

G o i n g a b o v e



ROPE & RAIL LTD

www.rop-and-rail.com

A n d b e y o n d . . .



About Us

SAS Rope & Rail Ltd is a leading contractor with expertise in multiple disciplines. With extensive experience in our field, we operate across the country, with offices in Swindon, Doncaster, Cardiff, London, Derby, and Edinburgh.

Whilst we are recognised for our specialised services in Rope Access and rail, our reputation is based on our highly trained and skilled workforce. We have established ourselves as a trusted partner and supplier of essential infrastructure support.

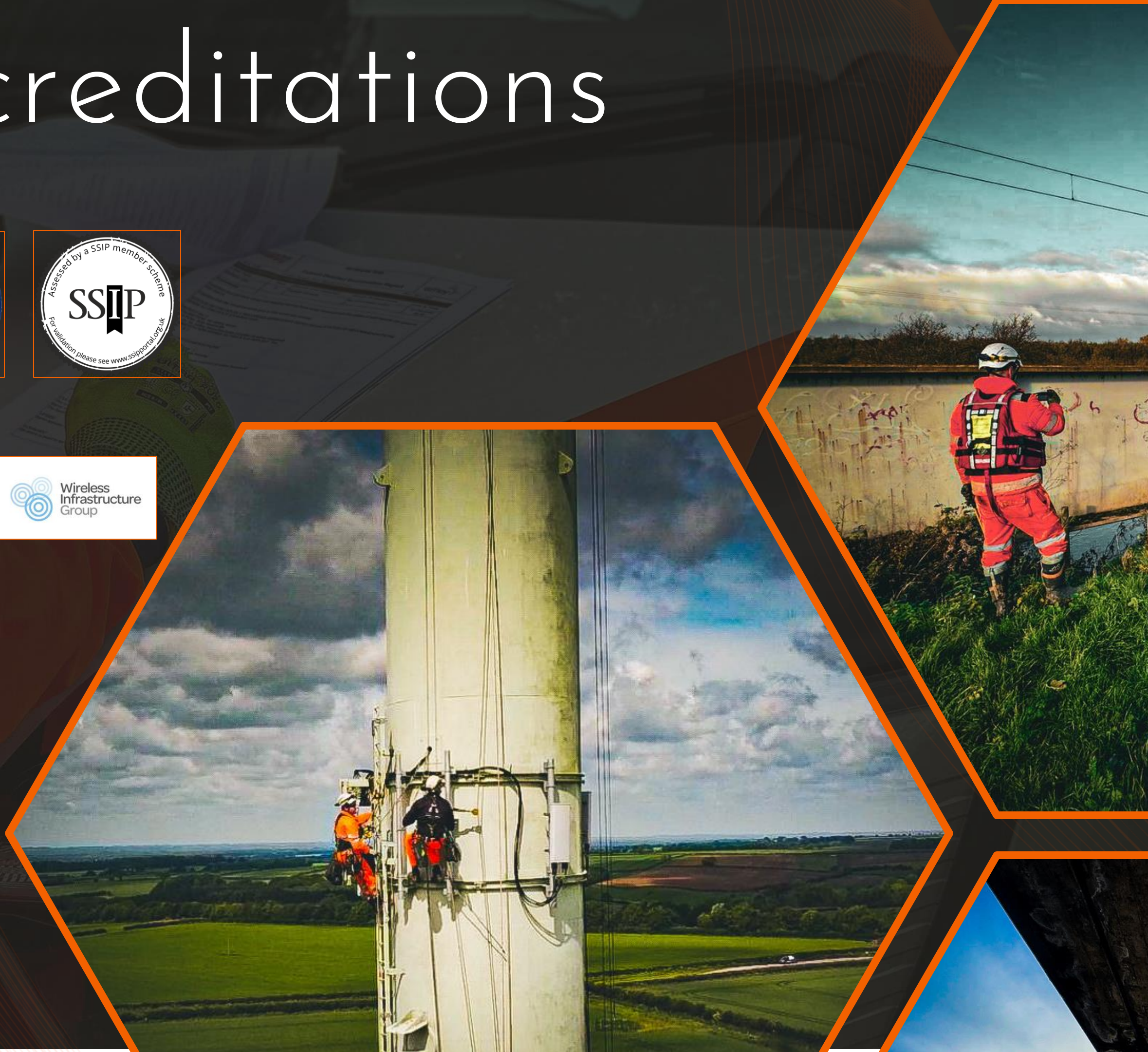
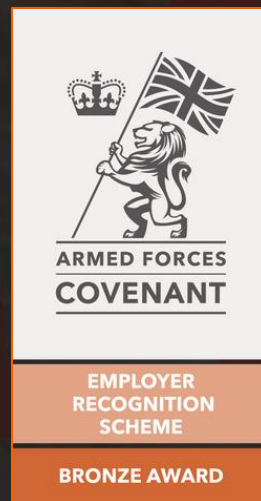
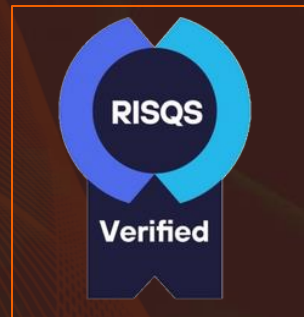
Whether you need our expert rope technicians for the most inaccessible areas for maintenance, or require the assistance of our innovative department to remotely inspect inaccessible structures, SAS is here to support you in completing even the most challenging projects.

