

商標登録証
(CERTIFICATE OF TRADEMARK REGISTRATION)

国際登録第1014461号
(INTERNATIONAL REGISTRATION NUMBER)

商標
(THE MARK)

Seychelle

指定商品又は指定役務並びに商品及び役務の区分
(LIST OF GOODS AND SERVICES)

11 Drinking water filtration and purification units, sold together with an empty water bottle, for personal use.

商標権者
(OWNER OF THE TRADEMARK RIGHT)

Seychelle Environmental Technologies, Inc.

33012 Calle Perfecto San Juan Capistrano, CA 92675 (United States of America)

国際登録日
(INTERNATIONAL REGISTRATION DATE)

17.08.2009

登録日
(REGISTRATION DATE)

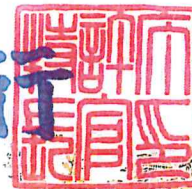
平成23年 1月 7日 (January 7, 2011)

この商標は、登録するものと確定し、商標原簿に登録されたことを証する。
(THIS IS TO CERTIFY THAT THE TRADEMARK IS REGISTERED ON THE REGISTER OF THE JAPAN PATENT OFFICE.)

平成23年 1月 7日 (January 7, 2011)

特許庁長官
(COMMISSIONER, JAPAN PATENT OFFICE)

岩井良行





Seychelle®
Water Filtration

放射性物質を**99.999%**除去!

世界最高水準の浄水器 放射能除去ポット

放射能除去ポットは、米国セイシェル社の「イオン吸着マイクロフィルター™」に放射性物質を除去する特殊技術を採用した新型フィルターを装備。

ご家庭でも安全な水を安心してお使いいただけます。



専門機関が証明した放射性物質の除去能力

Constituent	Result ± Error
Radio Chlorine ³⁷	0.000 ± 0.001
Gross Beta	0.000 ± 0.001
Total Alpha Radon (226)	0.000 ± 0.001
Uranium	0.000 ± 0.001

セシウム137、ラジウム222、ウランウム、グロスβを**99.999%**除去

米国の環境研究所FGL(Fruit Growers Laboratory, Inc.)のセイシェル浄水フィルターによる「放射性物質の除去試験」でも、その実力の高さが証明されました。

	Cs濃度(Bq/L)		除去率(%)
	原液中	処理水中	
ポット#1	0.911	0.011	99.9
ポット#2	0.911	0.011	99.9

セシウム137を**99%**以上除去

京都大学原子炉実験所による、セイシェル浄水フィルターの放射性セシウム除去能力テストでも、放射性セシウム137を99%以上除去することが実証されました。



世界で認められた高い安全性と最高の品質

セイシェルのイオン吸着マイクロフィルターは、放射性物質も水質基準がある米国で、EPA(米国国立環境保護局)ANSI(米国規格協会)、NSF(米国衛生財団)の規格基準をクリアし、世界16カ国の政府認証機関で認められています。また、NATO(北大西洋条約機構)、GSA(米国連邦調達局)、国際赤十字などを通じ、紛争地域の特殊部隊への使用や水環境が劣悪な地域の人道支援のために使われています。



NSF



EPA



ANSI



GSA U.S. General Services Administration



Seychelle®
Water Filtration

本体仕様

標準型放射能除去ポット

販売価格 : ¥22,000 (税込)

全容量 : 約3.78L

サイズ : 高さ270mm / 幅280mm / 奥行135mm

フィルター : 放射性イオン吸着マイクロフィルター

浄水能力 : 約576L

フィルター交換時期 : 約6ヶ月(1日3L使用時)



簡易型放射能除去ポット

販売価格 : ¥12,000 (税込)



大容量

1Lのペットボトル約4本分もタンクに貯水できます。継ぎ足す回数が減り、便利にお使いいただけます。

経済的

1日3L使っても、約6ヶ月間はフィルター交換が不要。ペットボトルやレンタル水と比較しても断然お得です。

高性能

放射性物質はもちろん、JIS規格で定められた塩素や農薬などの13物質のほかにも重金属、バクテリアなど多くの有害物質を99%除去します。

容器に約 300mL の Cs 溶液を入れる。

Cs 濃度は 1.6×10^{-3} g/L であった。

これは Cs-137 の放射能濃度に換算すると 5.3×10^9 Bq/L である。



約 300mL

Add a solution of Cs of approximately 300mL containers.

Cs concentration was 1.6×10^{-3} g / L was used

This is a 5.3×10^9 Bq / L and converted to the radioactivity concentration of Cs-137.



その後濾過器付きキャップを装着し、採取口から約 100mL をポリ瓶に注ぐ。

この採取した溶液中の Cs 濃度の測定結果(サーモフィッシャーサイエンティフィック社製 ICP-MS(Element)によって測定)は 6.8×10^{-9} g/L となったが、今回の測定条件では検出下限値(3σ)は 7.1×10^{-9} g/L であり、検出下限値以下であった。



Fitted with a filter cap then pour in about 100mL of poly bottle collected from the mouth piece.

A 6.8×10^{-9} g / L (measured by the (Element) ICP-MS manufactured by Thermo

Fisher Scientific) measured concentrations of Cs in the solution were collected, in the measurement conditions of this detection limit (3σ) is 7.1×10^{-9} g / L, were below the detection limit.

