



# Centro de Biologia Experimental Oceanus Ltda

## Laboratory of water analyses

REG.INEA:UN015590/55.11.10 CCL N°IN018913  
CNPJ 28383198/0001-59. INSC. MUN. 313818-6 Almirante Cochrane street, 37, Tijuca, CEP 20550-040  
- Rio de Janeiro, RJ, Tel-Fax- (55 - 21) 2567-0819 / 2567-3871

### CERTIFICATION OF MEASUREMENT FOR WATER'S QUALITY

N° 67408

ESTABLISHMENT'S DATA	
<b>CORPORATE NAME:</b> C & C TECHNOLOGIES DO BRASIL LTDA	
<b>NICKNAME:</b> C & C TECHNOLOGIES	
<b>ADDRESS:</b> MAURÍCIO SILVA TELES STREET, 95 / 230	
<b>NEIGHBORHOOD:</b> BARRA DA TIJUCA	<b>DISTRICT:</b> RJ/RJ
<b>CITY:</b> RIO DE JANEIRO	<b>CEP:</b>
<b>TELEPHONE:</b> (21) 2408-6006	<b>FAX:</b>

DATA SAMPLE
<b>SHIP:</b> RIG SUPPORTER
<b>HARBOR:</b> NITSHORE

SAMPLE DATA	
<b>SAMPLE ORIGIN:</b> TRATED WATER	
<b>COLLECTION POINT:</b> GALLEY	
<b>COLLECTION RESPONSABLE NAME:</b> HAMILTON BARBOSA	<b>VOLUME:</b> 1100mL
<b>SAMPLING HOUR:</b> 13:25	<b>SAMPLING DATE:</b> 02.06.13
<b>ARRIVAL HOUR IN LABORATORY:</b> 17:50	<b>ARRIVAL DATE IN LABORATORY:</b> 02.06.13

ANALYTICAL RESEULTS OF THE SAMPLE				
Physico-chemical Analysis				
Parameters	Unit	Results <sup>1</sup>	MVA <sup>2-3</sup>	QL
pH	-	6,44	6,0 – 9,5	-
Residual Chlorine(Cl <sub>2</sub> )	mg/L	< 0,01	0,2 – 5,0	0,01
Total Iron (Fe)	mg/L	0,402	0,3	0,047
Chloride	mg/L	100,3	250	0,1
Total Alkalinity	mg/L	3,0	-	2

ADOPTED METHODS
<b>Physical and Chemical Analyses:</b> pH: SMEWW 4500 H B – Eletrometric Method; Residual Chlorine: SMEWW 4500 G – Colorimetric Method; Iron: SMEWW 3500 Fe – Phenanthroline Method; Chloride: SMEWW 4500 - Chloride; Alkalinity: SMEWW 2320 B – Titration Method.



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### REFERENCES

- 1- Officers: MS n<sup>o</sup> 2914 ANVISA of Health Department of 12<sup>th</sup> December, 2011. Standard of water potability destined to the human consumption.
- 2- Analytical methodology: Standard Methods for Examination of Water and Wastewater 20th Edition – American Public Health Association – APHA.
- 3- Agriculture Department. National Secretariat of Farming Defense. Methods for Control of Products of Animal Origin and its ingredients. II Methods Physical and Chemical, 1981.

### OBSERVATIONS

#### **SUBTITLE:**

- 1- Collected water referring results.
- 2- N<sup>o</sup> 2914 ANVISA/MS limits
- 3 - MVA: Maximum value allowed

QL: Quantification limit  
NUT – Unit of turbidity

- Note 1: These results restrict only the analyzed water.  
Note 2: This report can only be reproduced if complete.  
Note 3: The sample's collection follows the described procedures in POP COL – 001.  
Note 4: The sample data provided are the responsibility of the applicant.

### ANALYSES FINDING

**The analyzed water is not in the limits established for MS N.<sup>o</sup> 2914 ANVISA**

Rio de Janeiro, February 18<sup>th</sup>, 2013.

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**PhD Ronaldo Leão**  
Technical responsible  
CRBio-02339/85