



MICHAEL A. CARDOZO
Corporation Counsel

THE CITY OF NEW YORK
LAW DEPARTMENT
100 CHURCH STREET
NEW YORK, NY 10007

JESSE LEVINE
Assistant Chief WTC Unit
212 341 3713

Re: World Trade Center File Retention

Dear NYC Employee:

These original World Trade Center documents have been collected and scanned by the New York City Law Department. **DO NOT DISPOSE OF THESE DOCUMENTS**: they must be preserved to serve as evidence in the event future WTC-related legal actions are brought against the City.

If you would like to dispose of any of these documents, contact me directly at the New York City Law Department at (212) 341-3713. If I am not available, please contact Carlos Dennis at (212) 788-8696. If appropriate, the Law Department will arrange for the pick up of any documents that you no longer need.

Also, in the event you are planning to leave your current position, please email me at jlevine@law.nyc.gov to inform me of the identity of the new custodian of these documents.

Thank you for your cooperation.

Sincerely,

A handwritten signature in black ink, appearing to read "Jesse Levine".

Jesse Levine, Esq.

Some
Duplicate

copies

596-4544

Sunday September 16: 6 AM Report from HazMat Mobile Lab

- **Results of Air Testing:**

1. Murray/Church = .022 fibers/cc NW corner
 2. Fulton/Church = .034 SW corner
 3. Liberty/Church - replaced w/ B'way / Liberty .0082
 4. Trinity/Cedar - replaced with B'way/Cedar = .033
 5. Church/Dey - danger zone
 6. Park Place/Greenwich - .076
 7. Greenwich/Murray - .031
 8. Murray bet. Church and B'way = .0124
 9. Fulton bet. Church and B'way = .035
 10. B'way and Murray .045
 11. Vesey bet Church and West B'way = .035
- (10 & 11 represent 2 additional sites)

- **Update on HEPA Vacuuming of Financial District:**

Clean-up continued through the night at financial district and Wall Street area. There is a problem vacuuming to the west of B'way, the noise created by the machine interfered with the rescuers activities. A Deputy Inspector from the Police Department halted activity west of Broadway.

EPA contractors will begin clean-up of City Hall Park and Park Row sidewalks at 7AM this morning.

- **Derelict Vehicle Update:**

Thus far, all derelict and towed vehicles have been moved to 2 locations:

1. Pier 76 (between 34 & 35 Streets)
2. Market Slip (under FDR). (Total of 50 Vehicles at both sites)

EPA will HEPA vac dirt and debris at these two sites.

Another site to be established on the south side of the Hot Zone for vehicles that are to be taken out of the hot spot (Washington & Carlyle this not yet confirmed).

Legal Issues have arisen regarding the contractors liability regarding the cleaning of debris ridden vehicles. Mark Hoffer and Charles Sturcken have been consulted and are attempting to work out the details.

- **Freon Update:** EPA took airbag sample from shaft and used HazMat's equipment in the mobile lab to test the sample. They were testing specifically for Freon R22 and the results were zero.

TO: Commissioner Miele 718-835-2709
 CC: First Deputy Commissioner Chapin 718-595-3557
 Deputy Commissioner Avaltroni 718-595-4544
 Deputy Commissioner Greeley 718-595-5342
 Deputy Commissioner Lopez 718-595-6950
 Deputy Commissioner Principe 914-741-0348
 FROM: Paul Bennett *PB*
 RE: WTC Daily Report for 10/09/01
 DATE: Oct.9, 2001 via FAX

Summary of outstanding activities for 10/09/01.

Stray Current Investigation

Update: TA & DEP conducted site visit. TA said that they don't have anything in the area but are willing to test the main (via the fire hydrants) and the service line to the sampling stations for a current. Testing of the sample station service line will require digging to the service. Doug - Who do you use when investigating stray currents?

Salome Freud Drinking Water Quality informed me of elevated levels of copper in water collected from sample stations located on Water Street between Wall St and Fletcher St. Likely cause is a stray DC current in the area. PB contacted ConEd and TA Subways and asked about any DC they may have in the area. ConEd said they don't have any DC in the area, TA will conduct investigation on Monday. TA will contact EOC to make specific arrangements.

FEMA requests meeting regarding permits and the demolition of WTC

Update: Has anyone arranged a meeting with Tranter?
 Robert Tranter, Regional Environmental Officer, FEMA, (646-745-1235, e-mail: robert.tranter@fema.gov) has asked to meet with appropriate Bureau representatives regarding DEP permitting issues and the demolition of the WTC complex. Tranter is looking to meet at Pier 90 on Thursday or Friday of this week. Please have an appropriate person from your Bureau contact Tranter directly. Please let me know of any meeting arranged.

*Knish
 Pbs June Perry
 or yourself
 call FEMA.
 OK -
 any issues w/ this
 that Air Mgr
 have
 10/10/01*

Health and Safety meeting

Environmental, Safety and Health Plan (ES&H Plan)

Two comments were received ^{from DEP} and submitted by Charmaine Richardson. ^{1,6,4}
 The first suggested including reference to the NYC Air Code in Section ~~6.4~~ ^{6.1} Air Quality Hazards.
 The second questioned the source of the Heat Stress table.

Dust Suppression

FDNY was notified by the contractor that it was too dusty to work in the area by 7 WTC. Work was suspended in the area until the dust could be suppressed.

There was an observable increase in the use of water on the pile today. However, even though many fire hydrants have been back into service, they aren't being utilized because of a lack of dust suppression resources available. Contractor resources are being identified.

Tarpping of trucks

Update: Some loads coming out on the trucks and going to Pier 25 were so hot that the tarp was melting as it was placed over the load. These trucks received an exemption to covering their loads for today.

Identification of Out-of-service fire hydrants.

FDNY has done this already.

Traffic Plan

Update: Same map, no plan though. *Received map of traffic routes near the site. Plan to come.... Tomorrow.*

Update: Request for historical background data.

Update: Parameters still not received yet. *[10/4 -Tim Dowd, Bechtel Infrastructure Corp., 212-967-0412 – cell 301-908-2869, (H&S consultant working for DDC) requested historical air monitoring data for the downtown area. He will get back to me on what parameters he is interested in.]*

Quality of water to be / is being pumped from the WTC

NYSDOH Jim Covey and NYSDEC questioned the quality of the water to be / is being pumped out from the basements of the WTC and from the PA tunnel and into the sewers. DEC has indicated that they are willing to take the lead on this issue (plan, protocol and ultimate disposal), but they need NYC to ask for such assistance.

Diana / Al / Doug – How do you want me to handle? Please contact me.

Manpower hours for EMRP on 10/09/01:

Paul Bennett	Pier 92	9:30 AM – 10:30 PM	13 hrs
Frank Vazquez	Command Bus	off	
Robert Kepich	Command Bus	12:00 AM – 12:00 PM	12 hrs
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-end-			

Commissioner WTC Report for 10/3/01

Addendum

- OEM wants to open Park Place from Broadway to Greenwich. They are siting our air monitoring status at Greenwich and Park Place that has had three consecutive days of levels below the 0.001 clearance level (10/1 - 0.004, 10/2 - 0.008, 10/3 - 0.009). Staff visited the area this morning and believes it will be a very long stretch to accomplish this. Truck traffic still moves down Park Place and the outside of buildings are in the process of being cleaned. EPA is also conducting a walk through (unofficially we hear that they do not think this area can be opened and maintained clean) will advise when we hear officially.
- DEC sent to DEP a Executive Order that

Commissioner WTC Report for 10/3/01

- **Stuyvesant High School**

In anticipation of the opening of Stuyvesant High School scheduled for 10/8, we will be conducting a walk through of the exterior walkways and entry points to the building. We will be conducting this walk through with members of the Board of Ed, DOH, EPA and the cleaning contractor. Additionally, our staff will be doing a visual inspection of the interior with the Board of Ed prior to re-occupancy.

- **High School for Economics & Finance**
90 & 100 Trinity Place
IS 89 201 Warren Street
PS 234 292 Greenwich Street

We will follow the same strategy implemented for Stuyvesant High School for these schools scheduled to be re-opened on 10/8.

- As per OEM's request, air sampling will commence 10/4 in the areas adjacent to each of the previously mentioned schools in preparation of re-occupancy.

Battery Park City - EPA continues to clean up news that we ~~are~~

Battery Park City

South Battery Park areas are still in the cleanup stage. These areas include various streets and sidewalks, parking lots, ball fields and the promenade.

Completed inspections of roof tops of buildings. Cleanup work will entail extensive rigging and use of vac trucks. Discussed plan of action and whether this is something we want to undertake with EPA. Timeframe to complete will be extensive. EPA has passed on this issue to the Army Corp of Engineers. Does not look to positive.

375 South end ave Lefrak building

Courtyard cleanup complete. Work on façade of gateway plaza tower(600) continues into Tuesday morning. Residents should not be allowed in without protection until façade debris is removed from gateway tower. Lefrak was also notified that garage façade and inside areas must be cleaned otherwise they will spread contamination in the immediate area.

*Battery Park City misinformed their tenants by posting signs in Gateway Plaza complex informing residents that all questions concerning health and reoccupancy should be directed to Paul Bennett at Pier 92. Per the memo dated 10/2 from OEM, all questions concerning environmental issues will be directed to the EPA which is now the lead agency on these issues.

*OEM & DEP to meet at 6:45am on 10/2 to give OEM representative a tour of Gateway Plaza. Owners of Gateway Plaza no longer want to maintain their agreement in having tenants enter the complex through the promenade via SouthEnd Ave. and Albany Street. This access way was cleaned and cleared for the public access to the Gateway Plaza. On 10/2, Battery Park City owners have cordoned off the promenade from entry to their tenants according to DERTA and DEP OEM observation. In addition, they have been giving access through Liberty and South End Ave which has not been cleaned and is at ground zero. DEP will identify the issues to OEM and maintain it's position in permitting public entry only through the areas that have been cleaned and cleared. In addition, OEM will be advised that consideration of moving the decontamination wash station and checkpoint at South End Ave and Albany is inadvisable. Such a move will open Battery Park City South to recontamination with asbestos containing debris. OEM will be advised of the 10/2 memo issued from their office now identifying the EPA as the lead agency on these issues.

4 Financial Center

Inspection of building revealed contamination of lobby areas, restaurant and several bars. Some windows blown out on façade facing south. Will put outside areas on list for cleanup as priority. Building owner responsible for all inside areas, façade and roof top. Building management has all ready secured perimeter of building and has begun cleanup work.

Greenwich to Bdway between chambers and Murray

Cleanup work was completed on 9/26/01 at 0800hours in the area from Greenwich to Broadway, between Chambers and Murray. Advised that Construction company is responsible to insure no emissions from vehicles occur. At minimum, all loads must be substantially wet down, covered with tarps, and vehicles washed. Air monitoring was conducted in this area to maintain clearance levels. Four air samples were taken in the proposed area each day. All four samples passed clearance level. These results were as follows:

10/2/01

Park Place and church	.007 fibers/cc
Park Place and Greenwich	.008 fibers/cc
Murray and Church	.007 fibers/cc
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DOH

Received draft vehicle advisory as promised from DOH. Made comments and returned.

First Response

First Response personnel Fawzy and Haas made entry with FDNY and ESU into a new un chartered area in the southwest corridor below the trade center. DEP provided real time monitoring for vital support gases in the environment and took air and water samples for further analysis. Investigation of the stability of the slurry wall was performed by engineers. Dep took samples of water intrusion to determine if it is possibly from the river. Additionally, air and water samples were taken to check for R22 refrigerant. An attempt was made by rafts to try to get through a flooded area to the freon tanks to assess there condition but was unsuccessful because of debri in the pathway.

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Future Progress

DERTA has surveyed other areas inside the perimeter in an effort to target potential sites to be opened. DERTA does not believe that it will be possible to clear any other areas because of the close proximity to ground zero. Major work at ground zero would have to be completed before we could reassess the feasibility of opening another area.

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Higher levels were detected closer to ground zero probably due to increased work activity on site. TEM analysis will be performed on samples with levels well above clearance to ensure perimeter is intact.

10/2/01**Fulton / Church = 0.019****Warren / North End Ave = 0.009****West Street & Warren = 0.009****NW Gateway Plaza at Park Area = 0.008****South End Ave & Albany = 0.008****West & Albany = 0.009****Rector Place by park = 0.008****3rd Place/West End/Waterside = 0.008****West end of West Thames = 0.009****Park Place & River Terrace = 0.007****River Terrace & Chambers = 0.007****River Terrace & Warren = 0.007****North End Ave & Park Place West = 0.009****Vesey & River Terrace = 0.009****Trinity Place & Thames = 0.016; on 10/01=0.015; on 9/31/01=.076**

North & South Carl

①

Commissioner WTC Update for October 3, 2001**Greenwich to Bdway between chambers and Murray****10/3/01 Air Monitoring results**

Park Place and church	.009 fibers/cc
Park Place and Greenwich	.009 fibers/cc
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North End Ave & Park Place West	0.009
Vesey & River Terrace	0.009
Trinity Place & Thames	0.020

D.C., Robert Avaltroni

:08

Transmit Confirmation Report

No. : 002
Receiver : 912122599817
Transmitter : D.C. Robert Avaltroni
Date : Oct 04 01 10:08
Time : 02'22
Mode : Norm
Pages : 05
Result : OK

Commissioner WTC Report for 10/3/01

Addendum

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- DEC sent DEP an Executive Order that relaxes many hazardous materials transportation and storage rules. They would like DEP to review and okay. F/D/C Chapin was given a copy of the order.
- Some buildings downtown are in the process of cleaning their facades and in that process are spraying water about. On the morning of 10/4, HazMat staff went to these buildings to make sure that they are containing the water residue. Air staff has been deployed to assist in this matter. This is obviously a predictable occurrence that we are attempting to remediate.

Commissioner WTC Report for 10/3/01

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New York State Department of Environmental Conservation
Division of Legal Affairs, Room 402
625 Broadway, Albany, New York 12233-1500
Phone: (518) 402-9185 • FAX: (518) 402-9018
Website: www.dec.state.ny.us



FAX TRANSMITTAL

TO: Mike Gilsenan - NYCDEP
FROM: Margaret Sheen
DATE: 10/3/01

MESSAGE: Attached is the Executive Order re: transportation & handling of WTC debris. Thanks for your attention on this. Please let me know if NYCDEP approves.

PLEASE CONTACT LINDA WILKINSON AT (518) 402-9184 IF YOU HAVE ANY PROBLEMS WITH THIS TRANSMITTAL.

CONFIDENTIALITY NOTE:

This facsimile message is intended only for the use of the individual or entity named above and may be legally privileged and confidential information. If you are not the intended recipient, any dissemination, distribution or copying of this facsimile is strictly prohibited.

No.

EXECUTIVE ORDER

SUSPENSION OF REGULATIONS REGARDING TRANSPORTATION AND HANDLING OF CERTAIN SOLID WASTE RESULTING FROM THE WORLD TRADE CENTER DISASTER

WHEREAS, on September 11, 2001, I issued Executive Order Number 113 declaring a disaster emergency in the State of New York;

NOW, THEREFORE, I, GEORGE E. PATAKI, Governor of the State of New York, by virtue of the authority vested in me by the Constitution and Laws of the State of New York, do hereby continue Executive Order No. 113, dated September 11, 2001, except that such Executive Order is amended to read as follows:

FURTHER, pursuant to the authority vested in me by Section 29-a of Article 2-B of the Executive Law to temporarily suspend specific provisions of any statute, local law, ordinance, orders, rules or regulations, or parts thereof, of any agency during a State disaster emergency, if compliance with such provisions would prevent, hinder or delay action necessary to cope with the disaster, I hereby temporarily suspend, for the period from the date of this Executive Order until further notice, the following regulations:

6 NYCRR part 364 to the extent that this part requires persons working under the supervision of government officials of the State and/or City of New York in connection with the disaster emergency to obtain permits for the collection, transportation and delivery of regulated waste to the staging areas or disposal locations owned or operated by the City of New York;

6 NYCRR parts 370 through 374 and part 376 to the extent that these parts require persons working under the supervision of government officials of the State and/or City of New York in connection with the disaster emergency to comply with hazardous waste management standards at the disaster site, during the transportation of such waste from the disaster site to staging areas or disposal locations owned or operated by the City of New York, and in connection with the storage of such waste at these staging areas or disposal locations.

"temporary"

G I V E N under my hand and

the

Privy Seal of the State

in the City of Albany

this day of in the year

two thousand.

TO: Commissioner Miele 718-835-2709
 CC: First Deputy Commissioner Chapin 718-595-3557
 Deputy Commissioner Avaltroni 718-595-4544
 Deputy Commissioner Greeley 718-595-5342
 Deputy Commissioner Lopez 718-595-
 Deputy Commissioner Principe 914-741-0348
 FROM: Paul Bennett PB
 RE: WTC Daily Report for 10/03/01
 DATE: Oct.3, 2001 via FAX

Summary of outstanding activities for 10/03/01.

Gateway residents calling

It turns out that my name appears on a Battery Park City web site bulletin board:
<http://bpc.mobile123.com/community/noncgi/Forum24/HTML/000234.html>

I've only received a few calls today.

Health and Safety meeting

Emergency operations within IS 89 to close on 10/14/01. The new location has yet to be identified.

FDNY requested any report that has been made by HazMat in conjunction with K. Hanna & W. Wong's recent site visit to the B5 / B6 levels. - D/C Avaltroni: *Could you please arrange to have a copy of any report e-mailed to me at dep@oem.nyc.gov.*

OEM has asked for the location and type of any sampling that is being done in conjunction with the WTC disaster to be provided to them on a daily basis. - D/C Avaltron & D/C Principe: *Could you please arrange to have a copy of this information e-mailed to me on a daily basis to dep@oem.nyc.gov.*

+

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-end-

Commissioner WTC Update for 10/2/01

Battery Park City – Lefrak's Gateway Plaza Complex

We continue to provide clean up instructions to contractors and management of Lefrak facility. Mr. LeFrak continues to make overtures to OEM and PD with respect to the opening of South End Avenue from Albany Street North. At this time, a DeCon facility still exists at Albany Street prohibiting area to be opened for public access. Unfortunately, the proximity to ground zero makes it very difficult to maintain the appropriate air clearance levels for public access.

We will continue to monitor the situation and advise OEM as needed.

Greenwich to Bdway between chambers and Murray

Cleanup work was completed on 9/26/01 at 0800hours in the area from Greenwich to Broadway, between Chambers and Murray. Advised that Construction company is responsible to insure no emissions from vehicles occur. At minimum, all loads must be substantially wet down, covered with tarps, and vehicles washed. Air monitoring was conducted in this area to maintain clearance levels. Four air samples were taken in the proposed area each day. All four samples passed clearance level. These results were as follows:

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It is our understanding that reoccupancy for building (Merrill Lynch) scheduled for 10/22.

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Hazmat advised that the best approach for residents entering Gateway Plaza will be by walking west on Albany Street to the promenade and then North on the promenade to Gateway Plaza.

Hazmat met with Bovis who have now diverted all truck traffic from South End Ave, North of Albany to West Street

Hazmat took wipe samples of transformers (buried in rubble) from 7 World Trade Center. Samples to be analyzed today.

EPA is vacuuming parking lot bordering North side of Battery Park City which they will use as a staging Area.

Battery Park City representatives were advised to replace sand from northern playground. BPC representatives asked that this not be done until Monday – EPA contractors will do the job.

Paul Bennet requested and was supplied with TEM results from September 27.

2PM Pier 92 at Public officials
54th st

6PM Pace University ? (Charlie)

Wai Wai

Results of Air Testing:

September 28, 2001

Battery Park City inquiry (4 WFC Merrill Lynch)

Deputy Commissioner Avaltroni received a call from Tony Woo concerning EPA's setting up a DeCon Operation in very close proximity to 4 World Financial Center (Merrill Lynch). They asked if the DeCon Operation could be relocated one block north on West Street which would be away from the Merrill Lynch building. In our conversation with EPA they said that OEM and DOH had approved the location for De Con at Vesey and West Street.

We have asked Paul Bennett to inquire if we have an alternate site that could be used by EPA in this effort.

We are told that Merrill Lynch has lights and power at 4 WFC and are conducting clean-up activities intending on bringing in some personnel on Monday 10/1 with an eye toward occupying on 10/8. We are reviewing the location to deem how we can provide assistance and perform any necessary testing prior to occupancy.

FDC Chapin has been advised of our efforts.

F: 4wfc

D.C. Robert Avaltroni

Sep 28 01 16:56

Transmit Confirmation Report

No. : 002
Receiver : DEF COMMAND CENT
Transmitter : D.C. Robert Avaltroni
Date : Sep 28 01 16:56
Time : 00:35
Mode : Normal
Pages : 01
Result : OK

For 9/29 report
a.m.

September 28, 2001

Gateway Plaza

On Friday, September 28, 2001 (approximately 5:00 p.m.) the Bureau of Environmental Compliance received a call from Katherine Freed's office regarding residents not being allowed to get into 345, 355, 365, 375 and 385 South End Avenue (Gateway Plaza) to retrieve their valuables, etc.. At approximately the same time, Mr. Lefrak's office called to say that approximately 100 irate residents were assembled in the area demanding to get back into their apartments (again to get clothes, passports, etc.).

Environmental Compliance called Department of Health (DOH) and spoke to Jessica Leighton asking for her assistance in resolving this issue. She explained that from DOH's perspective, residents could be allowed to enter their apartments because it was a short-term exposure risk. She advised that poly be put down to allow for a temporary walkway for the residents. Also, she advised that residents should wear a dust mask and when the residents were in the apartment to disturb dusty areas as little as possible. Remove shoes before entering the apartment and clean the clothes they were wearing as soon as possible. These instructions were passed on to Mr. Lefrak. He asked assistance in getting dust masks and I told him we would try. Paul Bennett was advised of same. Moustafa Fawzy was advised of same and Moustafa also informed me that his unit had no dust masks. First Deputy Commissioner Chapin was also advised of the solution we were able to obtain.

F: Lefrak

Commissioner WTC Update for 9/28-29

Battery Park City

South Battery Park areas are still in the cleanup stage. These areas include various streets and sidewalks, parking lots, ball fields and the promenade. Scheduled to begin early morning on 9/29/01 on list provided by Battery Park City.

North Battery Park City work is scheduled for Monday to begin cleaning the playground area. This includes removal of sand from a large area. The work was delayed at the request of the Battery Park Conservancy so that they could have new sand to replace the sand we remove. Playground area was still not secured and we continue to recommend that it be cleaned up immediately. Currently, it is scheduled to begin on Monday night at there insistence.

Cleanup also continues on the north cove area near the marina.

Completed inspections of roof tops of buildings. Cleanup work will entail extensive rigging and use of vac trucks. Discussed plan of action and whether this is something we want to undertake with EPA. Timeframe to complete will be extensive. Still waiting for EPA decision.

375 South end ave Lefrak building

Courtyard cleanup complete. Work on façade of gateway plaza tower(600) continues into Saturday. Residents should not be allowed in without protection until façade debri is removed from gateway tower. Lefrak was also notified that garage façade and inside areas must be cleaned otherwise they will spread contamination in the immediate area.. DOH allowed residents to obtain items from there apartments last night as long as they wore respiratory protection and took special precautions. Air monitoring results for courtyard area passed clearance. However, areas on south end ave north of Albany st did not pass. Therefore residents of 375 south end ave and other buildings in the complex **can only enter** through the rear courtyard via the promenade.

4 Financial Center

Inspection of building revealed contamination of lobby areas, resturant and several bars. Some windows blown out on façade facing south. Will put outside areas on list for cleanup as priority. Building owner responsible for inside all inside areas façade and roof top.

addendum
gave
Common
over
phone

ADDENDUM

COMMISSIONER'S WTC UPDATE FOR 9/30/01

- DOH has put a vehicle advisory on its website. It is included in its section on Frequently Asked Questions related to air quality following the WTC disaster.
- Freshkills Landfill – EPA has been doing air monitoring for asbestos since September 18/19. September 18/19 seems a little spotty; however, since September 20, they have been sampling twice a day. Their results are shared with OSHA, NIOSH, and State and City DOH.

