

## December 2014 Water Quality Summary Report

**Licence Number: 13336**

**Licensee: Barangaroo Delivery Authority**

**Licensee Address: Lvl 21, 201 Kent Street, Sydney**

**Sampling period: 1-31 December 2014**

**Date provided to Licensee: 14 January 2015**

**Date published: 10 February 2015**

# December 2014 Water Quality Summary Report

## Barangaroo South

This report has been compiled to summarise results of water quality monitoring at Barangaroo South during December 2014 in accordance with [EPL number 13336](#). This data is for samples taken from 1 to 31 December 2014. The data was provided to the Barangaroo Delivery Authority (the Licencee) on 14 January 2015.

Lend Lease conducts water quality monitoring at Barangaroo South to measure water quality and assist the construction team implement appropriate environmental controls on site.

Water quality monitoring is carried out in accordance with all relevant authority and statutory requirements. Ambient monitoring in Darling Harbour measures conductivity, pH, temperature and turbidity.

## Location of water quality monitors

Ambient water quality monitoring devices are positioned at three locations within Darling Harbour as shown below. The location of the water treatment plant discharge point is adjacent to the Nearfield 1 location.



*Approximate locations of water monitoring equipment*

These locations correspond to the following licenced monitoring locations:

Water Discharge Point 1: EPL Point 1 (Monitoring ceased)

Nearfield 1: EPL Point 2

Nearfield 2: EPL Point 3

Background: EPL Point 4

## Monitoring results

During December 2014, there were no exceedances of water quality criteria for ambient monitoring in Darling Harbour.

## Turbidity

Monitoring Parameter	EPL Point 2 (NTU)	EPL Point 3 (NTU)	EPL Point 4 (NTU)
Minimum	1.4	1.5	0.0
Maximum	19.2	7.2	19.8
Mean	2.7	2.4	2.0
<b>Limit</b>	No licence limit, monitoring requirement only		
<b>Number of Exceedences</b>	N/A	N/A	N/A

## Conductivity

Monitoring Parameter	EPL Point 2 (mS/cm)	EPL Point 3 (mS/cm)	EPL Point 4 (mS/cm)
Minimum	46.1	48.3	43.3
Maximum	54.3	51.0	54.0
Mean	51.3	50.0	51.5
<b>Limit</b>	No licence limit, monitoring requirement only		
<b>Number of Exceedences</b>	N/A	N/A	N/A

## pH

Monitoring Parameter	EPL Point 2	EPL Point 3	EPL Point 4
Minimum	7.52	7.64	7.33
Maximum	8.15	8.15	8.02
Mean	7.95	7.99	7.84
<b>Limit</b>	No licence limit, monitoring requirement only		
<b>Number of Exceedences</b>	N/A	N/A	N/A

## Temperature

Monitoring Parameter	EPL Point 2 (°C)	EPL Point 3 (°C)	EPL Point 4 (°C)
Minimum	21.64	21.66	21.63
Maximum	25.16	23.18	24.76
Mean	22.85	22.30	22.95
<b>Limit</b>	No licence limit, monitoring requirement only		
<b>Number of Exceedences</b>	N/A	N/A	N/A

## Frequency

Monitoring Parameter	EPL Point 2	EPL Point 3	EPL Point 4
Monitoring frequency required by licence	Every 15 minutes		
NTU Samples Collected & Analysed *	99.6%	64.1%	98.4%
pH Samples Collected & Analysed *	99.9%	64.1%	99.9%
Conductivity Samples Collected & Analysed *	96.7%	63.6%	78.3%
Temperature Samples Collected & Analysed *	99.9%	64.2%	99.9%

\* Based on the percentage of data recovery for the month

Environment Protection Licence number: 13336

Licencee: Barangaroo Delivery Authority, Level 21, AON/Maritime Trade Towers, 201 Kent Street, Sydney, 2000

These results have been made available in accordance with Environment Protection Authority requirements for publishing pollution monitoring data