仮に処理後の Cs 濃度が検出下限値ギリギリの値 7.1×10^{-9} g/L であったとしたら、その場合、除去率((処理前の Cs の量 - 処理後の Cs の量) / 処理前の Cs の量 $\times 100$)は、100mL を処理したとして :

処理前の Cs の量; 1.6×10^{-3} [g/L] $\times 100$ [mL] = 1.6×10^{-4} [g]

処理後の Cs の量; 7.1×10^{-9} [g/L] $\times 100$ [mL] = 6.8×10^{-10} [g]

よって除去率(%) = $(1.6 \times 10^{-4}$ [g] - 6.8×10^{-10} [g]) / 1.6×10^{-4} [g] $\times 100$ = 99.9996[%]となる。

実際は検出下限値以下の値であったため、除去率は 99.9996%以上であったといえる。

The 7.1×10^{-9} g / L value of the last minute detection limit concentration of Cs after temporarily treatment, in which case the amount of Cs removal rate before treatment ((- before treatment) / amount of Cs after treatment $\times 100$) the amount of Cs, as processed in the 100mL: 1.6×10^{-3} [g / L] $\times 100$ [mL] = 1.6×10^{-4} [g], the amount of Cs before the treatment was 7.1×10^{-9} [g / L] $\times 100$ [mL] = 6.8×10^{-10} [g]; amount of Cs after treatment Consisting of - (6.8×10^{-10} [g] 1.6×10^{-4} [g]) / 1.6×10^{-4} [g] $\times 100$ = 99.9996 and[%] removal rate (%) = So. It was actually less than or equal to the limit of detection, and removal rate was more than 99.9996%.

飲み水に不安を感じる方々のために。
放射性物質も最大99.999%除去
世界最高水準のポット型浄水器「放射能除去ポット」

株式会社ビーウェル(本社:大阪市浪速区 代表取締役:宮田 芳明)は、2012年3月に放射性物質を最大で99.999%以上除去する”米国セイシェル社(Seychelle Environmental Technologies, Inc.)製 家庭用ポット型浄水器 放射能除去ポットの販売を、日本国内で初めて開始いたします。

「放射能除去ポット」は、米国に本拠を構えるセイシェル社が開発した飲料水中の汚染有機物を、最大で99.999%除去する世界最高水準の浄水システム「イオン吸着マイクロフィルター™」に改良を加え、新たにセシウム137、ウラニウム、ラジウム226などの放射性物質を99%以上除去することを可能にした新型フィルターを採用しています。

放射性物質を最高水準で除去する性能を持ちながら、一般家庭でも手軽に使うことが出来る価格帯に抑えた、唯一の浄水器です。



食べ物の安全に消費者の関心が高まるなか、特に昨年の東日本大震災以降は放射能による食品や水の汚染を心配し、不安を感じている方が多くなりました。

そのような現状を踏まえ新型フィルターを開発したセイシェル社と、少しでも早く皆様に安心して水をお使いいただきたい弊社との間で先行販売契約を結び、日本に初上陸することとなりました。

(株)ビーウェルでは、現在代理店および販売店を募集しております。

詳しくは <http://www.b-well.co.jp> または フリーダイヤル 0120-885-499 までご確認ください。

▼「放射能除去ポット」の特徴

【 放射性物質を最大99.999%除去 】

米国の環境研究所 FGL(Fruit Growers Laboratory, Inc. CA)のセイシェル浄水フィルターによる放射性物質除去試験において、セシウム137、ラジウム226、ウラニウム、グロスベータを99.999%除去することが実証されました。

また、京都大学原子炉実験所による浄水試験でもセシウム137を99%以上除去することが立証されました。

【 世界最高水準の品質 】

セイシェル社が開発した浄水システム「イオン吸着マイクロフィルター™」は米国及び16カ国の政府認証の試験機関でその実力をされており、EPA(米国国立環境保護局)、ANSI(米国規格協会)及びNSF(米国衛生財団)の規定にも合格しています。

また、100種類以上の有害物質を除去できる性能の高さからNATO(北大西洋条約機構)やGSA(米国連邦調達局)により、政府及び軍隊でも使用されています。

【セイシェル社について】

NASDAQ 上場企業であるセイシェル社 (Seychelle Environmental Technologies, Inc.) は、1998 年に米国のカリフォルニア州に水環境ビジネスの会社として設立されて以来、水濾過産業界のパイオニアとして画期的な先端技術で開発した水質浄化システムを世界中に供給することで急成長した会社です。

その性能を高く評価された独自開発の「イオン吸着マイクロフィルター™」は、世界中の紛争地域や発展途上国などの汚染された水源で必要とされ、国際赤十字をはじめ多くの軍隊や特殊部隊で使われています。

昨年 3 月 11 日の東日本大震災で起こった、福島第一原発の事故により拡散された放射能による日本の水資源の汚染を憂慮したセイシェル社の社長兼最高責任者であるカール・パーマー氏の指示により、新しく開発された新型の浄水フィルターは、独自の特殊技術により、飲料水に混入する可能性のある放射性物質を 99% 以上除去することに成功しました。

【製品概要】

- 製品名 : 家庭用ポット型浄水器 「セイシェル放射能除去ポット」
- 販売価格 : ¥23,000 (税込)
- 全容量 : 約 3.78L
- サイズ : 高さ 270 mm / 横幅 280 mm / 奥行 135 mm
- フィルター : 活性炭(イオン吸着マイクロフィルター™)
- 浄水能力 : 約 576L
- フィルター交換時期 : 約 6 ヶ月 (1 日 3.78L 使用時)
- 生産国 : アメリカ製

- 輸入販売元 : 株式会社ビーウェル
大阪市浪速区日本橋 3-1-20 ビーウェルビル
TEL 06-6648-7220
担当 竹折俊之





Analytical Chemists

April 6, 2011

Seychelle Water Filtration Products
32963 Calle Perfecto
San Juan Capistrano, CA 92675

Lab ID : SP 1103223
Customer : 2-23748

Laboratory Report

Introduction: This report package contains total of 7 pages divided into 3 sections:

- Case Narrative (2 pages) : An overview of the work performed at FGL.
- Sample Results (4 pages) : Results for each sample submitted.
- Quality Control (1 page) : Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
Pitcher 1st Uranium Portion	03/28/2011	03/28/2011	SP 1103223-001	DW
Pitcher 2nd Uranium Portion	03/28/2011	03/28/2011	SP 1103223-002	DW
Bottle 1st Uranium Portion	03/28/2011	03/28/2011	SP 1103223-003	DW
Bottle 2nd Uranium Portion	03/28/2011	03/28/2011	SP 1103223-004	DW

Sampling and Receipt Information: All samples were received, prepared and analyzed within the method specified holding times. All samples arrived at room temperature. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Radio QC

