Comparison of Airborne and Surface Particulate Size Distributions in Specific Hanford Nuclear Facilities

Prepared for the U.S. Department of Energy
Office of Environmental Restoration and
Waste Management

Westinghouse
Hanford Company Richland, Washington

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D. B. Ottley

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Abstract

**COMPARISON OF AIRBORNE AND SURFACE PARTICULATE SIZE DISTRIBUTIONS
IN SPECIFIC HANFORD NUCLEAR FACILITIES**

by David B. Ottley

Chairperson of the Supervisory Committee: Professor Michael S. Morgan
Department of Environmental Health

Settled dust from nuclear operations may be contaminated with radionuclides and become resuspended and subsequently breathed. This is the predominate radionuclide inhalation hazard scenario in nuclear facilities that have been deactivated and no longer have liquid in their process systems that may become directly airborne in accident situations. Comparisons were made between the indoor ambient airborne particulate size distribution and that of resuspended dust that could become contaminated and subsequently airborne during decommissioning operations at selected nuclear facilities on the Hanford Site. The results indicate that only 5% of the particles, by count, above the breathing zone are greater than ten (10) μm in size and that the particulates that could be resuspended into the breathing zone had a mean aerodynamic equivalent diameter of four (4) μm or less.

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LIST OF ACRONYMS

AED	Aerodynamic Equivalent Diameter
AMAD	Activity Median Aerodynamic Diameter
CAM	Continuous Air Monitor
D	Density
LPC	Laser Particle Counter
OD	Optical Diameter
P&O	Pipe and Operating
RCA	Radiological Controlled Area
WHC	Westinghouse Hanford Company

DEFINITIONS

- AED Aerodynamic Equivalent Diameter, the diameter of unit density sphere having the same settling velocity
- AMAD Activity Median Aerodynamic Diameter, the diameter of uniform unit density sphere having the same settling velocity as the particle carrying the median amount of radioactivity in the particle distribution
- OD Optical Diameter, the diameter of instrument calibration particles (polystyrene latex spheres) that scatters light into the receiving optics with the same amplitude as the particle actually in the sensing zone

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INTRODUCTION

It is important to know the size distribution of particulates in worker's breathing air because of the relationship between particle size and respirability. Previous studies to ascertain the airborne particle size distribution at nuclear facilities have centered on the particle size distribution in liquid process systems (Andersen and Nelson 1967; Perrin 1987). The assumption has been that as a system break occurs, the material within the system becomes airborne. This would be the case in a catastrophic accident but not likely in contamination incidents resulting from routine operation.

In routine operations, process stream particle size distributions are less important than the indoor dust particle size. Breaches in process streams contaminate the settled dust on floors and other surfaces, which in turn becomes resuspended. The resuspension of radioactive particulates is the predominant inhalation and worker internal exposure scenario for a facility that has been deactivated and no longer has liquid in its process system. The hypothesis of this study is that the size distribution of resuspended dust contains too few particles of aerodynamic diameters greater than or equal to $10\text{ }\mu\text{m}$ to use $10\text{ }\mu\text{m}$ as the default particle size for air sampling transport line loss determinations. If supported, a more realistic maximum aerodynamic diameter based on typical data can be recommended for use as a default when the actual particle size distribution is not known. Selected

Hanford Site nuclear facilities were used to determine and compare ambient and resuspended indoor dust particle size distributions.

Background

Ambient air samples are normally taken in strategic locations to detect and evaluate airborne radioactive material in most nuclear facilities. It is desirable that these samples be representative of worker's breathing air. Continuous air monitors (CAMs), which are often used for this purpose, may be remotely situated from the actual sampling location to minimize occupational radiation exposure to workers who must maintain them. For these installations, an air sample is drawn through a transport line which may take a circuitous route to the CAM filter. As the air travels through the transport line, particles are deposited on the walls of the transport line tubing in a size discriminative manner (ANSI 1969; USNRC 1991). Inertial effects on larger particles will cause them to impact and accumulate on bends in the transport line because they are too large to traverse the curve (Fan et al. 1992). If the concentration of radionuclides in the larger (or small) particles significantly differs from the concentration in the particles in the respirable range, the radioactive material collected on the filter may not be representative of the worker's breathing air or of the dose delivered to the respiratory system. Furthermore, nonrepresentative sampling may lead to inadequate determination of respiratory protection needs for workers and the possibility of errors in determining doses from inhaled particles (McFarland et al. 1991).

At Westinghouse Hanford Company (WHC), the particle size assigned to facilities with airborne radioactive systems containing mixed fission products (i.e., beta/gamma emitters) has been seven (7) μm aerodynamic equivalent diameter (AED) (Rathbun 1992). The particle size assigned to systems containing plutonium compounds (i.e., alpha emitters) has been four (4) μm , AED (Ruben 1992b).

Computer programs such as DEPOSITION (Anand et al. 1991, 1993) can be used to quantify the air sampling transport line loss (Glissmeyer 1991). Without particle size distribution knowledge, conservative assumptions must be made in the computer analysis; typically a 10 μm diameter size is chosen as the worst case. This is based on the following recommendation by the U. S. Nuclear Regulatory Commission: "The penetration of particles with an aerodynamic equivalent diameter of 10 micrometers should be at least 50 percent," (USNRC 1992). The penetration of a particle is its ability to traverse the transport line and deposit on the filter, and is the opposite of deposition, when the particle deposits on the transport line wall.

A particle size of ten (10) μm was selected because 10 μm AED is considered the diameter at which not more than 1% of the ambient particles enter the pulmonary zone of the lungs (ACGIH 1985). However, if there are few or no particles with 10 μm AED or larger diameter size, then it is not appropriate to evaluate a transport line at this size. A suitably conservative default value would be the upper size of the particle range that covered 95% of the particles of interest. This paper will show that evaluating airborne radioactive material sampling

transport lines by using the default size of 10 μm for particles is too conservative - i.e. overstates the radionuclide concentration - allowing a greater safety margin than is warranted for most applications.

Currently, if a sample line does not meet acceptance criteria, the line must either be replaced or its use discontinued. Overly conservative assumptions may result in rejection of an excessive number of transport lines with them not being accepted for use and consequent unwarranted upgrade costs.

A sphere increases in volume and subsequent mass as its diameter cubed, whereas surface area increases as the diameter squared. If the entire particle is considered to be made up of radioactive material, then a 10-fold increase in particle diameter results in a 1,000-fold increase in radioactivity. This would be the case in the resuspension of a radioactive liquid. If the floor dust becomes coated with the radioactive liquid and then is resuspended, the 10-fold increase in diameter results in only a 100-fold increase of surface area and subsequent radioactivity.

Another use of particle size distribution knowledge is for determination of the dose to the respiratory tract from inhaled radioactive material. Currently at the Hanford Site, dose assessment is based on the Reference Man put forth by the International Commission of Radiological Protection, ICRP (ICRP 75) and an assumed particle size of one (1) μm AMAD (Sula et al. 1989). The Computer-based Internal DosimetrY System (CINDY) computer model (Streng et al. 1992) in use at some nuclear facilities, allows the input of event-specific particle

size information making it possible to individualize the incident assessment if the size distribution of the inhaled particle is known. This yields a more accurate dose assessment from the inhalation of radioactive particles. .

CHAPTER I: METHODS

Particle size distributions in ambient air were determined and compared to those from resuspended settled dust collected at various sampling heights as described below.

Sampling Protocol

A dust-free, non-absorbing cloth, (air sampling filter paper) was used to gently remove a sample of settled dust, with care taken not to infuse the dust into the cloth. The dust was then resuspended at the orifice of the sampling probe of a laser particle counter (LPC) by delicately agitating the cloth. This sampling technique was designed to ensure that the particle size distribution was not affected by this LPC sampling protocol. However, the results of this effort were not reproducible. This is consistent with other experimenters (e.g., Caplan 1993). Therefore, a jig was assembled to sample airborne particles after the settled dust was resuspended with a small horsehair brush. As noted by Sehmel (1979), vigorous sweeping has a very high mechanical resuspension factor. This method ensured that a particle distribution shift did not occur due to sampling protocol and that sampling would be reproducible as it has been for others (e.g., Fish 1964).

Equipment

Laser particle counters, Model 200L, manufactured by Met One,

Inc.* (Met One 1989) as pictured in Appendix G, were used to determine particle size distributions. Laser particle counters (LPC), measure optical diameter (OD), or physical size (Gouesbet and Grehan 1988), as opposed to aerodynamic equivalent diameter (AED), which takes into consideration the particle density. LPCs have the ability to determine particle size distributions of unknown aerosols including dust (Benjamin et al. 1974; Chen and Cheng 1984; Killinger and Zerull 1984). No correction was made for the difference in refractive index of dust particles measured in this study versus calibration particles. Another measure of particle size is activity median aerodynamic diameter (AMAD) which additionally considers the radioactivity distribution within the particle size range. Radioactivity distributions or AMADs were not calculated for this study. Optical diameter measurements were used in this study for comparison purposes to determine size variabilities. These optical diameter results can be compared with the AED values in the literature by a simple conversion. The AED can be approximated by multiplying the OD values by 1.5 (see Appendix A for derivation), which is consistent with conversion methods reported by Marple and Rubow (1976).

The Met One laser particle counter is a microprocessor-controlled, laser-based counter that measures six particle-size ranges simultaneously ranging from 0.3 μm to greater than 10 μm OD. It displays the number of particles in each range as a cumulative or

* Met One Inc., Grants Pass, Oregon

differential count. The coincidence error is less than 10% at a concentration of 140 particles/cm³ (4,000,000 particles/ft³). It is equipped with adjustable count alarms and automatic calibration verification.

The laser particle counter uses a solid-state laser diode and lenses to create an infrared light beam that senses the particles. The particles pass through the infrared beam, deflecting bursts of light onto a solid-state photo-diode that converts the light into an electrical pulse. The size of the pulse is proportional to the particle size.

The sampled air flows through a sample head at 28 l/m (1 cfm). A built-in printer provides particle-count printouts at timed intervals; time and date are automatically noted on the printout. The laser particle counters were operated according to the manufacturer's recommendations and the attached procedure (Appendix B).

The laser particle counter sorts the counted particles into six separate bins (Table 1). The mean bin diameter, d , represents the geometric mean particle size collected in that particular bin and is calculated as the square root of the product of the lower, (d_l) and upper, (d_u) size range cut-off points, $(d_l * d_u)^{1/2}$. Since the bin upper cut-off point is approximately twice the value of the lower cut-off point, the upper cut-off point for the last bin was chosen as 20, twice 10 so that a bin mean diameter could be calculated. There are few respirable particles larger than 20 μm OD. Additionally, this makes the bin width comparable with the other bin widths.

The count-weighted mean diameter is the summation of the product of each mean bin diameter, d and particle count, divided by the total count, $\Sigma (d * \text{count}) \div \Sigma \text{count}$ and has been calculated for each test performed.

The count-weighted size can be plotted against the bin diameter to graphically show particle size distribution; however the plot of ambient air size distribution is often bimodal and thus it is difficult to use in determining the mean particle size (Hinds 1992; Hickey et al. 1993). Therefore, graphing was not performed for this study.

Instead, the mean particle size was determined mathematically by establishing suitable algorithms as subroutines in the data entry program to automatically calculate the count-weighted mean diameter. The completed data sheets showing the calculated values are contained in Appendix H.

Table 1. Bin Range, Diameter and Diameter Width.

Bin Range OD (μm)	Mean Bin Diameter (μm)	Diameter Width $\Delta \log d$
0.30-0.49	0.38	0.21
0.50-0.99	0.70	0.30
1.00-1.99	1.41	0.30
2.00-4.99	3.16	0.40
5.00-9.99	7.07	0.30
>10.0	14.14	0.30

Sampling Locations

Measurements of indoor particle size distributions were made at locations in three separate buildings on the Hanford Site: 1) 3706 Building, room 102, 2) 3706A Building, and 3) PUREX. The 3706 Building is a 50-year old wood-frame office structure which was once used as the plutonium separations process development laboratory. The attic of the building has been designated as a radiologically controlled area (RCA) because of potential plutonium contamination remaining in the old radiochemical hood ventilation duct work. Therefore, it will be demolished as an RCA-designated facility.

The 3706A Building served as a utilities building for water, steam, and electrical services to support the 3706 Building before it was converted to an office. The 3706A Building is a concrete structure with openings under the doors which have permitted dust ingress and contributed to a large accumulation of dust in the building. This made it particularly useful for this study because in normally occupied buildings, dust accumulation is obviated by routine cleaning and therefore not readily available for resuspension studies.

The PUREX facility is also of concrete construction and is the newest plutonium separations facility, or canyon building at the Hanford Site having begun operation in January 1956. Separation functions were terminated in 1990 and the building is currently being prepared for decommissioning.

These three facilities (i.e., 3706A, 3706 and PUREX) are typical of the radiologically controlled facilities at the Hanford Site.

Particulate size information will be useful because air sampling will be performed in these and similar facilities providing information to protect workers from potential airborne contaminants as demolition takes place.

Documentation

Data from the laser particle counters were entered onto the Particulate Measurement Record form (Appendix C) along with the sample location. The matching printout from the LPC was attached to the Particle Measurement Record form. Additional measurements of temperature, humidity, dew point and (if applicable) wind speed were performed with a TSI Veloci Calc Plus model 8360 Anemometer*. These data were also recorded on the form.

Precision and Accuracy

The precision or reproducibility of the two laser particle counters used in this study was quantitatively determined by obtaining multiple counts under the same conditions in each particle size range and comparing the mean of the data between the two LPCs. The accuracy was determined by qualitatively comparing the mean aerodynamic diameter to the mean aerodynamic diameter measured with a cascade impactor.

The two laser particle counters were denoted #1 and #2 for serial

* Veloci Calc Plus is a trademark of the TSI company, Minneapolis, Minnesota.

numbers, 9002979A and 891601209 respectively. Both particle counters were set up according to the manufacturer's instructions and were operated according to the attached procedure (Appendix B).

Probes for the laser particle counters were positioned to sample ambient air at a height of one meter above the floor with the probe inlets facing horizontally the same direction, while spaced 0.5 meters away from each other. The length of the probe sampling lines for each LPC was minimized to an equal length of 0.5 meters thus equalizing deposition within the lines for the two probes. Sampling flow rate was set at 28 l/m (1 cfm). The counters were set to take 10 consecutive one-minute samples in room 102 of the 3706 Building. The room was undisturbed during the sampling, except by the normal air flow caused by drafts and air conditioning.

Anemometer data recorded at the beginning of the sampling period along with the number of counts per size range were entered into a computer-based algorithm where the mean optical diameter was calculated. The difference, mean, and percent difference for the 10 consecutive samples was then calculated to determine a mean percent difference. The coefficient of variation of the means is 4.1% as is shown in Table 2. By means of this comparison the two laser particle counters have been shown to yield precise and similar results.

Table 2. Comparison Between the Two Laser Particle Counters.

Mean Diameter (μm)		Difference (μm)	Mean (μm)	% Difference
Sampler #1	Sampler #2			
0.64	0.65	0.01	0.65	1.5
0.61	0.62	0.01	0.62	1.6
0.63	0.63	0.00	0.63	0
0.60	0.61	0.01	0.61	1.6
0.59	0.60	0.01	0.60	1.7
0.58	0.60	0.02	0.59	3.4
0.57	0.57	0.00	0.57	0
0.58	0.58	0.00	0.58	0
0.61	0.62	0.01	0.62	1.6
0.58	0.60	0.02	0.59	3.4
Mean	0.60	0.01	0.61	1.5
Standard Deviation of Means			0.025	
Coefficient of Variation of Means			4.1%	

Cascade Impactors

The accuracy of the two laser particle counters used in this study was determined by comparing their results with that of a cascade impactor. Cascade impactors are frequently used in determining particle size distributions. However, for this type of study, they were determined to not be appropriate as they require long sampling times and do not reflect momentary or real time changes in the environment (Yu et

al. 1993). Laser particle counters were used in this study because of their sensitivity to sudden shifts in particle size distributions. A qualitative comparison between the laser particle counters and a cascade impactor was performed to determine the laser particle samplers sizing ability.

An Andersen cascade impactor*, Series 210, was assembled and operated according to the procedure described in Appendix D (Andersen 1979) in order to sample ambient air. The impactor sample was collected in the 3706 Building, room 102 at a flow rate of 3 lpm for 24 hours. The cut-off points for the filter substrates were determined by the flow rate selected so the degree of filter loading could be used to qualitatively confirm the particle-sizing ability of the laser particle counters. Quantitative evaluation of results was not conducted because of the difficulty of accurately weighing the substrates. A copy of the "Cut-Points Versus Flow Rate" graph is attached in Appendix E. Photocopies of the filter substrates are included in Appendix F.

Visual analysis of the loading on the filter substrates shows heavy loading on the three filter substrates in the ranges from $0.076 \mu\text{m}$ - $0.86 \mu\text{m}$ AED (i.e., less than $1.0 \mu\text{m}$ AED). The ambient air particle size determined using the laser particle counter within the same room (Fig. 1), was approximately a $0.6 \mu\text{m}$ OD. When this LPC

* Andersen Cascade Impactor, available from Andersen Samplers Inc., Atlanta, Georgia.

outcome is multiplied by the 1.5 conversion factor (as derived in Appendix A) for comparative purposes, the resulting $1.0 \mu\text{m}$ AED is the same as the visual estimated maximum obtained using the cascade impactor. This demonstrates that the LPC and cascade impactor are comparable within the limitations of this study.

Fig. 1. Ambient Air Vs. Sample Height, Building 3706, Room 102.

In a previous study i.e., (Ruben 1992a), a cascade impactor sample was obtained from cell 9 of the B-Plant canyon. The B-Plant canyon is similar but older than the PUREX facility. Results demonstrated that the mean particle size was approximately $1.0 \mu\text{m}$.

CHAPTER II: RESULTS

The following experiments were performed to establish the ambient air particle size and determine the variability in particle size versus height due to the resuspension of settled dust within the studied facilities.

Ambient Air

The mean optical diameter of ambient air particles as a function of height above the floor was determined by collecting 10, one-minute samples at five different heights with a 0.5 m increments between 0.02 and 2 m (0.02, 0.5, 1.0, 1.5, and 2.0 m) in the 3706 and 3706A buildings. The lowest practical height obtainable was 2 cm (0.02 m) because this was as close to the floor as the probe could be placed for measurement. The sampling procedure listed in Appendix B was used. The data were entered into an Aerosol Particle Record form to determine the mean optical diameter for each sample. Each group of 10 samples was averaged and the standard deviation was calculated as shown in Tables 3 and 4. The small standard deviation indicates that there is very little variation between each of the 10 samples from each sample height.

Table 3. Mean Optical Diameter of Ambient Air in Building 3706A.

Sampling Height (m)	Mean OD 10 Measurements at each height (μm)	Standard Deviation (μm)	Coefficient of Variation
0.02	0.596	0.005	1%
0.5	0.569	0.006	1%
1.0	0.566	0.007	1%
1.5	0.564	0.007	1%
2.0	0.604	0.014	2%
Mean	0.58	0.008	
Standard Deviation of Means	0.018		
Coefficient of Variation of Means	3.1%		

The mean optical diameter of particles in the ambient air as a function of height was quite consistent as no statistically significant differences were observed (Tables 3 and 4). The coefficient of variation of the means for the 3706A Building was 3.1%, and for the 3706 Building it was 3.2%.

Table 4. Mean Optical Diameter of Ambient Air in Bldg. 3706, Rm. 102.

Sampling Height m	Mean OD 10 Measurements at each height (μm)	Standard Deviation (μm)
0.02	0.646	0.013
0.5	0.636	0.032
1.0	0.621	0.026
1.5	0.612	0.011
2.0	0.596	0.015
Mean	0.622	0.02
Standard Deviation of Means	0.02	
Coefficient of Variation of Means	3.2%	

The PUREX facility has higher radiation exposure rates than the 3706 or 3706A facilities. Therefore, to reduce personnel radiation dose and because enough data were available from the other less contaminated facilities, ambient air sampling was performed only once at each increment of height in the PUREX facility. Mean optical diameter values for the PUREX facility are shown in Table 5 and are also very close to the more accessible, 3706 and 3706A facilities. The coefficient of variation for PUREX (i.e., 9.1%) is higher than the other two facilities.

Table 5. Mean Optical Diameter of Ambient Air in PUREX.

Sampling Height m	Mean OD (μm)
0.02	0.76
0.5	0.64
1.0	0.65
1.5	0.63
2.0	0.62
Mean	0.66
Standard Deviation of Mean	0.06
Coefficient of Variation of Mean	9.1%

The results from the three indoor air environments studied indicate that the mean optical diameter of ambient indoor air ranges approximately between 0.5 μm and 0.8 μm with a mean of 0.62 μm . There was a tendency for larger particles to be near the floor which is expected due to the effects of gravitational settling. Converting the mean 0.62 μm optical diameter to an aerodynamic equivalent diameter results in an approximately 0.93 μm or about 1.0 μm AED size particle. This is consistent with the size determined while establishing the precision of the laser particle counters (Table 2) and with the expected indoor particle size such as used for calculating internal doses at the Hanford Site (Sula et al. 1989).

Resuspension

The purpose of the next experiment was to determine the size distribution of the resuspended settled dust versus time. Dust in

indoor environments is primarily tracked in by foot traffic and/or blown in by winds (Owen et al. 1992). In routine decommissioning operations, the process of sweeping the floors is one of the major causes of resuspending dust. Frequently water, such as in mopping, is used to contain airborne radioactive material. For this experiment a brush was used to agitate and resuspend dust from the floors.

To measure the particle size distribution of the resuspended dust, the laser particle counters were operated according to the attached procedure (Appendix B). The probes of the particle counters were oriented downwards to avoid collecting falling dust (Alzona et al. 1979). The first probe was positioned at 25 cm (0.25 m) above the floor. This is as close to the floor as practical, yet being directly above the agitating brush. The other probe was placed at 1.5 m above the floor.

The laser particle counters were setup to sample simultaneously, taking 20-second samples separated by 40-second hold times. The hold time was needed to allow the laser particle counters to stabilize between counts because of the large number of particles being counted. The hold time also minimized the probability of a particle being deposited in the sample line during one test from being resuspended in a subsequent test because it gave time for the sample line to clear. The first sample was of ambient air. Midway through the hold time between the first and second counts, a brush was used on the floor to stir up dust simulating demolition activities. The brush was used for about

15 seconds within a one-meter radius of the probes to resuspend the dust. After the resuspension period, sampling continued for another 13 minutes, ample time for the laser particle counters to indicate particle counts had returned to near ambient values.

The settled dust was resuspended into a "cloud" in which the larger particles settle out and the smaller particles rose and dissipated into the air. The rate at which this process happens may vary based on such factors as air drafts, humidity, ceiling height, initial velocity, and particle shape and size.

This study was particularly concerned with the peak particle size measured after the dust resuspension event. The plot of the largest mean optical particle diameter versus time is shown in Fig. 2 for a test performed in the 3706A Building. The large peak observed at one minute for the 0.25 m sampling height is typical of what happens near the floor when the dust is initially resuspended. No change was seen in the 1.5 m sample until approximately four minutes later and then, to a much less extent.

Fig. 2. Mean Optical Diameter Vs. Time Following Resuspension, 3706A

Twelve additional tests, such as the previous experiment, were performed in the 3706A Building. During each test, one probe sampled the resuspended dust at 0.25 m (ground level for the experiment) while the other was placed at a higher point varying from 0.5 m to 2.0 m at 0.5 m increments (0.5, 1.0, 1.5, and 2.0 m). Sampling was repeated three times at each height, except at 2.0 m where the sample was repeated four times. The experiment was repeated an extra time because of obtaining a ground (0.25 m) sample that appeared different (lower) than the others, all of the data were included in the analysis. The samplers were again set up to simultaneously take consecutive 20-second

samples with the counts separated by a 40-second hold time over a 8 to 14 minute time frame. The shorter times were typically used in the PUREX facility to minimize exposure to radiation. Data from these samples were entered into the Aerosol Particle Measurement Record where mean optical diameters were calculated.

Table 6 shows the largest mean optical diameter obtained by both laser particle counters being operated at the various heights selected at all three facilities. Each line of data shows pairs of simultaneously determined mean optical diameters, the value at 0.25 m and the value at the elevation indicated by that column. Table 6 also shows the mean and standard deviation for each height combination. The only significant variability was at 0.25 m, near the floor, where it was difficult to "grab" the time of maximum particle size.

Table 6. Peak Mean Diameter (μm), Versus Sampling Height

		Sampling Height				
Facility		0.25 m	0.5 m	1.0 m	1.5 m	2.0 m
3706A		10.06	4.7			
		12.05	5.56			
		9.64	6.12			
		8.84		1.87		
		11.59		1.66		
		12.22		1.67		
		8.02			1.54	
		11.36			2.18	
		11.41			1.73	
		10.96				2.17
		5.34				1.97
		11.62				2.01
		8.71				2.13
		Mean	10.14	5.46	1.73	1.82
	Standard Deviation	1.9	0.58	0.10	0.27	0.08
	Coefficient of Variation	19%	10%	6%	15%	4%
3706, Rm. 102		3.60	1.95			
		2.58		2.34		
		4.20			1.94	
		3.18				2.43
		Mean	3.39	1.95	2.34	1.94
	Standard Deviation	0.59				
PUREX		5.13	1.49			
		3.73		1.22		
		3.83			0.56	
		4.73				0.57
		Mean	4.38	1.49	1.22	0.57
	Standard Deviation	0.61				

The largest of the mean optical diameters in the breathing zone was 2.07 μm , 2.43 μm , and 1.22 μm for the 3706A, 3706 and PUREX

buildings respectively as shown in Table 6. The breathing zone has been defined as above one meter for this study as workers may sit or lean to work. The mean of these three numbers is $1.9 \mu\text{m OD}$ or $2.9 \mu\text{m AED}$. To be conservative, $4.0 \mu\text{m AED}$ will be used.

The data for the 3706A facility from Table 6 are plotted in Fig. 3 to illustrate the variability in the ranges. The plot shows a flattening of data above 1 m, the breathing zone. The plot also shows a trend toward greater variability in the observed data at low elevations. There was no correlation between the peak at 0.25 m and the pared peak at the higher sampling point. Additionally, a series of measurements of the ambient air at each height was made and is shown in the figure.

Figure 3 shows that even in situations where there is heavy dust loading, such as in the 3706A facility, the mean optical diameter of the dust resuspended into the breathing zone is much less than the $10 \mu\text{m AED}$.

Fig. 3. Resuspension and Ambient Air Vs. Sample Height, Bldg. 3706A.

To perform this experiment for 13 series of measurements required a significant amount of time and resulted in extensive data. To demonstrate similar results in the other buildings on the Hanford Site only one set of data was obtained at each height.

The same experiment was performed in the 3706 Building, room 102. However, only one dust resuspension measurement was performed at each height increment. The largest mean optical diameter of the resuspended dust and the largest mean diameter of the ambient air versus height is shown in Table 6 and are plotted in Fig. 4. These results are similar to those obtained at the 3706A Building; however, the mean optical

diameter at the 0.25 m sampling height was significantly lower, as was expected because it was a cleaner facility.

