



Ringway



Environment Overview and Scrutiny Panel

18th January 2023

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- Update since January 2020 Scrutiny
- Environmental Initiatives
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Actions/Information Requested from January 2020

- update on pothole/rut repairs to show incidences of repeat repairs and which materials had been used
 - updates on new best practice and good news stories
 - information about materials available for highway maintenance
 - briefing on the Highways Maintenance Services Contract including KPIs
 - visit a depot to see staff using smart technology
 - annual update on new efficiencies and developments in highway maintenance
 - workforce education – resident access, positioning of equipment.....
 - review of communications with councillors about planned highway works
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Update on pothole/rut repairs

- Type 1 defects are permanent repair
- Type 2 defects are a temporary repair which form part of the asset management strategy which feeds into the carriageway/footway programmes
- All asphalt repairs are carried out using AC (Asphaltic Concrete (macadam)) surface course (6mm or 10mm)



Updates on best practice and good news stories

- Footway Workshop – June 2022
 - Alternative to traditional asphalt construction – micro asphalt surfacing and overlay works have increased resulting in less arisings
 - Increase use of recycled binder course – Recofoam produced at the Stanford Depot has now replaced traditional asphaltic concrete (tarmac) binder course in footway reconstruction
 - Increase usage of Warm Mix Asphalts as a surface course in footways

Updates on best practice and good news stories (contd)

- Carriageway Workshop (May 2022)
 - Increased usage of Warm Mix Asphalts now including Surface Courses
 - Introduction of E-Tech – asphalt delivery, laying and compacting tracking to ensure correct temperatures are maintained
 - Increased usage of recycled binder courses (Reco-foam) to address the disposal of tar bound planings



E-Tech Summary



Materials available for highway maintenance

Warm Mix Asphalts (as previously discussed)

Pros:-

- reduced carbon emissions during production
- Open to traffic in a shorter period

Cons:-

- More difficult to rake in colder weather (surface course)
- Potential for material failure due to reduced temps at laying and compaction stages
- Leads to seasonal working
- Remedial works would wipe out any carbon reduction benefits

Footway micro asphalt

Pros:-

- Self delivery
- Preventative maintenance
- Whole life value
- Minimum waste (reduction in excavation volumes)

Cons:-

- Seasonal

Materials available for highway maintenance (contd)

Paco Patch (permanent ironwork adjusting)

Pros :-

- Tried and tested longevity of repair,
- Less than 1% of all works have been revisited
- quick process meaningless disruption to travelling public

Ulti fast-path (single course 'macadam' for reconstruction of footpaths)

Pros :-

- One application – laid and compacted in one single layer resulting in reduced working time
- Reduced waste – generally laid at 60mm versus traditional footway construction of 100mm
- One course approach to replace concrete flag paving with a flexible pavement

Red Stag EZ Street – a cold lay material for rapid pothole repairs. Low energy produced material utilising bio fuels in stead of diesel – currently being trialled.

Highways Maintenance Service Contract (HMSC)

- KPIs used to monitor Contractor Performance and mechanism to award extensions
- Core Period of contract - 6.5 years from 1 April 2014 to 30 Sept 2020
- Opportunity for Contractor to earn a total of a further 6 years of extensions based on performance
- Extensions earned throughout the duration of Contract within designated Core years
- This aids forward Planning for both parties
- Three key 'Gateway KPIs' which the Contractor must pass before considering the Scored KPIs
- Scored KPIs consist of 10 individual indicators
- To achieve a further extension the Contractor must meet minimum acceptable score for all indicators
- To date the Contractor has been successful in doing so
- Contractor recently awarded a further Extension Year as the 'extension release score' during core period 6 was achieved
- This extends the current contract end date to 30 September 2025 (latest possible end date of 30 September 2026)

Depot Visit

- Members visit to Lydiate Ash in March 2022 to view:
 - Defect Reporting (a day in the life of a defect)
 - Gully emptying video and reporting
 - Road Marking video and reporting
 - Intelliframe
 - Recycling – including Reco-foam and type 1 production



Annual update on new efficiencies and developments in highway maintenance

- Root cutting and pipe sleeving
- Asset management efficiencies through data collection (ESRI/GIS systems)
- Drones for structures and bridges inspections
- Laser cutting of paving materials
- Pontoon for bridgeworks
- Remote controlled compaction plant



Workforce education – resident access, positioning of equipment.....

