



# SAMI SOLUTIONS

## Hot In-Place Asphalt Recycling

### Bankstown Council



Hot In-Place Asphalt Recycling Solution No. 3

# HIPAR & Reclamite pay off for Bankstown Council



**SAMI's Chris Rootsey (right) with Bankstown Council Mayor Kevin Hill.**

Two innovative and cost effective road maintenance technologies — Hot In-Place Asphalt Recycling (HIPAR) and Reclamite — have recently been used to great effect by Bankstown Council in Sydney.

Faced with milling and re-sheeting around 20,000 m<sup>2</sup> of asphalt pavement on two major roads in its extensive roads network — Tower Street & Picnic Point Road — the Council decided to trial SAMI's HIPAR process.

This resulted in a direct cost

saving of more than \$35,000 and a number of other benefits associated with the technology.

Commenting on the venture, the Council's Assets Manager — City Roads & Infrastructure, Rowan Morrison, said: "Milling off and throwing away the existing asphalt surface creates a waste disposal problem.

"A major attraction of the HIPAR process is that you are able to completely reuse the existing asphalt and only a small amount of

new material and some specially formulated bitumen rejuvenating agents are required to restore the road surface.

"As such, it is an environmentally-friendly system which offers the added bonus of being quicker and less expensive than alternative road rehabilitation techniques."

Hot In-Place Asphalt Recycling is carried out by a mobile recycling unit which heats, removes, modifies, relays and partially compacts the asphalt surface in a single pass.



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The result is a recycled road section which exhibits the same properties as a new asphalt pavement and can be immediately opened to traffic.

The two major roads treated with the HIPAR process were Tower Street and Picnic Point Road. Because only the travelling lanes of both roads were in need of rehabilitation, the HIPAR paver recycled the road surface in two 4 m wide passes, which meant one side of the road could be kept open to traffic at all times.

The 1.5-2 m wide shoulders, which are mostly used for parking and were still in reasonable condition, were rehabilitated using another system — SAMI's Reclamite — a bitumen rejuvenator that replenishes the chemical constituents of bitumen which are lost, over time, due to a combination of oxidation and ultra-violet degradation. "We believe the combination of HIPAR and Reclamite, which we used as part of

our annual re-sheet and reseal programme, gave us the optimum road rehabilitation solution for these projects," said the Council's Acting Construction Contracts Engineer, Graham Schultz.

"As well as providing the Council with a very cost-effective means of rehabilitation, the nature of the two processes meant that we were also able to minimise disruption and inconvenience to road users and residents.

"In fact, the response from residents was fantastic. In particular, they were very enthusiastic about the environmental features of the HIPAR process."

The success of the HIPAR projects soon saw the proc-

ess being selected for a further three road rehabilitation projects in Bankstown, again totalling around 20,000 m<sup>2</sup>. One of these projects involved recycling a very heavily patched section of asphalt pavement on Queen Street, a road which Graham Schultz thought would be a major test of the HIPAR process' capabilities.

"More than 50% of the road had been extensively patched over the years and we were not sure whether or not HIPAR would be as successful on a surface that was in such a bad condition. However, once again the quality of the recycled surface was excellent," he said. "Overall, we are very pleased with the success of the HIPAR projects.

"We will continue to monitor the condition of the recycled pavements and, assuming they perform as expected, it is likely that HIPAR will become one of our preferred methods of road rehabilitation in future years."



**The shoulders, which are mostly used for parking and were still in good condition, were treated with SAMI's bitumen rejuvenator, Reclamite.**



For further information on any of the products featured in this Case Study or any of SAMI's other specialist road maintenance products and services, please contact:  
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