

Environmental Monitoring Service

Testing and research laboratory for water, soil and food products

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Test Report

Customer name: Affordable Water
Solutions
Nature of sample: Treated water
by AuroPure

Sample received: 7/11/16
Analysis completed: 9 /11/16
Sample collected: By lab person
Lab ID: 445

Objective:

To examine the efficiency of water treatment system AuroPure for Arsenic removal.

Procedure Arsenic only presents: Tap water was spiked with mix Arsenic 3&5 - 500 ug/L (As^{3+} 250 ug/L and As^{5+} 250 ug/L) and treated by AuroPure.

Procedure Arsenic with presence of iron: Tap water was spiked with mix Arsenic 3 & 5 - 500 ug/L (As^{3+} 250 ug/L and As^{5+} 250 ug/L). Iron was added 5 mg/L (Fe^{2+}) and treated by AuroPure.

Method of testing:

Iron by AAS direct aspiration method.

Arsenic by Atomic Absorption, Hydride Generation method.

Results are tabulated below.

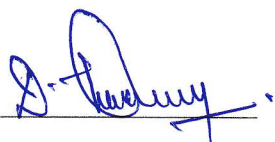
Arsenic only present

Parameters	Initial concentration, ug/L	After Treatment ug/L	Removal rate after treatment %
Arsenic (as As)	500	9.1	98.18

Arsenic with presence of iron

Parameters	Initial concentration, ug/L	After Treatment ug/L	Removal rate after treatment %
Iron (as Fe)	5000	200	97.6
Arsenic (as As)	500	8.2	98.4

Analyst



Lab executive