- Conflict resolution training
- Body Cams now worn
- Lone worker devices
- Roadworker anti-abuse campaign supported by Jon Fraser, BBC, MP
- Sure Cams – vehicle cab cameras
- Traffic Management plans are agreed in advance regarding siting of signage and signal heads

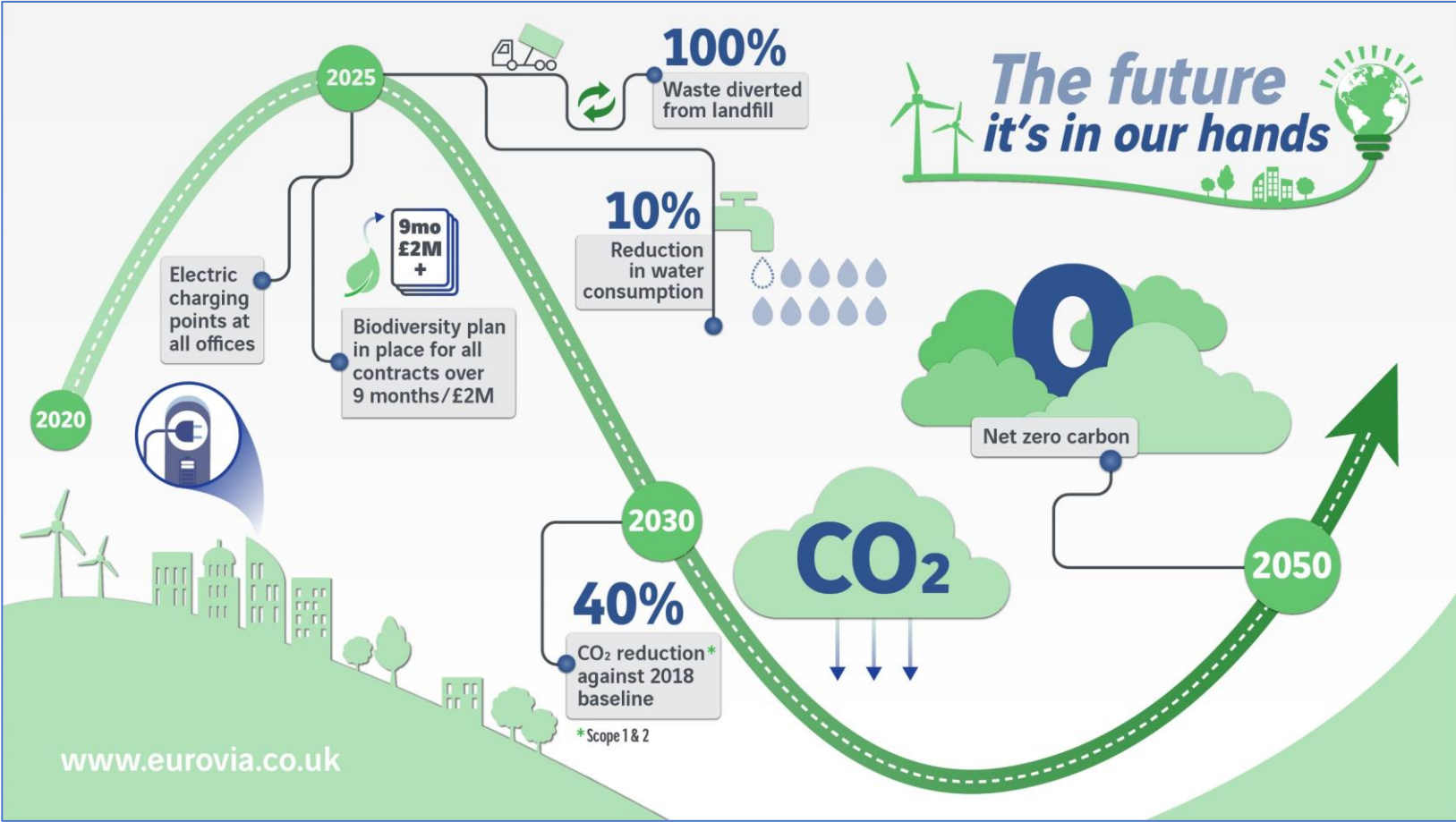


Review of communications with councillors about planned highway works

- Regular meeting – WCC and Ringway – including communications teams, to discuss service areas and when best to publish/produce good news stories
- Weekly publication of ‘Highways on Fridays’ listing planned works/events for the forthcoming week.
- Further comms on works affecting key routes, which Local Members can then disseminate wider within their own Divisions.
- Further consideration to be given to alternative methods of communication, e.g. WhatsApp