Frequently Asked Questions Related to Air Quality Following the World Trade Center Disaster

I live and/or work downtown. Do I need to be concerned about the air I'm breathing?

Numerous federal, state and local agencies (including the U.S. Environmental Protection Agency, the New York State Departments of Environmental Conservation and Health and the New York City Departments of Environmental Protection and Health) have been working together to monitor air quality within NYC and around the disaster area since 9/11/01 and will continue throughout the period that the work area is being cleaned. Additional monitors are being set up to obtain further information.

Following the collapse of the World Trade Center towers, significant quantities of smoke and dust were released into the air. The plume of smoke contained dust, ash, soot and other burning materials present at the site. Other hazardous materials released into the air include materials such as concrete, gypsum, plastics and fiberglass dusts as well as soot that were released during the explosion and collapse of the towers. From a health perspective, the substances of concern include asbestos and fine airborne particles. Therefore, air tests, to date, have focused on assessing levels of these substances.

Testing since 9/11/01 has revealed that, in general, levels of asbestos and fine airborne particles have been low. Until the WTC area has been cleaned up, air quality will need to be monitored.

What are the most immediate health concerns?

Irritating dusts and gases can worsen medical conditions such as asthma, chronic bronchitis, emphysema, other chronic lung conditions and heart disease. Airborne irritants might also trigger an asthma attack in people who may be susceptible, but who have not had an asthma attack before. The most important concern is however, exposure to asbestos.

What is asbestos and what are its potential health effects?

Asbestos is a naturally-occurring mineral fiber that is resistant to heat. Asbestos has been used in a wide range of manufactured products including building materials such as fireproofing. Asbestos was used in the

construction of parts of the World Trade Center buildings. Asbestos is present in some of the debris at the site and in areas very close to the site.

In workplaces where levels of asbestos exposure are high and persist for many years, health concerns include lung diseases such as asbestosis and cancer. However, when exposures are low and of short duration, the risk of developing an asbestos-related illness such as asbestosis or cancer is extremely low.

What levels of asbestos have been found in the area and how do they compare to health-based standards?

The U.S. and NYC standard for asbestos in community and residential buildings is 0.01 fibers/cubic centimeter (f/cc) in indoor air. For workers, the U.S. Occupational Safety and Health Administration's (OSHA) standard is 0.1 fibers/cc in air.

Sampling for asbestos fibers at the disaster site began on September 11. The EPA is currently sampling at fifteen monitoring locations near the site and in the nearby community, and additional testing is being conducted at other locations by city and state agencies. Results indicate that, as expected, asbestos is present in some of the debris at the site and in areas very close to the site. As of September 21, 2001, most air sampling results near the World Trade Center were below the standards for asbestos in indoor air.

As testing continues, there may be the possibility of occasional short-term increases in levels of asbestos in the air above the residential standard of 0.01 fibers per cubic centimeter of air. Short-term exposures to relatively low levels should not pose a health risk to individuals.

My home and / or office is very dusty. What should I do to clean-up?

For people returning to homes or workplaces refer to the NYCDOH's Advisory Factsheet "Recommendations for People Re-Occupying Commercial Buildings and Residents Re-Entering Their Homes". [posted on their website: www.nyc.gov/health?]

NYC Health Department's clean-up recommendations include:

- All cleaning activities should avoid stirring up the dust and making it airborne.
- Clean with a wet mop or wet rag. Do not sweep with a broom.

- Use a HEPA vacuum, HEPA bags or dust allergen bags with your regular vacuum.
- Keep windows closed when the air outdoors is dusty or smoky.
- Remove shoes before entering your house especially if you've walked through dust or debris.
- Dusty clothing should be bagged and washed separately.
- Clean air-conditioner filter before turning it on.

Is it necessary to have my home or office tested for asbestos?

First, homes or offices should be cleaned of dust and debris by following the recommendations in the NYC DOH's Advisory Factsheet mentioned above. After cleaning, if a home owner or office building manager wants to have an indoor space tested, the environmental services section of the Yellow Pages can be a resource for certified environmental consultants. Consultants should be asked if they are certified to conduct asbestos testing and whether they do indoor air quality tests.

What are fine airborne particles (Respirable Particulate Matter)(PM) in the air?

The explosion at the World Trade Center released fine airborne particles (also called "respirable particulate matter") into the air. Fine particulate matter comes mostly from combustion such as fires, exhaust from cars, trucks, buses and other vehicles, power plants, boilers and other operations that involve the burning of fuel. Particulate matter ranges in size from very small to larger particles. The most commonly measured sizes are PM_{2.5} and PM₁₀. PM_{2.5} refers to particles that are 2.5 microns or less in diameter. These particles are extremely small and therefore more likely to be inhaled deeper into the lungs. PM₁₀ refers to larger particles that are 10 microns or less in diameter, and because of their larger size, do not travel as far into the lungs. Some particulate matter continues to be released from the World Trade Center site.

What are the health risks from fine airborne particles (Particulate Matter)

Increased levels of fine airborne particles can cause eye, nose, throat and lung irritation, which can trigger coughing and sneezing. Such exposures may aggravate symptoms for persons with asthma or other underlying respiratory conditions. Symptoms should diminish once exposure ceases.

Are there air quality standards for Fine Airborne Particles in outdoor air?

Yes. In 1997, the United States Environmental Protection Agency (EPA) recommended National Ambient Air Quality Standards for PM_{2.5}. National Ambient Air Standards are established to be protective of public health. The short-term standard (24-hour or daily average) for PM_{2.5} is 65 micrograms per cubic meter (ug/m³). Generally, levels below the standard are considered to have a low risk of adverse health effects. The long-term standard (annual average) is 15 ug/m³. The short-term standard (24-hour or daily average) for PM₁₀ is 150 ug/m³ and the long-term standard (annual average) is 50 ug/m³.

Are you monitoring for PM_{2.5}?

Yes. The New York State Department of Environmental Conservation (NYS DEC) has had continuous (real-time) air particulate monitors (PM_{2.5}) collecting samples at eleven sites in New York City. These routine monitors are two on Staten Island, three in Manhattan, one in Brooklyn, three in Queens and two in the Bronx. The data from these monitors are evaluated daily. The Environmental Protection Agency is setting up additional monitors to collect particulate data (PM_{2.5} and PM₁₀) in the community near the site.

What are the results of the PM_{2.5} monitoring and how do they compare to the levels measured in air before September 11th?**Routine DEC air monitors:**

Beginning September 11th at 1:00 pm, the daily average standard of 65 ug/m³ for PM_{2.5} has not been exceeded at any of the routine DEC monitoring locations. On most days since September 11, PM_{2.5} levels at each of the monitoring sites have been similar to those measured earlier in September.

How do the monitoring data for PM_{2.5} compare to the standards?**Routine DEC monitoring:**

As of September 26, the highest daily average level of PM_{2.5} was measured at Public School 64 on September 13th. This school is at East 6th Street and Avenue B and is the nearest routine monitoring site to the World Trade Center. The highest daily average at that location was 42.1 ug/m³, which does not exceed the EPA's standard of 65 ug/m³. Daily averages of PM_{2.5} at all the other routine sites were below 35 ug/m³.

As the name implies, the annual average standard is based on a year of measurements and, therefore, it is not appropriate to use this standard in evaluating the data collected since the disaster. However, because the data from all eleven sites are consistent with historic data there is no reason to expect this event will elevate the annual average very much.

Should I be concerned about my car if it was parked in the disaster zone?

If your car was parked downtown during the blast on 9/11/2001 it is possible it may have sustained some structural damage and could be very dusty, both inside and outside. Once activity is no longer restricted in the disaster zone, it will be safe to remove your car from the area. If your car sustained structural damage from the blast, have your car towed from the area. Otherwise, you can drive your car out of the area. If you would like to take precautions to minimize your exposure to dust, recommended actions include: Wear a dust mask while driving your car to a place for cleaning. Wash the exterior of your car, use a HEPA vacuum to clean the inside, and have an auto mechanic inspect the heater and air conditioning system prior to using these systems.

Should I be concerned about fiberglass in air due to the World Trade Center disaster?

Fiberglass is the trade name for a manmade mineral fiber that also may be called fibrous glass or glass wool. Fiberglass can be found in many different consumer products. In the past it was used for home furnace filters and insulation. Today it is used to insulate pipes and appliances, for sound control in aircraft and automobiles, and in curtains, roofing materials and reinforced plastics.

Fiberglass was most likely used in the construction of the World Trade Center. It has been detected in run-off from the disaster site, suggesting it may have been released during the buildings' collapse. However, air samples taken in and around the World Trade Center site can detect fiberglass if it is present. Extensive air monitoring to date has indicated that fiber concentration in air (including asbestos, fiberglass and cellulose) are low.

What health effects may be associated with short-term exposures to fiberglass particles in air?

Occupational exposure to fiberglass fibers may cause skin irritation and itching because it can get into the skin. It may also cause upper respiratory tract irritation and may aggravate asthma or bronchitis. These are temporary conditions and are unlikely to occur for people in the community given the low concentrations of fibers in the air in general around the WTC disaster area.



New York City Department of Health Response to the World Trade Center Disaster

Public Health Advisory Concerning Air Quality in the Affected Area of the World Trade Center Disaster

The NYC Department of Health (DOH), in collaboration with the City, State, and Federal agencies, is closely monitoring and analyzing air quality data in the wake of the World Trade Center disaster. Following the collapse of the Twin Towers, significant quantities of smoke and dust have been released into the air. The plume of smoke contained dust, ash, soot, and other burning materials present at the site.

In general, dusts can cause respiratory symptoms and eye and throat irritation. Because dust will continue to remain in the air during the ensuing clean-up efforts following the World Trade Center disaster, residents in the vicinity of the World Trade Center are encouraged to take precautions when they return to their homes.

What are the Recommendations for Residents Living in Lower Manhattan?

All residents in the immediate vicinity of the World Trade Center - particularly those who live the area bounded by Warren Street to the North, Broadway to the East, the Hudson River to the West, and Exchange and Thames Streets to the South - should take the following precautions when they return to their homes:

- Avoid unnecessary outdoor strenuous activity;
- Avoid sweeping or other outdoor maintenance;
- Keep dust from entering the home (e.g., remove shoes before entering the home);
- Keep windows closed;
- Set the air conditioner to recirculate air (closed vents), and clean or change the filter frequently;

What should I do if I experience respiratory symptoms?

Dust and other particulate matter have the greatest impact on persons with underlying respiratory conditions. Such individuals may experience chest tightness, wheezing, and shortness of breath. Anyone who has difficulty breathing should consult their physicians, especially those with underlying respiratory conditions. People with asthma may need to increase their usual medical treatment with more frequent use of bronchodilators, and should consult their physicians if necessary.

If I experience any eye irritation what should I do?

Ocular saline solutions or tap water may be used to rinse eyes irritated by dust. All persons should avoid wearing contact lenses while in the affected area.

What are the health effects of asbestos?

Destruction of the World Trade Center buildings released large amounts of dust and ash, some of which

contained trace amounts of asbestos. Based on the asbestos test results received thus far, the general public's risk for any short or long term adverse health affects are very low. Residents who live near the affected area are not at risk of developing asbestos-related illness following the collapse of the World Trade Center buildings.

In general, asbestos-related lung disease general results only from intense asbestos exposure experienced over a period of many years, primarily as a consequence of occupational exposures. The risk of developing an asbestos-related illness following an exposure of short duration is very low.

What measures are being taken to protect the rescue workers?

Rescue workers have been equipped with half-face masks, goggles, and protective clothing to reduce their exposure to dust and other particulate matter while working in the blast zone.

How can I clean up dusts in or near my home or office?

The best way to remove dust is to use a wet rag or wet mop. Sweeping with a dry broom is not recommended because it can make dust airborne again. Dirty rags should be put in plastic bags while they are still wet and bags should be sealed and discarded (cloth rags can be washed, see instructions below). Rags should not be allowed to dry out before bagging and disposal or washing. Because the dust particles are so small, standard vacuuming is not an efficient way to remove the dust. High efficiency vacuums, which are now widely available in stores, should be used to remove dust. Carpets and upholstery can be shampooed, then vacuumed.

Persons should shower to rinse off any dust from hair and skin. Dusty clothes should be washed separately from other clothing. Pets can be washed with running water from a hose or faucet; their paws should be wiped to avoid tracking dust inside the home. To clean plants, rinse leaves with water. Throw away any food that may have been contaminated with dust. Food in cans, jars or containers with tight-fitting lids do not need to be discarded. However, if there is dust present on the exterior of vacuum-sealed food containers, just wash the can or jar with water and wipe it clean. **If in doubt, throw it out.**

Air purifiers may help reduce indoor dust levels. High efficiency air purifiers are superior to other models in filtering the smallest particles. Air purifiers are only useful for removing dust from the air. They will not remove dust already deposited on floors, shelves, upholstery or rugs. Keep windows closed when using an air purifier.

Do pregnant women and young children need to take additional precautions?

No. Pregnant women and young children do not need to take additional precautions.

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New York City Department of Health Response to the World Trade Center Disaster

Recommendations for Motorists in the Area Affected by the World Trade Center Disaster.

This Useful Information was Provided to the New York City Department of Health by the American Automobile Association

Motorists living near the World Trade Center disaster site will face some challenges getting their cars going after being subjected to the extreme levels of dust, dirt and soot in the area. The following tips are suggested:

- Before starting the vehicle try to clean it as thoroughly as possible. Using a hose or repeated uses of a bucket, douse the vehicle with water to remove as much standing dirt as possible. Do not use a rag, brush or any scrubbing action. These will grind the abrasive dirt into the paint, ruining it. Only the physical action of the moving water should be used to remove heavy dirt. Then use very soapy water to wash the car. When clean, swirling patterns may be noticed in the finish if the vehicle was subjected to very heavy exposure. A professional compound job available at most auto shops should restore the luster.
- Inspect the vehicle's interior for heavy dust and dirt. If it was badly exposed, before starting the vehicle, vacuum the interior thoroughly, paying extra attention to the dashboard and vents, particularly if the vehicle is a '98 or newer model. New cars have lots of computer and electronic devices for controlling various functions located behind the dash that could be damaged by heavy dust. (For this reason owners of newer vehicles should not smoke in their cars.)
- Inspect the engine compartment under the hood of the vehicle. If it is very dusty, vacuum this area as well, paying close attention to the air intake, which can usually be identified as a bellows type of hose. If possible, disconnect the hose and vacuum it.
- If the vehicle received extremely heavy exposure, after vacuuming you should change the air filter taking care not to dislodge any remaining dirt so that the engine might be contaminated. Inspect hoses, belts and pulleys for dirt and try to clean them as much as possible.
- Check the oil and coolant level before starting the engine. Also make sure the battery's terminals are clean. Dirty terminals create extra resistance, putting more strain on the battery, which could be low since the vehicle has not run for some time.
- Check tire pressure and add air if necessary, according to the vehicle manufacturer's specifications.
- When starting the vehicle, do not race the engine. Let it idle about five minutes. Observe the

tailpipe to see if any strange looking vapors or material spew out. The engine may have ingested some dirt that will be discharged when first started. If strange noises are heard or smoke seen, shut the vehicle off and call a professional mechanic to inspect it.

- Drive the vehicle slowly at first to make sure it's operating correctly. If so, take the vehicle on a highway so the force of the air can help flush dust and dirt from under the hood and other areas. Only then should the ventilation system be used, first in the recirculation mode to prevent underhood dust from entering the passenger compartment. After five or ten minutes, switch the ventilation system to bring in outside air.
- As soon as possible, change the oil and oil filter. Any dust or dirt that may have entered the engine will settle in the oil, which must be removed to prevent internal engine damage.

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a-30-01

Commissioners WTC Update for 9/30/01**Battery Park City**

The playground area in North Battery Park City is still scheduled for Monday at 7:00am to be cleaned. This will include the removal of sand from the sandboxes. This cleanup has been delayed to this point at the request of Battery Park Conservancy. Playground area is still not secured and DEP has maintained the recommendation that it should have been cleaned up immediately. The EPA has confirmed tonight that the park will begin being cleaned at 7am on 10/1/01 regardless of the weather conditions.

Issues at Gateway Plaza:

The facade of the 600 building (375 South End Ave), the garage area and inner court yard are still being cleaned. It is the responsibility of the building owners to assure the integrity of the apartments inside the buildings. They are aware of the EPA requirements for sampling and clearing apartments.

*The checkpoint and wash station located at the SW corner of South End Ave. and Albany Street has not been moved. Consideration for it's relocation to the NE corner of South End Ave. and Albany Street was made in an effort to ease the access for tenants into the complex. However, it has been determined that easy access is available at the existing location. The PD is fully aware of the sensitivity of this matter and understands the need for tenants to easily access their apartments without imparting undue burdens on security restrictions.

4 Financial Center

No change from 9/29/01 update. Inspection of the building on 9/28 revealed contamination of lobby areas, restaurant and several bar areas. Some windows were blown out on the facade facing south. No cleanup work observed inside building. Cleanup is the responsibility of the building owner, including inside areas, facade and rooftop. We will put outside area on list for cleanup as a priority to give access to the building.

Greenwich to Broadway between Chambers and Murray

This area was opened on 9/28, based on two consecutive days of air monitoring showing levels below regulatory levels. New perimeter was moved from Chambers to Murray. Air sampling continues in this area to verify clearance levels. PCM results for 9/30 and TEM results (for PCM samples above .01fibers/cc on 9/29) are as follows:

	PCM 9/30/01	PCM 9/29/01	TEM results from 9/29
Park Place and Church	0.024 fibers/cc	0.020 fibers/cc	16 (a/mm2)
Park Place and Greenwich	<0.009 fibers/cc	<0.009 fibers/cc	NA
Murray and Church	0.042 fibers/cc	0.041 fibers/cc	40 (a/mm2)
Murray and Greenwich	<0.009 fibers/cc	<0.009 fibers/cc	NA

9/30: Two of these results are high. High winds again have increased the level of dust in the air. Note: PCM is the more conservative method of analysis. These samples along with other samples that have shown an increase are being sent out for TEM analysis. TEM analysis for 9/29 samples resulted in acceptable results for maintaining new perimeter. There are acceptable levels below 70 structures/mm2. 9/30 PCM samples above .01fibers/cc have been sent out for TEM analysis. Both PCM and TEM are indoor standards used in mostly static settings. The dynamic outside

environment complicates the situation.

DOH

Anticipating vehicle advisory as promised by DOH for 9/30.

First Response

DEP HazMat performed a B5 sublevel entry with FDNY on 9/30. The entry was made to ascertain the condition of the slurry wall and the freon tanks. DEP HazMat monitored for Freon 22 with a direct reading instrument. All readings for freon22 were zero. In addition, water samples from the flooded path train subway tracks were taken. Samples will be analyzed for Freon 22 and results will be reported 10/1. As many precautions as possible for safety and exposure were taken given the conditions of entry. DEP HazMat monitored the atmosphere for oxygen, explosive conditions, freon22 and volatile organics. DEP determined that conditions at the time of entry were satisfactory for use of respirators. Supplied air was carried as an emergency backup in the event of encountering unforeseen conditions.

Washington Market Park

The childrens sand box at Washington Market Park on Chambers and Greenwich was cleaned out on 9/30. Reports of private residents taking samples and finding asbestos in the sand were alleged. DEP and EPA have not seen any reports or analysis. DEP took 3 samples of sand from the sandbox on 9/30. Analysis indicated two samples contained trace levels of chrysotile and one sample was negative.

Perimeter Results

Fulton & Church	0.011 fibers/cc
Trinity Place & Thames St.	0.076
Warren & North End Ave	0.009
River Terrace & Park Pl. West	0.009
River Terrace & Chambers	0.009
River Terrace between Park Pl & Warren	0.011
West & Warren	0.009
River Terrace & Vesey	0.008
South End Ave & Albany	0.031
Rector Pl by Park	0.020
West Thames at waterfront	0.009
West of 3rd Pl (South Cove Apts.)	0.015
West & Albany	0.022
Gateway Plaza Park are	0.008

To: Commissioner Aualtroni 4544

FROM: HANNA - HAZMAT MOBILE LAB.
212-312-9969

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Murray and Greenwich	<0.009 fibers/cc	<0.009 fibers/cc	NA

9/30: Two of these results are high. High winds again have increased the level of dust in the air. Note: PCM is the more conservative method of analysis. These samples along with other samples that have shown an increase are being sent out for TEM analysis. TEM analysis for 9/29 samples resulted in acceptable results for main street new perimeter. There are acceptable levels below 70 structures/mm2. 9/30 PCM samples above .01fibers/cc have been sent out for TEM analysis. Both PCM and TEM are indoor standards used in mostly static settings. The dynamic outside

To: Commissioner Aultroni 4544

From: HANNA - HAZMAT MOBILE LAB.
212-312-9969

Commissioners WTC Update for 9/30/01

Battery Park City

The playground area in North Battery Park City is still scheduled for Monday at 7:00am to be cleaned. This will include the removal of sand from the sandboxes. This cleanup has been delayed to this point at the request of Battery Park Conservancy. Playground area is still not secured and DEP has maintained the recommendation that it should have been cleaned up immediately. The EPA has confirmed tonight that the park will begin being cleaned at 7am on 10/1/01 regardless of the weather conditions.

Issues at Gateway Plaza:

The facade of the 600 building (375 South End Ave), the garage area and inner court yard are still being cleaned. It is the responsibility of the building owners to assure the integrity of the apartments inside the buildings. They are aware of the EPA requirements for sampling and clearing apartments.

*The checkpoint and wash station located at the SW corner of South End Ave. and Albany Street has not been moved. Consideration for it's relocation to the NE corner of South End Ave. and Albany Street was made in an effort to ease the access for tenants into the complex. However, it has been determined that easy access is available at the existing location. The PD is fully aware of the sensitivity of this matter and understands the need for tenants to easily access their apartments without imparting undue burdens on security restrictions.

4 Financial Center

No change from 9/29/01 update. Inspection of the building on 9/28 revealed contamination of lobby areas, restaurant and several bar areas. Some windows were blown out on the facade facing south. No cleanup work observed inside building. Cleanup is the responsibility of the building owner, including inside areas, facade and rooftop. We will put outside area on list for cleanup as a priority to give access to the building.

Greenwich to Broadway between Chambers and Murray

This area was opened on 9/28, based on two consecutive days of air monitoring showing levels below regulatory levels. New perimeter was moved from Chambers to Murray. Air sampling continues in this area to verify clearance levels. PCM results for 9/30 and TEM results (for PCM samples above .01fibers/cc on 9/29) are as follows:

	PCM 9/30/01	PCM 9/29/01	TEM results from 9/29
Park Place and Church	0.024 fibers/cc	0.020 fibers/cc	16 (#/mm2)
Park Place and Greenwich	<0.009 fibers/cc	<0.009 fibers/cc	NA
Murray and Church	0.042 fibers/cc	0.041 fibers/cc	40 (#/mm2)
Murray and Greenwich	<0.009 fibers/cc	<0.009 fibers/cc	NA

9/30: Two of these results are high. High winds again have increased the level of dust in the air. Note: PCM is the more conservative method of analysis. These samples along with other samples that have shown an increase are being sent out for TEM analysis. TEM analysis for 9/29 samples resulted in acceptable results for maintaining new perimeter. There are acceptable levels below 70 structures/mm2. 9/30 PCM samples above .01fibers/cc have been sent out for TEM analysis. Both PCM and TEM are indoor standards used in mostly static settings. The dynamic outside

environment complicates the situation.