Fig. 4. Resuspension and Ambient Air Vs. Sample Height, 3706, Rm. 102

The protocol used for the 3706 Building room 102 was also used in the PUREX facility. The largest mean optical diameter of the resuspended dust and the largest mean optical diameter of ambient air versus height is shown in Table 6 and is plotted in Fig. 5. The mean optical diameter of the dust resuspended into the breathing zone is less than, but consistent with, the findings at the other two facilities. There was inconsistency in how many particles were resuspended from

sample to sample and in the maximum particle size near the floor; however, trends observed above one meter were consistent.

Fig. 5. Resuspension and Ambient Air Vs. Sample Height, PUREX.

One possible explanation for the smaller particle size above one meter at the PUREX facility could be the depth within the building of the pipe and operating gallery (P&O) where the samples were taken. There are three barriers for the dust entering from outside the building to pass through to get to the P&O gallery as opposed to one or two in the previous facilities. Larger particles would be less likely to get there than small ones because of deposition on doorjams as the air moves around the bends created by the doorways.

Analysis

The percent of large particles in the breathing zone was analyzed by calculating the percent of the total count-weighted size for the bins with mean optical diameter greater than $3.16 \mu\text{m}$ as shown in the data sheets, appendix H. Descending cumulative percents were also shown for these bins. These data are shown in Tables 7 through 9.

Table 7. Percent of Large Particles in Breathing Zone, Bldg. 3706A

	Highest Mean Diameter	1.87			
Height	Bin Mean Diameter (μm)	Count	%	Descending Cumulative %	
1.0m	3.16	70548	30	34	
	7.07	5456	2.3	3.4	
	14.14	2573	1.1	1.1	
	Total all Counts	232450			
	Highest Mean Diameter	2.18			
1.5m	3.16	508553	26	33	
	7.07	6296	3.2	7.1	
	14.14	7569	3.9	3.9	
	Total all Counts	193884			
	Highest Mean Diameter	2.17			
2.0m	3.16	54338	27	31	
	7.07	6253	3.1	4.4	
	14.14	7752	1.3	1.3	
	Total all Counts	204896			
Mean	3.16			33	
	7.07			5.0	
	14.14			2.1	

Table 8. Percent of Large Particles in Breathing Zone, 3706, Rm. 102

	Highest Mean Diameter	2.34			
Height	Bin Mean Diameter (μm)	Count	%	Descending Cumulative %	
1.0m	3.16	17134	26	37	
	7.07	3842	5.7	11	
	14.14	3258	4.9	4.9	
	Total all Counts	66897			
	Highest Mean Diameter	1.94			
1.5m	3.16	11529	21	29	
	7.07	2654	4.9	8.3	
	14.14	1857	3.4	3.4	
	Total all Counts	54395			
	Highest Mean Diameter	2.43			
2.0m	3.16	14828	26	38	
	7.07	3760	6.7	12	
	14.14	2848	5.0	5.0	
	Total all Counts	56427			
Mean	3.16			35	
	7.07			10	
	14.14			4.4	

Table 9. Percent of Large Particles in Breathing Zone, PUREX

	Highest Mean Diameter	1.22			
Height	Bin Mean Diameter (μm)	Count	%	Descending Cumulative %	
1.0m	3.16	8045	16	18	
	7.07	753	1.5	2.0	
	14.14	242	0.47	0.47	
	Total all Counts	50994			
	Highest Mean Diameter	0.57			
1.5m	3.16	658	1.6	1.8	
	7.07	51	0.12	0.19	
	14.14	31	0.07	0.07	
	Total all Counts	41532			
	Highest Mean Diameter	0.56			
2.0m	3.16	411	0.88	1.2	
	7.07	55	0.12	0.34	
	14.14	101	0.22	0.22	
	Total all Counts	46937			
Mean	3.16			7.0	
	7.07			0.84	
	14.14			0.25	

Table 10. Mean Percent of Large Particles in Breathing Zone

Bin Mean Diameter (μm)	Bin Minimum Diameter (μm)	Descending Cumulative %
3.16	2.00	25
7.07	5.00	5.3
14.14	10.0	2.3

The mean data from Tables 7, 8, and 9 were averaged together to calculate the size distribution in the breathing zone. This indicates that, on average, 25% of the particles, by number, are of diameters greater than a minimum size of $2.00\text{ }\mu\text{m OD}$ or a mean size of $3.16\text{ }\mu\text{m OD}$, while 5.3% are greater than a minimum size of $5.00\text{ }\mu\text{m OD}$ or a mean size of $7.07\text{ }\mu\text{m OD}$, and 2.3% are of diameters greater than a minimum size of $10.0\text{ }\mu\text{m OD}$ or a mean size of $14.14\text{ }\mu\text{m OD}$. There was a relatively wide variation around these means.

The ambient air has a mean diameter of $0.62\text{ }\mu\text{m OD}$ as shown in Chapter II. Although, 25% of the breathing air particles have a size greater than more than 3 times ($2.0 \div 0.62$) that of ambient air, only slightly over 5% are greater than eight (8) times ($5.0 \div 0.62$) this. Only 2.3% are greater than $10\text{ }\mu\text{m OD}$ as shown in Table 10.

The $5.0\text{ }\mu\text{m OD}$ is equivalent to a $7.5\text{ }\mu\text{m AED}$, thus less than 5% of the particles in the breathing zone are greater than the $10\text{ }\mu\text{m AED}$ recommended by the Nuclear Regulatory Commission (NRC) as a default value for airborne particulate line loss studies.

Regression analyses were conducted on the mean optical diameters as a function of the sampling height for each facility. Logarithmic, exponential, and power function regressions were determined along with their accompanying coefficients of determination (r^2) as shown in Table 11. The logarithmic function appeared to best represent the resuspension of dust and is illustrated in the respective facility graphs (Figs 3, 4, & 5). The combined (i.e., all three facilities together) function was;

$$d = 2.4 - (2.1 * \ln h) \quad [r^2 = 0.691]$$

where d is the mean optical diameter (μm) and h is the corresponding sampling height (m).

Table 11. Mean Optical Diameter, d (μm), as a Function of Sampling Height, h (m), and Coefficient of Determination (r^2)

Facility	3706A	3706	PUREX
Regression			
<hr/>			
Logarithmic,			
d =	$3.45 - 4.03 * \ln h$	$2.33 - 0.43 * \ln h$	$1.31 - 1.71 * \ln h$
$r^2 =$	0.872	0.371	0.830
<hr/>			
Exponential, d			
=	$8.39 * e^{-0.904h}$	$2.67 * e^{-0.119h}$	$3.75 * e^{-1.08h}$
$r^2 =$	0.671	0.141	0.837
<hr/>			
Power			
Function, d =	$2.74 * h^{-0.871}$	$2.29 * h^{-1.51}$	$0.996 * h^{-0.971}$
$r^2 =$	0.865	0.312	0.941

CHAPTER III: CONCLUSIONS

Comparisons were made between the indoor ambient airborne particulate size distribution and that of resuspended settled dust in facilities at the Hanford Site that represent buildings that will undergo routine decommissioning operations. The results indicate that less than 5% of the particles, by count, above the breathing zone are greater than 10 μm AED in size, (Table 10), and the breathing zone has a mean aerodynamic equivalent diameter (AED) of 4 μm or less, (summary of Table 6).

This is less than or equal to the values previously developed for use in line loss studies at the Hanford Site and less than the 10 μm conservative default value used by the Nuclear Regulatory Commission (NRC) for airborne particulate sample line loss determinations.

It is recommended that a 4- μm AED particle size default value be used during decommissioning operations.

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Appendix A

AED CONVERSION FROM OD

AED, Aerodynamic Equivalent Diameter

OD, Optical Diameter

Pp, Density of particle of interest

Po, Reference particle density, 1 g/cm³

C, Cunningham slip correction for sphere of interest, Dust

Ca, Cunningham slip correction for sphere of radius a

$$1) \text{ AED/OD} = (P_p/P_o)^{0.5} (C/C_a)^{0.5} \quad (\text{Liu, 1991})$$

For this study the particle size of interest is from 3 to 10 μm in size.

$$2) \text{ C}=1 \text{ for particles above approximately } 3 \mu\text{m} \quad (\text{Liu, 1991})$$

Substituting;

$$3) \text{ AED/OD} = (\text{Pp/Po})^{0.5}$$

For this study it will be assumed that the main constituent of dust is dirt.

$$4) \text{ Pp is approximately } 2.3 \text{ g/cm}^3 \quad (\text{RHH, 1970})$$

Substituting;

$$5) \text{ AED/OD} = (2.3)^{0.5} = 1.5 \quad \text{or} \quad \text{AED} = 1.5 \text{ OD}$$

This is the same conversion factor reported by Marple and Rubow (1976).

Appendix B

INSTRUCTIONS FOR OPERATION OF LASER PARTICLE COUNTERS

1. Attach air pump via TYGON®* tubing to rear of Laser Particle Counter, LPC where it is labeled "RETURN AIR".
2. Attach sample probe via TYGON® tubing to intake port on top of LPC.
3. Plug in power cord.
4. Press "ON".
5. Press "AUDIO ALARM" to stop alarm. The printer should enable itself but if not press "OPTION" then "1" then "ENTER".
6. Set time by pressing "TIME" then "PROG" then set the time using no spaces; ex. 084500 for 8:45, then press "ENTER".
7. Set date by pressing "DATE" then "PROG" then set data; ex. 092292 for September 22, 1992, then press "ENTER".

*Tygon is a trademark of the Dupont Company, Wilmington, Delaware.

8. Press "SAMPLE TIME", then "PROG", then set whatever time is necessary; ex. 60 for 1 minute, then press "ENTER".
9. Press "HOLD TIME", then "PROG", then set whatever time; ex. 05 this is the time between counts, then press "ENTER".
10. Press "COUNT", then "ALARM LIMIT HIGH". The particle size should display "0.3", press "PROG", then press "ENTER". Next press the "↑" (by the particle size) it should indicate "0.5", then press "PROG", then press "ENTER". Continue pressing "↑" until all particle size ranges are programmed.
11. Press "MODE" to change from "MANUAL" to "AUTO".
12. Press "COUNT MODE" to change from "CUM" to "DIFF".
13. Make sure the "MODE" "LOCAL" is lit instead of "REMOTE".
14. Press "COUNT".
15. Press "OPER" and wait for the center green indicator to light. Adjust air flow as needed. If this internal calibration cannot be adjusted to a green light (OK), DO NOT USE this counter at this time.

16. Press "RUN" and count should start changing. All particle sizes can be checked by pressing "↑".
17. Wait until the LPC has printed out at least twice to make sure everything is running properly.

INSTRUCTION FOR SHUTTING DOWN LASER PARTICLE COUNTERS

1. Press "STOP".
2. Press "CALIB".
3. If the paper printout is desired, press "PAPER FEED" and tear off.
4. Press "OFF".

Appendix C

Aerosol Particle Measurement Record

Description of sample location _____,

Date _____, Time sample started _____,

Temperature _____, Humidity _____, Dew Point _____,

Average Wind Velocity (if applicable) _____, # of physical barriers between sample area and outside (if applicable) _____.

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Bin Width	Count	Weighted Mean Diameter
0.30-0.49	0.38	0.21		
0.50-0.99	0.70	0.30		
1.00-1.99	1.41	0.30		
2.00-4.99	3.16	0.40		
5.00-9.99	7.07	0.30		
>10.0	14.14	0.30		

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Bin Width	Count	Weighted Mean Diameter
0.30-0.49	0.38	0.21		
0.50-0.99	0.70	0.30		
1.00-1.99	1.41	0.30		
2.00-4.99	3.16	0.40		
5.00-9.99	7.07	0.30		
>10.0	14.14	0.30		

In the field fill out the appropriate information and attach the Laser Particle Counter data print out to this form. Then enter all data into the respective blanks on a WP51 file of this form found on J:\lineoss.wje. To calculate the size weighted count, and the size mean diameter type ALT F7 Table Edit, Option 5 Math, and Option 1 Calculate.

Appendix D

INSTRUCTIONS FOR ASSEMBLY AND OPERATION OF THE CASCADE IMPACTOR

1. Wash all parts thoroughly.
2. Remove the two thumb screws on the cylindrical inlet section.
Lift off the cylindrical inlet section making sure that the nylon washers are in place.
3. Lift off the stages. Place the back-up filter on top of the stainless filter.
4. Put on stage labeled "F".
5. Place the #10 substrate (rough side up) on the "F" stage so that the slots in the substrate match up with the slots in the stage.
Place the "10" stage on top.
6. Place the #9 substrate on the "10" stage again lining up the slots. Continue until all the stages are on.
7. There will be no substrate on top of the "1" so place the cylindrical inlet section on top of "1" followed by the thumb screws. (Make sure that the nylon washers are on and the thumb

screws are tightened at the same time to insure that the O-rings are not ruined.)

8. The cyclone preseparator should be on top of the cylindrical inlet section; if not, place it there.
9. Connect the cascade impactor to the constant flow sampler pump via Tygon® tubing.
10. Plug in sampler pump and reset the built-in timer.
11. Turn on sampling pump and set to the desired flow rate.

Note: Obtaining the filter dry weight is the most critical step.

INSTRUCTION FOR DISASSEMBLY OF THE CASCADE IMPACTOR

1. Remove the two thumb screws on the cylindrical inlet section. Lift off the cylindrical inlet section making sure that the nylon washers are in place.
2. Remove the substrates making sure that the order of the substrate remains correct.

Appendix F

CASCADE IMPACTOR SUBSTRATES

Building 3706 Room 102

$.076\mu\text{m} < x < 0.37\mu\text{m}$

$0.37\mu\text{m} < x < 0.56\mu\text{m}$

$0.56\mu\text{m} < x < 0.86\mu\text{m}$

$0.86\mu\text{m} < x < 1.9\mu\text{m}$

$1.9\mu\text{m} < x < 2.6\mu\text{m}$

$2.6\mu\text{m} < x < 4.1\mu\text{m}$

$4.1\mu\text{m} < x < 6.7\mu\text{m}$

$6.7\mu\text{m} < x < 11.4\mu\text{m}$

$11.4\mu\text{m} < x < 12.8\mu\text{m}$

Appendix G

LASER PARTICLE COUNTER

Appendix H

AEROSOL PARTICLE MEASUREMENT RECORD DATA SHEETS

Data for Table 2. Precision of the Laser Particle Counter

Sampler #1

Sampler #2

Aerosol Particle Measurement Record

Description of sample location 3706 Building, Room 102, Comparison Test, Sampler #1,
 Date 7/22/94, Time sample started 13:26:56, Temperature 81.6 F, Humidity 39.3 %,
 Dew Point 55.6 F, Average Wind Velocity (if applicable) .08 m/s, # of physical barriers
 between sample area and outside (if applicable). 3,

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	140301	0.64
0.50-0.99	0.70	0.30	39498	
1.00-1.99	1.41	0.30	8664	
2.00-4.99	3.16	0.40	6682	
5.00-9.99	7.07	0.30	529	
> 10.00	14.14	0.30	566	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	142433	0.61
0.50-0.99	.70	0.30	39277	
1.00-1.99	1.41	0.30	8177	
2.00-4.99	3.16	0.40	5854	
5.00-9.99	7.07	0.30	410	
> 10.00	14.14	0.30	433	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	141861	0.63
0.50-0.99	0.70	0.30	38990	
1.00-1.99	1.41	0.30	8121	
2.00-4.99	3.16	0.40	5931	
5.00-9.99	7.07	0.30	420	
> 10.00	14.14	0.30	577	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	143855	0.60
0.50-0.99	.70	0.30	39164	
1.00-1.99	1.41	0.30	7832	
2.00-4.99	3.16	0.40	5399	
5.00-9.99	7.07	0.30	370	
> 10.00	14.14	0.30	386	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	144523	0.59
0.50-0.99	0.70	0.30	39045	
1.00-1.99	1.41	0.30	7711	
2.00-4.99	3.16	0.40	5117	
5.00-9.99	7.07	0.30	371	
> 10.00	14.14	0.30	307	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	145637	0.58
0.50-0.99	.70	0.30	39189	
1.00-1.99	1.41	0.30	7606	
2.00-4.99	3.16	0.40	5096	
5.00-9.99	7.07	0.30	314	
> 10.00	14.14	0.30	231	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	147244	0.57
0.50-0.99	0.70	0.30	38679	
1.00-1.99	1.41	0.30	7460	
2.00-4.99	3.16	0.40	4849	
5.00-9.99	7.07	0.30	297	
> 10.00	14.14	0.30	195	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	147346	0.58
0.50-0.99	.70	0.30	39064	
1.00-1.99	1.41	0.30	7578	
2.00-4.99	3.16	0.40	5075	
5.00-9.99	7.07	0.30	338	
> 10.00	14.14	0.30	255	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	147006	0.61
0.50-0.99	0.70	0.30	39916	
1.00-1.99	1.41	0.30	7816	
2.00-4.99	3.16	0.40	5613	
5.00-9.99	7.07	0.30	379	
> 10.00	14.14	0.30	507	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	149699	0.58
0.50-0.99	.70	0.30	40089	
1.00-1.99	1.41	0.30	7709	
2.00-4.99	3.16	0.40	5085	
5.00-9.99	7.07	0.30	323	
> 10.00	14.14	0.30	258	

Aerosol Particle Measurement Record

Description of sample location 3706 Building, Room 102, Comparison Test, Sampler #2,
 Date 7/22/94, Time sample started 13:26:56, Temperature 81.6 F, Humidity 39.3 %,
 Dew Point 55.6 F, Average Wind Velocity (if applicable) .08 m/s, # of physical barriers
 between sample area and outside (if applicable) .3,

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	121368	0.65
0.50-0.99	0.70	0.30	69701	
1.00-1.99	1.41	0.30	6480	
2.00-4.99	3.16	0.40	5654	
5.00-9.99	7.07	0.30	566	
> 10.00	14.14	0.30	430	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	126968	0.62
0.50-0.99	.70	0.30	69728	
1.00-1.99	1.41	0.30	5802	
2.00-4.99	3.16	0.40	5243	
5.00-9.99	7.07	0.30	441	
> 10.00	14.14	0.30	310	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	122800	0.63
0.50-0.99	0.70	0.30	67959	
1.00-1.99	1.41	0.30	5789	
2.00-4.99	3.16	0.40	5188	
5.00-9.99	7.07	0.30	475	
> 10.00	14.14	0.30	343	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	123602	0.61
0.50-0.99	.70	0.30	67886	
1.00-1.99	1.41	0.30	5546	
2.00-4.99	3.16	0.40	4805	
5.00-9.99	7.07	0.30	399	
> 10.00	14.14	0.30	267	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	123425	0.60
0.50-0.99	0.70	0.30	67193	
1.00-1.99	1.41	0.30	5330	
2.00-4.99	3.16	0.40	4606	
5.00-9.99	7.07	0.30	341	
> 10.00	14.14	0.30	186	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	125822	0.60
0.50-0.99	.70	0.30	68700	
1.00-1.99	1.41	0.30	5423	
2.00-4.99	3.16	0.40	4454	
5.00-9.99	7.07	0.30	329	
> 10.00	14.14	0.30	161	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	126492	0.57
0.50-0.99	0.70	0.30	68613	
1.00-1.99	1.41	0.30	5123	
2.00-4.99	3.16	0.40	4218	
5.00-9.99	7.07	0.30	316	
> 10.00	14.14	0.30	130	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	127441	0.58
0.50-0.99	.70	0.30	69252	
1.00-1.99	1.41	0.30	5147	
2.00-4.99	3.16	0.40	4273	
5.00-9.99	7.07	0.30	313	
> 10.00	14.14	0.30	159	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	125180	0.62
0.50-0.99	0.70	0.30	69466	
1.00-1.99	1.41	0.30	5334	
2.00-4.99	3.16	0.40	4749	
5.00-9.99	7.07	0.30	409	
> 10.00	14.14	0.30	346	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	126891	0.60
0.50-0.99	.70	0.30	69724	
1.00-1.99	1.41	0.30	5226	
2.00-4.99	3.16	0.40	4322	
5.00-9.99	7.07	0.30	333	
> 10.00	14.14	0.30	206	

Data for Table 3. Mean Optical Diameter of Ambient Air,
Building 3706A

2 cm. (0.02 meters)

0.5 meters

1.0 meters

1.5 meters

2.0 meters

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Ambient Air Test, at 2 cm, Date 8/9/94, Time sample started 11:03:47, Temperature 76.3 F, Humidity 40.1 %, Dew Point 51.1 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	135152	0.60
0.50-0.99	0.70	0.30	39797	
1.00-1.99	1.41	0.30	8036	
2.00-4.99	3.16	0.40	5650	
5.00-9.99	7.07	0.30	460	
> 10.00	14.14	0.30	122	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	135059	0.59
0.50-0.99	.70	0.30	39800	
1.00-1.99	1.41	0.30	7970	
2.00-4.99	3.16	0.40	5459	
5.00-9.99	7.07	0.30	429	
> 10.00	14.14	0.30	104	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	132461	0.60
0.50-0.99	0.70	0.30	39053	
1.00-1.99	1.41	0.30	7817	
2.00-4.99	3.16	0.40	5445	
5.00-9.99	7.07	0.30	454	
> 10.00	14.14	0.30	94	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	129590	0.60
0.50-0.99	.70	0.30	38751	
1.00-1.99	1.41	0.30	8028	
2.00-4.99	3.16	0.40	5530	
5.00-9.99	7.07	0.30	437	
> 10.00	14.14	0.30	115	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	129545	0.60
0.50-0.99	0.70	0.30	37777	
1.00-1.99	1.41	0.30	7630	
2.00-4.99	3.16	0.40	5334	
5.00-9.99	7.07	0.30	464	
> 10.00	14.14	0.30	120	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	127052	0.60
0.50-0.99	.70	0.30	37155	
1.00-1.99	1.41	0.30	7413	
2.00-4.99	3.16	0.40	5168	
5.00-9.99	7.07	0.30	450	
> 10.00	14.14	0.30	127	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	126421	0.59
0.50-0.99	0.70	0.30	36925	
1.00-1.99	1.41	0.30	7322	
2.00-4.99	3.16	0.40	4980	
5.00-9.99	7.07	0.30	399	
> 10.00	14.14	0.30	126	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	125403	0.60
0.50-0.99	.70	0.30	36558	
1.00-1.99	1.41	0.30	7387	
2.00-4.99	3.16	0.40	5160	
5.00-9.99	7.07	0.30	422	
> 10.00	14.14	0.30	109	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	125088	0.59
0.50-0.99	0.70	0.30	36183	
1.00-1.99	1.41	0.30	7102	
2.00-4.99	3.16	0.40	4868	
5.00-9.99	7.07	0.30	355	
> 10.00	14.14	0.30	86	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	123829	0.59
0.50-0.99	.70	0.30	35454	
1.00-1.99	1.41	0.30	6785	
2.00-4.99	3.16	0.40	4774	
5.00-9.99	7.07	0.30	390	
> 10.00	14.14	0.30	111	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Ambient Air Test, at 0.5 m, Date 8/9/94, Time sample started 10:20:48, Temperature 73.9 F, Humidity 43.0 %, Dew Point 50.0 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	165750	0.56
0.50-0.99	0.70	0.30	49311	
1.00-1.99	1.41	0.30	8485	
2.00-4.99	3.16	0.40	4702	
5.00-9.99	7.07	0.30	339	
> 10.00	14.14	0.30	110	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	164140	0.56
0.50-0.99	.70	0.30	48379	
1.00-1.99	1.41	0.30	8286	
2.00-4.99	3.16	0.40	4797	
5.00-9.99	7.07	0.30	396	
> 10.00	14.14	0.30	110	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	163224	0.57
0.50-0.99	0.70	0.30	48396	
1.00-1.99	1.41	0.30	8577	
2.00-4.99	3.16	0.40	5137	
5.00-9.99	7.07	0.30	423	
> 10.00	14.14	0.30	118	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	162114	0.58
0.50-0.99	.70	0.30	48755	
1.00-1.99	1.41	0.30	8934	
2.00-4.99	3.16	0.40	5775	
5.00-9.99	7.07	0.30	470	
> 10.00	14.14	0.30	120	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	162409	0.57
0.50-0.99	0.70	0.30	48067	
1.00-1.99	1.41	0.30	8851	
2.00-4.99	3.16	0.40	5436	
5.00-9.99	7.07	0.30	364	
> 10.00	14.14	0.30	121	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	161078	0.57
0.50-0.99	.70	0.30	47935	
1.00-1.99	1.41	0.30	8528	
2.00-4.99	3.16	0.40	5194	
5.00-9.99	7.07	0.30	404	
> 10.00	14.14	0.30	115	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	160925	0.57
0.50-0.99	0.70	0.30	46928	
1.00-1.99	1.41	0.30	8528	
2.00-4.99	3.16	0.40	5135	
5.00-9.99	7.07	0.30	415	
> 10.00	14.14	0.30	115	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	159261	0.57
0.50-0.99	.70	0.30	46577	
1.00-1.99	1.41	0.30	8546	
2.00-4.99	3.16	0.40	5030	
5.00-9.99	7.07	0.30	388	
> 10.00	14.14	0.30	93	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	157541	0.57
0.50-0.99	0.70	0.30	45947	
1.00-1.99	1.41	0.30	8367	
2.00-4.99	3.16	0.40	5104	
5.00-9.99	7.07	0.30	415	
> 10.00	14.14	0.30	106	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	155565	0.57
0.50-0.99	.70	0.30	46190	
1.00-1.99	1.41	0.30	8129	
2.00-4.99	3.16	0.40	5130	
5.00-9.99	7.07	0.30	372	
> 10.00	14.14	0.30	129	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Ambient Air Test, at 1.0 m, Date 8/9/94, Time sample started 9:46:48, Temperature 73.3 F, Humidity 43.0 %, Dew Point 50.0 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	132781	0.56
0.50-0.99	0.70	0.30	84393	
1.00-1.99	1.41	0.30	4402	
2.00-4.99	3.16	0.40	2723	
5.00-9.99	7.07	0.30	150	
> 10.00	14.14	0.30	102	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	132610	0.56
0.50-0.99	.70	0.30	84420	
1.00-1.99	1.41	0.30	4476	
2.00-4.99	3.16	0.40	2596	
5.00-9.99	7.07	0.30	128	
> 10.00	14.14	0.30	107	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	134416	0.57
0.50-0.99	0.70	0.30	85217	
1.00-1.99	1.41	0.30	4493	
2.00-4.99	3.16	0.40	2826	
5.00-9.99	7.07	0.30	154	
> 10.00	14.14	0.30	123	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	130549	0.56
0.50-0.99	.70	0.30	81277	
1.00-1.99	1.41	0.30	4161	
2.00-4.99	3.16	0.40	2506	
5.00-9.99	7.07	0.30	129	
> 10.00	14.14	0.30	99	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	131170	0.56
0.50-0.99	0.70	0.30	80799	
1.00-1.99	1.41	0.30	4084	
2.00-4.99	3.16	0.40	2384	
5.00-9.99	7.07	0.30	127	
> 10.00	14.14	0.30	85	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	130348	0.56
0.50-0.99	.70	0.30	81489	
1.00-1.99	1.41	0.30	4158	
2.00-4.99	3.16	0.40	2405	
5.00-9.99	7.07	0.30	132	
> 10.00	14.14	0.30	87	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	127546	0.57
0.50-0.99	0.70	0.30	78904	
1.00-1.99	1.41	0.30	4539	
2.00-4.99	3.16	0.40	2839	
5.00-9.99	7.07	0.30	153	
> 10.00	14.14	0.30	122	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	128324	0.58
0.50-0.99	.70	0.30	81608	
1.00-1.99	1.41	0.30	5070	
2.00-4.99	3.16	0.40	3414	
5.00-9.99	7.07	0.30	203	
> 10.00	14.14	0.30	154	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	129057	0.57
0.50-0.99	0.70	0.30	80923	
1.00-1.99	1.41	0.30	4618	
2.00-4.99	3.16	0.40	2943	
5.00-9.99	7.07	0.30	154	
> 10.00	14.14	0.30	119	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	126405	0.57
0.50-0.99	.70	0.30	78385	
1.00-1.99	1.41	0.30	4335	
2.00-4.99	3.16	0.40	2898	
5.00-9.99	7.07	0.30	144	
> 10.00	14.14	0.30	102	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Ambient Air Test, at 1.5 m, Date 8/9/94, Time sample started 9:46:48, Temperature 73.3 F, Humidity 43.7 %, Dew Point 51.4 F, Average Wind Velocity (if applicable) .04 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	151795	0.58
0.50-0.99	0.70	0.30	103458	
1.00-1.99	1.41	0.30	5886	
2.00-4.99	3.16	0.40	3709	
5.00-9.99	7.07	0.30	202	
> 10.00	14.14	0.30	108	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	159531	0.56
0.50-0.99	.70	0.30	106225	
1.00-1.99	1.41	0.30	5389	
2.00-4.99	3.16	0.40	3327	
5.00-9.99	7.07	0.30	158	
> 10.00	14.14	0.30	69	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	150122	0.57
0.50-0.99	0.70	0.30	102678	
1.00-1.99	1.41	0.30	5253	
2.00-4.99	3.16	0.40	3284	
5.00-9.99	7.07	0.30	150	
> 10.00	14.14	0.30	59	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	148742	0.57
0.50-0.99	.70	0.30	98958	
1.00-1.99	1.41	0.30	5142	
2.00-4.99	3.16	0.40	3055	
5.00-9.99	7.07	0.30	170	
> 10.00	14.14	0.30	71	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	141309	0.56
0.50-0.99	0.70	0.30	92081	
1.00-1.99	1.41	0.30	4780	
2.00-4.99	3.16	0.40	2728	
5.00-9.99	7.07	0.30	139	
> 10.00	14.14	0.30	53	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	140734	0.56
0.50-0.99	.70	0.30	91642	
1.00-1.99	1.41	0.30	4464	
2.00-4.99	3.16	0.40	2705	
5.00-9.99	7.07	0.30	142	
> 10.00	14.14	0.30	40	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	137457	0.56
0.50-0.99	0.70	0.30	87303	
1.00-1.99	1.41	0.30	4463	
2.00-4.99	3.16	0.40	2501	
5.00-9.99	7.07	0.30	120	
> 10.00	14.14	0.30	39	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	137833	0.56
0.50-0.99	.70	0.30	89412	
1.00-1.99	1.41	0.30	4769	
2.00-4.99	3.16	0.40	2860	
5.00-9.99	7.07	0.30	144	
> 10.00	14.14	0.30	68	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	133055	0.56
0.50-0.99	0.70	0.30	84073	
1.00-1.99	1.41	0.30	4177	
2.00-4.99	3.16	0.40	2579	
5.00-9.99	7.07	0.30	126	
> 10.00	14.14	0.30	44	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	130546	0.56
0.50-0.99	.70	0.30	82533	
1.00-1.99	1.41	0.30	4182	
2.00-4.99	3.16	0.40	2444	
5.00-9.99	7.07	0.30	128	
> 10.00	14.14	0.30	64	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Ambient Air Test, at 2 m, Date 8/9/94, Time sample started 11:05:47, Temperature 76.3 F, Humidity 40.1 %, Dew Point 51.1 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	105692	0.60
0.50-0.99	0.70	0.30	69462	
1.00-1.99	1.41	0.30	4968	
2.00-4.99	3.16	0.40	3173	
5.00-9.99	7.07	0.30	199	
> 10.00	14.14	0.30	168	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	106445	0.60
0.50-0.99	.70	0.30	70101	
1.00-1.99	1.41	0.30	4954	
2.00-4.99	3.16	0.40	3253	
5.00-9.99	7.07	0.30	217	
> 10.00	14.14	0.30	172	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	106030	0.61
0.50-0.99	0.70	0.30	70155	
1.00-1.99	1.41	0.30	5130	
2.00-4.99	3.16	0.40	3371	
5.00-9.99	7.07	0.30	246	
> 10.00	14.14	0.30	283	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	101749	0.62
0.50-0.99	.70	0.30	66965	
1.00-1.99	1.41	0.30	4916	
2.00-4.99	3.16	0.40	3360	
5.00-9.99	7.07	0.30	255	
> 10.00	14.14	0.30	347	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	101179	0.63
0.50-0.99	0.70	0.30	68550	
1.00-1.99	1.41	0.30	5372	
2.00-4.99	3.16	0.40	3505	
5.00-9.99	7.07	0.30	254	
> 10.00	14.14	0.30	460	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	100799	0.61
0.50-0.99	.70	0.30	66000	
1.00-1.99	1.41	0.30	4983	
2.00-4.99	3.16	0.40	3154	
5.00-9.99	7.07	0.30	206	
> 10.00	14.14	0.30	274	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	101154	0.60
0.50-0.99	0.70	0.30	65890	
1.00-1.99	1.41	0.30	4581	
2.00-4.99	3.16	0.40	2863	
5.00-9.99	7.07	0.30	195	
> 10.00	14.14	0.30	225	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	100069	0.60
0.50-0.99	.70	0.30	66139	
1.00-1.99	1.41	0.30	4772	
2.00-4.99	3.16	0.40	3104	
5.00-9.99	7.07	0.30	196	
> 10.00	14.14	0.30	225	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	99981	0.59
0.50-0.99	0.70	0.30	63165	
1.00-1.99	1.41	0.30	4296	
2.00-4.99	3.16	0.40	2791	
5.00-9.99	7.07	0.30	174	
> 10.00	14.14	0.30	188	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	99117	0.58
0.50-0.99	.70	0.30	62537	
1.00-1.99	1.41	0.30	4133	
2.00-4.99	3.16	0.40	2622	
5.00-9.99	7.07	0.30	169	
> 10.00	14.14	0.30	133	

