



GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16356

Nalco Representative: David Supierz

Laboratory Report:

364472

Date Sampled:

18/Apr/2008

Date Received:

18/Apr/2008

Date Completed:

02/May/2008

WATER ANALYSIS

The sample was analysed as received, the results being as follows:

Sample Taken From: 176 - NC - Booker Bay - CBW

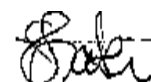
<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	18-Apr-2008 9:20
Depth	In Situ Testing	0.1 m
Conductivity	In Situ Testing	52.1 mS/cm
Dissolved Oxygen	In Situ Testing	7.7 mg/L
pH	In Situ Testing	8.4 pH Units
Salinity	In Situ Testing	33.9 PSS
Temperature	In Situ Testing	19.1 °C
Turbidity	In Situ Testing	4.1 NTU
Ammonia Nitrogen as N	CA13201	0.04 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	2 µg/L
Enterococci	CA22064	468 CFU/100mL
Nitrite as N	CA13202	<0.005 mg/L
Nitrite + Nitrate as N (NO _x)	CA13202	<0.01 mg/L
Ortho-Phosphate (as P)	CA13200	0.01 mg/L
Phosphate (PO ₄) - Total, Unfiltered	CA13200	<0.05 mg/L
Total Kjeldahl Nitrogen	CA13202	0.1 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	0.1 mg/L
Total Suspended Solids (@ 105°C)	CA12119	10 mg/L

Comments

364472 Total Phosphate detection limit raised due to sample matrix
 Ortho Phosphate detection limit raised due to sample matrix

Date: 06/May/2008

Authorised by:



Samantha Fraser, BSc.
 Chemist

**GOSFORD CITY COUNCIL**

NSW, AUSTRALIA

Request Number: D16356**Nalco Representative:** David Supierz**Laboratory Report:**

364473

Date Sampled:

18/Apr/2008

Date Received:

18/Apr/2008

Date Completed:

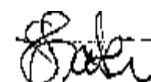
02/May/2008

WATER ANALYSIS

The sample was analysed as received, the results being as follows:

Sample Taken From: 174 - NC - Cockle Bay

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	18-Apr-2008 9:05
Depth	In Situ Testing	0.1 m
Conductivity	In Situ Testing	49.0 mS/cm
Dissolved Oxygen	In Situ Testing	4.6 mg/L
pH	In Situ Testing	8.0 pH Units
Salinity	In Situ Testing	31.6 PSS
Temperature	In Situ Testing	17.8 °C
Turbidity	In Situ Testing	11.4 NTU
Ammonia Nitrogen as N	CA13201	0.09 mg/L
BOD (5-Day)	CA11048	2 mg/L
Chlorophyll a	CA13428	<1 µg/L
Enterococci	CA22064	360 CFU/100mL
Nitrite as N	CA13202	<0.005 mg/L
Nitrite + Nitrate as N (NO _x)	CA13202	0.01 mg/L
Ortho-Phosphate (as P)	CA13200	<0.01 mg/L
Phosphate (PO ₄) - Total, Unfiltered	CA13200	<0.01 mg/L
Total Kjeldahl Nitrogen	CA13202	0.4 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	0.4 mg/L
Total Suspended Solids (@ 105°C)	CA12119	10 mg/L

Comments**Date:** 06/May/2008**Authorised by:**Samantha Fraser, BSc.
Chemist



GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16356

Nalco Representative: David Supierz

Laboratory Report:

364474

Date Sampled:

18/Apr/2008

Date Received:

18/Apr/2008

Date Completed:

06/May/2008

WATER ANALYSIS

The sample was analysed as received, the results being as follows:

