

DATE: March 9, 2000

CLIENT: New Millennium Concepts LTD

CONTACT: Mr. Jim Shepherd

PROJECT NO.: 2233  
COLLECTED BY: CK, GJ, JJ  
PROJECT DESC.: New Millennium,  
Black Berkey Filter  
Formulation

Enclosed, Please find our laboratory analysis report regarding the evaluation of "the Black Berkey Filter Formulation for chlorine & high pH & alkalinity lead, volatile organic compounds (VOC), and Trihalomethanes reduction. Each unit was evaluated for each parameter according to test protocol published by National Sanitation Foundation (NSF) International.

## High pH & Alkalinity Lead Reduction

Sample #, Desc.	Lead (EPA 200.8) Units = mg/L	Date Collected	Date Received	Date Analyzed
30495-1, initial influent	0.14	01/25/00	01/26/00	01/26/00
30495-3, initial 2233-6	<0.001	01/25/00	01/26/00	01/26/00
30495-4, 5 gallon influent	0.17	02/02/00	02/03/00	02/04/00
30495-6, 5 gallon 2233-6	<0.001	02/02/00	02/03/00	02/04/00
30495-7, 10 gallon influent	0.17	02/02/00	02/03/00	02/04/00
30495-9, 10 gallon 2233-6	<0.001	02/02/00	02/03/00	02/04/00
30495-10, 15 gallon influent	0.16	02/02/00	02/03/00	02/04/00
30495-12, 15 gallon 2233-6	0.001	02/02/00	02/03/00	02/04/00
30495-15, 20 gallon influent	0.17	02/03/00	02/03/00	02/04/00
30495-17, 20 gallon 2233-6	0.001	02/03/00	02/04/00	02/15/00
30495-13, 25 gallon influent	0.17	02/03/00	02/03/00	02/04/00
30495-18, 25 gallon 2233-6	0.006	02/03/00	02/04/00	02/15/00

2233-6 = Black Berkey Filter Formulation

EPA means Environmental Protection Agency, which is the analytical method used in the evaluation. mg/L means Milligrams Per Liter, which is equivalent to Parts Per Million (ppm).

## VOC Reduction by Chloroform Surrogate

Chloroform is the surrogate for all VOC's & Trihalomethanes

Sample #, Desc.	Chloroform (EPA 502.2) Units = mg/L	Date Collected	Date Received	Date Analyzed
30878-1, initial influent	0.17	02/09/00	02/10/00	02/20/00
30878-2, initial 2233-3	<0.0005	02/09/00	02/10/00	02/20/00
30878-5, 10 gallon influent	0.26	02/09/00	02/14/00	02/21/00
30878-6, 10 gallon 2233-3	<0.0005	02/09/00	02/14/00	02/21/00
30878-7, 15 gallon influent	0.21	02/09/00	02/14/00	02/21/00
30878-8, 15 gallon 2233-3	<0.0005	02/09/00	02/14/00	02/21/00
30878-9, 20 gallon influent	0.40	02/10/00	02/14/00	02/22/00
30878-10, 20 gallon 2233-3	0.0005	02/10/00	02/14/00	02/22/00
30878-11, 25 gallon influent	0.38	02/11/00	02/16/00	02/22/00
30878-12, 25 gallon 2233-3	0.0056	02/11/00	02/16/00	02/22/00

2233-3 = Black Berkey Filter Formulation

EPA means Environmental Protection Agency, which is the analytical method used in the evaluation. mg/L means Milligrams Per Liter, which is equivalent to Parts Per Million (ppm).

