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SITE DECOMMISSIONING

SHELL BEVERLY HILLS AUTOPORT

STONEY CREEK ROAD

BEVERLY HILLS, NSW

MAY 1997

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EASTERN REGION

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DOCUMENT REVIEW AND APPROVAL RECORD

Document Title: Site Decommissioning & Validation Report -Shell Beverly Hills

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Approved For: ☐ Review ☐ Design Input ☐ Information ☒ Issue

Additional Comments if any:

11. SUMMARY AND CONCLUSIONS

Based on results obtained during the course of this assessment, the following conclusions are made:

- Decommissioning activities have resulted in the removal of all underground storage tanks (USTs) and associated pipework from the captioned site. Subsequently, all hydrocarbon impacted soils and, in some areas, overlying clean materials were excavated and stockpiled on site. Approximately 3800m^3 of soil was excavated during decommissioning works.

- Approximately 200m^3 of clean filling was required to be brought on site in order to stabilise the site excavation during soil chasing works. All imported filling was validated in accordance with NSW EPA guidelines prior to being instated on site.

- Validation samples collected from the walls and floors of all final site excavations (at the conclusion of soil chasing works) were reported to contain concentrations of TRH and BTEX below the current NSW EPA criteria for sensitive land use.

- Lead was reported at a concentration exceeding the NSW EPA sensitive land use criteria in 1 pit validation sample only, collected in the site's north western quadrant. (640mg/kg of lead as opposed to a guideline threshold of 300mg/kg). This incidence of elevated lead is highly localised, and is not associated with any other apparent contamination. On this basis, the potential environmental and human health risks posed by the reported lead concentration are considered negligible.

- All excavated soils were stockpiled on site and moved or turned periodically to facilitate the natural biodegradation and volatilisation of hydrocarbon contaminants. Validation sampling of all stockpiled materials was undertaken once field screening indicated volatile organic concentrations in the stockpiled materials had been generally attenuated to a degree likely to be below NSW EPA sensitive land use criteria. Validation of stockpiled materials was undertaken at a sampling density in general accordance with that specified by the NSW EPA.

- Results of stockpile validation sampling indicated, to within a 95% confidence interval, that the average TRH, BTEX and lead concentrations within stockpiled materials were below thresholds defined by the NSW EPA for sensitive land use.

- All validated stockpiles were subsequently thoroughly mixed, and backfilled into the existing excavations at 98% standard compaction (+/- 2% optimum moisture content).

- Grid validation of the remaining (unexcavated) site areas indicates that in general, concentrations of all analytes (TRH, BTEX and lead) are below the respective current NSW EPA criterias. A toluene concentration marginally above NSW EPA criteria (2.7mg/kg as opposed to a guideline of 1.4mg/kg) was reported in 1 sample (GV2), collected at a depth of 2.6m in the north eastern quadrant of the site. The reported toluene concentration is well below the NSW EPA Human Health based criteria of

130mg/kg, and is not considered to pose a potential risk, nor warrant further investigative or remedial works.

- Based on the scope of works undertaken, CMPS&F consider the site to have been validated to within the stated criteria for sensitive land use (ie: residential), as defined by the NSW EPA (1994).