DOH

Anticipating vehicle advisory as promised by DOH for 9/30.

First Response

DEP HazMat performed a B5 sublevel entry with FDNY on 9/30. The entry was made to ascertain the condition of the slurry wall and the freon tanks. DEP HazMat monitored for Freon 22 with a direct reading instrument. All readings for freon22 were zero. In addition, water samples from the flooded path train subway tracks were taken. Samples will be analyzed for Freon 22 and results will be reported 10/1. As many precautions as possible for safety and exposure were taken given the conditions of entry. DEP HazMat monitored the atmosphere for oxygen, explosive conditions, freon22 and volatile organics. DEP determined that conditions at the time of entry were satisfactory for use of respirators. Supplied air was carried as an emergency backup in the event of encountering unforeseen conditions.

Washington Market Park

The childrens sand box at Washington Market Park on Chambers and Greenwich was cleaned out on 9/30. Reports of private residents taking samples and finding asbestos in the sand were alleged. DEP and EPA have not seen any reports or analysis. DEP took 3 samples of sand from the sandbox on 9/30. Analysis indicated two samples contained trace levels of chrysotile and one sample was negative.

Perimeter Results

Fulton & Church	0.011 fibers/cc
Trinity Place & Thames St.	0.076
Warren & North End Ave	0.009
River Terrace & Park Pl. West	0.009
River Terrace & Chambers	0.009
River Terrace between Park Pl & Warren	0.011
West & Warren	0.009
River Terrace & Vesey	0.008
South End Ave & Albany	0.031
Rector Pl by Park	0.020
West Thames at waterfront	0.009
West of 3rd Pl (South Cove Apts.)	0.015
West & Albany	0.022
Gateway Plaza Park are	0.008

For 9/29 report
a.m.

September 28, 2001

Gateway Plaza

On Friday, September 28, 2001 (approximately 5:00 p.m.) the Bureau of Environmental Compliance received a call from Katherine Freed's office regarding residents not being allowed to get into 345, 355, 365, 375 and 385 South End Avenue (Gateway Plaza) to retrieve their valuables, etc.. At approximately the same time, Mr. Lefrak's office called to say that approximately 100 irate residents were assembled in the area demanding to get back into their apartments (again to get clothes, passports, etc.).

Environmental Compliance called Department of Health (DOH) and spoke to Jessica Leighton asking for her assistance in resolving this issue. She explained that from DOH's perspective, residents could be allowed to enter their apartments because it was a short-term exposure risk. She advised that poly be put down to allow for a temporary walkway for the residents. Also, she advised that residents should wear a dust mask and when the residents were in the apartment to disturb dusty areas as little as possible. Remove shoes before entering the apartment and clean the clothes they were wearing as soon as possible. These instructions were passed on to Mr. Lefrak. He asked assistance in getting dust masks and I told him we would try. Paul Bennett was advised of same. Moustafa Fawzy was advised of same and Moustafa also informed me that his unit had no dust masks. First Deputy Commissioner Chapin was also advised of the solution we were able to obtain.

F: Lefrak

September 28, 2001

Battery Park City inquiry (4 WFC Merrill Lynch)

Deputy Commissioner Avaltroni received a call from Tony Woo concerning EPA's setting up a DeCon Operation in very close proximity to 4 World Financial Center (Merrill Lynch). They asked if the DeCon Operation could be relocated one block north on West Street which would be away from the Merrill Lynch building. In our conversation with EPA they said that OEM and DOH had approved the location for De Con at Vesey and West Street.

We have asked Paul Bennett to inquire if we have an alternate site that could be used by EPA in this effort.

We are told that Merrill Lynch has lights and power at 4 WFC and are conducting clean-up activities intending on bringing in some personnel on Monday 10/1 with an eye toward occupying on 10/8. We are reviewing the location to deem how we can provide assistance and perform any necessary testing prior to occupancy.

FDC Chapin has been advised of our efforts.

F: 4wfc

ADDENDUM

COMMISSIONER'S WTC UPDATE FOR 9/30/01

- DOH has put a vehicle advisory on its website. It is included in its section on Frequently Asked Questions related to air quality following the WTC disaster.
- Freshkills Landfill – EPA has been doing air monitoring for asbestos since September 18/19. September 18/19 seems a little spotty; however, since September 20, they have been sampling twice a day. Their results are shared with OSHA, NIOSH, and State and City DOH.

To: Comm. Avattrom;
Fax: x4544

Commissioner WTC Update for 10/1/01

Battery Park City

South Battery Park areas are still in the cleanup stage. These areas include various streets and sidewalks, parking lots, ball fields and the promenade.

North Battery Park City work began cleaning the playground area. This includes the removal of sand from a large area. Currently, it is scheduled to be completed by Tuesday night.

Cleanup also continues on the north cove area near the marina.

Completed inspections of roof tops of buildings. Cleanup work will entail extensive rigging and use of vac trucks. Discussed plan of action and whether this is something we want to undertake with EPA. Timeframe to complete will be extensive. EPA has passed on this issue to the Army Corp of Engineers. Does not look to positive.

**375 South end ave
Lefrak building**

Courtyard cleanup complete. Work on façade of gateway plaza tower(600) continues into Tuesday morning. Residents should not be allowed in without protection until façade debris is removed from gateway tower. Lefrak was also notified that garage façade and inside areas must be cleaned otherwise they will spread contamination in the immediate area.

4 Financial Center

Inspection of building revealed contamination of lobby areas, restaurant and several bars. Some windows blown out on façade facing south. Will put outside areas on list for cleanup as priority. Building owner responsible for all inside areas, façade and roof top. Building management has all ready secured perimeter of building and has begun cleanup work.

Perimeter Results

Higher levels were detected closer to ground zero probably due to increased work activity on site. TEM analysis will be performed on samples with levels well above clearance to ensure perimeter is intact.

10/1/01

Fulton / Church = 0.035

Warren / North End Ave = 0.007

West Street & Warren = 0.009

NW Gateway Plaza at Park Area = 0.009

South End Ave & Albany = 0.009

West & Albany = 0.012

Rector Place by park = 0.009

3rd Place/West End/Waterside = 0.008

West end of West Thames = 0.009

Park Place & River Terrace = 0.008

River Terrace & Chambers = 0.007

River Terrace & Warren = 0.007

North End Ave & Park Place West = 0.007

Vesey & River Terrace = 0.009

Trinity Place & Thames = 0.015 and on 9/31/01=.076

Greenwich to Bdway between chambers and Murray

Cleanup work was completed on 9/25/01 at 0800hours in the area from Greenwich to Broadway, between Chambers and Murray. Advised that Construction company is responsible to insure no emissions from vehicles occur. At minimum, all loads must be substantially wet down, covered with tarps, and vehicles washed. Air monitoring was conducted in this area to maintain clearance levels. Four air samples were taken in the proposed area each day. All four samples passed clearance level. These results were as follows:

10/1/01

Park Place and church	.009 fibers/cc
Park Place and Greenwich	.009 fibers/cc
Murray and Church	.009 fibers/cc
Murray and Greenwich	.009 fibers/cc

DOH

Received draft vehicle advisory as promised from DOH. Made comments and returned.

First Response

First Response personnel Fawzy and Haas made entry with FDNY and ESU into a new un chartered area in the southwest corridor below the trade center. DEP provided real time monitoring for vital support gases in the environment and took air and water samples for further analysis. Investigation of the stability of the slurry wall was performed by engineers. Dep took samples of water intrusion to determine if it is possibly from the river. Additionally, air and water samples were taken to check for R22 refrigerant. An attempt was made by rafts to try to get through a flooded area to the freon tanks to assess there condition but was unsuccessful because of debri in the pathway.

The daily ground zero monitoring for dangerous gases showed normal background levels.

Future Progress

DERTA has surveyed other areas inside the perimeter in an effort to target potential sites to be opened. DERTA does not believe that it will be possible to clear any other areas because of the close proximity to ground zero. Major work at ground zero would have to be completed before we could reassess the feasibility of opening another area.

Commissioner WTC Update for 10/2/01

Battery Park City

South Battery Park areas are still in the cleanup stage. These areas include various streets and sidewalks, parking lots, ball fields and the promenade.

Completed inspections of roof tops of buildings. Cleanup work will entail extensive rigging and use of vac trucks. Discussed plan of action and whether this is something we want to undertake with EPA. Timeframe to complete will be extensive. EPA has passed on this issue to the Army Corp of Engineers. Does not look to positive.

375 South end ave Lefrak building

Courtyard cleanup complete. Work on façade of gateway plaza tower(600) continues into Tuesday morning. Residents should not be allowed in without protection until façade debris is removed from gateway tower. Lefrak was also notified that garage façade and inside areas must be cleaned otherwise they will spread contamination in the immediate area.

*Battery Park City misinformed their tenants by posting signs in Gateway Plaza complex informing residents that all questions concerning health and reoccupancy should be directed to Paul Bennett at Pier 92. Per the memo dated 10/2 from OEM, all questions concerning environmental issues will be directed to the EPA which is now the lead agency on these issues.

*OEM & DEP to meet at 6:45am on 10/2 to give OEM representative a tour of Gateway Plaza. Owners of Gateway Plaza no longer want to maintain their agreement in having tenants enter the complex through the promenade via SouthEnd Ave. and Albany Street. This access way was cleaned and cleared for the public access to the Gateway Plaza. On 10/2, Battery Park City owners have cordoned off the promenade from entry to their tenants according to DERTA and DEP OEM observation. In addition, they have been giving access through Liberty and South End Ave which has not been cleaned and is at ground zero. DEP will identify the issues to OEM and maintain it's position in permitting public entry only through the areas that have been cleaned and cleared. In addition, OEM will be advised that consideration of moving the decontamination wash station and checkpoint at South End Ave and Albany is inadvisable. Such a move will open Battery Park City South to recontamination with asbestos containing debris. OEM will be advised of the 10/2 memo issued from their office now identifying the EPA as the lead agency on these issues.

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Inspection of building revealed contamination of lobby areas, restaurant and several bars. Some windows blown out on façade facing south. Will put outside areas on list for cleanup as priority. Building owner responsible for all inside areas, façade and roof top. Building management has all ready secured perimeter of building and has begun cleanup work.

Greenwich to Bdway between chambers and Murray

Cleanup work was completed on 9/26/01 at 0800hours in the area from Greenwich to Broadway, between Chambers and Murray. Advised that Construction company is responsible to insure no emissions from vehicles occur. At minimum, all loads must be substantially wet down, covered with tarps, and vehicles washed. Air monitoring was conducted in this area to maintain clearance levels. Four air samples were taken in the proposed area each day. All four samples passed clearance level. These results were as follows:

10/2/01

Park Place and church	.007 fibers/cc
Park Place and Greenwich	.008 fibers/cc
Murray and Church	.007 fibers/cc
Murray and Greenwich	.008 fibers/cc

DOH

Received draft vehicle advisory as promised from DOH. Made comments and returned.

First Response

First Response personnel Fawzy and Haas made entry with FDNY and ESU into a new un chartered area in the southwest corridor below the trade center. DEP provided real time monitoring for vital support gases in the environment and took air and water samples for further analysis. Investigation of the stability of the slurry wall was performed by engineers. Dep took samples of water intrusion to determine if it is possibly from the river. Additionally, air and water samples were taken to check for R22 refrigerant. An attempt was made by rafts to try to get through a flooded area to the freon tanks to assess there condition but was unsuccessful because of debri in the pathway.

* Analytical lab results indicate the presence of sea water in the samples. The FDNY Office of Chief Bob Ingraham has been notified of the results.

The daily ground zero monitoring for dangerous gases showed normal background levels.

Future Progress

DERTA has surveyed other areas inside the perimeter in an effort to target potential sites to be opened. DERTA does not believe that it will be possible to clear any other areas because of the close proximity to ground zero. Major work at ground zero would have to be completed before we could reassess the feasibility of opening another area.

Perimeter Results

Higher levels were detected closer to ground zero probably due to increased work activity on site. TEM analysis will be performed on samples with levels well above clearance to ensure perimeter is intact.

10/2/01

Fulton / Church = 0.019

Warren / North End Ave = 0.009

West Street & Warren = 0.009

NW Gateway Plaza at Park Area = 0.008

South End Ave & Albany = 0.008

West & Albany = 0.009

Rector Place by park = 0.008

3rd Place/West End/Waterside = 0.008

West end of West Thames = 0.009

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Commissioner WTC Update for 10/2/01

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TO: Commissioner Aualtroni 4544

FROM: HANNA - HAZMAT MOBILE LAB.

212-312-9969

4 Financial Center

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10.2'01

Park Place and church	.007 fibers/cc
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DOH

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* Analytical lab results indicate the presence of sea water in the samples. The FDNY Office of Chief Bob Ingraham has been notified of the results.

The daily ground zero monitoring for dangerous gases showed normal background levels.

BUREAU OF ENVIRONMENTAL COMPLIANCE
SEPTEMBER 20, 2001 – 10 AM

- Air Quality: See attached
- We are getting many calls with respect to re-occupancy and are working as closely as possible with building owners and the contractors to effectively expedite necessary measures. However, some of the buildings that have been highlighted including 100 Church, 40 Rector, etc., show significant problems requiring clean-up efforts that will take much time. We have been to all locations in the area (ground zero, perimeter, etc.) and have seen the devastation and significant work to be done as we move to recovery.
- We have had a dialogue with the DOH as previously suggested and are awaiting a script to disseminate to our Help Line so we may have one voice in speaking to air quality questions and concerns.
- We are also attempting to work diligently with EPA in all efforts and are running into what was considered to be anticipated problems in an effort as huge as the one we are confronted with. These communication problems have come about due to the number of individuals at various points of the process, and at various stages of the process, that came to offer us assistance. We will work through these anticipated problems and attempt to convey that same “one voice” message to the people of our City to avoid confusion and concerns

Thursday September 20: AM Report from HazMat Mobile Lab

- **Results of Air Testing:**
 1. Murray/Church = .014 fibers/cc
 2. Greenwich/Murray = < .008
 3. Fulton /Church = .02
 4. Warren/North End Ave = < .007

South Side Battery Park City

NW Gateway Plaza .01
South End Ave & Liberty = .013
West & Albany = .05
Rector & Park Place = .007
3rd Place & Battery Place
West Thames by Water = .007

North Side Battery Park City

Chambers & River Terrace = .012
River Terrace & Park Place West = .007
North End Ave – 1 block North of Vesey = .012
North End Ave & Park Place West = .050
Warren & West = .03
Vesey & River Terrace = .012

September 17, 2001: Bureau of Environmental Compliance**1:00 p.m.**

- Stuyvesant High School: We are ready to assist the Board of Ed with respect to expediting clean-up activities as soon as the rescue efforts are aborted or redesignated. We are told that they have identified a contractor who is ready to commence activity immediately.
- 100 Gold Street: Clean-up at 100 Gold Street has been underway and we anticipate re-occupying by Tuesday morning.
- Battery Park City: We have observed the site and are attempting to meet with the building owners to assist in clean-up efforts for expedited re-occupancy.
- We are meeting and working with EPA and DEC with respect to additional air monitoring at various locations in the city. We will keep all parties apprised of our collaborative efforts.

Monday September 17: 6 AM Report from HazMat Mobile Lab

- **Results of Air Testing:**
 1. Murray/Church = .03 fibers/cc SW corner
 2. Fulton/Church = .03 SW corner
 3. Greenwich/Murray = .013
 4. Murray bet. Church and B'way = .052
 5. Fulton bet. Church and B'way = .027
 6. Vesey bet Church and West B'way = .024
 7. SE Washington & Park Place = .038
 8. City Hall = before clean-up 2nd floor = west wing .022
1st floor blue room .011
 9. 100 Gold Street = Lobby = .006
9th Floor = .004 (DCAS will complete clean-up of bldg interior w/ DEP supervision)
- **9 AM Meeting with OEM:** HazMat will be meeting with OEM and other agencies this morning to discuss 24 hour response in the Hotspot. DEP will be taking the lead role. *will fire*
- **Stuyvesant High School:** Will look at the feasibility of relocating temporary emergency personnel and their equipment (will report back later this morning or early afternoon). HazMat will assess cleanup of school and also will begin to look at residential buildings in Battery Park City.

September 16, 2001: Bureau of Environmental Compliance Recommendations Regarding the Re-Occupancy of Evacuated Buildings & Bureau's Update on Daily Report Regarding Hazmat Activities and Asbestos Air Sampling:

DEPARTMENT OF HEALTH ISSUES

- Based on the imminent release of City DOH's Public Advisory, we recommend that all inquiries regarding the re-occupancy of buildings with regard to health & safety should be referred to the New York City Department of Health (DOH). We have recommended that a DOH hotline be established immediately.
- Conferred with Dr. Andrea Lyman, DOH, who concurs with our recommendation and the establishment of a DOH Hotline.
- DEP's Bureau of Environmental Compliance (BEC) will offer any technical support and advice needed to assist DOH in their mission.
- It is BEC's recommendation that DOH's Public Health Advisory regarding the re-occupancy of buildings be finalized and posted on the City's website and that DOH should attempt to disseminate the information to the public. The Real Estate Board, Building Management Agencies and others may be able to assist DOH in this endeavor.
- It is BEC's recommendation that DOH be supported by sister agencies with respect to sufficiently staffing this effort.
- DEP's BEC will continue to address the air, asbestos and/or hazardous material clean-up through the DEP complaint center at 718 DEP-HELP. To date inquiries are light.

Update on Daily Report Regarding Hazmat Activities and Asbestos Air Sampling:

- **Results of Air Testing at City Hall:** All asbestos wipes taken following the clean-up at City Hall tested negative. Additional air monitoring results are expected by early evening. (We don't anticipate any problems)
- **Update on HEPA Vacuuming of Financial District:**

All streets east of Broadway have been addressed. Site inspections indicate that the streets are clean, free of debris and are accessible to the general public.

Contractors have completed clean-up of City Hall Park and Park Row.

- **Derelict Vehicle Update:**

Thus far, all derelict and towed vehicles have been moved to 2 locations:

1. Pier 76 (between 34 & 35 Streets)
2. Market Slip (under FDR). (Total of 50 Vehicles at both sites)

EPA has given high priority to the cleaning of the 50 vehicles located at the above listed locations (should be completed by late Sunday).

A central site has been identified for the cleaning of the vehicles still located inside the hotspot. All vehicles being taken out will have to be funneled through **Warren and West Streets** where the National Guard using power washers will do gross decons of the vehicles. This includes vehicles transferring debris to the Fresh Kill Landfill and any other transfer stations or points of destination.

Update on Asbestos Air Monitoring Samples in the Boroughs: (see attachment).

DEP & Fire Department Hazmat: DEP's Hazmat has been working with Fire Department Hazmat and has offered our services and assistance with any and all training and response needs. Moustafa Fawzy has been working closely with Captain Doherty and has assured FDNY's Hazmat of our complete cooperation and assistance at this difficult time.

RESULTS OF ASBESTOS AIR MONITORING

4

Sunday September 16: 6 AM Report from HazMat Mobile Lab

*****Update to Sept. 16 – 6 AM Report: The perimeter of the hotspot remains the same as it was yesterday:**

**North: Warren Street
East: Broadway
South: Exchange Place
West: Hudson River**

- **Results of Air Testing:**

1. Murray/Church = .022 fibers/cc NW corner
 2. Fulton/Church = .034 SW corner
 3. Liberty/Church = replaced w/ B'way /Liberty .0082
 4. Trinity/Cedar = replaced with B'way/Cedar = .033
 5. Church/Dey = danger zone
 6. Park Place/Greenwich = .076
 7. Greenwich/Murray = .031
 8. Murray bet. Church and B'way = .0124
 9. Fulton bet. Church and B'way = .035
 10. B'way and Murray = .045
 11. Vesey bet Church and West B'way = .035
- (10 & 11 – represent 2 additional sites)**

- **Update on HEPA Vacuuming of Financial District:**

Clean-up continued through the night at financial district and Wall Street area. There is a problem vacuuming to the west of B'way, the noise created by the machine interfered with the rescuers activities. A Deputy Inspector from the Police Department halted activity west of Broadway.

EPA contractors will begin clean-up of City Hall Park and Park Row sidewalks at 7AM this morning.

- **Derelict Vehicle Update:**

Thus far, all derelict and towed vehicles have been moved to 2 locations:

1. Pier 76 (between 34 & 35 Streets)
2. Market Slip (under FDR). (Total of 50 Vehicles at both sites)

EPA will ~~HELP~~ vac dirt and debris at these two sites.

Another site to be established on the south side of the Hot Zone for vehicles that are to be taken out of the hot spot (**Washington & Carlyle this not yet confirmed**).

Legal Issues have arisen regarding the contractors liability regarding the cleaning of debris ridden vehicles. Mark Hoffer and Charles Sturcken have been consulted and are attempting to work out the details.

- **Freon Update:** EPA took airbag sample from shaft and used HazMat's equipment in the mobile lab to test the sample. They were testing specifically for Freon R22 and the results were zero.

SEPTEMBER 15, 2001: 2PM UPDATE

- **PLAN FOR DERELICT VEHICLE REMOVAL (GROUND ZERO):** FDC Chapin and Mike Gilsenan have discussed the methodology for the removal of the vehicles from ground zero. The plan is as follows:
 1. EPA will supply a HEPA vac for as long as is needed
 2. MTA will supply power washer
 3. Vehicles will be funneled through a central point where vacuuming and washing will take place.
 4. Vehicles will be towed to a location underneath the Manhattan Bridge.
- Agencies involved need to coordinate through OEM.
- **FREON GAS EMISSION:** BEC staff, EPA and others were meeting at 2PM today to discuss Freon gas emissions emanating from a shaft at ground zero. DEP's equipment does not have sufficient length to properly monitor the site. EPA has been asked to perform the monitoring.
- **DEPARTMENT OF HEALTH PUBLIC HEALTH ADVISORY:** BEC's Asbestos Unit has been contacted by DOH and asked to comment on their Public Health Advisory regarding the reoccupation of commercial and residential buildings. Asbestos has made some changes (see attachments).
- **HEPA VAC. FINANCIAL DISTRICT UPDATE:** Update on the HEPA vacuuming of financial district streets and sidewalks. The vacuuming is progressing well. One problem area is located at Cedar and Trinity Streets. There are cables in the streets interfering with the process, these cables are providing services to a temporary morgue. The contractor will go back to the area later today.

September 15 AM Report from HazMat Mobile Lab:

- The north and east sides of the perimeter have been reduced:

Northbound: Warren Street
Eastbound: Broadway

(Yesterday's north border was Worth Street and east border was Nassau Street)

The south and west perimeters remain the same, (Exchange Place and the Hudson River).

- Results of Air Testing:

1. Murray\Church = .008 fibers/cc
2. Fulton\Church = .007
3. Liberty\Church = .02
4. Trinity\Cedar = .027
5. Church\Dey = .007
6. Park Place\Greenwich = .009
7. Greenwich\Murray = .003
8. Murray between Church & B'way = .002
9. Fulton between Church & B'way = .01

- Clearance Level = .01 clean-up inside building
OSHA level = .1 fiber/cc
- Contractor hired by EPA is HEPA vacuuming the Financial Streets and sidewalks starting at Broadway and Water Streets and continuing to Pine and Whitehall Streets. Upon completion, if they decide to continue, they will begin to the West of Broadway.

Current HazMat Operations

9/13/01 3:00 p.m.

Air Sampling in and around zone

Currently DEP's HazMat Unit in conjunction with US EPA are using HazMat Field Survey instruments to monitor for classes of chemicals that may be emitted from the site. In addition, these instruments are monitoring for explosive atmospheres in and around the site. This is standard HazMat protocol for possible contaminated sites. Today is the first chance that HazMat and US EPA were able to conduct this joint effort because the level of particulates in the ambient air has subsided. (Particulates skew the reading of the instruments.)