Sample Taken From: 221 - NC - Cockrone Lagoon - CLN

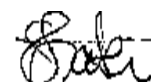
<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling / 1	In Situ Testing	18-Apr-2008 8:40
Depth / 1	In Situ Testing	0.1 m
Conductivity / 1	In Situ Testing	19.5 mS/cm
Dissolved Oxygen / 1	In Situ Testing	9.3 mg/L
pH	In Situ Testing	9.8 pH Units
Salinity / 1	In Situ Testing	11.5 PSS
Temperature / 1	In Situ Testing	18.3 °C
Turbidity / 1	In Situ Testing	11.5 NTU
Ammonia Nitrogen as N	CA13201	0.03 mg/L
Blue Green Algae Analysis Date	EXTERNAL	28-Apr-2008 0:00
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	<1 µg/L
Enterococci	CA22064	90 CFU/100mL
Entrance Condition		Closed
Nitrite as N	CA13202	<0.005 mg/L
Nitrite + Nitrate as N (NO _x)	CA13202	<0.01 mg/L
Ortho-Phosphate (as P)	CA13200	<0.01 mg/L
Phosphate (PO ₄) - Total, Unfiltered	CA13200	<0.01 mg/L
Tide Mark		1.80 m
Total Blue Green Algae	EXTERNAL	80 Cells/mL
Total Kjeldahl Nitrogen	CA13202	0.6 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	0.6 mg/L
Total Suspended Solids (@ 105°C)	CA12119	2 mg/L

Comments

364474 External Analysis by: NATA Accreditation Number: 825. Report number: ES0805553. Repor
01/05/2008

Date: 06/May/2008

Authorised by:



Samantha Fraser, BSc.
Chemist

**GOSFORD CITY COUNCIL**

NSW, AUSTRALIA

Request Number: D16356**Nalco Representative:** David Supierz**Laboratory Report:**

364475

Date Sampled:

18/Apr/2008

Date Received:

18/Apr/2008

Date Completed:

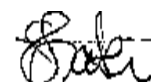
02/May/2008

WATER ANALYSIS

The sample was analysed as received, the results being as follows:

Sample Taken From: 216 - NC - Kincumber Creek Entrance - KCK

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	18-Apr-2008 8:20
Depth	In Situ Testing	0.1 m
Conductivity	In Situ Testing	37.0 mS/cm
Dissolved Oxygen	In Situ Testing	8.7 mg/L
pH	In Situ Testing	8.1 pH Units
Salinity	In Situ Testing	23.2 PSS
Temperature	In Situ Testing	16.5 °C
Turbidity	In Situ Testing	19.9 NTU
Ammonia Nitrogen as N	CA13201	0.07 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	2 µg/L
Enterococci	CA22064	333 CFU/100mL
Nitrite as N	CA13202	<0.005 mg/L
Nitrite + Nitrate as N (NO _x)	CA13202	<0.01 mg/L
Ortho-Phosphate (as P)	CA13200	<0.01 mg/L
Phosphate (PO ₄) - Total, Unfiltered	CA13200	0.01 mg/L
Total Kjeldahl Nitrogen	CA13202	0.4 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	0.4 mg/L
Total Suspended Solids (@ 105°C)	CA12119	9 mg/L

Comments**Date:** 06/May/2008**Authorised by:**Samantha Fraser, BSc.
Chemist



GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16356

Nalco Representative: David Supierz

Laboratory Report:

364476

Date Sampled:

18/Apr/2008

Date Received:

18/Apr/2008

Date Completed:

02/May/2008

WATER ANALYSIS

The sample was analysed as received, the results being as follows:

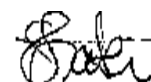
Sample Taken From: 220 - NC - Avoca Lagoon - ALN

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling / 1	In Situ Testing	18-Apr-2008 8:05
Depth / 1	In Situ Testing	0.1 m
Conductivity / 1	In Situ Testing	14.9 mS/cm
Dissolved Oxygen / 1	In Situ Testing	8.7 mg/L
pH	In Situ Testing	8.3 pH Units
Salinity / 1	In Situ Testing	8.6 PSS
Temperature / 1	In Situ Testing	19.0 °C
Turbidity / 1	In Situ Testing	3.4 NTU
Ammonia Nitrogen as N	CA13201	0.08 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	1 µg/L
Enterococci	CA22064	9 CFU/100mL
Entrance Condition		Closed
Nitrite as N	CA13202	<0.005 mg/L
Nitrite + Nitrate as N (NO _x)	CA13202	<0.01 mg/L
Ortho-Phosphate (as P)	CA13200	<0.01 mg/L
Phosphate (PO ₄) - Total, Unfiltered	CA13200	<0.01 mg/L
Total Kjeldahl Nitrogen	CA13202	0.8 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	0.8 mg/L
Total Suspended Solids (@ 105°C)	CA12119	4 mg/L

Comments

Date: 06/May/2008

Authorised by:



Samantha Fraser, BSc.
Chemist



GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16356

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Laboratory Report:

364477

Date Sampled:

18/Apr/2008

Date Received:

