

SIRIM QAS International Sdn.Bhd. (Company No.: 410334-X)
CHEMICAL TESTING SECTION, Building 16, No.1, Persiaran Dato' Menteri, P.O.Box 7035, Section 2, 40911 Shah Alam,
Selangor Darul Ehsan, Malaysia
Tel. no: 03-55446651/55446658 Fax. no: 03-55446688

TEST REPORT

REPORT NO. : 2004KL0569

PAGE : 1 OF 2

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Applicant : HYDRO ONE RESOURCES SDN. BHD.
62 & 62A, Jalan ½
Rawang Integrated Industrial Park
48000 Rawang, Selangor

Product : Water Filter

Reference standard/ : In-house Method
Method of test : Determining Count Reduction of *Escherichia Coli*

Description of sample: Received one (1) sample of **Water Filter** for testing which was labeled as:
Brand : Hydro One
Model : H₂O Membrane Filter (POE)

Date received : 28th May 2004

Job No. : 04TSC2362

Issue date : 14th June 2004

(HAHNAS MAHBUT)
Senior Technical Executive

(DR. PUZIAH HASHIM)
Senior Manager
Chemical Testing Section
Building 16
SIRIM QAS International Sdn. Bhd.

TEST REPORT

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Test Result

Sample : Water Filter

Brand : Hydro One

Model : H₂O Membrane Filter (POE)

No.	Type of Test	Results	
		* Water before filtration	Water after Filtration
1.	<i>Escherichia coli</i> count per ml	4.8 x 10 ⁴ cfu/ml	Less than 10 cfu/ml

Note : * Water before filtration is distilled water spiked with *Escherichia coli* organisms



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Senior Technical Executive
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SIRIM QAS International Sdn. Bhd.



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TEST REPORT

REPORT NO. : 2004KL0575

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Applicant : HYDRO ONE RESOURCES SDN. BHD.
62 & 62A, Jalan ½
Rawang Integrated Industrial Park
48000 Rawang
Selangor Darul Ehsan

Product : Water

Reference standard / : Standard Methods for the Examination of Water and
Method of test : Wastewater 1992, 18th Edition Jointly Published by APHA,
AWWA and WEF


Description of sample: Received three (3) samples for testing which were sampled
from a water filter. The samples were marked:
Brand : HYDRO ONE
Model : H₂O Membrane Filter (POE)
Marking : 1) Before filter
2) After Filter
3) Backwash Water

Date received : 28th May 2004

Job No. : 04TSC2364

Issue date : 16th June 2004


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(**KUZIAH AHMAD, AMIC**)
Senior Technical Executive


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for (**DR. PUZIAH HASHIM**)
Senior Manager
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Test Results

Sample : Water Filter

Brand : HYDRO ONE

Model : H₂O Membrane Filter (POE)

Marking : Before Filter

<i>No.</i>	<i>Type of Tests</i>	<i>Method Used</i>	<i>Test Results</i>
1.	Turbidity (NTU)	APHA 2130 B	2.2
2.	Total dissolved solids (TDS), mg/L	APHA 2540 C	60.0
3.	Total viable aerobic bacteria count, cfu/ml	Colony Count Technique	Less than 10



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TEST REPORT

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Test Results

Sample : Water Filter

Brand : HYDRO ONE

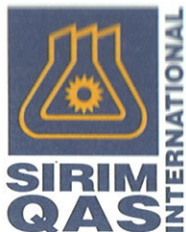
Model : H₂O Membrane Filter (POE)

Marking : After Filter

<i>No.</i>	<i>Type of Tests</i>	<i>Method Used</i>	<i>Test Results</i>
1.	Turbidity (NTU)	APHA 2130 B	0.5
2.	Total dissolved solids (TDS), mg/L	APHA 2540 C	51.8
3.	Total viable aerobic bacteria count, cfu/ml	Colony Count Technique	Less than 10



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TEST REPORT

REPORT NO. : 2004KL0570

PAGE : 1 OF 2

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Applicant : HYDRO ONE RESOURCES SDN. BHD.
62 & 62A, Jalan 1/2
Rawang Integrated Industrial Park
48000 Rawang, Selangor