Data for Table 4. Mean Optical Diameter of Ambient Air,
Building 3706 Room 102,

and

Fig. 1 Ambient Air Vs. Sample Height, Building 3706, Rm 102

2 cm. (0.02 meters)

0.5 meters

1.0 meters

1.5 meters

2.0 meters

Aerosol Particle Measurement Record

Description of sample location 3706 Building, Room 102, Ambient Air Test, at 2 cm, Date 7/27/94, Time sample started 11:36:00, Temperature 76.0 F, Humidity 40.1 %, Dew Point 50.0 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 3.

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	147838	0.65
0.50-0.99	0.70	0.30	46422	
1.00-1.99	1.41	0.30	10610	
2.00-4.99	3.16	0.40	8089	
5.00-9.99	7.07	0.30	544	
> 10.00	14.14	0.30	458	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	146945	0.66
0.50-0.99	.70	0.30	46174	
1.00-1.99	1.41	0.30	10581	
2.00-4.99	3.16	0.40	7955	
5.00-9.99	7.07	0.30	508	
> 10.00	14.14	0.30	581	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	146376	0.67
0.50-0.99	0.70	0.30	46392	
1.00-1.99	1.41	0.30	10684	
2.00-4.99	3.16	0.40	8299	
5.00-9.99	7.07	0.30	616	
> 10.00	14.14	0.30	636	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	147719	0.65
0.50-0.99	.70	0.30	47237	
1.00-1.99	1.41	0.30	10605	
2.00-4.99	3.16	0.40	7895	
5.00-9.99	7.07	0.30	579	
> 10.00	14.14	0.30	435	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	149374	0.64
0.50-0.99	0.70	0.30	46810	
1.00-1.99	1.41	0.30	10437	
2.00-4.99	3.16	0.40	7751	
5.00-9.99	7.07	0.30	496	
> 10.00	14.14	0.30	379	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	149800	0.63
0.50-0.99	.70	0.30	46772	
1.00-1.99	1.41	0.30	10645	
2.00-4.99	3.16	0.40	7608	
5.00-9.99	7.07	0.30	476	
> 10.00	14.14	0.30	301	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	150586	0.63
0.50-0.99	0.70	0.30	46766	
1.00-1.99	1.41	0.30	10417	
2.00-4.99	3.16	0.40	7420	
5.00-9.99	7.07	0.30	432	
> 10.00	14.14	0.30	337	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	149295	0.64
0.50-0.99	.70	0.30	47337	
1.00-1.99	1.41	0.30	10662	
2.00-4.99	3.16	0.40	7811	
5.00-9.99	7.07	0.30	458	
> 10.00	14.14	0.30	320	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	149762	0.65
0.50-0.99	0.70	0.30	47689	
1.00-1.99	1.41	0.30	10748	
2.00-4.99	3.16	0.40	8130	
5.00-9.99	7.07	0.30	562	
> 10.00	14.14	0.30	396	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	150398	0.64
0.50-0.99	.70	0.30	47439	
1.00-1.99	1.41	0.30	10836	
2.00-4.99	3.16	0.40	8077	
5.00-9.99	7.07	0.30	526	
> 10.00	14.14	0.30	363	

Aerosol Particle Measurement Record

Description of sample location 3706 Building, Room 102, Ambient Air Test, at 0.5 meter,
 Date 7/27/94, Time sample started 12:36:00, Temperature 78.5 F, Humidity 39.5 %,
 Dew Point 50.7 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers
 between sample area and outside (if applicable). 3,

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	145158	0.63
0.50-0.99	0.70	0.30	44835	
1.00-1.99	1.41	0.30	9923	
2.00-4.99	3.16	0.40	7083	
5.00-9.99	7.07	0.30	450	
> 10.00	14.14	0.30	399	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	144015	0.65
0.50-0.99	.70	0.30	44760	
1.00-1.99	1.41	0.30	9977	
2.00-4.99	3.16	0.40	7152	
5.00-9.99	7.07	0.30	487	
> 10.00	14.14	0.30	606	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	145460	0.63
0.50-0.99	0.70	0.30	44801	
1.00-1.99	1.41	0.30	9922	
2.00-4.99	3.16	0.40	6817	
5.00-9.99	7.07	0.30	409	
> 10.00	14.14	0.30	374	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	146831	0.62
0.50-0.99	.70	0.30	44446	
1.00-1.99	1.41	0.30	9840	
2.00-4.99	3.16	0.40	6746	
5.00-9.99	7.07	0.30	407	
> 10.00	14.14	0.30	301	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	147741	0.61
0.50-0.99	0.70	0.30	44757	
1.00-1.99	1.41	0.30	9635	
2.00-4.99	3.16	0.40	6583	
5.00-9.99	7.07	0.30	367	
> 10.00	14.14	0.30	215	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	146846	0.63
0.50-0.99	.70	0.30	44396	
1.00-1.99	1.41	0.30	9835	
2.00-4.99	3.16	0.40	6864	
5.00-9.99	7.07	0.30	409	
> 10.00	14.14	0.30	432	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	148412	0.61
0.50-0.99	0.70	0.30	45109	
1.00-1.99	1.41	0.30	9787	
2.00-4.99	3.16	0.40	6608	
5.00-9.99	7.07	0.30	385	
> 10.00	14.14	0.30	288	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	142473	0.72
0.50-0.99	.70	0.30	44092	
1.00-1.99	1.41	0.30	10255	
2.00-4.99	3.16	0.40	7998	
5.00-9.99	7.07	0.30	712	
> 10.00	14.14	0.30	1340	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	147563	0.64
0.50-0.99	0.70	0.30	45200	
1.00-1.99	1.41	0.30	9825	
2.00-4.99	3.16	0.40	7136	
5.00-9.99	7.07	0.30	424	
> 10.00	14.14	0.30	493	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	147627	0.62
0.50-0.99	.70	0.30	44998	
1.00-1.99	1.41	0.30	9871	
2.00-4.99	3.16	0.40	6946	
5.00-9.99	7.07	0.30	415	
> 10.00	14.14	0.30	345	

Aerosol Particle Measurement Record

Description of sample location 3706 Building, Room 102, Ambient Air Test, at 1.0 meter,
 Date 7/27/94, Time sample started 12:32:00, Temperature 78.5 F, Humidity 39.5 %,
 Dew Point 50.7 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers
 between sample area and outside (if applicable). 3,

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	129555	0.61
0.50-0.99	0.70	0.30	76605	
1.00-1.99	1.41	0.30	6730	
2.00-4.99	3.16	0.40	4966	
5.00-9.99	7.07	0.30	302	
> 10.00	14.14	0.30	293	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	123278	0.63
0.50-0.99	.70	0.30	74696	
1.00-1.99	1.41	0.30	6727	
2.00-4.99	3.16	0.40	5037	
5.00-9.99	7.07	0.30	327	
> 10.00	14.14	0.30	341	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	126078	0.61
0.50-0.99	0.70	0.30	74159	
1.00-1.99	1.41	0.30	6473	
2.00-4.99	3.16	0.40	4680	
5.00-9.99	7.07	0.30	279	
> 10.00	14.14	0.30	234	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	124158	0.61
0.50-0.99	.70	0.30	73662	
1.00-1.99	1.41	0.30	6393	
2.00-4.99	3.16	0.40	4660	
5.00-9.99	7.07	0.30	254	
> 10.00	14.14	0.30	201	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	123451	0.60
0.50-0.99	0.70	0.30	72755	
1.00-1.99	1.41	0.30	6283	
2.00-4.99	3.16	0.40	4416	
5.00-9.99	7.07	0.30	225	
> 10.00	14.14	0.30	152	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	125102	0.62
0.50-0.99	.70	0.30	75167	
1.00-1.99	1.41	0.30	6383	
2.00-4.99	3.16	0.40	4740	
5.00-9.99	7.07	0.30	316	
> 10.00	14.14	0.30	335	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	125243	0.60
0.50-0.99	0.70	0.30	74056	
1.00-1.99	1.41	0.30	6278	
2.00-4.99	3.16	0.40	4474	
5.00-9.99	7.07	0.30	237	
> 10.00	14.14	0.30	142	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	125350	0.69
0.50-0.99	.70	0.30	76869	
1.00-1.99	1.41	0.30	7011	
2.00-4.99	3.16	0.40	5939	
5.00-9.99	7.07	0.30	530	
> 10.00	14.14	0.30	1112	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	126107	0.62
0.50-0.99	0.70	0.30	76578	
1.00-1.99	1.41	0.30	6649	
2.00-4.99	3.16	0.40	5007	
5.00-9.99	7.07	0.30	323	
> 10.00	14.14	0.30	326	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	128357	0.61
0.50-0.99	.70	0.30	76778	
1.00-1.99	1.41	0.30	6468	
2.00-4.99	3.16	0.40	4898	
5.00-9.99	7.07	0.30	262	
> 10.00	14.14	0.30	219	

Aerosol Particle Measurement Record

Description of sample location 3706 Building, Room 102, Ambient Air Test, at 1.5 meters,
 Date 7/27/94, Time sample started 11:36:00, Temperature 76.0 F, Humidity 40.1 %,
 Dew Point 50.0 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers
 between sample area and outside (if applicable). 3,

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	126046	0.61
0.50-0.99	0.70	0.30	78013	
1.00-1.99	1.41	0.30	6793	
2.00-4.99	3.16	0.40	4695	
5.00-9.99	7.07	0.30	282	
> 10.00	14.14	0.30	229	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	125891	0.62
0.50-0.99	.70	0.30	77298	
1.00-1.99	1.41	0.30	6808	
2.00-4.99	3.16	0.40	4833	
5.00-9.99	7.07	0.30	304	
> 10.00	14.14	0.30	318	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	125139	0.63
0.50-0.99	0.70	0.30	77142	
1.00-1.99	1.41	0.30	7113	
2.00-4.99	3.16	0.40	5271	
5.00-9.99	7.07	0.30	320	
> 10.00	14.14	0.30	363	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	124550	0.63
0.50-0.99	.70	0.30	77306	
1.00-1.99	1.41	0.30	7015	
2.00-4.99	3.16	0.40	5131	
5.00-9.99	7.07	0.30	362	
> 10.00	14.14	0.30	302	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	130648	0.61
0.50-0.99	0.70	0.30	80145	
1.00-1.99	1.41	0.30	6880	
2.00-4.99	3.16	0.40	4772	
5.00-9.99	7.07	0.30	259	
> 10.00	14.14	0.30	188	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	128038	0.60
0.50-0.99	.70	0.30	78412	
1.00-1.99	1.41	0.30	6768	
2.00-4.99	3.16	0.40	4514	
5.00-9.99	7.07	0.30	206	
> 10.00	14.14	0.30	108	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	129149	0.60
0.50-0.99	0.70	0.30	79479	
1.00-1.99	1.41	0.30	6680	
2.00-4.99	3.16	0.40	4551	
5.00-9.99	7.07	0.30	215	
> 10.00	14.14	0.30	101	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	128597	0.60
0.50-0.99	.70	0.30	78562	
1.00-1.99	1.41	0.30	6848	
2.00-4.99	3.16	0.40	4728	
5.00-9.99	7.07	0.30	241	
> 10.00	14.14	0.30	169	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	127535	0.61
0.50-0.99	0.70	0.30	78027	
1.00-1.99	1.41	0.30	6827	
2.00-4.99	3.16	0.40	4949	
5.00-9.99	7.07	0.30	229	
> 10.00	14.14	0.30	226	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	127223	0.61
0.50-0.99	.70	0.30	78538	
1.00-1.99	1.41	0.30	7030	
2.00-4.99	3.16	0.40	4841	
5.00-9.99	7.07	0.30	273	
> 10.00	14.14	0.30	181	

Aerosol Particle Measurement Record

Description of sample location 3706 Building, Room 102, Ambient Air Test, at 2.0 meters,
Date 7/27/94, Time sample started 13:39, Temperature 82.2 F, Humidity 37.6 %, Dew
Point 53.6 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers
between sample area and outside (if applicable). 3

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	125689	0.63
0.50-0.99	0.70	0.30	75514	
1.00-1.99	1.41	0.30	6544	
2.00-4.99	3.16	0.40	4421	
5.00-9.99	7.07	0.30	327	
> 10.00	14.14	0.30	539	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	124909	0.61
0.50-0.99	.70	0.30	75201	
1.00-1.99	1.41	0.30	6444	
2.00-4.99	3.16	0.40	4139	
5.00-9.99	7.07	0.30	234	
> 10.00	14.14	0.30	395	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	125942	0.60
0.50-0.99	0.70	0.30	75429	
1.00-1.99	1.41	0.30	6194	
2.00-4.99	3.16	0.40	4014	
5.00-9.99	7.07	0.30	232	
> 10.00	14.14	0.30	228	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	126196	0.59
0.50-0.99	.70	0.30	75344	
1.00-1.99	1.41	0.30	6042	
2.00-4.99	3.16	0.40	3877	
5.00-9.99	7.07	0.30	214	
> 10.00	14.14	0.30	202	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	136207	0.58
0.50-0.99	0.70	0.30	79241	
1.00-1.99	1.41	0.30	6028	
2.00-4.99	3.16	0.40	3723	
5.00-9.99	7.07	0.30	204	
> 10.00	14.14	0.30	172	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	126566	0.59
0.50-0.99	.70	0.30	74820	
1.00-1.99	1.41	0.30	6032	
2.00-4.99	3.16	0.40	3808	
5.00-9.99	7.07	0.30	191	
> 10.00	14.14	0.30	230	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	126084	0.59
0.50-0.99	0.70	0.30	74116	
1.00-1.99	1.41	0.30	5874	
2.00-4.99	3.16	0.40	3645	
5.00-9.99	7.07	0.30	168	
> 10.00	14.14	0.30	166	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	127716	0.60
0.50-0.99	.70	0.30	75608	
1.00-1.99	1.41	0.30	6161	
2.00-4.99	3.16	0.40	4100	
5.00-9.99	7.07	0.30	252	
> 10.00	14.14	0.30	310	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	128047	0.59
0.50-0.99	0.70	0.30	75189	
1.00-1.99	1.41	0.30	5693	
2.00-4.99	3.16	0.40	3609	
5.00-9.99	7.07	0.30	191	
> 10.00	14.14	0.30	249	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	127587	0.58
0.50-0.99	.70	0.30	73536	
1.00-1.99	1.41	0.30	5696	
2.00-4.99	3.16	0.40	3479	
5.00-9.99	7.07	0.30	146	
> 10.00	14.14	0.30	129	

Data for Table 5. Mean Optical Diameter of Ambient Air in
PUREX

2 cm. (0.02 meters)

0.5 meters

1.0 meters

1.5 meters

2.0 meters

Aerosol Particle Measurement Record

Description of sample location PUREX P&O Gallery, Ambient Air Test, at 2 cm,
 Date 9/07/94, Time sample started 9:27:46, Temperature 82.2 F, Humidity 34.6 %,
 Dew Point 51.6 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers
 between sample area and outside (if applicable). 3,

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	47824	0.76
0.50-0.99	0.70	0.30	12831	
1.00-1.99	1.41	0.30	3812	
2.00-4.99	3.16	0.40	3663	
5.00-9.99	7.07	0.30	294	
> 10.00	14.14	0.30	434	

Aerosol Particle Measurement Record

Description of sample location PUREX P&O Gallery, Ambient Air Test, at 0.5 m,
 Date 9/07/94, Time sample started 9:52:20, Temperature 82.7 F, Humidity 33.7 %,
 Dew Point 51.2 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers
 between sample area and outside (if applicable) 3,

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	46464	0.64
0.50-0.99	0.70	0.30	11774	
1.00-1.99	1.41	0.30	3140	
2.00-4.99	3.16	0.40	2641	
5.00-9.99	7.07	0.30	154	
> 10.00	14.14	0.30	117	

Aerosol Particle Measurement Record

Description of sample location PUREX P&O Gallery, Ambient Air Test, at 1.0 m,
 Date 9/07/94, Time sample started 9:52:20, Temperature 82.7 F, Humidity 33.7 %,
 Dew Point 51.2 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers
 between sample area and outside (if applicable). 3,

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	48586	0.65
0.50-0.99	0.70	0.30	28638	
1.00-1.99	1.41	0.30	3072	
2.00-4.99	3.16	0.40	2596	
5.00-9.99	7.07	0.30	186	
> 10.00	14.14	0.30	97	

Aerosol Particle Measurement Record

Description of sample location PUREX P&O Gallery, Ambient Air Test, at 1.5 m,
 Date 9/07/94, Time sample started 9:36:44, Temperature 83.5 F, Humidity 33.3 %,
 Dew Point 50.8 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers
 between sample area and outside (if applicable) 3.

