

**The APSE Highways, Street Lighting and Winter
Maintenance Services Seminar 2017**



**Workshop three:
Winter Maintenance**

**Get involved @apseevents
#APSEhighways
www.apse.org.uk**

Kindly sponsored by:



Winter Resilience

Thursday 9th March

APSE Conference - Blackpool



EAST RIDING
OF YORKSHIRE COUNCIL

East Riding of Yorkshire Council
County Hall Beverley
East Riding of Yorkshire HU17 9BA
Telephone 01482 887700 • www.eastriding.gov.uk

Winter Service - ERYC

- How we deliver the service
- Challenges
- Priorities
- Self help and localism
- Communication
- Performance & quality
- Summary



Winter Service - review

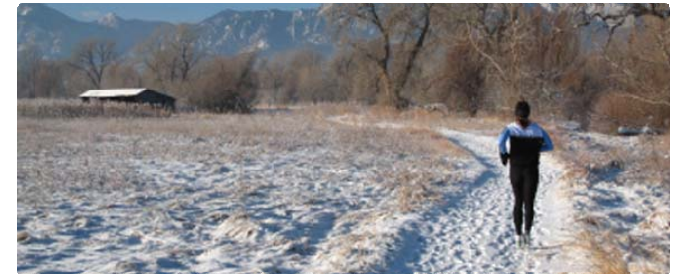


- Service reviewed every 3 years
- Feedback considered
- Report approved by Cabinet
- Major network issues between reviews



Winter Service – precautionary

- Principal roads
- Main distributor roads – A, B & some C
- Access routes to emergency depots/hospitals
- Integrate with primary network of neighbours
- Diversion routes - closure of a treated road
- Steep gradients > 1,000 vehicles a day
- Traffic flows > 2,000 vehicles a day



Winter Service – where we treat

- Precautionary Network – treated when ice or snow is forecast - 38%
- Secondary Network – when ice or snow forecast to persist - 12%
- Footpath Network – 3.91%
- Snow Clearance Network – fall back situation
- Salt bins – around 1,000 – 400 heaps



Winter Service – operational

- 17 precautionary routes
- 21 vehicles (4 spares)
- Pre-wetted salting
- Aim is to salt a route in 3 hours
- Weather forecasts by domain (monitor 24/7)
- 4 domains – can treat in isolation
- 9 weather stations
- 4 depots – 6 storage domes - 2 strategic



Winter Service – drivers



Not all ERYC
employed



Training days
Team building
Tool box talks



EAST RIDING
OF YORKSHIRE COUNCIL

East Riding of Yorkshire Council
County Hall Beverley
East Riding of Yorkshire HU17 9BA
Telephone 01482 887700 • www.eastriding.gov.uk

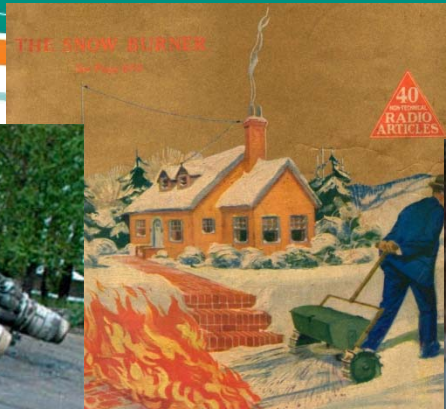
The Winter Services – the fleet



EAST RIDING
OF YORKSHIRE COUNCIL

East Riding of Yorkshire Council
County Hall Beverley
East Riding of Yorkshire HU17 9BA
Telephone 01482 887700 • www.eastriding.gov.uk

The Winter Fleet – innovation?