Saturday, September 22, 2001: Daily Update

Report from Bureau of Environmental Compliance

Results of Air Testing:

Murray/Church = <.007

Greenwich/Murray = <.009

Fulton /Church = <.008

Warren/North End Ave = <.007

South Side Battery Park City

NW Gateway Plaza = .014

South End Ave & Albany = <.007

West & Albany = <.011

Rector Place = <.007

3rd Place & Battery Park = .009

West Thames by Water = .008

North Side Battery Park City

Chambers & River Terrace = <.007

River Terrace & Park Place West = <.007

North End Ave - River Terrace = .02

North End Ave & Park Place West = <.007

Murray & West = .01

Vesey & River Terrace = <.007

Battery Park City:

Update on Friday Night/Saturday Morning Clean-Up:

- All the main walkways and streets which allow access to buildings have been cleaned.
- Contractors are working on parks, gardens and common areas.
- Public has no access to areas that still need to be cleaned.
- Work is on-going on Albany Street, West of South End Ave.
- Contaminated cars at Pier 76 will be powerwashed by EPA.
- Anticipate the South Promenade will be cleaned by late this afternoon.

Updated up
to Joel by Bob/Mike
verbal to Diana

Leonard Atteloney
verbal

9/24 3:45pm

Greenwich + Park Place	0.012
Church + Murray	0.017
Greenwich + Murray	0.009
Park Place + Church	0.007

Commissioner WTC Report for 10/3/01

Addendum

- OEM wants to open Park Place from Broadway to Greenwich. They are siting our air monitoring station at Greenwich and Park Place that has had three consecutive days of levels below the 0.001 clearance level (10/1 - 0.004, 10/2 - 0.008, 10/3 - 0.009). Staff visited the area this morning and believes it will be a very long stretch to accomplish this. Truck traffic still moves down Park Place and the outside of buildings are in the process of being cleaned. EPA is also conducting a walk through (unofficially we hear that they do not think this area can be opened and maintained clean) will advise when we hear officially. D/C Avaltroni has had a conversation with Mike Berkowitz of OEM with respect to moving the wash station from Church and Park Place to alleviate some of the traffic. We will be conducting another walk through with EPA to see if conditions change to remove current prohibitions.
- DEC sent DEP an Executive Order that relaxes many hazardous materials transportation and storage rules. They would like DEP to review and okay. F/D/C Chapin was given a copy of the order.
- Some buildings downtown are in the process of cleaning their facades and in that process are spraying water about. On the morning of 10/4, HazMat staff went to these buildings to make sure that they are containing the water residue. Air staff has been deployed to assist in this matter. This is obviously a predictable occurrence that we are attempting to remediate.

Commissioner WTC Report for 10/3/01

- **Stuyvesant High School**

In anticipation of the opening of Stuyvesant High School scheduled for 10/8, we will be conducting a walk through of the exterior walkways and entry points to the building. We will be conducting this walk through with members of the Board of Ed, DOH, EPA and the cleaning contractor. Additionally, our staff will be doing a visual inspection of the interior with the Board of Ed prior to re-occupancy.

- **High School for Economics & Finance**
90 & 100 Trinity Place
IS 89 201 Warren Street
PS 234 292 Greenwich Street

We will follow the same strategy implemented for Stuyvesant High School for these schools scheduled to be re-opened on 10/8.

- **As per OEM's request, air sampling will commence 10/4 in the areas adjacent to each of the previously mentioned schools in preparation of re-occupancy.**

Commissioner WTC Update for October 3, 2001**Greenwich to Bdway between chambers and Murray****10/3/01 Air Monitoring results**

Park Place and church	.009 fibers/cc
Park Place and Greenwich	.009 fibers/cc
Murray and Church	.009 fibers/cc
Murray and Greenwich	.021 fibers/cc

Perimeter Results

Fulton / Church	0.023 fibers/cc
Warren / North End Ave	0.010
West Street & Warren	0.009
Gateway Plaza(South End Ave/Liberty)	0.010
South End Ave & Albany	0.008
West & Albany	0.009
Rector Place by park	0.009
3 rd Place/West End/Waterside	0.008
West end of West Thames	0.011
Park Place & River Terrace	0.009
River Terrace & Chambers	0.009
River Terrace & Warren	0.009
North End Ave & Park Place West	0.009
Vesey & River Terrace	0.009
Trinity Place & Thames	0.020

New York State Department of Environmental Conservation
Division of Legal Affairs, Room 402
625 Broadway, Albany, New York 12233-1500
Phone: (518) 402-9185 • FAX: (518) 402-9018
Website: www.dec.state.ny.us



FAX TRANSMITTAL

TO: Mike Gilsenan - NYCDEP
FROM: Margaret Sheen -
DATE: 10/3/01

MESSAGE: Attached is the Executive Order re: transportation handling of WTC debris. Thanks for your attention on this. Please let me know if NYCDEP approves.

PLEASE CONTACT LINDA WILKINSON AT (518) 402-9184 IF YOU HAVE ANY PROBLEMS WITH THIS TRANSMITTAL.

CONFIDENTIALITY NOTE:

This facsimile message is intended only for the use of the individual or entity named above and may be legally privileged and confidential information. If you are not the intended recipient, any dissemination, distribution or copying of this facsimile is strictly prohibited.

No.

EXECUTIVE ORDER

**SUSPENSION OF REGULATIONS REGARDING TRANSPORTATION AND HANDLING
OF CERTAIN SOLID WASTE RESULTING FROM THE WORLD TRADE CENTER
DISASTER**

WHEREAS on September 11, 2001, I issued Executive Order Number 113 declaring a disaster emergency in the State of New York;

NOW, THEREFORE, I, GEORGE E. PATAKI, Governor of the State of New York, by virtue of the authority vested in me by the Constitution and Laws of the State of New York, do hereby continue Executive Order No. 113, dated September 11, 2001, except that such Executive Order is amended to read as follows:

FURTHER, pursuant to the authority vested in me by Section 29-a of Article 2-B of the Executive Law to temporarily suspend specific provisions of any statute, local law, ordinance, orders, rules or regulations, or parts thereof, of any agency during a State disaster emergency, if compliance with such provisions would prevent, hinder or delay action necessary to cope with the disaster, I hereby temporarily suspend, for the period from the date of this Executive Order until further notice, the following regulations:

6 NYCRR part 364 to the extent that this part requires persons working under the supervision of government officials of the State and/or City of New York in connection with the disaster emergency to obtain permits for the collection, transportation and delivery of regulated waste to the staging areas or disposal locations owned or operated by the City of New York;

6 NYCRR parts 370 through 374 and part 376 to the extent that these parts require persons working under the supervision of government officials of the State and/or City of New York in connection with the disaster emergency to comply with hazardous waste management standards at the disaster site, during the transportation of such waste from the disaster site to staging areas or disposal locations owned or operated by the City of New York, and in connection with the storage of such waste at these staging areas or disposal locations

"temporary"

G I V E N under my hand and

the

Privy Seal of the State

in the City of Albany

this day of in the year

two thousand.

HAZMAT TESTING AT GROUND ZERO

VOCS

Carbon Monoxide
Chlorine Gas
Ammonia
Hydrogen Cyanide
Freon
Combustible Gas
Hydrogen Sulfide
Natural Gas

Transformers tested

PCBs samples less than 1 ppm

Flame ionization detector/photo ionization detector

TESTING AT GROUND ZERO BY DEP HAZMAT
From 9/13 – 9/19

Freon	Negative
VOC's	Negative
Chlorine	Negative
Methane	Negative
H2 Cynaide	Negative
Lower Explosive Levels	Negative
Carbon Monoxide	Slightly elevated

Current HazMat Operations

9/13/01 3:00 p.m.

Air Sampling in and around zone

Currently DEP's HazMat Unit in conjunction with US EPA are using HazMat Field Survey instruments to monitor for classes of chemicals that may be emitted from the site. In addition, these instruments are monitoring for explosive atmospheres in and around the site. This is standard HazMat protocol for possible contaminated sites. Today is the first chance that HazMat and US EPA were able to conduct this joint effort because the level of particulates in the ambient air has subsided. (Particulates skew the reading of the instruments.)

SEPTEMBER 15, 2001: 2PM UPDATE

- **PLAN FOR DERELICT VEHICLE REMOVAL (GROUND ZERO):** FDC Chapin and Mike Gilsenan have discussed the methodology for the removal of the vehicles from ground zero. The plan is as follows:
 1. EPA will supply a HEPA vac for as long as is needed
 2. MTA will supply power washer
 3. Vehicles will be funneled through a central point where vacuuming and washing will take place.
 4. Vehicles will be towed to a location underneath the Manhattan Bridge.

Agencies involved need to coordinate through OEM.

- **FREON GAS EMISSION:** BEC staff, EPA and others were meeting at 2PM today to discuss Freon gas emissions emanating from a shaft at ground zero. DEP's equipment does not have sufficient length to properly monitor the site. EPA has been asked to perform the monitoring.
- **DEPARTMENT OF HEALTH PUBLIC HEALTH ADVISORY:** BEC's Asbestos Unit has been contacted by DOH and asked to comment on their Public Health Advisory regarding the reoccupation of commercial and residential buildings. Asbestos has made some changes (see attachments).
- **HEPA VAC. FINANCIAL DISTRICT UPDATE:** Update on the HEPA vacuuming of financial district streets and sidewalks. The vacuuming is progressing well. One problem area is located at Cedar and Trinity Streets. There are cables in the streets interfering with the process, these cables are providing services to a temporary morgue. The contractor will go back to the area later today.

595-4544

Sunday September 16: 6 AM Report from HazMat Mobile Lab

- **Results of Air Testing:**

1. Murray/Church = .022 fibe. s/cc NW corner
 2. Fulton/Church = .034 SW corner
 3. Liberty/Church - replaced w/ B'way /Liberty .0082
 4. Trinity/Cedar - replaced with B'way/Cedar = .033
 5. Church/Dey - danger zone
 6. Park Place/Greenwich - .076
 7. Greenwich/Murray - .031
 8. Murray bet. Church and B'way = .0124
 9. Fulton bet. Church and B'way = .035
 10. B'way and Murray .045
 11. Vesey bet Church and West B'way = .035
- (10 & 11 - represent 2 additional sites)

- **Update on HEPA Vacuuming of Financial District:**

Clean-up continued through the night at financial district and Wall Street area. There is a problem vacuuming to the west of B'way, the noise created by the machine interfered with the rescuers activities. A Deputy Inspector from the Police Department halted activity west of Broadway.

EPA contractors will begin clean-up of City Hall Park and Park Row sidewalks at 7AM this morning.

- **Derelict Vehicle Update:**

Thus far, all derelict and towed vehicles have been moved to 2 locations:

1. Pier 76 (between 34 & 35 Streets)
2. Market Slip (under FDR). (Total of 50 Vehicles at both sites)

EPA will HEPA vac dirt and debris at these two sites.

Another site to be established on the south side of the Hot Zone for vehicles that are to be taken out of the hot spot (Washington & Carlyle this not yet confirmed).

Legal Issues have arisen regarding the contractors liability regarding the cleaning of debris ridden vehicles. Mark Hoffer and Charles Sturcken have been consulted and are attempting to work out the details.

- **Freon Update:** EPA took airbag sample from shaft and used HazMat's equipment in the mobile lab to test the sample. They were testing specifically for Freon R22 and the results were zero.

596-4544

Sunday September 16: 6 AM Report from HazMat Mobile Lab

*** Results of Air Testing:**

- 1 Murray/Church = .022 fibers/cc NW corner
 - 2 Fulton/Church = .034 SW corner
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 - 9 Fulton bet Church and B'way = .035
 - 10 B'way and Murray .045
 - 11 Vesey bet Church and West B'way = .035
- (10 & 11 represent 2 additional sites)

*** Update on HEPA Vacuuming of Financial District:**

- Work continued through the night at financial district and Wall Street area. As predicted, vacuuming to the west of B'way, the noise created by the vacuuming and the rescuers activities. A Deputy Inspector from the Department coordinated activity west of Broadway.
- The street was being cleaned, City Hall Park and Park Row sidewalk, at 7 AM this morning.

*** Fleet Vehicle Update:**

- Now, all debris and towed vehicles have been moved to 2 locations:
 - 1 Pier 76 (between 34 & 35 Streets)
 - 2 Market Slip (under FDR) (Total of 50 Vehicles at both sites)

EPA will HEPA vac dirt and debris at these two sites.

Another site to be established on the south side of the Hot Zone for vehicles that are to be taken out of the Hot spot (Washington & Carlyle this not yet confirmed)

Legal Issues have arisen regarding the contractors liability regarding the cleaning of debris ridden vehicles. Mark Hoffer and Charles Sturcken have been consulted and are attempting to work out the details

- **Freon Update:** EPA took airbag sample from shaft and used HazMat's equipment in the mobile lab to test the sample. They were testing specifically for Freon R22 and the results were zero

Monday September 17: 6 AM Report from HazMat Mobile Lab

- **Results of Air Testing:**
 1. Murray/Church = .03 fibers/cc SW corner
 2. Fulton/Church = .03 SW corner
 3. Greenwich/Murray = .013
 4. Murray bet. Church and B'way = .052
 5. Fulton bet. Church and B'way = .027
 6. Vesey bet Church and West B'way = .024
 7. SE Washington & Park Place = .038
 8. City Hall = before clean-up 2nd floor = west wing .022
1st floor blue room .011
 9. 100 Gold Street =Lobby = .006
9th Floor = .004 (DCAS will complete clean-up of bldg interior w/ DEP supervision)

- **9 AM Meeting with OEM:** HazMat will be meeting with OEM and other agencies this morning to discuss 24 hour response in the Hotspot. DEP will be taking the lead role.

- **Stuyvesant High School:** Will look at the feasibility of relocating temporary emergency personnel and their equipment (will report back later this morning or early afternoon). HazMat will assess cleanup of school and also will begin to look at residential buildings in Battery Park City.



ROBERT C. AVALTRONI, DEPUTY COMMISSIONER
BUREAU OF AIR, NOISE, & HAZARDOUS MATERIALS

59-17 Junction Blvd., 11th floor
Corona, New York 11368-5107
(718) 595-4418
FAX (718) 595-4544

Kim
Hanna
phone in wed.

Received 9/18 AM
for Tuesday

Warren + North End 0.008
S/E corner (close to G.Z.)

West Street + Vesey .034
N/W corner (Grand Zero)

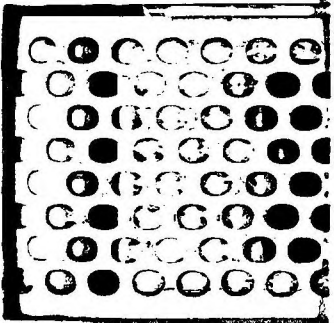
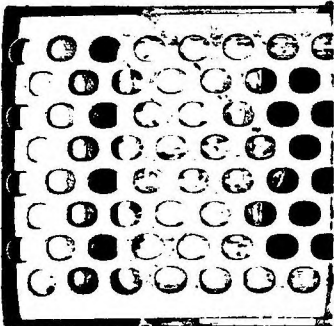
Perimeter samples

Murray + Greenwich .011
Liberty + Church .021
Fulton + Church .027
S/W corner

Murray + Church .018
S/E corner

Building

225 Rector Place .044
11th Floor .03
Lobby



September 21, 2001 AM update

Enzo
over
phone

**BUREAU OF ENVIRONMENTAL COMPLIANCE'S
PLANS FOR CLEANING BATTERY PARK SOUTH**

Not sent

- All streets including Rector Place
- All areas between West Street and South End Avenue (playgrounds, walkways, gardens, etc.
- South End Avenue up to Merrill Lynch Building (West of West Street; North of Liberty)
- Entire promenade on Hudson River side

**BUREAU OF ENVIRONMENTAL COMPLIANCE
PLANS FOR CLEANING BATTERY PARK SOUTH**

- All streets including Rector Place
- All areas between West Street and South End Avenue (playgrounds, walkways, gardens, etc.)
- South End Avenue up to Merrill Lynch Building (West of West Street; North of Liberty)
- Entire promenade on Hudson River side

Friday September 21: AM Report from HazMat Mobile Lab

- **Results of Air Testing:**
 1. Murray/Church = $<.007$ fibers/cc
 2. Greenwich/Murray = $<.01$
 3. Fulton /Church = $<.007$
 4. Warren/North End Ave = $<.007$

NW Gateway Plaza = .009
South End Ave & Albany = $<.007$
South End Ave & Thames = .01
Rector & Park Place = $<.007$
West Thames by Water = $<.009$
Chambers & River Terrace = $<.011$
River Terrace & Park Place West = $<.011$
North End Ave & Park Place West = $<.007$
Vesey & River Terrace = $<.007$
River Terrace & North End Ave = $<.011$
West Side End of 3rd Place = $<.011$

*All results good.
Bob A
9/21 AM*

- HEPA vacuuming to be done this evening after 10PM between Chambers & Murray and Greenwich and Broadway.

Re-Occupancy of DCAS\City Owned Buildings:

The following was reported by DCAS Deputy Commissioner Joe Wagner: Any other questions regarding DCAS\City Owned building can be directed to DC Wagner's office (212) 380-2670

- Work as described in the re-occupancy checklist has been completed.
- Asbestos bulk and Air Samples have all produced satisfactory results.
- Duct work has been completed -- however Window Air Conditioning Units have not been completed. Notices have been posted instructing staff not to use window AC's.
- October 1, is the anticipated date of completion for work.
- All Buildings have been checked twice (by both private & City) for structural stability and all have been certified as safe.
- 280 Broadway: Roof which was in the process of being replaced prior to WTC collapse was found to be stable with no debris.
- Ground Zero Buildings still affected by odors include 253 Broadway and the Municipal Building.
- Some phone service is still interrupted, elevator service in buildings is operable.

Commissioner WTC Update for 9/23/01 Activities

South Battery Park areas are still in the cleanup stage. These areas include rector Place Park and playground, various streets and sidewalks, and the promenade.

Battery Park Conservancy manager, Bob Serpico indicated on 9/22/01 that he would secure the park at the North Battery Park area until they could conduct samples for clearance. The park was not secured as of 2200 hours on 9/23/01. Various areas along the promenade from vessey street all the way to just south of 1st place remain contaminated. We have prioritized the streets and sidewalk areas followed by the playground and vehicles and lastly the promenade since the Battery Park Conservancy indicated they would handle it.

Cleanup work continues to be conducted in the area from Greenwich to Broadway, between Chambers and Murray. Air monitoring was conducted in this area in an effort to move the site perimeter from chambers to murray. Four air samples were taken in the proposed area. Two samples were found to be borderline at the clearance criteria of .01 fibers/cc. One sample was found to be above the criteria. The remaining sample was found to be below the cleanup criteria. These results were as follows:

Park Place and church	.01 fibers/cc
Park Place and Greenwich	.014 fibers/cc
Murray and Church	.007 fibers/cc
Murray and Greenwich	< .01 fibers/cc

Sample results indicate the need to continue to remediate the contamination and perform additional sampling for clearance. If after additional cleanup the sampling results are substantially lower than the criteria of .01 fibers/cc we should move to shrink the chambers street perimeter if the other environmental agencies are in agreement. Otherwise we would need to conduct additional air monitoring and cleaning until we achieve this goal.

On 9/24/01 we will continue outdoor remediation of the proposed area and believe it will be completed sometime on Tuesday afternoon.

We have still not seen the vehicle advisory as promised from DOH.

At 2200 hours DERTA was requested by FDNY to report to the forward command center to evaluate a condition in the verizon building. DERTA determined the gas odor was hydrogen sulfide caused by fill decay or sewer gas in the basement of the verizon building. This condition was then referred to the verizon safety personnel.

DERTA has surveyed other areas inside the perimeter in an effort to target potential sites to be opened. DERTA does not believe that it will be possible to clear any other areas because of the close proximity to ground zero. Major work at ground zero would have to be completed before we could reassess the feasibility of opening another area.

The five boro sample results were normal. The daily ground zero monitoring for dangerous gases was negative.

Air monitoring around the perimeter and in selected areas were as follows:

Park Place & Church	0.01 Fibers/cc
Park Place & Greenwich	0.014 Fibers/cc
Murray & Church	<0.007 Fibers/cc
Murray & Greenwich	<0.01 Fibers/cc
Trinity & Thames	0.013 Fibers/cc
West Street & Albany Street	<0.01
Fulton & Church	0.026
Third place	<0.008
West of Thames st	<0.008
North End ave and Warren	<0.007
North End Ave and Park Pl	<0.007
River Terrace and Vessey	<0.007
West st and Warren	<0.008
Gateway Plaza at Park area	0.02
River Terrace and Warren	0.009
Albany st and South End Ave	<0.007
Rector place	0.029
River Terrace and Park Place	<0.008
River Terrace and Chambers	<0.008

Sunday, September 23, 2001: Daily Update

Report from Bureau of Environmental Compliance

Results of Air Testing:

Murray/Church = .01

Greenwich/Murray = <.01

Fulton /Church = .008

Warren/North End Ave = <.009

West Street & Warren = <.01

NW Gateway Plaza at Park Area = .01

South End Ave & Albany = <.007

West & Albany = <..01

Rector Place = <.007

3rd Place/West End /Waterside = <.007

West of West Thames = <.008

Park Place & River Terrace = <.007

River Terrace & Chambers = .009

River Terrace & Warren = <.01

North End Ave & Park Place West = <.007

Vesey & River Terrace = <.007

101 Murray – Inside Building 6th Floor < .003

10th <.003

Lobby.003

2nd Floor <.003

Additionally, Air Monitoring continues in the WTC perimeter as well as in the 5 boros.

All testing has resulted in normal background levels.

Ground zero Monitoring results also indicate normal background levels.

Battery Park City Update:

Update on Saturday Night/Sunday Morning Clean-Up:

DEP recommends that DOH needs to convey the importance of properly evaluating the properties in and around Battery Park City. Careful evaluation of the properties will result in limiting human exposure & liabilities. DEP believes that Battery Park City's premature statement that the area was ready for reoccupancy had an adverse effect which resulted in much needed resources getting pulled from the area. EPA has expressed similar

concerns. DEP representatives spoke with Bob Serpico Of Battery Park City and reminded them of their responsibility to ensure that all areas are cleaned properly.

Last evening HazMat met with Paul Bennet & Kelly McKainney of DOH regarding issuing an advisory. DOH agreed to issue advisory regarding Vehicles.

- DEP is cleaning Rector Place at the Battery Park City's request
- DEP recommended that Battery Park City's sand be removed from sandboxes. Battery Park City will have independent testing done with regard to sand removal.
- Air Monitoring conducted at Battery Park North & South resulted in questionable borderline clearance levels most likely due to remaining contaminated areas. Results at Gateway Plaza, At West Street and Albany Street were = .01
- Cleanup continues on remaining areas
- Contractors are working on parks, gardens and common areas.

Occupancy of 101 Murray Street: FDNY wants to use as a resting Area. There are 3 Issues:

1. Building is inside the perimeter, therefore respiratory protection is required.
2. Area outside the building has not been remediated (2 days minimum cleanup time needed)
3. Construction Vehicle traffic on-going.

DC Chapin advised Fred Covina of Deputy Mayor Lhota's office of the issues. Air Monitoring results conducted on four floors inside the building were below clearance levels.

Perimeter Cleanup

Powerwashing and vacuuming will continue from Chambers to Murray between Greenwich and Broadway. Resources were pulled from Battery Park South to aid in cleanup effort. Anticipated completion time = 2 days.

HazMat anticipates that 2 more days of Air Monitoring are needed before exclusion zone can be moved from Chambers to Murray.

Paul Bennet will determine whether construction traffic can be moved to Park Place and if a vehicle decon station can be established.

Commissioner WTC Update for 9/23/01 Activities

South Battery Park areas are still in the cleanup stage. These areas include rector Place Park and playground, various streets and sidewalks, and the promenade.