Environment



Environmental – Vinci Environmental Day/Awards

- **Environmental Day (Global event)**
 - now to be held annually
 - opportunity for subsidiaries and divisions to reflect on how they can change their daily operations to achieve our environmental ambitions
- **Environmental Awards – 1**
 - 200 ideas gathered from all employees around the world
 - looking at how these ambitions can be rolled out into all parts of the business




Environmental – Initiatives

- Ringway Fleet working with WCC to explore HVO fuel possibilities
- Increase use of Electric vehicles for company cars and operational vehicles. EV charging points installed at Warndon and Newlands
- 96.9% of waste diverted away from tip with the highest % of recycled arisings since the contract began in 2014
- Beehives to be established in four of the Worcestershire Ringway Depots in 2023
- Depots in Bloom – encouraging depots to be more environmentally friendly (huge buy-in from the teams)



Environmental – Initiatives contd....

- Environment Day - held in September attended by Councillor Morris held at the Worcestershire Wildlife Trust, Lower Smite Farm
 - Volunteering Days – Staff encouraged to take two days to participate in local community projects → 380 person days potentially per annum
 - Forest of Dean & Wyre Forest 60 mile link corridor
 - Ringway now associated working with WEG, WDT, WWT and WGRT (Vinci funding) and Director of Sustainability for Worcester University
 - Recycling of gully waste
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Environmental – Recycling Stanford Depot

- 2022 YTD:

	Quantity In (tonnes)			Quantity Out (tonnes)		
	Hardcore	RAP	AWCCT	Type 1	HD RECOFOAM®	Storage RECOFOAM®
Worcs.	16,667	525	1,212	4,319	330	5,900
Gloucs.	369			380		
External	-			10,006		
Total	17,036	525	1,212	14,705	330	5,900

- Highlights:

- 6,099 tonnes back swept surface dressing chippings washed to produce 4,959 tonnes of re-usable products (clean aggregate for SD and dusting activities)
- 1,212 tonnes asphalt waste containing coal tar (AWCCT) diverted from landfill and encapsulated within RECOFOAM® products for re-use
- 623 tonnes gully waste arisings transferred to local recycling facility for re-use
- Achieved contract extension KPI for recycling 50.78% (against target of 40%)



Environment – Network Resilience

Network Resilience Forum (Severe Weather Events) – WCC and Ringway Working Group Established in 2021

- Proactive Asset Management
- Reactive Restoration following an Incident
- Resilient Communications

Highly Commended at the CIHT Awards September 2022

Network Resilience Forum 2.0 for 2023 including Environment Agency



Digital

- Senior Supervisor based at Lydiate Ash part of Group Digital Working Forum
- ESRI – drainage, grit bins, recording of out of hours attendance to deploy traffic management
- Drones – Bridge inspections (reduction in Traffic Management)
- Fleet Management – stock control (paperless)
- E-Tech – Coated Material Monitoring System in conjunction with Eurovia – as previously discussed
- Tablets for site Teams (paperless) – stat plans, project packs etc.
- WCC/Ringway to create paperless offices during 2023

Social Value

- Operation London Bridge
- Volunteering Days
- Vinci UK Foundation – Wild Goose Rural Training £6800 grant awarded
- Tree of Trees
- Fund raising activities
- Community Engagement



Social Value 2023

- More Volunteering in 2023 (380 days)
- Themes, Outcomes & Measures (TOM's 2023) – measuring social value
- Offenders programme – in discussion with other contracts
- Interaction with schools – area-based recruitment drive of Apprentices
- Career days



Self Delivery

- Target to self deliver a minimum of 70% of all works
- Currently self delivering 65%
- Majority of the remaining 35% is delivered by Worcestershire based supply chain partners including:-
 - Kelbec – Redditch (public realm works)
 - C R MacDonalds – Redditch (footway and carriageway surfacing)
 - Teme Civils – Tenbury Wells (Future High Street Funding works)
 - Green Waste Recycling – Droitwich (Sweeper and Planer services)