

Appendix I

Lumex Calibration Verification and Background Instrument Contamination Check

Lumex Serial Number: 254 Instrument Used for study room one foot intake
 Factory Calibration Date April 4, 2007

Date	Time	S _k ^a	S _i ^b	%R ^c	Background
5/23/07	9 AM	1675	1657	<1	<20
5/23/07	4 PM	2975	2712	8	<20
5/24/07	8 AM	1625	1652	<1	<20
5/24/07	3 PM	3125	2880	7	<20
5/25/07	8:19 AM	1910	1907	1	<20
5/25/07	3:35 AM	4710	4047	14	<20
5/29/07	8:30 AM	2255	2181	3	<20
5/30/07	7:30 AM	2880	2719	5	<20
5/30/07	3:13 AM	3750	3409	9	<20
5/30/07	7:40 AM	2145	2076	3	<20
6/1/07	8 AM	2975	2772	6	<20
6/1/07	4 PM	3690	3292	9	<20
6/4/07	8 AM	2040	2001	1	<20
6/4/07	4:30 PM	2485	2405	3	<20
6/5/07	7:30 AM	1625	1633	0	<20
6/6/07	7:45 AM	2485	2376	6	<20
6/7/07	7:30 AM	2215	2165	2	<20
6/8/07	7:30 AM	2445	2372	3	<20
6/8/07	3:20 PM	3340	3074	7	<20
6/11/07	7:45 AM	2145	2067	3	<20
6/12/07	AM	3125	2891	7	<20
6/13/07	AM	2975	2773	7	<20
6/13/07	PM	3125	2917	8	<20
6/14/07	AM	1880	1853	2	<20
6/15/07	AM	2570	2452	4	<20
6/15/07	PM	3510	3215	9	<20
6/18/07	AM	2445	2293	7	<20
6/19/07	AM	3075	2847	7	<20
6/19/07	PM	4710	4007	14	<20
6/21/07	AM	2290	2190	4	<20
6/21/07	PM	4200	3699	11	<20
6/22/07	AM	2445	2332	4	<20
6/25/07	AM	2330	2243	3	<20
6/26/07	AM	3340	3045	8	<20
6/28/07	AM	3285	2976	9	<20
7/2/07	AM	2405	2291	4	<20
7/3/07	AM	2835	2651	6	<20
7/3/07	PM	4070	3588	11	<20
7/5/07	AM	2655	2485	6	<20
7/6/07	AM	2745	2558	6	<20

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Date	Time	S _k ^a	S _i ^b	%R ^c	Background
7/6/07	4:40 PM	4710	4018	13	25/ <20
7/9/07	AM	2145	2063	3	<20
7/10/07	AM	2700	2558	5	<20
7/10/07	PM	3630	3247	10	<20
7/19/07	AM	2525	2439	3	<20
7/25/07	AM	2445	2335	4	<20
7/26/07	AM	2675	2500	5	<20
7/30/07	AM	2950	2733	6	<20
7/31/07	AM	3025	2790	7	<20
8/2/07	PM	3125	2875	7	<20
8/3/07	PM	3285	2941	10	20

a S_k = Mercury concentration (theoretical) calculated based on internal instrument temperature.

b S_i = 10 second mercury concentration measured by the instrument

c %R = relative percent difference between the theoretical and actual mercury concentration. %R must be below 20%

Lumex Serial Number: 329 Instrument Used for study room five foot intake
Factory Calibration Date October 28, 2005

Date	Time	S _k ^a	S _i ^b	%R ^c	Background
5/23/07	9 AM	2290	2601	11	<20
5/23/07	3 PM	4070	4446	9	<20
5/24/07	8 AM	2290	2511	9	<20
5/24/07	3 PM	4640	4810	3	<20
5/25/07	8:19 AM	2655	2923	8	<20
5/25/07	3:35 PM	6870	6688	2	<20
5/29/07	8:30 AM	3075	3382	10	<20
5/29/07	3:27 PM	5640	5759	1	<20
5/30/07	7:40 AM	2930	3192	8	<20
5/30/07	3:80 PM	5830	5839	1	<20
5/31/07	7:40 AM	2975	3199	9	<20
6/1/07	8 AM	4496	4689	4	<20
6/1/07	4 PM	5640	5649	<1	<20
6/4/07	8 AM	2790	3077	10	<20
6/4/07	4:30 PM	3930	4178	6	27/ <20
6/5/07	7:30 AM	2290	2487	10	<20
6/6/07	7:45 AM	3816	4071	8	<20
6/7/07	7:30 AM	3516	3738	6	<20
6/8/07	7:30 AM	3630	3867	6	<20
6/8/07	3:00 PM	5030	4999	0	<20
6/11/07	7:45 AM	2975	3064	3	<20
6/12/07	AM	4648	4790	1	<20
6/12/07	PM	6130	6002	2	<20
6/13/07	AM	3075	3289	5	<20
6/13/07	PM	4870	4933	1	<20
6/14/07	AM	2655	2793	5	<20

