



January 27, 2020

School District of Philadelphia  
Office of Environmental Management & Services  
440 N. Broad Street  
Suite 373  
Philadelphia, PA 19130

**ATTENTION:** Mr. Brian Joseph

**REFERENCE:** Dust Monitoring  
Benjamin Franklin High School – ULCS #2010  
550 North Broad Street, Philadelphia, PA  
Criterion's Project Number: **192440**

Dear Mr. Joseph,

On January 20, 21, 22, 23 and 24, 2020, Ms. Alyssa Cartagena of Criterion Laboratories, Inc. (Criterion) conducted particulate dust monitoring in and around various construction areas at Benjamin Franklin High School.

The dust monitoring was conducted using the Met One Aerocet-531S Mass Particle Counter/Dust Monitor. This monitor measures PM 1, PM 2.5, PM 7, PM 10 (respirable dust) and Total Dust. The results for this monitoring are attached to this report.

### **Current Federal Regulations**

Occupational Safety and Health Administration (OSHA) has set a limit of 5 milligrams/cubic meter (mg/m<sup>3</sup>) for PM 10 (respirable dust) and 15 mg/m<sup>3</sup> for Total Dust.

The American Conference of Governmental Industrial Hygienists (ACGIH) has set a threshold limit value (TLV) over an average 8 hour work day over a 40 hour work week of 10 mg/m<sup>3</sup> for Total Dust.

The Environmental Protection Agency (EPA) sets a limit of 35 mg/m<sup>3</sup> for PM 2.5 over a 24 hour period and 150 mg/m<sup>3</sup> for PM 10 over a 24 hour period.

### **Baseline Levels**

On September 21, 2019, baseline levels of various particulates were established while the school was empty of all students, staff and construction personnel. The highest baseline levels recorded outside the work area for PM 10 (respirable dust) and Total Dust plus 50% of this initial highest reading will be used to compare dust levels to the non-construction areas for the remainder of the project.

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If the PM 10 or the Total Dust level of dust is found to be higher than the following baseline levels, corrective action must be taken to prevent continued elevated dust levels.

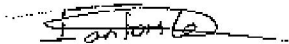
The baseline level to be used for comparison is 0.277mg for PM 10 and 0.413 mg for Total Dust (TD).

**Conclusion**

All readings collected during the week of January 20, 2020, to January 24, 2020 were found to be below the baseline level and within the OSHA ACGIH, EPA limits.

Should you have any questions or concerns, please feel free to contact me at (215) 244-1300, extension 1033.

Sincerely,



Ian Forster  
Project Manger

Attachment

Benjamin Franklin High School (UCLS# 2010)

Date of Sampling

20-Jan Criterion Project Number

192440

Location	Time	PM 1 (mg)	PM 2.5 (mg)	PM 7 (mg)	PM 10 (mg)	Total Dust (mg)	Comments
outdoors	8:12	0.002	0.006	0.018	0.021	0.054	
Basement Elevator Lobby	8:16	0.003	0.009	0.063	0.094	0.127	
1st Floor Elevator Lobby	8:20	0.002	0.005	0.043	0.059	0.072	
2nd Floor Elevator Lobby	8:24	0.002	0.004	0.036	0.061	0.084	
3rd Floor Elevator Lobby	8:30	0.002	0.006	0.049	0.067	0.085	
4th Floor Elevator Lobby	8:35	0.002	0.005	0.039	0.057	0.07	
5th Floor Elevator Lobby	8:39	0.004	0.007	0.062	0.085	0.11	
6th Floor Elevator Lobby	8:44	0.003	0.011	0.086	0.125	0.176	
Basement Elevator Lobby	11:26	0.003	0.012	0.105	0.127	0.206	
1st Floor Elevator Lobby	11:31	0.002	0.005	0.054	0.073	0.097	
2nd Floor Elevator Lobby	11:35	0.002	0.003	0.041	0.059	0.071	
3rd Floor Elevator Lobby	11:38	0.002	0.004	0.038	0.055	0.084	
4th Floor Elevator Lobby	11:44	0.002	0.004	0.032	0.045	0.068	
5th Floor Elevator Lobby	11:47	0.002	0.005	0.059	0.086	0.095	
6th Floor Elevator Lobby	11:52	0.004	0.009	0.086	0.116	0.169	
Basement Elevator Lobby	14:17	0.002	0.007	0.085	0.097	0.121	
1st Floor Elevator Lobby	14:23	0.002	0.004	0.037	0.056	0.078	
2nd Floor Elevator Lobby	14:28	0.002	0.003	0.041	0.062	0.08	
3rd Floor Elevator Lobby	14:32	0.002	0.003	0.034	0.049	0.061	
4th Floor Elevator Lobby	14:38	0.002	0.002	0.015	0.019	0.026	
5th Floor Elevator Lobby	14:43	0.002	0.003	0.029	0.045	0.052	
6th Floor Elevator Lobby	14:49	0.002	0.005	0.068	0.091	0.108	

