



PHOENIX
GRAVITY

Third-party Lab Reports
Carbon Filter Cartridge

Environmental Monitoring Service

Testing and research laboratory for water, soil and food products

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Test Report

Customer name: Rama Pure Water P.
Ltd.,
Nature of sample: Phoenix Carbon Filter

Analysis started: 22/02/2023
Analysis completed: Mention below
Sample collected: By lab person
Lab ID: 049

Objective: To find out efficiency of the water filters 1 and 2 for the removal of the chlorine, lead and E. coli.

Procedure: Filters were conditioned by passing 10 L tap water and checked for flow rate before trial started.

Chemical parameters:

Tap water having TDS 178 mg/l and pH 6.7 was used. Spiked concentration for chlorine and lead in the table.

Microbiological Parameter:

The stabilized tap water was spiked with E. coli more than 1 million/100 ml, after passing spike water for 10 minutes samples were collected and tested for removal rate.

Both chemical and microbiological tests are run separately

Filters ID: Sl. No.1 - PCC8/FX20230106, Sl. No. 2 - PCC8/FX20230107.

Sl. No.	Sample ID	Flow rate L/hr.	Removal %		
			Free Cl ⁻	Lead (as Pb)	E. coli
50 L (23-02-2023) Spike: free chlorine 3 mg/L & lead 0.2 mg/L					
1	1	5.0	99.9	99.9	99.9998
2	2	5.6	99.9	99.9	99.9998
500 L (03-03-2023) Spike: free chlorine 3 mg/L & lead 0.2 mg/L					
3	1	5.0	99.9	99.9	99.9996
4	2	5.6	99.9	99.9	99.9994
1000 L (18-03-2023) Spike: free chlorine 3 mg/L & lead 0.2 mg/L					
5	1	3.6	99.9	99.9	99.9997
6	2	3.9	99.9	99.9	99.9998
2000 L (08-04-2023) Spike: free chlorine 3 mg/L & lead 0.2 mg/L					
7	1	3.9	99.9	99.9	99.9998
8	2	4.1	99.9	99.9	99.9992
3000 L (04/05/2023) Spike: free chlorine 3 mg/L & lead 0.2 mg/L					
9	1	3.6	99.9	99.9	99.79
10	2	3.9	99.9	99.9	99.93
4000 L (07/07/2023) Spike: free chlorine 3 mg/L & lead 0.2 mg/L					
11	1	3.5	99.9	99.9	-
12	2	3.6	99.9	99.9	-

5000 L (08/08/2023) Spike free chlorine: 15 mg/L & lead 1.0 mg/L					
13	1	3.4	99.9	99.9	-
14	2	3.3	99.9	99.9	-

6000 L (10/10/2023) Spike free chlorine: 15 mg/L & lead 1.0 mg/L					
13	1	3.3	96.3	96.1	-
14	2	3.2	97.1	95.5	-

Method of testing:

Free Chlorine - APHA 20, 4500-CL

Lead - APHA 20, 3111-Pb

E.coli - IS-15185:20021 ISO -9308-1:2000

Analyst 

Lab executive 