Battery Park Conservancy manager, Bob Serpico indicated on 9/22/01 that he would secure the park at the North Battery Park area until they could conduct samples for clearance. The park was not secured as of 2200 hours on 9/23/01. Various areas along the promenade from vessey street all the way to just south of 1st place remain contaminated. We have prioritized the streets and sidewalk areas followed by the playground and vehicles and lastly the promenade since the Battery Park Conservancy indicated they would handle it.

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Park Place and Greenwich	.014 fibers/cc
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Murray and Greenwich	< .01 fibers/cc

Sample results indicate the need to continue to remediate the contamination and perform additional sampling for clearance. If after additional cleanup the sampling results are substantially lower than the criteria of .01 fibers/cc we should move to shrink the chambers street perimeter if the other environmental agencies are in agreement. Otherwise we would need to conduct additional air monitoring and cleaning until we achieve this goal.

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Rector place	0.029
River Terrace and Park Place	<0.008
River Terrace and Chambers	<0.008

<>

----- Headers -----
 Return-Path: <moose132@yahoo.com>
 Received: from rly-yb03.mx.aol.com (rly-yb03.mail.aol.com [172.18.146.3]) by air-yb04.mail.aol.com (v80.17) with ESMTP id MAILINYB45-0924003924; Mon, 24 Sep 2001 00:39:24 -0400
 Received: from web12304.mail.yahoo.com (web12304.mail.yahoo.com [216.136.173.102]) by

Commissioner WTC Update for 9/24 -25/01 Activities

Battery Park City

South Battery Park areas are still in the cleanup stage. These areas include rector Place Park and playground, various streets and sidewalks, and the promenade. Problems cleaning playground at rector street because of clogged drain have been working hard to get it resolved with no avail.

As you know, Battery Park City has now changed their mind and have requested we clean many more areas which would require a minimum of 10days remmediation. This new work includes areas in North Battery Park, South Battery Park and the cove area between them. It must be clearly explained to Battery Park executives that even with our help they still have areas they must clean and ultimately are responsible to ensure their properties are safe for residents and visitors. There are many areas which are inaccessable by EPA and DEP contractors which they have to address. For instance there are roof tops, open garages, Alcoves, and outside equipment (i.e. HVAC etc). We will continue to assist Battery Park City where we can.

Battery Park Conservancy manager, Bob Serpico indicated on 9/22/01 that he would secure the park at the North Battery Park area until they could conduct samples for clearance. The park was not secured as of 2200 hours on 9/23/01. Various areas along the promenade from vessey street all the way to just south of 1st place remain contaminated. We have prioritized the streets and sidewalk areas followed by the playground and vehicles and lastly the promenade since the Battery Park Conservancy indicated they would handle it.

Battery Park Conservancy has complained about cleanup contractors being to rough with their trees. DERTA advised them to give a list of sensitive areas they would like us not to clean and we will remove them from our list of areas. We advised them it is still there responsibility to ensure it is clean for there residents and public.

Greenwich to Bdway between chambers and Murray

Cleanup work continues to be conducted in the area from Greenwich to Broadway, between Chambers and Murray. Air monitoring was conducted in this area in an effort to move the site perimeter from chambers to murray. Four air samples were taken in the proposed area each day. These results were as follows:

9/23/01

Park Place and church	.01 fibers/cc
Park Place and Greenwich	.014 fibers/cc
Murray and Church	.007 fibers/cc
Murray and Greenwich	< .01 fibers/cc

9/24/01

Park Place and church	.007 fibers/cc
Park Place and Greenwich	.012 fibers/cc
Murray and Church	.017 fibers/cc
Murray and Greenwich	.009 fibers/cc

9/25/01

Results expected at 1600hours

101 Murray St.

Indoor air monitoring indicates it is below clearance levels. Although, it remains inside the site perimeter and outside air has not been cleared, onsite emergency personnel should be able to use this facility.

Other agencies have used TEM Asbestos analysis rather than PCM which is what DEP is using. Because of this they may feel it appropriate to open an area if TEM structures are below background. The problem with this approach is that this is a dynamic location effected by many factors. This approach would work better indoors in an enclosed static environment. The PCM approach looks at the number of fibers in a specific size range rather than asbestos fibers. Therefore this approach errs on the conservative side. Therefore if we can insure that the fiber count remains below .01 fibers/cc we can be assured that there are no exposure and cleanup issues. Because this site is dynamic TEM results might give a false sense of safety since the number of asbestos fibers can change depending which construction vehicles travel through the site. In addition, increased winds which move debri from ground zero onto site from different locations can change asbestos count. There is also the consideration of contamination from adjacent areas migrating with rain water. That's why we believe the key is to sustain that the fiber count stay below the clearance level rather than worry about specific asbestos fiber counts. As

you can see from just two days data the fiber count has gone up even as a result of some cleaning. With TEM there would have been a possible increase of asbestos fiber count since our PCM numbers went up in certain areas. We need to be sure that when we move our perimeter in it will stay there.

Currently, sample results indicate the need to continue to remediate the contamination and perform additional sampling for clearance. If after additional cleanup the sampling results are substantially lower than the criteria of .01 fibers/cc we should move to shrink the chambers street perimeter if the other environmental agencies are in agreement. Otherwise we would need to continue to conduct additional air monitoring and cleaning until we achieve this goal. Some of the major problems in cleaning and clearing the area have been in trying to get construction traffic diverted away from the area. In addition, because we cannot get streets closed during cleaning we are forced to move at a slower pace. We were also set back because of new ID requirements for our contractors which will take one to two days to get all personnel the new IDs. I also have been told today that DEP workers will now need to turn in old IDs and need a new ID. This again is going to set us back. I would like to not that Utilities like CON ED and Verizon do not need additional ID from there work ID.

New 50ft perimeter

DERTA is concerned about the proposed 50ft perimeter around ground zero as being the hot zone. Based on our sampling and experience on site we believe it should be set back further. It is a little unclear what 50ft will mean and from what point. However, 50 feet is approximately three car lengths and that seems very impractical from work and safety standpoint.

DOH

We have still not seen the vehicle advisory as promised from DOH. We feel this is a very critical issues and should have been conveyed.

First Response

No major haz mat first response request from the FDNY forward command post. The daily ground zero monitoring for dangerous gases was negative.

Future Progress

DERTA has surveyed other areas inside the perimeter in an effort to target potential sites to be opened. DERTA does not believe that it will be possible to clear any other areas because of the close proximity to ground zero. Major work at ground zero would have to be completed before we could reassess the feasibility of opening another area.

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Park Place and Greenwich	.014 fibers/cc
Murray and Church	.007 fibers/cc
Murray and Greenwich	< .01 fibers/cc

9/23 9/26 - OKay
 .009
 .009
 .007
 <.007

9/24/01

Park Place and church	.007 fibers/cc
Park Place and Greenwich	.012 fibers/cc
Murray and Church	.017 fibers/cc
Murray and Greenwich	.009 fibers/cc

9/25/01

Results expected at 1600hours

101 Murray St.

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DOH

We have still not seen the vehicle advisory as promised from DOH. We feel this is a very critical issues and should have been conveyed.

First Response

No major haz mat first response request from the FDNY forward command post. The daily ground zero monitoring for dangerous gases was negative.

Future Progress

DERTA has surveyed other areas inside the perimeter in an effort to target potential sites to be opened. DERTA does not believe that it will be possible to clear any other areas because of the close proximity to ground zero. Major work at ground zero would have to be completed before we could reassess the feasibility of opening another area.

Greenwich to Broadway between Chambers and Murray

Cleanup work was completed on 9/26/01 at 0800hours in the area from Greenwich to Broadway, between Chambers and Murray. DECON checkpoint on church and chambers has been moved from Murray and church in an effort to reduce loading of air samples from construction vehicles. OEM requested to move construction traffic through Broadway and chambers. Advised that Construction company is responsible to insure no emissions from vehicles occur. At minimum, all loads must be substantial wet down, covered with tarps, and vehicles washed. New perimeter was moved from chambers to murray between Greenwich and Broadway. Air monitoring was conducted in this area to maintain clearance levels. Four air samples were taken in the proposed area each day. All four samples passed clearance level. These results were as follows:

9/28/01

Park Place and church	.009 fibers/cc
Park Place and Greenwich	.009 fibers/cc
Murray and Church	.009 fibers/cc
Murray and Greenwich	.009 fibers/cc

DOH

Anticipating vehicle advisory as promised from DOH shortly.

First Response

DEP haz mat first response request from the FDNY forward command post for suspected exposure of benzene at ground zero during the early morning on 9/29/01. Readings were detected with the Foxboro FID/PID. The highest levels detected on the FID were 210 increments in one localized area on level D in the Verizon Building. Advised to wear organic respirators and notify their safety personnel.

The daily ground zero monitoring for dangerous gases showed normal background levels.

Future Progress

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because of the close proximity to ground zero. Major work at ground zero would have to be completed before we could reassess the feasibility of opening another area.

Perimeter Results

Higher levels were detected closer to ground zero probably due to increased work activity on site. Construction companies have been advised at 0700hours meeting to increase use of water spray to keep dust down. In addition, they were advised to wet down vehicle loads, cover with tarps and decon.

Fulton / Church = 0.059

Warren / North End Ave = 0.009

West Street & Warren = 0.009

NW Gateway Plaza at Park Area = 0.009

South End Ave & Albany = 0.012

West & Albany = 0.02

Rector Place by park = 0.008

3rd Place/West End/Waterside = 0.009

West end of West Thames = 0.009

Park Place & River Terrace = 0.007

River Terrace & Chambers = 0.009

River Terrace & Warren = 0.007

North End Ave & Park Place West = 0.007

Vesey & River Terrace = 0.007

Trinity Place & Thames = 0.036

maldanado, jane (ex)

From: Raffo, Barbara

Sent: Wednesday, September 26, 2001 11:59 PM

To: Avaltroni, Robert; gilsennan, michael (ex); maldanado, jane (ex)

Cc: Kelpin, Gerry



september 26
Update.doc



Here are the
commissioners upd...



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Here are the commissioners update. Commissioner WTC
Update for 9/25-26 Activities

Battery Park City

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North Battery Park City work has begun on the playground area. This includes removal of sand from a large area .

Cleanup also continues on north cove area near the marina.

Working on plan to have roof tops of buildings clean to reduce emissions and prevent recontamination of abated areas. Work will entail extensive rigging and vac trucks. Will discuss plan of action and whether this is something we want to undertake with EPA. Timeframe to complete will be extensive. Dependent on EPA resources.

Greenwich to Bdway between chambers and Murray

Cleanup work continues to be conducted in the area from Greenwich to Broadway,
between Chambers and Murray. We anticipate work to be completed on 9/26/01. Air monitoring was conducted in this area in an effort to move the site perimeter from chambers to murray. Four air samples were taken in the proposed area each day. These results were as follows:

9/23/01

Park Place and church .01 fibers/cc
Park Place and Greenwich .014 fibers/cc
Murray and Church .007 fibers/cc
Murray and Greenwich < .01 fibers/cc

9/24/01

Park Place and church .007 fibers/cc
Park Place and Greenwich .012 fibers/cc
Murray and Church .017 fibers/cc
Murray and Greenwich .009 fibers/cc

9/25/01

Park Place and church .009 fibers/cc
Park Place and Greenwich .009 fibers/cc
Murray and Church .007 fibers/cc
Murray and Greenwich <.007 fibers/cc

9/26/01

results expected at 0900 hours

Data for the last two consecutive days indicate that
air monitoring results have

DOH

We have still not seen the vehicle advisory as
promised from DOH. We feel this is a very critical
issues and should have been conveyed.

First Response

No major haz mat first response request from the FDNY
forward command post.
The daily ground zero monitoring for dangerous gases
was negative.

Future Progress

DERTA has surveyed other areas inside the perimeter in an effort to target potential sites to be opened.

DERTA does not believe that it will be possible to clear any other areas because of the close proximity to ground zero. Major work at ground zero would have to be completed before we could reassess the feasibility of opening another area.

Perimeter Results

Fulton / Church = <0.008
 Warren / North End Ave = <0.008
 West Street & Warren = <0.012
 NW Gateway Plaza at Park Area = 0.008
 South End Ave & Albany = <0.007
 West & Albany = <0.008
 Rector Place = <0.007
 3rd Place/West End/Waterside = <0.007
 West of West Thames = <0.007
 Park Place & River Terrace = <0.008
 River Terrace & Chambers = <0.007
 River Terrace & Warren = <0.007
 North End Ave & Park Place West = <0.008
 Vesey & River Terrace = <0.008
 Trinity Place & Thames = <0.008

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Tue, 25 Sep 2001 21:32:50 PDT
Date: Tue, 25 Sep 2001 21:32:50 -0700 (PDT)
From: M Fawzy <moose132@yahoo.com>
To: Avaltroni <gaspopus@aol.com>, Barbara Raffo <bobrakate@aol.com>
MIME-Version: 1.0
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Subj:

wtc text version

Date:

Wed, 26 Sep 2001 7:46:43 AM Eastern Daylight Time

From:

M Fawzy <moose132@yahoo.com>

To:

Barbara Raffo <bobrakate@aol.com>

Commissioner WTC Update for 9/25-26 Activities

Battery Park City

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Cleanup also continues on north cove area near the marina.

Working on plan to have roof tops of buildings clean to reduce emissions and prevent recontamination of abated areas. Work will entail extensive rigging and vac trucks. Will discuss plan of action and whether this is something we want to undertake with EPA. Timeframe to complete will be extensive. Dependent on EPA resources.

Greenwich to Bdway between chambers and Murray

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 Murray and Church .017 fibers/cc
 Murray and Greenwich .009 fibers/cc

9/25/01

Park Place and church .009 fibers/cc
 Park Place and Greenwich .009 fibers/cc
 Murray and Church .007 fibers/cc
 Murray and Greenwich <.007 fibers/cc

9/26/01

results expected by 1000 hours

Data for the last two consecutive days indicate that air monitoring results have passed clearance levels. DERTA will request that the perimeter be moved. We anticipate other health and environmental agencies will confirm with our request.

DOH

We have still not seen the vehicle advisory as promised from DOH. We feel this is a very critical issues and should have been conveyed.

First Response

No major haz mat first response request from the FDNY forward command post.

The daily ground zero monitoring for dangerous gases was negative.

Future Progress

DERTA has surveyed other areas inside the perimeter in an effort to target potential sites to be opened.

DERTA does not believe that it will be possible to clear any other areas because of the close proximity to ground zero. Major work at ground zero would have to be completed before we could reassess the feasibility of opening another area.

Perimeter Results

Fulton / Church = <0.008
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 West Street & Warren = <0.012
 NW Gateway Plaza at Park Area = 0.008
 South End Ave & Albany = <0.007
 West & Albany = <0.008
 Rector Place = <0.007
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 West of West Thames = <0.007
 Park Place & River Terrace = <0.008
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Park Place and church .009 fibers/cc
 Park Place and Greenwich .009 fibers/cc
 Murray and Church .007 fibers/cc
 Murray and Greenwich <.007 fibers/cc

9/26/01

results expected by 1000 hours

Air sampling results have not passed clearance levels.
 DERTA will continue to monitor until clearance samples pass.

DOH

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Subject: wtc text version
To: Barbara Raffo <bobrakate@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Commissioner WTC Update for 9/27/01:

Deputy Commissioner Avaltroni met with Letitia Remauro and Ann Kutter of the Battery Park City Authority yesterday to discuss the promenade areas that need to be addressed. The areas to be cleaned were identified. EPA will do the cleaning. More sensitive areas will be cleaned by Battery Park City Authority contractors.

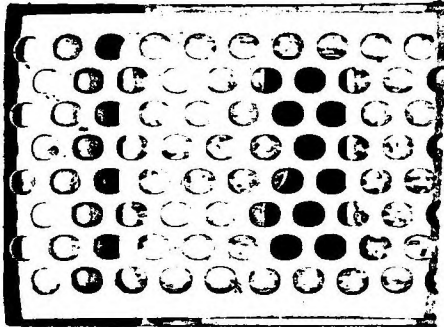
Area located at South End Avenue from Albany Street to the Marina Ramp has not yet been cleaned. Air sampling done in the area on 9/26 & 9/27 resulted in elevated air sample levels. DEP recommends that no public access to the area be permitted until the situation has been addressed.

Brian Peters from Bovis has indicated that trucks will be rerouted to West Street. DEP will request that EPA clean the area tonight.

Building Management was advised that the ledges on the parking garage need to be cleaned of debris. Additionally, the Tower Building at Gateway Plaza Has Broken windows and debris on the building's eastern facade. Wind cause the debris to fall to the ground. DEP recommends that the Building Management address the situation with netting or some similar type of protection.

Air sample levels on the street are expected to remain elevated until cleaning takes place.

Air samples will be performed upon completion of cleaning. When results are satisfactory for 2 consecutive days - DEP can recommend the area be reopened to residents.



9/27/07

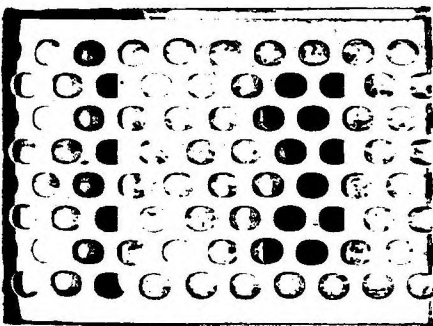
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Park Place & Church 0.050

Church & Murray 0.016

Greenwich & Park Pl 0.014

Greenwich & Murray 2.008



DEF COMMAND CENTER

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Sep 27 '01 13:31

P.01

9/26/01

After initial disagreements with Battery Park City Authority and the ~~the~~ threat of a Commissioners order, a meeting was arranged by DC Avaltroni with Ann Kutter and ~~Leticia~~.

Leticia Renardo. All areas ~~that~~ needed to be ~~addressed~~ ~~in~~ ~~these~~

~~on~~ on the promenade ~~that~~ needed to be addressed were discussed and agreed upon. EPA will be cleaning most of these areas. More sensitive areas will be cleaned by Battery Park City.

(3)

They may be able to put some netting or similar material around the building to prevent debris from falling back down.

Until this is done levels on the street will probably continue to remain high.

Once the street is cleaned we will conduct air monitoring. When results are acceptable for two consecutive days we will be able to open this area to residents.

Brian Peters
9/26/01

9/27/01

South End Ave ~~North of Albany~~
from Albany to Marina ramp.

This area has not yet been cleaned and air sampling done on 9/26/01 shows elevated levels of asbestos.

This area should not be accessed by residents. Brian Peters from Bovis has indicated that construction trucks do not need to use this section of South End Ave. They will restrict trucks to West St,

We will try to get EPA to clean this section of street tonight. We will also need the building management to clean debris from the ledges of the parking garage. Also the tower building at Gateway Plaza with all broken windows on the eastern facade, has a large quantity of debris which periodically cascades to the ground due to high winds in the area. This also needs to be addressed by the building management.

Commissioner WTC Update for 9/27/01:

Deputy Commissioner Avaltroni met with Letitia Remauro and Ann Kutter of the Battery Park City Authority yesterday to discuss the promenade areas that need to be addressed. The areas to be cleaned were identified. EPA will do the cleaning. More sensitive areas will be cleaned by Battery Park City Authority contractors.

Area located at South End Avenue from Albany Street to the Marina Ramp has not yet been cleaned. Air sampling done in the area on 9/26 & 9/27 resulted in elevated air sample levels. DEP recommends that no public access to the area be permitted until the situation has been addressed.

Brian Peters from Bovis has indicated that trucks will be rerouted to West Street. DEP will request that EPA clean the area tonight.

Building Management was advised that the ledges on the parking garage need to be cleaned of debris. Additionally, the Tower Building at Gateway Plaza Has Broken windows and debris on the building's eastern facade. Wind cause the debris to fall to the ground. DEP recommends that the Building Management address the situation with netting or some similar type of protection.

Air sample levels on the street are expected to remain elevated until cleaning takes place.

Air samples will be performed upon completion of cleaning. When results are satisfactory for 2 consecutive days - DEP can recommend the area be reopened to residents.

585-1700

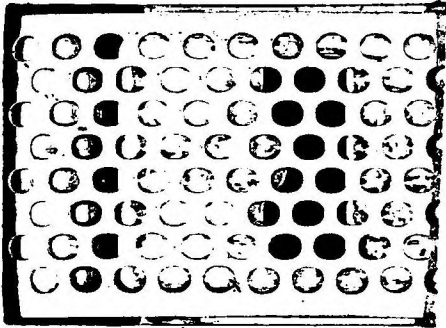
So End Ave
Albany .02
West St
Albany .08
(Battery Park City)
Park St
10 block from debris

Higher Rdgs.
Church / Ph Pl. .02
Church / Murray .041
(load not covered)
re-emphasize to Corps.
COs

other rdgs
Fulton Church .015
Trin Thomas .058
low? when results?
Temporary wind church many
PM Sun

40 Keeler St fence line 10 ft.
Mamot Co. ensuring inside cleaning
not only east south only.

Shower
0600
Mon Morning



9/27/01

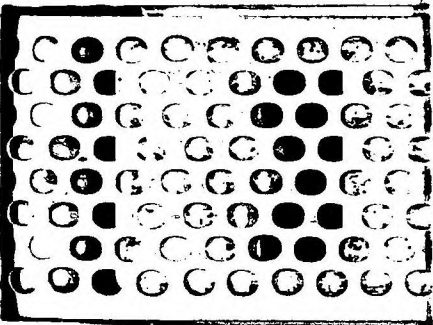
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Paul Place & Church 0.050

Church & Murray 0.016

Greenwich & Paul Pl 0.014

Greenwich & Murray 2.008



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Frequently Asked Questions Related to Air Quality Following the World Trade Center Disaster

I live and/or work downtown. Do I need to be concerned about the air I'm breathing?

Numerous federal, state and local agencies (including the U.S. Environmental Protection Agency, the New York State Departments of Environmental Conservation and Health and the New York City Departments of Environmental Protection and Health) have been working together to monitor air quality within NYC and around the disaster area since 9/11/01 and will continue throughout the period that the work area is being cleaned. Additional monitors are being set up to obtain further information.

Following the collapse of the World Trade Center towers, significant quantities of smoke and dust were released into the air. The plume of smoke contained dust, ash, soot and other burning materials present at the site. Other hazardous materials released into the air include materials such as concrete, gypsum, plastics and fiberglass dusts as well as soot that were released during the explosion and collapse of the towers. From a health perspective, the substances of concern include asbestos and fine airborne particles. Therefore, air tests, to date, have focused on assessing levels of these substances.

Testing since 9/11/01 has revealed that, in general, levels of asbestos and fine airborne particles have been low. Until the WTC area has been cleaned up, air quality will need to be monitored.

What are the most immediate health concerns?

Irritating dusts and gases can worsen medical conditions such as asthma, chronic bronchitis, emphysema, other chronic lung conditions and heart disease. Airborne irritants might also trigger an asthma attack in people who may be susceptible, but who have not had an asthma attack before. The most important concern is however, exposure to asbestos.

What is asbestos and what are its potential health effects?

Asbestos is a naturally-occurring mineral fiber that is resistant to heat. Asbestos has been used in a wide range of manufactured products including building materials such as fireproofing. Asbestos was used in the

construction of parts of the World Trade Center buildings. Asbestos is present in some of the debris at the site and in areas very close to the site.

In workplaces where levels of asbestos exposure are high and persist for many years, health concerns include lung diseases such as asbestosis and cancer. However, when exposures are low and of short duration, the risk of developing an asbestos-related illness such as asbestosis or cancer is extremely low.

What levels of asbestos have been found in the area and how do they compare to health-based standards?