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	48304	0.63
0.50-0.99	0.70	0.30	29035	
1.00-1.99	1.41	0.30	3053	
2.00-4.99	3.16	0.40	2571	
5.00-9.99	7.07	0.30	158	
> 10.00	14.14	0.30	31	

Aerosol Particle Measurement Record

Description of sample location PUREX P&O Gallery, Ambient Air Test, at 2.0 m,
 Date 9/07/94, Time sample started 9:27:46, Temperature 82.2 F, Humidity 34.6 %,
 Dew Point 51.6 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers
 between sample area and outside (if applicable) 3,

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	50000	0.62
0.50-0.99	0.70	0.30	28905	
1.00-1.99	1.41	0.30	2857	
2.00-4.99	3.16	0.40	2371	
5.00-9.99	7.07	0.30	123	
> 10.00	14.14	0.30	56	

Data for Fig 2. Mean Optical Diameter Versus Time,
Building 3706A,

Fig. 3 Resuspension and Ambient Air Vs. Height, Building
3706A

Table 6. Peak Mean Diameter (μm), Versus Sampling Height,
and

Table 7. Percent of Large Particles in Breathing Zone, Building
3706A

0.5m	with	0.25m	(3)
1.0m	with	0.25m	(3)
1.5m	with	0.25m	(3)
2.0m	with	0.25m	(4)