908.0	04/04/2011:204905 All analysis quality controls are within established criteria.
	04/04/2011:204906 All analysis quality controls are within established criteria.
	03/30/2011:203420 All preparation quality controls are within established criteria, except: The following note applies to Uranium: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

April 6, 2011
Seychelle Water Filtration Products

Lab ID : SP 1103223
Customer : 2-23748

Certification:: I certify that this data package is in compliance with NELAC standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:DMB

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2011-04-06



Analytical Chemists
April 6, 2011

Lab ID : SP 1103223-001
Customer ID : 2-23748

Seychelle Water Filtration Products
32963 Calle Perfecto
San Juan Capistrano, CA 92675

Sampled On : March 28, 2011-00:00
Sampled By : Not Available
Received On : March 28, 2011-10:00
Matrix : Drinking Water

Description : Pitcher 1st Uranium Portion
Project : Seychelle

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry ^{P:1}								
Uranium	0.948 ± 0.589	0.380	pCi/L	20	908.0	03/30/11:203420	908.0	04/04/11:204905

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: N/A * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.
MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).
AV = (Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following
If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:

Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L
Uranium is less than or equal to 20 pCi/L
Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.



Analytical Chemists
April 6, 2011

Lab ID : SP 1103223-002
Customer ID : 2-23748

Seychelle Water Filtration Products
32963 Calle Perfecto
San Juan Capistrano, CA 92675

Sampled On : March 28, 2011-00:00
Sampled By : Not Available
Received On : March 28, 2011-10:00
Matrix : Drinking Water

Description : Pitcher 2nd Uranium Portion
Project : Seychelle

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry ^{P:1}								
Uranium	3.43 ± 0.999	0.357	pCi/L	20	908.0	03/30/11:203420	908.0	04/04/11:204906

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: N/A * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.
MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).
AV = (Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following
If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:

Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L
Uranium is less than or equal to 20 pCi/L
Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.



Analytical Chemists
April 6, 2011

Lab ID : SP 1103223-003
Customer ID : 2-23748

Seychelle Water Filtration Products
32963 Calle Perfecto
San Juan Capistrano, CA 92675

Sampled On : March 28, 2011-00:00
Sampled By : Not Available
Received On : March 28, 2011-10:00
Matrix : Drinking Water

Description : Bottle 1st Uranium Portion
Project : Seychelle

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry^{P:1}								
Uranium	4.89 ± 1.20	0.380	pCi/L	20	908.0	03/30/11:203420	908.0	04/04/11:204905

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: N/A * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.
MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).
AV = (Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following
If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:
Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L
Uranium is less than or equal to 20 pCi/L
Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.



Analytical Chemists
April 6, 2011

Lab ID : SP 1103223-004
Customer ID : 2-23748

Seychelle Water Filtration Products
32963 Calle Perfecto
San Juan Capistrano, CA 92675

Sampled On : March 28, 2011-00:00
Sampled By : Not Available
Received On : March 28, 2011-10:00
Matrix : Drinking Water

Description : Bottle 2nd Uranium Portion
Project : Seychelle

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry ^{P:1}								
Uranium	5.11 ± 1.20	0.357	pCi/L	20	908.0	03/30/11:203420	908.0	04/04/11:204906

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: N/A * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.
MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).
AV = (Gross Alpha Result + (0.84 x Error)), CCR Section 64442: Drinking Water Compliance Note: Do the following
If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:
Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L
Uranium is less than or equal to 20 pCi/L
Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.



Analytical Chemists

April 6, 2011
Seychelle Water Filtration Products

Lab ID : SP 1103223
Customer : 2-23748

Quality Control - Radio

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Radio Alpha	908.0	04/04/2011:204905	CCV	cpm	10170	41.8 %	38 - 47	
			CCB	cpm		0.100	0.15	
	908.0	04/04/2011:204906	CCV	cpm	10170	43.3 %	38 - 47	
			CCB	cpm		0.0500	0.19	
Uranium	908.0	03/30/2011:203420	RgBlk	pCi/L		0.02	1	435
			LRS	pCi/L	20.86	88.7 %	54-105	
			BS	pCi/L	20.86	74.1 %	75-125	
			BSD	pCi/L	20.86	83.9 %	75-125	
			BSRPD	pCi/L	20.86	12.3%	≤20	
Definition								
CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.								
CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.								
RgBlk : Method Reagent Blank - Prepared to correct for any reagent contributions to sample result.								
BS : Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.								
BSD : Blank Spike Duplicate of BS/BSD pair - A blank duplicate is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.								
BSRPD : BS/BSD Relative Percent Difference (RPD) - The BS relative percent difference is an indication of precision for the preparation and analysis.								
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.								
Explanation								
435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.								

Santa Paula - Condition Upon Receipt (Attach to COC)

Sample Receipt:

- Number of ice chests/packages received: 1
Note as OTC if received over the counter unpackaged.
- Were samples received in a chilled condition? Temps: RRT / ___ / ___ / ___ / ___
Acceptable is 2° to 6° C. Also acceptable is received on ice (ROI) for the same day of sampling or received at room temperature (RRT) if sampled within one hour of receipt. Client contact for temperature failures must be documented below. If many packages are received at one time check for tests/H.T.'s/rushes/Bacti's to prioritize further review. Please notify Microbiology personnel immediately of bacti samples received.
- Do the number of bottles received agree with the COC? Yes No N/A
- Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No
- Were sample custody seals intact? N/A Yes No

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

- Were all requested analyses understood and acceptable? Yes No
- Did bottle labels correspond with the client's ID's? Yes No
- Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL
- VOAs checked for Headspace? Yes No N/A
- Were all analyses within holding times at time of receipt? Yes No
- Have rush or project due dates been checked and accepted? N/A Yes No

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials): [Signature]

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

- Person Contacted: _____ Phone Number: _____
Initiated By: _____ Date: _____
Problem: _____
Resolution: _____
- Person Contacted: _____ Phone Number: _____
Initiated By: _____ Date: _____
Problem: _____
Resolution: _____

(2-23748)
Seychelle Water Filtration Products
SP 1103223
SRP-03/30/2011-16:51:39



Analytical Chemists
April 22, 2011

Seychelle Water Filtration Products
32963 Calle Perfecto
San Juan Capistrano, CA 92675