Benjamin Franklin High School (UCLS# 2010)

Date of Sampling

21-Jan Criterion Project Number

192440

Location	Time	PM 1 (mg)	PM 2.5 (mg)	PM 7 (mg)	PM 10 (mg)	Total Dust (mg)	Comments
outdoors	8:15	0.003	0.003	0.016	0.018	0.018	
Basement Elevator Lobby	8:18	0.002	0.008	0.071	0.093	0.123	
1st Floor Elevator Lobby	8:23	0.003	0.007	0.068	0.084	0.109	
2nd Floor Elevator Lobby	8:27	0.002	0.008	0.036	0.051	0.083	
3rd Floor Elevator Lobby	8:32	0.002	0.005	0.016	0.031	0.043	
4th Floor Elevator Lobby	8:36	0.003	0.005	0.029	0.056	0.074	
5th Floor Elevator Lobby	8:39	0.002	0.004	0.02	0.043	0.064	
6th Floor Elevator Lobby	8:45	0.005	0.019	0.086	0.109	0.146	

Benjamin Franklin High School (UCLS# 2010)

Date of Sampling

22-Jan Criterion Project Number

192440

Location	Time	PM 1 (mg)	PM 2.5 (mg)	PM 7 (mg)	PM 10 (mg)	Total Dust (mg)	Comments
outdoors	8:35	0.002	0.003	0.018	0.024	0.028	
Basement Elevator Lobby	8:39	0.004	0.024	0.186	0.221	0.289	
1st Floor Elevator Lobby	8:44	0.002	0.006	0.036	0.064	0.095	
2nd Floor Elevator Lobby	8:48	0.002	0.004	0.017	0.036	0.063	
3rd Floor Elevator Lobby	8:53	0.002	0.006	0.039	0.057	0.081	
4th Floor Elevator Lobby	8:57	0.002	0.005	0.035	0.047	0.063	
5th Floor Elevator Lobby	9:05	0.004	0.007	0.065	0.083	0.121	
6th Floor Elevator Lobby	9:09	0.003	0.009	0.084	0.114	0.158	
Basement Elevator Lobby	11:10	0.003	0.013	0.079	0.106	0.12	
1st Floor Elevator Lobby	11:14	0.002	0.006	0.032	0.055	0.086	
2nd Floor Elevator Lobby	11:21	0.002	0.004	0.031	0.059	0.071	
3rd Floor Elevator Lobby	11:26	0.002	0.003	0.021	0.042	0.065	
4th Floor Elevator Lobby	11:29	0.002	0.003	0.019	0.026	0.037	
5th Floor Elevator Lobby	11:36	0.002	0.004	0.042	0.068	0.088	
6th Floor Elevator Lobby	11:42	0.004	0.008	0.071	0.09	0.117	
Basement Elevator Lobby	14:23	0.003	0.01	0.082	0.106	0.138	
1st Floor Elevator Lobby	14:29	0.002	0.005	0.042	0.063	0.079	
2nd Floor Elevator Lobby	14:34	0.002	0.004	0.036	0.051	0.062	
3rd Floor Elevator Lobby	14:38	0.002	0.003	0.028	0.034	0.039	
4th Floor Elevator Lobby	13:43	0.002	0.003	0.021	0.031	0.042	
5th Floor Elevator Lobby	14:47	0.002	0.011	0.067	0.086	0.106	
6th Floor Elevator Lobby	14:52	0.003	0.008	0.062	0.091	0.129	

