

*See
Pictures/
Presentations
file*

DEPARTMENT OF ENVIRONMENTAL PROTECTION

ACTIVITIES

- Initial Response and Assessment
- Coordination with OEM, EPA, DOS & DOH
 - for clean-up activities of streets, sidewalks & common areas
 - to determine street openings after assessment of monitoring results

- Participated in daily meetings with EPA, NYS DOH, NYSDEC and other City agencies to discuss clean-up activities and air sampling results.
- Developed and distributed advisories
 - Building sites
 - Community Assistance Desk
 - Real Estate Board
- Telephone assistance to building owners, tenants, contractors, and consultants 12 hours/ day for 2 months and ongoing

- Press release to contact DEP 24-hour HELP Center with re-occupancy concerns.
- Site inspections & Building Surveys.
- Review of scopes of work for clean-up of ACM and processing of emergency notifications. Inspections and follow-up inspections were performed at all these sites.

INDOOR SAMPLING

Results of the sampling data submitted
by building owners to date

Number of Buildings	218
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BULK

Bulk samples collected	1,999
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Positive Bulk Samples (greater than 1% asbestos)	128
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AIR

Air Samples collected	111,768
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Phase Contrast Microscopy(PCM)	75,275
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Positive PCM sample results (greater than 0.01f/cc)	780
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Transmission Electron Microscopy(TEM)	36,493
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Positive TEM sample results (greater than 70 s/mm ²)	108
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as of 3/4/2002

DEP's AMBIENT AIR SAMPLING –ASBESTOS

Background

- One sampling station in each of the five boroughs from 9/14 to 10/12
- 408 samples (PCM)
- All the sample results are within acceptable levels

Re-occupancy std 0.01f/cc or 70 s/mm²

DEP's AMBIENT AIR SAMPLING -ASBESTOS

Schools Around Ground Zero

- 8 hour air samples in front of Stuyvesant High School, PS 89, 100 Trinity Place and PS 234
- 10/4 to 10/18 60 samples (PCM)
- 10/19 – ongoing (TEM) 556 samples (3/6/02)
- All the sample results are within acceptable levels.

Re-occupancy std 0.01f/cc or 70 s/mm²

American Society for Testing and Materials - ASTM D5755

Limitation (As per ASTM document)

- 5.1.1 This test method does not describe procedures or techniques required to evaluate the safety or habitability of buildings with ACM or compliance with federal or state or local regulations or statutes.
- 5.1.2 At present, a single relationship between asbestos containing dust and potential human exposure does not exist.

AIR SAMPLING RESULTS

SUMMARY

- 3060 samples collected from network of stations around ground zero 2980
- 500 samples collected in front of 4 schools
- 328 samples collected from outer boroughs
- Total number of samples 3888
- Only 9 (0.2%) samples were greater than the std

as of 2/6/02

DEPARTMENT OF ENVIRONMENTAL PROTECTION

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- Developed and distributed advisories
 - Building sites
 - Community Assistance Desk
 - Real Estate Board
- Telephone assistance to building owners, tenants, contractors, and consultants 12 hours/ day for 2 months and ongoing

- Press release to contact DEP 24-hour HELP Center with re-occupancy concerns.
- Staff responded to sites, performed inspections, and recommended actions.
- Site inspections & Building Surveys.
- Review of scopes of work for clean-up of ACM and processing of emergency notifications. Inspections and follow-up inspections were performed at all these sites.

- Review of sampling data submitted by building owners & ongoing. The results are

Bulk samples collected 1,478

Positive Bulk Samples 105 (greater than 1%)

Air Samples collected

Phase Contrast Microscopy(PCM)	74,459
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Positive PCM sample results	761
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Transmission Electron Microscopy(TEM)	35,438
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Positive TEM sample results	105
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AIR SAMPLING -ASBESTOS

Background

- One sample in each of the five boroughs
- 9/14 to 10/12
- 408 samples (PCM)
- All the sample results are below std

Re-occupancy std 0.01f/cc or 70 s/mm²

AIR SAMPLING -ASBESTOS

Around Ground Zero

- 8 hour air sample in front of SHS,PS 89, 100 Trinity Place and PS 234
- 10/4 to 10/18 60 samples (PCM)
- 10/19 – ongoing (TEM) 440 samples (2/6/02)
- All the sample results are below std.

Re-occupancy std 0.01f/cc or 70 s/mm²

ASBESTOS STANDARDS

- POLARIZED LIGHT MICROSCOPY (PLM)
 - For bulk samples & the def. is greater than 1%
- PHASE CONTRAST MICROSCOPY (PCM)
 - For air samples & the re-occupancy std is 0.01 fibers/cc
- Transmission Electron Microscopy (TEM)
 - For air samples & the re-occupancy std is 70 structures/ square millimeter

There is no indoor or outdoor std for asbestos.

Maldonado, Jane

From: Avaltroni, Robert
Sent: Tuesday, September 03, 2002 10:49 AM
To: Maldonado, Jane
Subject: FW: DEP contributions to Post-9/11 Recovery and Rebuild Effort

-----Original Message-----

From: Grob, Shauna
Sent: Monday, August 26, 2002 1:10 PM
To: Hoffer, Mark; Avaltroni, Robert; Farag, Magdi
Cc: Greeley, Douglas; Sturcken, Charles; Lanaghan, Mark
Subject: FW: DEP contributions to Post-9/11 Recovery and Rebuild Effort

This has been sent. Bob and Magdi --- Thank you for your quick responses.

Shauna

-----Original Message-----

From: Grob, Shauna
Sent: Monday, August 26, 2002 1:07 PM
To: 'eskyier@cityhall.nyc.gov'
Subject: DEP contributions to Post-9/11 Recovery and Rebuild Effort

Attached is a one-page summary of DEP's key accomplishments, as per your fax of 8/22. Please let me know if you need any additional information. I can be reached via email at shaunag@dep.nyc.gov or by phone at (718) 595-3480.



DEP Lower
nhattan Work_0826

Sincerely,
Shauna Grob
Chief of Staff

9/3/02

New York City Department of Environmental Protection
Contributions to Post-September 11th Recovery and Rebuilding

Exterior Building Clean-Up Program

- DEP performed inspections of exterior building surfaces, including the examination of roofs, facades, alleys, fire escapes and ledges for the presence of visible debris from the collapse of the World Trade Center (WTC). Buildings with visible accumulations of debris were identified, and building owners and managers were directed to have the material tested and cleaned up appropriately. Follow-up inspections were performed based on owner/manager written response.
- DEP's Exterior Clean Up Program was developed with funding from the Federal Emergency Management Agency to clean up exterior surfaces that still had WTC debris. The Exterior Clean Up Program was initiated on 6/3/02, and is still in progress. The projected completion date is 10/31/02.
- Building owners and managers whose properties were identified as having WTC debris were sent license agreements to allow work to proceed. Three abatement contractors, chosen through the City's procurement process, are cleaning exterior building surfaces under DEP's direction and oversight. A third party air-monitoring firm, also chosen through the City's procurement process, performs air sampling during clean-up activities. The clean-up work includes installing barriers, collecting all bulk debris, HEPA vacuuming and wet wiping surfaces, and a final wash down of the included surfaces. Water collection barriers are set up when necessary. Collected water is filtered.
- To date, the DEP has not received license agreements from all building owners/managers. Staff continues to contact building owners regarding the program and return of the agreement. Orders to abate will be issued to building owners when necessary. Building owners refusing to take advantage of the program will be mandated to pay for an appropriate clean up.
- The DEP Help Center continues to take information from individuals wishing to report visible debris on exterior surfaces. The Help Center is at (718) DEP-HELP and operates 7 days a week, 24-hours a day.
- DEP has inspected 1,054 buildings in and around lower Manhattan. The following are the results of these inspections:

Buildings without debris on exterior surfaces	747
Buildings with exterior debris	307
Buildings cleaned by building owners and re-inspected by DEP, to date	70
License agreements received from building owners	152
Buildings cleaned by DEP contractors, to date	115

Support for EPA's Residential Indoor Clean-Up Program

- DEP worked with the EPA to facilitate procurement for the EPA's help line for Lower Manhattan residents to request testing and cleaning of their apartments. The help line was opened on 6/3/02.
- DEP has also worked with the EPA to develop scopes of work and procure contractors for the EPA's indoor clean-up program, which is scheduled to begin on 9/3/02.

Infrastructure Improvements and Repair

- DEP has worked closely with the Department of Design and Construction to investigate the condition of existing sewers to recommend replacement, repair, or rehabilitation as necessary. DDC has performed the work as per DEP requirements prior to the start of new utility or street work.
- DEP expanded the scope of work for a water main replacement project to include streets around and in the vicinity of the WTC.

DEP Activity Post Sept 11

I spoke with Bob today and, since the scopes are almost complete (with more requirements from EPA than my last e-mail), he recommends that maybe you can call Brad Gair to keep him in the loop from an executive level. (We have been in touch with FEMA staff at the working level.) Also, he recommends giving Brad copies of the draft scope so that he and his Legal Department can start reviewing it, as Brad had requested.

I also mentioned to Bob that Betsy Collins called regarding information on collection agency contracts (Bob has an extensive background with collection agencies from his Con Ed and PVB days). He asked me to let you know that, if you needed anything from him regarding this issue or any other, please do not hesitate to give him a call.

P.S. He also said he was enjoying his vacation.

Thanks,

Mike

NYC DEP Contributions to Post September 11 Recovery Efforts

The NYCDEP, in conjunction with USEPA and FEMA developed the Downtown Reassurance Program to restore public confidence in Lower Manhattan. The key components of the program were:

- Establishment of an EPA hotline
- Direct assistance to residents and residential building owners for clean-up or testing of their spaces as requested
- Cleaning of unoccupied, uncleaned buildings
- Clean-up of exterior buildings with residual World Trade Center debris
- Clean-up of HVAC systems/Exhaust ducts identified as having World Trade Center debris
- Creation of a database of environmental testing results and clean-up activities
- Pilot building cleaning to assess cleaning techniques
- Background study of levels of potential concern

Deputy Commissioner Robert C. Avaltroni assisted me in the negotiations that resulted in the comprehensive plan and was given the sole responsibility of ensuring that the program was successful and timely. Starting in May 2002, D/C Avaltroni and his team, Assistant Commissioner Michael Gilsenan of the Bureau of Environmental Compliance and Rajappan Radhakrishnan, Director of the Asbestos Control Program, developed a flexible working plan that consisted of multiple tasks ongoing concurrently. This plan allowed these projects to start and finish in an orderly process.

Foremost on the team's mind was that all work done was as protective of the public as possible. To this end, a professional working team relationship was developed with US Environmental Protection Agency (EPA), Region 2. The environmental expertise that EPA brought to the project was indispensable. It was able to develop thresholds in the interior environment for containments that previously did not exist in that arena. DEP's extensive working knowledge of asbestos issues also contributed to the development of the asbestos threshold.

