saturday	9	Martin Thompson	Senior Utilities Inspector	07917350923
Sunday	10			
Monday	11	Andy McDuff	Utilities Engineer	07917350921
Tuesday	12	Gordon McGinn	NRSA Programmer	07785612931
Wednesday	13	Fred Willett	Network Co-ordinator	07917350920
Thursday	14	Martin Thompson	Senior Utilities Inspector	07917350923
Friday	15	Paul Christy	Contract Supervisor	07717502518
Saturday	16	Andy McDuff	Utilities Engineer	07917350921
Sunday	17			
Monday	18	Gordon McGinn	NRSA Programmer	07785612931
Tuesday	19	Fred Willett	Network Co-ordinator	07917350920
Wednesday	20	Paul Christy	Contract Supervisor	07717502518
Thursday	21	Andy McDuff	Utilities Engineer	07917350921
Friday	22	Martin Thompson	Senior Utilities Inspector	07917350923
Saturday	23	Gordon McGinn	NRSA Programmer	07785612931
Sunday	24			
Monday	25	Fred Willett	Network Co-ordinator	07917350920
Tuesday	26	Paul Christy	Contract Supervisor	07717502518
Wednesday	27	Martin Thompson	Senior Utilities Inspector	07917350923
Thursday	28	Gordon McGinn	NRSA Programmer	07785612931
Friday	29	Andy McDuff	Utilities Engineer	07917350921
Saturday	30	Fred Willett	Network Co-ordinator	07917350920

## Appendix K1 – Winter Maintenance Duty Officer Rota

**Dedicated Mobile No - 07717 665912** (if no response use the individual mobile numbers listed below)

### December 2013

Day	Date	Duty Officer	Title	Mobile No
Sunday	1	Fred Willett	Senior Utilities Inspector	07917350920
Monday	2	Paul Christy	Site Agent	07717502518
Tuesday	3	Martin Thompson	Senior Utilities Inspector	07917350923
Wednesday	4	Andy McDuff	Utilities Engineer	07917350921
Thursday	5	Fred Willett	Network Co-ordinator	07917350920
Friday	6	Gordon McGinn	NRSA Programmer	07785612931
Saturday	7	Paul Christy	Site Agent	07717502518
Sunday	8			
Monday	9	Martin Thompson	Senior Utilities Inspector	07917350923
Tuesday	10	Andy McDuff	Utilities Engineer	07917350921
Wednesday	11	Gordon McGinn	NRSA Programmer	07785612931
Thursday	12	Paul Christy	Contract Supervisor	07717502518
Friday	13	Fred Willett	Network Co-ordinator	07917350920
Saturday	14	Martin Thompson	Senior Utilities Inspector	07917350923
Sunday	15			
Monday	16	Andy McDuff	Utilities Engineer	07917350921
Tuesday	17	Gordon McGinn	NRSA Programmer	07785612931
Wednesday	18	Fred Willett	Network Co-ordinator	07917350920
Thursday	19	Martin Thompson	Senior Utilities Inspector	07917350923
Friday	20	Paul Christy	Contract Supervisor	07717502518
Saturday	21	Andy McDuff	Utilities Engineer	07917350921
Sunday	22			
Monday	23	Gordon McGinn	NRSA Programmer	07785612931
Tuesday	24	Fred Willett	Network Co-ordinator	07917350920
Wednesday	25	Paul Christy	Contract Supervisor	07717502518
Thursday	26	Andy McDuff	Utilities Engineer	07917350921
Friday	27	Martin Thompson	Senior Utilities Inspector	07917350923
Saturday	28	Gordon McGinn	NRSA Programmer	07785612931
Sunday	29			
Monday	30	Fred Willett	Network Co-ordinator	07917350920
Tuesday	31	Paul Christy	Contract Supervisor	07717502518