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 0.5, Date 8/12/94, Time sample started 10:49:54, Temperature 82.0 F, Humidity 38.2 %, Dew Point 53.9 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	42162	0.87
0.50-0.99	0.70	0.30	35823	
1.00-1.99	1.41	0.30	6215	
2.00-4.99	3.16	0.40	7089	
5.00-9.99	7.07	0.30	642	
> 10.00	14.14	0.30	207	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22052	3.93
0.50-0.99	.70	0.30	48292	
1.00-1.99	1.41	0.30	22315	
2.00-4.99	3.16	0.40	44177	
5.00-9.99	7.07	0.30	9779	
> 10.00	14.14	0.30	28818	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	12523	4.70
0.50-0.99	0.70	0.30	41383	
1.00-1.99	1.41	0.30	26039	
2.00-4.99	3.16	0.40	89253	
5.00-9.99	7.07	0.30	33015	
> 10.00	14.14	0.30	38684	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	17932	1.99
0.50-0.99	.70	0.30	70863	
1.00-1.99	1.41	0.30	38109	
2.00-4.99	3.16	0.40	57855	
5.00-9.99	7.07	0.30	5736	
> 10.00	14.14	0.30	3719	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	27538	1.34
0.50-0.99	0.70	0.30	58636	
1.00-1.99	1.41	0.30	20482	
2.00-4.99	3.16	0.40	23941	
5.00-9.99	7.07	0.30	1566	
> 10.00	14.14	0.30	787	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	23242	1.56
0.50-0.99	.70	0.30	63124	
1.00-1.99	1.41	0.30	24936	
2.00-4.99	3.16	0.40	30218	
5.00-9.99	7.07	0.30	2446	
> 10.00	14.14	0.30	1828	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	36428	1.07
0.50-0.99	0.70	0.30	45704	
1.00-1.99	1.41	0.30	10867	
2.00-4.99	3.16	0.40	11843	
5.00-9.99	7.07	0.30	882	
> 10.00	14.14	0.30	653	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	27761	1.40
0.50-0.99	.70	0.30	55713	
1.00-1.99	1.41	0.30	18300	
2.00-4.99	3.16	0.40	21665	
5.00-9.99	7.07	0.30	1913	
> 10.00	14.14	0.30	1427	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	29796	1.34
0.50-0.99	0.70	0.30	52212	
1.00-1.99	1.41	0.30	16173	
2.00-4.99	3.16	0.40	18705	
5.00-9.99	7.07	0.30	1582	
> 10.00	14.14	0.30	1354	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	24766	1.53
0.50-0.99	.70	0.30	58742	
1.00-1.99	1.41	0.30	21073	
2.00-4.99	3.16	0.40	25848	
5.00-9.99	7.07	0.30	2459	
> 10.00	14.14	0.30	1921	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	23556	1.51
0.50-0.99	0.70	0.30	61429	
1.00-1.99	1.41	0.30	23368	
2.00-4.99	3.16	0.40	29024	
5.00-9.99	7.07	0.30	2356	
> 10.00	14.14	0.30	1382	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	23134	1.50
0.50-0.99	.70	0.30	63568	
1.00-1.99	1.41	0.30	25599	
2.00-4.99	3.16	0.40	31628	
5.00-9.99	7.07	0.30	2402	
> 10.00	14.14	0.30	1056	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	28626	1.30
0.50-0.99	0.70	0.30	55440	
1.00-1.99	1.41	0.30	18239	
2.00-4.99	3.16	0.40	21208	
5.00-9.99	7.07	0.30	1581	
> 10.00	14.14	0.30	705	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	29128	1.28
0.50-0.99	.70	0.30	54644	
1.00-1.99	1.41	0.30	18407	
2.00-4.99	3.16	0.40	20798	
5.00-9.99	7.07	0.30	1463	
> 10.00	14.14	0.30	614	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 25 cm, Date 8/12/94, Time sample started 10:49:54, Temperature 82.0 F, Humidity 38.2 %, Dew Point 53.9 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	58010	0.79
0.50-0.99	0.70	0.30	21610	
1.00-1.99	1.41	0.30	5642	
2.00-4.99	3.16	0.40	6054	
5.00-9.99	7.07	0.30	649	
> 10.00	14.14	0.30	252	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	7281	10.06
0.50-0.99	.70	0.30	9466	
1.00-1.99	1.41	0.30	8081	
2.00-4.99	3.16	0.40	41263	
5.00-9.99	7.07	0.30	29647	
> 10.00	14.14	0.30	147890	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	2832	8.16
0.50-0.99	0.70	0.30	8246	
1.00-1.99	1.41	0.30	11206	
2.00-4.99	3.16	0.40	84682	
5.00-9.99	7.07	0.30	65540	
> 10.00	14.14	0.30	109591	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	10533	3.88
0.50-0.99	.70	0.30	28479	
1.00-1.99	1.41	0.30	33462	
2.00-4.99	3.16	0.40	128117	
5.00-9.99	7.07	0.30	37113	
> 10.00	14.14	0.30	17951	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	20422	2.52
0.50-0.99	0.70	0.30	37288	
1.00-1.99	1.41	0.30	31042	
2.00-4.99	3.16	0.40	67424	
5.00-9.99	7.07	0.30	11116	
> 10.00	14.14	0.30	4562	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	30391	1.86
0.50-0.99	.70	0.30	32965	
1.00-1.99	1.41	0.30	19671	
2.00-4.99	3.16	0.40	32112	
5.00-9.99	7.07	0.30	4538	
> 10.00	14.14	0.30	2165	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	40824	1.41
0.50-0.99	0.70	0.30	28324	
1.00-1.99	1.41	0.30	12909	
2.00-4.99	3.16	0.40	18241	
5.00-9.99	7.07	0.30	2554	
> 10.00	14.14	0.30	1256	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	42427	1.35
0.50-0.99	.70	0.30	28228	
1.00-1.99	1.41	0.30	12571	
2.00-4.99	3.16	0.40	17283	
5.00-9.99	7.07	0.30	2287	
> 10.00	14.14	0.30	1107	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	42097	1.37
0.50-0.99	0.70	0.30	28421	
1.00-1.99	1.41	0.30	12456	
2.00-4.99	3.16	0.40	17354	
5.00-9.99	7.07	0.30	2494	
> 10.00	14.14	0.30	1194	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	40988	1.40
0.50-0.99	.70	0.30	28871	
1.00-1.99	1.41	0.30	13314	
2.00-4.99	3.16	0.40	19216	
5.00-9.99	7.07	0.30	2492	
> 10.00	14.14	0.30	1071	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	33525	1.68
0.50-0.99	0.70	0.30	32250	
1.00-1.99	1.41	0.30	18055	
2.00-4.99	3.16	0.40	28454	
5.00-9.99	7.07	0.30	3892	
> 10.00	14.14	0.30	1363	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	34212	1.64
0.50-0.99	0.70	0.30	32098	
1.00-1.99	1.41	0.30	17712	
2.00-4.99	3.16	0.40	28333	
5.00-9.99	7.07	0.30	3652	
> 10.00	14.14	0.30	1133	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	32870	1.69
0.50-0.99	.70	0.30	32338	
1.00-1.99	1.41	0.30	18689	
2.00-4.99	3.16	0.40	29515	
5.00-9.99	7.07	0.30	3899	
> 10.00	14.14	0.30	1303	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	34556	1.64
0.50-0.99	.70	0.30	32354	
1.00-1.99	1.41	0.30	18339	
2.00-4.99	3.16	0.40	29368	
5.00-9.99	7.07	0.30	3855	
> 10.00	14.14	0.30	1042	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 0.5 m, Date 8/12/94, Time sample started 12:36:11, Temperature 83.1 F, Humidity 36.8 %, Dew Point 53.9 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	58971	0.62
0.50-0.99	0.70	0.30	40639	
1.00-1.99	1.41	0.30	3254	
2.00-4.99	3.16	0.40	2463	
5.00-9.99	7.07	0.30	127	
> 10.00	14.14	0.30	67	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	21372	4.38
0.50-0.99	.70	0.30	43594	
1.00-1.99	1.41	0.30	21323	
2.00-4.99	3.16	0.40	51724	
5.00-9.99	7.07	0.30	16427	
> 10.00	14.14	0.30	33579	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	4296	5.56
0.50-0.99	0.70	0.30	28606	
1.00-1.99	1.41	0.30	29318	
2.00-4.99	3.16	0.40	136496	
5.00-9.99	7.07	0.30	53895	
> 10.00	14.14	0.30	61771	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	5861	4.17
0.50-0.99	.70	0.30	41748	
1.00-1.99	1.41	0.30	42307	
2.00-4.99	3.16	0.40	156013	
5.00-9.99	7.07	0.30	40964	
> 10.00	14.14	0.30	32451	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	29661	1.67
0.50-0.99	0.70	0.30	59322	
1.00-1.99	1.41	0.30	23472	
2.00-4.99	3.16	0.40	35201	
5.00-9.99	7.07	0.30	3560	
> 10.00	14.14	0.30	2436	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	29686	1.52
0.50-0.99	.70	0.30	62094	
1.00-1.99	1.41	0.30	23669	
2.00-4.99	3.16	0.40	30279	
5.00-9.99	7.07	0.30	2608	
> 10.00	14.14	0.30	1798	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	20719	1.77
0.50-0.99	0.70	0.30	72345	
1.00-1.99	1.41	0.30	35187	
2.00-4.99	3.16	0.40	50053	
5.00-9.99	7.07	0.30	4244	
> 10.00	14.14	0.30	2230	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22594	1.64
0.50-0.99	.70	0.30	69461	
1.00-1.99	1.41	0.30	29913	
2.00-4.99	3.16	0.40	39188	
5.00-9.99	7.07	0.30	3220	
> 10.00	14.14	0.30	1856	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	27357	1.42
0.50-0.99	0.70	0.30	61505	
1.00-1.99	1.41	0.30	21702	
2.00-4.99	3.16	0.40	26267	
5.00-9.99	7.07	0.30	2146	
> 10.00	14.14	0.30	1173	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22833	1.58
0.50-0.99	.70	0.30	69540	
1.00-1.99	1.41	0.30	29079	
2.00-4.99	3.16	0.40	36627	
5.00-9.99	7.07	0.30	2902	
> 10.00	14.14	0.30	1592	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	23920	1.55
0.50-0.99	0.70	0.30	71378	
1.00-1.99	1.41	0.30	29913	
2.00-4.99	3.16	0.40	37409	
5.00-9.99	7.07	0.30	2698	
> 10.00	14.14	0.30	1399	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22676	1.56
0.50-0.99	.70	0.30	69311	
1.00-1.99	1.41	0.30	29172	
2.00-4.99	3.16	0.40	36384	
5.00-9.99	7.07	0.30	2783	
> 10.00	14.14	0.30	1378	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	25464	1.45
0.50-0.99	0.70	0.30	66935	
1.00-1.99	1.41	0.30	26063	
2.00-4.99	3.16	0.40	31215	
5.00-9.99	7.07	0.30	2178	
> 10.00	14.14	0.30	988	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22498	1.54
0.50-0.99	.70	0.30	70003	
1.00-1.99	1.41	0.30	30140	
2.00-4.99	3.16	0.40	37462	
5.00-9.99	7.07	0.30	2622	
> 10.00	14.14	0.30	1065	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 25 cm, Date 8/12/94, Time sample started 12:36:11, Temperature 83.1 F, Humidity 36.8 %, Dew Point 53.9 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	69987	0.65
0.50-0.99	0.70	0.30	24241	
1.00-1.99	1.41	0.30	4886	
2.00-4.99	3.16	0.40	3678	
5.00-9.99	7.07	0.30	330	
> 10.00	14.14	0.30	158	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	11088	12.05
0.50-0.99	.70	0.30	5458	
1.00-1.99	1.41	0.30	2709	
2.00-4.99	3.16	0.40	17549	
5.00-9.99	7.07	0.30	14996	
> 10.00	14.14	0.30	215507	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	3480	7.37
0.50-0.99	0.70	0.30	10017	
1.00-1.99	1.41	0.30	13874	
2.00-4.99	3.16	0.40	92423	
5.00-9.99	7.07	0.30	60036	
> 10.00	14.14	0.30	85808	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	16395	3.48
0.50-0.99	.70	0.30	31960	
1.00-1.99	1.41	0.30	30730	
2.00-4.99	3.16	0.40	89901	
5.00-9.99	7.07	0.30	22728	
> 10.00	14.14	0.30	14123	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	26712	2.34
0.50-0.99	0.70	0.30	36492	
1.00-1.99	1.41	0.30	27144	
2.00-4.99	3.16	0.40	54970	
5.00-9.99	7.07	0.30	9026	
> 10.00	14.14	0.30	4151	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	46823	1.43
0.50-0.99	.70	0.30	28683	
1.00-1.99	1.41	0.30	13354	
2.00-4.99	3.16	0.40	21403	
5.00-9.99	7.07	0.30	3088	
> 10.00	14.14	0.30	1262	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	31897	2.05
0.50-0.99	0.70	0.30	34685	
1.00-1.99	1.41	0.30	23129	
2.00-4.99	3.16	0.40	44570	
5.00-9.99	7.07	0.30	6832	
> 10.00	14.14	0.30	2583	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	36268	1.66
0.50-0.99	.70	0.30	33544	
1.00-1.99	1.41	0.30	18187	
2.00-4.99	3.16	0.40	29005	
5.00-9.99	7.07	0.30	3891	
> 10.00	14.14	0.30	1448	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	38823	1.54
0.50-0.99	0.70	0.30	32809	
1.00-1.99	1.41	0.30	16719	
2.00-4.99	3.16	0.40	25838	
5.00-9.99	7.07	0.30	3290	
> 10.00	14.14	0.30	1146	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	31711	1.79
0.50-0.99	0.70	0.30	35649	
1.00-1.99	1.41	0.30	21319	
2.00-4.99	3.16	0.40	35823	
5.00-9.99	7.07	0.30	4579	
> 10.00	14.14	0.30	1443	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	28804	1.91
0.50-0.99	0.70	0.30	37077	
1.00-1.99	1.41	0.30	24448	
2.00-4.99	3.16	0.40	43401	
5.00-9.99	7.07	0.30	5583	
> 10.00	14.14	0.30	1426	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	34946	1.68
0.50-0.99	.70	0.30	34677	
1.00-1.99	1.41	0.30	19472	
2.00-4.99	3.16	0.40	31549	
5.00-9.99	7.07	0.30	3988	
> 10.00	14.14	0.30	1369	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	28567	1.92
0.50-0.99	.70	0.30	36941	
1.00-1.99	1.41	0.30	24546	
2.00-4.99	3.16	0.40	43639	
5.00-9.99	7.07	0.30	5591	
> 10.00	14.14	0.30	1576	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	26361	2.01
0.50-0.99	.70	0.30	37687	
1.00-1.99	1.41	0.30	27028	
2.00-4.99	3.16	0.40	49468	
5.00-9.99	7.07	0.30	6494	
> 10.00	14.14	0.30	1547	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 0.5 m, Date 8/12/94, Time sample started 13:27:22, Temperature 84.7 F, Humidity 37.3 %, Dew Point 55.7 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	44256	0.89
0.50-0.99	0.70	0.30	46410	
1.00-1.99	1.41	0.30	9612	
2.00-4.99	3.16	0.40	9390	
5.00-9.99	7.07	0.30	531	
> 10.00	14.14	0.30	162	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22060	5.26
0.50-0.99	.70	0.30	43668	
1.00-1.99	1.41	0.30	23963	
2.00-4.99	3.16	0.40	58229	
5.00-9.99	7.07	0.30	12269	
> 10.00	14.14	0.30	56290	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	3750	6.12
0.50-0.99	0.70	0.30	24629	
1.00-1.99	1.41	0.30	25244	
2.00-4.99	3.16	0.40	130179	
5.00-9.99	7.07	0.30	61599	
> 10.00	14.14	0.30	74918	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	8050	3.17
0.50-0.99	.70	0.30	57788	
1.00-1.99	1.41	0.30	53451	
2.00-4.99	3.16	0.40	148248	
5.00-9.99	7.07	0.30	25525	
> 10.00	14.14	0.30	14714	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	22645	1.74
0.50-0.99	0.70	0.30	63808	
1.00-1.99	1.41	0.30	21158	
2.00-4.99	3.16	0.40	34389	
5.00-9.99	7.07	0.30	3643	
> 10.00	14.14	0.30	2875	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	26631	1.50
0.50-0.99	.70	0.30	60907	
1.00-1.99	1.41	0.30	22792	
2.00-4.99	3.16	0.40	28460	
5.00-9.99	7.07	0.30	2398	
> 10.00	14.14	0.30	1586	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	25103	1.52
0.50-0.99	0.70	0.30	62862	
1.00-1.99	1.41	0.30	23831	
2.00-4.99	3.16	0.40	29375	
5.00-9.99	7.07	0.30	2578	
> 10.00	14.14	0.30	1583	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	27838	1.44
0.50-0.99	.70	0.30	59093	
1.00-1.99	1.41	0.30	20202	
2.00-4.99	3.16	0.40	24159	
5.00-9.99	7.07	0.30	2152	
> 10.00	14.14	0.30	1587	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	21925	1.60
0.50-0.99	0.70	0.30	64761	
1.00-1.99	1.41	0.30	28152	
2.00-4.99	3.16	0.40	36230	
5.00-9.99	7.07	0.30	2905	
> 10.00	14.14	0.30	1454	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	23091	1.55
0.50-0.99	.70	0.30	63513	
1.00-1.99	1.41	0.30	25688	
2.00-4.99	3.16	0.40	33082	
5.00-9.99	7.07	0.30	2579	
> 10.00	14.14	0.30	1379	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	22434	1.54
0.50-0.99	0.70	0.30	63351	
1.00-1.99	1.41	0.30	26889	
2.00-4.99	3.16	0.40	34585	
5.00-9.99	7.07	0.30	2630	
> 10.00	14.14	0.30	1003	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	26379	1.43
0.50-0.99	0.70	0.30	58519	
1.00-1.99	1.41	0.30	21988	
2.00-4.99	3.16	0.40	27748	
5.00-9.99	7.07	0.30	2054	
> 10.00	14.14	0.30	875	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	23899	1.51
0.50-0.99	.70	0.30	62005	
1.00-1.99	1.41	0.30	25046	
2.00-4.99	3.16	0.40	32352	
5.00-9.99	7.07	0.30	2394	
> 10.00	14.14	0.30	976	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22595	1.63
0.50-0.99	.70	.0.30	61678	
1.00-1.99	1.41	0.30	25412	
2.00-4.99	3.16	0.40	33033	
5.00-9.99	7.07	0.30	2672	
> 10.00	14.14	0.30	2079	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 25 cm, Date 8/12/94, Time sample started 13:27:22, Temperature 84.7 F, Humidity 37.3 %, Dew Point 55.7 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	55630	0.97
0.50-0.99	0.70	0.30	28028	
1.00-1.99	1.41	0.30	9736	
2.00-4.99	3.16	0.40	11790	
5.00-9.99	7.07	0.30	1169	
> 10.00	14.14	0.30	268	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	12182	9.64
0.50-0.99	.70	0.30	11130	
1.00-1.99	1.41	0.30	8619	
2.00-4.99	3.16	0.40	41176	
5.00-9.99	7.07	0.30	25857	
> 10.00	14.14	0.30	137107	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	6456	5.51
0.50-0.99	0.70	0.30	18127	
1.00-1.99	1.41	0.30	22728	
2.00-4.99	3.16	0.40	119987	
5.00-9.99	7.07	0.30	55413	
> 10.00	14.14	0.30	47379	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	14764	3.77
0.50-0.99	.70	0.30	27416	
1.00-1.99	1.41	0.30	28843	
2.00-4.99	3.16	0.40	110639	
5.00-9.99	7.07	0.30	34351	
> 10.00	14.14	0.30	15004	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	32297	1.95
0.50-0.99	0.70	0.30	32603	
1.00-1.99	1.41	0.30	20389	
2.00-4.99	3.16	0.40	38368	
5.00-9.99	7.07	0.30	5918	
> 10.00	14.14	0.30	2134	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	42279	1.44
0.50-0.99	.70	0.30	29795	
1.00-1.99	1.41	0.30	13606	
2.00-4.99	3.16	0.40	20881	
5.00-9.99	7.07	0.30	2838	
> 10.00	14.14	0.30	1254	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	36415	1.64
0.50-0.99	0.70	0.30	31669	
1.00-1.99	1.41	0.30	16888	
2.00-4.99	3.16	0.40	27010	
5.00-9.99	7.07	0.30	3748	
> 10.00	14.14	0.30	1407	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	35799	1.65
0.50-0.99	.70	0.30	31365	
1.00-1.99	1.41	0.30	16802	
2.00-4.99	3.16	0.40	27357	
5.00-9.99	7.07	0.30	3696	
> 10.00	14.14	0.30	1430	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	30025	1.85
0.50-0.99	0.70	0.30	33268	
1.00-1.99	1.41	0.30	20474	
2.00-4.99	3.16	0.40	36382	
5.00-9.99	7.07	0.30	5066	
> 10.00	14.14	0.30	1446	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	28349	1.92
0.50-0.99	.70	0.30	33271	
1.00-1.99	1.41	0.30	21941	
2.00-4.99	3.16	0.40	39629	
5.00-9.99	7.07	0.30	5371	
> 10.00	14.14	0.30	1509	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	28729	1.89
0.50-0.99	0.70	0.30	33016	
1.00-1.99	1.41	0.30	21099	
2.00-4.99	3.16	0.40	38313	
5.00-9.99	7.07	0.30	5207	
> 10.00	14.14	0.30	1399	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	29774	1.86
0.50-0.99	.70	0.30	32340	
1.00-1.99	1.41	0.30	20217	
2.00-4.99	3.16	0.40	36536	
5.00-9.99	7.07	0.30	5037	
> 10.00	14.14	0.30	1390	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	32020	1.75
0.50-0.99	0.70	0.30	31289	
1.00-1.99	1.41	0.30	19025	
2.00-4.99	3.16	0.40	32989	
5.00-9.99	7.07	0.30	4180	
> 10.00	14.14	0.30	1143	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	33567	1.69
0.50-0.99	.70	0.30	30672	
1.00-1.99	1.41	0.30	17493	
2.00-4.99	3.16	0.40	29955	
5.00-9.99	7.07	0.30	3946	
> 10.00	14.14	0.30	1142	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 1.0 m, Date 8/12/94, Time sample started 8:21:08, Temperature 80.3 F, Humidity 42.5 %, Dew Point 55.5 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	47783	0.87
0.50-0.99	0.70	0.30	52746	
1.00-1.99	1.41	0.30	10158	
2.00-4.99	3.16	0.40	9704	
5.00-9.99	7.07	0.30	463	
> 10.00	14.14	0.30	98	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	47255	0.87
0.50-0.99	.70	0.30	51802	
1.00-1.99	1.41	0.30	10439	
2.00-4.99	3.16	0.40	9414	
5.00-9.99	7.07	0.30	420	
> 10.00	14.14	0.30	126	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	47390	0.86
0.50-0.99	0.70	0.30	51753	
1.00-1.99	1.41	0.30	10209	
2.00-4.99	3.16	0.40	9364	
5.00-9.99	7.07	0.30	427	
> 10.00	14.14	0.30	99	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	47186	0.87
0.50-0.99	.70	0.30	53045	
1.00-1.99	1.41	0.30	10469	
2.00-4.99	3.16	0.40	9576	
5.00-9.99	7.07	0.30	442	
> 10.00	14.14	0.30	98	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	29515	1.38
0.50-0.99	0.70	0.30	69782	
1.00-1.99	1.41	0.30	24119	
2.00-4.99	3.16	0.40	26913	
5.00-9.99	7.07	0.30	1768	
> 10.00	14.14	0.30	1397	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	23122	1.59
0.50-0.99	.70	0.30	80039	
1.00-1.99	1.41	0.30	34005	
2.00-4.99	3.16	0.40	41724	
5.00-9.99	7.07	0.30	2890	
> 10.00	14.14	0.30	1857	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	23215	1.58
0.50-0.99	0.70	0.30	80160	
1.00-1.99	1.41	0.30	34454	
2.00-4.99	3.16	0.40	42085	
5.00-9.99	7.07	0.30	2988	
> 10.00	14.14	0.30	1761	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	17499	1.87
0.50-0.99	.70	0.30	86825	
1.00-1.99	1.41	0.30	49549	
2.00-4.99	3.16	0.40	70548	
5.00-9.99	7.07	0.30	5456	
> 10.00	14.14	0.30	2573	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	18677	1.78
0.50-0.99	0.70	0.30	85700	
1.00-1.99	1.41	0.30	45430	
2.00-4.99	3.16	0.40	61511	
5.00-9.99	7.07	0.30	4569	
> 10.00	14.14	0.30	2076	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	19455	1.73
0.50-0.99	.70	0.30	84918	
1.00-1.99	1.41	0.30	44051	
2.00-4.99	3.16	0.40	58886	
5.00-9.99	7.07	0.30	4121	
> 10.00	14.14	0.30	1730	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at .25 cm, Date 8/12/94, Time sample started 8:21:08, Temperature 80.3 F, Humidity 42.5 %, Dew Point 55.5 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	59034	0.95
0.50-0.99	0.70	0.30	30759	
1.00-1.99	1.41	0.30	10257	
2.00-4.99	3.16	0.40	11996	
5.00-9.99	7.07	0.30	1188	
> 10.00	14.14	0.30	257	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	19485	8.84
0.50-0.99	.70	0.30	14504	
1.00-1.99	1.41	0.30	9898	
2.00-4.99	3.16	0.40	42441	
5.00-9.99	7.07	0.30	22259	
> 10.00	14.14	0.30	120385	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	43438	1.52
0.50-0.99	0.70	0.30	29201	
1.00-1.99	1.41	0.30	13047	
2.00-4.99	3.16	0.40	19455	
5.00-9.99	7.07	0.30	3114	
> 10.00	14.14	0.30	1997	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	54655	1.10
0.50-0.99	.70	0.30	29034	
1.00-1.99	1.41	0.30	10214	
2.00-4.99	3.16	0.40	13143	
5.00-9.99	7.07	0.30	1709	
> 10.00	14.14	0.30	830	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	56256	1.06
0.50-0.99	0.70	0.30	28919	
1.00-1.99	1.41	0.30	10211	
2.00-4.99	3.16	0.40	12481	
5.00-9.99	7.07	0.30	1640	
> 10.00	14.14	0.30	711	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	43488	1.43
0.50-0.99	.70	0.30	32573	
1.00-1.99	1.41	0.30	15574	
2.00-4.99	3.16	0.40	23056	
5.00-9.99	7.07	0.30	2862	
> 10.00	14.14	0.30	1093	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	40905	1.51
0.50-0.99	0.70	0.30	33216	
1.00-1.99	1.41	0.30	16476	
2.00-4.99	3.16	0.40	25407	
5.00-9.99	7.07	0.30	3166	
> 10.00	14.14	0.30	1244	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	32957	1.83
0.50-0.99	.70	0.30	35532	
1.00-1.99	1.41	0.30	21529	
2.00-4.99	3.16	0.40	37791	
5.00-9.99	7.07	0.30	5105	
> 10.00	14.14	0.30	1577	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	26960	2.03
0.50-0.99	0.70	0.30	37758	
1.00-1.99	1.41	0.30	26478	
2.00-4.99	3.16	0.40	48968	
5.00-9.99	7.07	0.30	6666	
> 10.00	14.14	0.30	1887	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	26553	2.06
0.50-0.99	.70	0.30	37656	
1.00-1.99	1.41	0.30	26537	
2.00-4.99	3.16	0.40	50191	
5.00-9.99	7.07	0.30	6888	
> 10.00	14.14	0.30	1927	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	27061	2.04
0.50-0.99	0.70	0.30	37442	
1.00-1.99	1.41	0.30	26123	
2.00-4.99	3.16	0.40	48774	
5.00-9.99	7.07	0.30	6833	
> 10.00	14.14	0.30	1834	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	27494	1.99
0.50-0.99	.70	0.30	37406	
1.00-1.99	1.41	0.30	25364	
2.00-4.99	3.16	0.40	46858	
5.00-9.99	7.07	0.30	6234	
> 10.00	14.14	0.30	1675	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	26689	2.02
0.50-0.99	0.70	0.30	38006	
1.00-1.99	1.41	0.30	26800	
2.00-4.99	3.16	0.40	49403	
5.00-9.99	7.07	0.30	6513	
> 10.00	14.14	0.30	1724	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	38180	1.59
0.50-0.99	.70	0.30	34166	
1.00-1.99	1.41	0.30	18522	
2.00-4.99	3.16	0.40	30249	
5.00-9.99	7.07	0.30	3699	
> 10.00	14.14	0.30	944	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 1.0 m, Date 8/12/94, Time sample started 9:11:55, Temperature 80.7 F, Humidity 42.0 %, Dew Point 55.8 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	41780	0.94
0.50-0.99	0.70	0.30	51221	
1.00-1.99	1.41	0.30	12098	
2.00-4.99	3.16	0.40	11288	
5.00-9.99	7.07	0.30	514	
> 10.00	14.14	0.30	95	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	43295	0.91
0.50-0.99	.70	0.30	49929	
1.00-1.99	1.41	0.30	10979	
2.00-4.99	3.16	0.40	10457	
5.00-9.99	7.07	0.30	458	
> 10.00	14.14	0.30	118	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	28320	1.36
0.50-0.99	0.70	0.30	75612	
1.00-1.99	1.41	0.30	28026	
2.00-4.99	3.16	0.40	30205	
5.00-9.99	7.07	0.30	1709	
> 10.00	14.14	0.30	988	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	35187	1.11
0.50-0.99	.70	0.30	62355	
1.00-1.99	1.41	0.30	17963	
2.00-4.99	3.16	0.40	17761	
5.00-9.99	7.07	0.30	898	
> 10.00	14.14	0.30	329	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	34724	1.18
0.50-0.99	0.70	0.30	58634	
1.00-1.99	1.41	0.30	16604	
2.00-4.99	3.16	0.40	17588	
5.00-9.99	7.07	0.30	1209	
> 10.00	14.14	0.30	803	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	28644	1.37
0.50-0.99	.70	0.30	67733	
1.00-1.99	1.41	0.30	23054	
2.00-4.99	3.16	0.40	25831	
5.00-9.99	7.07	0.30	1745	
> 10.00	14.14	0.30	1255	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	25206	1.48
0.50-0.99	0.70	0.30	74632	
1.00-1.99	1.41	0.30	29554	
2.00-4.99	3.16	0.40	34488	
5.00-9.99	7.07	0.30	2324	
> 10.00	14.14	0.30	1409	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	33654	1.18
0.50-0.99	.70	0.30	59991	
1.00-1.99	1.41	0.30	17873	
2.00-4.99	3.16	0.40	18690	
5.00-9.99	7.07	0.30	1157	
> 10.00	14.14	0.30	635	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	21076	1.66
0.50-0.99	0.70	0.30	82783	
1.00-1.99	1.41	0.30	38970	
2.00-4.99	3.16	0.40	49416	
5.00-9.99	7.07	0.30	3421	
> 10.00	14.14	0.30	1841	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	23297	1.53
0.50-0.99	.70	0.30	78616	
1.00-1.99	1.41	0.30	33817	
2.00-4.99	3.16	0.40	40142	
5.00-9.99	7.07	0.30	2697	
> 10.00	14.14	0.30	1259	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	26173	1.39
0.50-0.99	0.70	0.30	72664	
1.00-1.99	1.41	0.30	27430	
2.00-4.99	3.16	0.40	30713	
5.00-9.99	7.07	0.30	1933	
> 10.00	14.14	0.30	877	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	22975	1.50
0.50-0.99	0.70	0.30	78900	
1.00-1.99	1.41	0.30	34026	
2.00-4.99	3.16	0.40	40010	
5.00-9.99	7.07	0.30	2456	
> 10.00	14.14	0.30	1002	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22935	1.53
0.50-0.99	.70	0.30	78823	
1.00-1.99	1.41	0.30	33597	
2.00-4.99	3.16	0.40	40303	
5.00-9.99	7.07	0.30	2620	
> 10.00	14.14	0.30	1192	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	21251	1.59
0.50-0.99	.70	0.30	82228	
1.00-1.99	1.41	0.30	37943	
2.00-4.99	3.16	0.40	47069	
5.00-9.99	7.07	0.30	3079	
> 10.00	14.14	0.30	1204	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 25 cm, Date 8/12/94, Time sample started 9:11:55, Temperature 80.7 F, Humidity 42.0 %, Dew Point 55.8 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	59669	0.89
0.50-0.99	0.70	0.30	26413	
1.00-1.99	1.41	0.30	8490	
2.00-4.99	3.16	0.40	9863	
5.00-9.99	7.07	0.30	936	
> 10.00	14.14	0.30	238	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	13365	11.59
0.50-0.99	.70	0.30	7429	
1.00-1.99	1.41	0.30	3286	
2.00-4.99	3.16	0.40	15316	
5.00-9.99	7.07	0.30	13286	
> 10.00	14.14	0.30	177764	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	35154	1.88
0.50-0.99	0.70	0.30	28105	
1.00-1.99	1.41	0.30	14439	
2.00-4.99	3.16	0.40	25399	
5.00-9.99	7.07	0.30	4416	
> 10.00	14.14	0.30	3029	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	49427	1.22
0.50-0.99	.70	0.30	25471	
1.00-1.99	1.41	0.30	9444	
2.00-4.99	3.16	0.40	13221	
5.00-9.99	7.07	0.30	2074	
> 10.00	14.14	0.30	1150	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	52602	1.08
0.50-0.99	0.70	0.30	25609	
1.00-1.99	1.41	0.30	8824	
2.00-4.99	3.16	0.40	11934	
5.00-9.99	7.07	0.30	1522	
> 10.00	14.14	0.30	766	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	54371	1.03
0.50-0.99	.70	0.30	26424	
1.00-1.99	1.41	0.30	9018	
2.00-4.99	3.16	0.40	11499	
5.00-9.99	7.07	0.30	1373	
> 10.00	14.14	0.30	596	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	54637	1.02
0.50-0.99	0.70	0.30	25872	
1.00-1.99	1.41	0.30	8734	
2.00-4.99	3.16	0.40	11130	
5.00-9.99	7.07	0.30	1324	
> 10.00	14.14	0.30	586	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	52737	1.08
0.50-0.99	.70	0.30	26576	
1.00-1.99	1.41	0.30	9703	
2.00-4.99	3.16	0.40	12607	
5.00-9.99	7.07	0.30	1559	
> 10.00	14.14	0.30	605	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	57251	0.93
0.50-0.99	0.70	0.30	26011	
1.00-1.99	1.41	0.30	8262	
2.00-4.99	3.16	0.40	9855	
5.00-9.99	7.07	0.30	1052	
> 10.00	14.14	0.30	416	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	52548	1.06
0.50-0.99	.70	0.30	27108	
1.00-1.99	1.41	0.30	9899	
2.00-4.99	3.16	0.40	12475	
5.00-9.99	7.07	0.30	1492	
> 10.00	14.14	0.30	551	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	49107	1.15
0.50-0.99	0.70	0.30	28205	
1.00-1.99	1.41	0.30	10928	
2.00-4.99	3.16	0.40	14901	
5.00-9.99	7.07	0.30	1797	
> 10.00	14.14	0.30	566	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	45886	1.26
0.50-0.99	.70	0.30	28767	
1.00-1.99	1.41	0.30	12609	
2.00-4.99	3.16	0.40	17832	
5.00-9.99	7.07	0.30	2045	
> 10.00	14.14	0.30	726	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	41926	1.38
0.50-0.99	0.70	0.30	30454	
1.00-1.99	1.41	0.30	14554	
2.00-4.99	3.16	0.40	21411	
5.00-9.99	7.07	0.30	2575	
> 10.00	14.14	0.30	715	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	37708	1.52
0.50-0.99	.70	0.30	32133	
1.00-1.99	1.41	0.30	17031	
2.00-4.99	3.16	0.40	25659	
5.00-9.99	7.07	0.30	3060	
> 10.00	14.14	0.30	945	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 1.0 m, Date 8/12/94, Time sample started 10:04:02, Temperature 81.7 F, Humidity 40.0 %, Dew Point 55.4 F, Average Wind Velocity (if applicable) .01 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	37922	0.98
0.50-0.99	0.70	0.30	50529	
1.00-1.99	1.41	0.30	12415	
2.00-4.99	3.16	0.40	11966	
5.00-9.99	7.07	0.30	563	
> 10.00	14.14	0.30	129	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	35992	1.18
0.50-0.99	.70	0.30	53685	
1.00-1.99	1.41	0.30	16330	
2.00-4.99	3.16	0.40	18836	
5.00-9.99	7.07	0.30	1248	
> 10.00	14.14	0.30	477	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	34825	1.13
0.50-0.99	0.70	0.30	56289	
1.00-1.99	1.41	0.30	16790	
2.00-4.99	3.16	0.40	17221	
5.00-9.99	7.07	0.30	1032	
> 10.00	14.14	0.30	354	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22541	1.57
0.50-0.99	.70	0.30	84207	
1.00-1.99	1.41	0.30	37760	
2.00-4.99	3.16	0.40	45133	
5.00-9.99	7.07	0.30	3033	
> 10.00	14.14	0.30	1425	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	24758	1.47
0.50-0.99	0.70	0.30	79455	
1.00-1.99	1.41	0.30	31405	
2.00-4.99	3.16	0.40	35439	
5.00-9.99	7.07	0.30	2367	
> 10.00	14.14	0.30	1335	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	24788	1.49
0.50-0.99	.70	0.30	76395	
1.00-1.99	1.41	0.30	30096	
2.00-4.99	3.16	0.40	34466	
5.00-9.99	7.07	0.30	2503	
> 10.00	14.14	0.30	1469	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	20609	1.67
0.50-0.99	0.70	0.30	84927	
1.00-1.99	1.41	0.30	40178	
2.00-4.99	3.16	0.40	50458	
5.00-9.99	7.07	0.30	3639	
> 10.00	14.14	0.30	1893	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22756	1.54
0.50-0.99	.70	0.30	81261	
1.00-1.99	1.41	0.30	34711	
2.00-4.99	3.16	0.40	41139	
5.00-9.99	7.07	0.30	2808	
> 10.00	14.14	0.30	1276	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	25172	1.42
0.50-0.99	0.70	0.30	75450	
1.00-1.99	1.41	0.30	29381	
2.00-4.99	3.16	0.40	33150	
5.00-9.99	7.07	0.30	2095	
> 10.00	14.14	0.30	828	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	24941	1.41
0.50-0.99	.70	0.30	75630	
1.00-1.99	1.41	0.30	29389	
2.00-4.99	3.16	0.40	33396	
5.00-9.99	7.07	0.30	1990	
> 10.00	14.14	0.30	777	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	28528	1.30
0.50-0.99	0.70	0.30	69485	
1.00-1.99	1.41	0.30	23663	
2.00-4.99	3.16	0.40	25887	
5.00-9.99	7.07	0.30	1600	
> 10.00	14.14	0.30	620	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	27840	1.31
0.50-0.99	.70	0.30	68944	
1.00-1.99	1.41	0.30	23849	
2.00-4.99	3.16	0.40	25956	
5.00-9.99	7.07	0.30	1588	
> 10.00	14.14	0.30	646	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	29466	1.26
0.50-0.99	0.70	0.30	66840	
1.00-1.99	1.41	0.30	22228	
2.00-4.99	3.16	0.40	23480	
5.00-9.99	7.07	0.30	1478	
> 10.00	14.14	0.30	537	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	32525	1.15
0.50-0.99	.70	0.30	58829	
1.00-1.99	1.41	0.30	17199	
2.00-4.99	3.16	0.40	18055	
5.00-9.99	7.07	0.30	1088	
> 10.00	14.14	0.30	340	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 25
cm, Date 8/12/94, Time sample started 10:04:02, Temperature 81.7 F, Humidity 40.0
%, Dew Point 55.4 F, Average Wind Velocity (if applicable) .01 m/s, # of physical
 barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	52286	0.99
0.50-0.99	0.70	0.30	25051	
1.00-1.99	1.41	0.30	8873	
2.00-4.99	3.16	0.40	11059	
5.00-9.99	7.07	0.30	1119	
> 10.00	14.14	0.30	338	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	5103	12.22
0.50-0.99	.70	0.30	4663	
1.00-1.99	1.41	0.30	3335	
2.00-4.99	3.16	0.40	18705	
5.00-9.99	7.07	0.30	15246	
> 10.00	14.14	0.30	207782	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	10483	4.28
0.50-0.99	0.70	0.30	24755	
1.00-1.99	1.41	0.30	28079	
2.00-4.99	3.16	0.40	123407	
5.00-9.99	7.07	0.30	45361	
> 10.00	14.14	0.30	22372	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	9349	4.28
0.50-0.99	.70	0.30	25170	
1.00-1.99	1.41	0.30	30869	
2.00-4.99	3.16	0.40	128481	
5.00-9.99	7.07	0.30	43183	
> 10.00	14.14	0.30	24230	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	36417	1.62
0.50-0.99	0.70	0.30	31309	
1.00-1.99	1.41	0.30	16285	
2.00-4.99	3.16	0.40	25349	
5.00-9.99	7.07	0.30	3400	
> 10.00	14.14	0.30	1570	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	36429	1.60
0.50-0.99	.70	0.30	31107	
1.00-1.99	1.41	0.30	16010	
2.00-4.99	3.16	0.40	24484	
5.00-9.99	7.07	0.30	3241	
> 10.00	14.14	0.30	1550	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	43138	1.30
0.50-0.99	0.70	0.30	27994	
1.00-1.99	1.41	0.30	12348	
2.00-4.99	3.16	0.40	16856	
5.00-9.99	7.07	0.30	2099	
> 10.00	14.14	0.30	890	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	40826	1.37
0.50-0.99	.70	0.30	29513	
1.00-1.99	1.41	0.30	13890	
2.00-4.99	3.16	0.40	19470	
5.00-9.99	7.07	0.30	2440	
> 10.00	14.14	0.30	853	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	39637	1.43
0.50-0.99	0.70	0.30	30001	
1.00-1.99	1.41	0.30	14560	
2.00-4.99	3.16	0.40	21039	
5.00-9.99	7.07	0.30	2619	
> 10.00	14.14	0.30	1036	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	40381	1.39
0.50-0.99	.70	0.30	29501	
1.00-1.99	1.41	0.30	14016	
2.00-4.99	3.16	0.40	20304	
5.00-9.99	7.07	0.30	2436	
> 10.00	14.14	0.30	875	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	41076	1.38
0.50-0.99	0.70	0.30	29304	
1.00-1.99	1.41	0.30	14087	
2.00-4.99	3.16	0.40	20149	
5.00-9.99	7.07	0.30	2323	
> 10.00	14.14	0.30	923	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	43428	1.27
0.50-0.99	0.70	0.30	27879	
1.00-1.99	1.41	0.30	12182	
2.00-4.99	3.16	0.40	17205	
5.00-9.99	7.07	0.30	2065	
> 10.00	14.14	0.30	624	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	40239	1.39
0.50-0.99	.70	0.30	30014	
1.00-1.99	1.41	0.30	14342	
2.00-4.99	3.16	0.40	20577	
5.00-9.99	7.07	0.30	2503	
> 10.00	14.14	0.30	818	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	39846	1.40
0.50-0.99	.70	0.30	29916	
1.00-1.99	1.41	0.30	14313	
2.00-4.99	3.16	0.40	21040	
5.00-9.99	7.07	0.30	2452	
> 10.00	14.14	0.30	850	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 1.5 m, Date 8/11/94, Time sample started 9:03:59, Temperature 78.4 F, Humidity 40.1 %, Dew Point 51.9 F, Average Wind Velocity (if applicable) .01 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	51325	0.77
0.50-0.99	0.70	0.30	48944	
1.00-1.99	1.41	0.30	7455	
2.00-4.99	3.16	0.40	6201	
5.00-9.99	7.07	0.30	316	
> 10.00	14.14	0.30	98	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	52072	0.76
0.50-0.99	.70	0.30	48916	
1.00-1.99	1.41	0.30	7435	
2.00-4.99	3.16	0.40	6040	
5.00-9.99	7.07	0.30	252	
> 10.00	14.14	0.30	119	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	48236	0.83
0.50-0.99	0.70	0.30	51416	
1.00-1.99	1.41	0.30	8923	
2.00-4.99	3.16	0.40	7829	
5.00-9.99	7.07	0.30	393	
> 10.00	14.14	0.30	229	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	41976	1.04
0.50-0.99	.70	0.30	58018	
1.00-1.99	1.41	0.30	13150	
2.00-4.99	3.16	0.40	12941	
5.00-9.99	7.07	0.30	903	
> 10.00	14.14	0.30	775	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	29065	1.41
0.50-0.99	0.70	0.30	72409	
1.00-1.99	1.41	0.30	23740	
2.00-4.99	3.16	0.40	26786	
5.00-9.99	7.07	0.30	2198	
> 10.00	14.14	0.30	1782	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	32883	1.26
0.50-0.99	.70	0.30	67278	
1.00-1.99	1.41	0.30	19706	
2.00-4.99	3.16	0.40	21368	
5.00-9.99	7.07	0.30	1574	
> 10.00	14.14	0.30	1084	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	24698	1.54
0.50-0.99	0.70	0.30	77884	
1.00-1.99	1.41	0.30	30811	
2.00-4.99	3.16	0.40	36942	
5.00-9.99	7.07	0.30	2801	
> 10.00	14.14	0.30	1736	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	30400	1.34
0.50-0.99	.70	0.30	69019	
1.00-1.99	1.41	0.30	22149	
2.00-4.99	3.16	0.40	24617	
5.00-9.99	7.07	0.30	1930	
> 10.00	14.14	0.30	1255	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	26992	1.45
0.50-0.99	0.70	0.30	74318	
1.00-1.99	1.41	0.30	26317	
2.00-4.99	3.16	0.40	31609	
5.00-9.99	7.07	0.30	2360	
> 10.00	14.14	0.30	1429	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	33727	1.26
0.50-0.99	.70	0.30	67665	
1.00-1.99	1.41	0.30	19620	
2.00-4.99	3.16	0.40	21511	
5.00-9.99	7.07	0.30	1685	
> 10.00	14.14	0.30	1072	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	29623	1.34
0.50-0.99	0.70	0.30	70117	
1.00-1.99	1.41	0.30	22715	
2.00-4.99	3.16	0.40	25541	
5.00-9.99	7.07	0.30	1903	
> 10.00	14.14	0.30	1097	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	31202	1.29
0.50-0.99	.70	0.30	67264	
1.00-1.99	1.41	0.30	21325	
2.00-4.99	3.16	0.40	23455	
5.00-9.99	7.07	0.30	1791	
> 10.00	14.14	0.30	891	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	35337	1.17
0.50-0.99	0.70	0.30	62019	
1.00-1.99	1.41	0.30	17231	
2.00-4.99	3.16	0.40	18468	
5.00-9.99	7.07	0.30	1313	
> 10.00	14.14	0.30	659	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	33863	1.19
0.50-0.99	.70	0.30	62928	
1.00-1.99	1.41	0.30	18073	
2.00-4.99	3.16	0.40	19529	
5.00-9.99	7.07	0.30	1317	
> 10.00	14.14	0.30	675	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 25cm, Date 8/11/94, Time sample started 9:03:59, Temperature 78.4 F, Humidity 40.1 %, Dew Point 51.9 F, Average Wind Velocity (if applicable) .01 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	64700	0.81
0.50-0.99	0.70	0.30	28784	
1.00-1.99	1.41	0.30	8132	
2.00-4.99	3.16	0.40	8239	
5.00-9.99	7.07	0.30	699	
> 10.00	14.14	0.30	178	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	16399	8.02
0.50-0.99	.70	0.30	15845	
1.00-1.99	1.41	0.30	12842	
2.00-4.99	3.16	0.40	50877	
5.00-9.99	7.07	0.30	25062	
> 10.00	14.14	0.30	97629	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	54973	1.13
0.50-0.99	0.70	0.30	26778	
1.00-1.99	1.41	0.30	8754	
2.00-4.99	3.16	0.40	10989	
5.00-9.99	7.07	0.30	1752	
> 10.00	14.14	0.30	1326	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	60265	0.96
0.50-0.99	.70	0.30	27808	
1.00-1.99	1.41	0.30	8280	
2.00-4.99	3.16	0.40	9539	
5.00-9.99	7.07	0.30	1238	
> 10.00	14.14	0.30	721	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	60074	0.95
0.50-0.99	0.70	0.30	28340	
1.00-1.99	1.41	0.30	8313	
2.00-4.99	3.16	0.40	9363	
5.00-9.99	7.07	0.30	1151	
> 10.00	14.14	0.30	724	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	62022	0.89
0.50-0.99	.70	0.30	27823	
1.00-1.99	1.41	0.30	8137	
2.00-4.99	3.16	0.40	8603	
5.00-9.99	7.07	0.30	1030	
> 10.00	14.14	0.30	535	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	60432	0.93
0.50-0.99	0.70	0.30	28459	
1.00-1.99	1.41	0.30	8663	
2.00-4.99	3.16	0.40	9706	
5.00-9.99	7.07	0.30	1028	
> 10.00	14.14	0.30	564	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	60080	0.91
0.50-0.99	.70	0.30	28884	
1.00-1.99	1.41	0.30	9082	
2.00-4.99	3.16	0.40	9848	
5.00-9.99	7.07	0.30	1011	
> 10.00	14.14	0.30	400	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	58306	0.96
0.50-0.99	0.70	0.30	29069	
1.00-1.99	1.41	0.30	9482	
2.00-4.99	3.16	0.40	10720	
5.00-9.99	7.07	0.30	1127	
> 10.00	14.14	0.30	505	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	58299	0.95
0.50-0.99	.70	0.30	28767	
1.00-1.99	1.41	0.30	9371	
2.00-4.99	3.16	0.40	10872	
5.00-9.99	7.07	0.30	1156	
> 10.00	14.14	0.30	410	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	48195	1.24
0.50-0.99	0.70	0.30	30037	
1.00-1.99	1.41	0.30	12895	
2.00-4.99	3.16	0.40	17619	
5.00-9.99	7.07	0.30	2096	
> 10.00	14.14	0.30	705	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	38658	1.54
0.50-0.99	0.70	0.30	31960	
1.00-1.99	1.41	0.30	16535	
2.00-4.99	3.16	0.40	26556	
5.00-9.99	7.07	0.30	3418	
> 10.00	14.14	0.30	916	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	43136	1.38
0.50-0.99	.70	0.30	31233	
1.00-1.99	1.41	0.30	14632	
2.00-4.99	3.16	0.40	21849	
5.00-9.99	7.07	0.30	2705	
> 10.00	14.14	0.30	728	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	38230	1.56
0.50-0.99	.70	0.30	32113	
1.00-1.99	1.41	0.30	16597	
2.00-4.99	3.16	0.40	27089	
5.00-9.99	7.07	0.30	3550	
> 10.00	14.14	0.30	953	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 1.5 m, Date 8/11/94, Time sample started 10:00:14, Temperature 78.8 F, Humidity 40.1 %, Dew Point 52.9 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	53095	0.78
0.50-0.99	0.70	0.30	50375	
1.00-1.99	1.41	0.30	7885	
2.00-4.99	3.16	0.40	7104	
5.00-9.99	7.07	0.30	312	
> 10.00	14.14	0.30	123	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	49174	0.85
0.50-0.99	.70	0.30	49849	
1.00-1.99	1.41	0.30	8583	
2.00-4.99	3.16	0.40	8171	
5.00-9.99	7.07	0.30	469	
> 10.00	14.14	0.30	287	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	48385	0.83
0.50-0.99	0.70	0.30	48669	
1.00-1.99	1.41	0.30	8572	
2.00-4.99	3.16	0.40	7744	
5.00-9.99	7.07	0.30	442	
> 10.00	14.14	0.30	189	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22559	1.68
0.50-0.99	.70	0.30	79257	
1.00-1.99	1.41	0.30	33247	
2.00-4.99	3.16	0.40	42446	
5.00-9.99	7.07	0.30	3581	
> 10.00	14.14	0.30	2785	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	20103	1.91
0.50-0.99	0.70	0.30	78718	
1.00-1.99	1.41	0.30	35768	
2.00-4.99	3.16	0.40	47436	
5.00-9.99	7.07	0.30	4870	
> 10.00	14.14	0.30	4847	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	17597	2.18
0.50-0.99	.70	0.30	75611	
1.00-1.99	1.41	0.30	35956	
2.00-4.99	3.16	0.40	50855	
5.00-9.99	7.07	0.30	6296	
> 10.00	14.14	0.30	7569	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	20246	1.98
0.50-0.99	0.70	0.30	76640	
1.00-1.99	1.41	0.30	32255	
2.00-4.99	3.16	0.40	43478	
5.00-9.99	7.07	0.30	5196	
> 10.00	14.14	0.30	5903	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	18514	2.02
0.50-0.99	.70	0.30	81849	
1.00-1.99	1.41	0.30	40084	
2.00-4.99	3.16	0.40	54737	
5.00-9.99	7.07	0.30	5986	
> 10.00	14.14	0.30	5799	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	24370	1.65
0.50-0.99	0.70	0.30	76054	
1.00-1.99	1.41	0.30	29278	
2.00-4.99	3.16	0.40	35480	
5.00-9.99	7.07	0.30	3401	
> 10.00	14.14	0.30	3098	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	21619	1.75
0.50-0.99	.70	0.30	80628	
1.00-1.99	1.41	0.30	34301	
2.00-4.99	3.16	0.40	43920	
5.00-9.99	7.07	0.30	4001	
> 10.00	14.14	0.30	3508	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	21619	1.74
0.50-0.99	0.70	0.30	80628	
1.00-1.99	1.41	0.30	34301	
2.00-4.99	3.16	0.40	43920	
5.00-9.99	7.07	0.30	4001	
> 10.00	14.14	0.30	3290	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22077	1.71
0.50-0.99	.70	0.30	79158	
1.00-1.99	1.41	0.30	34222	
2.00-4.99	3.16	0.40	43605	
5.00-9.99	7.07	0.30	3896	
> 10.00	14.14	0.30	2837	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	23024	1.62
0.50-0.99	0.70	0.30	79035	
1.00-1.99	1.41	0.30	33505	
2.00-4.99	3.16	0.40	41468	
5.00-9.99	7.07	0.30	3383	
> 10.00	14.14	0.30	2011	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22581	1.66
0.50-0.99	.70	0.30	78088	
1.00-1.99	1.41	0.30	33236	
2.00-4.99	3.16	0.40	41367	
5.00-9.99	7.07	0.30	3639	
> 10.00	14.14	0.30	2367	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 25cm, Date 8/11/94, Time sample started 10:00:14, Temperature 78.8 F, Humidity 40.1 %, Dew Point 52.9 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	60148	0.89
0.50-0.99	0.70	0.30	28678	
1.00-1.99	1.41	0.30	9062	
2.00-4.99	3.16	0.40	10062	
5.00-9.99	7.07	0.30	909	
> 10.00	14.14	0.30	257	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	13166	11.36
0.50-0.99	.70	0.30	8245	
1.00-1.99	1.41	0.30	4116	
2.00-4.99	3.16	0.40	18794	
5.00-9.99	7.07	0.30	16652	
> 10.00	14.14	0.30	179781	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	29968	2.12
0.50-0.99	0.70	0.30	32905	
1.00-1.99	1.41	0.30	19600	
2.00-4.99	3.16	0.40	35828	
5.00-9.99	7.07	0.30	6217	
> 10.00	14.14	0.30	3692	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	23109	2.47
0.50-0.99	.70	0.30	38133	
1.00-1.99	1.41	0.30	28181	
2.00-4.99	3.16	0.40	55870	
5.00-9.99	7.07	0.30	9419	
> 10.00	14.14	0.30	5481	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	37683	1.70
0.50-0.99	0.70	0.30	33109	
1.00-1.99	1.41	0.30	17086	
2.00-4.99	3.16	0.40	26132	
5.00-9.99	7.07	0.30	3931	
> 10.00	14.14	0.30	2258	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	45919	1.38
0.50-0.99	.70	0.30	31427	
1.00-1.99	1.41	0.30	13453	
2.00-4.99	3.16	0.40	18923	
5.00-9.99	7.07	0.30	2621	
> 10.00	14.14	0.30	1433	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	44786	1.38
0.50-0.99	0.70	0.30	31099	
1.00-1.99	1.41	0.30	13877	
2.00-4.99	3.16	0.40	19520	
5.00-9.99	7.07	0.30	2529	
> 10.00	14.14	0.30	1327	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	37071	1.67
0.50-0.99	.70	0.30	33998	
1.00-1.99	1.41	0.30	18089	
2.00-4.99	3.16	0.40	29223	
5.00-9.99	7.07	0.30	3990	
> 10.00	14.14	0.30	1595	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	27216	2.17
0.50-0.99	0.70	0.30	37254	
1.00-1.99	1.41	0.30	28245	
2.00-4.99	3.16	0.40	54877	
5.00-9.99	7.07	0.30	8051	
> 10.00	14.14	0.30	2633	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	24015	2.20
0.50-0.99	.70	0.30	38176	
1.00-1.99	1.41	0.30	28245	
2.00-4.99	3.16	0.40	54877	
5.00-9.99	7.07	0.30	8051	
> 10.00	14.14	0.30	2633	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	25084	2.15
0.50-0.99	0.70	0.30	37704	
1.00-1.99	1.41	0.30	26883	
2.00-4.99	3.16	0.40	51270	
5.00-9.99	7.07	0.30	7654	
> 10.00	14.14	0.30	2510	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	25407	2.11
0.50-0.99	0.70	0.30	37250	
1.00-1.99	1.41	0.30	26526	
2.00-4.99	3.16	0.40	50124	
5.00-9.99	7.07	0.30	7406	
> 10.00	14.14	0.30	2172	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	24025	2.19
0.50-0.99	.70	0.30	37727	
1.00-1.99	1.41	0.30	27806	
2.00-4.99	3.16	0.40	53583	
5.00-9.99	7.07	0.30	7991	
> 10.00	14.14	0.30	2517	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	26207	2.05
0.50-0.99	.70	0.30	36808	
1.00-1.99	1.41	0.30	25038	
2.00-4.99	3.16	0.40	47401	
5.00-9.99	7.07	0.30	6731	
> 10.00	14.14	0.30	1915	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 1.5 m, Date 8/12/94, Time sample started 7:32:55, Temperature 80.4 F, Humidity 40.1 %, Dew Point 55.0 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	60030	0.63
0.50-0.99	0.70	0.30	47283	
1.00-1.99	1.41	0.30	4571	
2.00-4.99	3.16	0.40	2667	
5.00-9.99	7.07	0.30	112	
> 10.00	14.14	0.30	49	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	63172	0.63
0.50-0.99	.70	0.30	49890	
1.00-1.99	1.41	0.30	4535	
2.00-4.99	3.16	0.40	2748	
5.00-9.99	7.07	0.30	126	
> 10.00	14.14	0.30	48	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	60438	0.64
0.50-0.99	0.70	0.30	47589	
1.00-1.99	1.41	0.30	4696	
2.00-4.99	3.16	0.40	2816	
5.00-9.99	7.07	0.30	129	
> 10.00	14.14	0.30	66	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	59802	0.64
0.50-0.99	.70	0.30	48647	
1.00-1.99	1.41	0.30	4770	
2.00-4.99	3.16	0.40	3028	
5.00-9.99	7.07	0.30	121	
> 10.00	14.14	0.30	55	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	46700	0.91
0.50-0.99	0.70	0.30	59193	
1.00-1.99	1.41	0.30	11780	
2.00-4.99	3.16	0.40	10484	
5.00-9.99	7.07	0.30	570	
> 10.00	14.14	0.30	331	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	39808	1.06
0.50-0.99	.70	0.30	63973	
1.00-1.99	1.41	0.30	15980	
2.00-4.99	3.16	0.40	15215	
5.00-9.99	7.07	0.30	948	
> 10.00	14.14	0.30	570	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	23434	1.59
0.50-0.99	0.70	0.30	84943	
1.00-1.99	1.41	0.30	37997	
2.00-4.99	3.16	0.40	45683	
5.00-9.99	7.07	0.30	3108	
> 10.00	14.14	0.30	1708	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	21882	1.65
0.50-0.99	.70	0.30	86541	
1.00-1.99	1.41	0.30	40620	
2.00-4.99	3.16	0.40	50950	
5.00-9.99	7.07	0.30	3589	
> 10.00	14.14	0.30	1941	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	19975	1.73
0.50-0.99	0.70	0.30	88796	
1.00-1.99	1.41	0.30	44793	
2.00-4.99	3.16	0.40	58894	
5.00-9.99	7.07	0.30	4206	
> 10.00	14.14	0.30	2121	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	20976	1.66
0.50-0.99	.70	0.30	87440	
1.00-1.99	1.41	0.30	41972	
2.00-4.99	3.16	0.40	52431	
5.00-9.99	7.07	0.30	3702	
> 10.00	14.14	0.30	1805	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	21740	1.61
0.50-0.99	0.70	0.30	84426	
1.00-1.99	1.41	0.30	38618	
2.00-4.99	3.16	0.40	47988	
5.00-9.99	7.07	0.30	3264	
> 10.00	14.14	0.30	1555	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	23942	1.51
0.50-0.99	0.70	0.30	80942	
1.00-1.99	1.41	0.30	34155	
2.00-4.99	3.16	0.40	40036	
5.00-9.99	7.07	0.30	2724	
> 10.00	14.14	0.30	1171	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22963	1.57
0.50-0.99	.70	0.30	81489	
1.00-1.99	1.41	0.30	35788	
2.00-4.99	3.16	0.40	43135	
5.00-9.99	7.07	0.30	3065	
> 10.00	14.14	0.30	1400	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	24169	1.51
0.50-0.99	.70	0.30	81109	
1.00-1.99	1.41	0.30	33857	
2.00-4.99	3.16	0.40	40082	
5.00-9.99	7.07	0.30	2623	
> 10.00	14.14	0.30	1242	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 25 cm, Date 8/12/94, Time sample started 7:32:55, Temperature 80.4 F, Humidity 40.1 %, Dew Point 55.0 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	73482	0.72
0.50-0.99	0.70	0.30	32304	
1.00-1.99	1.41	0.30	8101	
2.00-4.99	3.16	0.40	6233	
5.00-9.99	7.07	0.30	451	
> 10.00	14.14	0.30	126	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	16098	11.41
0.50-0.99	.70	0.30	7904	
1.00-1.99	1.41	0.30	3329	
2.00-4.99	3.16	0.40	18304	
5.00-9.99	7.07	0.30	16610	
> 10.00	14.14	0.30	190020	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	13184	3.54
0.50-0.99	0.70	0.30	32128	
1.00-1.99	1.41	0.30	34772	
2.00-4.99	3.16	0.40	105465	
5.00-9.99	7.07	0.30	24464	
> 10.00	14.14	0.30	15084	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	30516	2.00
0.50-0.99	.70	0.30	38492	
1.00-1.99	1.41	0.30	24285	
2.00-4.99	3.16	0.40	41457	
5.00-9.99	7.07	0.30	5945	
> 10.00	14.14	0.30	2945	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	56282	1.13
0.50-0.99	0.70	0.30	32649	
1.00-1.99	1.41	0.30	11748	
2.00-4.99	3.16	0.40	14273	
5.00-9.99	7.07	0.30	1867	
> 10.00	14.14	0.30	956	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	64124	0.90
0.50-0.99	.70	0.30	31201	
1.00-1.99	1.41	0.30	9339	
2.00-4.99	3.16	0.40	9667	
5.00-9.99	7.07	0.30	1035	
> 10.00	14.14	0.30	506	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	61946	0.95
0.50-0.99	0.70	0.30	31891	
1.00-1.99	1.41	0.30	9906	
2.00-4.99	3.16	0.40	10848	
5.00-9.99	7.07	0.30	1237	
> 10.00	14.14	0.30	505	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	52645	1.18
0.50-0.99	.70	0.30	33832	
1.00-1.99	1.41	0.30	13625	
2.00-4.99	3.16	0.40	17182	
5.00-9.99	7.07	0.30	2056	
> 10.00	14.14	0.30	663	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	45061	1.39
0.50-0.99	0.70	0.30	35059	
1.00-1.99	1.41	0.30	16441	
2.00-4.99	3.16	0.40	23439	
5.00-9.99	7.07	0.30	2854	
> 10.00	14.14	0.30	905	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	40819	1.51
0.50-0.99	.70	0.30	35960	
1.00-1.99	1.41	0.30	18221	
2.00-4.99	3.16	0.40	27807	
5.00-9.99	7.07	0.30	3359	
> 10.00	14.14	0.30	1001	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	35693	1.69
0.50-0.99	0.70	0.30	36664	
1.00-1.99	1.41	0.30	21043	
2.00-4.99	3.16	0.40	34470	
5.00-9.99	7.07	0.30	4472	
> 10.00	14.14	0.30	1183	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	41218	1.49
0.50-0.99	0.70	0.30	34955	
1.00-1.99	1.41	0.30	17675	
2.00-4.99	3.16	0.40	27106	
5.00-9.99	7.07	0.30	3333	
> 10.00	14.14	0.30	880	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	40329	1.52
0.50-0.99	.70	0.30	35466	
1.00-1.99	1.41	0.30	18266	
2.00-4.99	3.16	0.40	27807	
5.00-9.99	7.07	0.30	3473	
> 10.00	14.14	0.30	972	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	40828	1.49
0.50-0.99	.70	0.30	34667	
1.00-1.99	1.41	0.30	17849	
2.00-4.99	3.16	0.40	27056	
5.00-9.99	7.07	0.30	3303	
> 10.00	14.14	0.30	836	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 2.0 m, Date 8/10/94, Time sample started 10:16:43, Temperature 76.3 F, Humidity 41.5 %, Dew Point 50.5 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	32931	0.77
0.50-0.99	0.70	0.30	28249	
1.00-1.99	1.41	0.30	4685	
2.00-4.99	3.16	0.40	3993	
5.00-9.99	7.07	0.30	180	
> 10.00	14.14	0.30	63	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	32307	0.78
0.50-0.99	.70	0.30	28777	
1.00-1.99	1.41	0.30	4837	
2.00-4.99	3.16	0.40	4147	
5.00-9.99	7.07	0.30	195	
> 10.00	14.14	0.30	78	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	25122	1.40
0.50-0.99	0.70	0.30	61308	
1.00-1.99	1.41	0.30	24216	
2.00-4.99	3.16	0.40	28085	
5.00-9.99	7.07	0.30	1686	
> 10.00	14.14	0.30	702	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	16569	2.02
0.50-0.99	.70	0.30	83737	
1.00-1.99	1.41	0.30	47886	
2.00-4.99	3.16	0.40	68601	
5.00-9.99	7.07	0.30	6466	
> 10.00	14.14	0.30	4716	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	16783	2.17
0.50-0.99	0.70	0.30	79631	
1.00-1.99	1.41	0.30	40139	
2.00-4.99	3.16	0.40	54338	
5.00-9.99	7.07	0.30	6253	
> 10.00	14.14	0.30	7752	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	18673	1.96
0.50-0.99	.70	0.30	81348	
1.00-1.99	1.41	0.30	39071	
2.00-4.99	3.16	0.40	49853	
5.00-9.99	7.07	0.30	5357	
> 10.00	14.14	0.30	5468	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	19474	1.80
0.50-0.99	0.70	0.30	81037	
1.00-1.99	1.41	0.30	37469	
2.00-4.99	3.16	0.40	47344	
5.00-9.99	7.07	0.30	4367	
> 10.00	14.14	0.30	3561	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22110	1.60
0.50-0.99	.70	0.30	73979	
1.00-1.99	1.41	0.30	29236	
2.00-4.99	3.16	0.40	33402	
5.00-9.99	7.07	0.30	2920	
> 10.00	14.14	0.30	2491	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	23738	1.46
0.50-0.99	0.70	0.30	67302	
1.00-1.99	1.41	0.30	24182	
2.00-4.99	3.16	0.40	25885	
5.00-9.99	7.07	0.30	2205	
> 10.00	14.14	0.30	1737	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	21616	1.56
0.50-0.99	.70	0.30	71932	
1.00-1.99	1.41	0.30	28360	
2.00-4.99	3.16	0.40	32528	
5.00-9.99	7.07	0.30	2777	
> 10.00	14.14	0.30	1975	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	21301	1.59
0.50-0.99	0.70	0.30	74272	
1.00-1.99	1.41	0.30	30648	
2.00-4.99	3.16	0.40	35131	
5.00-9.99	7.07	0.30	2985	
> 10.00	14.14	0.30	2036	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	20509	1.62
0.50-0.99	.70	0.30	76714	
1.00-1.99	1.41	0.30	33340	
2.00-4.99	3.16	0.40	39982	
5.00-9.99	7.07	0.30	3206	
> 10.00	14.14	0.30	1881	