The U.S. and NYC standard for asbestos in community and residential buildings is 0.01 fibers/cubic centimeter (f/cc) in indoor air. For workers, the U.S. Occupational Safety and Health Administration's (OSHA) standard is 0.1 fibers/cc in air.

Sampling for asbestos fibers at the disaster site began on September 11. The EPA is currently sampling at fifteen monitoring locations near the site and in the nearby community, and additional testing is being conducted at other locations by city and state agencies. Results indicate that, as expected, asbestos is present in some of the debris at the site and in areas very close to the site. As of September 21, 2001, most air sampling results near the World Trade Center were below the standards for asbestos in indoor air.

As testing continues, there may be the possibility of occasional short-term increases in levels of asbestos in the air above the residential standard of 0.01 fibers per cubic centimeter of air. Short-term exposures to relatively low levels should not pose a health risk to individuals.

My home and / or office is very dusty. What should I do to clean-up?

For people returning to homes or workplaces refer to the NYCDOH's Advisory Factsheet "Recommendations for People Re-Occupying Commercial Buildings and Residents Re-Entering Their Homes". [posted on their website: www.nyc.gov/health?]

NYC Health Department's clean-up recommendations include:

- All cleaning activities should avoid stirring up the dust and making it airborne.
- Clean with a wet mop or wet rag. Do not sweep with a broom.

- Use a HEPA vacuum, HEPA bags or dust allergen bags with your regular vacuum.
- Keep windows closed when the air outdoors is dusty or smoky.
- Remove shoes before entering your house especially if you've walked through dust or debris.
- Dusty clothing should be bagged and washed separately.
- Clean air-conditioner filter before turning it on.

Is it necessary to have my home or office tested for asbestos?

First, homes or offices should be cleaned of dust and debris by following the recommendations in the NYC DOH's Advisory Factsheet mentioned above. After cleaning, if a home owner or office building manager wants to have an indoor space tested, the environmental services section of the Yellow Pages can be a resource for certified environmental consultants. Consultants should be asked if they are certified to conduct asbestos testing and whether they do indoor air quality tests.

What are fine airborne particles (Respirable Particulate Matter)(PM) in the air?

The explosion at the World Trade Center released fine airborne particles (also called "respirable particulate matter") into the air. Fine particulate matter comes mostly from combustion such as fires, exhaust from cars, trucks, buses and other vehicles, power plants, boilers and other operations that involve the burning of fuel. Particulate matter ranges in size from very small to larger particles. The most commonly measured sizes are PM_{2.5} and PM₁₀. PM_{2.5} refers to particles that are 2.5 microns or less in diameter. These particles are extremely small and therefore more likely to be inhaled deeper into the lungs. PM₁₀ refers to larger particles that are 10 microns or less in diameter, and because of their larger size, do not travel as far into the lungs. Some particulate matter continues to be released from the World Trade Center site.

What are the health risks from fine airborne particles (Particulate Matter)

Increased levels of fine airborne particles can cause eye, nose, throat and lung irritation, which can trigger coughing and sneezing. Such exposures may aggravate symptoms for persons with asthma or other underlying respiratory conditions. Symptoms should diminish once exposure ceases.

Are there air quality standards for Fine Airborne Particles in outdoor air?

Yes. In 1997, the United States Environmental Protection Agency (EPA) recommended National Ambient Air Quality Standards for PM_{2.5}. National Ambient Air Standards are established to be protective of public health. The short-term standard (24-hour or daily average) for PM_{2.5} is 65 micrograms per cubic meter (ug/m³). Generally, levels below the standard are considered to have a low risk of adverse health effects. The long-term standard (annual average) is 15 ug/m³. The short-term standard (24-hour or daily average) for PM₁₀ is 150 ug/m³ and the long-term standard (annual average) is 50 ug/m³.

Are you monitoring for PM_{2.5}?

Yes. The New York State Department of Environmental Conservation (NYS DEC) has had continuous (real-time) air particulate monitors (PM_{2.5}) collecting samples at eleven sites in New York City. These routine monitors are two on Staten Island, three in Manhattan, one in Brooklyn, three in Queens and two in the Bronx. The data from these monitors are evaluated daily. The Environmental Protection Agency is setting up additional monitors to collect particulate data (PM_{2.5} and PM₁₀) in the community near the site.

What are the results of the PM_{2.5} monitoring and how do they compare to the levels measured in air before September 11th?**Routine DEC air monitors:**

Beginning September 11th at 1:00 pm, the daily average standard of 65 ug/m³ for PM_{2.5} has not been exceeded at any of the routine DEC monitoring locations. On most days since September 11, PM_{2.5} levels at each of the monitoring sites have been similar to those measured earlier in September.

How do the monitoring data for PM_{2.5} compare to the standards?**Routine DEC monitoring:**

As of September 26, the highest daily average level of PM_{2.5} was measured at Public School 64 on September 13th. This school is at East 6th Street and Avenue B and is the nearest routine monitoring site to the World Trade Center. The highest daily average at that location was 42.1 ug/m³, which does not exceed the EPA's standard of 65 ug/m³. Daily averages of PM_{2.5} at all the other routine sites were below 35 ug/m³.

the forward command center to evaluate a condition in the verizon building. DERTA determined the gas odor was hydrogen sulfide caused by fill decay or sewer gas in the basement of the verizon building. This condition was then referred to the verizon safety personnel.

DERTA has surveyed other areas inside the perimeter in an effort to target potential sites to be opened. DERTA does not believe that it will be possible to clear any other areas because of the close proximity to ground zero. Major work at ground zero would have to be completed before we could reassess the feasibility of opening another area.

The five boro sample results were normal. The daily ground zero monitoring for dangerous gases was negative.

Air monitoring around the perimeter and in selected areas were as follows:

Park Place & Church	0.01 Fibers/cc
Park Place & Greenwich	0.014 Fibers/cc
Murray & Church	<0.007 Fibers/cc
Murray & Greenwich	<0.01 Fibers/cc
Trinity & Thames	0.013 Fibers/cc
West Street & Albany Street	<0.01
Fulton & Church	0.026
Third place	<0.008
West of Thames st	<0.008
North End ave and Warren	<0.007
North End Ave and Park Pl	<0.007
River Terrace and Vessey	<0.007
West st and Warren	<0.008
Gateway Plaza at Park area	0.02
River Terrace and Warren	0.009
Albany st and South End Ave	<0.007
Rector place	0.029
River Terrace and Park Place	<0.008
River Terrace and Chambers	<0.008

<>

1

Headers

Return-Path: <moose132@yahoo.com>

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Commissioner WTC Update for 9/24 -25/01 Activities**Battery Park City**

South Battery Park areas are still in the cleanup stage. These areas include rector Place Park and playground, various streets and sidewalks, and the promenade. Problems cleaning playground at rector street because of clogged drain have been working hard to get it resolved with no avail.

As you know, Battery Park City has now changed their mind and have requested we clean many more areas which would require a minimum of 10days remmediation. This new work includes areas in North Battery Park, South Battery Park and the cove area between them. It must be clearly explained to Battery Park executives that even with our help they still have areas they must clean and ultimately are responsible to ensure their properties are safe for residents and visitors. There are many areas which are inaccessible by EPA and DEP contractors which they have to address. For instance there are roof tops, open garages, Alcoves, and outside equipment (i.e. HVAC etc). We will continue to assist Battery Park City where we can.

Battery Park Conservancy manager, Bob Serpico indicated on 9/22/01 that he would secure the park at the North Battery Park area until they could conduct samples for clearance. The park was not secured as of 2200 hours on 9/23/01. Various areas along the promenade from vessey street all the way to just south of 1st place remain contaminated. We have prioritized the streets and sidewalk areas followed by the playground and vehicles and lastly the promenade since the Battery Park Conservancy indicated they would handle it.

Battery Park Conservancy has complained about cleanup contractors being to rough with their trees. DERTA advised them to give a list of sensitive areas they would like us not to clean and we will remove them from our list of areas. We advised them it is still there responsibility to ensure it is clean for there residents and public.

Greenwich to Bdway between chambers and Murray

Cleanup work continues to be conducted in the area from Greenwich to Broadway, between Chambers and Murray. Air monitoring was conducted in this area in an effort to move the site perimeter from chambers to murray. Four air samples were taken in the proposed area each day. These results were as follows:

9/23/01

Park Place and church	.01 fibers/cc
Park Place and Greenwich	.014 fibers/cc
Murray and Church	.007 fibers/cc
Murray and Greenwich	< .01 fibers/cc

9/24/01

Park Place and church	.007 fibers/cc
Park Place and Greenwich	.012 fibers/cc
Murray and Church	.017 fibers/cc
Murray and Greenwich	.009 fibers/cc

9/25/01

Results expected at 1600hours

101 Murray St.

Indoor air monitoring indicates it is below clearance levels. Although, it remains inside the site perimeter and outside air has not been cleared, onsite emergency personnel should be able to use this facility.

Other agencies have used TEM Asbestos analysis rather than PCM which is what DEP is using. Because of this they may feel it appropriate to open an area if TEM structures are below background. The problem with this approach is that this is a dynamic location effected by many factors. This approach would work better indoors in an enclosed static environment. The PCM approach looks at the number of fibers in a specific size range rather than asbestos fibers. Therefore this approach errs on the conservative side. Therefore if we can insure that the fiber count remains below .01 fibers/cc we can be assured that there are no exposure and cleanup issues. Because this site is dynamic TEM results might give a false sense of safety since the number of asbestos fibers can change depending which construction vehicles travel through the site. In addition, increased winds which move debri from ground zero onto site from different locations can change asbestos count. There is also the consideration of contamination from adjacent areas migrating with rain water. That's why we believe the key is to sustain that the fiber count stay below the clearance level rather than worry about specific asbestos fiber counts. As

As the name implies, the annual average standard is based on a year of measurements and, therefore, it is not appropriate to use this standard in evaluating the data collected since the disaster. However, because the data from all eleven sites are consistent with historic data there is no reason to expect this event will elevate the annual average very much.

Should I be concerned about my car if it was parked in the disaster zone?

If your car was parked downtown during the blast on 9/11/2001 it is possible it may have sustained some structural damage and could be very dusty, both inside and outside. Once activity is no longer restricted in the disaster zone, it will be safe to remove your car from the area. If your car sustained structural damage from the blast, have your car towed from the area. Otherwise, you can drive your car out of the area. If you would like to take precautions to minimize your exposure to dust, recommended actions include: Wear a dust mask while driving your car to a place for cleaning. Wash the exterior of your car, use a HEPA vacuum to clean the inside, and have an auto mechanic inspect the heater and air conditioning system prior to using these systems.

Should I be concerned about fiberglass in air due to the World Trade Center disaster?

Fiberglass is the trade name for a manmade mineral fiber that also may be called fibrous glass or glass wool. Fiberglass can be found in many different consumer products. In the past it was used for home furnace filters and insulation. Today it is used to insulate pipes and appliances, for sound control in aircraft and automobiles, and in curtains, roofing materials and reinforced plastics.

Fiberglass was most likely used in the construction of the World Trade Center. It has been detected in run-off from the disaster site, suggesting it may have been released during the buildings' collapse. However, air samples taken in and around the World Trade Center site can detect fiberglass if it is present. Extensive air monitoring to date has indicated that fiber concentration in air (including asbestos, fiberglass and cellulose) are low.

What health effects may be associated with short-term exposures to fiberglass particles in air?

Occupational exposure to fiberglass fibers may cause skin irritation and itching because it can get into the skin. It may also cause upper respiratory tract irritation and may aggravate asthma or bronchitis. These are temporary conditions and are unlikely to occur for people in the community given the low concentrations of fibers in the air in general around the WTC disaster area.



New York City Department of Health Response to the World Trade Center Disaster

Public Health Advisory Concerning Air Quality in the Affected Area of the World Trade Center Disaster

The NYC Department of Health (DOH), in collaboration with the City, State, and Federal agencies, is closely monitoring and analyzing air quality data in the wake of the World Trade Center disaster. Following the collapse of the Twin Towers, significant quantities of smoke and dust have been released into the air. The plume of smoke contained dust, ash, soot, and other burning materials present at the site.

In general, dusts can cause respiratory symptoms and eye and throat irritation. Because dust will continue to remain in the air during the ensuing clean-up efforts following the World Trade Center disaster, residents in the vicinity of the World Trade Center are encouraged to take precautions when they return to their homes.

What are the Recommendations for Residents Living in Lower Manhattan?

All residents in the immediate vicinity of the World Trade Center - particularly those who live the area bounded by Warren Street to the North, Broadway to the East, the Hudson River to the West, and Exchange and Thames Streets to the South - should take the following precautions when they return to their homes:

- Avoid unnecessary outdoor strenuous activity;
- Avoid sweeping or other outdoor maintenance;
- Keep dust from entering the home (e.g., remove shoes before entering the home);
- Keep windows closed;
- Set the air conditioner to recirculate air (closed vents), and clean or change the filter frequently;

What should I do if I experience respiratory symptoms?

Dust and other particulate matter have the greatest impact on persons with underlying respiratory conditions. Such individuals may experience chest tightness, wheezing, and shortness of breath. Anyone who has difficulty breathing should consult their physicians, especially those with underlying respiratory conditions. People with asthma may need to increase their usual medical treatment with more frequent use of bronchodilators, and should consult their physicians if necessary.

If I experience any eye irritation what should I do?

Ocular saline solutions or tap water may be used to rinse eyes irritated by dust. All persons should avoid wearing contact lenses while in the affected area.

What are the health effects of asbestos?

Destruction of the World Trade Center buildings released large amounts of dust and ash, some of which

contained trace amounts of asbestos. Based on the asbestos test results received thus far, the general public's risk for any short or long term adverse health affects are very low. Residents who live near the affected area are not at risk of developing asbestos-related illness following the collapse of the World Trade Center buildings.

In general, asbestos-related lung disease general results only from intense asbestos exposure experienced over a period of many years, primarily as a consequence of occupational exposures. The risk of developing an asbestos-related illness following an exposure of short duration is very low.

What measures are being taken to protect the rescue workers?

Rescue workers have been equipped with half-face masks, goggles, and protective clothing to reduce their exposure to dust and other particulate matter while working in the blast zone.

How can I clean up dusts in or near my home or office?

The best way to remove dust is to use a wet rag or wet mop. Sweeping with a dry broom is not recommended because it can make dust airborne again. Dirty rags should be put in plastic bags while they are still wet and bags should be sealed and discarded (cloth rags can be washed, see instructions below). Rags should not be allowed to dry out before bagging and disposal or washing. Because the dust particles are so small, standard vacuuming is not an efficient way to remove the dust. High efficiency vacuums, which are now widely available in stores, should be used to remove dust. Carpets and upholstery can be shampooed, then vacuumed.

Persons should shower to rinse off any dust from hair and skin. Dusty clothes should be washed separately from other clothing. Pets can be washed with running water from a hose or faucet; their paws should be wiped to avoid tracking dust inside the home. To clean plants, rinse leaves with water. Throw away any food that may have been contaminated with dust. Food in cans, jars or containers with tight-fitting lids do not need to be discarded. However, if there is dust present on the exterior of vacuum-sealed food containers, just wash the can or jar with water and wipe it clean. **If in doubt, throw it out.**

Air purifiers may help reduce indoor dust levels. High efficiency air purifiers are superior to other models in filtering the smallest particles. Air purifiers are only useful for removing dust from the air. They will not remove dust already deposited on floors, shelves, upholstery or rugs. Keep windows closed when using an air purifier.

Do pregnant women and young children need to take additional precautions?

No. Pregnant women and young children do not need to take additional precautions.

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New York City Department of Health Response to the World Trade Center Disaster

Recommendations for Motorists in the Area Affected by the World Trade Center Disaster.

This Useful Information was Provided to the New York City Department of Health by the American Automobile Association

Motorists living near the World Trade Center disaster site will face some challenges getting their cars going after being subjected to the extreme levels of dust, dirt and soot in the area. The following tips are suggested:

- Before starting the vehicle try to clean it as thoroughly as possible. Using a hose or repeated uses of a bucket, douse the vehicle with water to remove as much standing dirt as possible. Do not use a rag, brush or any scrubbing action. These will grind the abrasive dirt into the paint, ruining it. Only the physical action of the moving water should be used to remove heavy dirt. Then use very soapy water to wash the car. When clean, swirling patterns may be noticed in the finish if the vehicle was subjected to very heavy exposure. A professional compound job available at most auto shops should restore the luster.
- Inspect the vehicle's interior for heavy dust and dirt. If it was badly exposed, before starting the vehicle, vacuum the interior thoroughly, paying extra attention to the dashboard and vents, particularly if the vehicle is a '98 or newer model. New cars have lots of computer and electronic devices for controlling various functions located behind the dash that could be damaged by heavy dust. (For this reason owners of newer vehicles should not smoke in their cars.)
- Inspect the engine compartment under the hood of the vehicle. If it is very dusty, vacuum this area as well, paying close attention to the air intake, which can usually be identified as a bellows type of hose. If possible, disconnect the hose and vacuum it.
- If the vehicle received extremely heavy exposure, after vacuuming you should change the air filter taking care not to dislodge any remaining dirt so that the engine might be contaminated. Inspect hoses, belts and pulleys for dirt and try to clean them as much as possible.
- Check the oil and coolant level before starting the engine. Also make sure the battery's terminals are clean. Dirty terminals create extra resistance, putting more strain on the battery, which could be low since the vehicle has not run for some time.
- Check tire pressure and add air if necessary, according to the vehicle manufacturer's specifications.
- When starting the vehicle, do not race the engine. Let it idle about five minutes. Observe the

tailpipe to see if any strange looking vapors or material spew out. The engine may have ingested some dirt that will be discharged when first started. If strange noises are heard or smoke seen, shut the vehicle off and call a professional mechanic to inspect it.

- Drive the vehicle slowly at first to make sure it's operating correctly. If so, take the vehicle on a highway so the force of the air can help flush dust and dirt from under the hood and other areas. Only then should the ventilation system be used, first in the recirculation mode to prevent underhood dust from entering the passenger compartment. After five or ten minutes, switch the ventilation system to bring in outside air.
- As soon as possible, change the oil and oil filter. Any dust or dirt that may have entered the engine will settle in the oil, which must be removed to prevent internal engine damage.

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To: Comm. Aviation;
Fax: x4544

Commissioner WTC Update for 10/1/01

Battery Park City

South Battery Park areas are still in the cleanup stage. These areas include various streets and sidewalks, parking lots, ball fields and the promenade.

North Battery Park City work began cleaning the playground area. This includes the removal of sand from a large area. Currently, it is scheduled to be completed by Tuesday night.

Cleanup also continues on the north cove area near the marina.

Completed inspections of roof tops of buildings. Cleanup work will entail extensive rigging and use of vac trucks. Discussed plan of action and whether this is something we want to undertake with EPA. Timeframe to complete will be extensive. EPA has passed on this issue to the Army Corp of Engineers. Does not look to positive.

**375 South end ave
Lefrak building**

Courtyard cleanup complete. Work on façade of gateway plaza tower(600) continues into Tuesday morning. Residents should not be allowed in without protection until façade debris is removed from gateway tower. Lefrak was also notified that garage façade and inside areas must be cleaned otherwise they will spread contamination in the immediate area.

4 Financial Center

Inspection of building revealed contamination of lobby areas, restaurant and several bars. Some windows blown out on façade facing south. Will put outside areas on list for cleanup as priority. Building owner responsible for all inside areas, façade and roof top. Building management has all ready secured perimeter of building and has begun cleanup work.

Perimeter Results

Higher levels were detected closer to ground zero probably due to increased work activity on site. TEM analysis will be performed on samples with levels well above clearance to ensure perimeter is intact.

10/1/01

Fulton / Church = 0.035

Warren / North End Ave = 0.007

West Street & Warren = 0.009

NW Gateway Plaza at Park Area = 0.009

South End Ave & Albany = 0.009

West & Albany = 0.012

Rector Place by park = 0.009

3rd Place/West End/Waterside = 0.008

West end of West Thames = 0.009

Park Place & River Terrace = 0.008

River Terrace & Chambers = 0.007

River Terrace & Warren = 0.007

North End Ave & Park Place West = 0.007

Vesey & River Terrace = 0.009

Trinity Place & Thames = 0.015 and on 9/31/01=.076

Greenwich to Bdway between chambers and Murray

Cleanup work was completed on 9-25/01 at 0800hours in the area from Greenwich to Broadway, between Chambers and Murray. Advised that Construction company is responsible to insure no emissions from vehicles occur. At minimum, all loads must be substantially wet down, covered with tarps, and vehicles washed. Air monitoring was conducted in this area to maintain clearance levels. Four air samples were taken in the proposed area each day. All four samples passed clearance level. These results were as follows:

10/1/01

Park Place and church	.009 fibers/cc
Park Place and Greenwich	.009 fibers/cc
Murray and Church	.009 fibers/cc
Murray and Greenwich	.009 fibers/cc

DOH

Received draft vehicle advisory as promised from DOH. Made comments and returned.

First Response

First Response personnel Fawzy and Haas made entry with FDNY and ESU into a new un chartered area in the southwest corridor below the trade center. DEP provided real time monitoring for vital support gases in the environment and took air and water samples for further analysis. Investigation of the stability of the slurry wall was performed by engineers. Dep took samples of water intrusion to determine if it is possibly from the river. Additionally, air and water samples were taken to check for R22 refrigerant. An attempt was made by rafts to try to get through a flooded area to the freon tanks to assess there condition but was unsuccessful because of debri in the pathway.

The daily ground zero monitoring for dangerous gases showed normal background levels.

Future Progress

DERTA has surveyed other areas inside the perimeter in an effort to target potential sites to be opened. DERTA does not believe that it will be possible to clear any other areas because of the close proximity to ground zero. Major work at ground zero would have to be completed before we could reassess the feasibility of opening another area.

Commissioner WTC Update for 10/2/01

Battery Park City – Lefrak's Gateway Plaza Complex

We continue to provide clean up instructions to contractors and management of Lefrak facility. Mr. LeFrak continues to make overtures to OEM and PD with respect to the opening of South End Avenue from Albany Street North. At this time, a DeCon facility still exists at Albany Street prohibiting area to be opened for public access. Unfortunately, the proximity to ground zero makes it very difficult to maintain the appropriate air clearance levels for public access.

We will continue to monitor the situation and advise OEM as needed.

Greenwich to Bdway between chambers and Murray

Cleanup work was completed on 9/26/01 at 0800hours in the area from Greenwich to Broadway, between Chambers and Murray. Advised that Construction company is responsible to insure no emissions from vehicles occur. At minimum, all loads must be substantially wet down, covered with tarps, and vehicles washed. Air monitoring was conducted in this area to maintain clearance levels. Four air samples were taken in the proposed area each day. All four samples passed clearance level. These results were as follows:

10/2/01

Park Place and church	.007 fibers/cc
Park Place and Greenwich	.008 fibers/cc
Murray and Church	.007 fibers/cc
Murray and Greenwich	.008 fibers/cc

DOH

Received draft vehicle advisory as promised from DOH. Made comments and returned.

First Response

First Response personnel Fawzy and Haas made entry with FDNY and ESU into a new un chartered area in the southwest corridor below the trade center. DEP provided real time monitoring for vital support gases in the environment and took air and water samples for further analysis. Investigation of the stability of the slurry wall was performed by engineers. Dep took samples of water intrusion to determine if it is possibly from the river. Additionally, air and water samples were taken to check for R22 refrigerant. An attempt was made by rafts to try to get through a flooded area to the freon tanks to assess there condition but was unsuccessful because of debri in the pathway.

* Analytical lab results indicate the presence of sea water in the samples. The FDNY Office of Chief Bob Ingraham has been notified of the results.

The daily ground zero monitoring for dangerous gases showed normal background levels.

