

Your C.O.C. #: 22089201, 220892-01-01

Attention: Marcus Pfeil

 Savarin Springs Inc
 1575 Strasburg Rd
 Kitchener, ON
 N2R 1K2

Report Date: 2010/11/16
CERTIFICATE OF ANALYSIS
MAXXAM JOB #: B0G1652
Received: 2010/11/10, 13:13

 Sample Matrix: Water
 # Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Alkalinity	2	N/A	2010/11/11	CAM SOP-00448	SM 2320B
Alkalinity	1	N/A	2010/11/13	CAM SOP-00448	SM 2320B
Carbonate, Bicarbonate and Hydroxide	2	N/A	2010/11/12	CAM SOP-00102	APHA 4500-CO2 D
Carbonate, Bicarbonate and Hydroxide	1	N/A	2010/11/15	CAM SOP-00102	APHA 4500-CO2 D
Chloride by Automated Colourimetry	3	N/A	2010/11/15	CAM SOP-00463	SM 4500 Cl E
Conductivity	2	N/A	2010/11/11	CAM SOP-00448	SM 2510
Conductivity	1	N/A	2010/11/13	CAM SOP-00448	SM 2510
Sample Disposal Charge	3	N/A	2010/11/10		
Dissolved Organic Carbon (DOC)	1	N/A	2010/11/11	CAM SOP-00446	SM 5310 B
Dissolved Organic Carbon (DOC)	2	N/A	2010/11/12	CAM SOP-00446	SM 5310 B
Hardness (calculated as CaCO3)	3	N/A	2010/11/12	CAM SOP 00102	SM 2340 B
Metals Analysis by ICPMS (as received) †	3	2010/11/12	2010/11/12	CAM SOP-00447	EPA 6020
Ion Balance (% Difference)	3	N/A	2010/11/15		
Anion and Cation Sum	2	N/A	2010/11/12		
Anion and Cation Sum	1	N/A	2010/11/15		
Coliform/ E. coli, CFU/100mL	3	N/A	2010/11/10	CAM SOP-00551	MOE E3407
Heterotrophic plate count, (CFU/mL)	3	N/A	2010/11/10	CAM SOP-00512	SM 9215
Ammonia-N	3	N/A	2010/11/16	CAM SOP-00441	US GS I-2522-90
Nitrate (NO3) and Nitrite (NO2) in Water ‡	1	N/A	2010/11/11	CAM SOP-00440	SM 4500 NO3/NO2B
Nitrate (NO3) and Nitrite (NO2) in Water ‡	2	N/A	2010/11/12	CAM SOP-00440	SM 4500 NO3/NO2B
pH	2	N/A	2010/11/11	CAM SOP-00448	SM 4500H
pH	1	N/A	2010/11/13	CAM SOP-00448	SM 4500H
Orthophosphate	3	N/A	2010/11/15	CAM SOP-00461	SM 4500 P-F
Sat. pH and Langelier Index (@ 20C)	3	N/A	2010/11/15		
Sat. pH and Langelier Index (@ 4C)	3	N/A	2010/11/15		
Sulphate by Automated Colourimetry	3	N/A	2010/11/15	CAM SOP-00464	EPA 375.4
Total Dissolved Solids (TDS calc)	3	N/A	2010/11/15		

(1) Metals analysis was performed on the sample 'as received'.

(2) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

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CERTIFICATE OF ANALYSIS

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Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

DAVID GREB, Food Customer Service
Email: DGreb@maxxam.ca
Phone# (905) 817-5700

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

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RESULTS OF ANALYSES OF WATER

Maxxam ID		HU8606	HU8607	HU8608	
Sampling Date		2010/11/09 08:00	2010/11/09 08:00	2010/11/09 08:00	
COC Number		220892-01-01	220892-01-01	220892-01-01	
	Units	18 L R.O.	18 L SPRING	18 L DISTILLED	RDL