Secondly, DEP had to ensure that monies allocated for this project by the Federal Emergency Management Agency (FEMA) was spent wisely. DEP was able to gain FEMA's confidence with its well thought-out and accurate cost projections for each and every project undertaken. FEMA's confidence in DEP's numbers was such that, throughout the project, EPA was required to receive DEP's approval of their expenditures above and beyond the initial project work plan. The working relationship between FEMA and DEP is a model for government partnerships, the end result being that the public benefits.

The completion of this monumental project is at hand and DEP and its partners are in a position to return \$70 million to the City. The return of these monies is no small feat and is being done in conjunction with FEMA. DEP was able to push its partners and the contractors to finish the project one year ahead of schedule. The Scopes of Work developed for this project were precise allowing no room for waste. Contract Change Orders were handled with an eye towards fiscal responsibility. Senior management meetings were constantly held to ensure continued progress was made and to identify and correct problems before they materialized. Innovative measures were used to speed up the public's response to the program resulting in fewer delays. These actions were all instituted without compromising the integrity of the overall mission to reassure the public that Lower Manhattan was, and is, a safe area to work and live.

I have included the highlights of each program dating back to May of last year when our Administration became involved in a project that was going nowhere. Today, we can take great pride in the accomplishments of this effort.

Exterior Building Clean-Up Program

- DEP performed inspections of exterior building surfaces, including the examination of roofs, facades, alleys, fire escapes and ledges for the presence of visible debris from the collapse of the World Trade Center (WTC). Buildings with visible accumulations of debris were identified, and building owners and managers were directed to have the material tested and cleaned appropriately. Follow-up inspections were performed based on owner/manager written response.
- DEP's Exterior Clean Up Program was developed with funding from the Federal Emergency Management Agency to clean up exterior surfaces of buildings that still had WTC debris. DEP staff developed scopes of work for the clean up and air monitoring. The Exterior Clean Up Program was initiated on June 3, 2002.
- Three abatement contractors, chosen through the City's procurement process, conducted the exterior cleaning of building surfaces under DEP's direction and oversight. A third party air-monitoring firm, also chosen through the City's procurement process, who performed air sampling during clean-up activities. The clean-up work included installing barriers, collecting all bulk debris, HEPA vacuuming and wet wiping surfaces, and a final wash down of the included surfaces. Water collection barriers are set up when necessary. Collected water was filtered.
- DEP contractors completed work removing potentially hazardous dust and debris that accumulated on the roofs, windows and facades of downtown buildings following the World Trade Center collapse. DEP contractors cleaned the surfaces of 221 building, or more than 3.6 million square feet of exterior building space, during the 10-month long project.

- DEP has inspected 1,073 buildings in and around lower Manhattan. The following are the results of these inspections:

Buildings without debris on exterior surfaces	750
Buildings with exterior debris	323
Buildings cleaned by building owners and re-inspected by DEP	102
Buildings cleaned by DEP contractors	221

Unoccupied Building Clean Up Program

- DEP's Unoccupied Building Clean Up Program was developed with funding from the Federal Emergency Management Agency to clean up unoccupied buildings that still had WTC debris. Two buildings, 125 Cedar Street and 114 Liberty Street, were identified. DEP staff developed scopes of work for the clean up and air monitoring. The scopes of work were given to the building owners and the tenants.
- Several inspections with tenants and owners were conducted by DEP to hear the concerns of all involved and ultimately to explain the Scopes of Work with each tenant / owner concerning their individual apartments.
- Two licensed asbestos abatement contractors (one for each building) were chosen through the City's procurement process to conduct the cleaning of building under DEP's direction and oversight. Two third party air-monitoring firms were also chosen through the City's procurement process to perform bulk, wipe and air sampling. Samplings were conducted prior, during, and post clean up activities.
- Both DEP and EPA reviewed the sampling results. Samplings were repeated when the results did not meet the clearance criteria. The buildings were handed over to the building owners / tenants after satisfactory results were obtained from the sampling.

Residential Clean up Program

- Assisted in the development of a Scope of Work for the establishment of an EPA Hotline
- Acted as the procurement entity for the EPA Hotline
- Developed estimates to secure FEMA funding
- Developed draft Scopes of Work for EPA
- Coordinated the final Scopes of Work with EPA after many discussions with local elected officials, local organizations and scientists.
- Developed contractor criteria for the procurement process
- Coordinated efforts between Corporation Counsel, DEP's and EPA's Legal Departments to secure access agreements and insurance requirements.

↓
get #'s from EPA

General

- Developed Scopes of Work and procured 17 emergency contracts for the downtown clean-up efforts.
- Represented DEP on Administrator Whitman's Indoor Air Task Force

Summary of Sampling at WTC performed by DERTA

Air monitoring performed at ground zero (ambient conditions) utilizing direct reading field instrumentation: 9/12 – 10/5/01

Photoionizable organic compounds
Flame ionizable organic compounds
Carbon Monoxide; Dihydrogen Sulfide; Oxygen; explosive atmospheric conditions
Hydrogen Cyanide; Chlorine; Ammonia
Freon 22

Results: Levels were background or non detectable levels.

Air Monitoring for Asbestos: 9/12 – 10/4/01 (conducted by DERTA)..Attachment 1

See attached air monitoring table for locations and results.

Air Monitoring for Asbestos: 10/5 – Present (Monitoring conducted by DEP certified contractor)..Attachment 2

See attached air monitoring results for location and results.

Bulk/Wipe Sampling for Asbestos: 9/11, 9/16, 9/23, 9/26..Attachment 3

DERTA performed bulk and wipe sampling at the locations noted in attachment.

PCB Wipe Sampling on transformers: 9/27..Attachment 4

DERTA performed PCB wipe sampling per EPA request on 2 buried transformers at WTC building # 7. See attachment for results.

Testing at B5 & B6 sublevel at WTC attack site: 9/30, 10/1..Attachment 5

DERTA performed confined space entry into B5 & B6 sublevels with Port Authority Police & FDNY. DERTA performed ambient air monitoring and testing of flood waters for the following:

Non-Potable Flood Waters:

Level B5 & B6: Tested for Volatile Organic Compounds, Chlorodifluoromethane (Freon 22), (B5: 6 samples taken; B6: 4 samples taken).

Salinity Testing: Level B5: 6 samples taken; Level B6: 4 samples taken.

Ambient Air Monitoring:

Levels B5 & B6: Oxygen; DiHydrogen Sulfide; Explosive atmosphere; Carbon Monoxide; Photo Ionizable Organic Compounds; Freon 22 utilizing direct reading field instrumentation.

Level B6 only: In addition to above, one air sample was taken for analytical analysis.

Results: See attachments.

Air Monitoring in surrounding Boroughs: 9/13 – 11/16:..Attachment 6

Air monitoring for *Volatile Organic Compounds, Acid Gases and Metals* were performed at the locations listed below on a daily basis.

**** Note: These air samples are grab samples that were performed everyday at the locations listed below. EPA method TO14 and TO15 were used for sampling and analysis of VOC's. Results were used strictly for emergency response purposes to determine if any immediate actions were required. The sampling results should not used for comparison with NYS or EPA Ambient Air Contaminant Guidelines for long term health assessment studies.**

Manhattan: Central Park North and Lenox Ave.

Queens: Broadway and 31 Street

Bronx: 138 Street & 3 Avenue

Brooklyn: Berry Street & North 11 Street

Brooklyn: Atlantic Avenue & Smith Street

Staten Island: Bay Street & Victory Blvd.

TO: Michael Gilsenan
Assistant Commissioner, BEC

FROM: Moustafa Fawzy
Director, DERTA

DATE: October 24, 2001

RE: Summary of DERTA actions at World Trade Center Attack

On September 11, 2001, the Division of Emergency Response and Technical Assessment (DERTA) was notified by the DEP Communication Center of a plane crashing into the World Trade Center. First Deputy Commissioner Chapin placed the notification to DEP Communications and requested DERTA to immediately respond to the location. DERTA's First Responders comprising its Hazardous Materials Specialists and support team were immediately dispatched to the location.

Upon arrival both Towers had been attacked and were burning. At the moment of collapse of the South Tower, DERTA personnel attempted to escape the impact area. During this period members of the Division were trapped and missing. However, within 2 hours of the collapses, these employees found their way from the underground areas from where they were trapped and resurfaced alerting the Team that they were alive.

At this time, the first response capabilities of the HazMat Specialists and Support members were fully activated. The DERTA team utilized all resources available. The Hazardous Materials Mobile Laboratory was dispatched to the location. DERTA members were mobilizing and preparing to conduct an immediate and detailed technical assessment of the areas impacted by the debris produced from the collapse of the Towers. The Division conducted this assessment by preparing a representative sampling scheme of the areas affected and for those potentially affected by the impact. The Team then performed visual inspections and conducted bulk sampling and air monitoring of public areas. It was established at the onset of the incident that the debris contained high percentage of asbestos. As per regulations, the debris was designated as ACM and recommendations for appropriate actions were made. In addition to performing assessments in public outdoor areas, the Division also conducted visual inspections and performed air monitoring in the interior of publicly owned buildings, including City Hall and its surrounding grounds. From September 11 through October 6th all particulate sampling and subsequent analysis was conducted by the Hazardous Materials Laboratory under the direction of DERTA.

From the onset of this incident, DERTA worked in conjunction with the EPA providing direction to contractors as to the cleanup priorities for the public areas. DERTA also hired and managed DEP contractors to perform cleanup of public areas. Performing oversight of contractors and the cleanup operations was a 24 hour process. Meticulous knowledge of the vicinity, contamination zones, crew and equipment availability and coordination with disposal sites were required. This task continued for several weeks until proper cleanup and subsequent clearance air monitoring results were achieved. Some of the areas required to be cleaned included streets, sidewalks, Battery Park Promenade, building facades, vehicles, parks, and children's playgrounds.

DEP DERTA is continuing the management of private contractors to perform on going air monitoring and analysis. DERTA will collect and assess the data and prepare a written report as it pertains to the environmental impact of the site as it pertains to the emergency response activities and subsequent non-emergency aspects of the incident.

In addition to performing assessments in public areas in lower Manhattan, DERTA implemented the analytical services of Pedneault Laboratories to perform air monitoring in the surrounding five boroughs. Pedneault was instructed by DERTA to perform air monitoring for acid gases, metals, and VOC's.

DEP DERTA also performed entries into ground zero and beneath the World Trade Center. These confined space entries were requested by FDNY and NYPD ESU. DERTA performed monitoring and assessing the conditions of the atmosphere at sub-surface levels. Photoionizable contaminants, Cl₂, ammonia and hydrogen cyanide and Freon were surveyed. In addition, the atmosphere was surveyed for explosive contaminants, carbon monoxide, H₂S and oxygen level. Water samples were taken to analyze for salinity, freon22 and PCB's.