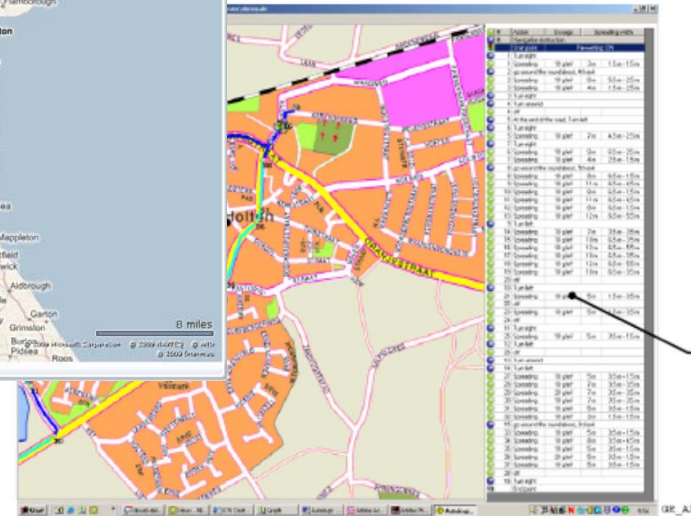
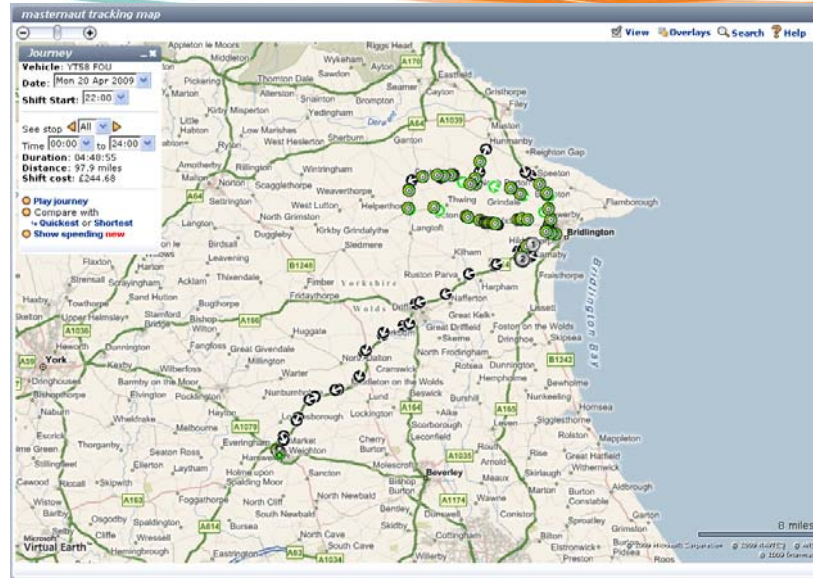


Winter Service – technology



Software version : V3.00
Manual version : 4.00 11-12-2008

Nido
Nido Universal Trackers by: mcmorris@nido
Partners: 01 753 755 44 44
Tel: +1 2548 370 200 Fax: +1 2548 370 233
Email: info@nido.com internet: www.nido.com



All vehicles fitted with tracking and auto salting



EAST RIDING
OF YORKSHIRE COUNCIL

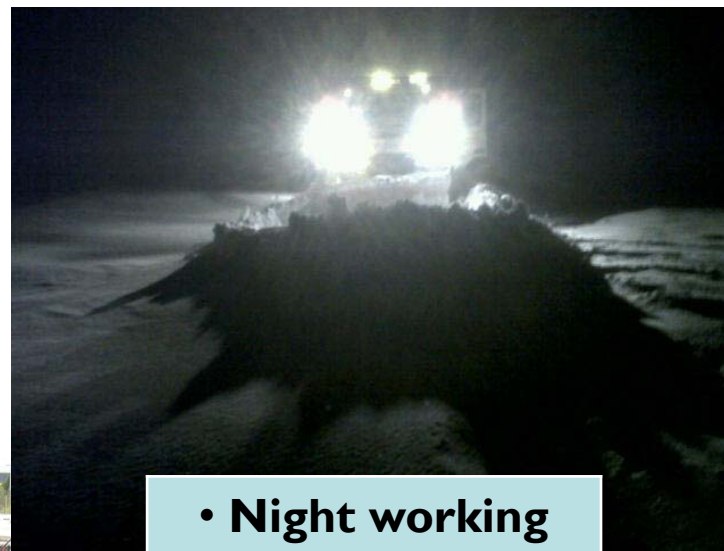
East Riding of Yorkshire Council
County Hall Beverley
East Riding of Yorkshire HU17 9BA
Telephone 01482 887700 • www.eastriding.gov.uk