### January 2014

Day	Date	Duty Officer	Title	Mobile No
Wednesday	1	Martin Thompson	Senior Utilities Inspector	07919350923
Thursday	2	Gordon McGinn	NRSA Programmer	07785612931
Friday	3	Andy McDuff	Utilities Engineer	07917350921
Saturday	4	Fred Willett	Network Co-ordinator	07917350920
Sunday	5			
Monday	6	Paul Christy	Contract Supervisor	07717502518
Tuesday	7	Martin Thompson	Senior Utilities Inspector	07917350923
Wednesday	8	Andy McDuff	Utilities Engineer	07917350921
Thursday	9	Fred Willett	Network Co-ordinator	07917350920
Friday	10	Gordon McGinn	NRSA Programmer	07785612931
Saturday	11	Paul Christy	Contract Supervisor	07717502518
Sunday	12			
Monday	13	Martin Thompson	Senior Utilities Inspector	07917350923
Tuesday	14	Andy McDuff	Utilities Engineer	07917350921
Wednesday	15	Gordon McGinn	NRSA Programmer	07785612931
Thursday	16	Paul Christy	Contract Supervisor	07717502518
Friday	17	Fred Willett	Network Co-ordinator	07917350920
Saturday	18	Martin Thompson	Senior Utilities Inspector	07917350923
Sunday	19			
Monday	20	Andy McDuff	Utilities Engineer	07917350921
Tuesday	21	Gordon McGinn	NRSA Programmer	07785612931
Wednesday	22	Fred Willett	Network Co-ordinator	07917350920
Thursday	23	Martin Thompson	Senior Utilities Inspector	07917350923
Friday	24	Paul Christy	Contract Supervisor	07717502518
Saturday	25	Andy McDuff	Utilities Engineer	07917350921
Sunday	26			
Monday	27	Gordon McGinn	NRSA Programmer	07785612931
Tuesday	28	Fred Willett	Network Co-ordinator	07917350920
Wednesday	29	Paul Christy	Contract Supervisor	07717502518
Thursday	30	Andy McDuff	Utilities Engineer	07917350921
Friday	31	Martin Thompson	Senior Utilities Inspector	07917350923



## Appendix K1 – Winter Maintenance Duty Officer Rota

**Dedicated Mobile No - 07717 665912** (if no response use the individual mobile numbers listed below)

### February 2014

Day	Date	Duty Officer	Title	Mobile No
Saturday	1	Gordon McGinn	NRSWA Programmer	07785612931
Sunday	2			
Monday	3	Fred Willett	Network Co-ordinator	07917350920
Tuesday	4	Paul Christy	Contract Supervisor	07717502518
Wednesday	5	Martin Thompson	Senior Utilities Inspector	07917350923
Thursday	6	Gordon McGinn	NRSWA Programmer	07785612931
Friday	7	Andy McDuff	Utilities Engineer	07917350921
Saturday	8	Fred Willett	Network Co-ordinator	07917350920
Sunday	9			
Monday	10	Paul Christy	Contract Supervisor	07717502518
Tuesday	12	Martin Thompson	Senior Utilities Inspector	07917350923
Wednesday	12	Andy McDuff	Utilities Engineer	07917350921
Thursday	13	Fred Willett	Network Co-ordinator	07917350920
Friday	14	Gordon McGinn	NRSWA Programmer	07785612931
Saturday	15	Paul Christy	Contract Supervisor	07717502518
Sunday	16			
Monday	17	Martin Thompson	Senior Utilities Inspector	07917350923
Tuesday	18	Andy McDuff	Utilities Engineer	07917350921
Wednesday	19	Gordon McGinn	NRSWA Programmer	07785612931
Thursday	20	Paul Christy	Contract Supervisor	07717502518
Friday	21	Fred Willett	Network Co-ordinator	07917350920
Saturday	22	Martin Thompson	Senior Utilities Inspector	07917350923
Sunday	23			
Monday	24	Andy McDuff	Utilities Engineer	07917350921
Tuesday	25	Gordon McGinn	NRSWA Programmer	07785612931
Wednesday	26	Fred Willett	Network Co-ordinator	07917350920
Thursday	27	Martin Thompson	Senior Utilities Inspector	07917350923
Friday	28	Paul Christy	Contract Supervisor	07717502518