Anion Sum	me/L	0.179	4.87	0.000	N/A
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	5	218	ND	1
Calculated TDS	mg/L	11	246	ND	1
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	ND	3	ND	1
Cation Sum	me/L	0.165	5.01	0.00100	N/A
Hardness (CaCO ₃)	mg/L	ND	240	ND	1
Ion Balance (% Difference)	%	NC	1.34	NC	N/A
Langelier Index (@ 20C)	N/A	NC	0.922	NC	N/A
Langelier Index (@ 4C)	N/A	NC	0.672	NC	N/A
Saturation pH (@ 20C)	N/A	NC	7.30	NC	N/A
Saturation pH (@ 4C)	N/A	NC	7.55	NC	N/A
Ammonia-N	mg/L	ND	ND	ND	0.05
Conductivity	umho/cm	19	450	1	1
Organic Carbon	mg/L	ND	0.4	ND	0.2
Orthophosphate (P)	mg/L	ND	ND	ND	0.01
pH	pH	6.68	8.22	5.85	N/A
Sulphate (SO ₄)	mg/L	ND	18	ND	1
Alkalinity (Total as CaCO ₃)	mg/L	5	222	ND	1
Chloride (Cl)	mg/L	3	2	ND	1
Nitrite (N)	mg/L	ND	ND	ND	0.01
Nitrate (N)	mg/L	ND	ND	ND	0.1

ND = Not detected
 N/A = Not Applicable
 RDL = Reportable Detection Limit

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID		HU8606	HU8607	HU8608	
Sampling Date		2010/11/09 08:00	2010/11/09 08:00	2010/11/09 08:00	
COC Number		220892-01-01	220892-01-01	220892-01-01	
	Units	18 L R.O.	18 L SPRING	18 L DISTILLED	RDL

Aluminum (Al)	ug/L	ND	ND	ND	5
Antimony (Sb)	ug/L	ND	ND	ND	0.5
Arsenic (As)	ug/L	ND	ND	ND	1
Barium (Ba)	ug/L	ND	260	ND	5
Beryllium (Be)	ug/L	ND	ND	ND	0.5
Boron (B)	ug/L	24	13	ND	10
Cadmium (Cd)	ug/L	ND	ND	ND	0.1
Calcium (Ca)	ug/L	ND	57000	ND	200
Chromium (Cr)	ug/L	ND	ND	ND	5
Cobalt (Co)	ug/L	ND	ND	ND	0.5
Copper (Cu)	ug/L	ND	ND	1	1
Iron (Fe)	ug/L	ND	ND	ND	100
Lead (Pb)	ug/L	ND	ND	ND	0.5
Magnesium (Mg)	ug/L	ND	24000	ND	50
Manganese (Mn)	ug/L	ND	2	ND	2
Molybdenum (Mo)	ug/L	ND	2	ND	1
Nickel (Ni)	ug/L	ND	ND	ND	1
Phosphorus (P)	ug/L	ND	ND	ND	100
Potassium (K)	ug/L	ND	930	ND	200
Selenium (Se)	ug/L	ND	ND	ND	2
Silicon (Si)	ug/L	550	3300	ND	50
Silver (Ag)	ug/L	ND	ND	ND	0.1
Sodium (Na)	ug/L	3800	3300	ND	100
Strontium (Sr)	ug/L	ND	980	ND	1
Thallium (Tl)	ug/L	ND	ND	ND	0.05
Titanium (Ti)	ug/L	ND	ND	ND	5
Uranium (U)	ug/L	ND	0.5	ND	0.1
Vanadium (V)	ug/L	ND	ND	ND	1
Zinc (Zn)	ug/L	ND	ND	ND	5

ND = Not detected
 RDL = Reportable Detection Limit

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MICROBIOLOGY (WATER)

Maxxam ID		HU8606	HU8607	HU8608
Sampling Date		2010/11/09 08:00	2010/11/09 08:00	2010/11/09 08:00
COC Number		220892-01-01	220892-01-01	220892-01-01
	Units	18 L R.O.	18 L SPRING	18 L DISTILLED

Heterotrophic plate count	CFU/mL	0	0	0
Background	CFU/100mL	0	0	0
Total Coliforms	CFU/100mL	0	0	0
Escherichia coli	CFU/100mL	0	0	0

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GENERAL COMMENTS

Results relate only to the items tested.

Validation Signature Page

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The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Eva Pranjic


EWA PRANJIC, M.Sc., C.Chem, Scientific Specialist

Maxima C. Hernandez

MAXIMA HERMANEZ, SENIOR ANALYST

J. Tharmini

THARMINI SIVALINGAM, Team Leader

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