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Date	Time	S _k ^a	S _i ^b	%R ^c	Background
6/15/07	AM	3930	4104	6	<20
6/15/07	PM	5550	5460	1	<20
6/18/07	AM	3395	3425	1	<20
6/19/07	AM	4710	4790	3	<20
6/19/07	PM	7100	6733	3	<20
6/21/07	AM	3125	3295	5	<20
6/21/07	PM	6330	6141	4	<20
6/25/07	AM	3125	3295	5	<20
6/26/07	AM	4950	4990	<1	<20
6/28/07	AM	4560	4573	<1	<20
7/2/07	AM	3340	3498	3	<20
7/3/07	AM	4270	4374	4	<20
7/3/07	PM	6130	5954	4	<20
7/5/07	1:30 PM	3690	3741	1	<20
7/6/07	AM	3930	4000	1	29/ <20
7/6/07	4:40 PM	6870	6570	4	<20
7/9/07	AM	2975	3154	6	<20
7/10/07	AM	4130	4320	2	<20
7/10/07	PM	5370	5363	<1	<20
7/11/07	AM	3075	3158	4	<20
7/12/07	AM	3510	3650	3	<20
7/13/07	AM	3570	3684	3	<20
7/16/07	AM	3395	3617	8	<20
7/17/07	AM	3395	3640	7	<20
7/18/07	AM	3450	3721	7	<20
7/19/07	AM	3180	3442	6	<20
7/20/07	AM	5370	5377	<1	<20
7/23/07	AM	3285	3506	4	<20
7/24/07	AM	5120	5155	<1	<20
7/25/07	AM	5800	5683	2	<20
7/26/07	AM	6540	6269	5	<20
7/30/07	AM	4340	4437	2	<20
7/30/07	PM	9230	8249	12	<20
8/1/07	PM	3075	2867	8	<20
8/2/07	PM	3125	2875	7	<20
8/3/07	PM	3285	2941	10	<20
8/7/07	PM	2930	2721	7	<20
8/9/07	PM	2700	2559	5	<20
8/10/07	PM	3570	3721	4	<20
8/14/07	AM	3630	3789	6	<20

a S_k = Mercury concentration (theoretical) calculated based on internal instrument temperature.

b S_i = 10 second mercury concentration measured by the instrument

c %R = relative percent difference between the theoretical and actual mercury concentration. %R must be below 20%

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Lumex Serial Number: 215 3rd Instrument
 Factory Calibration Date: April 4, 2007

Date	Time	S _k ^a	S _i ^b	%R ^c	Background
5/24/07	AM	2145	2185	2	<20
5/25/07	AM	2145	2197	2	<20
5/31/07	AM	2290	2378	3	<20
5/31/07	PM	2745	2715	1	<20
6/1/07	AM	2330	2339	<1	<20
6/4/07	AM	2110	2119	<1	<20
6/5/07	AM	2075	2189	5	<20
6/6/07	AM	2110	2135	1	<20
6/7/07	AM	2040	2101	3	<20
6/8/07	AM	2145	2133	1	<20
6/11/07	AM	2365	2384	<1	<20
6/12/07	AM	2330	2326	1	<20
6/13/07	AM	2330	2294	1	<20
6/14/07	AM	2255	2285	1	<20
6/15/07	AM	2255	2274	<1	<20
6/18/07	AM	2445	2406	<1	<20
6/19/07	AM	2445	2466	<1	<20
6/21/07	AM	2485	2474	1	<20
6/25/07	AM	2330	2314	<1	<20
6/26/07	AM	2525	2540	<1	<20
6/26/07	PM	2655	2640	1	<20
6/27/07	AM	2655	2634	<1	<20
6/27/07	PM	3340	3213	3	<20
6/28/07	AM	2880	2772	2	<20
6/29/07	AM	2790	2706	4	<20
7/2/07	AM	2525	2567	1	<20
7/3/07	AM	2525	2540	<1	<20
7/5/07	AM	2700	2650	1	<20
7/6/07	AM	2610	2592	2	<20
7/9/07	AM	2485	2467	<1	<20
7/10/07	AM	2445	2439	<1	<20
7/20/07	AM	4130	3952	2	<20
7/23/07	AM	2525	2487	1	<20
7/24/07	AM	3750	3682	3	<20
7/30/07	AM	3230	3035	5	<20

a S_k = Mercury concentration (theoretical) calculated based on internal instrument temperature.

b S_i = 10 second mercury concentration measured by the instrument

c %R = relative percent difference between the theoretical and actual mercury concentration. %R must be below 20%