### March 2014

Day	Date	Duty Officer	Title	Mobile No
Saturday	1	Gordon McGinn	NRSWA Programmer	07785612931
Sunday	2			
Monday	3	Fred Willett	Network Co-ordinator	07917350920
Tuesday	4	Paul Christy	Contract Supervisor	07717502518
Wednesday	5	Martin Thompson	Senior Utilities Inspector	07917350923
Thursday	6	Gordon McGinn	NRSWA Programmer	07785612931
Friday	7	Andy McDuff	Utilities Engineer	07917350921
Saturday	8	Fred Willett	Network Co-ordinator	07917350920
Sunday	9			
Monday	10	Paul Christy	Contract Supervisor	07717502518
Tuesday	12	Martin Thompson	Senior Utilities Inspector	07917350923
Wednesday	12	Andy McDuff	Utilities Engineer	07917350921
Thursday	13	Fred Willett	Network Co-ordinator	07917350920
Friday	14	Gordon McGinn	NRSWA Programmer	07785612931
Saturday	15	Paul Christy	Contract Supervisor	07717502518
Sunday	16			
Monday	17	Martin Thompson	Senior Utilities Inspector	07917350923
Tuesday	18	Andy McDuff	Utilities Engineer	07917350921
Wednesday	19	Gordon McGinn	NRSWA Programmer	07785612931
Thursday	20	Paul Christy	Contract Supervisor	07717502518
Friday	21	Fred Willett	Network Co-ordinator	07917350920
Saturday	22	Martin Thompson	Senior Utilities Inspector	07917350923
Sunday	23			
Monday	24	Andy McDuff	Utilities Engineer	07917350921
Tuesday	25	Gordon McGinn	NRSWA Programmer	07785612931
Wednesday	26	Fred Willett	Network Co-ordinator	07917350920
Thursday	27	Martin Thompson	Senior Utilities Inspector	07917350923
Friday	28	Paul Christy	Contract Supervisor	07717502518
Saturday	29	Martin Thompson	Senior Utilities Inspector	07917350923
Sunday	30			
Monday	31	Andy McDuff	Utilities Engineer	07917350921