Winter Service – reality



- **Narrow roads**
- **Access issues**
- **Breakdowns**
- **Called out at any time**



- **Night working**
- **Poor conditions**
- **Parked vehicles**
- **Driver cover**
- **Materials**



Winter Service – efficiency

- General requirements/constraints:
- Route efficiency
- Treat in domains
- Treat within 3 hours
- Driver safety
- Redirect resources in severe conditions
- Publicity plans
- Liaise with our neighbours & emergency services



Winter service – resilience

- Recent winters some of the worst for years
- National salt shortages
- Budget pressures
- Built two strategic stores
- 17,500 tonnes at start of season
- Increased brine storage facilities
- Community Payback – footpaths in busy areas
- Purchased 26 snow blowers - busy footpaths



Winter Service – localism & grants

- Parish grant scheme launched to support residents
- Funding aimed at local self help:
 - Additional salt bins
 - Salt purchase
 - Snow clearance
 - Shovels
 - Protective clothing
 - Spreaders etc



Emergency plan development encouraged



Winter Service – salt bins/heaps

- Approximately 1000 bins – generally urban
- Approximately 600 heaps - generally rural
- East Riding funded - subject to assessment
- E.g. steep hills, sharp bends etc
- For use on the public highway
- Parish/Town Councils can fund bins



Winter Service – snow!!



What if this happens



Snow clearance network



EAST RIDING
OF YORKSHIRE COUNCIL

East Riding of Yorkshire Council
County Hall Beverley
East Riding of Yorkshire HU17 9BA
Telephone 01482 887700 • www.eastriding.gov.uk

Winter Service – publicity

- Your East Riding
- Parish newsletters
- Web pages
- Twitter
- Radio & television
- Local newspapers
- Leaflet – ‘Make Time for Winter’



Winter Service – performance

- APSE benchmarking
- The cost of salting
- Treatment times
- On the road on time
- Quality Assurance ISO 9001



Month	Number			Performance	
	Precautionary Treatments	Treatments Over 3 Hours	Treatments Late on Road	PIA: Treatments Less Than 3 Hours	PIB: Treatments On The Road On Time
October	0	0	0	0	0
November	273	22	25	91.9%	90.8%
December	174	16	13	90.8%	92.5%
January	393	28	15	92.9%	96.2%
February	185	5	17	97.3%	90.6%
March	34	1	7	97.1%	79.4%
April	0	0	0	0	0
Totals	1059	72	77	93.2%	92.7%

Late On Road		Treatment Over 3 Hours	
Reason	Number	Reason	Number
Chassis Breakdown	15	Accident	1
Driver Unavailable	4	Chassis Breakdown	9
Late In Depot	23	Driverless	6
Loading Shovel Breakdown	9	On The Road Late	1
No Response To Text	1	Other	30
Other	8	Ran Out of Salt	13
Soil Loading Problems	6	Spreader Breakdown	3
Unfamiliar Equipment	2	Traffic Congestion	16
Vehicle Unavailable	1	Unfamiliar Equipment	1
Depot Congestion	8	Unfamiliar Route	12
Total	77	Total	72



Winter Service – quality & control

- Winter Service Plan
- Quality Manual
- Processes & Descriptions
- Standard Operating Procedures
- Work Instructions
- Audits
- Records



Winter Service - summary

- Priority is our statutory duty
- Cannot treat the whole of the network
- Prioritisation
- Concentrate on change only where there is a major new route or development
- Encourage local self help
- Plan for performance & quality



Winter Service



Despite the planning things still go wrong!



Winter Service

Discussion – Performance & Resilience



EAST RIDING
OF YORKSHIRE COUNCIL

East Riding of Yorkshire Council
County Hall Beverley
East Riding of Yorkshire HU17 9BA
Telephone 01482 887700 • www.eastriding.gov.uk