

29 March 2010



Mr Peter Head  
General Manager  
Leichhardt Municipal Council  
PO Box 45  
LEICHHARDT NSW 2040



Dear Mr Head

**RE: CALLAN PARK**

As agreed with Leichhardt Council, in late 2009 Sydney Harbour Foreshore Authority commissioned Ryall Environmental Pty Ltd to conduct an environmental assessment around some sections of Callan Park to be transferred to Council.

Ryall has completed the assessment and has concluded that although there was some contamination on the site it did not present an immediate public health risk. A copy of Ryall's report, recommending protective measures to deal with the contamination, is attached for your information.

The Authority has engaged remediation specialists E3 Consulting to undertake the first stage of recommended works. These involve removing and disposing of an underground storage tank and associated material and reinstating the excavated surface with turf.

The works are expected to begin during April 2010 and take a month to complete. The Authority will notify all relevant stakeholders before the works begin.

The Authority will also tender for suitable contractors to undertake the next stage of works, to cover parts of the Iron Cove foreshore with clean fill. This work will be carried out in conjunction with construction of a footpath and separate bicycle path along the foreshore between Glover Street and King George Park to complete paving of the Bay Run.

The Authority has also engaged Ryall Environmental Pty Ltd to develop an environmental management plan to manage contaminated areas in the future in accordance with the report recommendations.

Yours sincerely

**Egle Garrick**  
A/Chief Executive Officer

## 8 CONCLUSIONS AND RECOMMENDATIONS

### 8.1 CONCLUSIONS

#### 8.1.1 Fill materials

The focused ESA identified the presence of contaminants within fill materials at depth in Areas A, C, E, F and G. However, the concentrations of contaminants were generally low, except within Areas C and F where high concentrations of PAHs were identified. However, as the focused ESA program was of limited scope, it is possible that higher concentrations of contaminants may be present at depth, but because the results of the focused ESA program were generally similar to results reported by Coffey, it is considered unlikely that significant volumes of grossly contaminated materials would be present at depth.

#### 8.1.2 Surface soils

Surface soils across the Site show evidence of impact by chemicals of concern, especially PAHs in ash materials, but the concentrations overall met the site criteria for protection of the health of users of the Site. The presence of an effective cover over most of the eight areas of principal environmental concern results in no significant risk being posed to users of the Site whilst the cover remains in place.

#### 8.1.3 Groundwater

Groundwater in shallow fill materials was not widely present across the Site and even in the areas of deeper filling, Areas E (Repatriation Oval) and F (Lower Glover Street Oval), only small volumes of groundwater were present and these filled areas appeared to be characterised by low hydraulic conductivity.

The small volume of groundwater deep within the landfill on Area F (Lower Glover Street Oval) was impacted by a number of chemicals of concern, but arsenic at only one location was the only significant impact identified. At the location of impacted groundwater, an elevated concentration of arsenic was reported in the fill material, but significantly elevated concentrations of arsenic were not reported from other locations within the landfill. It is concluded in consideration of the inferred low hydraulic conductivity of the materials in the landfill, significant contamination of groundwater would not occur within the landfill and would not migrate from the landfill.

It is expected that groundwater within shallow fill materials across the Site would be present following periods of persistent rainfall, but in consideration of the

results reported for contaminants in the fill materials and the quality of groundwater reported in this focused ESA, significant contamination of shallow groundwater would not be expected on the Site.

It is expected that permanent groundwater would be present within the sandstone bedrock, but that the concentrations and distribution of contaminants identified in the focused ESA would not give rise to contamination of the permanent groundwater.

#### **8.1.4 USTs**

The UST containing fuel identified within Area A is required to be decommissioned according to the requirements of the Underground Petroleum Storage Systems Regulation by removing the fuel and either excavating and removing the UST or filling it with an inert substance.

No further action is required to be taken with respect to the UST within Area A that has been decommissioned.

## **8.2 RECOMMENDATIONS**

### **8.2.1 Short-term measure**

The measure that that is required to be implemented in the short-term to protect the health of users of the Site and the environment is:

- Decommissioning of the UST in Area A that contains fuel.

It is recommended that the UST be decommissioned by removal of the fuel and removal and excavation of the UST and disposal of any contaminated soil around the UST to a landfill licensed to receive the appropriate class of waste.

This measure is recommended to be implemented within one month.

### **8.2.2 Medium-term measures**

The measures that that are required to be implemented in the medium-term to protect the health of users of the Site and the environment are:

- Covering with clean material the parts of Areas A (Maintenance Building) and G (Iron Cove Foreshore) where fill materials were identified at the surface to have elevated concentrations of chemicals of concern;

- Maintenance of the surface of the Site so that users do not have access to the fill materials at depth;
- Development of a Long-term Environmental Management Plan, as set out below.

These measures are recommended to be implemented within 6 months.

### 8.2.3 Long-term measures

A Long-term Environmental Management Plan is required to be implemented across the Callan Park site to protect the health of users of the Site and the environment by:

- Providing guidance for maintenance of an uncontaminated surface cover comprising pavements, building footprints, grass or clean soil across the surface of the Site; and
- Providing guidance to workers involved in intrusive earthworks on the Site with respect to occupational health and safety, management and disposal of contaminated or potentially contaminated materials and reinstatement of excavated areas.

The Long-term Environmental Management Plan is recommended to be developed within 6 months and implemented in perpetuity.

## 9 REFERENCES

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