## Appendix K2

### Winter Maintenance Service Manager Rota

<b>Week Commencing:</b>	<b>Service Manager</b>	<b>Contact Number</b>	<b>Standby Manager</b>	<b>Contact Number</b>
27 <sup>th</sup> Sep 2013	Ray Muscat	07831512980	Steve Hill	07836 517301
4 <sup>th</sup> Oct	Ray Muscat	07831512980	Steve Hill	07836 517301
11 <sup>th</sup> Oct	Ray Muscat	07831512980	Steve Hill	07836 517301
18 <sup>th</sup> Oct	Ray Muscat	07831512980	Steve Hill	07836 517301
25 <sup>th</sup> Oct	Ray Muscat	07831512980	Steve Hill	07836 517301
1 <sup>st</sup> Nov	Ray Muscat	07831512980	Steve Hill	07836 517301
8 <sup>th</sup> Nov	Ray Muscat	07831512980	Steve Hill	07836 517301
15 <sup>th</sup> Nov	Ray Muscat	07831512980	Steve Hill	07836 517301
22 <sup>th</sup> Nov	Ray Muscat	07831512980	Steve Hill	07836 517301
29 <sup>th</sup> Nov	Ray Muscat	07831512980	Steve Hill	07836 517301
6 <sup>th</sup> Dec	Ray Muscat	07831512980	Steve Hill	07836 517301
13 <sup>th</sup> Dec	Ray Muscat	07831512980	Steve Hill	07836 517301
20 <sup>st</sup> Dec	Ray Muscat	07831512980	Steve Hill	07836 517301
27 <sup>th</sup> Dec	Ray Muscat	07831512980	Steve Hill	07836 517301
3 <sup>rd</sup> Jan 2014	Ray Muscat	07831512980	Steve Hill	07836 517301
10 <sup>th</sup> Jan	Ray Muscat	07831512980	Steve Hill	07836 517301
17 <sup>th</sup> Jan	Ray Muscat	07831512980	Steve Hill	07836 517301
24 <sup>th</sup> Jan	Ray Muscat	07831512980	Steve Hill	07836 517301
31 <sup>st</sup> Jan	Ray Muscat	07831512980	Steve Hill	07836 517301
7 <sup>th</sup> Feb	Ray Muscat	07831512980	Steve Hill	07836 517301
14 <sup>th</sup> Feb	Ray Muscat	07831512980	Steve Hill	07836 517301
21 <sup>st</sup> Feb	Ray Muscat	07831512980	Steve Hill	07836 517301
28 <sup>th</sup> Feb	Ray Muscat	07831512980	Steve Hill	07836 517301
7 <sup>th</sup> Mar	Ray Muscat	07831512980	Steve Hill	07836 517301
14 <sup>th</sup> Mar	Ray Muscat	07831512980	Steve Hill	07836 517301
21 <sup>st</sup> Mar	Ray Muscat	07831512980	Steve Hill	07836 517301
28 <sup>th</sup> Mar	Ray Muscat	07831512980	Steve Hill	07836 517301
4 <sup>th</sup> Apr	Ray Muscat	07831512980	Steve Hill	07836 517301
11 <sup>th</sup> Apr	Ray Muscat	07831512980	Steve Hill	07836 517301
18 <sup>th</sup> Apr	Ray Muscat	07831512980	Steve Hill	07836 517301
25 <sup>th</sup> Apr	Ray Muscat	07831512980	Steve Hill	07836 517301
2 <sup>nd</sup> May	Ray Muscat	07831512980	Steve Hill	07836 517301

# **Appendix L**

## **Standard form and daily reports**

This appendix includes the following standard forms:

- Notification of Proposed Treatment
- Daily Operational Report
- Route monitoring Sheet Priority 1&2

The forms should preferably be submitted by email. Where transmission is by email the originator and distribution details do not need to be given as shown on the following pages as they will be included within the email.



# Winter Maintenance – Notification of Proposed Treatment

<b>Name:</b>	<b>Date:</b>	<b>Time:</b>
--------------	--------------	--------------

<b>DECISION BASED ON:-</b>	<b>Date</b>	<b>Time</b>
24 Hours Met Office Report:		
Findlay Irvine Weather Station Check:		
Inspection:		
HCC:		
Area 3:		
Other:		

<b>ACTION TO BE TAKEN:</b>	<b>YES</b>	<input type="checkbox"/>	<b>NO</b>	<input type="checkbox"/>
----------------------------	------------	--------------------------	-----------	--------------------------

<b>Code</b>	<b>Description</b>	<b>Start Time</b>	<b>Spread Rate (g/m2)</b>	<b>Comments</b>
WM 01	Priority 1 Routes			
WM 02	Priority 2 Routes			
WM 03	Priority 1/2/3/4 Only			
WM 04	Frost Spots			
WM 05	Snow Plough			
WM M275	M275			
STANDBY				

<b>FURTHER INSPECTION REQUIRED:</b>	<b>YES</b>	<input type="checkbox"/>	<b>NO</b>	<input type="checkbox"/>
-------------------------------------	------------	--------------------------	-----------	--------------------------

<b>Recommendation for Escalation at the time of notification:-</b>						
Level	1	<input type="checkbox"/>	2	<input type="checkbox"/>	3	<input type="checkbox"/>
Stage	1	<input type="checkbox"/>	2	<input type="checkbox"/>	3	<input type="checkbox"/>
Accepted by PCC:	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>		