Sample #13

Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.38	0.21	20737	1.60
0.70	0.30	75177	
1.41	0.30	31457	
3.16	0.40	38237	
7.07	0.30	3081	
14.14	0.30	1817	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at .25 m, Date 8/10/94, Time sample started 10:16:43, Temperature 76.3 F, Humidity 41.5 %, Dew Point 50.5 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	41390	0.86
0.50-0.99	0.70	0.30	16694	
1.00-1.99	1.41	0.30	5442	
2.00-4.99	3.16	0.40	6178	
5.00-9.99	7.07	0.30	530	
> 10.00	14.14	0.30	155	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	7801	10.96
0.50-0.99	.70	0.30	6384	
1.00-1.99	1.41	0.30	5197	
2.00-4.99	3.16	0.40	33853	
5.00-9.99	7.07	0.30	28126	
> 10.00	14.14	0.30	179259	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	24548	2.13
0.50-0.99	0.70	0.30	32439	
1.00-1.99	1.41	0.30	22227	
2.00-4.99	3.16	0.40	41023	
5.00-9.99	7.07	0.30	6003	
> 10.00	14.14	0.30	2769	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	28402	1.75
0.50-0.99	.70	0.30	28682	
1.00-1.99	1.41	0.30	16692	
2.00-4.99	3.16	0.40	26837	
5.00-9.99	7.07	0.30	3484	
> 10.00	14.14	0.30	1440	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	36480	1.22
0.50-0.99	0.70	0.30	19905	
1.00-1.99	1.41	0.30	8260	
2.00-4.99	3.16	0.40	11306	
5.00-9.99	7.07	0.30	1502	
> 10.00	14.14	0.30	703	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	37737	1.13
0.50-0.99	.70	0.30	19136	
1.00-1.99	1.41	0.30	7711	
2.00-4.99	3.16	0.40	10239	
5.00-9.99	7.07	0.30	1176	
> 10.00	14.14	0.30	500	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	30528	1.63
0.50-0.99	0.70	0.30	26936	
1.00-1.99	1.41	0.30	14782	
2.00-4.99	3.16	0.40	23969	
5.00-9.99	7.07	0.30	3042	
> 10.00	14.14	0.30	1063	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	24924	1.94
0.50-0.99	.70	0.30	33107	
1.00-1.99	1.41	0.30	22077	
2.00-4.99	3.16	0.40	38364	
5.00-9.99	7.07	0.30	5048	
> 10.00	14.14	0.30	1592	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	21951	2.18
0.50-0.99	0.70	0.30	36596	
1.00-1.99	1.41	0.30	27366	
2.00-4.99	3.16	0.40	52347	
5.00-9.99	7.07	0.30	7442	
> 10.00	14.14	0.30	2310	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	21309	2.23
0.50-0.99	.70	0.30	36528	
1.00-1.99	1.41	0.30	28261	
2.00-4.99	3.16	0.40	55871	
5.00-9.99	7.07	0.30	8064	
> 10.00	14.14	0.30	2305	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	21214	2.20
0.50-0.99	0.70	0.30	36627	
1.00-1.99	1.41	0.30	27893	
2.00-4.99	3.16	0.40	54110	
5.00-9.99	7.07	0.30	7823	
> 10.00	14.14	0.30	2129	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22713	2.08
0.50-0.99	.70	0.30	34705	
1.00-1.99	1.41	0.30	24942	
2.00-4.99	3.16	0.40	46205	
5.00-9.99	7.07	0.30	6346	
> 10.00	14.14	0.30	1761	

Sample #13

Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
.38	0.21	24014	1.95
.70	0.30	32504	
1.41	0.30	21677	
3.16	0.40	38718	
7.07	0.30	5051	
14.14	0.30	1393	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 2.0 m, Date 8/10/94, Time sample started 11:33:41, Temperature 78.5 F, Humidity 38.8 %, Dew Point 51.0 F, Average Wind Velocity (if applicable) .02 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	30646	0.94
0.50-0.99	0.70	0.30	38082	
1.00-1.99	1.41	0.30	9075	
2.00-4.99	3.16	0.40	8248	
5.00-9.99	7.07	0.30	368	
> 10.00	14.14	0.30	108	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	30314	0.99
0.50-0.99	.70	0.30	38918	
1.00-1.99	1.41	0.30	9065	
2.00-4.99	3.16	0.40	8262	
5.00-9.99	7.07	0.30	471	
> 10.00	14.14	0.30	367	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	30323	0.98
0.50-0.99	0.70	0.30	38926	
1.00-1.99	1.41	0.30	9240	
2.00-4.99	3.16	0.40	8628	
5.00-9.99	7.07	0.30	464	
> 10.00	14.14	0.30	258	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	19591	1.97
0.50-0.99	.70	0.30	75809	
1.00-1.99	1.41	0.30	32645	
2.00-4.99	3.16	0.40	41129	
5.00-9.99	7.07	0.30	4749	
> 10.00	14.14	0.30	6033	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	25500	1.54
0.50-0.99	0.70	0.30	65501	
1.00-1.99	1.41	0.30	20366	
2.00-4.99	3.16	0.40	21671	
5.00-9.99	7.07	0.30	2258	
> 10.00	14.14	0.30	3109	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22762	1.77
0.50-0.99	.70	0.30	71952	
1.00-1.99	1.41	0.30	24891	
2.00-4.99	3.16	0.40	28334	
5.00-9.99	7.07	0.30	3299	
> 10.00	14.14	0.30	4873	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	24989	1.54
0.50-0.99	0.70	0.30	66501	
1.00-1.99	1.41	0.30	20843	
2.00-4.99	3.16	0.40	22663	
5.00-9.99	7.07	0.30	2399	
> 10.00	14.14	0.30	3029	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	32480	1.20
0.50-0.99	.70	0.30	54456	
1.00-1.99	1.41	0.30	13299	
2.00-4.99	3.16	0.40	13418	
5.00-9.99	7.07	0.30	1084	
> 10.00	14.14	0.30	1388	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	27101	1.34
0.50-0.99	0.70	0.30	57505	
1.00-1.99	1.41	0.30	15946	
2.00-4.99	3.16	0.40	16395	
5.00-9.99	7.07	0.30	1530	
> 10.00	14.14	0.30	1837	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	26640	1.36
0.50-0.99	.70	0.30	57789	
1.00-1.99	1.41	0.30	16945	
2.00-4.99	3.16	0.40	17779	
5.00-9.99	7.07	0.30	1624	
> 10.00	14.14	0.30	1716	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	25462	1.38
0.50-0.99	0.70	0.30	58983	
1.00-1.99	1.41	0.30	17989	
2.00-4.99	3.16	0.40	18945	
5.00-9.99	7.07	0.30	1633	
> 10.00	14.14	0.30	1734	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	26189	1.32
0.50-0.99	.70	0.30	57008	
1.00-1.99	1.41	0.30	17161	
2.00-4.99	3.16	0.40	18260	
5.00-9.99	7.07	0.30	1580	
> 10.00	14.14	0.30	1232	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at .25 m, Date 8/10/94, Time sample started 11:33:41, Temperature 78.5 F, Humidity 38.8 %, Dew Point 51.0 F, Average Wind Velocity (if applicable) .02 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	38701	1.08
0.50-0.99	0.70	0.30	21011	
1.00-1.99	1.41	0.30	8736	
2.00-4.99	3.16	0.40	10952	
5.00-9.99	7.07	0.30	1036	
> 10.00	14.14	0.30	245	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	12231	5.34
0.50-0.99	.70	0.30	23071	
1.00-1.99	1.41	0.30	21221	
2.00-4.99	3.16	0.40	83426	
5.00-9.99	7.07	0.30	37092	
> 10.00	14.14	0.30	41988	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	8249	4.68
0.50-0.99	0.70	0.30	22387	
1.00-1.99	1.41	0.30	26952	
2.00-4.99	3.16	0.40	110160	
5.00-9.99	7.07	0.30	36038	
> 10.00	14.14	0.30	31127	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	23430	2.31
0.50-0.99	.70	0.30	38151	
1.00-1.99	1.41	0.30	27358	
2.00-4.99	3.16	0.40	48710	
5.00-9.99	7.07	0.30	7217	
> 10.00	14.14	0.30	4681	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	34561	1.39
0.50-0.99	0.70	0.30	24669	
1.00-1.99	1.41	0.30	11746	
2.00-4.99	3.16	0.40	16177	
5.00-9.99	7.07	0.30	1927	
> 10.00	14.14	0.30	964	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	37249	1.22
0.50-0.99	.70	0.30	22716	
1.00-1.99	1.41	0.30	10154	
2.00-4.99	3.16	0.40	13044	
5.00-9.99	7.07	0.30	1438	
> 10.00	14.14	0.30	592	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	34828	1.38
0.50-0.99	0.70	0.30	25030	
1.00-1.99	1.41	0.30	11872	
2.00-4.99	3.16	0.40	15766	
5.00-9.99	7.07	0.30	1859	
> 10.00	14.14	0.30	977	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	32947	1.45
0.50-0.99	.70	0.30	25964	
1.00-1.99	1.41	0.30	13199	
2.00-4.99	3.16	0.40	18745	
5.00-9.99	7.07	0.30	2165	
> 10.00	14.14	0.30	867	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	28952	1.67
0.50-0.99	0.70	0.30	28189	
1.00-1.99	1.41	0.30	15949	
2.00-4.99	3.16	0.40	24724	
5.00-9.99	7.07	0.30	3283	
> 10.00	14.14	0.30	1148	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	26038	1.87
0.50-0.99	.70	0.30	30092	
1.00-1.99	1.41	0.30	18762	
2.00-4.99	3.16	0.40	32145	
5.00-9.99	7.07	0.30	4320	
> 10.00	14.14	0.30	1527	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	26950	1.79
0.50-0.99	0.70	0.30	28139	
1.00-1.99	1.41	0.30	17128	
2.00-4.99	3.16	0.40	29193	
5.00-9.99	7.07	0.30	4032	
> 10.00	14.14	0.30	1114	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	26872	1.76
0.50-0.99	.70	0.30	27553	
1.00-1.99	1.41	0.30	16551	
2.00-4.99	3.16	0.40	27966	
5.00-9.99	7.07	0.30	3676	
> 10.00	14.14	0.30	1096	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 2.0 m, Date 8/10/94, Time sample started 13:03:12, Temperature 80.5 F, Humidity 36.3 %, Dew Point 56.8 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	37482	0.74
0.50-0.99	0.70	0.30	31023	
1.00-1.99	1.41	0.30	4547	
2.00-4.99	3.16	0.40	3950	
5.00-9.99	7.07	0.30	160	
> 10.00	14.14	0.30	87	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	36468	0.80
0.50-0.99	.70	0.30	31863	
1.00-1.99	1.41	0.30	5095	
2.00-4.99	3.16	0.40	4609	
5.00-9.99	7.07	0.30	298	
> 10.00	14.14	0.30	193	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	32646	1.16
0.50-0.99	0.70	0.30	42633	
1.00-1.99	1.41	0.30	10516	
2.00-4.99	3.16	0.40	11243	
5.00-9.99	7.07	0.30	1168	
> 10.00	14.14	0.30	1024	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	23602	1.67
0.50-0.99	.70	0.30	70717	
1.00-1.99	1.41	0.30	30610	
2.00-4.99	3.16	0.40	38622	
5.00-9.99	7.07	0.30	3284	
> 10.00	14.14	0.30	2574	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	25497	1.54
0.50-0.99	0.70	0.30	67151	
1.00-1.99	1.41	0.30	22073	
2.00-4.99	3.16	0.40	24483	
5.00-9.99	7.07	0.30	2363	
> 10.00	14.14	0.30	2901	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	24218	1.74
0.50-0.99	.70	0.30	69710	
1.00-1.99	1.41	0.30	23836	
2.00-4.99	3.16	0.40	27537	
5.00-9.99	7.07	0.30	3230	
> 10.00	14.14	0.30	4560	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	21112	1.80
0.50-0.99	0.70	0.30	75909	
1.00-1.99	1.41	0.30	30434	
2.00-4.99	3.16	0.40	36509	
5.00-9.99	7.07	0.30	3916	
> 10.00	14.14	0.30	4454	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	19300	1.96
0.50-0.99	.70	0.30	78960	
1.00-1.99	1.41	0.30	35864	
2.00-4.99	3.16	0.40	45827	
5.00-9.99	7.07	0.30	5006	
> 10.00	14.14	0.30	5741	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	18747	2.01
0.50-0.99	0.70	0.30	77685	
1.00-1.99	1.41	0.30	35743	
2.00-4.99	3.16	0.40	45840	
5.00-9.99	7.07	0.30	5310	
> 10.00	14.14	0.30	6144	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	18593	1.95
0.50-0.99	.70	0.30	81403	
1.00-1.99	1.41	0.30	38885	
2.00-4.99	3.16	0.40	50160	
5.00-9.99	7.07	0.30	5429	
> 10.00	14.14	0.30	5184	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	18926	1.91
0.50-0.99	0.70	0.30	80830	
1.00-1.99	1.41	0.30	37636	
2.00-4.99	3.16	0.40	48801	
5.00-9.99	7.07	0.30	4965	
> 10.00	14.14	0.30	4745	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	19082	1.84
0.50-0.99	0.70	0.30	83207	
1.00-1.99	1.41	0.30	40317	
2.00-4.99	3.16	0.40	51284	
5.00-9.99	7.07	0.30	4841	
> 10.00	14.14	0.30	3899	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	19584	1.84
0.50-0.99	.70	0.30	80913	
1.00-1.99	1.41	0.30	38139	
2.00-4.99	3.16	0.40	48307	
5.00-9.99	7.07	0.30	4683	
> 10.00	14.14	0.30	3965	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	19542	1.78
0.50-0.99	.70	0.30	81177	
1.00-1.99	1.41	0.30	37907	
2.00-4.99	3.16	0.40	48398	
5.00-9.99	7.07	0.30	4488	
> 10.00	14.14	0.30	3121	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at .25 m, Date 8/10/94, Time sample started 13:03:12, Temperature 80.5 F, Humidity 36.3 %, Dew Point 56.8 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	46299	0.83
0.50-0.99	0.70	0.30	17838	
1.00-1.99	1.41	0.30	5356	
2.00-4.99	3.16	0.40	6090	
5.00-9.99	7.07	0.30	570	
> 10.00	14.14	0.30	177	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	931	11.62
0.50-0.99	.70	0.30	2896	
1.00-1.99	1.41	0.30	3682	
2.00-4.99	3.16	0.40	32216	
5.00-9.99	7.07	0.30	30361	
> 10.00	14.14	0.30	194704	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	4376	6.84
0.50-0.99	0.70	0.30	12941	
1.00-1.99	1.41	0.30	17087	
2.00-4.99	3.16	0.40	99838	
5.00-9.99	7.07	0.30	56300	
> 10.00	14.14	0.30	76029	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	14259	3.38
0.50-0.99	.70	0.30	33529	
1.00-1.99	1.41	0.30	34274	
2.00-4.99	3.16	0.40	100322	
5.00-9.99	7.07	0.30	22792	
> 10.00	14.14	0.30	12864	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	28428	1.94
0.50-0.99	0.70	0.30	29524	
1.00-1.99	1.41	0.30	18008	
2.00-4.99	3.16	0.40	30997	
5.00-9.99	7.07	0.30	4652	
> 10.00	14.14	0.30	2379	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	31459	1.70
0.50-0.99	.70	0.30	27479	
1.00-1.99	1.41	0.30	15131	
2.00-4.99	3.16	0.40	23544	
5.00-9.99	7.07	0.30	3362	
> 10.00	14.14	0.30	1659	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	24414	2.13
0.50-0.99	0.70	0.30	33692	
1.00-1.99	1.41	0.30	22693	
2.00-4.99	3.16	0.40	40659	
5.00-9.99	7.07	0.30	6080	
> 10.00	14.14	0.30	2898	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	23146	2.19
0.50-0.99	.70	0.30	35430	
1.00-1.99	1.41	0.30	25159	
2.00-4.99	3.16	0.40	45407	
5.00-9.99	7.07	0.30	6817	
> 10.00	14.14	0.30	3093	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	20706	2.39
0.50-0.99	0.70	0.30	37622	
1.00-1.99	1.41	0.30	30476	
2.00-4.99	3.16	0.40	61317	
5.00-9.99	7.07	0.30	9677	
> 10.00	14.14	0.30	3554	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	19227	2.50
0.50-0.99	.70	0.30	38843	
1.00-1.99	1.41	0.30	33543	
2.00-4.99	3.16	0.40	72983	
5.00-9.99	7.07	0.30	11864	
> 10.00	14.14	0.30	3898	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	18256	2.57
0.50-0.99	0.70	0.30	39214	
1.00-1.99	1.41	0.30	35010	
2.00-4.99	3.16	0.40	80158	
5.00-9.99	7.07	0.30	13383	
> 10.00	14.14	0.30	4011	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	18368	2.55
0.50-0.99	.70	0.30	38589	
1.00-1.99	1.41	0.30	34902	
2.00-4.99	3.16	0.40	78684	
5.00-9.99	7.07	0.30	12949	
> 10.00	14.14	0.30	3795	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	19529	2.47
0.50-0.99	0.70	0.30	38701	
1.00-1.99	1.41	0.30	33410	
2.00-4.99	3.16	0.40	73292	
5.00-9.99	7.07	0.30	11939	
> 10.00	14.14	0.30	3313	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	20512	2.36
0.50-0.99	.70	0.30	38809	
1.00-1.99	1.41	0.30	31778	
2.00-4.99	3.16	0.40	66830	
5.00-9.99	7.07	0.30	10368	
> 10.00	14.14	0.30	2769	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at 2.0 m, Date 8/11/94, Time sample started 7:47:09, Temperature 77.8 F, Humidity 41.3 %, Dew Point 52.7 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	46036	0.83
0.50-0.99	0.70	0.30	52816	
1.00-1.99	1.41	0.30	10036	
2.00-4.99	3.16	0.40	7829	
5.00-9.99	7.07	0.30	288	
> 10.00	14.14	0.30	103	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	45821	0.82
0.50-0.99	.70	0.30	52985	
1.00-1.99	1.41	0.30	10032	
2.00-4.99	3.16	0.40	7593	
5.00-9.99	7.07	0.30	297	
> 10.00	14.14	0.30	90	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	43440	0.88
0.50-0.99	0.70	0.30	55026	
1.00-1.99	1.41	0.30	11257	
2.00-4.99	3.16	0.40	8911	
5.00-9.99	7.07	0.30	413	
> 10.00	14.14	0.30	176	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	31847	1.39
0.50-0.99	.70	0.30	71009	
1.00-1.99	1.41	0.30	23607	
2.00-4.99	3.16	0.40	25599	
5.00-9.99	7.07	0.30	2124	
> 10.00	14.14	0.30	1768	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	16932	2.13
0.50-0.99	0.70	0.30	83904	
1.00-1.99	1.41	0.30	46648	
2.00-4.99	3.16	0.40	68800	
5.00-9.99	7.07	0.30	7595	
> 10.00	14.14	0.30	6232	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	20247	1.86
0.50-0.99	.70	0.30	84628	
1.00-1.99	1.41	0.30	39648	
2.00-4.99	3.16	0.40	51733	
5.00-9.99	7.07	0.30	5295	
> 10.00	14.14	0.30	4086	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	19344	1.90
0.50-0.99	0.70	0.30	84824	
1.00-1.99	1.41	0.30	41330	
2.00-4.99	3.16	0.40	55947	
5.00-9.99	7.07	0.30	5705	
> 10.00	14.14	0.30	4246	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	21109	1.77
0.50-0.99	.70	0.30	83936	
1.00-1.99	1.41	0.30	37268	
2.00-4.99	3.16	0.40	47643	
5.00-9.99	7.07	0.30	4622	
> 10.00	14.14	0.30	3345	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	22048	1.71
0.50-0.99	0.70	0.30	83498	
1.00-1.99	1.41	0.30	35626	
2.00-4.99	3.16	0.40	43528	
5.00-9.99	7.07	0.30	4199	
> 10.00	14.14	0.30	3076	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	23624	1.61
0.50-0.99	.70	0.30	80851	
1.00-1.99	1.41	0.30	31498	
2.00-4.99	3.16	0.40	37733	
5.00-9.99	7.07	0.30	3554	
> 10.00	14.14	0.30	2541	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	24118	1.58
0.50-0.99	0.70	0.30	79421	
1.00-1.99	1.41	0.30	31030	
2.00-4.99	3.16	0.40	36595	
5.00-9.99	7.07	0.30	3283	
> 10.00	14.14	0.30	2191	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	26479	1.47
0.50-0.99	0.70	0.30	76072	
1.00-1.99	1.41	0.30	27381	
2.00-4.99	3.16	0.40	31389	
5.00-9.99	7.07	0.30	2630	
> 10.00	14.14	0.30	1736	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	25760	1.48
0.50-0.99	.70	0.30	77047	
1.00-1.99	1.41	0.30	28069	
2.00-4.99	3.16	0.40	32197	
5.00-9.99	7.07	0.30	2779	
> 10.00	14.14	0.30	1580	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	25465	1.49
0.50-0.99	.70	0.30	74531	
1.00-1.99	1.41	0.30	27219	
2.00-4.99	3.16	0.40	31963	
5.00-9.99	7.07	0.30	2805	
> 10.00	14.14	0.30	1624	

