



CASE STUDY

SHELL EASINGTON SERVICES



Our client procured the services of petrochem specialists OUTCO to carry out major asphalt repair works to the existing and highly deteriorated HGV parking area of the service station at Easington East. The service station itself is situated on the highly trafficked A19 south of Newcastle-Upon-Tyne.

OVERVIEW

AREA

1,900m²

AREAS

HGV Parking area

DURATION

9 days

SPACES

13 parking spaces

MATERIALS

HRA asphalt
Thermoplastic
Marking

SERVICES

Surfacing
Line Marking

Our client called upon NMC to use our experience within the petrochem sector and surfacing expertise to quickly restore their HGV parking area at the busy site on the A19.

The service area receives a large disproportionate number of vehicles entering the site during rush hour periods but also kept steady throughout the day. As such NMC proposed a plan that would keep the station open for the duration of the works which totalled nine days in all, this in turn would mean no trading loss or disruption to the service station operators as a business after the initial shutdown for nine hours on the first Sunday night.

Works also included were a small quantity of minor surfacing work on the PFS exit lane which required a full station shut down, this also required close liaison with Highways England regarding a lane closure which in turn facilitated a safe and effective delivery of these vital time-pressured works on the initial commencement of the project.

Key facts of the projected facts of the project: 1500m² of planing and resurfacing at 250mm depth, 400m² of planing and

resurfacing at 40mm depth, 150 linear meters of new kerbing and topsoil, Full Thermoplastic lining to entire site

On the initial site scope NMC identified that there were various factors that had led to such a dramatic deterioration in the existing lower and upper layers present throughout the site. One of the main factors in the HGV parking area, which had become a health and safety concern, was that there was an insufficient layer depth and that the mass rutting and potholing had only been compounded and exasperated by the frequent and highly destructive turning forces of laden and unladen heavy goods vehicles.

With this in mind the advice was given that a full reconstruction of all layers starting with the grading and compaction of the existing porous limestone subgrade be undertaken, subsequent to this a range of high density asphalts were to be used to give the area the best possible design life and usability for the customers and client alike.



Delivery

The project delivery consisted of three separate elements, these were to run consecutively and consisted of: The project delivery consisted of three separate elements, these were to run consecutively and consisted of:

Civils Element – 2 days

Surfacing Element – 4 days

NMC advised and specified a range of material from one of our trusted supply partners, Hanson Aggregates. The natural stone source from this location has a high basalt concentration which gives excellent wear characteristics, a natural choice for this site in particular. During the surfacing operations, the grades of asphalt used were all design mixes with the non-inclusion of reclaimed material for added durability. These included AC32 HDBM 40/60 Des, AC20 HDM 40/60 Des, Tufflex 10 HH SCS and Tuffpave 10 HH SCS. During the surface course installation NMC were audited by the Hanson technical team to become approved for the installation of Hanson SCS materials, the audit went very well with NMC being awarded the accreditation, on top of this NMC also independently took samples for binder and grading analysis of all materials on site. The samples were tested and certified as being within parameters.

In the run-up to the project NMC engaged with the client at the earliest opportunity to onboard with their own specific safety systems which included additional safety passports on top of UK PIA accreditation which NMC had already gained, also

that the site and project management team gained L3 status under the clients which authorize the issuing and holding of petrochemical permits across a huge variety of sites and installations with the Shell organization on a global basis.

During the project cycle NMC were subject to two audits, one from our client and the other from Hanson Aggregates.

The client audit took the form of an L1 (senior asset management) coming to site to assess all standards on site, but specifically the safety and well being of all employees on site and their understanding and carrying out of Shells own life-saving rules.

The audit went fantastically well with NMC scoring a massive 105/108 (97%), the comments further made were “a pleasure to audit” and “the best audit carried out all year”. This is first-hand testament of the team culture that NMC have between all tiers of employees and the true dedication of being “Outside Experts”.

This site presented NMC with an opportunity to showcase its abilities, the opportunities were not only met but exceeded our client's expectations. The NMC team assessed, advised, and delivered a successful project and customer experience to Vinci/Shell throughout.

We have gained an excellent audit result which will stand us in good stead for future project allocations with Shell, the site worked in tandem with NMC and our program of works to achieve the goals and objectives set out at the onset.