Locations

SAS Rope and Rail is proud to offer highly specialised teams that are available to travel nationwide from our bases in Edinburgh, Doncaster, Derby, Swindon, Cardiff and London. Our commitment to our clients goes beyond the standard level of service. We believe in over delivering and going the extra mile to meet our clients' needs. Whether it requires additional personnel, resources, or time, we are dedicated to finding the best solution to ensure our clients' satisfaction.



Accreditations



Valued Clients



Services

Rope
Access

Vegetation
Management

Structural
Examinations

Enabling
Works

Ecology

Boat &
Pontoon

Drone
Surveys

Culvert
Jetting

CCTV
Examinations

Cladding

Telecoms

Core
Drilling

Rope Access

Rope access serves as an effective alternative to traditional methods for reaching work areas, facilitating a broad range of tasks including building maintenance, repairs, painting, glazing, structural inspections, façade cleaning, and much more. As the name implies, this technique utilises ropes, harnesses, and a variety of safety equipment, rather than relying on more time-consuming, cumbersome, and disruptive methods like scaffolding or Mobile Elevating Work Platforms (MEWPs).

This approach is not only safe and efficient, but it also delivers outstanding results, allowing for practical and convenient management of tasks while providing financial benefits to the businesses below.

Rope access is typically performed by highly trained and compliant rope access technicians. Each technician is required to hold IRATA (International Rope Access Trade Association) qualifications, ensuring rigorous adherence to safety protocols and effective risk assessment for work conducted at height.

In summary, rope access offers a safe, cost-effective, and highly efficient solution for accessing various worksites without causing disruption to the environment below. It provides a practical means of reaching even the most challenging or complex areas with relative ease.



A full-page background image on the left side of the slide. It shows a man in profile, facing left, wearing a white helmet with a clear face shield and large black ear muffs. He is wearing a bright orange high-visibility safety suit with reflective silver stripes. He is standing next to a large orange and black piece of machinery, which appears to be a tree-cutting or mulching machine. The background is a dense, wooded area with trees and foliage.

Vegetation Management

At SAS Rope & Rail we excel in providing premium de-vegetation services, primarily for the railway industry, though our expertise extends beyond. Our team, certified in IRATA and tree climbing, is equipped to tackle projects across diverse sectors and challenging environments.

We are adept at managing unique de-vegetation challenges, prioritising safety and efficiency in railway settings and beyond. With our IRATA qualifications, we specialise in executing de-vegetation tasks in high-risk, hard-to-reach locations, making us a reliable and adaptable partner.

Our comprehensive solutions encompass everything from initial site assessments to the execution of de-vegetation plans, all tailored to meet our clients' specific requirements. We adhere to the highest safety standards, ensuring that every operation is carried out with utmost care and professionalism.