Lab ID : SP 1103691
Customer : 2-23748

Laboratory Report

Introduction: This report package contains total of 5 pages divided into 3 sections:

- Case Narrative (2 pages) : An overview of the work performed at FGL.
- Sample Results (2 pages) : Results for each sample submitted.
- Quality Control (1 page) : Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
Pitcher Plus	04/12/2011	04/12/2011	SP 1103691-001	DW
Pitcher Plus CaS03	04/12/2011	04/12/2011	SP 1103691-002	DW

Sampling and Receipt Information: All samples were received, prepared and analyzed within the method specified holding times. All samples arrived at room temperature. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Radio QC

900.0	04/20/2011:205836 All analysis quality controls are within established criteria.
	04/19/2011:204213 All preparation quality controls are within established criteria, except: The following note applies to Gross Beta: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
903.0	04/19/2011:205787 All analysis quality controls are within established criteria.
	04/18/2011:204162 All preparation quality controls are within established criteria.
908.0	04/16/2011:205547 All analysis quality controls are within established criteria.
	04/16/2011:205548 All analysis quality controls are within established criteria.
	04/15/2011:204077 All preparation quality controls are within established criteria.

Analytical Chemists
April 22, 2011

Lab ID : SP 1103691-001
Customer ID : 2-23748

Seychelle Water Filtration Products
32963 Calle Perfecto
San Juan Capistrano, CA 92675

Sampled On : April 12, 2011-00:00
Sampled By : Not Available
Received On : April 12, 2011-10:30
Matrix : Drinking Water

Description : Pitcher Plus
Project : Seychelle

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry^P								
Gross Beta	0.697 ± 1.64	2.51	pCi/L	50	900.0	04/19/11:204213	900.0	04/20/11:205836
Total Alpha Radium (226)	0.000 ± 0.398	0.824	pCi/L	3	903.0	04/18/11:204162	903.0	04/19/11:205787
Uranium	0.000 ± 0.681	0.475	pCi/L	20	908.0	04/15/11:204077	908.0	04/16/11:205548

ND=Non-Detected, PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: N/A * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.
MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).
AV = (Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following
If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:
Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L
Uranium is less than or equal to 20 pCi/L
Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.

Analytical Chemists
April 22, 2011

Lab ID : SP 1103691-002
Customer ID : 2-23748

Seychelle Water Filtration Products
32963 Calle Perfecto
San Juan Capistrano, CA 92675

Sampled On : April 12, 2011-00:00
Sampled By : Not Available
Received On : April 12, 2011-10:30
Matrix : Drinking Water

Description : Pitcher Plus CaSO3
Project : Seychelle

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry^P								
Gross Beta	0.000 ± 0.666	1.08	pCi/L	50	900.0	04/19/11:204213	900.0	04/20/11:205836
Total Alpha Radium (226)	0.000 ± 0.433	0.824	pCi/L	3	903.0	04/18/11:204162	903.0	04/19/11:205787
Uranium	0.000 ± 0.678	0.446	pCi/L	20	908.0	04/15/11:204077	908.0	04/16/11:205547

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: N/A * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.
MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).
AV = (Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following
If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:
Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L
Uranium is less than or equal to 20 pCi/L
Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.

Analytical Chemists
April 22, 2011

Seychelle Water Filtration Products
32963 Calle Perfecto
San Juan Capistrano, CA 92675

Lab ID : SP 1103577
Customer : 2-23748

Laboratory Report

Introduction: This report package contains total of 5 pages divided into 3 sections:

- Case Narrative (2 pages) : An overview of the work performed at FGL.
- Sample Results (2 pages) : Results for each sample submitted.
- Quality Control (1 page) : Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
Bottle 1st Uranium Portion	04/07/2011	04/11/2011	SP 1103577-001	DW
Bottle 2nd Uranium Portion	04/07/2011	04/11/2011	SP 1103577-002	DW

Sampling and Receipt Information: All samples were received, prepared and analyzed within the method specified holding times. All samples arrived at room temperature. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Radio QC

900.0	04/20/2011:205836 All analysis quality controls are within established criteria.
	04/19/2011:204213 All preparation quality controls are within established criteria, except: The following note applies to Gross Beta: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.
903.0	04/19/2011:205787 All analysis quality controls are within established criteria.
	04/18/2011:204162 All preparation quality controls are within established criteria.
908.0	04/16/2011:205547 All analysis quality controls are within established criteria.
	04/16/2011:205548 All analysis quality controls are within established criteria.
	04/15/2011:204077 All preparation quality controls are within established criteria.



Analytical Chemists

April 22, 2011
Seychelle Water Filtration Products

Lab ID : SP 1103577
Customer : 2-23748

Quality Control - Radio

Table with 9 columns: Constituent, Method, Date/ID, Type, Units, Conc., QC Data, DQO, Note. Rows include Radio Beta, Gross Beta, Alpha, Total Alpha Radium (226), Uranium, and various sub-methods like CCV, CCB, LCS, MS, MSD, BSRPD, RgBlk, BS, BSD.

Definition
CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
RgBlk : Method Reagent Blank - Prepared to correct for any reagent contributions to sample result.
LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSD : Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
BS : Blank Spikes - A blank is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
BSD : Blank Spike Duplicate of BS/BSD pair - A blank duplicate is spiked with a known amount of analyte. It is prepared to verify that the preparation process is not affecting analyte recovery.
MSRPD : MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
BSRPD : BS/BSD Relative Percent Difference (RPD) - The BS relative percent difference is an indication of precision for the preparation and analysis.
DQO : Data Quality Objective - This is the criteria against which the quality control data is compared.

Explanation
435 : Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.