DERTA's activities at WTC attack:

As first responders, DERTA immediately arrived at the WTC incident prior to the collapse of the towers. Following the recovery of personnel who were buried in underground areas following the collapse, DERTA immediately began sampling bulk debris and conducted air sampling to identify hazardous constituents and zones of contamination. Air sampling results obtained on 9/11 by DERTA were used to define the exclusion zone (areas of contamination). On 9/12, air sampling for asbestos continued and additional air monitoring for volatile organic compounds, acid gases and toxic metals was implemented at the impact area, surrounding perimeters, and in the five boroughs.

DERTA coordinated and supervised clean-up activities; identified areas of clearance; provided technical and regulatory expertise to OEM and other environmental agencies; performed confined space entries with FDNY and PA police into unknown ambient atmospheric conditions in sublevel areas below the collapsed towers to identify chemical and toxic atmospheric conditions; examined unknown drums and containers uncovered in rubble; and coordinated investigations with private and public property owners to provide technical and regulatory advisement on proper cleanup processes.

M E M O R A N D U M

TO: Thomas R. Frieden, Commissioner
Department of Health

FROM: Diana Chapin, First Deputy Commissioner
Department of Environmental Protection

DATE: April 3, 2002

SUBJECT: World Trade Center Activities Conducted by DEP

After our recent conversation, I thought it might be helpful to have our staff put together a chronology of some of the WTC activities conducted by DEP.....

- DEP hazmat and air quality staff immediately responded and made preliminary assessments of conditions
- Coordinated cleanup activities of streets, sidewalks, and exterior common areas with OEM, EPA, DOS and NYCDOH
- EPA and DEP contractors conducted street cleanups by using HEPA vacs and DEP directed and monitored cleanup activities.
- Developed and distributed advisories for owners for both exterior and interior maintenance issues involved in reopening buildings (see attached).
- Set up air quality monitors at numerous sites in and around ground zero beginning September 11th.
- Set up air quality monitors at four school locations near the WTC from October 4th.
- Set up air quality monitors in the five boroughs from September 14th-October 1st.
- Set up a special telephone in Asbestos Unit to assist building owners, tenants and contractors with inquiries which was manned 12 hours a day, 7 days a week for 2 months. (Separate and apart from our 24 hour (718) DEP Helpline.)
- Performed site visits to review activities (both exterior and interior) conducted by building owners both on request of owner, citizen complaint and general oversight.
- Performed at least one inspection of all (asbestos project) ACP7 notifications filed by building owners. (To date, 34 building owners have filed ACP7 notifications.)
- Responded to telephone complaints from the public regarding debris/dust in apartments. As of today, DEP has received over 159 indoor complaints and has resolved 152 with 7 ongoing. In 151 cases, no visible debris was

evident. In 1 case, debris was evident enough to take a sample (from a windowsill) and that sample was positive. The landlord was verbally ordered to conduct an asbestos cleanup and complied.

- In January/February of this year DEP, with assistance from EPA and State DOL, surveyed 452 building exteriors in the downtown area (Hudson River to Pearl Street and Chambers Street to Rector Place and Beaver Street). Approximately 211 buildings were identified as having varying amounts of debris on the exterior which was congealed and appeared to be residual debris from the WTC.
- In addition, DEP sent specific information regarding the survey results to those 211 buildings identified as having debris on the exterior and requested that the owners assess the debris and conduct a cleanup based on the assessment.
- In January/February, DEP sent letters to all 452 building owners in that area requesting information regarding assessments and cleanup procedures conducted by owners both indoor and outdoor.
- As a result of our mailing to the 452 buildings, DEP has received 269 responses from building owners, with the following results for asbestos in indoor spaces:

	Total	Positive (asbestos)
Bulk samples	2622	164
Air		
PCM	77,675	863
TEM	41,425	197

Please note, building owners have supplied data on other contaminants but DEP has not yet been able to collate them.

- As a result of our second mailing, owners have mailed information back to DEP that they have performed additional exterior cleanups. To date, DEP has verified 12 buildings in which an additional exterior cleanup was conducted. This is still ongoing.
- In March, DEP sampled 44 of the exterior of buildings identified as having debris and found that 22 tested positive for asbestos.

Attachment

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Activities

- Initial Response and Assessment
- Coordination with OEM, EPA and DOS for Clean-up activities of Streets, Sidewalks & Common Areas
- Coordination with OEM for Street openings after assessment of air monitoring results
- Participated in daily meetings with EPA, NYS DOH, NYSDEC and other City agencies with respect to the clean-up activities and results of air samplings in and around ground zero.
- Developed and distributed advisories
 - Direct distribution at building sites
 - Community Assistance Desk at 110 Maiden Lane
 - Real Estate Board
 - MAYORAL BRIEFINGS (PRESS)*
- Telephone assistance to building owners, tenants, contractors, and consultants 12 hours/ day for 2 months.
- Press release to contact DEP 24-hour HELP Center with re-occupancy concerns. Staff responded to sites, performed inspections, and recommended actions.
- Site inspections & Building Surveys.
- Air sampling activities
 - Ongoing at Ground Zero from September 11, 2001
 - Five locations outside of WTC Vicinity from 9/11 to 10/1/2001. (Outer Boroughs)
 - In front of four schools in the WTC Vicinity
- Review of sampling data submitted by building owners & ongoing
- Review of scopes of work for clean-up of ACM and processing of emergency notifications. Inspections and follow-up inspections were performed at all these sites.
- Developed emergency certification procedures and offered daily certification examinations to ensure a properly trained and qualified work force was available to perform necessary clean-up activities.

1. Number surveys and inspections conducted over 500
2. Number building owners who submitted information is about 70 & ongoing
 - Bulk samples collected 1234
 - Positive Bulk Samples 80 (greater than 1%)
 - Air Samples collected
 - Phase Contrast Microscopy(PCM) 11,110
 - Positive PCM sample results 348
 - Transmission Electron Microscopy(TEM) 1683
 - Positive TEM sample results 21
 - 66,000 2 Financial Center*
3. Number of Notifications submitted for ACM clean-up 35
4. Total number of air samples collected by DEP

DRAFT
M E M O R A N D U M

TO: Thomas R. Frieden, Commissioner
Department of Health

FROM: Diana Chapin, First Deputy Commissioner
Department of Environmental Protection

DATE: April 3, 2002

SUBJECT: World Trade Center Activities Conducted by DEP

As we discussed last night, I had staff put together a chronology of some of the WTC activities conducted by DEP.

- Initial response and assessment.
- Coordinated with OEM, EPA, DOS and DOH for cleanup activities of streets, sidewalks, and common areas.
- EPA contractors conducted street cleanup by using HEPA vacs and wearing proper PPE.
- DEP contractors conducted street cleanup using HEPA vacs and proper PPE (very limited).
- Developed and distributed an advisory (see attached).

Please note the following language used in our advisory:

wipe samples
Please note that use of ~~wet wiping~~ and micro vacuuming are not recognized methods for asbestos sampling and should not be used.

- Set up a special telephone Asbestos-assistance Unit to help building owners, tenants and contractors with inquiries which had been manned 12 hours a day, 7 days a week for 2 months.
- Performed site visits to determine activities conducted by building owners.
- Performed at least one inspection of all (asbestos project) ACP7 notifications filed by building owners.
- To date, 34 building owners have filed ACP7 notifications.
- Responded to telephone complaints from the public regarding debris/dust in apartments. As of today, DEP has received over 159 indoor complaints and has resolved 152 with 7 ongoing. In 151 cases, no visible debris was evident. In 1 case, debris was evident enough to take a sample (from a windowsill) and that sample was positive. The landlord was verbally ordered to conduct on asbestos cleanup and he complied.

- In January/February of this year DEP, with assistance from EPA and State DOL, surveyed 452 building exteriors in the downtown area (Hudson River to Pearl Street and Chambers Street to Rector Place and Beaver Street). Approximately 211 buildings were identified as having varying amounts of WTC debris.
- In January/February, DEP sent letters to all 452 building owners in that area requesting information regarding assessments and cleanup procedures conducted by owners.
- In addition, DEP sent specific information regarding the survey results to those 211 buildings identified as having debris and requested that the owners assess the debris and conduct a cleanup based on the assessment.
- As a result of our mailing to the 452 buildings, DEP has received 269 responses from building owners, with the following results for asbestos:

	Total	Positive (asbestos)
Bulk samples	2622	164
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Please note, building owners have supplied data on other contaminants but DEP has not yet been able to collate them.

- As a result of our second mailing, owners have mailed information back to DEP that they have performed additional cleanups. To date, DEP has verified 12 buildings in which a cleanup was conducted. This is still ongoing.
- In March, DEP sampled 44 of those buildings identified as having WTC debris and found that 22 tested positive for asbestos containing material.

Attachment

Hot Topics

World Trade Center related activities

- US EPA Indoor Air Task Force

Staff from the Bureau of Environmental Compliance (BEC) has attended one meeting and plans to attend another on Wednesday 2/27/02. This task force is headed by US EPA and includes State and City agencies (see proposed activities attached).

- NYC Mayor's Office of Environmental Coordination Task Force

BEC staff has attended several meetings regarding establishing a unified New York City response to questions being asked by downtown residents. An 800 line with scripted questions and answers is under discussion and would be coordinated by OEM. The Department of Environmental Protection and Department of Health would lend staff to this effort.

Since Senator Clinton's hearing on indoor air, the Department has received 52 complaints since 2/11/02, and 42 have been resolved as of 2/27/02. Multiple attempts have been made to contact the remaining, and we will continue our efforts.

- Exterior Inspections of World Trade Center Debris

Since late January, BEC has been conducting surveys of buildings for debris on roofs, facades and setbacks. Currently, two phases are ongoing. Area I: West of Broadway to the Hudson River, Chambers Street to the North and Battery Place to the South. Area II: Broadway to Pearl Street (East), from the Brooklyn Bridge on the North to Beaver Street on the South.

Approximately 435 buildings have been surveyed from Chambers Street/Brooklyn Bridge (Northern boundary) from Hudson River (Western boundary) to Pearl Street (Eastern Boundary) to Rector Place and Beaver Street (Southern boundary). All building owners have been requested to supply DEP with information on their cleanup activities. Based on the information received and on follow-up inspections (which are ongoing) DEP will issue Commissioner's Orders to those buildings with debris that sample results show asbestos containing material.