By merging our expertise with streamlined processes, we provide high-quality, cost-effective services. At SAS Rope & Rail, we are dedicated to helping our clients maintain and enhance their infrastructure, ensuring both operational safety and efficiency. Our commitment is to consistently surpass client expectations.

A decorative orange arrow pointing left, located in the bottom right corner of the slide.

Structural Examinations

SAS Rope & Rail are structural examination experts. Our examiners have been providing specialist structural examination services since 2004, offering a host of safe and efficient detailed inspection options. Our multi-disciplined approach allows us to carry out a huge range of examinations, no matter how limited or difficult the access, in a way that is affordable, minimally intrusive, and completely safe.

Our examiners are STE/02, STE/04, STE/05, STE/06, STE/07 qualified and all hold Network Rail competences that enable them to carry out inspections on the rail infrastructure. Our comprehensive reports are completed to the highest standard, highlighting defects with photographic evidence and including recommendations for any remedial works that may be required.

Recent surveys include:

- Bridge Inspections
- High Level Leak Investigations
- Retaining Wall Inspections





Enabling Works

SAS Rope and Rails' IRATA, NPTC and LANTRA qualified operatives can remove any obstacle, clearing the way for our clients to complete their projects on time. In environmentally sensitive areas, our ecologist can accompany our operatives to provide on site advice in relation to ecological constraints.

During the planning stages our operatives will scope a site to determine the level of de-vegetation required, communicating with local landowners and keeping the client informed at all stages.

Our operatives can clear the most challenging terrain providing the following services:

- Ariel rescue and cutting
- Brush cutting
- Hedge-cutting
- PA1 (herbicide spraying)
- Stump grinding
- Tree surgery
- Tree climbing
- Wood-chipping



Ecology

SAS Rope and Rail understands the importance of ecological assessment in project planning. We have a dedicated and qualified in-house ecologist who collaborates with our operations teams from the pre-planning stage until project completion.

Our goal is to ensure that all work is carried out in the best interests of the environment and in compliance with current environmental legislation.

As part of our commitment to environmental stewardship, we conduct thorough desk-based studies for all waterway permit applications, regardless of whether de-vegetation is required. Our ecologist provides comprehensive ecology services, including Preliminary Ecological Appraisals, Biodiversity Net Gain assessments, Protected Species Surveys, Botanical Surveys, Tree Surveys, Climbing Ecologist services, and On-Site Ecology Supervision.

Our in-house ecologist is available to provide clients with the necessary advice and guidance to ensure projects are executed safely and in accordance with legislative requirements. We strongly recommend engaging with our ecology department as early as possible before project commencement to avoid potential delays and associated costs driven by the ecology calendar.



Boat & Pontoon

SAS Rope and Rail have fully licensed water craft and are regularly required to provide safety boat services to our clients who are working on structures above our waterways. We also provide our own pontoons and scaffolding to enable us to react quickly to provide services at any location.