April 22, 2011 Analytical Chemists

Lab ID : SP 1103577-001
Customer ID : 2-23748

Seychelle Water Filtration Products
32963 Calle Perfecto
San Juan Capistrano, CA 92675

Sampled On : April 7, 2011-00:00
Sampled By : Not Available
Received On : April 11, 2011-10:15
Matrix : Drinking Water

Description : Bottle 1st Uranium Portion
Project : Seychelle

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry^{P,1}								
Gross Beta	0.000 ± 1.14	1.93	pCi/L	50	900.0	04/19/11:204213	900.0	04/20/11:205836
Total Alpha Radium (226)	0.551 ± 1.19	1.65	pCi/L	3	903.0	04/18/11:204162	903.0	04/19/11:205787
Uranium	4.61 ± 4.04	1.79	pCi/L	20	908.0	04/15/11:204077	908.0	04/16/11:205547

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: HNO3 pH < 2 * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.
MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).
AV = (Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following
If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:

Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L
Uranium is less than or equal to 20 pCi/L
Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.

Note: Cs-137 utilized in Gross Beta Radioactivity removal test.
In each portion of Cs-137 added 100% was removed.
Michel M. Franco, Radiochemistry Technical Advisor



April 22, 2011 Analytical Chemists

Lab ID : SP 1103577-002
Customer ID : 2-23748

Seychelle Water Filtration Products
32963 Calle Perfecto
San Juan Capistrano, CA 92675

Sampled On : April 7, 2011-00:00
Sampled By : Not Available
Received On : April 11, 2011-10:15
Matrix : Drinking Water

Description : Bottle 2nd Uranium Portion
Project : Seychelle

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry^{P-1}								
Gross Beta	0.000 ± 0.991	1.86	pCi/L	50	900.0	04/19/11:204213	900.0	04/20/11:205836
Total Alpha Radium (226)	0.000 ± 0.877	1.65	pCi/L	3	903.0	04/18/11:204162	903.0	04/19/11:205787
Uranium	0.000 ± 2.19	1.90	pCi/L	20	908.0	04/15/11:204077	908.0	04/16/11:205548

ND=Non-Detected. PQL=Practical Quantitation Limit. Containers: (P) Plastic Preservatives: HNO3 pH < 2 * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.
MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).
AV = (Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following
If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:
Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L
Uranium is less than or equal to 20 pCi/L
Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.

Note: Cs- 137 utilized in Gross Beta Radioactivity removal test.
In each portion of Cs-137 added 100% was removed.
Michel M. Franco, Radiochemistry Technical Advisor

Santa Paula - Condition Upon Receipt (Attach to COC)

Sample Receipt:

1. Number of ice chests/packages received: _____
Note as OTC if received over the counter unpackaged.
2. Were samples received in a chilled condition? Temp: _____ / _____ / _____ / _____ / _____
Acceptable is 2° to 6° C. Also acceptable is received on ice (ROI) for the same day of sampling or received at room temperature (RRT) if sampled within one hour of receipt. Client contact for temperature failures must be documented below. If many packages are received at one time check for tests/H.T.'s/rushes/Bacti's to prioritize further review. Please notify Microbiology personnel immediately of bacti samples received.
3. Do the number of bottles received agree with the COC? Yes No N/A
4. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No
5. Were sample custody seals intact? N/A Yes No

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

1. Were all requested analyses understood and acceptable? Yes No
2. Did bottle labels correspond with the client's ID's? Yes No
3. Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL
4. VOAs checked for Headspace? Yes No N/A
5. Were all analyses within holding times at time of receipt? Yes No
6. Have rush or project due dates been checked and accepted? N/A Yes No

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials): _____

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____
Initiated By: _____ Date: _____
Problem: _____

Resolution: _____

2. Person Contacted: _____ Phone Number: _____
Initiated By: _____ Date: _____
Problem: _____

Resolution: _____

(2-23748)
Seychelle Water Filtration Products

SP 1103577

SRP-04/11/2011-10:17:53

er here

April 22, 2011
Seychelle Water Filtration Products

Lab ID : SP 1103577
Customer : 2-23748

Certification:: I certify that this data package is in compliance with NELAC standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:DMB

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2011-04-25

Seychelle Radiological Water Pitcher

● Pitcher Specification

Height	270mm	Pitcher	ABS resin	Reference: ■EPA / ANSI Approval ■NSF Standard #42 and #53
Width	280mm	Lid	ABS resin	
Depth	135mm	Handle	ABS resin	
Weight	810.5g	Filter	See below	
Capacity	3.78L	Origin	USA	
Filtering Capability	567L			

● Filter Specification

Water Filtration Capability		1000L	F i l t r a t i o n C a p a b i l i t y	National Regulated Element※A	Filtration Capability	Filtration Values 567L	Remarks
Pitcher Size		3.78L		Free Residual Chlorine	BDL		% Equivalent to JIS S3201 test results
Filter Cartridge Capacity		? L		Cloud	85.60%		50% of JIS S3201 test results
Mineral Addition		None		Trihalomethane	99.80%		% equivalent to JIS S3201 test results ※B
Cartridge Size	Height	90mm		Chloroform	98.52%		
	OD	96mm		Bromodichloromethane	99.80%		
	Depth	-		Dibromochloropropane	98.08%		
Cartridge Mass	Dry	146g		Bromoform	99.80%		
	Wet	156g		tetrachloroethylene	>99.60%		
Water Temp.		70 degree C		Trichloroethylene	99.20%		
Filtration Water Flow Rate		1L/6 min.		1.1.1 Trichloroethane	99.76%		
Filtration Time		10-15 Min.		CAT (Pesticide) ※C	N/A		
Filtration Life		5 Mo.		2-MIB (Mold Odor) ※D	N/A		
Material	Pitcher	ABS resin		Dissoluble Lead	97.50%		
	Lid	ABS resin		Iron (particle)	98.20%		
Mineral Addition		None	Aluminum (neutral)	90.00%			
Filtration Method		Ionic-Adsorption Micro-Filtration System™ (Charcoal, Ionic-Adsorption, Natural Mineral)					
Unfiltrable Element		Dissolved Iron, heavy metals (silver, copper etc.), salt water (seawater)					

※1日3.78L使用時

※A "Household Goods Quality Labeling Act" designated 13 substances and Japan Water Purifier Association designated 2 substances

