



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

Nº 68551

ESTABLISHMENT INFORMATION

CORPORATE NAME: C & C TECHNOLOGIES DO BRASIL LTDA	
NICKNAME: C & C TECHNOLOGIES	
ADDRESS: AV. DAS AMÉRICAS, 11889, SALA 301	
NEIGHBORHOOD: BARRA DA TIJUCA	DISTRICT: RJ/RJ
CITY: RIO DE JANEIRO	CEP: 22793-082
TELEPHONE: (21) 2499-9509	CNPJ/CPF: 04.813.778/0001-70

VESSEL INFORMATION

SHIP: MARUJO DE FERRO
HARBOR: SILA SHIRPTEC

SAMPLE DATA

SAMPLE SOURCE: TRATED WATER	
SAMPLING POINT: MAIN TANK	
SAMPLE COLLECTOR: DEBORA GABRIEL	VOLUME: 600 mL
TIME OF COLLECTION: 14:15	DATE OF COLLECTION: 05.06.13
ARRIVAL TIME: 15:30	ARRIVAL DATE: 05.06.13

ANALYTICAL RESULTS OF THE SAMPLE

Microbiological Analysis				
Parameters	Unit	Results ¹	MVA ²⁻³	QL
Coliform count	MPN/100mL	< 1,1	Absence	1,1
Fecal Coliform	MPN/100mL	< 1,1	Absence	1,1
<i>Escherichia coli</i>	MPN/100mL	< 1,1	Absence	1,1
Heterotrophic Bacteria	CFU/mL	< 1	500	1

ADOPTED METHODS

Microbiological Examination:

Coliform Count: SMEWW 9221 – Multiple-tube Fermentation Technique for Members of the Coliform group;
Fecal Coliform: SMEWW 9221 – Multiple-tube Fermentation Technique;
Escherichia coli: SMEWW 9221;
Heterotrophic Bacteria: SMEWW 9215 C.



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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
MPN – Most Probable Number
CFU - colony forming units

- Note 1: These results are only for analyzed water.
Note 2: This report can only be reproduced if complete.
Note 3: The collection procedure follows the described procedures in POP COL – 001.
Note 4: The sample information were provided by the applicant.

ANALYSES FINDING

The analyzed water is in the limits established for MS N.º 2914 ANVISA

Rio de Janeiro, May 09th, 2013.

PhD Ronaldo Leão
Technical responsible
CRBio-02339/85