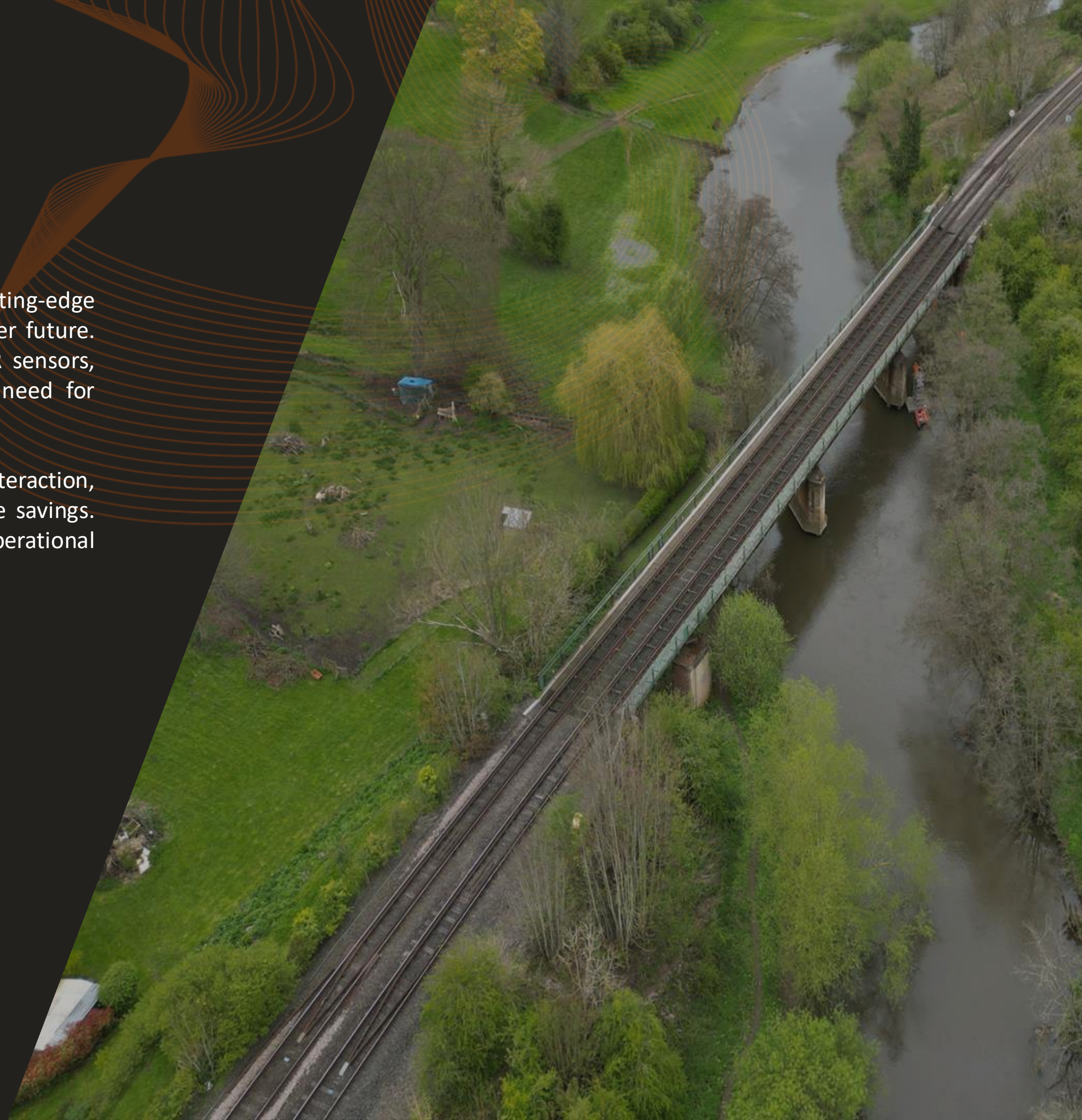
Our RYA qualified operatives work with bodies such as the Canal & Rivers Trust, the Environment Agency and Association of British Ports ensuring that all required permits are in place before works can be carried out.



Drone Surveys

At SAS Rope & Rail, our dedicated innovation department leverages cutting-edge technology to enhance work quality, minimise risks, and contribute to a greener future. Our Unmanned Air Systems (UAS), equipped with photogrammetry and LiDAR sensors, enable us to conduct surveys and efficiently plan projects, minimising the need for multiple teams on the ground.

Our remote examinations systems significantly reduce staff-infrastructure interaction, leading to improved health and safety measures, as well as time and resource savings. With this approach, we prioritise the well-being of our team while optimising operational efficiency.





Culvert Jetting

When it comes to works around culverts and the need for them cleansing, SAS Rope & Rail understand the importance of ensuring culverts remain functional as intended and unblocked.

SAS Rope & Rail carry out culvert cleaning to facilitate a structural examination utilising a Jet-vac unit to carry out the dewater, desilt works required.

Culverts, often hidden beneath the surface, play a crucial role in drainage systems. These structures allow water to flow smoothly, preventing flooding and safeguarding the railway and communities.

