



# ENVIROTEK LABORATORIES, INC.

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EPA ID # NJ01298 NJ DEP ID # 03048

## AURO ALUMINUM AND IRON REDUCTION TEST REPORT

Report # 15-160-2-Aluminum and Iron Test (Auro Solution)

Customer Name: Auro, LLC

Report Date: July 3, 2015

### EXECUTIVE SUMMARY

Tap water was tested for Aluminum and Iron content following the EPA method 200.9, Auro was added to the tap water at a concentration of 1 mL of Auro per one liter of tap water and the solution was tested after 24 hours of adding the Auro Solution, the content of Aluminum and Iron were found above the EPA drinking water safe limits. This water solution was filtered through the Auro filtration system and the filtered water was tested for Aluminum and Iron content, the filtration system reduced the Aluminum and Iron content within the EPA drinking water safe limits.

### INTRODUCTION

Tap water was tested for Aluminum and Iron content following the EPA method 200.9, Auro was added to the tap water at a concentration of 1 mL of Auro per one liter of tap water and the solution was tested after 24 hours of adding the Auro Solution, the content of Aluminum and Iron were found above the EPA drinking water safe limits. This water solution was filtered through the Auro filtration system and the filtered water was tested for Aluminum and Iron content, the filtration system reduced the Aluminum and Iron content within the EPA drinking water safe limits.

### REAGENTS AND LAB EQUIPMENT

Perkin Elmer SIMAA 6000 Atomic Absorption Spectrophotometer.

Aluminum and Iron Certified Standard Solution.

Auro Solution.

Auro Water Filtration System.

### PROCEDURE

Tap water was tested as is for Aluminum and Iron content. One mL of Auro Solution was added to the tap water at a concentration of 1 mL per Liter of tap water; the solution was mixed well and set undisturbed for 24 hours. A sample of this solution was tested for Aluminum and Iron content. This solution was filtered through the Auro water filtration system, a sample of this filtered water was tested for Aluminum and Iron content.

The results are summarized in the table below.

### RESULTS

The Aluminum and Iron concentrations for tap water, Auro Solution, and Filtered Water Solution are summarized in the following table:

Parameter Tested	Tap Water	Auro Water Solution 1 mL/L after 24 hrs.	Filtered Water Solution	EPA Drinking Water Maximum Contaminant Limit (MCL)	EPA Method
Aluminum	0.003 mg/L	1.48 mg/L	0.118 mg/L	0.200 mg/L	EPA 200.9
Iron	<0.002 mg/L	5.15 mg/L	0.125 mg/L	0.300 mg/L	EPA 200.9



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## CONCLUSION

The Auro Solution contains high levels of Aluminum and Iron when added to tap water at a dilution of 1 mL per 1,000 mL of tap water; however, after filtrating the solution through the H<sub>2</sub>O Technologies water filtration system the concentration of Aluminum and Iron are reduced within the EPA drinking water Maximum Contaminant Levels (MCL), making the filtered solution safe to drink.

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