Aerosol Particle Measurement Record

Description of sample location 3706A Building, Resuspension Test, at .25 m, Date 8/11/94, Time sample started 7:47:09, Temperature 77.8 F, Humidity 41.3 %, Dew Point 52.7 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 1

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	55086	0.97
0.50-0.99	0.70	0.30	31031	
1.00-1.99	1.41	0.30	11399	
2.00-4.99	3.16	0.40	12202	
5.00-9.99	7.07	0.30	908	
> 10.00	14.14	0.30	232	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	15224	8.71
0.50-0.99	.70	0.30	13753	
1.00-1.99	1.41	0.30	10315	
2.00-4.99	3.16	0.40	48133	
5.00-9.99	7.07	0.30	27552	
> 10.00	14.14	0.30	115020	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	48040	1.22
0.50-0.99	0.70	0.30	29238	
1.00-1.99	1.41	0.30	11972	
2.00-4.99	3.16	0.40	14859	
5.00-9.99	7.07	0.30	1808	
> 10.00	14.14	0.30	1075	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	49352	1.16
0.50-0.99	.70	0.30	30594	
1.00-1.99	1.41	0.30	12279	
2.00-4.99	3.16	0.40	14920	
5.00-9.99	7.07	0.30	1612	
> 10.00	14.14	0.30	810	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	50671	1.10
0.50-0.99	0.70	0.30	30365	
1.00-1.99	1.41	0.30	12086	
2.00-4.99	3.16	0.40	14119	
5.00-9.99	7.07	0.30	1474	
> 10.00	14.14	0.30	574	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	43641	1.35
0.50-0.99	.70	0.30	33187	
1.00-1.99	1.41	0.30	15188	
2.00-4.99	3.16	0.40	20718	
5.00-9.99	7.07	0.30	2371	
> 10.00	14.14	0.30	895	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	42790	1.38
0.50-0.99	0.70	0.30	32827	
1.00-1.99	1.41	0.30	14998	
2.00-4.99	3.16	0.40	20980	
5.00-9.99	7.07	0.30	2489	
> 10.00	14.14	0.30	1029	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	30064	1.91
0.50-0.99	.70	0.30	36070	
1.00-1.99	1.41	0.30	22828	
2.00-4.99	3.16	0.40	39990	
5.00-9.99	7.07	0.30	5519	
> 10.00	14.14	0.30	1795	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	30426	1.88
0.50-0.99	0.70	0.30	36149	
1.00-1.99	1.41	0.30	22506	
2.00-4.99	3.16	0.40	39356	
5.00-9.99	7.07	0.30	5212	
> 10.00	14.14	0.30	1734	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	35118	1.66
0.50-0.99	.70	0.30	34791	
1.00-1.99	1.41	0.30	19490	
2.00-4.99	3.16	0.40	30675	
5.00-9.99	7.07	0.30	4043	
> 10.00	14.14	0.30	1277	

Sample #11

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	34694	1.69
0.50-0.99	0.70	0.30	34156	
1.00-1.99	1.41	0.30	19357	
2.00-4.99	3.16	0.40	31235	
5.00-9.99	7.07	0.30	4190	
> 10.00	14.14	0.30	1266	

Sample #13

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	43918	1.35
0.50-0.99	0.70	0.30	31767	
1.00-1.99	1.41	0.30	14916	
2.00-4.99	3.16	0.40	20903	
5.00-9.99	7.07	0.30	2521	
> 10.00	14.14	0.30	758	

Sample #12

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	40348	1.49
0.50-0.99	.70	0.30	33104	
1.00-1.99	1.41	0.30	16936	
2.00-4.99	3.16	0.40	25233	
5.00-9.99	7.07	0.30	3200	
> 10.00	14.14	0.30	955	

Sample #14

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	48136	1.21
0.50-0.99	.70	0.30	31121	
1.00-1.99	1.41	0.30	13522	
2.00-4.99	3.16	0.40	18005	
5.00-9.99	7.07	0.30	1941	
> 10.00	14.14	0.30	499	

Data for Fig. 4 Resuspension and Ambient Air Vs. Height,
Building 3706, Room 102

Table 6. Peak Mean Diameter (μm), Versus Sampling Height,

and

Table 8. Percent of Large Particles in Breathing Zone, Building
3706, Room 102

0.5m	with	0.25m
1.0m	with	0.25m
1.5m	with	0.25m
2.0m	with	0.25m

Aerosol Particle Measurement Record

Description of sample location 3706 Building, Resuspension Test, at 0.5 m, Date 8/26/94, Time sample started 14:46:18, Temperature 78.9 F, Humidity 36.1 %, Dew Point 50.0 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 2

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	32548	0.72
0.50-0.99	0.70	0.30	9432	
1.00-1.99	1.41	0.30	2343	
2.00-4.99	3.16	0.40	2217	
5.00-9.99	7.07	0.30	202	
> 10.00	14.14	0.30	205	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	26244	1.48
0.50-0.99	.70	0.30	10272	
1.00-1.99	1.41	0.30	3751	
2.00-4.99	3.16	0.40	6339	
5.00-9.99	7.07	0.30	1393	
> 10.00	14.14	0.30	1486	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	22365	1.95
0.50-0.99	0.70	0.30	10177	
1.00-1.99	1.41	0.30	4591	
2.00-4.99	3.16	0.40	9289	
5.00-9.99	7.07	0.30	2332	
> 10.00	14.14	0.30	2210	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	25869	1.46
0.50-0.99	.70	0.30	9789	
1.00-1.99	1.41	0.30	3753	
2.00-4.99	3.16	0.40	6228	
5.00-9.99	7.07	0.30	1418	
> 10.00	14.14	0.30	1345	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	25962	1.42
0.50-0.99	0.70	0.30	9663	
1.00-1.99	1.41	0.30	3535	
2.00-4.99	3.16	0.40	6083	
5.00-9.99	7.07	0.30	1373	
> 10.00	14.14	0.30	1216	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	28063	1.19
0.50-0.99	.70	0.30	9325	
1.00-1.99	1.41	0.30	3049	
2.00-4.99	3.16	0.40	4601	
5.00-9.99	7.07	0.30	987	
> 10.00	14.14	0.30	894	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	28916	1.06
0.50-0.99	0.70	0.30	9233	
1.00-1.99	1.41	0.30	2833	
2.00-4.99	3.16	0.40	3937	
5.00-9.99	7.07	0.30	841	
> 10.00	14.14	0.30	666	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	28748	1.02
0.50-0.99	.70	0.30	9104	
1.00-1.99	1.41	0.30	2781	
2.00-4.99	3.16	0.40	3731	
5.00-9.99	7.07	0.30	721	
> 10.00	14.14	0.30	617	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	30073	0.91
0.50-0.99	0.70	0.30	9186	
1.00-1.99	1.41	0.30	2586	
2.00-4.99	3.16	0.40	3197	
5.00-9.99	7.07	0.30	556	
> 10.00	14.14	0.30	438	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	30605	0.85
0.50-0.99	.70	0.30	8904	
1.00-1.99	1.41	0.30	2506	
2.00-4.99	3.16	0.40	2971	
5.00-9.99	7.07	0.30	471	
> 10.00	14.14	0.30	356	

Aerosol Particle Measurement Record

Description of sample location 3706 Building, Resuspension Test, at 0.25 m, Date 8/26/94, Time sample started 14:46:18, Temperature 78.9 F, Humidity 36.1 %, Dew Point 50.0 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 2

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	31599	0.72
0.50-0.99	0.70	0.30	21293	
1.00-1.99	1.41	0.30	2456	
2.00-4.99	3.16	0.40	2177	
5.00-9.99	7.07	0.30	232	
> 10.00	14.14	0.30	209	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	12257	3.60
0.50-0.99	.70	0.30	20305	
1.00-1.99	1.41	0.30	10208	
2.00-4.99	3.16	0.40	25461	
5.00-9.99	7.07	0.30	7110	
> 10.00	14.14	0.30	10153	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	14459	2.56
0.50-0.99	0.70	0.30	18818	
1.00-1.99	1.41	0.30	7499	
2.00-4.99	3.16	0.40	15862	
5.00-9.99	7.07	0.30	4064	
> 10.00	14.14	0.30	4087	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	24236	1.53
0.50-0.99	.70	0.30	20791	
1.00-1.99	1.41	0.30	4750	
2.00-4.99	3.16	0.40	8338	
5.00-9.99	7.07	0.30	1890	
> 10.00	14.14	0.30	1711	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	26566	1.17
0.50-0.99	0.70	0.30	19923	
1.00-1.99	1.41	0.30	3360	
2.00-4.99	3.16	0.40	4871	
5.00-9.99	7.07	0.30	950	
> 10.00	14.14	0.30	1093	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	28657	0.96
0.50-0.99	.70	0.30	20308	
1.00-1.99	1.41	0.30	2742	
2.00-4.99	3.16	0.40	3490	
5.00-9.99	7.07	0.30	593	
> 10.00	14.14	0.30	728	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	28875	0.90
0.50-0.99	0.70	0.30	20066	
1.00-1.99	1.41	0.30	2581	
2.00-4.99	3.16	0.40	3241	
5.00-9.99	7.07	0.30	522	
> 10.00	14.14	0.30	533	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	30780	0.81
0.50-0.99	.70	0.30	20337	
1.00-1.99	1.41	0.30	2293	
2.00-4.99	3.16	0.40	2417	
5.00-9.99	7.07	0.30	414	
> 10.00	14.14	0.30	416	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	37088	0.76
0.50-0.99	0.70	0.30	21944	
1.00-1.99	1.41	0.30	2436	
2.00-4.99	3.16	0.40	2548	
5.00-9.99	7.07	0.30	349	
> 10.00	14.14	0.30	391	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	30596	0.78
0.50-0.99	.70	0.30	20027	
1.00-1.99	1.41	0.30	2285	
2.00-4.99	3.16	0.40	2421	
5.00-9.99	7.07	0.30	380	
> 10.00	14.14	0.30	327	

Aerosol Particle Measurement Record

Description of sample location 3706 Building, Resuspension Test, at 1.0 m, Date 8/26/94, Time sample started 14:01:18, Temperature 77.9 F, Humidity 37.2 %, Dew Point 49.9 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 2

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	37461	0.70
0.50-0.99	0.70	0.30	12317	
1.00-1.99	1.41	0.30	3133	
2.00-4.99	3.16	0.40	2597	
5.00-9.99	7.07	0.30	188	
> 10.00	14.14	0.30	168	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	37235	0.73
0.50-0.99	.70	0.30	12532	
1.00-1.99	1.41	0.30	3263	
2.00-4.99	3.16	0.40	2783	
5.00-9.99	7.07	0.30	276	
> 10.00	14.14	0.30	190	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	20032	2.34
0.50-0.99	0.70	0.30	14579	
1.00-1.99	1.41	0.30	8052	
2.00-4.99	3.16	0.40	17134	
5.00-9.99	7.07	0.30	3842	
> 10.00	14.14	0.30	3258	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	23284	1.93
0.50-0.99	.70	0.30	13484	
1.00-1.99	1.41	0.30	6641	
2.00-4.99	3.16	0.40	13264	
5.00-9.99	7.07	0.30	2734	
> 10.00	14.14	0.30	2095	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	27851	1.49
0.50-0.99	0.70	0.30	13115	
1.00-1.99	1.41	0.30	5406	
2.00-4.99	3.16	0.40	8964	
5.00-9.99	7.07	0.30	1711	
> 10.00	14.14	0.30	1344	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	29569	1.31
0.50-0.99	.70	0.30	12785	
1.00-1.99	1.41	0.30	4727	
2.00-4.99	3.16	0.40	7379	
5.00-9.99	7.07	0.30	1320	
> 10.00	14.14	0.30	1058	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	31195	1.15
0.50-0.99	0.70	0.30	12276	
1.00-1.99	1.41	0.30	4234	
2.00-4.99	3.16	0.40	6048	
5.00-9.99	7.07	0.30	1031	
> 10.00	14.14	0.30	794	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	32843	1.01
0.50-0.99	.70	0.30	12225	
1.00-1.99	1.41	0.30	3773	
2.00-4.99	3.16	0.40	4860	
5.00-9.99	7.07	0.30	819	
> 10.00	14.14	0.30	576	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	33644	0.93
0.50-0.99	0.70	0.30	11775	
1.00-1.99	1.41	0.30	3571	
2.00-4.99	3.16	0.40	4199	
5.00-9.99	7.07	0.30	636	
> 10.00	14.14	0.30	485	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	33934	0.88
0.50-0.99	.70	0.30	11761	
1.00-1.99	1.41	0.30	3429	
2.00-4.99	3.16	0.40	3885	
5.00-9.99	7.07	0.30	557	
> 10.00	14.14	0.30	359	

Aerosol Particle Measurement Record

Description of sample location 3706 Building, Resuspension Test, at .25 m, Date 8/26/94, Time sample started 14:01:18, Temperature 77.9 F, Humidity 37.2 %, Dew Point 49.9 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 2

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	35911	0.70
0.50-0.99	0.70	0.30	27136	
1.00-1.99	1.41	0.30	2964	
2.00-4.99	3.16	0.40	2348	
5.00-9.99	7.07	0.30	225	
> 10.00	14.14	0.30	149	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	26546	1.81
0.50-0.99	.70	0.30	24784	
1.00-1.99	1.41	0.30	5387	
2.00-4.99	3.16	0.40	9448	
5.00-9.99	7.07	0.30	2393	
> 10.00	14.14	0.30	3418	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	14746	2.58
0.50-0.99	0.70	0.30	21576	
1.00-1.99	1.41	0.30	8636	
2.00-4.99	3.16	0.40	19430	
5.00-9.99	7.07	0.30	4821	
> 10.00	14.14	0.30	4347	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	24397	1.63
0.50-0.99	.70	0.30	23632	
1.00-1.99	1.41	0.30	5247	
2.00-4.99	3.16	0.40	9112	
5.00-9.99	7.07	0.30	1981	
> 10.00	14.14	0.30	2332	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	26525	1.38
0.50-0.99	0.70	0.30	23503	
1.00-1.99	1.41	0.30	4385	
2.00-4.99	3.16	0.40	6865	
5.00-9.99	7.07	0.30	1419	
> 10.00	14.14	0.30	1722	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	30191	1.09
0.50-0.99	.70	0.30	24604	
1.00-1.99	1.41	0.30	3773	
2.00-4.99	3.16	0.40	4823	
5.00-9.99	7.07	0.30	951	
> 10.00	14.14	0.30	1092	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	30790	1.00
0.50-0.99	0.70	0.30	24364	
1.00-1.99	1.41	0.30	3473	
2.00-4.99	3.16	0.40	4315	
5.00-9.99	7.07	0.30	797	
> 10.00	14.14	0.30	802	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	31481	0.94
0.50-0.99	.70	0.30	24605	
1.00-1.99	1.41	0.30	3529	
2.00-4.99	3.16	0.40	3902	
5.00-9.99	7.07	0.30	629	
> 10.00	14.14	0.30	732	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	32333	0.89
0.50-0.99	0.70	0.30	24627	
1.00-1.99	1.41	0.30	3253	
2.00-4.99	3.16	0.40	3577	
5.00-9.99	7.07	0.30	561	
> 10.00	14.14	0.30	595	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	33075	0.84
0.50-0.99	.70	0.30	25243	
1.00-1.99	1.41	0.30	3266	
2.00-4.99	3.16	0.40	3260	
5.00-9.99	7.07	0.30	537	
> 10.00	14.14	0.30	446	

Aerosol Particle Measurement Record

Description of sample location 3706 Building, Resuspension Test, at 1.5 m, Date 8/26/94, Time sample started 13:17:27, Temperature 76.9 F, Humidity 37.5 %, Dew Point 49.1 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 2

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	32880	0.73
0.50-0.99	0.70	0.30	9616	
1.00-1.99	1.41	0.30	2490	
2.00-4.99	3.16	0.40	2256	
5.00-9.99	7.07	0.30	233	
> 10.00	14.14	0.30	236	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	33082	0.69
0.50-0.99	.70	0.30	9376	
1.00-1.99	1.41	0.30	2366	
2.00-4.99	3.16	0.40	2184	
5.00-9.99	7.07	0.30	198	
> 10.00	14.14	0.30	141	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	27125	1.29
0.50-0.99	0.70	0.30	10238	
1.00-1.99	1.41	0.30	3813	
2.00-4.99	3.16	0.40	5919	
5.00-9.99	7.07	0.30	1188	
> 10.00	14.14	0.30	941	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	21662	1.94
0.50-0.99	.70	0.30	11172	
1.00-1.99	1.41	0.30	5521	
2.00-4.99	3.16	0.40	11529	
5.00-9.99	7.07	0.30	2654	
> 10.00	14.14	0.30	1857	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	23393	1.72
0.50-0.99	0.70	0.30	10968	
1.00-1.99	1.41	0.30	4930	
2.00-4.99	3.16	0.40	9647	
5.00-9.99	7.07	0.30	2137	
> 10.00	14.14	0.30	1503	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	25756	1.44
0.50-0.99	.70	0.30	10429	
1.00-1.99	1.41	0.30	4171	
2.00-4.99	3.16	0.40	7664	
5.00-9.99	7.07	0.30	1551	
> 10.00	14.14	0.30	1055	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	27783	1.27
0.50-0.99	0.70	0.30	10412	
1.00-1.99	1.41	0.30	3787	
2.00-4.99	3.16	0.40	6227	
5.00-9.99	7.07	0.30	1197	
> 10.00	14.14	0.30	872	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	28848	1.14
0.50-0.99	.70	0.30	10299	
1.00-1.99	1.41	0.30	3629	
2.00-4.99	3.16	0.40	5448	
5.00-9.99	7.07	0.30	999	
> 10.00	14.14	0.30	656	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	30299	1.00
0.50-0.99	0.70	0.30	10070	
1.00-1.99	1.41	0.30	3350	
2.00-4.99	3.16	0.40	4475	
5.00-9.99	7.07	0.30	732	
> 10.00	14.14	0.30	493	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	31044	0.93
0.50-0.99	.70	0.30	10178	
1.00-1.99	1.41	0.30	3123	
2.00-4.99	3.16	0.40	3913	
5.00-9.99	7.07	0.30	613	
> 10.00	14.14	0.30	421	

Aerosol Particle Measurement Record

Description of sample location 3706 Building, Resuspension Test, at .25 m, Date 8/26/94, Time sample started 13:17:27, Temperature 76.9 F, Humidity 37.5 %, Dew Point 49.1 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 2

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	32698	0.72
0.50-0.99	0.70	0.30	20745	
1.00-1.99	1.41	0.30	2287	
2.00-4.99	3.16	0.40	2191	
5.00-9.99	7.07	0.30	198	
> 10.00	14.14	0.30	237	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	18059	4.20
0.50-0.99	.70	0.30	19076	
1.00-1.99	1.41	0.30	6928	
2.00-4.99	3.16	0.40	18895	
5.00-9.99	7.07	0.30	7216	
> 10.00	14.14	0.30	15452	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	18867	2.05
0.50-0.99	0.70	0.30	18845	
1.00-1.99	1.41	0.30	5322	
2.00-4.99	3.16	0.40	11021	
5.00-9.99	7.07	0.30	2652	
> 10.00	14.14	0.30	2887	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	19424	2.01
0.50-0.99	.70	0.30	18847	
1.00-1.99	1.41	0.30	5239	
2.00-4.99	3.16	0.40	10587	
5.00-9.99	7.07	0.30	2683	
> 10.00	14.14	0.30	2792	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	24493	1.41
0.50-0.99	0.70	0.30	19368	
1.00-1.99	1.41	0.30	3900	
2.00-4.99	3.16	0.40	6851	
5.00-9.99	7.07	0.30	1537	
> 10.00	14.14	0.30	1456	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	26593	1.25
0.50-0.99	.70	0.30	19426	
1.00-1.99	1.41	0.30	3391	
2.00-4.99	3.16	0.40	5515	
5.00-9.99	7.07	0.30	1134	
> 10.00	14.14	0.30	1265	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	28569	1.07
0.50-0.99	0.70	0.30	20601	
1.00-1.99	1.41	0.30	3231	
2.00-4.99	3.16	0.40	4638	
5.00-9.99	7.07	0.30	874	
> 10.00	14.14	0.30	857	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	29580	0.99
0.50-0.99	.70	0.30	20622	
1.00-1.99	1.41	0.30	3018	
2.00-4.99	3.16	0.40	4081	
5.00-9.99	7.07	0.30	745	
> 10.00	14.14	0.30	705	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	32213	0.91
0.50-0.99	0.70	0.30	21503	
1.00-1.99	1.41	0.30	2879	
2.00-4.99	3.16	0.40	3681	
5.00-9.99	7.07	0.30	633	
> 10.00	14.14	0.30	606	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	31174	0.90
0.50-0.99	.70	0.30	21770	
1.00-1.99	1.41	0.30	2935	
2.00-4.99	3.16	0.40	3652	
5.00-9.99	7.07	0.30	599	
> 10.00	14.14	0.30	552	