Operating with Jet-Vac Recycling Tankers, SAS Rope & Rail have the ability to facilitate high pressure water jetting capabilities to clean culverts and remove blockages of silt and debris where required. We can provide a solution to deal with all types of structures. Our high-pressure systems can clean all diameter of culverts. As part of the Jet-Vac service we can also provide a remote reel to provide access to remote areas where a normal vehicle would struggle for access.

SAS Rope & Rail have the knowledge and experience to identify and clean the culverts quickly and effectively and with minimal disruption to the client.



CCTV Examinations

SAS Rope and Rail recognise the significance of utilising various CCTV technologies to evaluate diverse structures and environments effectively. Our CCTV operators are highly trained, with competencies in OS19, OS21X, and STE4.

Culverts, often concealed beneath the ground, are vital components of drainage systems. They facilitate the smooth flow of water, thereby preventing flooding and protecting both railway infrastructure and surrounding communities.

Here's why using CCTV units for hard to access culvert inspections is essential:
Flood Prevention:

- Proactively: identifying blockages, cracks, or misalignments allows us to avert disruptive flooding. Regular inspections ensure that culverts operate at peak efficiency, safeguarding properties and services.
- Asset Protection: Routine inspections can significantly extend the lifespan of culverts, helping avoid costly repairs or replacements in the future. Early detection of issues prevents structural degradation and promotes efficient water flow.
- Compliance: Staying ahead of regulatory requirements is essential for responsible drainage infrastructure management. Consistent inspections help us meet legal standards and uphold safety protocols.
- Environmental Responsibility: Preventing contaminated water from entering natural waterways is imperative. Culvert inspections can mitigate pollution risks and protect the surrounding ecosystem, which is essential for sustainability.

Recent advancements in technology, particularly CCTV drain surveys, have transformed the inspection process. High-resolution cameras enable detailed internal examinations without causing disruptions. These inspections facilitate accurate diagnoses, informed decision-making, and proactive maintenance or repairs.





Cladding

SAS Rope & Rail provides a comprehensive turnkey solution for the tenanted spans of railway viaducts. Our services encompass tenant communication, access scaffolding, cladding works, and thorough examinations, all managed seamlessly under one roof.

We not only recognise the significance of conducting thorough examinations but also understand the importance of fostering strong relationships with tenants and landlords of the businesses operating beneath these structures.

To date, SAS has successfully completed over 100 examinations within these spans, which typically require the removal of cladding, conducting a detailed inspection, and then replacing or reinstating the cladding upon completion.

We prioritise communication with tenants to ensure that the work schedule minimises disruption and aligns with mutually convenient dates. It is common for our team to assist tenants in removing their items and belongings from the arch before we begin work, and we also help them safely return their belongings once the project is complete.

SAS Rope & Rail's teams are equipped to perform comprehensive strip and relining, partial strip work, and full installations from new. This transforms previously unusable brick arches into functional environments for local businesses. Additionally, we offer tailored solutions for arches with extensive fit-outs, such as wine bars, cafes, and offices, ensuring that structural examinations can be conducted while minimising disruption to the businesses below.



Telecoms

At SAS Rope & Rail we are also a well-established supplier to the telecommunications industry, holding all the required company accreditations such as Cellnex, WIG, MBNL, and Arqiva.

We offer a wide array of services to the industry, along with various access methods to facilitate the end goal of improving net coverage, allowing people use the networks for things such as surfing the web, streaming, and keeping loved ones in contact with one and other.

Works carried out by our teams include:

- Strengthening works to the mast and towers to maintain the safety of the structure. This can also be carried out via the use of rope access for those difficult to reach areas. Works include fabrication and installation of such items to the technical drawings.
- Vendor swaps from the current airtime provider to the new, updated one to improve service and signal. This involves removing the older masts, dishes, antennas, cables/power supply. Replacing them with new upgraded versions, including containment from cab to antenna for the new supply to be mounted to.
- Climb down surveys to assess the condition of the asset, complete with findings report and recommendations. This is an essential part of the works that is required to identify areas that required remedial repairs or upgrades.
- Vegetation management of the sites, compounds, and approach to facilitate access for works to be carried out. These works can range from general compound works to removing overhanging limbs, to cleaning large access routes for the larger items of machinery and plant to site such as MEWPS & cranes etc.
- Various ecology surveys of sites prior to works commencing. Report issued following the various surveys.
- Guano removal from site allowing others to work safely within the work site. Plus, many more.