## Winter Maintenance – Daily Operational Report

To: Portsmouth City Council			Date:		Time:		
Winter Maintenance Officer (Name):							
Period Covered Dates:		From:				To:	
Period Covered Times:		From:				To:	
Operational Summary							
Route No	Proposed Treatment			Actual Treatment			Comments
	Spread Rate (g/m <sup>2</sup> )	Start Time	Finish Time	Spread Rate (g/m <sup>2</sup> )	Start Time	Finish Time	
FW Treatment Activity:							
Road Closures:							
Salt Stock remaining at 0800 hours:					Salt Supply expected in next 24 hours:		
Additional Comments:							
Escalation Changes:							



# ROUTE MONITORING SHEET – PRIORITY 1 & 2

Route / Vehicle 1

Date: \_\_\_\_\_

ROUTE	FLEET NO	DRIVER	TIME ON	TIME OFF	LOAD	PLOUGH FITTED	SPREAD RATE	VEHICLE CONDITION/ PROBLEMS	COMMENTS
<b>Priority 1</b>									
1									
5									
6									
7									
<b>M275</b>									
<b>Priority 2</b>									
18									
19									
21									
24									
<b>M275</b>									

<b>START WEIGHT:</b>		<b>FINISH WEIGHT:</b>	
----------------------	--	-----------------------	--

Driver's Signature upon completion: \_\_\_\_\_

## ROUTE MONITORING SHEET – PRIORITY 1 & 2

Route / Vehicle 2

Date: \_\_\_\_\_

ROUTE	FLEET NO	DRIVER	TIME ON	TIME OFF	LOAD	PLOUGH FITTED	SPREAD RATE	VEHICLE CONDITION/ PROBLEMS	COMMENTS
<b>Priority 1</b>									
2									
3									
4									
<b>M275</b>									
<b>Priority 2</b>									
13									
14									
15									
16									
<b>M275</b>									

<b>START WEIGHT:</b>		<b>FINISH WEIGHT:</b>	
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Driver's Signature upon completion: \_\_\_\_\_

## ROUTE MONITORING SHEET – PRIORITY 1 & 2

Route / Vehicle 3

Date: \_\_\_\_\_

ROUTE	FLEET NO	DRIVER	TIME ON	TIME OFF	LOAD	PLOUGH FITTED	SPREAD RATE	VEHICLE CONDITION/ PROBLEMS	COMMENTS
<b>Priority 1</b>									
8									
9									
10									
11									
12									
<b>M275</b>									
<b>Priority 2</b>									
17									
20									
22									
23									
25									
M275									

<b>START WEIGHT:</b>		<b>FINISH WEIGHT:</b>	
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Driver's Signature upon completion: \_\_\_\_\_

# Appendix M

## Copy of gritter drivers City and Guilds certificates



### WINTER SERVICE

This is to certify that -



**Anthony White**

Is an approved Winter Service Operator in the unit structure listed overleaf

Operative Registration Number  
**009141**

Name of Assessor	Expiry Date
Andrew Bow	
City & Guilds Assessment Centre No. 063813	19/6/18
Equipment Endorsements	
Unit 011 Up to 3500kg	
Unit 012 Up to 7500kg	
Unit 013 Over 7500kg	
Unit 014 Foden 4000	
Unit 015	
Unit 040	
Unit 050 Rolba 400 or 1000	
Unit 060	
Unit 070	
Unit 080	17/6/18
Unit 021 Supervisor/Manager	
Spreader - fixed/demountable	
Snowplough angle/vee blade	



### WINTER SERVICE

This is to certify that -



**David John Cale**

Is an approved Winter Service Operator in the unit structure listed overleaf

Operative Registration Number  
**009140**

Name of Assessor	Expiry Date
Andrew Bow	
City & Guilds Assessment Centre No. 063813	18/6/18
Equipment Endorsements	
Unit 011 Up to 3500kg	
Unit 012 Up to 7500kg	
Unit 013 Over 7500kg	
Unit 014 Foden 4000	
Unit 015	
Unit 040	
Unit 050 Rolba 400 or 1000	
Unit 060	
Unit 070	
Unit 080	17/6/18
Unit 021 Supervisor/Manager	
Spreader - fixed/demountable	
Snowplough angle/vee blade	



