Centro de Biologia Experimental Oceanus Ltda
Laboratory of water analyses

REG.INEA:UN015590/55.11.10 CCL NºIN018913
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^0 67842

ESTABLISHMENT´S DATA	
CORPORATE NAME: C & C TECHNOLOGIES DO BRASIL LTDA	
NICKNAME: C & C TECHNOLOGIES	
ANDRESS: 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
HARBOR: NITSHORE

SAMPLE DATA	
SAMPLE ORIGIN: TRATED WATER	
COLLECTION POINT: MESS ROOM	
COLLECTION RESPONSABLE NAME: JULIA RAMALHO	**VOLUME:** 500 mL
SAMPLING HOUR: 16:30	**SAMPLING DATE:** 03.06.13
ARRIVAL HOUR IN LABORATORY: 15:00	**ARRIVAL DATE IN LABORATORY:** 03.07.13

ANALYTICAL RESEULTS OF THE SAMPLE

Physico-chemical Analysis

Parameters	Unit	Results[1]	MVA[2-3]	QL
pH	-	6,4	6,0 – 9,5	-
Residual Chlorine(Cl2)	mg/L	< 0,01	0,2 – 5,0	0,01
Total Iron (Fe)	mg/L	< 0,047	0,3	0,047
Chloride	mg/L	120,8	250	0,1
Total Alkalinity	mg/L	3	-	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^{0} 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 Departament. 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- Nº 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: 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 in the limits established for MS N.^{0} 2914 ANVISA

Rio de Janeiro, March 13 th, 2013.

PhD Ronaldo Leão
Technical responsible
CRBio-02339/85