Future Progress

DERTA has surveyed other areas inside the perimeter in an effort to target potential sites to be opened. DERTA does not believe that it will be possible to clear any other areas because of the close proximity to ground zero. Major work at ground zero would have to be completed before we could reassess the feasibility of opening another area.

Perimeter Results

Higher levels were detected closer to ground zero probably due to increased work activity on site. TEM analysis will be performed on samples with levels well above clearance to ensure perimeter is intact.

10/2/01

Fulton / Church = 0.019

Warren / North End Ave = 0.009

West Street & Warren = 0.009

NW Gateway Plaza at Park Area = 0.008

South End Ave & Albany = 0.008

West & Albany = 0.009

Rector Place by park = 0.008

3rd Place/West End/Waterside = 0.008

West end of West Thames = 0.009

Park Place & River Terrace = 0.007

River Terrace & Chambers = 0.007

River Terrace & Warren = 0.007

North End Ave & Park Place West = 0.009

Yesey & River Terrace = 0.009

Trinity Place & Thames = 0.016; on 10/01=0.015; on 9/31/01=.076

Commissioner WTC Update for 10/2/01

Battery Park City

South Battery Park areas are still in the cleanup stage. These areas include various streets and sidewalks, parking lots, ball fields and the promenade.

Completed inspections of roof tops of buildings. Cleanup work will entail extensive rigging and use of vac trucks. Discussed plan of action and whether this is something we want to undertake with EPA. Timeframe to complete will be extensive. EPA has passed on this issue to the Army Corp of Engineers. Does not look to positive.

375 South end ave Lefrak building

Courtyard cleanup complete. Work on façade of gateway plaza tower(600) continues into Tuesday morning. Residents should not be allowed in without protection until façade debris is removed from gateway tower. Lefrak was also notified that garage façade and inside areas must be cleaned otherwise they will spread contamination in the immediate area.

*Battery Park City misinformed their tenants by posting signs in Gateway Plaza complex informing residents that all questions concerning health and reoccupancy should be directed to Paul Bennett at Pier 92. Per the memo dated 10/2 from OEM, all questions concerning environmental issues will be directed to the EPA which is now the lead agency on these issues.

*OEM & DEP to meet at 6:45am on 10/2 to give OEM representative a tour of Gateway Plaza. Owners of Gateway Plaza no longer want to maintain their agreement in having tenants enter the complex through the promenade via SouthEnd Ave. and Albany Street. This access way was cleaned and cleared for the public access to the Gateway Plaza. On 10/2, Battery Park City owners have cordoned off the promenade from entry to their tenants according to DERTA and DEP OEM observation. In addition, they have been giving access through Liberty and South End Ave which has not been cleaned and is at ground zero. DEP will identify the issues to OEM and maintain its position in permitting public entry only through the areas that have been cleaned and cleared. In addition, OEM will be advised that consideration of moving the decontamination wash station and checkpoint at South End Ave and Albany is inadvisable. Such a move will open Battery Park City South to recontamination with asbestos containing debris. OEM will be advised of the 10/2 memo issued from their office now identifying the EPA as the lead agency on these issues.

4 Financial Center

Inspection of building revealed contamination of lobby areas, restaurant and several bars. Some windows blown out on façade facing south. Will put outside areas on list for cleanup as priority. Building owner responsible for all inside areas, façade and roof top. Building management has all ready secured perimeter of building and has begun cleanup work.

It is our understanding that you are paying for building (Merrill Lynch) scheduled for 10/22.

Greenwich to Broadway between Chambers and Murray

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Comm. daily
updates

Commissioner WTC Update for 10/2/01

Subs. Luted

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North End Ave & Park Place West = 0.009

Yesey & River Terrace = 0.009

Trinity Place & Thames = 0.016; on 10/01=0.015; on 9/31/01=.076

Friday September 21: AM Report from HazMat Mobile Lab

- **Results of Air Testing:**
 1. Murray/Church = $<.007$ fibers/cc
 2. Greenwich/Murray = $<.01$
 3. Fulton /Church = $<.007$
 4. Warren/North End Ave = $<.007$

*All results good.
Bob A
9/21 AM*

NW Gateway Plaza = .009
South End Ave & Albany = $<.007$
South End Ave & Thames = .01
Rector & Park Place = $<.007$
West Thames by Water = $<.009$
Chambers & River Terrace = $<.011$
River Terrace & Park Place West = $<.011$
North End Ave & Park Place West = $<.007$
Vesey & River Terrace = $<.007$
River Terrace & North End Ave = $<.011$
West Side End of 3rd Place = $<.011$

**BUREAU OF ENVIRONMENTAL COMPLIANCE
SEPTEMBER 20, 2001 – 10 AM**

- **Air Quality: See attached**
- **We are getting many calls with respect to re-occupancy and are working as closely as possible with building owners and the contractors to effectively expedite necessary measures. However, some of the buildings that have been highlighted including 100 Church, 40 Rector, etc., show significant problems requiring clean-up efforts that will take much time. We have been to all locations in the area (ground zero, perimeter, etc.) and have seen the devastation and significant work to be done as we move to recovery.**
- **We have had a dialogue with the DOH as previously suggested and are awaiting a script to disseminate to our Help Line so we may have one voice in speaking to air quality questions and concerns.**
- **We are also attempting to work diligently with EPA in all efforts and are running into what was considered to be anticipated problems in an effort as huge as the one we are confronted with. These communication problems have come about due to the number of individuals at various points of the process, and at various stages of the process, that came to offer us assistance. We will work through these anticipated problems and attempt to convey that same "one voice" message to the people of our City to avoid confusion and concerns**

Thursday September 20: AM Report from HazMat Mobile Lab

- **Results of Air Testing:**

1. Murray/Church = .014 fibers/cc
2. Greenwich/Murray = <.008
3. Fulton /Church = .02
4. Warren/North End Ave = < .007

South Side Battery Park City

NW Gateway Plaza .01
South End Ave & Liberty = .013
West & Albany = .05
Rector & Park Place = .007
3rd Place & Battery Place
West Thames by Water = .007

North Side Battery Park City

Chambers & River Terrace = .012
River Terrace & Park Place West = .007
North End Ave – 1 block North of Vesey = .012
North End Ave & Park Place West = .050
Warren & West = .03
Vesey & River Terrace = .012

September 17, 2001: Bureau of Environmental Compliance

1 P.m.,

- Styvesant High School: We are ready to assist the Board of Ed with respect to expediting clean-up activities as soon as the rescue efforts are aborted or redesignated. We are told that they have identified a contractor who is ready to commence activity immediately.
- 100 Gold Street: Clean-up at 100 Gold Street has been underway and we anticipate re-occupying by Tuesday morning.
- Battery Park City: We have observed the site and are attempting to meet with the building owners to assist in clean-up efforts for expedited re-occupancy.
- We are meeting and working with EPA and DEC with respect to additional air monitoring at various locations in the city. We will keep all parties apprised of our collaborative efforts.

Monday September 17: 6 AM Report from HazMat Mobile Lab

- **Results of Air Testing:**
 1. Murray/Church = .03 fibers/cc SW corner
 2. Fulton/Church = .03 SW corner
 3. Greenwich/Murray = .013
 4. Murray bet. Church and B'way = .052
 5. Fulton bet. Church and B'way = .027
 6. Vesey bet Church and West B'way = .024
 7. SE Washington & Park Place = .038
 8. City Hall = before clean-up 2nd floor = west wing .022
1st floor blue room .011
 9. 100 Gold Street =Lobby = .006
9th Floor = .004 (DCAS will complete clean-up of bldg interior w/ DEP supervision)
- **9 AM Meeting with OEM:** HazMat will be meeting with OEM and other agencies this morning to discuss 24 hour response in the Hotspot. DEP will be taking the lead role.
- **Stuyvesant High School:** Will look at the feasibility of relocating temporary emergency personnel and their equipment (will report back later this morning or early afternoon). HazMat will assess cleanup of school and also will begin to look at residential buildings in Battery Park City.

will fire

Contractors have completed clean-up of City Hall Park and Park Row.

- **Derelict Vehicle Update:**

Thus far, all derelict and towed vehicles have been moved to 2 locations:

1. Pier 76 (between 34 & 35 Streets)
2. Market Slip (under FDR). (Total of 50 Vehicles at both sites)

EPA has given high priority to the cleaning of the 50 vehicles located at the above listed locations (should be completed by late Sunday).

A central site has been identified for the cleaning of the vehicles still located inside the hotspot. All vehicles being taken out will have to be funneled through **Warren and West Streets** where the National Guard using power washers will do gross decons of the vehicles. This includes vehicles transferring debris to the Fresh Kill Landfill and any other transfer stations or points of destination.

Update on Asbestos Air Monitoring Samples in the Boroughs: (see attachment).

DEP & Fire Department Hazmat: DEP's Hazmat has been working with Fire Department Hazmat and has offered our services and assistance with any and all training and response needs. Moustafa Fawzy has been working closely with Captain Doherty and has assured FDNY's Hazmat of our complete cooperation and assistance at this difficult time.

NYC DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF ENVIRONMENTAL COMPLIANCE

RESULTS OF ASBESTOS AIR MONITORING

No	Date	PS 314K 330 59th Street, Bk	IS 155 Jackson & E 148, BX	PS 64 600 East 6th Street, MN	PS 199 30-20 48th Street, Qn	Susan Wagner H. S. 1200 Manor Road, SI
1	09/14/01	0.003 f/cc	NA	< 0.001 f/cc	0.002 f/cc	0.005 f/cc
2	09/14/01	0.003 f/cc	NA	0.002 f/cc	0.002 f/cc	0.004 f/cc
3	09/15/01	< 0.001 f/cc	0.003 f/cc	0.002 f/cc	< 0.001 f/cc	< 0.001 f/cc
4	09/15/01	< 0.001 f/cc	0.003 f/cc	0.003 f/cc	0.002 f/cc	< 0.001 f/cc
5	09/15/01	< 0.001 f/cc	< 0.001 f/cc	< 0.001 f/cc	< 0.001 f/cc	< 0.001 f/cc
		REGULATORY LIMIT 0.01 f/cc				

Sunday September 16: 6 AM Report from HazMat Mobile Lab

*****Update to Sept. 16 – 6 AM Report: The perimeter of the hotspot remains the same as it was yesterday:**

**North: Warren Street
East: Broadway
South: Exchange Place
West: Hudson River**

- **Results of Air Testing:**

1. Murray/Church = .022 fibers/cc NW corner
 2. Fulton/Church = .034 SW corner
 3. Liberty/Church = replaced w/ B'way /Liberty .0082
 4. Trinity/Cedar = replaced with B'way/Cedar = .033
 5. Church/Dey = danger zone
 6. Park Place/Greenwich = .076
 7. Greenwich/Murray = .031
 8. Murray bet. Church and B'way = .0124
 9. Fulton bet. Church and B'way = .035
 10. B'way and Murray = .045
 11. Vesey bet Church and West B'way = .035
- (10 & 11 – represent 2 additional sites)**

- **Update on HEPA Vacuuming of Financial District:**

Clean-up continued through the night at financial district and Wall Street area. There is a problem vacuuming to the west of B'way, the noise created by the machine interfered with the rescuers activities. A Deputy Inspector from the Police Department halted activity west of Broadway.

EPA contractors will begin clean-up of City Hall Park and Park Row sidewalks at 7AM this morning.

- **Derelict Vehicle Update:**

Thus far, all derelict and towed vehicles have been moved to 2 locations:

1. Pier 76 (between 34 & 35 Streets)
2. Market Slip (under FDR). (Total of 50 Vehicles at both sites)

EPA will HEPA vac dirt and debris at these two sites.

Another site to be established on the south side of the Hot Zone for vehicles that are to be taken out of the hot spot (Washington & Carlisle this not yet confirmed).

Legal Issues have arisen regarding the contractors liability regarding the cleaning of debris ridden vehicles. Mark Hoffer and Charles Sturcken have been consulted and are attempting to work out the details.

- **Freon Update: EPA took airbag sample from shaft and used HazMat's equipment in the mobile lab to test the sample. They were testing specifically for Freon R22 and the results were zero.**

September 15 AM Report from HazMat Mobile Lab:

- **The north and east sides of the perimeter have been reduced:**

Northbound: Warren Street

Eastbound: Broadway

(Yesterday's north border was Worth Street and east border was Nassau Street)

The south and west perimeters remain the same, (Exchange Place and the Hudson River).

- **Results of Air Testing:**

1. Murray\Church = .008 fibers/cc
2. Fulton\Church = .007
3. Liberty\Church = .02
4. Trinity\Cedar = .027
5. Church\Dey = .007
6. Park Place\Greenwich = .009
7. Greenwich\Murray = .003
8. Murray between Church & B'way = .002
9. Fulton between Church & B'way = .01

- Clearance Level = .01 clean-up inside building
OSHA level = .1 fiber/cc
- Contractor hired by EPA is HEPA vacuuming the Financial Streets and sidewalks starting at Broadway and Water Streets and continuing to Pine and Whitehall Streets. Upon completion, if they decide to continue, they will begin to the West of Broadway.

Current HazMat Operations

9/13/01 3:00 p.m.

Air Sampling in and around zone

Currently DEP's HazMat Unit in conjunction with US EPA are using HazMat Field Survey instruments to monitor for classes of chemicals that may be emitted from the site. In addition, these instruments are monitoring for explosive atmospheres in and around the site. This is standard HazMat protocol for possible contaminated sites. Today is the first chance that HazMat and US EPA were able to conduct this joint effort because the level of particulates in the ambient air has subsided. (Particulates skew the reading of the instruments.)

Saturday, September 22, 2001: Daily Update

Report from Bureau of Environmental Compliance

Results of Air Testing:

Murray/Church = <.007

Greenwich/Murray = <.009

Fulton /Church = <.008

Warren/North End Ave = <.007

South Side Battery Park City

NW Gateway Plaza = .014

South End Ave & Albany = <.007

West & Albany = <.011

Rector Place = <.007

3rd Place & Battery Park = .009

West Thames by Water = .008

North Side Battery Park City

Chambers & River Terracc = <.007

River Terrace & Park Place West = <.007

North End Ave - River Terrace = .02

North End Ave & Park Place West = <.007

Murray & West = .01

Vesey & River Terrace = <.007

Battery Park City:

Update on Friday Night/Saturday Morning Clean-Up:

- All the main walkways and streets which allow access to buildings have been cleaned.
- Contractors are working on parks, gardens and common areas.
- Public has no access to areas that still need to be cleaned.
- Work is on-going on Albany Street, West of South End Ave.
- Contaminated cars at Pier 76 will be powerwashed by EPA.
- Anticipate the South Promenade will be cleaned by late this afternoon.

- HEPA vacuuming to be done this evening after 10PM between Chambers & Murray and Greenwich and Broadway.

Re-Occupancy of DCAS\City Owned Buildings:

The following was reported by DCAS Deputy Commissioner Joe Wagner: Any other questions regarding DCAS\City Owned building can be directed to DC Wagner's office (212) 380-2670

- Work as described in the re-occupancy checklist has been completed.
- Asbestos bulk and Air Samples have all produced satisfactory results.
- Duct work has been completed .. however Window Air Conditioning Units have not been completed. Notices have been posted instructing staff not to use window AC's.
- October 1, is the anticipated date of completion for work.
- All Buildings have been checked twice (by both private & City) for structural stability and all have been certified as safe.
- 280 Broadway: Roof which was in the process of being replaced prior to WTC collapse was found to be stable with no debris.
- Ground Zero Buildings still affected by odors include 253 Broadway and the Municipal Building.
- Some phone service is still interrupted, elevator service in buildings is operable.

Results of Air Testing:

Murray/Church = .01
Greenwich/Murray = <.01
Fulton /Church = .008
Warren/North End Ave = <.009
West Street & Warren = <.01

NW Gateway Plaza at Park Area = .01
South End Ave & Albany = <.007
West & Albany = <.01
Rector Place = <.007
3rd Place/West End /Waterside = <.007
West of West Thames = <.008

Park Place & River Terrace = <.007
River Terrace & Chambers = .009
River Terrace & Warren = <.01
North End Ave & Park Place West = <.007
Vesey & River Terrace = <.007

101 Murray – Inside Building 6th Floor < .003
10th <.003
Lobby.003
2nd Floor <.003

Additionally, Air Monitoring continues in the WTC perimeter as well as in the 5 boros. All testing has resulted in normal background levels. Ground zero Monitoring results also indicate normal background levels.

Update on Saturday Night/Sunday Morning Clean-Up:

DEP recommends that DOH needs to convey the importance of properly evaluating the properties in and around Battery Park City. Careful evaluation of the properties will result in limiting human exposure & liabilities. DEP believes that Battery Park City's premature statement that the area was ready for reoccupancy had an adverse effect which resulted in much needed resources getting pulled from the area. EPA has expressed similar

concerns. DEP representatives spoke with Bob Serpico Of Battery Park City and reminded them of their responsibility to ensure that all areas are cleaned properly.

Last evening HazMat met with Paul Bennet & Kelly McKainney of DOH regarding issuing an advisory. DOH agreed to issue advisory regarding Vehicles.

- DEP is cleaning Rector Place at the Battery Park City's request
- DEP recommended that Battery Park City's sand be removed from sandboxes. Battery Park City will have independent testing done with regard to sand removal.
- Air Monitoring conducted at Battery Park North & South resulted in questionable borderline clearance levels most likely due to remaining contaminated areas. Results at Gateway Plaza, At West Street and Albany Street were = .01
- Cleanup continues on remaining areas
- Contractors are working on parks, gardens and common areas.

Occupancy of 101 Murray Street: FDNY wants to use as a resting Area. There are 3 Issues:

1. Building is inside the perimeter, therefore respiratory protection is required.
2. Area outside the building has not been remediated (2 days minimum cleanup time needed)
3. Construction Vehicle traffic on-going.

DC Chapin advised Fred Covina of Deputy Mayor Lhota's office of the issues. Air Monitoring results conducted on four floors inside the building were below clearance levels.

Perimeter Cleanup

Powerwashing and vacuuming will continue from Chambers to Murray between Greenwich and Broadway. Resources were pulled from Battery Park South to aid in cleanup effort. Anticipated completion time = 2 days.

HazMat anticipates that 2 more days of Air Monitoring are needed before exclusion zone can be moved from Chambers to Murray.

Paul Bennet will determine whether construction traffic can be moved to Park Place and if a vehicle decon station can be established.

Commissioner WTC Update for 9/23/01 Activities

South Battery Park areas are still in the cleanup stage. These areas include rector Place Park and playground, various streets and sidewalks, and the promenade.

Battery Park Conservancy manager, Bob Serpico indicated on 9/22/01 that he would secure the park at the North Battery Park area until they could conduct samples for clearance. The park was not secured as of 2200 hours on 9/23/01. Various areas along the promenade from vessey street all the way to just south of 1st place remain contaminated. We have prioritized the streets and sidewalk areas followed by the playground and vehicles and lastly the promenade since the Battery Park Conservancy indicated they would handle it.

Cleanup work continues to be conducted in the area from Greenwich to Broadway, between Chambers and Murray. Air monitoring was conducted in this area in an effort to move the site perimeter from chambers to murray. Four air samples were taken in the proposed area. Two samples were found to be borderline at the clearance criteria of .01 fibers/cc. One sample was found to be above the criteria. The remaining sample was found to be below the cleanup criteria. These results were as follows:

Park Place and church	.01 fibers/cc
Park Place and Greenwich	.014 fibers/cc
Murray and Church	.007 fibers/cc
Murray and Greenwich	< .01 fibers/cc

Sample results indicate the need to continue to remediate the contamination and perform additional sampling for clearance. If after additional cleanup the sampling results are substantially lower than the criteria of .01 fibers/cc we should move to shrink the chambers street perimeter if the other environmental agencies are in agreement. Otherwise we would need to conduct additional air monitoring and cleaning until we achieve this goal.

On 9/24/01 we will continue outdoor remediation of the proposed area and believe it will be completed sometime on Tuesday afternoon. We have still not seen the vehicle advisory as promised from DOH.

At 2200 hours DERTA was requested by FDNY to report to

Commissioner WTC Update for 9/23/01 Activities

South Battery Park areas are still in the cleanup stage. These areas include rector Place Park and playground, various streets and sidewalks, and the promenade.

Battery Park Conservancy manager, Bob Serpico indicated on 9/22/01 that he would secure the park at the North Battery Park area until they could conduct samples for clearance. The park was not secured as of 2200 hours on 9/23/01. Various areas along the promenade from vessey street all the way to just south of 1st place remain contaminated. We have prioritized the streets and sidewalk areas followed by the playground and vehicles and lastly the promenade since the Battery Park Conservancy indicated they would handle it.

Cleanup work continues to be conducted in the area from Greenwich to Broadway, between Chambers and Murray. Air monitoring was conducted in this area in an effort to move the site perimeter from chambers to murray. Four air samples were taken in the proposed area. Two samples were found to be borderline at the clearance criteria of .01 fibers/cc. One sample was found to be above the criteria. The remaining sample was found to be below the cleanup criteria. These results were as follows:

Park Place and church	.01 fibers/cc
Park Place and Greenwich	.014 fibers/cc
Murray and Church	.007 fibers/cc
Murray and Greenwich	< .01 fibers/cc

Sample results indicate the need to continue to remediate the contamination and perform additional sampling for clearance. If after additional cleanup the sampling results are substantially lower than the criteria of .01 fibers/cc we should move to shrink the chambers street perimeter if the other environmental agencies are in agreement. Otherwise we would need to conduct additional air monitoring and cleaning until we achieve this goal.

On 9/24/01 we will continue outdoor remediation of the proposed area and believe it will be completed sometime on Tuesday afternoon.

We have still not seen the vehicle advisory as promised from DOH.

At 2200 hours DERTA was requested by FDNY to report to the forward command center to evaluate a condition in the verizon building. DERTA determined the gas odor was hydrogen sulfide caused by fill decay or sewer gas in the basement of the verizon building. This condition was then referred to the verizon safety personnel.

DEP COMMAND CENTER

Fax: 9177691193

Sep 27 '01 13:31

P.01

9/26/01

After initial disagreements with Battery Park City Authority and the ~~the~~ threat of a Commissioners order, a meeting was arranged by DC Avaltroni with Ann Kutter and ~~Leticia~~ Leticia Remanto. All areas ~~that~~ needed to be addressed were

~~on~~ on the promenade that needed to be addressed were discussed and agreed upon. EPA will be cleaning most of these areas. More sensitive areas will be cleaned by Battery Park City.

Brian Peters (2)
3645

9/27/01

South End Ave ~~North of Albany~~
from Albany to Marina ramp.

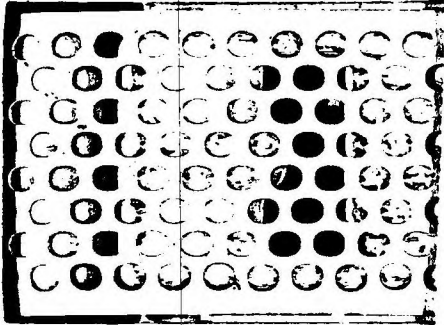
This area has not yet been cleaned and air sampling done on 9/26/01 shows elevated levels of asbestos.

This area should not be accessed by residents. Brian Peters from Bovis has indicated that construction trucks do not need to use this section of South End Ave. They will restrict trucks to West St,

We will try to get EPA to clean this section of street tonight. We will also need the building management to clean debris from the ledges of the parking garage. Also the tower building at Gateway Plaza with all broken windows on the eastern facade, has a large quantity of debris which periodically cascades to the ground due to high winds in the area. This also needs to be addressed by the building management.

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[illegible]



9/27/07

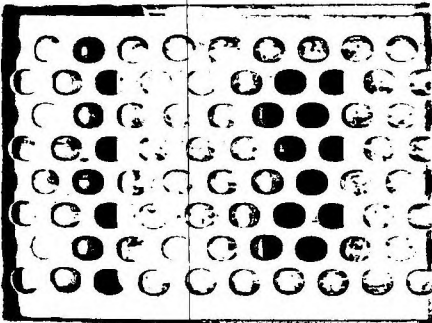
#.

