



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° 69320

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

DATA SAMPLE
SHIP: RIG SUPPORTER

SAMPLE DATA	
SAMPLE ORIGIN: TRATED WATER	
COLLECTION POINT: KITCHEN	
COLLECTION RESPONSABLE NAME: THE APPLICANT	VOLUME: 1600 mL
SAMPLING HOUR: NOT REPORTED	SAMPLING DATE: 07.10.13
ARRIVAL HOUR IN LABORATORY: 12:40	ARRIVAL DATE IN LABORATORY: 07.11.13

ANALYTICAL RESEULTS OF THE SAMPLE				
Physico-chemical Analysis				
Parameters	Unit	Results ¹	MVA ²⁻³	QL
pH	-	6,21	6,0 – 9,5	-
Residual Chlorine(Cl ₂)	mg/L	0,15	0,2 – 5,0	0,01
Total Iron (Fe)	mg/L	0,431	0,3	0,047
Chloride	mg/L	131,71	250	0,1
Total Alkalinity	mg/L	3,15	-	2

ADOPTED METHODS
Physical and Chemical Analyses: 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° 2914 ANVISA of Health Department of 12th 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° 2914 ANVISA/MS limits
- 3 - MVA: Maximum value allowed

QL: Quantification limit

- Note 1: These results restrict only the analyzed water.
Note 2: This report can only be reproduced if complete.
Note 3: It is the applicant's responsibility held collection.
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.º 2914 ANVISA

Rio de Janeiro, July 17th, 2013.

PhD Ronaldo Leão
Technical responsible
CRBio-02339/85