**Department of
Environmental
Protection**

59-17 Junction Boulevard
Corona, New York
11368-5107

**Joel A. Miele Sr., P.E.
Commissioner**

**Robert C. Avaltroni
Deputy Commissioner**
Bureau of
Environmental Compliance
Tel (718) 595-4418
Fax (718) 595-4422

M E M O R A N D U M

TO: Stuart Erdfarb, P.E.
Agency Chief Contracting Officer

FROM: Robert C. Avaltroni *RC*
Deputy Commissioner

DATE: March 18, 2002

SUBJECT: Exterior Remediation in WTC Vicinity

In conjunction with the U.S. Environmental Protection Agency and the N.Y.S. Department of Labor, this agency performed site visits at buildings in the vicinity of the World Trade Center. These assessments were a follow-up to activities performed in October and November 2001.

The visual assessment disclosed that while many buildings were free of debris, others had various amounts of debris with various dispersal patterns. The majority of buildings identified with debris included isolated areas of debris specifically at the perimeter of roofs, at the base of parapet walls and in gutters. Debris was also visible on horizontal surfaces on building facades.

The observed debris was characteristic of the debris from the impact of September 11, 2001. It appears to have reformed into a dense caked mass. Samples collected from these buildings indicated that some of the samples were asbestos-containing material.

This agency, in conjunction with US EPA, has determined that an expedited cleanup of approximately 250 buildings identified with debris is warranted in order to protect the health and safety of the public and insure that the air quality of the affected area is as pure as possible.

It is necessary to contract the services of asbestos remediation firms and an air monitoring consultant to perform the required tasks. The immediate action required can not be met through normal procurement methods and, as a result, it is necessary that we request a Declaration of Emergency for contracting purposes. The area involved is to be divided into 3 sectors, requiring a remediation contract for each, and 1 air monitoring contract overall. The total cost is estimated at \$10,019,200; funding for which is to be provided by the Federal Emergency Management Agency (FEMA).

Your assistance in this critical endeavor is greatly appreciated.



www.nyc.gov/dep

(718) DEP-HELP



M E M O R A N D U M

TO: Thomas R. Frieden, Commissioner
Department of Health

FROM: Diana Chapin, First Deputy Commissioner
Department of Environmental Protection

DATE: April 3, 2002

SUBJECT: World Trade Center Activities Conducted by DEP

After our recent conversation, I thought it might be helpful to have our staff put together a chronology of some of the WTC activities conducted by DEP.

- DEP HazMat and air quality staff immediately responded and made preliminary assessments of conditions
- Coordinated cleanup activities of streets, sidewalks, and exterior common areas with OEM, EPA, DOS and NYCDOH
- EPA and DEP contractors conducted street cleanups by using HEPA vacs and DEP directed and monitored cleanup activities.
- Developed and distributed advisories for owners for both exterior and interior maintenance issues involved in reopening buildings.
- Set up air quality monitors at numerous sites in and around ground zero beginning September 11th.
- Set up air quality monitors at four school locations near the WTC from October 4th.
- Set up air quality monitors in the five boroughs from September 14th-October 1st.
- Set up a special telephone in Asbestos Unit to assist building owners, tenants and contractors with inquiries which was manned 12 hours a day, 7 days a week for 2 months. (Separate and apart from our 24 hour (718) DEP Helpline.)
- Performed site visits to review activities (both exterior and interior) conducted by building owners both on request of owner, citizen complaint and general oversight.
- Performed at least one inspection of all (asbestos project) ACP7 notifications filed by building owners (To date, 34 building owners have filed ACP7 notifications.)
- Responded to telephone complaints from the public regarding debris/dust in apartments. As of today, DEP has received over 159 indoor complaints and has resolved 152 with 7 ongoing. In 151 cases, no visible debris was

evident. In 1 case, debris was evident enough to take a sample (from a windowsill) and that sample was positive. The landlord was verbally ordered to conduct an asbestos cleanup, and complied.

- In January/February of this year DEP, with assistance from EPA and State DOL, surveyed 452 building exteriors in the downtown area (Hudson River to Pearl Street and Chambers Street to Rector Place and Beaver Street). Approximately 211 buildings were identified as having varying amounts of debris on the exterior, which was congealed and appeared to be residual debris from the WTC.
- In addition, DEP sent specific information regarding the survey results to those 211 buildings identified as having debris on the exterior and requested that the owners assess the debris and conduct a cleanup based on the assessment.
- In January/February, DEP sent letters to all 452 building owners in that area requesting information regarding assessments and cleanup procedures conducted by owners both indoor and outdoor.
- As a result of our mailing to the 452 buildings, DEP has received 269 responses from building owners, with the following results for asbestos in indoor spaces:

	Total	Positive (asbestos)
Bulk samples	2622	164
Air		
PCM	77,675	863
TEM	41,425	197

Please note, building owners have supplied data on other contaminants but DEP has not yet been able to collate them.

- As a result of our second mailing, owners have mailed information back to DEP that they have performed additional exterior cleanups. To date, DEP has verified 12 buildings in which an additional exterior cleanup was conducted. This is still ongoing.
- In March, DEP sampled 44 of the exterior of buildings identified as having debris and found that 22 tested positive for asbestos.
- DEP is currently working with EPA to create an exterior building cleanup based on their earlier surveys. Contracts for the exterior cleanup are to be awarded this week. Air monitoring contracts are already in place. This is to be done with FEMA funding.

Attachment

DEPARTMENT OF ENVIRONMENTAL PROTECTION ASBESTOS CONTROL PROGRAM

WTC Activities

1. Staff performed site visits to determine the activities conducted by building owners and provide building owners or managers with the advisory “ Building Maintenance Issues Involved in Reopening Buildings” and to request copies of any air tests performed after clean-up.
2. Staff responded to telephone inquiries from building owners, tenants and consultants from 8:00 a.m. to 8:00 p.m., seven days a week for two months.
3. Air sampling activities
 - a. At ground zero – ongoing from Sep. 11
 - b. Outer boroughs (five locations) – from Sep. 14 to Oct. 1, 2001
 - c. In front of 4 schools in WTC vicinity - ongoing from October 4, 2001
4. Staff also conducted inspections where a complaint or a telephone notification was received or where building owners requested assistance.
5. Press release announcements to the public to contact DEP Help Center with any concerns during re-occupancy. Staff responded to sites and performed inspections.

2002-0888

New York City Department of Environmental Protection
Contributions to Post-September 11th Recovery and Rebuilding

Exterior Building Clean-Up Program

- DEP performed inspections of exterior building surfaces, including the examination of roofs, facades, alleys, fire escapes and ledges for the presence of visible debris from the collapse of the World Trade Center (WTC). Buildings with visible accumulations of debris were identified, and building owners and managers were directed to have the material tested and cleaned up appropriately. Follow-up inspections were performed based on owner/manager written response.
- DEP's Exterior Clean Up Program was developed with funding from the Federal Emergency Management Agency to clean up exterior surfaces that still had WTC debris. The Exterior Clean Up Program was initiated on 6/3/02, and is still in progress. The projected completion date is 10/31/02.
- Building owners and managers whose properties were identified as having WTC debris were sent license agreements to allow work to proceed. Three abatement contractors, chosen through the City's procurement process, are cleaning exterior building surfaces under DEP's direction and oversight. A third party air-monitoring firm, also chosen through the City's procurement process, performs air sampling during clean-up activities. The clean-up work includes installing barriers, collecting all bulk debris, HEPA vacuuming and wet wiping surfaces, and a final wash down of the included surfaces. Water collection barriers are set up when necessary. Collected water is filtered.
- To date, the DEP has not received license agreements from all building owners/managers. Staff continues to contact building owners regarding the program and return of the agreement. Orders to abate will be issued to building owners when necessary. Building owners refusing to take advantage of the program will be mandated to pay for an appropriate clean up.
- The DEP Help Center continues to take information from individuals wishing to report visible debris on exterior surfaces. The Help Center is at (718) DEP-HELP and operates 7 days a week, 24-hours a day.
- DEP has inspected 1,054 buildings in and around lower Manhattan. The following are the results of these inspections:

Buildings without debris on exterior surfaces	747
Buildings with exterior debris	307
Buildings cleaned by building owners and re-inspected by DEP, to date	70
License agreements received from building owners	152
Buildings cleaned by DEP contractors, to date	115

Support for EPA's Residential Indoor Clean-Up Program

- DEP worked with the EPA to facilitate procurement for the EPA's help line for Lower Manhattan residents to request testing and cleaning of their apartments. The help line was opened on 6/3/02.
- DEP has also worked with the EPA to develop scopes of work and procure contractors for the EPA's indoor clean-up program, which is scheduled to begin on 9/3/02.

Infrastructure Improvements and Repair

- DEP has worked closely with the Department of Design and Construction to investigate the condition of existing sewers to recommend replacement, repair, or rehabilitation as necessary. DDC has performed the work as per DEP requirements prior to the start of new utility or street work.
- DEP expanded the scope of work for a water main replacement project to include streets around and in the vicinity of the WTC.

DEP Activity Post Sept 11

Department of Environmental Protection's Exterior Clean-up Program

- DEP performed inspections of exterior building surfaces. The inspections included the examination of roofs, facades, alleys, fire escapes and ledges for the presence of visible debris from the collapse of the World Trade Center (WTC).
- Buildings with visible accumulations of debris were identified.
- Building owners/managers were directed to have the material tested and cleaned up appropriately.
- Follow-up inspections were performed based on owner/manager written response.
- The Exterior Clean Up Program was developed (with funding from the Federal Emergency Management Agency – FEMA) to clean up exterior surfaces that still had WTC debris.
- The Exterior Clean Up Program was initiated on 6/3/02, and is still in progress
- Building owners/managers whose properties were identified as having WTC debris were sent license agreements to allow work to proceed.
- Three abatement contractors, chosen through the City's procurement process, are cleaning exterior building surfaces under DEP's direction and oversight.
- A third party air-monitoring firm, also chosen through the City's procurement process, performs air sampling during clean-up activities.
- The clean-up work includes installing barriers, collecting all bulk debris, HEPA vacuuming and wet wiping surfaces, and a final wash down of the included surfaces. Water collection barriers are set up when necessary. Collected water is filtered.
- To date, the DEP has not received license agreements from all building owners/managers. Staff continues to contact building owners regarding the program and return of the agreement.
- The projected completion date of the Exterior Clean Up Program is 10/31/02.
- Orders to abate will be issued to building owners when necessary. Building owners refusing to take advantage of the program will be mandated to pay for an appropriate clean up.
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Buildings surveyed, to date	1054
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Speech 3/13/03?