A close-up photograph of a worker in a black long-sleeved shirt and gloves operating a Husqvarna diamond drilling rig. The worker is adjusting a control on the orange and grey machine. The rig is mounted on a vertical track. In the background, a blurred city skyline is visible. The right side of the image has a dark overlay with white text and decorative orange wavy lines.

Core Drilling

Our expert Diamond Drilling team bring over 25 years of experience and unparalleled knowledge to the task. As diamond drilling continues to gain traction across the construction industry, we are committed to mastering this precision technique to deliver exceptional quality and craftsmanship.

With our cutting-edge technology, we provide a cost-effective, all-in-one solution tailored to your needs. In addition to diamond drilling, we offer extensive range of services, including Concrete Cutting and pull-out testing. Choose SAS for reliable expertise and superior results.



Carbon Footprint

SAS Rope and Rail have calculated our Carbon Footprint for 2023 based on the standards defined in the Greenhouse Gas Protocol Accounting and Reporting Standard (GHG Protocol). A Carbon Footprint is an important component for the development of a climate protection strategy. By analysing the carbon footprint, it is possible to identify reduction potentials, develop appropriate measures and define climate protection goals. The report provides an overview of the calculated Scope 1 & 2 emissions for our company's business activities in 2023.

The amount corresponds to:

Scope 1 & 2
(tCO₂eq):

73.38
2023



Emissions from:

182,144

Miles driven by an
average passenger
vehicle



Emissions from:

9.2

Homes' energy use
for one year



Carbon sequestered
by:

1,213

Tree seedlings
grown for 10 years

Client Feedback

XEIAD – Lee Farmer, Examinations Manager

"SAS have been an integral part of XEIAD in the last 2 years to help deliver critical service on the Network Rail Infrastructure. YTD, they have successfully completed 1500 structural examination, to which range from CCTV inspections, confined space, and roped access technique examinations. Their multi-skilled organisation just doesn't provide specialist access examiners. SAS also provide other services to allow for a fully compliant exam. This ranges from de-water/silting to vegetation removal and providing pontoon, scaffold, and safety boats. No job is ever too big for SAS, they always provide a solution to allow for the project to be completed safely and to the contractual specification.

I hope that our working relationship will continue to grow for many years to come."



Sub Agent, SCS Rails – Ben Cox

"We have been lucky to work with Rope & Rail a number of times for inspections of historic masonry and steel structures within the Euston Area. Whilst mainly carrying out pre-condition surveys and inspections to aid design, R&R have carried out reactive surveys to report on condition of structures which are of concern, and such require quick turnaround.. From their input during planning, to on site inspections and report submissions, we have been impressed by the can-do attitude and professionalism shown by Lee and his team throughout. Our designers too, have also commented on the high quality, detail and quick turn around for reports."



Transport For Wales – Karl Gilmore, Rail Infrastructure Director

"Throughout the last 3 years, SAS Rope & Rail has played a significantly important role across various packages of work, supporting the delivery of the Core Valley Lines programme, part of the South Wales Metro.

Contracted to undertake a considerable quantum of roped access tree climbing work, vegetation clearance and management, the provision of in-house ecologists and being able to mobilise in short-order to undertake reactive works.

Throughout this time, the services provided by the SAS Rope & Rail, both at a senior leadership or team/operative level has been of high-quality. Upholding high standards of Health & Safety, works are carried out with a degree of professional and positive interactions with stakeholders, be it other teams across the programme or lineside neighbours.

I would highly-recommend the services provided by SAS Rope & Rail and look forward to engaging in future works together across the Wales portfolio."





ROPE & RAIL LTD

Thank You

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