Aerosol Particle Measurement Record

Description of sample location 3706 Building, Resuspension Test, at 2.0 m, Date 8/26/94, Time sample started 12:34:27, Temperature 76.7 F, Humidity 37.9 %, Dew Point 48.9 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 2

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	31919	0.62
0.50-0.99	0.70	0.30	8573	
1.00-1.99	1.41	0.30	1881	
2.00-4.99	3.16	0.40	1473	
5.00-9.99	7.07	0.30	118	
> 10.00	14.14	0.30	83	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	32559	0.62
0.50-0.99	.70	0.30	8587	
1.00-1.99	1.41	0.30	1944	
2.00-4.99	3.16	0.40	1500	
5.00-9.99	7.07	0.30	117	
> 10.00	14.14	0.30	64	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	24250	1.57
0.50-0.99	0.70	0.30	10086	
1.00-1.99	1.41	0.30	4017	
2.00-4.99	3.16	0.40	7715	
5.00-9.99	7.07	0.30	1709	
> 10.00	14.14	0.30	1313	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	17567	2.43
0.50-0.99	.70	0.30	11200	
1.00-1.99	1.41	0.30	6224	
2.00-4.99	3.16	0.40	14828	
5.00-9.99	7.07	0.30	3760	
> 10.00	14.14	0.30	2848	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	17755	2.35
0.50-0.99	0.70	0.30	10663	
1.00-1.99	1.41	0.30	5957	
2.00-4.99	3.16	0.40	13784	
5.00-9.99	7.07	0.30	3578	
> 10.00	14.14	0.30	2548	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	20777	1.98
0.50-0.99	.70	0.30	10112	
1.00-1.99	1.41	0.30	4947	
2.00-4.99	3.16	0.40	10569	
5.00-9.99	7.07	0.30	2648	
> 10.00	14.14	0.30	1915	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	23185	1.68
0.50-0.99	0.70	0.30	9760	
1.00-1.99	1.41	0.30	4263	
2.00-4.99	3.16	0.40	8438	
5.00-9.99	7.07	0.30	2002	
> 10.00	14.14	0.30	1391	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	25685	1.40
0.50-0.99	.70	0.30	9426	
1.00-1.99	1.41	0.30	3540	
2.00-4.99	3.16	0.40	6241	
5.00-9.99	7.07	0.30	1510	
> 10.00	14.14	0.30	1055	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	26932	1.24
0.50-0.99	0.70	0.30	9392	
1.00-1.99	1.41	0.30	3137	
2.00-4.99	3.16	0.40	5126	
5.00-9.99	7.07	0.30	1159	
> 10.00	14.14	0.30	862	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	27530	1.13
0.50-0.99	.70	0.30	9126	
1.00-1.99	1.41	0.30	2835	
2.00-4.99	3.16	0.40	4474	
5.00-9.99	7.07	0.30	967	
> 10.00	14.14	0.30	693	

Aerosol Particle Measurement Record

Description of sample location 3706 Building, Resuspension Test, at .25 m, Date 8/26/94, Time sample started 12:34:27, Temperature 76.7 F, Humidity 37.9 %, Dew Point 48.9 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers between sample area and outside (if applicable) 2

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	31705	0.68
0.50-0.99	0.70	0.30	19465	
1.00-1.99	1.41	0.30	1949	
2.00-4.99	3.16	0.40	1706	
5.00-9.99	7.07	0.30	188	
> 10.00	14.14	0.30	177	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	21580	1.92
0.50-0.99	.70	0.30	18874	
1.00-1.99	1.41	0.30	4981	
2.00-4.99	3.16	0.40	10284	
5.00-9.99	7.07	0.30	2679	
> 10.00	14.14	0.30	2651	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	11743	3.18
0.50-0.99	0.70	0.30	16436	
1.00-1.99	1.41	0.30	7272	
2.00-4.99	3.16	0.40	19200	
5.00-9.99	7.07	0.30	5951	
> 10.00	14.14	0.30	5815	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	18711	2.00
0.50-0.99	.70	0.30	16739	
1.00-1.99	1.41	0.30	4785	
2.00-4.99	3.16	0.40	9886	
5.00-9.99	7.07	0.30	2728	
> 10.00	14.14	0.30	2419	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	21599	1.76
0.50-0.99	0.70	0.30	17365	
1.00-1.99	1.41	0.30	3850	
2.00-4.99	3.16	0.40	7441	
5.00-9.99	7.07	0.30	1960	
> 10.00	14.14	0.30	2318	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	25039	1.34
0.50-0.99	.70	0.30	17866	
1.00-1.99	1.41	0.30	3148	
2.00-4.99	3.16	0.40	5328	
5.00-9.99	7.07	0.30	1348	
> 10.00	14.14	0.30	1409	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	26874	1.18
0.50-0.99	0.70	0.30	18461	
1.00-1.99	1.41	0.30	2804	
2.00-4.99	3.16	0.40	4402	
5.00-9.99	7.07	0.30	1095	
> 10.00	14.14	0.30	1102	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	27767	1.02
0.50-0.99	.70	0.30	18417	
1.00-1.99	1.41	0.30	2482	
2.00-4.99	3.16	0.40	3551	
5.00-9.99	7.07	0.30	799	
> 10.00	14.14	0.30	797	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	31131	0.99
0.50-0.99	0.70	0.30	19808	
1.00-1.99	1.41	0.30	2587	
2.00-4.99	3.16	0.40	3585	
5.00-9.99	7.07	0.30	762	
> 10.00	14.14	0.30	852	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	29601	0.90
0.50-0.99	.70	0.30	19329	
1.00-1.99	1.41	0.30	2365	
2.00-4.99	3.16	0.40	2916	
5.00-9.99	7.07	0.30	631	
> 10.00	14.14	0.30	580	

Data for Fig. 5. Resuspension and Ambient Air Vs. Height,
PUREX,

Table 6. Peak Mean Diameter (μm), Versus Sampling Height,

and

Table 9. Percent of Large Particles in Breathing Zone, PUREX

0.5m	with	0.25m
1.0m	with	0.25m
1.5m	with	0.25m
2.0m	with	0.25m

Aerosol Particle Measurement Record

Description of sample location PUREX P&O Gallery Reuspension 0.5 m,
 Date 9/07/94, Time sample started 10:06:17, Temperature 82.8 F, Humidity 32.7 %,
 Dew Point 50.7 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers
 between sample area and outside (if applicable) 3

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	15753	0.67
0.50-0.99	0.70	0.30	9473	
1.00-1.99	1.41	0.30	1055	
2.00-4.99	3.16	0.40	928	
5.00-9.99	7.07	0.30	88	
> 10.00	14.14	0.30	49	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	13997	1.49
0.50-0.99	.70	0.30	15547	
1.00-1.99	1.41	0.30	5298	
2.00-4.99	3.16	0.40	8968	
5.00-9.99	7.07	0.30	1231	
> 10.00	14.14	0.30	499	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	13678	1.33
0.50-0.99	0.70	0.30	15574	
1.00-1.99	1.41	0.30	4610	
2.00-4.99	3.16	0.40	7088	
5.00-9.99	7.07	0.30	889	
> 10.00	14.14	0.30	343	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	15884	0.63
0.50-0.99	.70	0.30	9094	
1.00-1.99	1.41	0.30	951	
2.00-4.99	3.16	0.40	808	
5.00-9.99	7.07	0.30	55	
> 10.00	14.14	0.30	21	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	15399	0.73
0.50-0.99	0.70	0.30	9210	
1.00-1.99	1.41	0.30	1110	
2.00-4.99	3.16	0.40	1082	
5.00-9.99	7.07	0.30	138	
> 10.00	14.14	0.30	103	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	15704	0.67
0.50-0.99	.70	0.30	9064	
1.00-1.99	1.41	0.30	1026	
2.00-4.99	3.16	0.40	959	
5.00-9.99	7.07	0.30	81	
> 10.00	14.14	0.30	47	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	16039	0.64
0.50-0.99	0.70	0.30	8950	
1.00-1.99	1.41	0.30	907	
2.00-4.99	3.16	0.40	819	
5.00-9.99	7.07	0.30	60	
> 10.00	14.14	0.30	37	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	15688	0.64
0.50-0.99	.70	0.30	8862	
1.00-1.99	1.41	0.30	911	
2.00-4.99	3.16	0.40	840	
5.00-9.99	7.07	0.30	57	
> 10.00	14.14	0.30	31	

Aerosol Particle Measurement Record

Description of sample location PUREX P&O Gallery Reuspension 0.25 m,
 Date 9/07/94, Time sample started 10:06:17, Temperature 82.8 F, Humidity 32.7 %,
 Dew Point 50.7 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers
 between sample area and outside (if applicable) 3

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	15124	0.64
0.50-0.99	0.70	0.30	3558	
1.00-1.99	1.41	0.30	941	
2.00-4.99	3.16	0.40	806	
5.00-9.99	7.07	0.30	50	
> 10.00	14.14	0.30	51	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	12564	5.13
0.50-0.99	.70	0.30	15300	
1.00-1.99	1.41	0.30	13425	
2.00-4.99	3.16	0.40	41556	
5.00-9.99	7.07	0.30	12285	
> 10.00	14.14	0.30	26125	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	15210	1.43
0.50-0.99	0.70	0.30	9871	
1.00-1.99	1.41	0.30	5502	
2.00-4.99	3.16	0.40	8012	
5.00-9.99	7.07	0.30	690	
> 10.00	14.14	0.30	435	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	15211	0.60
0.50-0.99	.70	0.30	3384	
1.00-1.99	1.41	0.30	899	
2.00-4.99	3.16	0.40	694	
5.00-9.99	7.07	0.30	40	
> 10.00	14.14	0.30	17	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	15117	0.79
0.50-0.99	0.70	0.30	4198	
1.00-1.99	1.41	0.30	1245	
2.00-4.99	3.16	0.40	1329	
5.00-9.99	7.07	0.30	82	
> 10.00	14.14	0.30	153	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	14963	0.77
0.50-0.99	.70	0.30	3996	
1.00-1.99	1.41	0.30	1177	
2.00-4.99	3.16	0.40	1240	
5.00-9.99	7.07	0.30	99	
> 10.00	14.14	0.30	130	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	14635	0.62
0.50-0.99	0.70	0.30	3538	
1.00-1.99	1.41	0.30	917	
2.00-4.99	3.16	0.40	707	
5.00-9.99	7.07	0.30	43	
> 10.00	14.14	0.30	36	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	14993	0.64
0.50-0.99	.70	0.30	3609	
1.00-1.99	1.41	0.30	886	
2.00-4.99	3.16	0.40	787	
5.00-9.99	7.07	0.30	50	
> 10.00	14.14	0.30	45	

Aerosol Particle Measurement Record

Description of sample location PUREX P&O Gallery Reuspension 1.0 m,
 Date 9/07/94, Time sample started 10:21:23, Temperature 82.6 F, Humidity 36.3 %,
 Dew Point 55.4 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers
 between sample area and outside (if applicable) 3

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	19462	0.62
0.50-0.99	0.70	0.30	10946	
1.00-1.99	1.41	0.30	1046	
2.00-4.99	3.16	0.40	881	
5.00-9.99	7.07	0.30	60	
> 10.00	14.14	0.30	29	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	19600	0.80
0.50-0.99	.70	0.30	12415	
1.00-1.99	1.41	0.30	1904	
2.00-4.99	3.16	0.40	2237	
5.00-9.99	7.07	0.30	217	
> 10.00	14.14	0.30	115	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	17026	1.22
0.50-0.99	0.70	0.30	19224	
1.00-1.99	1.41	0.30	5704	
2.00-4.99	3.16	0.40	8045	
5.00-9.99	7.07	0.30	753	
> 10.00	14.14	0.30	242	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	20619	0.62
0.50-0.99	.70	0.30	10906	
1.00-1.99	1.41	0.30	1034	
2.00-4.99	3.16	0.40	894	
5.00-9.99	7.07	0.30	63	
> 10.00	14.14	0.30	43	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	20840	0.59
0.50-0.99	0.70	0.30	11098	
1.00-1.99	1.41	0.30	906	
2.00-4.99	3.16	0.40	723	
5.00-9.99	7.07	0.30	58	
> 10.00	14.14	0.30	19	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22077	0.58
0.50-0.99	.70	0.30	11807	
1.00-1.99	1.41	0.30	897	
2.00-4.99	3.16	0.40	717	
5.00-9.99	7.07	0.30	40	
> 10.00	14.14	0.30	18	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	22917	0.57
0.50-0.99	0.70	0.30	11936	
1.00-1.99	1.41	0.30	857	
2.00-4.99	3.16	0.40	687	
5.00-9.99	7.07	0.30	33	
> 10.00	14.14	0.30	10	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	21936	0.66
0.50-0.99	.70	0.30	12853	
1.00-1.99	1.41	0.30	1273	
2.00-4.99	3.16	0.40	1278	
5.00-9.99	7.07	0.30	105	
> 10.00	14.14	0.30	71	

Aerosol Particle Measurement Record

Description of sample location PUREX P&O Gallery Reuspension .25 m,
 Date 9/07/94, Time sample started 10:21:23, Temperature 82.6 F, Humidity 36.3 %,
 Dew Point 55.4 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers
 between sample area and outside (if applicable) 3

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	16738	0.62
0.50-0.99	0.70	0.30	3947	
1.00-1.99	1.41	0.30	982	
2.00-4.99	3.16	0.40	793	
5.00-9.99	7.07	0.30	60	
> 10.00	14.14	0.30	32	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	14951	3.73
0.50-0.99	.70	0.30	18252	
1.00-1.99	1.41	0.30	15647	
2.00-4.99	3.16	0.40	46550	
5.00-9.99	7.07	0.30	13447	
> 10.00	14.14	0.30	11811	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	17653	1.30
0.50-0.99	0.70	0.30	10416	
1.00-1.99	1.41	0.30	5410	
2.00-4.99	3.16	0.40	7576	
5.00-9.99	7.07	0.30	634	
> 10.00	14.14	0.30	339	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	18969	0.65
0.50-0.99	.70	0.30	4659	
1.00-1.99	1.41	0.30	1233	
2.00-4.99	3.16	0.40	1079	
5.00-9.99	7.07	0.30	68	
> 10.00	14.14	0.30	54	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	18952	0.59
0.50-0.99	0.70	0.30	4243	
1.00-1.99	1.41	0.30	975	
2.00-4.99	3.16	0.40	784	
5.00-9.99	7.07	0.30	31	
> 10.00	14.14	0.30	37	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	19498	0.57
0.50-0.99	.70	0.30	4190	
1.00-1.99	1.41	0.30	891	
2.00-4.99	3.16	0.40	701	
5.00-9.99	7.07	0.30	30	
> 10.00	14.14	0.30	26	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	20000	0.58
0.50-0.99	0.70	0.30	4341	
1.00-1.99	1.41	0.30	956	
2.00-4.99	3.16	0.40	812	
5.00-9.99	7.07	0.30	38	
> 10.00	14.14	0.30	32	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	20053	0.64
0.50-0.99	.70	0.30	4720	
1.00-1.99	1.41	0.30	1201	
2.00-4.99	3.16	0.40	1034	
5.00-9.99	7.07	0.30	61	
> 10.00	14.14	0.30	72	

Aerosol Particle Measurement Record

Description of sample location PUREX P&O Gallery Reuspension 1.5 m,
 Date 9/07/94, Time sample started 10:36:30, Temperature 82.2 F, Humidity 37.8 %,
 Dew Point 53.8 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers
 between sample area and outside (if applicable) 3

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	25894	0.56
0.50-0.99	0.70	0.30	13045	
1.00-1.99	1.41	0.30	833	
2.00-4.99	3.16	0.40	669	
5.00-9.99	7.07	0.30	35	
> 10.00	14.14	0.30	22	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	27627	0.53
0.50-0.99	.70	0.30	13297	
1.00-1.99	1.41	0.30	704	
2.00-4.99	3.16	0.40	433	
5.00-9.99	7.07	0.30	23	
> 10.00	14.14	0.30	6	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	26976	0.55
0.50-0.99	0.70	0.30	13219	
1.00-1.99	1.41	0.30	758	
2.00-4.99	3.16	0.40	523	
5.00-9.99	7.07	0.30	31	
> 10.00	14.14	0.30	13	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	27552	0.54
0.50-0.99	.70	0.30	13297	
1.00-1.99	1.41	0.30	694	
2.00-4.99	3.16	0.40	487	
5.00-9.99	7.07	0.30	29	
> 10.00	14.14	0.30	6	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	26467	0.57
0.50-0.99	0.70	0.30	13452	
1.00-1.99	1.41	0.30	873	
2.00-4.99	3.16	0.40	658	
5.00-9.99	7.07	0.30	51	
> 10.00	14.14	0.30	31	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	26981	0.54
0.50-0.99	.70	0.30	13212	
1.00-1.99	1.41	0.30	718	
2.00-4.99	3.16	0.40	475	
5.00-9.99	7.07	0.30	26	
> 10.00	14.14	0.30	5	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	28020	0.53
0.50-0.99	0.70	0.30	13385	
1.00-1.99	1.41	0.30	604	
2.00-4.99	3.16	0.40	425	
5.00-9.99	7.07	0.30	20	
> 10.00	14.14	0.30	4	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	27794	0.53
0.50-0.99	.70	0.30	13390	
1.00-1.99	1.41	0.30	693	
2.00-4.99	3.16	0.40	448	
5.00-9.99	7.07	0.30	20	
> 10.00	14.14	0.30	8	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	27377	0.56
0.50-0.99	0.70	0.30	13599	
1.00-1.99	1.41	0.30	847	
2.00-4.99	3.16	0.40	689	
5.00-9.99	7.07	0.30	46	
> 10.00	14.14	0.30	25	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	27621	0.54
0.50-0.99	.70	0.30	13527	
1.00-1.99	1.41	0.30	652	
2.00-4.99	3.16	0.40	516	
5.00-9.99	7.07	0.30	25	
> 10.00	14.14	0.30	12	

Aerosol Particle Measurement Record

Description of sample location PUREX P&O Gallery Reuspension .25 m,
 Date 9/07/94, Time sample started 10:36:30, Temperature 82.2 F, Humidity 37.8 %,
 Dew Point 53.8 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers
 between sample area and outside (if applicable) 3

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	22059	0.56
0.50-0.99	0.70	0.30	4594	
1.00-1.99	1.41	0.30	917	
2.00-4.99	3.16	0.40	675	
5.00-9.99	7.07	0.30	40	
> 10.00	14.14	0.30	32	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	16628	3.83
0.50-0.99	.70	0.30	30029	
1.00-1.99	1.41	0.30	28174	
2.00-4.99	3.16	0.40	73469	
5.00-9.99	7.07	0.30	19911	
> 10.00	14.14	0.30	19848	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	22555	0.67
0.50-0.99	0.70	0.30	5425	
1.00-1.99	1.41	0.30	1360	
2.00-4.99	3.16	0.40	1380	
5.00-9.99	7.07	0.30	85	
> 10.00	14.14	0.30	96	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	22547	0.61
0.50-0.99	.70	0.30	4840	
1.00-1.99	1.41	0.30	1140	
2.00-4.99	3.16	0.40	942	
5.00-9.99	7.07	0.30	55	
> 10.00	14.14	0.30	88	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	22603	0.61
0.50-0.99	0.70	0.30	5047	
1.00-1.99	1.41	0.30	1174	
2.00-4.99	3.16	0.40	968	
5.00-9.99	7.07	0.30	63	
> 10.00	14.14	0.30	72	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	23050	0.54
0.50-0.99	.70	0.30	4669	
1.00-1.99	1.41	0.30	809	
2.00-4.99	3.16	0.40	608	
5.00-9.99	7.07	0.30	38	
> 10.00	14.14	0.30	32	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	22949	0.55
0.50-0.99	0.70	0.30	4612	
1.00-1.99	1.41	0.30	907	
2.00-4.99	3.16	0.40	664	
5.00-9.99	7.07	0.30	50	
> 10.00	14.14	0.30	33	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	23274	0.66
0.50-0.99	.70	0.30	5220	
1.00-1.99	1.41	0.30	1288	
2.00-4.99	3.16	0.40	1284	
5.00-9.99	7.07	0.30	116	
> 10.00	14.14	0.30	104	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	23043	0.80
0.50-0.99	0.70	0.30	6279	
1.00-1.99	1.41	0.30	2003	
2.00-4.99	3.16	0.40	2294	
5.00-9.99	7.07	0.30	190	
> 10.00	14.14	0.30	183	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	23632	0.51
0.50-0.99	.70	0.30	4509	
1.00-1.99	1.41	0.30	763	
2.00-4.99	3.16	0.40	481	
5.00-9.99	7.07	0.30	24	
> 10.00	14.14	0.30	14	

Aerosol Particle Measurement Record

Description of sample location PUREX P&O Gallery Reuspension 2.0 m,
 Date 9/07/94, Time sample started 10:51:01, Temperature 82.1 F, Humidity 38.8 %,
 Dew Point 54.5 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers
 between sample area and outside (if applicable) 3

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	29961	0.52
0.50-0.99	0.70	0.30	13860	
1.00-1.99	1.41	0.30	591	
2.00-4.99	3.16	0.40	377	
5.00-9.99	7.07	0.30	26	
> 10.00	14.14	0.30	11	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	29735	0.52
0.50-0.99	.70	0.30	13995	
1.00-1.99	1.41	0.30	560	
2.00-4.99	3.16	0.40	392	
5.00-9.99	7.07	0.30	20	
> 10.00	14.14	0.30	3	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	29737	0.55
0.50-0.99	0.70	0.30	14417	
1.00-1.99	1.41	0.30	776	
2.00-4.99	3.16	0.40	608	
5.00-9.99	7.07	0.30	55	
> 10.00	14.14	0.30	16	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	30091	0.52
0.50-0.99	.70	0.30	14155	
1.00-1.99	1.41	0.30	534	
2.00-4.99	3.16	0.40	382	
5.00-9.99	7.07	0.30	26	
> 10.00	14.14	0.30	4	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	30062	0.55
0.50-0.99	0.70	0.30	14426	
1.00-1.99	1.41	0.30	661	
2.00-4.99	3.16	0.40	535	
5.00-9.99	7.07	0.30	61	
> 10.00	14.14	0.30	48	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	32393	0.52
0.50-0.99	.70	0.30	15166	
1.00-1.99	1.41	0.30	556	
2.00-4.99	3.16	0.40	407	
5.00-9.99	7.07	0.30	25	
> 10.00	14.14	0.30	22	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	34302	0.52
0.50-0.99	0.70	0.30	15905	
1.00-1.99	1.41	0.30	581	
2.00-4.99	3.16	0.40	383	
5.00-9.99	7.07	0.30	17	
> 10.00	14.14	0.30	15	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	31411	0.53
0.50-0.99	.70	0.30	15016	
1.00-1.99	1.41	0.30	579	
2.00-4.99	3.16	0.40	363	
5.00-9.99	7.07	0.30	35	
> 10.00	14.14	0.30	22	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	31654	0.52
0.50-0.99	0.70	0.30	15144	
1.00-1.99	1.41	0.30	564	
2.00-4.99	3.16	0.40	381	
5.00-9.99	7.07	0.30	18	
> 10.00	14.14	0.30	18	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	31051	0.56
0.50-0.99	.70	0.30	14732	
1.00-1.99	1.41	0.30	587	
2.00-4.99	3.16	0.40	411	
5.00-9.99	7.07	0.30	55	
> 10.00	14.14	0.30	101	

Aerosol Particle Measurement Record

Description of sample location PUREX P&O Gallery Reuspension .25 m,
 Date 9/07/94, Time sample started 10:51:01, Temperature 82.1 F, Humidity 38.8 %,
 Dew Point 54.5 F, Average Wind Velocity (if applicable) .00 m/s, # of physical barriers
 between sample area and outside (if applicable) 3

Sample #1

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	24415	0.52
0.50-0.99	0.70	0.30	4658	
1.00-1.99	1.41	0.30	770	
2.00-4.99	3.16	0.40	521	
5.00-9.99	7.07	0.30	39	
> 10.00	14.14	0.30	26	

Sample #2

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	13467	4.73
0.50-0.99	.70	0.30	23065	
1.00-1.99	1.41	0.30	25175	
2.00-4.99	3.16	0.40	89556	
5.00-9.99	7.07	0.30	29186	
> 10.00	14.14	0.30	32708	

Sample #3

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	24471	0.73
0.50-0.99	0.70	0.30	6702	
1.00-1.99	1.41	0.30	2064	
2.00-4.99	3.16	0.40	2227	
5.00-9.99	7.07	0.30	135	
> 10.00	14.14	0.30	77	

Sample #4

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	24927	0.51
0.50-0.99	.70	0.30	4502	
1.00-1.99	1.41	0.30	685	
2.00-4.99	3.16	0.40	426	
5.00-9.99	7.07	0.30	44	
> 10.00	14.14	0.30	26	

Sample #5

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	23737	0.76
0.50-0.99	0.70	0.30	6045	
1.00-1.99	1.41	0.30	1734	
2.00-4.99	3.16	0.40	1933	
5.00-9.99	7.07	0.30	164	
> 10.00	14.14	0.30	195	

Sample #6

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	24577	0.61
0.50-0.99	.70	0.30	5127	
1.00-1.99	1.41	0.30	1052	
2.00-4.99	3.16	0.40	1022	
5.00-9.99	7.07	0.30	74	
> 10.00	14.14	0.30	97	

Sample #7

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	25049	0.49
0.50-0.99	0.70	0.30	4495	
1.00-1.99	1.41	0.30	624	
2.00-4.99	3.16	0.40	352	
5.00-9.99	7.07	0.30	10	
> 10.00	14.14	0.30	6	

Sample #8

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	25550	0.49
0.50-0.99	.70	0.30	4521	
1.00-1.99	1.41	0.30	673	
2.00-4.99	3.16	0.40	333	
5.00-9.99	7.07	0.30	13	
> 10.00	14.14	0.30	15	

Sample #9

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	0.38	0.21	25681	0.57
0.50-0.99	0.70	0.30	5062	
1.00-1.99	1.41	0.30	971	
2.00-4.99	3.16	0.40	815	
5.00-9.99	7.07	0.30	67	
> 10.00	14.14	0.30	61	

Sample #10

Bin Range (μm)	Bin Mean Diameter (μm)	Diff. of the log of the Size	Counts	Weighted Mean Diameter
0.30-0.49	.38	0.21	26074	0.49
0.50-0.99	.70	0.30	4539	
1.00-1.99	1.41	0.30	641	
2.00-4.99	3.16	0.40	383	
5.00-9.99	7.07	0.30	18	
> 10.00	14.14	0.30	12	

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