- New York City Hazardous Materials Response Plan describes responsibility of each agency. The agencies involved were OEM, Fire Department, PD, DEP, DOH and Sanitation.
- DEP interacts with other state and federal agencies including NYSDEC and USEPA.
- On 9/11/01, the plan was in operation. DEP began sampling to identify contaminants. Sampling for asbestos and other air contaminants (PCB, heavy metal, acid gasses, voc, semi volatiles) began immediately.
- Sampling was conducted on the pile and in areas impacted by debris as well as upper Manhattan and the other boroughs
- Other agencies (EPA, DEC) also conducted air sampling.
- DEP-RTK records showed chemical inventory of buildings. These were used to identify potential contaminants (PCB, heavy metal, acid gasses, voc, semi volatiles) we were concerned with. Also, obtained records from other agencies (Port Authority, etc.).
- DEP, EPA and DEC recognizing the length of time that the fire was going to continue, conducted air sampling to characterize smoke plume in Manhattan and the surrounding boroughs for an extended period of time.
- Ground water contamination was addressed by NYSDEC.
- Sewer and water mains (check with Doug)

Staten Island Incident Port Mobile Incident

- Fire Department was incident commander.
- DEP conducted air sampling in Staten Island and Brooklyn to determine levels of contaminants
- Through OEM, the results were disseminated to the Mayor, the public and other agencies.
- Air monitoring/sampling was conducted by DEP and EPA
- Same protocols followed regardless of magnitude of incident.

Department of Environmental Protection's WTC Chronological History

- Initial response to Ground Zero by the Division of Emergency Response and Technical Assessment (Hazmat).
- DEP Hazmat took over first response activities in conjunction with the Fire Department who lost a significant number of employees responding to the incident.
- DEP Hazmat performed entries into ground zero and beneath the World Trade Center. These confined space entries involved performing monitoring and assessment of atmospheric conditions at subsurface levels.
- On September 12, DEP began operating a network of outdoor (or "ambient") fixed air monitors that have been used to date for monitoring asbestos levels. Air sampling in front of activities included the outer boroughs through 10/1/01, and included four schools in the vicinity of the WTC site. ¹²
- DEP worked daily with EPA, NYSDOH, NYSDEC and its sister agencies with respect to the clean-up activities and results of air sampling in and around ground zero.
- DEP established a 12-hour hotline (independent of 718 DEPHelp) on 9/12/01 to provide assistance to building owners, tenants, contractors, and consultants through 11/12/01.
- DEP conducted site inspections and distributed cleanup protocols to building owners through October 2001.
- To date, DEP has conducted exterior inspections of almost 1,000 buildings; river to river North to Reade Street.
- DEP has responded to 174 locations as a result of complaints received by the agency. In only one instance did we order an asbestos abatement clean-up.
- To date, we have received over 120,000 indoor air samples from building owners in the affected area. Only 197 samples have been above the TEM level of 70s/mm².
- In early April after numerous public hearings, including the February 11th hearing ^{begin} conducted by Senators Clinton and Lieberman, negotiations with EPA began to formulate a comprehensive plan that would restore public confidence in Lower Manhattan.
- On Wednesday, May 14, 2002, EPA took the lead at a press conference to announce a comprehensive program developed with DEP and FEMA.

fema
11/28/01

Conducted an immediate and detailed technical assessment of the areas impacted by the debris produced from the collapse of the Towers.

Prepared representative sampling scheme of the areas affected and for those potentially affected by the impact.

Performed visual inspections and conducted bulk sampling and air monitoring of public areas.

Conducted visual inspections and performed air monitoring in the interior of publicly owned buildings, including City Hall and its surrounding grounds

Worked in conjunction with the EPA providing direction to contractors as to the cleanup priorities for the public areas.

Hired and managed DEP contractors to perform cleanup of public areas.

DEP DERTA is continuing the management of private contractors to perform ongoing air monitoring and analysis. DERTA will collect and assess the data and prepare a written report as it pertains to the environmental impact of the site as it pertains to the emergency response activities and subsequent non-emergency aspects of the incident.

Implemented the analytical services of Pedneault Laboratories to perform air monitoring in the surrounding five boroughs.

Also performed entries into ground zero and beneath the World Trade Center. These confined space entries **were requested by FDNY and NYPD ESU.**

Performed monitoring and assessing the conditions of the atmosphere at sub-surface levels.

Shauna e-mail
forwarded 9/3/02

New York City Department of Environmental Protection
Contributions to Post-September 11th Recovery and Rebuilding

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- DEP has also worked with the EPA to develop scopes of work and procure contractors for the EPA's indoor clean-up program, which is scheduled to begin on 9/3/02.

Infrastructure Improvements and Repair

- DEP has worked closely with the Department of Design and Construction to investigate the condition of existing sewers to recommend replacement, repair, or rehabilitation as necessary. DDC has performed the work as per DEP requirements prior to the start of new utility or street work.
- DEP expanded the scope of work for a water main replacement project to include streets around and in the vicinity of the WTC.

DEP Activity

1. EPA is waiting to hear from Washington for further direction as per the EPA talking point memo (sent Thursday under separate cover).
2. Scopes seem to be closer to completion; that is, no more significant changes. DEP will review on Monday to correct discrepancies between air scope and cleanup scope.
 - a) DEP and FEMA Legal Departments want to review final scopes before contracting process starts.
 - b) Changes made to scope over the last week include:
 - Requiring ceiling and walls to be included in common space cleanup.
 - Residents will now have the option of having impermeable walls and floors wet wiped.
 - Materials that cannot be effectively cleaned as identified by EPA, may be disposed of (as ACM waste) with authorization of the owner.
 - The addition of wipe samples for dioxin, total metals and mercury up to a max of 50 units.
 - Requiring air samples to be taken in common areas after cleanup.
 - Personal air monitoring turn around time within 24 hours of collection (OSHA wanted this).
3. These additions added to the cost of the matrix. FEMA staff has been notified verbally of the matrix change and DEP will send out the revised matrix by end of the day. Total dollar difference is _____.
4. NYS Attorney General's Office met with EPA and expressed concerns regarding lead (actually lead paint) in people's apartments. Additionally, they believe that all cleanups have to be treated as minor asbestos projects and thus DEP/DOL regulations apply. This is not our view or EPA's. I have forwarded all the relevant materials to Russell Pecunies with a copy to Mark Hoffer. EPA's Legal Department is speaking to the Attorney General's Office.
5. EPA's pilot cleaning project being conducted at 110 Liberty Street expects to be completed by the first week in August. No sample results are available, however, the project manager seems happy with the progress so far. The results will be more telling.
6. We are still drafting the bid sheets for the scopes. Air monitoring is completed and cleaning still undergoing modifications. Once finalized, they will be reviewed by Contracts.
7. EPA is meeting with the Red Cross today to finalize the agreement regarding relocation of tenants.

DEPARTMENT OF ENVIRONMENTAL PROTECTION ASBESTOS CONTROL PROGRAM

WTC Activities

1. Staff performed site visits to determine the activities conducted by building owners and provide building owners or managers with the advisory " Building Maintenance Issues Involved in Reopening Buildings" and to request copies of any air tests performed after clean-up.
2. Staff responded to telephone inquiries from building owners, tenants and consultants from 8:00 a.m. to 8:00 p.m., seven days a week for two months.
3. Air sampling activities
 - a. At ground zero – ongoing from Sep. 11
 - b. Outer boroughs (five locations) – from Sep. 14 to Oct. 1, 2001
 - c. In front of 4 schools in WTC vicinity - ongoing from October 4, 2001
4. Staff also conducted inspections where a complaint or a telephone notification was received or where building owners requested assistance.
5. Press release announcements to the public to contact DEP Help Center with any concerns during re-occupancy. Staff responded to sites and performed inspections.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Activities

- Initial Response and Assessment
- Coordination with OEM, EPA and DOS for Clean-up activities of Streets, Sidewalks & Common Areas
- Coordination with OEM for Street openings after assessment of air monitoring results
- Participated in daily meetings with EPA, NYS DOH, NYSDEC and other City agencies with respect to the clean-up activities and results of air samplings in and around ground zero.
- Developed and distributed advisories
 - Direct distribution at building sites
 - Community Assistance Desk at 110 Maiden Lane
 - Real Estate Board
- Telephone assistance to building owners, tenants, contractors, and consultants 12 hours/ day for 2 months.
- Press release to contact DEP 24-hour HELP Center with re-occupancy concerns. Staff responded to sites, performed inspections, and recommended actions.
- Site inspections & Building Surveys.
- Air sampling activities
 - Ongoing at Ground Zero from September 11, 2001
 - Five locations outside of WTC Vicinity from 9/11 to 10/1/2001. (Outer Boroughs)
 - In front of four schools in the WTC Vicinity
- Review of sampling data submitted by building owners & ongoing
- Review of scopes of work for clean-up of ACM and processing of emergency notifications. Inspections and follow-up inspections were performed at all these sites.
- Developed emergency certification procedures and offered daily certification examinations to ensure a properly trained and qualified work force was available to perform necessary clean-up activities.

10/4/02

**New York City Department of Environmental Protection
Bureau of Environmental Compliance**

J
Exterior Clean-up Program

The NYCDEP initiated a program to perform clean-up of exterior building surfaces with funding provided by FEMA. Initially, the Department performed outreach to building owners and responded to hundreds of inquiries from the public regarding testing and interpretation of results. Information was provided at the Department's web site, door-to-door visits, and by telephone. In January 2002, staff began surveying buildings block by block for visible debris on exterior building surfaces (roofs, facades, setbacks, courtyards, alleys, etc.). These inspections were performed at 1073 buildings. During the surveys, building owners and managers were provided with guidance for the assessment and clean up of the debris. Requests for environmental sampling results were also issued. We continue to respond to requests from the public and survey for the presence of visible debris.

NYCDEP hired contractors began cleanup activities in June 2002. To date, the clean up activities of exterior building surfaces have been completed at 159 buildings. Ninety-seven (97) buildings were re-inspected and were confirmed as cleaned by the building owners. We have 33 buildings that are currently being cleaned or will be starting during the next week. Less than 30 building owners/managers remain on the list of requiring follow up for cleaning activities. We anticipate the program to be completed by the end of October.

Unoccupied Buildings with Visible Debris

The NYCDEP has undertaken the interior cleaning activities of the remaining unoccupied buildings. Site-specific cleaning activities were developed. Two contracts were awarded, one for the cleaning activities and one for the project monitoring and testing.

On September 12, 2002, the cleanup activities of 125 Cedar Street were initiated. These clean-up activities included provisions for pre- and post-clean up environmental sampling. Department representatives met with tenants and discussed clean up activities. Walkthrough visits were performed with tenants on multiple days and efforts were coordinated with tenants and the building management. The cleaning activities are still underway. On Thursday, October 3, 2002, Department representatives completed a preliminary inspection of the building and identified some areas that required additional clean up efforts. The cleaning of the residential portion of the building is at its final stages. Re-occupancy will not be approved until the cleaning meets our satisfaction and the post-cleaning environmental sampling meets the clearance criteria levels.

The Department has met with representatives and residents of 114 Liberty Street and discussed cleanup options. The Department has performed site visits, surveys, and assessments and has developed the scope of work for the cleanup of the apartments, the HVAC systems, and the project monitoring and environmental sampling. The developed documents were sent to the



building management and residents and further actions are pending their decisions. The building is currently unoccupied.