※B JIS designated test number

※C CAT (Pesticide), Simazine ※C7H12CIN5

※D 2-MIB(Mold Odor) ※2-Methylisoborneol

Check above contents and make corrections if necessary

- If you find any mistake or incorrect information, please revise it.
- JIS3201 test number could be the same test with what you asked JFRL
(Please check)

セシウム134・137テスト結果

University of Tokyo

放射能分析結果報告書

No. NC1202-022G
平成24年2月22日

有限会社ヴォータックス 様

試料名	原水(水源2)のボトル1による処理水
原水採取者	横山精一 (浪江町議会議員) 永島貞治
採取場所	福島県双葉郡浪江町大畑地区
採取日	平成24年2月5日 午前10時
受取日時	平成24年2月13日

株式会社 環境管理研究所

計量証明事業登録(環境) 栃木県第0180号
〒320-0103 宇都宮市野沢町602番地9
TEL. 028-665-3153 FAX. 028-665-1114
環境計量士 松島輝幸

浄水後

貴依頼による濃度に係る分析の結果は下記の通りであることを報告します。

核種	単位	放射能濃度	検出下限濃度	
放射性セシウム	Cs-134	Bq/kg	0.8	0.43
	Cs-137	Bq/kg	1.4	0.58
	Cs合計	Bq/kg	2.2	-

【測定方法】

平成4年 文部科学省 ゲルマニウム半導体検出器によるγ線スペクトロメトリー
平成23年11月 廃棄物等の放射能調査・測定法研究会 廃棄物等の放射能調査・測定法暫定マニュアル
平成23年12月 環境省 放射能濃度等測定方法ガイドライン 第五部

【備考】

気象条件：晴れ、気温0度、微風
不検出とは検出下限濃度未満を示します。

除去率 ^{ボトル1} Cs-134 99.83%

除去率 ^{ボトル1} Cs-137 99.78%

放射能分析結果報告書

No. NC1202-015G
平成24年2月22日

有限会社ヴォータックス 様

試料名	原水 (水源2)
原水採取者	横山精一 (浪江町議会議員) 永島貞治
採取場所	福島県双葉郡浪江町大堀地区
採取日	平成24年2月5日 午前10時
受取日時	平成24年2月13日

株式会社 環境管理研究所

計量証明事業登録 (環境) 栃木県第 0180 号
〒320-0671 宇都宮市野沢町602番地9

TEL. 028-665-3153 FAX. 028-665-1114
環境計量士 松島輝幸

原水

貴依頼による濃度に係る分析の結果は下記の通りであることを報告します。

核種	単位	放射能濃度	検出下限濃度	
放射性セシウム	Cs-134	Bq/kg	460	3
	Cs-137	Bq/kg	640	2.6
	Cs合計	Bq/kg	1100	

【測定方法】

平成4年 文部科学省 ゲルマニウム半導体検出器によるγ線スペクトロメトリー
平成23年11月 廃棄物等の放射能調査・測定法研究会 廃棄物等の放射能調査・測定法暫定マニュアル
平成23年12月 環境省 放射能濃度等測定方法ガイドライン 第五部

【備考】

気象条件：晴れ、気温0度、微風
不検出とは検出下限濃度未満を示します。

京都大学原子炉実験所によるセシウム RAD フィルターを使用した
「多孔質吸着剤の吸着特性に関する研究」の結果報告書

受託試験結果報告書

京都大学原子炉実験所
大阪府泉南郡熊取町朝代西 2 丁目

平成 24 年 1 月 11 日に受託した研究題目について試験した結果は以下の通りです。

依頼者 関ビーウエル

1. 試供品名 : 水筒型 RAD フィルター ピッチャー型 RAD フィルター
2. 研究題目 : 多孔質吸着剤の吸着特性に関する研究
3. 試験方法及び結果 :

水筒型

容器に約 250mL のセシウム溶液を入れ、ストロー口から処理水を流出させ、約 20mL をポリ瓶に採取。

	Cs 濃度(mg/L)		除去率(%)
	原液中	処理水中	
フィルター1	0.989	0.001	99.9
フィルター2	0.860	<0.000005	>99.9

ピッチャー型

最初、純水で充分カートリッジに通水しておく。その後セシウム溶液約 1L を作成し、まず 500mL 通水させ、処理水は廃棄する。残りの 500mL を通水し、これを処理水サンプルとする。

	Cs 濃度(ng/L)		除去率(%)
	原液中	処理水中	
ピッチャー1	0.955	0.001	99.9
ピッチャー2	0.928	0.003	99.6

測定は Yokogawa 社製 ICP-MS(HP-4500)で行った。

測定者：福谷哲（京都大学原子炉実験所）

ボトル型、ピッチャー型とも放射性セシウム 137 の除去率は 99%以上の結果



October 22, 2012

Mr. Jim Eaton
Med Sport Health
32963 Calle Perfecto
San Juan Capistrano, CA 92675

RE: Report of Findings, Bench scale evaluation of cesium removal by water filtration cartridges

Dear Jim:

PRIMA recently conducted bench testing to evaluate the ability of a water filtration cartridge to remove cesium from water. The test was conducted on September 21, 2012. The procedures and results are presented in this letter.

Procedures

A water bottle, labeled "Seychelle" and fitted with a filter cartridge was received from NuWater USA (Concord, CA) on September 20, 2012. Cesium-spiked tap water was pumped through the bottle and effluent samples were collected periodically and analyzed for cesium. Influent water was prepared by spiking tap water from PRIMA's facility with cesium sulfate to achieve an initial cesium concentration of 0.050 mg/L. Influent water was pumped into the bottle at a flowrate of 200 mL/min using a peristaltic pump. Water entered the bottle through a hole in the cap then flowed through the filter and exited via the spout. Water was collected at 1, 2.5, 5, 10, and 20 gallons and analyzed for total cesium by Alpha Analytical (Sparks, NV) using EPA Method 6020. The test set-up is shown in Figure 1.