Paul Place & Church 0.050

Church & Murray ~~0.016~~

Greenwich & Paul Pl ~~0.014~~

Greenwich & Murray 2.008



Commissioners WTC Update for 9/30/01

Battery Park City

The playground area in North Battery Park City is still scheduled for Monday at 7:00am to be cleaned. This will include the removal of sand from the sandboxes. This cleanup has been delayed to this point at the request of Battery Park Conservancy. Playground area is still not secured and DEP has maintained the recommendation that it should have been cleaned up immediately. The EPA has confirmed tonight that the park will begin being cleaned at 7am on 10/1/01 regardless of the weather conditions.

Issues at Gateway Plaza:

The facade of the 600 building (375 South End Ave), the garage area and inner court yard are still being cleaned. It is the responsibility of the building owners to assure the integrity of the apartments inside the buildings. They are aware of the EPA requirements for sampling and clearing apartments.

*The checkpoint and wash station located at the SW corner of South End Ave. and Albany Street has not been moved. Consideration for it's relocation to the NE corner of South End Ave. and Albany Street was made in an effort to ease the access for tenants into the complex. However, it has been determined that easy access is available at the existing location. The PD is fully aware of the sensitivity of this matter and understands the need for tenants to easily access their apartments without imparting undue burdens on security restrictions.

4 Financial Center

No change from 9/29/01 update. Inspection of the building on 9/28 revealed contamination of lobby areas, restaurant and several bar areas. Some windows were blown out on the facade facing south. No cleanup work observed inside building. Cleanup is the responsibility of the building owner, including inside areas, facade and rooftop. We will put outside area on list for cleanup as a priority to give access to the building.

Greenwich to Broadway between Chambers and Murray

This area was opened on 9/28, based on two consecutive days of air monitoring showing levels below regulatory levels. New perimeter was moved from Chambers to Murray. Air sampling continues in this area to verify clearance levels. PCM results for 9/30 and TEM results (for PCM samples above .01fibers/cc on 9/29) are as follows:

	PCM 9/30/01	PCM 9/29/01	TEM results from 9/29
Park Place and Church	0.024 fibers/cc	0.020 fibers/cc	16 (#/mm ²)
Park Place and Greenwich	<0.009 fibers/cc	<0.009 fibers/cc	NA
Murray and Church	0.042 fibers/cc	0.041 fibers/cc	40 (#/mm ²)
Murray and Greenwich	<0.009 fibers/cc	<0.009 fibers/cc	NA

9/30: Two of these results are high. High winds again have increased the level of dust in the air. Note: PCM is the more conservative method of analysis. These samples along with other samples that have shown an increase are being sent out for TEM analysis. TEM analysis for 9/29 samples resulted in acceptable results for maintaining new perimeter. There are acceptable levels below 70 structures/mm². 9/30 PCM samples above .01fibers/cc have been sent out for TEM analysis. Both PCM and TEM are indoor standards used in mostly static settings. The dynamic outside

environment complicates the situation.

DOH

Anticipating vehicle advisory as promised by DOH for 9/30.

First Response

DEP HazMat performed a B5 sublevel entry with FDNY on 9/30. The entry was made to ascertain the condition of the slurry wall and the freon tanks. DEP HazMat monitored for Freon 22 with a direct reading instrument. All readings for freon22 were zero. In addition, water samples from the flooded path train subway tracks were taken. Samples will be analyzed for Freon 22 and results will be reported 10/1. As many precautions as possible for safety and exposure were taken given the conditions of entry. DEP HazMat monitored the atmosphere for oxygen, explosive conditions, freon22 and volatile organics. DEP determined that conditions at the time of entry were satisfactory for use of respirators. Supplied air was carried as an emergency backup in the event of encountering unforeseen conditions.

Washington Market Park

The childrens sand box at Washington Market Park on Chambers and Greenwich was cleaned out on 9/30. Reports of private residents taking samples and finding asbestos in the sand were alleged. DEP and EPA have not seen any reports or analysis. DEP took 3 samples of sand from the sandbox on 9/30. Analysis indicated two samples contained trace levels of chrysotile and one sample was negative.

Perimeter Results

Fulton & Church	0.011 fibers/cc
Trinity Place & Thames St.	0.076
Warren & North End Ave	0.009
River Terrace & Park Pl. West	0.009
River Terrace & Chambers	0.009
River Terrace between Park Pl & Warren	0.011
West & Warren	0.009
River Terrace & Vesey	0.008
South End Ave & Albany	0.031
Rector Pl by Park	0.020
West Thames at waterfront	0.009
West of 3rd Pl (South Cove Apts.)	0.015
West & Albany	0.022
Gateway Plaza Park area	0.008



ROBERT C. A'ALTRONI, DEPUTY COMMISSIONER
BUREAU OF AIR, NOISE, & HAZARDOUS MATERIALS

59-17 Junction Blvd., 11th floor
Corona, New York 11368-5107
(718) 595-4418
FAX (718) 595-4544

Kim
Hanna
phone in
wed.

Lab results 9/18 AM
for Tuesday

Warren + North End 0.008
S/E corner (close to G.Z.)

West Street + Vesey .034
N/W corner (Grand Zero)

Perimeter samples

Murray + Greenwich .011
Liberty + Church .021
Fulton + Church .027
S/W corner

Murray + Church .018
S/E corner

Building

225 Rector Place .044
11th Floor .03
Lobby

**September 16, 2001: Bureau of Environmental Compliance
Recommendations Regarding the Re-Occupancy of Evacuated
Buildings & Bureau's Update on Daily Report Regarding Hazmat
Activities and Asbestos Air Sampling:**

DEPARTMENT OF HEALTH ISSUES

- Based on the imminent release of City DOH's Public Advisory, we recommend that all inquiries regarding the re-occupancy of buildings with regard to health & safety should be referred to the New York City Department of Health (DOH). We have recommended that a DOH hotline be established immediately.
- Conferred with Dr. Andrea Lyman, DOH, who concurs with our recommendation and the establishment of a DOH Hotline.
- DEP's Bureau of Environmental Compliance (BEC) will offer any technical support and advice needed to assist DOH in their mission.
- It is BEC's recommendation that DOH's Public Health Advisory regarding the re-occupancy of buildings be finalized and posted on the City's website and that DOH should attempt to disseminate the information to the public. The Real Estate Board, Building Management Agencies and others may be able to assist DOH in this endeavor.
- It is BEC's recommendation that DOH be supported by sister agencies with respect to sufficiently staffing this effort.
- DEP's BEC will continue to address the air, asbestos and/or hazardous material clean-up through the DEP complaint center at 718 DEP-HELP. To date inquiries are light.

Update on Daily Report Regarding Hazmat Activities and Asbestos Air Sampling:

- **Results of Air Testing at City Hall:** All asbestos wipes taken following the clean-up at City Hall tested negative. Additional air monitoring results are expected by early evening. (We don't anticipate any problems)
- **Update on HEPA Vacuuming of Financial District:**

All streets east of Broadway have been addressed. Site inspections indicate that the streets are clean, free of debris and are accessible to the general public.

SEPTEMBER 15, 2001: 2PM UPDATE

- **PLAN FOR DERELICT VEHICLE REMOVAL (GROUND ZERO):** FDC Chapin and Mike Gilsenan have discussed the methodology for the removal of the vehicles from ground zero. The plan is as follows:
 1. EPA will supply a HEPA vac for as long as is needed
 2. MTA will supply power washer
 3. Vehicles will be funneled through a central point where vacuuming and washing will take place.
 4. Vehicles will be towed to a location underneath the Manhattan Bridge.
- Agencies involved need to coordinate through OEM.
- **FREON GAS EMISSION:** BEC staff, EPA and others were meeting at 2PM today to discuss Freon gas emissions emanating from a shaft at ground zero. DEP's equipment does not have sufficient length to properly monitor the site. EPA has been asked to perform the monitoring.
- **DEPARTMENT OF HEALTH PUBLIC HEALTH ADVISORY:** BEC's Asbestos Unit has been contacted by DOH and asked to comment on their Public Health Advisory regarding the reoccupation of commercial and residential buildings. Asbestos has made some changes (see attachments).
- **HEPA VAC. FINANCIAL DISTRICT UPDATE:** Update on the HEPA vacuuming of financial district streets and sidewalks. The vacuuming is progressing well. One problem area is located at Cedar and Trinity Streets. There are cables in the streets interfering with the process, these cables are providing services to a temporary morgue. The contractor will go back to the area later today.

you can see from just two days data the fiber count has gone up even as a result of some cleaning. With TEM there would have been a possible increase of asbestos fiber count since our PCM numbers went up in certain areas. We need to be sure that when we move our perimeter in it will stay there.

Currently, sample results indicate the need to continue to remediate the contamination and perform additional sampling for clearance. If after additional cleanup the sampling results are substantially lower than the criteria of .01 fibers/cc we should move to shrink the chambers street perimeter if the other environmental agencies are in agreement. Otherwise we would need to continue to conduct additional air monitoring and cleaning until we achieve this goal. Some of the major problems in cleaning and clearing the area have been in trying to get construction traffic diverted away from the area. In addition, because we cannot get streets closed during cleaning we are forced to move at a slower pace. We were also set back because of new ID requirements for our contractors which will take one to two days to get all personnel the new IDs. I also have been told today that DEP workers will now need to turn in old IDs and need a new ID. This again is going to set us back. I would like to note that Utilities like CON ED and Verizon do not need additional ID from their work ID.

New 50ft perimeter

DERTA is concerned about the proposed 50ft perimeter around ground zero as being the hot zone. Based on our sampling and experience on site we believe it should be set back further. It is a little unclear what 50ft will mean and from what point. However, 50 feet is approximately three car lengths and that seems very impractical from work and safety standpoint.

DOH

We have still not seen the vehicle advisory as promised from DOH. We feel this is a very critical issue and should have been conveyed.

First Response

No major haz mat first response request from the FDNY forward command post. The daily ground zero monitoring for dangerous gases was negative.

Future Progress

DERTA has surveyed other areas inside the perimeter in an effort to target potential sites to be opened. DERTA does not believe that it will be possible to clear any other areas because of the close proximity to ground zero. Major work at ground zero would have to be completed before we could reassess the feasibility of opening another area.

Walked
up to Comm.
verbal to F/O/C

9/24 3:45pm

Greenwich + Park Place	0.012
Church + Murray	0.017
Greenwich + Murray	0.009
Park Place + Church	0.007

maldanado, jane (ex)

From: Raffo, Barbara

Sent: Wednesday, September 26, 2001 11:59 PM

To: Avaltroni, Robert; gilsennan, michael (ex); maldanado, jane (ex)

Cc: Kelpin, Gerry



september 26
Update.doc



Here are the
commissioners upd...



new%2edoc.html

[illegible]

**Here are the commissioners update. Commissioner WTC
Update for 9/25-26 Activities**

Battery Park City

South Battery Park areas are still in the cleanup stage. These areas include rector Place Park and playground, various streets and sidewalks, and the promenade. Problems cleaning playground at rector street because of clogged drain have been working hard to get it resolved with no avail.

North Battery Park City work has begun on the playground area. This includes removal of sand from a large area .

Cleanup also continues on north cove area near the marina.

Working on plan to have roof tops of buildings clean to reduce emissions and prevent recontamination of abated areas. Work will entail extensive rigging and vac trucks. Will discuss plan of action and whether this is something we want to undertake with EPA. Timeframe to complete will be extensive. Dependent on EPA resources.

Greenwich to Bdway between chambers and Murray

Cleanup work continues to be conducted in the area from Greenwich to Broadway,
between Chambers and Murray. We anticipate work to be completed on 9/26/01. Air monitoring was conducted in this area in an effort to move the site perimeter from chambers to murray. Four air samples were taken in the proposed area each day. These results were as follows:

9/23/01

Park Place and church .01 fibers/cc

Park Place and Greenwich .014 fibers/cc

Murray and Church .007 fibers/cc

Murray and Greenwich < .01 fibers/cc

9/24/01

Park Place and church .007 fibers/cc

Park Place and Greenwich .012 fibers/cc

Murray and Church .017 fibers/cc

Murray and Greenwich .009 fibers/cc

9/25/01

Park Place and church .009 fibers/cc

Park Place and Greenwich .009 fibers/cc

Murray and Church .007 fibers/cc

Murray and Greenwich <.007 fibers/cc

9/26/01

results expected at 0900 hours

Data for the last two consecutive days indicate that
air monitoring results have

DOH

We have still not seen the vehicle advisory as
promised from DOH. We feel this is a very critical
issues and should have been conveyed.

First Response

No major haz mat first response request from the FDNY
forward command post.

The daily ground zero monitoring for dangerous gases
was negative.

Future Progress

DERTA has surveyed other areas inside the perimeter in an effort to target potential sites to be opened. DERTA does not believe that it will be possible to clear any other areas because of the close proximity to ground zero. Major work at ground zero would have to be completed before we could reassess the feasibility of opening another area.

Perimeter Results

Fulton / Church = <0.008
 Warren / North End Ave = <0.008
 West Street & Warren = <0.012
 NW Gateway Plaza at Park Area = 0.008
 South End Ave & Albany = <0.007
 West & Albany = <0.008
 Rector Place = <0.007
 3rd Place/West End/Waterside = <0.007
 West of West Thames = <0.007
 Park Place & River Terrace = <0.008
 River Terrace & Chambers = <0.007
 River Terrace & Warren = <0.007
 North End Ave & Park Place West = <0.008
 Vesey & River Terrace = <0.008
 Trinity Place & Thames = <0.008

-----Headers-----

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Tue, 25 Sep 2001 21:32:50 PDT
Date: Tue, 25 Sep 2001 21:32:50 -0700 (PDT)
From: M Fawzy <moose132@yahoo.com>
To: Avaltroni <gaspopus@aol.com>, Barbara Raffo <bobrakate@aol.com>
MIME-Version: 1.0
Content-Type: multipart/mixed;
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Subj:

wtc text version

Date:

Wed, 26 Sep 2001 7:46:43 AM Eastern Daylight Time
From:

M Fawzy <moose132@yahoo.com>
To:

Barbara Raffo <bobrakate@aol.com>

Commissioner WTC Update for 9/25-26 Activities

Battery Park City

South Battery Park areas are still in the cleanup stage. These areas include rector Place Park and playground, various streets and sidewalks, and the promenade. Problems cleaning playground at rector street because of clogged drain have been working hard to get it resolved with no avail.

North Battery Park City work has begun on the playground area. This includes removal of sand from a large area .

Cleanup also continues on north cove area near the marina.

Working on plan to have roof tops of buildings clean to reduce emissions and prevent recontamination of abated areas. Work will entail extensive rigging and vac trucks. Will discuss plan of action and whether this is something we want to undertake with EPA. Timeframe to complete will be extensive. Dependent on EPA resources.

Greenwich to Bdway between chambers and Murray

Cleanup work was completed on 9/26/01 at 0800hours in the area from Greenwich to Broadway, between Chambers and Murray. DECON checkpoint on church and chambers has been moved back to Murray and church. Air monitoring was conducted in this area in an effort to move the site perimeter from chambers to murray. Four air samples were taken in the proposed area each day. These results were as follows:

9/23/01

Park Place and church	.01 fibers/cc
Park Place and Greenwich	.014 fibers/cc
Murray and Church	.007 fibers/cc
Murray and Greenwich	< .01 fibers/cc

9/24/01

Park Place and church	.007 fibers/cc
Park Place and Greenwich	.012 fibers/cc
Murray and Church	.017 fibers/cc
Murray and Greenwich	.009 fibers/cc

9/25/01

Park Place and church	.009 fibers/cc
Park Place and Greenwich	.009 fibers/cc
Murray and Church	.007 fibers/cc
Murray and Greenwich	<.007 fibers/cc

9/26/01

results expected by 1000 hours

Data for the last two consecutive days indicate that air monitoring results have passed clearance levels. DERTA will request that the perimeter be moved. We anticipate other health and environmental agencies will confirm with our request.

DOH

We have still not seen the vehicle advisory as promised from DOH. We feel this is a very critical issues and should have been conveyed.

First Response

No major haz mat first response request from the FDNY forward command post.

The daily ground zero monitoring for dangerous gases was negative.

Future Progress

DERTA has surveyed other areas inside the perimeter in an effort to target potential sites to be opened.

DERTA does not believe that it will be possible to clear any other areas because of the close proximity to ground zero. Major work at ground zero would have to be completed before we could reassess the feasibility of opening another area.

Perimeter Results

Fulton / Church = <0.008
 Warren / North End Ave = <0.008
 West Street & Warren = <0.012
 NW Gateway Plaza at Park Area = 0.008
 South End Ave & Albany = <0.007
 West & Albany = <0.008
 Rector Place = <0.007
 3rd Place/West End/Waterside = <0.007
 West of West Thames = <0.007
 Park Place & River Terrace = <0.008
 River Terrace & Chambers = <0.007
 River Terrace & Warren = <0.007
 North End Ave & Park Place West = <0.008
 Vesey & River Terrace = <0.008
 Trinity Place & Thames = <0.008
 Commissioner WTC Update
 for 9/25-26 Activities

Battery Park City

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9/24/01

Park Place and church	.007 fibers/cc
Park Place and Greenwich	.012 fibers/cc
Murray and Church	.017 fibers/cc
Murray and Greenwich	.009 fibers/cc

9/25/01

Park Place and church	.009 fibers/cc
Park Place and Greenwich	.009 fibers/cc
Murray and Church	.007 fibers/cc
Murray and Greenwich	<.007 fibers/cc

9/26/01

results expected by 1000 hours

Air sampling results have not passed clearance levels.
DERTA will continue to monitor until clearance samples pass.

DOH

We have still not seen the vehicle advisory as promised from DOH. We feel this is a very critical issues and should have been conveyed.

First Response

No major haz mat first response request from the FDNY forward command post.

The daily ground zero monitoring for dangerous gases was negative.

Future Progress

DERTA has surveyed other areas inside the perimeter in an effort to target potential sites to be opened.

DERTA does not believe that it will be possible to clear any other areas because of the close proximity to ground zero. Major work at ground zero would have to be completed before we could reassess the feasibility of opening another area.

Perimeter Results

Fulton / Church = <0.008

Warren / North End Ave = <0.008

West Street & Warren = <0.012

NW Gateway Plaza at Park Area = 0.008

South End Ave & Albany = <0.007

West & Albany = <0.008

Rector Place = <0.007

3rd Place/West End/Waterside = <0.007

West of West Thames = <0.007

Park Place & River Terrace = <0.008

River Terrace & Chambers = <0.007
River Terrace & Warren = <0.007
North End Ave & Park Place West = <0.008
Vesey & River Terrace = <0.008
Trinity Place & Thames = <0.008

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Subject: wtc text version
To: Barbara Raffo <bobrakate@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

(3)

They may be able to put some netting or similar material around the building to prevent debris from falling back down.

Until this is done levels on the street will probably continue to remain high.

Once the street is cleaned we will conduct air monitoring. When results are acceptable for two consecutive days we will be able to open this area to residents.

Friday, September 28, 2001: Daily Update

Report from Bureau of Environmental Compliance

Results of Air Testing:

Murray/Church = .016
 Greenwich/Murray = .008
 Fulton /Church = .010
 Warren/North End Ave = .009
 West Street & Warren = .009

North End

Park Place & Park Place West = .009
 River Terrace & Chambers = .014
 River Terrace & Park Area = .009
 North End Ave & Park Place West = .009

Park Place /Church = .050
 Park Place Greenwich = .014
 Trinity Place & Thames = .009
 Vesey & West = .018 **Back to back samples taken because of the activity**
 Vesey & West = .016 **regarding the removal of the building skeleton at this**
 location
 River Terrace & Vesey Street = .009

South End

NW Gateway Plaza at Park Area = .009
 South End Ave & Albany = .008
 West & Albany = .007
 Rector Place by the Park = .009
 3rd Place/West End /Waterside = .
 Waterfront & West Thames = .008
 West of 3rd Place (Souoth Cove Apartments) = .007

Battery Park City Update:

Update on Thursday Night/Friday Morning Clean-Up:

Early this morning, HazMA met with Battery Park City representatives Richard Lefrak and Anne Kutter at Gateway Plaza. Hazmat advised them to clean debris from South End Avenue (rear courtyard area of Gateway Plaza). Once the courtyard area at 375 South End Ave and the Parking Garage facade have been cleaned Gateway Plaza building can be reoccupied.

Hazmat advised that the best approach for residents entering Gateway Plaza will be by walking west on Albany Street to the promenade and then North on the promenade to Gateway Plaza.

Hazmat met with Bovis who have now diverted all truck traffic from South End Ave, North of Albany to West Street

Hazmat took wipe samples of transformers (buried in rubble) from 7 World Trade Center. Samples to be analyzed today.

EPA is vacuuming parking lot bordering North side of Battery Park City which they will use as a staging Area.

Battery Park City representatives were advised to replace sand from northern playground. BPC representatives asked that this not be done until Monday – EPA contractors will do the job.

Paul Bennet requested and was supplied with TEM results from September 27.

September 28, 2001

Battery Park City inquiry (4 WFC Merrill Lynch)

Deputy Commissioner Avaltroni received a call from Tony Woo concerning EPA's setting up a DeCon Operation in very close proximity to 4 World Financial Center (Merrill Lynch). They asked if the DeCon Operation could be relocated one block north on West Street which would be away from the Merrill Lynch building. In our conversation with EPA they said that OEM and DOH had approved the location for De Con at Vesey and West Street.

We have asked Paul Bennett to inquire if we have an alternate site that could be used by EPA in this effort.

We are told that Merrill Lynch has lights and power at 4 WFC and are conducting clean-up activities intending on bringing in some personnel on Monday 10/1 with an eye toward occupying on 10/8. We are reviewing the location to deem how we can provide assistance and perform any necessary testing prior to occupancy.

FDC Chapin has been advised of our efforts.

September 28, 2001

Gateway Plaza

On Friday, September 28, 2001 (approximately 5:00 p.m.) the Bureau of Environmental Compliance received a call from Katherine Freed's office regarding residents not being allowed to get into 345, 355, 365, 375 and 385 South End Avenue (Gateway Plaza) to retrieve their valuables, etc.. At approximately the same time, Mr. Lefrak's office called to say that approximately 100 irate residents were assembled in the area demanding to get back into their apartments (again to get clothes, passports, etc.).

Environmental Compliance called Department of Health (DOH) and spoke to Jessica Leighton asking for her assistance in resolving this issue. She explained that from DOH's perspective, residents could be allowed to enter their apartments because it was a short-term exposure risk. She advised that poly be put down to allow for a temporary walkway for the residents. Also, she advised that residents should wear a dust mask and when the residents were in the apartment to disturb dusty areas as little as possible. Remove shoes before entering the apartment and clean the clothes they were wearing as soon as possible. These instructions were passed on to Mr. Lefrak. He asked assistance in getting dust masks and I told him we would try. Paul Bennett was advised of same. Moustafa Fawzy was advised of same and Moustafa also informed me that his unit had no dust masks. First Deputy Commissioner Chapin was also advised of the solution we were able to obtain.

TO: Commissioner Aualtroni 4544

FROM: HANNA - HAZMAT ; MOBILE LAB.

212-312-9969

ADDENDUM

COMMISSIONER'S WTC UPDATE FOR 9/30/01

- DOH has put a vehicle advisory on its website. It is included in its section on Frequently Asked Questions related to air quality following the WTC disaster.
- Freshkills Landfill – EPA has been doing air monitoring for asbestos since September 18/19. September 18/19 seems a little spotty; however, since September 20, they have been sampling twice a day. Their results are shared with OSHA, NIOSH, and State and City DOH.