### WINTER SERVICE

This is to certify that -



**Trevor Ward**

Is an approved Winter Service Operator in the unit structure listed overleaf

Operative Registration Number  
**009139**

Name of Assessor	Expiry Date
Andrew Bow	
City & Guilds Assessment Centre No. 063813	18/6/18
Equipment Endorsements	
Unit 011 Up to 3500kg	
Unit 012 Up to 7500kg	
Unit 013 Over 7500kg	
Unit 014 Foden 4000	
Unit 015	
Unit 040	
Unit 050 Rolba 400 or 1000	
Unit 060	
Unit 070	
Unit 080	17/6/18
Unit 021 Supervisor/Manager	
Spreader - fixed/demountable	
Snowplough angle/vee blade	



### WINTER SERVICE

This is to certify that -



**Paul Farmer**

Is an approved Winter Service Operator in the unit structure listed overleaf

Operative Registration Number  
**005804**

Name of Assessor	Expiry Date
Andrew Bow	
City & Guilds Assessment Centre No. 063813	25/10/16
Equipment Endorsements	
Unit 011 Up to 3500kg	
Unit 012 Up to 7500kg	
Unit 013 Over 7500kg	
Unit 014 Foden 4000	
Unit 015	
Unit 040	
Unit 050 Rolba 400 or 1000	
Unit 060	
Unit 070	
Unit 080	24/10/16
Unit 021 Supervisor/Manager	
Spreader - fixed/demountable	
Snowplough angle/vee blade	



### WINTER SERVICE



This is to certify that -

**Mike Turner**

Is an approved Winter Service Operator in the unit structure listed overleaf

Operative Registration Number  
**005805**



### WINTER SERVICE



This is to certify that -

**Troy Adam West**

Is an approved Winter Service Operator in the unit structure listed overleaf

Operative Registration Number  
**005806**

Name of Assessor		Expiry Date
Andrew Bow	Unit 011 Up to 3500kg	
City & Guilds Assessment Centre No. 063813	Unit 012 Up to 7500kg	
	Unit 013 Over 7500kg	26/10/16
	Unit 014 Foden 4000	
Equipment Endorsements	Unit 015	
	Unit 040	
Spreader - fixed/demountable	Unit 050 Rolba 400 or 1000	
	Unit 060	
	Unit 070	
Snowplough angle/vee blade	Unit 080	24/10/16
	Unit 021 Supervisor/Manager	

Name of Assessor		Expiry Date
Andrew Bow	Unit 011 Up to 3500kg	
City & Guilds Assessment Centre No. 063813	Unit 012 Up to 7500kg	
	Unit 013 Over 7500kg	26/10/16
	Unit 014 Foden 4000	
Equipment Endorsements	Unit 015	
	Unit 040	
Spreader - fixed/demountable	Unit 050 Rolba 400 or 1000	
	Unit 060	
	Unit 070	
Snowplough angle/vee blade	Unit 080	24/10/16
	Unit 021 Supervisor/Manager	



# Appendix N

## Snow Desk Content

The Snow Desk room shall contain the following equipment as a minimum;

- 1 PC / laptop with, email facilities, self sufficient broadband Internet access and network access to Colas company systems, email facilities.
- 1 large scale street maps of the network showing termination points
- 1 large scale street maps of the network
- 1 Laminated copies of the gritting routes
- 1 copy of the Network roads hierarchy map
- 1 copy of the current winter WMDO and WMSM rota
- 1 copy of the Code of Practice for Maintenance Management
- 1 copy of the ICE Design and Practice Guide for Highway Winter Maintenance
- 1 copy of the Emergency Services Plan
- 1 copy of the HCC Winter Maintenance Plan
- 1 copy of the emergency telephone contact list
- 1 copy of the Winter Service Plan
- 1 FM/MW Radio, main powered with battery backup
- 1 TV set
- 2 land line telephones

# Appendix O

## Section 8 Agreement between PCC & HCC