18/Apr/2008

Date Completed:

06/May/2008

WATER ANALYSIS

The sample was analysed as received, the results being as follows:

Sample Taken From: 219 - NC - Terrigal Lagoon - TLN

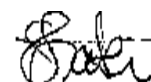
<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	18-Apr-2008 7:50
Depth	In Situ Testing	0.1 m
Conductivity	In Situ Testing	13.7 mS/cm
Dissolved Oxygen	In Situ Testing	6.9 mg/L
pH	In Situ Testing	8.0 pH Units
Salinity	In Situ Testing	7.8 PSS
Temperature	In Situ Testing	18.8 °C
Turbidity	In Situ Testing	13.3 NTU
Ammonia Nitrogen as N	CA13201	0.04 mg/L
Blue Green Algae Analysis Date	EXTERNAL	28-Apr-2008 0:00
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	2 µg/L
Enterococci	CA22064	153 CFU/100mL
Entrance Condition		Closed
Nitrite as N	CA13202	<0.005 mg/L
Nitrite + Nitrate as N (NO _x)	CA13202	0.01 mg/L
Ortho-Phosphate (as P)	CA13200	<0.01 mg/L
Phosphate (PO ₄) - Total, Unfiltered	CA13200	0.01 mg/L
Total Blue Green Algae	EXTERNAL	80 Cells/mL
Total Kjeldahl Nitrogen	CA13202	0.4 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	0.4 mg/L
Total Suspended Solids (@ 105°C)	CA12119	8 mg/L

Comments

364477 External Analysis by: NATA Accreditation Number: 825. Report number: ES0805553. Report date: 01/05/2008

Date: 06/May/2008

Authorised by:



Samantha Fraser, BSc.
Chemist



GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16356

Nalco Representative: David Supierz

Laboratory Report:

364478

Date Sampled:

18/Apr/2008

Date Received:

18/Apr/2008

Date Completed:

02/May/2008

WATER ANALYSIS

The sample was analysed as received, the results being as follows:

Sample Taken From: 218 - NC - Wamberal Lagoon - WLN

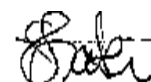
<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	18-Apr-2008 7:40
Depth	In Situ Testing	0.1 m
Conductivity	In Situ Testing	8.3 mS/cm
Dissolved Oxygen	In Situ Testing	8.9 mg/L
pH	In Situ Testing	8.1 pH Units
Salinity	In Situ Testing	4.6 PSS
Temperature	In Situ Testing	18.4 °C
Turbidity	In Situ Testing	6.1 NTU
Ammonia Nitrogen as N	CA13201	0.04 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	1 µg/L
Enterococci	CA22064	36 CFU/100mL
Entrance Condition		Closed
Nitrite as N	CA13202	<0.005 mg/L
Nitrite + Nitrate as N (NO _x)	CA13202	<0.01 mg/L
Ortho-Phosphate (as P)	CA13200	<0.01 mg/L
Phosphate (PO ₄) - Total, Unfiltered	CA13200	<0.05 mg/L
Tide Mark		2.50 m
Total Kjeldahl Nitrogen	CA13202	0.6 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	0.6 mg/L
Total Suspended Solids (@ 105°C)	CA12119	3 mg/L

Comments

364478 Total Phosphate detection limit raised due to sample matrix
 Ortho Phosphate detection limit raised due to sample matrix

Date: 06/May/2008

Authorised by:



Samantha Fraser, BSc.
 Chemist



GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16356

Nalco Representative: David Supierz

Laboratory Report:

364479

Date Sampled:

18/Apr/2008

Date Received:

18/Apr/2008

Date Completed:

02/May/2008

WATER ANALYSIS

The sample was analysed as received, the results being as follows:

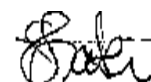
Sample Taken From: 177 - NC - Erina Creek - ECK

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	18-Apr-2008 7:20
Depth	In Situ Testing	0.1 m
Conductivity	In Situ Testing	14.2 mS/cm
Dissolved Oxygen	In Situ Testing	8.8 mg/L
pH	In Situ Testing	7.7 pH Units
Salinity	In Situ Testing	8.1 PSS
Temperature	In Situ Testing	16.6 °C
Turbidity	In Situ Testing	11.5 NTU
Ammonia Nitrogen as N	CA13201	0.39 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	1 µg/L
Enterococci	CA22064	919 CFU/100mL
Nitrite as N	CA13202	0.012 mg/L
Nitrite + Nitrate as N (NO _x)	CA13202	0.09 mg/L
Ortho-Phosphate (as P)	CA13200	0.01 mg/L
Phosphate (PO ₄) - Total, Unfiltered	CA13200	0.03 mg/L
Total Kjeldahl Nitrogen	CA13202	0.4 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	0.5 mg/L
Total Suspended Solids (@ 105°C)	CA12119	8 mg/L