Indoor Clean up Activities

The Department developed a scope of work for the indoor cleaning activities. After multiple meetings with the USEPA and the USEPA meetings with local representatives and organizations, the USEPA modified the scope of work. The NYCDEP went out to bid with the scopes of work developed by the USEPA. The Department procured the contractors for the USEPA indoor residential clean-up program. In order to facilitate the management of the program lower Manhattan was subdivided. The program includes four monitoring and environmental sampling contractors, four clean-up contractors, and the hotline-operation contractor. The hotline was extended through December 28, 2002.

Residents may request cleaning and testing, testing only, reimbursement for an HEPA-equipped vacuum and/or an information packet. As of October 4, 2002, 5433 requests were received by the hotline. 4261 residents have requested cleaning and testing and 1123 residents have requested testing only.

Initial cleaning efforts that included wet wiping of surfaces and the use of vacuums equipped with HEPA filters were effective in cleaning surfaces impacted by debris. The available sampling information has not indicated the need for residents and visitors to be concerned.

**New York City Department of Environmental Protection
Bureau of Environmental Compliance**

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The Department has met with representatives and residents of 114 Liberty Street and discussed cleanup options. The Department has performed site visits, surveys, and assessments and has developed the scope of work for the cleanup of the apartments, the HVAC systems, and the project monitoring and environmental sampling. The developed documents were sent to the

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Department of Environmental Protection's Exterior Clean-up Program

HC
Accomplishment 5 BEC
8/23/02

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- The Exterior Clean Up Program was initiated on 6/3/02, and is still in progress
- Building owners/managers whose properties were identified as having WTC debris were sent license agreements to allow work to proceed.
- Three abatement contractors, chosen through the City's procurement process, are cleaning exterior building surfaces under DEP's direction and oversight.
- A third party air-monitoring firm, also chosen through the City's procurement process, performs air sampling during clean-up activities.
- The clean-up work includes installing barriers, collecting all bulk debris, HEPA vacuuming and wet wiping surfaces, and a final wash down of the included surfaces. Water collection barriers are set up when necessary. Collected water is filtered.
- To date, the DEP has not received license agreements from all building owners/managers. Staff continues to contact building owners regarding the program and return of the agreement.
- The projected completion date of the Exterior Clean Up Program is 10/31/02.
- Orders to abate will be issued to building owners when necessary. Building owners refusing to take advantage of the program will be mandated to pay for an appropriate clean up.
- The DEP Help Center continues to take information from individuals wishing to report visible debris on exterior surfaces. The Help Center is at (718) DEP-HELP and operates 7 days a week, 24-hours a day.
- DEP has inspected 1,054 buildings in and around lower Manhattan.

Buildings surveyed, to date	1054
Buildings without debris on exterior surfaces	747
Buildings with exterior debris	307
Buildings cleaned by building owners and re-inspected by DEP, to date	70
License agreements received from building owners	152
Buildings cleaned by DEP contractors, to date	115

5/14/02

Department of Environmental Protection's WTC Chronological History

- Initial response to Ground Zero by the Division of Emergency Response and Technical Assessment (Hazmat).
- DEP Hazmat took over first response activities in conjunction with the Fire Department who lost a significant number of Hazmat employees responding to the incident.
- DEP Hazmat performed entries into ground zero and beneath the World Trade Center. These confined space entries involved performing monitoring and assessment of atmospheric conditions at subsurface levels.
- On September 12, DEP began operating a network of outdoor (or "ambient") fixed air monitors that have been used to date for monitoring asbestos levels. Air sampling activities included the outer boroughs through 10/12/01, and included in front of four schools in the vicinity of the WTC site.
- DEP worked daily with EPA, NYSDOH, NYSDEC and its sister agencies with respect to the clean-up activities and results of air sampling in and around ground zero.
- DEP established a 12-hour hotline on 9/12/01 to provide assistance to building owners, tenants, contractors, and consultants, through 11/12/01.
- DEP conducted site inspections and distributed clean-up protocols to building owners through October 2001.
- To date, DEP has conducted exterior inspections of almost 1,000 buildings, river to river, North to Reade Street.
- As a result of complaints received by the agency, DEP has responded to 174 locations. In only one instance, has DEP ordered an asbestos abatement clean-up.
- To date, we have received over 120,000 indoor air samples from building owners in the affected area. Only 197 samples have been above the TEM level of 70s/mm².
- In early April after numerous public hearings, including the February 11th hearing conducted by Senators Clinton and Lieberman, Commissioner Ward commenced negotiations with EPA to begin to formulate a comprehensive plan that would restore public confidence in Lower Manhattan.
- On Wednesday, May 14, 2002, EPA took the lead at a press conference to announce a comprehensive program developed with DEP and FEMA.

- The key components of the comprehensive plan to be instituted on 6/3/02 are as follows:

Short term

- EPA is lead Agency
- Establishment of an EPA hotline
- Direct assistance to residents and residential building owners (clean-up and testing of apartments, as requested)
- Cleaning of unoccupied, uncleaned buildings. Six (6) as of this writing
- Clean-up of exterior buildings with residual WTC debris
- Professional review of HVAC systems as requested
- Distribution upon request, of HEPA Vacs through FEMA

Long term

- Pilot building cleaning to assess cleaning techniques
 - Create a database on private sector environmental testing results and clean-up activity
 - Background study of levels of potential contaminants
- DEP developed Scopes of Work for the hotline and clean-up activities, in conjunction with EPA, and is in the process of procuring the contracts to be managed by EPA.
 - DEP will be setting up meetings with local elected officials and groups prior to the commencement of the program. These meetings will be led by EPA.
 - A major symposium is being set up by DEP to be held at Pace University prior to the commencement of the program. This symposium will be led by EPA.

Avaltroni, Robert

From: Avaltroni, Robert
Sent: Tuesday, September 03, 2002 10:49 AM
To: Maldonado, Jane
Subject: FW: DEP contributions to Post-9/11 Recovery and Rebuild Effort

-----Original Message-----

From: Grob, Shauna
Sent: Monday, August 26, 2002 1:10 PM
To: Hoffer, Mark; Avaltroni, Robert; Farag, Magdi
Cc: Greeley, Douglas; Sturcken, Charles; Lanaghan, Mark
Subject: FW: DEP contributions to Post-9/11 Recovery and Rebuild Effort

This has been sent. Bob and Magdi -- Thank you for your quick responses.

Shauna

-----Original Message-----

From: Grob, Shauna
Sent: Monday, August 26, 2002 1:07 PM
To: 'eskyler@cityhall.nyc.gov'
Subject: DEP contributions to Post-9/11 Recovery and Rebuild Effort

Attached is a one-page summary of DEP's key accomplishments, as per your fax of 8/22. Please let me know if you need any additional information. I can be reached via email at shaunag@dep.nyc.gov or by phone at (718) 595-3480.



DEP Lower Manhattan
Work_08260...

Sincerely,
Shauna Grob
Chief of Staff

New York City Department of Environmental Protection
Contributions to Post-September 11th Recovery and Rebuilding

Exterior Building Clean-Up Program

- DEP performed inspections of exterior building surfaces, including the examination of roofs, facades, alleys, fire escapes and ledges for the presence of visible debris from the collapse of the World Trade Center (WTC). Buildings with visible accumulations of debris were identified, and building owners and managers were directed to have the material tested and cleaned up appropriately. Follow-up inspections were performed based on owner/manager written response.
- DEP's Exterior Clean Up Program was developed with funding from the Federal Emergency Management Agency to clean up exterior surfaces that still had WTC debris. The Exterior Clean Up Program was initiated on 6/3/02, and is still in progress. The projected completion date is 10/31/02.
- Building owners and managers whose properties were identified as having WTC debris were sent license agreements to allow work to proceed. Three abatement contractors, chosen through the City's procurement process, are cleaning exterior building surfaces under DEP's direction and oversight. A third party air-monitoring firm, also chosen through the City's procurement process, performs air sampling during clean-up activities. The clean-up work includes installing barriers, collecting all bulk debris, HEPA vacuuming and wet wiping surfaces, and a final wash down of the included surfaces. Water collection barriers are set up when necessary. Collected water is filtered.
- To date, the DEP has not received license agreements from all building owners/managers. Staff continues to contact building owners regarding the program and return of the agreement. Orders to abate will be issued to building owners when necessary. Building owners refusing to take advantage of the program will be mandated to pay for an appropriate clean up.
- The DEP Help Center continues to take information from individuals wishing to report visible debris on exterior surfaces. The Help Center is at (718) DEP-HELP and operates 7 days a week, 24-hours a day.
- DEP has inspected 1,054 buildings in and around lower Manhattan. The following are the results of these inspections:

Buildings without debris on exterior surfaces	747
Buildings with exterior debris	307
Buildings cleaned by building owners and re-inspected by DEP, to date	70
License agreements received from building owners	152
Buildings cleaned by DEP contractors, to date	115

Support for EPA's Residential Indoor Clean-Up Program

- DEP worked with the EPA to facilitate procurement for the EPA's help line for Lower Manhattan residents to request testing and cleaning of their apartments. The help line was opened on 6/3/02.
- DEP has also worked with the EPA to develop scopes of work and procure contractors for the EPA's indoor clean-up program, which is scheduled to begin on 9/3/02.

Infrastructure Improvements and Repair

- DEP has worked closely with the Department of Design and Construction to investigate the condition of existing sewers to recommend replacement, repair, or rehabilitation as necessary. DDC has performed the work as per DEP requirements prior to the start of new utility or street work.
- DEP expanded the scope of work for a water main replacement project to include streets around and in the vicinity of the WTC.

SAMPLE OF INITIAL WTC INSPECTIONS

World Trade Center Emergency Response Inspections conducted on September 23, 2001 – Carlstien Lutchmedial

310 Greenwich St – Met with Superintendent Vincent Hernandez (212) 962-3530. He said that the building did not get any of the debris from the WTC incident. We were unable to get into any of the apartments with windows. Inspection of the roof revealed that it was free of any suspect material. I was able to look into the terraces of the south side of the building from the roof and did not see any suspect debris. Also the surrounding yard of the building did not have any suspect material.

100 Church Street – At the building I met Frederick B. Maier and John Leonard of LVI Environmental Services Inc and Joseph Cianci of Ambient Group. Cianci said that he was currently sampling each floor and taking ten bulk samples per floor. They said they were there to provide the owner with a bid for the clean up. LVI said there plan was to put the entire building under negative air and do the cleanup. I also spoke to Marc Stein {(212) 971 0111 xt 177} the building owner. He said that he was presently accepting bids from various contractors. He estimates that the clean-up project should not take more than three weeks.

217 Broadway – I met Scott Lawler the Property Manager. He said that at this time the contractor AA Services did not get approval to bring their truck into the area so the cleanup did not start. AA is first scheduled to do the roof then the interior of the building.