Results

Test results are shown in Table 1. Influent water contained 0.050 mg/L cesium. The filter removed cesium to below the reporting limit of 0.005 mg/L for over 10 gallons. (Note that cesium could not be positively identified at ½ the reporting limit in these samples, implying that cesium concentrations are less than 0.0025 mg/L. If cesium had been identified, an estimated concentration between 0.0025 and 0.005 mg/L would have been reported.) Breakthrough was observed at the 20 gallon sampling event, with 0.011 mg/L cesium detected.



Figure 1. Experimental set-up to evaluate water bottle filter.

Table 1. Filter Bottle Test Results.

Samle ID	Flowrate	Sample Time	# Gallons Put	Cesium
	mL/min	min	Through	mg/L
Influent	0	0	0	0.050
A	200	19	1.0	< 0.0050
B	200	47	2.5	< 0.0050
C	200	94	5.0	< 0.0050
D	200	201	11	< 0.0050
E	200	379	20	0.011

Notes:

- Samples "A-E" are effluent samples.
- The reporting limit was 0.0050 mg/L for all samples. If concentration is "< 0.0050 mg/L",

If you have any questions regarding this report, please give me a call at 916-939-7300.
 Thank you for the opportunity to be of service.

Sincerely,
PRIMA Environmental, Inc.

Cindy G. Schreier, Ph.D.
 President and Chief Scientist

cc Jim Settle, NuWater USA



ENVIRONMENTAL

ANALYTICAL CHEMISTS

GENERAL MINERAL, PHYSICAL, INORGANIC, & RADIOLOGICAL CHEMICAL ANALYSES

Date of Report: July 2, 1996
 Laboratory Name: FGL Environmental
 Name of Sampler: Paul Mead
 Date/Time Sample Collected: 06/20/1996-1525

Sample ID No. SP 605063-02
 Signature Lab Director: *[Signature]*
 Employed By: CTL
 Date/Time Sample Rec. @ Lab: 06/21/1996-1000
 Date Analyses Completed: 06/21/1996

System Name: CTL ENVIRONMENTAL SERVICES
 System Number:

Name or Number of Sample Source: 49606151-3 (Un-Filtered)

User ID:	Station Number:
Date/Time of Sample: 9 6 0 6 2 6 1 0 0 0 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone #(805) 659-0910

RADIOLOGICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	pCi/L	Radon 222	82303	540	
	pCi/L	Radon 222 Counting Error	82302	± 30	

← Before

Name or Number of Sample Source: 49606151.1-Filtered

User ID:	Station Number:
Date/Time of Sample: 9 6 0 6 2 0 1 5 2 5 Y Y M M D D T T T T	Laboratory Code: 5 8 6 7
Submitted by: FGL Environmental	Phone #(805) 659-0910

RADIOLOGICAL CHEMICALS

MCL	UNITS	CHEMICAL	ENTRY	RESULT	DLR
	pCi/L	Radon 222	82303	0.0	ND
	pCi/L	Radon 222 Counting Error	82302	± 10	

← After

MCL - Maximum Contaminate Level DLR - Detection Limit for Reporting purposes ND - Not Detected at or above DLR
 + Indicates Secondary Drinking Water Standards

KT3 – 08924MT6

PHIẾU KẾT QUẢ THỬ NGHIỆM
TEST REPORT

09/09/2016
Page 01/04

1. Tên mẫu : MẪU NƯỚC LỌC QUA MÁY LỌC NƯỚC BELLAVIEWATER PURE 2 DRINK.
Name of sample : MẪU NƯỚC LỌC QUA MÁY LỌC NƯỚC BELLAVIEWATER PURE 2 DRINK.
Thời gian lấy mẫu/ Sampling time: 10^h15 – Ngày 06/09/2016.
2. Mô tả mẫu : Theo yêu cầu của khách hàng, sử dụng nguồn nước thủy cục của Trung Tâm Kỹ Thuật Tiêu Chuẩn Đo Lường Chất Lượng 3 lọc qua Máy lọc nước BELLAVIEWATER PURE 2 DRINK – nước qua lọc trong, không màu chứa trong bình nhựa x 5 L.
Description : Theo yêu cầu của khách hàng, sử dụng nguồn nước thủy cục của Trung Tâm Kỹ Thuật Tiêu Chuẩn Đo Lường Chất Lượng 3 lọc qua Máy lọc nước BELLAVIEWATER PURE 2 DRINK – nước qua lọc trong, không màu chứa trong bình nhựa x 5 L.
As customer request, use tap water at Quality Assurance And Testing Centre 3 filtered through water filter BELLAVIEWATER PURE 2 DRINK – water through filter was colorless, clear and contained in plastic bottle, about 5 L. Máy lọc nước BELLAVIEWATER PURE 2 DRINK.
(Xem hình trang 04/04).
Water filtration BELLAVIEWATER PURE 2 DRINK.
(See picture page 04/04).
3. Số lượng mẫu : 01
Quantity
4. Ngày nhận mẫu : 06/09/2016
Date of receiving
5. Thời gian thử nghiệm : 06/09/2016 – 09/09/2016
Testing time
6. Nơi gửi mẫu : CÔNG TY TNHH PHẦN MỀM V3 KIM LONG
Customer : 10/1 Sông Thao, Quận Tân Bình, Thành phố Hồ Chí Minh
7. Kết quả thử nghiệm : Xem trang 02 và 03/04/ See page 02 and 03/04
Test results

TRƯỞNG PHÒNG TN MÔI TRƯỜNG
HEAD OF ENVIRONMENTAL TESTING LAB



Phan Thành Trung

PHÓ GIÁM ĐỐC
VICE DIRECTOR



Lương Thanh Uyên

1. Các kết quả thử nghiệm ghi trong phiếu này chỉ có giá trị đối với mẫu do khách hàng gửi đến./ Test results are valid for the namely submitted sample(s) only.
2. Không được trích sao một phần phiếu kết quả thử nghiệm này nếu không có sự đồng ý bằng văn bản của Trung tâm Kỹ thuật 3.
This Test Report shall not be reproduced, except in full, without the written approval of Quatest 3.
3. Tên mẫu, tên khách hàng được ghi theo yêu cầu của nơi gửi mẫu./ Name of sample and customer are written as customer's request.
4. Độ không đảm bảo do mô rộng ước lượng được tính với $k = 2$, mức tin cậy 95 %. Khách hàng có thể liên hệ theo địa chỉ dưới để biết thêm thông tin.
Estimated expanded uncertainty of measurement with $k = 2$, at 95 % confidence level. Please contact Quatest 3 at the below address for further information.