Product : Water Filter


Reference standard/ : In-house Method
Method of test : Determining Count Reduction of *Escherichia Coli*

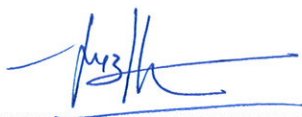
Description of sample: Received one (1) sample of **Water Filter** for testing which was labeled as:
Brand : Hydro One
Model : H₂O Membrane Filter (POU)

Date received : 28th May 2004

Job No. : 04TSC2363

Issue date : 14th June 2004


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Senior Technical Executive


.....
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Chemical Testing Section
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TEST REPORT

REPORT NO. : 2004KL0570

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Test Result

Sample : Water Filter

Brand : Hydro One

Model : H₂O Membrane Filter (POU)

No.	Type of Test	Results	
		* Water before filtration	Water after Filtration
1.	<i>Escherichia coli</i> count per ml	5.8 x 10 ⁴ cfu/ml	4.6 x 10 ¹ cfu/ml

Note : * Water before filtration is distilled water spiked with *Escherichia coli* organisms



HAHNAS MAHBUT
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CHEMSIL AIR & WATER SDN BHD (515400-V)

33, Jalan Kota Raja H27/H, Taman Alam Megah, Seksyen 27, 40400 Shah Alam, Selangor Darul Ehsan, Malaysia.
Tel: +6(03) 5192 3500 / +6(03) 5192 5300 Fax: +6(03) 5192 4600 email: info@chemsil.net

CERTIFICATE OF ANALYSIS

OUR REF. : CAW/W/1112/17145
COMPANY : **HYDRO ONE MARKETING SDN. BHD**
ATTN : **MR. K H LEE**
SOURCE OF WATER : **Pond Water at Construction Site**
TREATED WATER : **Filter by Hydro One Ultrafiltration (UF)
Membrane Water Filter (PAN)**
CLIENT : **Hydro One, on Behalf of Golden Season Pte. Ltd, Singapore.**
SAMPLE MARKING : **1. NON-TREATED WATER
2. FILTERED (TREATED WATER)**
RECEIVED DATE : **7TH DECEMBER 2011**
REPORTED DATE : **17TH DECEMBER 2011**

On analysis of the sample (s) received, the result (s) obtained as follows :-

Test Parameters	units	Methods	Results	
			1	2
Physical Standard:				
Turbidity	NTU	APHA 2130 B	212	0.6
Chemical standard:				
pH @ 27.8°C	-	APHA 4500 H ⁺ B	6.08	6.19
Iron as Fe	mg/l	APHA 3120 B	4.36	ND (<0.07)
Chloride (as Cl)	mg/l	APHA 4500 C1-B	6.3	5.4
Total Hardness as CaCO ₃	mg/l	APHA 2340 B	ND (<2)	ND (<2)
Ammonia as N	mg/l	APHA 4500 NH ₃ B,C	ND (<0.2)	ND (<0.2)
Nitrate	mg/l	HACH 8192	1.82	1.68
Nitrite	mg/l	HACH 8507	0.23	0.20

NOTE :

- 1) ND means Not Detected
- 2) APHA means American Public Health Association, Standard Method For Examination of Water and Wastewater, 21st Edition (2005).
- 3) Based on the above laboratory findings as represented by the sample collected, it is found that the sample is within accepted limit governed under the Malaysia Food Act, 25th Schedule Standard for Water and Packaged Drinking Water .
- 4) Opinion and Interpretation expressed herein are outside the scope of SAMM accreditation . The above results relate only to the items tested as received sample . This reports shall not be reproduced, without the written approval of Chemsil (Air & Water) Sdn Bhd

Approved Signatories

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Approved Signatory



- Pharmaceutical, Environmental & Food Testing Services
- Indoor Air Quality & Industrial Hygiene Microbiology Testing Services
- Analytical Laboratory Testing Services
- Clean Room and Associated Testing Services
- Microbiology Testing Services