222 Broadway – Building locked.

90 West Street/140 Cedar Street/21 Albany Street- Met with James Hall of Trade Winds Environmental Restoration Inc. he informed me that they were hired to pump out the water from the basement of the building. This building did not have power at this time. The water was being pumped into the sewer.

40 Rector Street – I met Joe Kelleher the Property Manager. At this time PAL was on site cleaning the roof and changing HVAC filters. He said that they were awaiting the insurance adjusters to evaluate the damage and hopefully Monday September 23, 2001 the clean up can begin.

33 Maiden Lane – the Chief Engineer Walter Sheering was on site. He took me to the 5th floor where I met Kenneth W. Houseman of Quest – 3rd party air monitor. Houseman informed me that they were currently working on the second floor. We proceeded to the second floor where I observed workers HEPA and wet wiping surfaces. The windows on the floor 2, 3, & 5 are sealed windows. Houseman explained that the cleaning they were doing were to err on the safe side because of the positive sample obtained. This sample most likely came from debris that was tracked into the building. I did not see any suspect debris of any of the surfaces.

World Trade Center Emergency Response Inspections conducted on September 24, 2001 – Carlstien Lutchmedial

100 Church Street – At the building I met two workers who identified themselves as employees sub contracted by Global Crossing (telephone Company) to run a generator to keep their switching gear in operation. They said that the room they occupied on the first floor was cleaned by their company. Also that the owner made them sign a waiver of all liabilities before they could occupy the space. I was unable to locate any building rep on site.

99 Church Street – on site was Robert Ryan and Tadeusz Lukasik handler supervisor # 80809 of Pinnacle Environmental Corp. they said that they were doing a complete interior cleaning of all 11 floors. They had already completed the exterior of the building. A worker decon was set up on the first floor. Inspection revealed that most of the floors were completed. ATC was on site conducting air monitoring. Ryan was informed to send the final clearance to DEP.

90 Church Street – met Postal Police officer Bellamy in front of the building. He said that there was no one in the building. I went into the lobby and noticed that power had not been restored to this building. Bellamy said that from time to time a crew comes in and removes mails from the building.

222 Broadway – Clean-up already completed at this building.

170 Broadway - Clean-up already completed at this building.

88 Greenwich/19 Rector St. – Clean-up of exterior being done by Pinnacle Environmental. Work is expected to be completed today.

Battery Park -South Tower next to American Express Building clean in progress.

40 Rector Street – Met with Joe Attanasio of Milro Restoration (516) 379-6100. He said they were hired by the owner to clean the entire building. His company was not an asbestos company. No air monitoring was being done. At this time they had just started work on the 8th floor.

World Trade Center Emergency Response

Inspections conducted on September 25, 2001 – Carlstien Lutchmedial

100 Church Street – Pecunies, Rogak and myself met the Chief Engineer. He said that they were still taking bids for the job. We inspected the 2nd floor and observed that it was in they same condition as last week. He did not know when the clean up would start.

40 Rector Street – Met with Joe Kelleher. He said that the building was without power because Con Ed was in the process of converting from temporary power to permanent power. This would take all day. Inspection of some of the floors revealed that there was no power. I also spoke to Scott Furman the attorney for the building. He said that they have done TEM's on the lobby, 16th, and 18th floors. However, by Friday 28th, 2001 they should have completed TEM throughout the entire building. We also discussed the tracking of debris into the lobby. Furman agreed to place a heavy duty industrial carpet so that tracked debris will be removed from footwear.

4 World Financial Center- met with John Martens of Merrill Lynch Corporate services (212) 449-0370. He said that Pinnacle was hired to do the clean up and Weston to do air monitoring. No one was working at this time.

3 World Financial Center – Met with Joe Fontana the security manager. He said that the got a positive sample on the 23 floor. The other floors were negative. However, they were still doing more test. I later met with Mike Foley the environmental manager (212) 972 –0651.

2 World Financial Center – met with Wojciech Olsewski # 80793 a handler supervisor. At this time they were cleaning the lobby of the building. This had been requested by DOH because of the large amounts of rotted food that was in the cafeteria. GPS was the 3rd party air monitor on site.

90 West Street – all windows blown out. Building is unoccupied.

85 West Street – Marriott Hotel at this time LVI's, Judy A. Gilbert was on site with the Building Manager. They have planed for now, to start the clean up tomorrow. The entire building is scheduled to be cleaned as ACM contaminated. At this time they building was vacated and had no power.

53 Park Place - only a security guard was at the front desk. He was given information to pass on to management.

75 West Street – Building with major damage. Abandoned at this time.

99 Washington St. – This a parking lot with 70 cars at this time. There is heavy debris accumulations on every surface. The manager Juan Acevedo and another employee were washing the cars at this time. They are not asbestos workers. This work is being done as a regular car wash operation.

30 West Broadway – building has some structural damage. No one in building at this time.

World Trade Center Emergency Response
ATSDR Inspections conducted on December 6, 2001 – Carlstien Lutchmedial

120 Greenwich Street – inspection of the front entrance to the lobby where a positive sample had been observed revealed that the area was now clean. No debris was observed on the metal ledges which supported the glass façade. Inspection of the roof revealed that it was also clean. No visible material observed.

250 South End Ave – inspection of the courtyard revealed that there were garden troughs with plants and trees. Among the plants visible debris was observed. In some places large chunks could be seen. The courtyard itself was very clean, except for a chunk of debris at about the middle of the yard. A sample was taken of this material. The location (west side courtyard) of the positive sample taken by ATSDR a few weeks ago was now clean. In addition, a sample was taken from the south west corner trough and the middle north end of the courtyard through. All samples were positive for ACM.

80 Battery Place – inspection revealed that the lobby was very clean. The superintendent of the building said that they had clean/vacuumed the lobby after the ATSDR sampling. The sample that had been observed here was a dust sample taken by micro vacuum.

ATSDR Inspections conducted on December 18, 2001 – Carlstien Lutchmedial

55 Liberty Street – inspection of the front of the building, sidewalk, and curb revealed that there was no suspect material. A sample of a sandy material was taken at the curb and was negative for ACM.

450 North End Ave – inspection revealed that there were numerous areas between the cracks of the tiles on the roof which had suspect material. Two samples were taken. One was positive for ACM. Clean up was done the following day.

250 South End Ave – no clean up has taken place. Owner's representative informed again of the need to clean the courtyard.

World Trade Center Emergency Response Inspections conducted on December 15, 2002– Carlstien Lutchmedial

100 Church Street – At the building I met one of the workers who were on a lunch break. She said that at this time they were doing general cleaning. All ACM related work had been completed last week.

90 Trinity Place – the school is locked at this time. A construction crew was in front the building a partition on the sidewalk enclosing the entire school front. Is first scheduled to do the roof then the interior of the building.

100 Trinity Place – ATC was on site conducting various air contaminants sampling. Except for Asbestos fibers. This they said had been done last week and results were good. They said that three samples for lead were high in the cafeteria and room 207. As a result additional cleaning was being done. Air Sampling was being done outside the building for ACM by a DEP contractor.

125 Cedar Street/ - Met with Monte Cesta of Samson Management. He said that they tenants had accepted their sampling results and they additional sampling which was agreed along with DEP sometime ago was not being done. Presently, the apartments were being cleaned as a regular cleaning job.

250 South End Ave – I met the doorman who informed me that no work has been done on the courtyard. I asked him to call Joe Piastra, which he did. However, Piastra wasn't not in and a message was left for him to call DEP. Inspection of the courtyard revealed that it was in the same condition as when the sampling was done. It was observed that the courtyard was being used by construction workers to store old windows.

PS 234 – Chambers & Greenwich St – Met Kwame Fosu of SCA. Kwame said the school was scheduled to be reopened on February 4th, 2002. All sampling for ACM was negative. The school appeared to be very clean. On the 3rd floor, plaster repair had been done to fix cracks on the walls. This had left lots of white dust in classrooms where the work had been done. Also present on site KISS construction. They were on site to clean up the dust. Kwame said the plaster material was negative for ACM.

PS 89 Chambers & Westside Hwy – school is cleaned.

World Trade Center Emergency Response Inspections at 105 Duane Street

December 11, 2001 – On arrival the porter, Joe insisted that DEP return during normal working hours. He spoke to the building manager via telephone. After about 10 minutes Joe said I will have to return the next day. He also said that the work on the duct cleaning had stopped.

December 12, 2001, 10 am – on arrival I met Mr Joel Kupferman an attorney with NY Environmental Law & Justice Project and a group of tenants outside the building. They informed me that they were concerned about the air quality in the building and that they wanted the duct cleaning work to be stopped. Inspection of the 10 floor and 2nd floor HVAC room revealed that there was no visible suspect material. Ms Lisa Bergenty a building rep said that over 250 TEM sample taken by ATC labs were negative for ACM. She also said that the tenants have the option of requesting additional testing. Presently, they had stopped the work being performed by TECH CLEAN to address the tenants concerns. That they were also willing to treat the duct cleaning as an asbestos project. This information was relayed to the tenants and Mr Kupferman.

December 12, 2001, 10:15 pm – inspection was based on a request by DEP to MS Bergenty to conduct additional sampling on the 10th & 2nd Floor HVAC room. ATC was on site conducting aggressive TEM air monitoring. Five pumps were running on the 10th & 2nd floor. Results later submitted to DEP were negative for ACM.

December 20, 2001 - The purpose of the visit was to determine whether any more sampling was required of the ventilation system. Present were Howard Bader – a consultant for the tenants association, two tenants were present, a representative of Tech Clean (duct cleaning company), ATC Labs rep, Lisa Bergenty of Relations Management (bldg. Mgt. Co.) a DOH – Peter Stallbohm, Brendan Farrell – Super. Some other helpers were present.

I requested from Mr. Bader to take us wherever he deemed appropriate to start. The 10th floor diffuser was chosen. On opening, we found that there was no visible dust. Bader also, used a portable monitor to check for respirable fibers and found none. It was then suggested by him that this might be the condition of all the other locations. As a result, no more inspection was necessary. I repeated to him that I would be happy to look at more.

One of the tenants, who was present, wanted her apartment vent inspected. This we did and found that there was minor dust accumulation, which appeared to be very old. Bader said that he might take a sample. It was agreed that the owner would treat the clean up of the duct as though it was an ACM project. However, this is on hold because of other concerns by the tenants.

DOH also agreed that there was no concern reference ACM. It was acknowledged that the owners are done more than sufficient sampling. The tenants concern was that some procedures were not being followed. Such as, the plastic covering the duct had fallen off or had holes. The tenants also had in their possession a document from EPA dated December 19, 2001, which indicated DEP methods, were inaccurate.

Mr. Kupperman (tenants attorney) met me outside the building and expressed his concern that DEP protocols were incorrect based on the EPA document.