N/A: không áp dụng.
Not applicable

Head Office: 49 Pasteur, Q1, Hồ Chí Minh City, VIỆT NAM Tel: (84-8) 3829 4274 Fax: (84-8) 3829 3012 Website: www.quatest3.com.vn
Testing: 7 Road 1, Biên Hòa 1 Industrial Zone, Đồng Nai Tel: (84-61) 383 6212 Fax: (84-61) 383 6298 E-mail: qt-dichvu@quatest3.com.vn

PHIẾU KẾT QUẢ THỬ NGHIỆM

TEST REPORT

Tên chỉ tiêu <i>Specification</i>		Phương pháp thử <i>Test method</i>	(A)	Giới hạn phát hiện <i>Limit of detection</i>	Kết quả thử nghiệm <i>Test result</i>
7.1	Hàm lượng nitrit (NO ₂ ⁻) <i>Nitrite content</i>	mg/L SMEWW ^(*) 2012 (4110 B)	3,0	0,02	Không phát hiện <i>Not detected</i>
7.2	Hàm lượng nitrat (NO ₃ ⁻) <i>Nitrate content</i>	mg/L SMEWW ^(*) 2012 (4110 B)	50	-	Nhỏ hơn 1,5 <i>Less than 0,1</i>
7.3	Hàm lượng clo dư (Cl ₂) <i>Chlorine content</i>	mg/L HACH Method 8021	5,0	-	0,1
7.4	Hàm lượng florua (F ⁻) <i>Fluoride content</i>	mg/L SMEWW ^(*) 2012 (4110 B)	1,5	0,2	Không phát hiện <i>Not detected</i>
7.5	Hàm lượng cyanua (CN ⁻) <i>Cyanide content</i>	mg/L HACH Method 8027	0,07	0,05	Không phát hiện <i>Not detected</i>
7.6	Hàm lượng bo (B) <i>Boron content</i>	mg/L SMEWW ^(*) 2012 (3120 B)	0,5	0,05	Không phát hiện <i>Not detected</i>
7.7	Hàm lượng bari (Ba) <i>Barium content</i>	mg/L SMEWW ^(*) 2012 (3120 B)	0,7	0,05	Không phát hiện <i>Not detected</i>
7.8	Hàm lượng mangan (Mn) <i>Manganese content</i>	mg/L SMEWW ^(*) 2012 (3120 B)	0,4	0,02	Không phát hiện <i>Not detected</i>
7.9	Hàm lượng đồng (Cu) <i>Copper content</i>	mg/L SMEWW ^(*) 2012 (3120 B)	2,0	0,05	Không phát hiện <i>Not detected</i>
7.10	Hàm lượng cadimi (Cd) <i>Cadmium content</i>	mg/L SMEWW ^(*) 2012 (3120 B)	0,003	0,002	Không phát hiện <i>Not detected</i>
7.11	Hàm lượng niken (Ni) <i>Nikel content</i>	mg/L SMEWW ^(*) 2012 (3120 B)	0,07	0,02	Không phát hiện <i>Not detected</i>
7.12	Hàm lượng chì (Pb) <i>Lead content</i>	mg/L SMEWW ^(*) 2012 (3120 B)	0,01	0,01	Không phát hiện <i>Not detected</i>
7.13	Hàm lượng crôm (Cr) <i>Chromium content</i>	mg/L SMEWW ^(*) 2012 (3120 B)	0,05	0,01	Không phát hiện <i>Not detected</i>
7.14	Hàm lượng selen (Se) <i>Selenium content</i>	mg/L SMEWW ^(*) 2012 (3114 C)	0,01	0,003	Không phát hiện <i>Not detected</i>
7.15	Hàm lượng molybden (Mo) <i>Molybdenum content</i>	mg/L SMEWW ^(*) 2012 (3120 B)	0,07	0,02	Không phát hiện <i>Not detected</i>
7.16	Hàm lượng antimon (Sb) <i>Antimoni content</i>	mg/L SMEWW ^(*) 2012 (3114 C)	0,02	0,003	Không phát hiện <i>Not detected</i>
7.17	Hàm lượng thủy ngân (Hg) <i>Mercury content</i>	mg/L SMEWW ^(*) 2012 (3112 B)	0,006	0,001	Không phát hiện <i>Not detected</i>
7.18	Hàm lượng asen (As) <i>Arsenic content</i>	mg/L SMEWW ^(*) 2012 (3114 C)	0,01	0,001	Không phát hiện <i>Not detected</i>
7.19	Hoạt độ phóng xạ α tổng <i>Gross α- radioactivity</i>	Bq/L QTTN/ KT3 072 : 2011	0,5	0,1	Không phát hiện <i>Not detected</i>
7.20	Hoạt độ phóng xạ β tổng <i>Gross β- radioactivity</i>	Bq/L QTTN/ KT3 072 : 2011	1,0	1,0	Không phát hiện <i>Not detected</i>
7.21	Hàm lượng bromat (BrO ₃ ⁻) <i>Bromate content</i>	μg/L SMEWW ^(*) 2012 (4110 D)	10	4,0	Không phát hiện <i>Not detected</i>
7.22	Hàm lượng clorat (ClO ₃ ⁻) <i>Clorate content</i>	μg/L SMEWW ^(*) 2012 (4110 D)	700	10	Không phát hiện <i>Not detected</i>
7.23	Hàm lượng clorit (ClO ₂ ⁻) <i>Clorite content</i>	μg/L SMEWW ^(*) 2012 (4110 D)	700	10	Không phát hiện <i>Not detected</i>



TRUNG TÂM KỸ THUẬT TIÊU CHUẨN ĐO LƯỜNG CHẤT LƯỢNG 3

QUALITY ASSURANCE & TESTING CENTER 3

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