Benjamin Franklin High School (UCLS# 2010)

Date of Sampling

23-Jan Criterion Project Number

192440

Location	Time	PM 1 (mg)	PM 2.5 (mg)	PM 7 (mg)	PM 10 (mg)	Total Dust (mg)	Comments
outdoors	8:02	0.003	0.003	0.016	0.018	0.018	
Basement Elevator Lobby	8:06	0.001	0.021	0.074	0.098	0.126	
1st Floor Elevator Lobby	8:11	0.002	0.006	0.023	0.028	0.031	
2nd Floor Elevator Lobby	8:16	0.002	0.005	0.016	0.029	0.035	
3rd Floor Elevator Lobby	8:22	0.002	0.004	0.013	0.015	0.021	
4th Floor Elevator Lobby	8:27	0.002	0.005	0.028	0.035	0.042	
5th Floor Elevator Lobby	8:33	0.003	0.01	0.073	0.094	0.128	
6th Floor Elevator Lobby	8:39	0.005	0.016	0.078	0.103	0.121	

Benjamin Franklin High School (UCLS# 2010)

Date of Sampling

24-Jan Criterion Project Number

192440

Location	Time	PM 1 (mg)	PM 2.5 (mg)	PM 7 (mg)	PM 10 (mg)	Total Dust (mg)	Comments
outdoors	8:32	0.002	0.004	0.022	0.026	0.034	
Basement Elevator Lobby	8:36	0.004	0.009	0.085	0.124	0.138	
1st Floor Elevator Lobby	8:40	0.003	0.011	0.083	0.116	0.142	
2nd Floor Elevator Lobby	8:45	0.002	0.005	0.041	0.063	0.075	
3rd Floor Elevator Lobby	8:49	0.002	0.005	0.046	0.062	0.084	
4th Floor Elevator Lobby	8:53	0.002	0.006	0.058	0.073	0.103	
5th Floor Elevator Lobby	8:59	0.003	0.009	0.079	0.102	0.124	
6th Floor Elevator Lobby	9:03	0.004	0.011	0.091	0.132	0.194	
Basement Elevator Lobby	11:21	0.004	0.012	0.103	0.124	0.186	
1st Floor Elevator Lobby	11:25	0.003	0.009	0.088	0.103	0.146	
2nd Floor Elevator Lobby	11:29	0.002	0.003	0.026	0.041	0.049	
3rd Floor Elevator Lobby	11:33	0.002	0.003	0.022	0.035	0.046	
4th Floor Elevator Lobby	11:37	0.002	0.004	0.046	0.067	0.091	
5th Floor Elevator Lobby	11:42	0.003	0.007	0.074	0.091	0.122	
6th Floor Elevator Lobby	11:46	0.004	0.008	0.091	0.12	0.157	
Basement Elevator Lobby	14:09	0.004	0.026	0.082	0.156	0.274	
1st Floor Elevator Lobby	14:13	0.002	0.005	0.024	0.041	0.049	
2nd Floor Elevator Lobby	14:18	0.002	0.003	0.021	0.037	0.046	
3rd Floor Elevator Lobby	14:23	0.002	0.006	0.051	0.073	0.102	
4th Floor Elevator Lobby	14:28	0.002	0.005	0.054	0.068	0.084	
5th Floor Elevator Lobby	14:35	0.002	0.006	0.058	0.072	0.096	
6th Floor Elevator Lobby	14:38	0.003	0.013	0.068	0.092	0.118	