Comments

Date: 06/May/2008

Authorised by:



Samantha Fraser, BSc.
Chemist



GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16356

Nalco Representative: David Supierz

Laboratory Report:

364480

Date Sampled:

18/Apr/2008

Date Received:

18/Apr/2008

Date Completed:

02/May/2008

WATER ANALYSIS

The sample was analysed as received, the results being as follows:

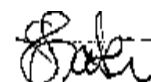
Sample Taken From: 175 - NC - Narara Creek Entrance - NCY

<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	18-Apr-2008 7:00
Depth	In Situ Testing	0.1 m
Conductivity	In Situ Testing	27.7 mS/cm
Dissolved Oxygen	In Situ Testing	5.1 mg/L
pH	In Situ Testing	7.4 pH Units
Salinity	In Situ Testing	16.9 PSS
Temperature	In Situ Testing	18.3 °C
Turbidity	In Situ Testing	8.2 NTU
Ammonia Nitrogen as N	CA13201	0.10 mg/L
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	2 µg/L
Enterococci	CA22064	6727 CFU/100mL
Nitrite as N	CA13202	<0.005 mg/L
Nitrite + Nitrate as N (NOx)	CA13202	0.05 mg/L
Ortho-Phosphate (as P)	CA13200	<0.01 mg/L
Phosphate (PO4) - Total, Unfiltered	CA13200	0.03 mg/L
Total Kjeldahl Nitrogen	CA13202	0.4 mg/L
Total Nitrogen as N (TKN + NOx)	CA11130	0.5 mg/L
Total Suspended Solids (@ 105°C)	CA12119	21 mg/L

Comments

Date: 06/May/2008

Authorised by:



Samantha Fraser, BSc.
Chemist



GOSFORD CITY COUNCIL

NSW, AUSTRALIA

Request Number: D16356

Nalco Representative: David Supierz

Laboratory Report:

364481

Date Sampled:

18/Apr/2008

Date Received:

18/Apr/2008

Date Completed:

06/May/2008

WATER ANALYSIS

The sample was analysed as received, the results being as follows:

Sample Taken From: 217 - NC - Woy Woy Creek - WBY

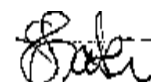
<u>Analyte</u>	<u>Test Method</u>	<u>Result</u>
Date and Time of Sampling	In Situ Testing	18-Apr-2008 9:30
Depth	In Situ Testing	0.1 m
Conductivity	In Situ Testing	49.2 mS/cm
Dissolved Oxygen	In Situ Testing	7.3 mg/L
pH	In Situ Testing	8.3 pH Units
Salinity	In Situ Testing	31.8 PSS
Temperature	In Situ Testing	19.0 °C
Turbidity	In Situ Testing	5.4 NTU
Ammonia Nitrogen as N	CA13201	0.05 mg/L
Blue Green Algae Analysis Date	EXTERNAL	28-Apr-2008 0:00
BOD (5-Day)	CA11048	<2 mg/L
Chlorophyll a	CA13428	6 µg/L
Enterococci	CA22064	63 CFU/100mL
Nitrite as N	CA13202	<0.005 mg/L
Nitrite + Nitrate as N (NO _x)	CA13202	<0.01 mg/L
Ortho-Phosphate (as P)	CA13200	0.01 mg/L
Phosphate (PO ₄) - Total, Unfiltered	CA13200	0.03 mg/L
Total Blue Green Algae	EXTERNAL	280 Cells/mL
Total Kjeldahl Nitrogen	CA13202	0.2 mg/L
Total Nitrogen as N (TKN + NO _x)	CA11130	0.2 mg/L
Total Suspended Solids (@ 105°C)	CA12119	42 mg/L

Comments

364481 External Analysis by: NATA Accreditation Number: 825. Report number: ES0805553. Repor
01/05/2008

Date: 06/May/2008

Authorised by:



Samantha Fraser, BSc.
Chemist