

PRECIPITATION SAMPLES 1/14/2011 METAL ANALYSIS by ICP-OES all results in mg/L									
Sample Labels	Ag	Al	As	B	Ba	Be	Cd	Co	
20-11-1	<0.0002	0.015	<0.006	0.010	0.0008	<0.00002	<0.0002	<0.0004	
20-11-2	<0.0002	0.082	<0.006	0.007	0.0038	<0.00002	<0.0002	<0.0004	
20-11-3	<0.0002	0.013	<0.006	0.005	0.0009	<0.00002	<0.0002	<0.0004	
20-11-4	<0.0002	0.020	<0.006	0.004	0.0014	<0.00002	<0.0002	<0.0004	
Sample Labels	Cr	Cu	Fe	Mn	Ni	Pb	Se	Zn	
20-11-1	<0.0003	<0.002	0.0103	0.00224	<0.0006	<0.002	<0.01	0.0034	
20-11-2	0.0007	<0.002	0.0708	0.01130	0.0008	<0.002	<0.01	0.0047	
20-11-3	0.0008	<0.002	0.0100	0.00109	<0.0006	<0.002	<0.01	0.0021	
20-11-4	0.0006	<0.002	0.0200	0.00126	<0.0006	<0.002	<0.01	0.0020	

Greetings, M&M:

Here is my interpretation of these numbers from Long Island, New York:

Take all numbers, move decimal 3 pts to right for a reading in parts per billion, or ug/l.

This is a typical "light" contrail spray result. For a better idea of what's happening, get the water from several days of rain after a contrail event. This usually is just in advance of a weather front coming in so they can get more reflectivity on the nanoparticles. Take the sample until the rain passes.

Of course, the results are highest for aluminum and barium, the Welsbach materials. Nobody is doing commercial [cloud seeding](#) because the Silver (Ag) is low. The other stuff is interesting as probable compounds used in military sprays. The iron and manganese is a surprise, don't believe we looked at that before. However, it's likely not very dangerous. The arsenic and boron we have seen before when we test for it, and it is a concern. The elements with 3 zeros in front of the number are likely background chatter contamination and not important, or the test could not detect enough to take a measurement.

Please post my answer on appropriate website and forward to interested parties. It's low compared to what we get up here, but very interesting because they looked at many more compounds. I'd like to see what they got for Strontium! It's the third Welsbach element. Francis