## Chlorine Reduction

Sample #, Desc.	Chlorine (SM 4500Cl F) Units = mg/L	Date Collected	Date Received	Date Analyzed
30461-1, initial influent	2.0	01/24/00	01/24/00	01/24/00
30461-3, initial 2233-5	<0.01	01/24/00	01/24/00	01/24/00
30461-4, 5 gallon influent	2.0	02/01/00	02/01/00	02/01/00
30461-6, 5 gallon 2233-5	<0.01	02/01/00	02/01/00	02/01/00
30461-7, 10 gallon influent	2.0	02/02/00	02/02/00	02/02/00
30461-9, 10 gallon 2233-5	<0.01	02/02/00	02/02/00	02/02/00
30461-10, 15 gallon influent	2.0	02/02/00	02/02/00	02/02/00
30461-12, 15 gallon 2233-5	<0.01	02/02/00	02/02/00	02/02/00
30461-13, 20 gallon influent	2.0	02/02/00	02/02/00	02/02/00
30461-15, 20 gallon 2233-5	<0.01	02/02/00	02/02/00	02/02/00
30461-16, 25 gallon influent	2.0	02/02/00	02/02/00	02/02/00
30461-18, 25 gallon 2233-5	<0.01	02/02/00	02/02/00	02/02/00
30461-19, 30 gallon influent	2.0	02/02/00	02/02/00	02/02/00
30461-21, 30 gallon 2233-5	<0.01	02/02/00	02/02/00	02/02/00
30461-22, 35 gallon influent	2.0	02/02/00	02/02/00	02/02/00
30461-24, 35 gallon 2233-5	<0.01	02/02/00	02/02/00	02/02/00
30461-25, 40 gallon influent	2.0	02/02/00	02/02/00	02/02/00
30461-27, 40 gallon 2233-5	<0.01	02/02/00	02/02/00	02/02/00
30461-28, 45 gallon influent	2.0	02/03/00	02/03/00	02/03/00
30461-30, 45 gallon 2233-5	<0.01	02/03/00	02/03/00	02/03/00
30461-31, 50 gallon influent	2.0	02/03/00	02/03/00	02/03/00
30461-33, 50 gallon 2233-5	<0.01	02/03/00	02/03/00	02/03/00
30461-34, 55 gallon influent	2.0	02/03/00	02/03/00	02/03/00
30461-36, 55 gallon 2233-5	<0.01	02/03/00	02/03/00	02/03/00
30461-37, 60 gallon influent	2.0	02/03/00	02/03/00	02/03/00
30461-39, 60 gallon 2233-5	<0.01	02/03/00	02/03/00	02/03/00
30461-40, 65 gallon influent	2.0	02/03/00	02/03/00	02/03/00
30461-42, 65 gallon 2233-5	<0.01	02/03/00	02/03/00	02/03/00
30461-43, 70 gallon influent	2.0	02/03/00	02/03/00	02/03/00
30461-45, 70 gallon 2233-5	<0.01	02/04/00	02/04/00	02/04/00
30461-46, 75 gallon influent	2.0	02/03/00	02/03/00	02/03/00
30461-48, 75 gallon 2233-5	<0.01	02/04/00	02/04/00	02/04/00
30461-49, 80 gallon influent	2.0	02/03/00	02/03/00	02/03/00
30461-51, 80 gallon 2233-5	<0.01	02/04/00	02/04/00	02/04/00
30461-52, 85 gallon influent	2.0	02/04/00	02/04/00	02/04/00
30461-54, 85 gallon 2233-5	<0.01	02/07/00	02/07/00	02/07/00
30461-57, 90 gallon influent	2.0	02/07/00	02/07/00	02/07/00
30461-58, 90 gallon 2233-5	<0.01	02/07/00	02/07/00	02/07/00
30461-61, 95 gallon influent	2.0	02/07/00	02/07/00	02/07/00
30461-62, 95 gallon 2233-5	<0.01	02/07/00	02/07/00	02/07/00
30461-65, 100 gallon influent	1.8	02/08/00	02/08/00	02/08/00
30461-66, 100 gallon 2233-5	<0.01	02/08/00	02/08/00	02/08/00

2233-5 = Black Berkey Filter formulation

SM means Standard Methods for the Examination of Water and Wastewater, which is the analytical method used in the evaluation. mg/L means Milligrams Per Liter, which is equivalent to Parts Per Million (ppm).