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Historic 1848 Epsom Racecourse Plan Saved Through Major Conservation Project

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A remarkable hand-coloured plan of Epsom Racecourse dating from 1848 has been rescued from severe deterioration following an extensive conservation project.

The historic document, which provides a detailed record of the racecourse in the mid-19th century, had reached a fragile state. Conservators warned that without intervention valuable information about the history and development of the course could have been lost forever.

A Race Against Time

The plan was prioritised for treatment because of its worsening condition and the fact that much of its detail had become obscured beneath a darkened varnish layer.

Conservators found the document had suffered from multiple forms of damage over the years.

The paper itself was made from machine-produced wood pulp, which is naturally acidic and becomes increasingly brittle as the fibres deteriorate. At some point the plan had been mounted on a linen backing using starch paste, but the paper had begun separating from the fabric. In places, fragments had broken away altogether.

Evidence also suggested the document had previously been stored in damp conditions, leaving mould staining across parts of the surface.

Further damage had been caused by the way the map had originally been displayed. Wooden poles had been attached using nails driven through the paper, leaving rust stains and tears, particularly along the upper edge.

Perhaps most significantly, the entire plan had been coated in a thick glossy varnish which had darkened dramatically over time, concealing much of the image beneath.

Delicate Conservation Work

The first stage of treatment involved removing the remaining wooden pole to prevent further damage during handling.

Conservators then carefully detached the mould-stained linen backing before carrying out extensive surface cleaning on both sides of the document. Throughout the process the plan was supported on woven polyester sheeting to ensure that loose fragments remained safely in place.

Attention then turned to the dark varnish coating.

Specialist tests were undertaken using a range of solvents to identify the safest and most effective method of removal. Once a suitable solvent had been selected, conservators worked section by section to lift the varnish without harming the original inks and pigments.

Using a Japanese paper barrier and a solvent gel, the varnish was gradually drawn away from the surface and transferred onto the paper layer.

The process was compared by conservators to waxing, with the Japanese paper peeled away carrying the dissolved varnish with it.

As the treatment progressed, details hidden for decades began to reappear.

Although some staining remained embedded deep within the paper fibres, the plan’s image and written information became visible once again, making the document accessible for the first time in many years.

Washing and Stabilisation

Following varnish removal, the plan underwent a careful washing process designed to remove any remaining residues.

Once the rinse water ran clear, the paper was treated with a mild alkaline solution to neutralise acidity and slow future deterioration.

The document was then lined with a specially selected Japanese paper backing. Favoured by conservators for its purity, flexibility and exceptional strength, Japanese paper provides long-term support while remaining lightweight and

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unobtrusive.

After several days of drying, missing sections of the original document were filled using handmade paper closely matched in tone and thickness.

Conservators emphasised that the work followed established conservation principles rather than restoration. Repairs remain visible and distinguishable from the original material, ensuring future researchers can identify what is original and what has been added.

All treatments are reversible, with wheat starch paste used as the adhesive. Bleaching treatments, which can brighten paper but may accelerate deterioration over time, were deliberately avoided.

Preserved for Future Generations

Once fully dried, trimmed and stabilised, the restored plan was placed within an archival polyester sleeve and transferred to environmentally controlled strongroom storage.

The conservation team believes that without intervention the plan would have continued to darken, weaken and eventually disintegrate.

Instead, this important piece of Epsom's racing heritage has been secured for future generations, preserving a unique snapshot of the racecourse as it appeared nearly 180 years ago.

The conservation project not only saved the physical document but also revealed historical information that had been hidden beneath layers of damage and ageing for many decades.

Surrey County Council– History Centre

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