

Water Quality Monitoring Report October 2013

Newcastle Cruising Yacht Club

File No 0-950 Water Quality Monitoring

Prepared for Newcastle Cruising Yacht Club Limited
Suite 9
NCYC Commercial Centre
91 Hannell Street
Wickham 2293

By **PPI Services Pty. Limited**
ABN 47 003 693 123



Report Certification:

PPI Services Pty Ltd has prepared the accompanying report as at 16th October 2013 (the Report) for Newcastle Cruising Yacht Club (the Client) at the request of and exclusively for the use and benefit of the Client and/or its Directors.

Under the terms of its engagement, PPI Services Pty Ltd has examined the various environmental practices of project, and has relied on information provided by the Client and the on-site observations of its personnel. The qualifications of personnel involved in the preparation of this Report have previously been supplied to the Client.

This Report has been prepared in accordance with generally accepted practices using standards of care and diligence normally practiced by recognized consulting firms performing services of a similar nature. PPI Services Pty Ltd is not responsible for the accuracy of information provided by other individuals or entities that is used in this Report. This Report presents our professional judgment based upon information provided and findings identified in this Report and interpretation of such data based upon our experience and background, and no warranty, either express or implied, is made. The conclusions presented are based upon the current regulatory climate and may require revision if future regulatory changes occur.

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The Assessment has been conducted in accordance with the best practices available at the time and considers the identified hazards determined. Should any further hazards be identified at a later date, it is suggested that the processes be re-examined and this report updated.

I hereby certify that this report includes to findings and recommendations of the assessment process.

Martin Westphal
PPI Services Pty Ltd

Date: 16 October 2013

Contact details:

Martin Westphal
PPI Services Pty Ltd
PO Box 404

WALLSEND NSW 2285

Telephone: 02 4950 2023

Facsimile: 02 4950 2169

Email: martin@ppiservices.com.au



Introduction

PPI Services were commissioned by Newcastle Cruising Yacht Club Limited to implement a Water Quality Monitoring Programme during construction and operational phases of the Newcastle Cruising Yacht Club Marina - Lot 103, Hannell Street, Wickham. The water quality-monitoring programme was designed to monitor and assess potential impacts of Marina construction and operation activities upon the quality of receiving harbour waters.

The Site Licence (EPL 11396) was varied in accordance with the 'Draft Notice of Licence Variation Newcastle Cruising Yacht Club (NCYC) EPL 11396', dated 28th August 2008. The revised conditions involve a visual assessment/interface probe test for the presence of hydrocarbons at two existing groundwater wells (GW1 and GW4) every six months. Should positive results for the presence of hydrocarbons be obtained further laboratory analysis and testing will be required within 30 days of the initial discovery.

A third existing groundwater well, GW2, was also sampled but is not required under current EPA licence conditions. Results for this well are included for informational purposes only.

Methodology

Groundwater sampling of GW1, GW2 and GW4 was carried out with an interface probe test of each well and confirmed with a visual assessment of a water sample drawn from each well by means of a 1 litre disposable bailer.

Sample Date 09 October 2013

Sample Locations as Per **Figure 1**

Results

Results for this sampling event are presented below:

GW1: Water at 2.26 metres and well bottom at 4.20 metres
pH 6.9
No hydrocarbon detected by interface probe and no visible hydrocarbon observed

GW2: Water at 2.43 metres and well bottom at 4.49 metres
pH 6.3
No hydrocarbon detected by interface probe and no visible hydrocarbon observed

GW4: Water at 2.79 metres and well bottom at 4.80 metres
pH 6.2
No hydrocarbon detected by interface probe and no visible hydrocarbon observed

Discussion

No hydrocarbons were detected in the wells sampled.

All levels were at similar levels of previous monitoring events.

The next monitoring event is scheduled for April 2014.