Before leaving the site I again requested if there was any other concerns regarding ACM and was told "no." Based on my inspection there was no suspect material to be sampled.

The owner is still agreeing to do any more sampling required by the tenants. Also, it was agreed that DEP would be notified when any duct cleaning begins.

December 29, 2001 – Inspection revealed that the duct was being cleaned in the HVAC room. The risers have been closed off at the fan room. Workers were in PPE using HEPA vacuum to do the cleaning. ATC was also present conducting air monitoring. An inspection request of the vent in an apartment on the 14 floor revealed that there was no visible suspect material.

NYC DEP Completes Downtown Cleanup

On March 31, 2003, the New York City Department of Environmental Protection (DEP) completed work removing potentially hazardous dust and debris that accumulated on the roofs, windows and facades of downtown buildings following the World Trade Center collapse. DEP crews cleaned the surfaces of 221 buildings, or more than 3.6 million square feet of exterior building space, during the 10-month long project.

The DEP began inspecting buildings in Lower Manhattan in January 2002 for exterior residue containing more than 1 percent of asbestos, the threshold set by the EPA, the U.S. Department of Labor, New York State and the DEP. Among a small sample of buildings close to the WTC site, 48 percent tested positive for asbestos contamination. This finding prompted the DEP to begin a comprehensive inspection of the more than one thousand buildings in the area.

"There was great concern among people in Lower Manhattan," said Robert Avaltroni, Deputy Commissioner of the DEP. "We needed to act quickly to relieve that anxiety so people who live and work in the area could move forward with their lives."

The DEP inspected 1,073 buildings in Lower Manhattan, of which 323 – approximately 30 percent – were found to have some form of asbestos-contaminated WTC debris and were earmarked for cleaning to help alleviate public concern regarding potential exposure to asbestos and other contaminants.

→ The DEP notified the owners of the affected buildings, giving them the option to have the cleanup done by the DEP or through an independent contractor of their own choosing. The owners of 102 buildings elected to have their buildings cleaned independently. (The DEP has since re-inspected those buildings and certified that asbestos-containing material had been removed.)

From June 2002 through March 2003, DEP cleanup crews cleaned the surfaces of 221 buildings, totaling approximately 3.7 million square feet of exterior building space. DEP crews reached building surfaces with cherry pickers, scaffolds and platforms. They used low-pressure spray-guns as well as their own hands to clean the debris, often working around the clock, weather permitting. Throughout the process of inspection, cleanup and re-inspection, the DEP worked closely with the Federal Emergency Management Agency (FEMA) and the EPA.

Liz Berger, a long-time resident and employee in the area, said she appreciates the effort. "The City and the DEP were genuinely interested in understanding the issue and solving the problem," she said. "Thanks to their dedication, I feel much better in my apartment and in the building where I work."

"We're proud to have done our part to make Lower Manhattan a better place to live," said Avaltroni.

For more information on the DEP's exterior cleanup program and other environmental initiatives, please visit the DEP's web site.

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09/23/01

Buildings Visited on Down Town

1 West Side Street Beth Triola Building Mgr Air Test done, Flyer given to the manager

17 Battery Place Air Test done Flyer given to John Occannelo maintainece personnel

28 Washington & 19 West Street Joe Garcia Security Guard, Flyer given no work was done

Battery Parking garage-Edison parking. Par environmental Sign at the entrance
45k/14,810ln/ft dumpster in front with signs

21 West ST. - Air Monitoring was done cleaning is on going in the interior 3,9,22,Roof, Gus Flores building super

11 Greenwich st. Locked flyer was inserted

25 Greenwich St. Locked, flyer was inserted Building is used by the post office.

17 Trinity Place, Flyer was inserted , no one was working on the building,it's a deli.

44 Trinity Place, Locked flyer inserted.

46 Trinity Place, Locked flyer inserted .

50 Trinity Place, Locked, flyer Slipped in.

11 Rector Street, Locked flyer inserted.

98&100 Greenwich Street, Locked flyer inserted.

23 Thames, Nasdaq

86 Trinity Place Nasdaq Mr Thomas Long building Engineer air test done flyer given.

113-123 Greenwich Street, Air Test done Mr Thomas Long building Engineer flyer given.Nasdaq.

114 Greenwich Street, Building locked flyer inserted.

75 Greenwich Street, Locked, flyer inserted.

81 Trinity Place, Flyer given.

- 67 Greenwich Street, Building locked flyer inserted.
- 88 Greenwich Street, Air monitoring, Michael Riegler-Owner, flyer given.
- 76 Washinton Street, Locked,flyer inserted.
- 78 Washington Street, Flyer goiven
- 80 Washington Street, Flyer given.
- 90 Washington Street,Bank of ny. Building closed,flyer inserted.
- 33 Rector Street, Goldman pls. (212-925-2415) locked, flyer inserted.
- 40 Rector Street, Friday, air testing done,filters changed, Jack Meyer-fire Safety director.
- 38 Rector Street, Building locked, flyer slipped.
- 16 Rector Street, locked flyer slipped.
- 14 Rector Street, locked flyer slipped in.
- 2 Rector Street, flyer given.
- 941/2 Greenwich Street, flyer given.
- 96 Greenwich Street, locked, flyer inserted.
- 98 Greenwich Street, locked, flyer inserted.
- 100 Greenwich Street, locked flyer inserted.

Inspectors:Ramasubbu Rammohan and Sam Nebedum

**The following Buildings on Broadway were inspected
by Mr. Plumptre and Okello**

September 22, 2001

182	183
180	181
176	179
170	177
160	175
150	173
140*	115 Inspected- Mr. Jan Wolkowicz of Crmco Environmental on site.
120*	111 Inspected-Clean up completed. Mr. Kevin Hoey-Building Manager.
100	71
80	65 Inspected- Clean up in Progress. Mr. Oleg Koledenkor
52	61
42*	55*
32	47
26	45
2*	39
	29
	25*
	5
	1

Note.

- 1. The * buildings were cleaned up by in-house workers and air monitoring was requested from the building representatives.**
- 2. DEP Flyers were given and left in the entire listed buildings.**
- 3. Air Monitoring results were requested from building 115 and 65 for the ongoing cleanup including completed 111 Broadway.**

- 4. Flyers were left underneath the doors of all locked entrances of contaminated stores from 180 Broadway to 140 Broadway except a Burger King store at 182 Broadway which the flyer was given to the store manager.**
- 5. Most of the buildings were without building Engineers and Flyers were left with the security.**
- 6. Most of the offices from 140 Broadway to One Broadway have been reoccupied for businesses and were running with outside generators.**
- 7. Almost all the building on the entire street were still with dusts on the outside windows.**

09/22/01

Buildings Visited on Broadway

- 196** Building was locked and information flyer was inserted through the shutter
- 198** Met maintenance worker Al Myrie and gave the information flyer
- 200** Modells Sporting – Locked and flyer was inserted
- 202** Portabella Garments- Information flyer given to a worker
- 204** Locked- Information flyer inserted
- 150** Fulton Street- Mrs Field –restaurent –workers washing counters, information flyer given to the manager.
- 195** Front façade washing was ongoing. Information flyer was given to the Director of facility, who doesn't know the details of any ACM clean-up and said will inform the individual who handles Asbestos projects for the building.
- 197** Church- Information flyer was given to father, who claimed that someone was working on arranging the contractor. Air monitoring was advised.
- 222** Pinnacle Environmental already completed a major clean-up in various floors and air montoring results were requested. Spoke to the Engineer Jim Tinesky. The clean-up was started on 9/13/01.
- 217** As per Property Manager Scott Laylor, bulk sampling was collected on 10th and 8th floor roofs and 2% ACM detected on the 10th floor. AA Services was performing the clean-up on the 10th floor roof. Air results requested.
- 225** Tony Velez, Assistant Super- Information flyer was given
- 233** Woolworth Building- Vincent Baffa, Building Manager- Air samples collected several occasions after the WTC attack and no positive readings found. Recently samples collected last night and results were un known. Sampled locations –lobby, 9th, 14th floors. Information flyer was given to Mr. Baffa and air sampling was requested.
- 250** John Migeo, Building Engineer- Air sampling was conducted couple of days ago and clearance levels were met. Building Owners ,Amtrust (917) 939-2504. Information flyer was given and air results requested.

- 253 Information flyer was given to the security guard and no one was in the building.**
- 258 Jhonny, the engineer, the information flyer was given.**
- 261 Building was locked. As per the notice posted on the entrance door, air samplings conducted throught the building. Tudor Realty (212) 557-3600**
- 270 As per the security guard, AES performed a clean-up and don't know the exact dates. Information flyer was given to the guard and was advised to handover to the building manager.**

Inspectors: Ramasubbu Rammohan and Dinesh Shah

9/24/01 Notice To Building Owners Issued On Chambers Street

77 Locked, flyer inserted
79 " "
83 " "
85 Flyer was given at the jewelry store
89 flyer given to the building superintendent
91-95 flyer was given
97 locked flyer was inserted
102 " "
100 " "
98 " "
96 " "
94 " "
92 " "
90 " "
88 " "
86 " "
110 " "
112 " "
114 " "
116 " "
118 " "
120 " "
122 " "
124 " "
126 " "
85 West Broadway, locked, flyer inserted
123 Locked, flyer inserted
121 Flyer was given at store front
119 Flyer was given at the bookstore. A/C cleaning scheduled for 9/25/01
115 DC37 Health Clinic, Flyer given to the administrator and the super. A/C filter
 replacement scheduled on 9/25/01. Roof was already cleaned.
113 Locked and flyer was inserted
111 flyer was given at the storefront
107 Locked and flyer was inserted
105 " " "

Note: Even numbers (south side) of Chambers Street were still barricaded with fencing. All the buildings from East Broadway to West Broadway on Chambers Street were covered.

Inspectors: Ramasubbu Rammohan & Michael Davis

DEP'S AMBIENT ASBESTOS AIR SAMPLING RESULTS - SUMMARY

- 3540 samples collected from network of stations around ground zero
- 616 samples collected in front of 4 schools
- 408 samples collected from outer boroughs
- Total number of samples 4564
- Only 9 (0.2%) samples violated the std

3/6/02
as of 2/6/02

BUILDING INSPECTIONS

Exterior Inspections(100% of buildings)	452
(Façade and/or Roof and/or setback)	
• Buildings with varying degree of debris present	211

COMPLAINTS

• Complaints recd. since 9/11	75
• Complaints responded	75
• Complaints resolved to date	51
• Violation issued	1
• Clean-up ordered	1

Department of Environmental Protection

- EPA has taken the lead in announcing a comprehensive program developed with DEP and FEMA to restore public confidence in Lower Manhattan. DEP (Commissioner Ward) commenced the negotiations that resulted in the comprehensive plan.
- The key components of the comprehensive plan to be instituted are as follows:

Short term

- Establishment of an EPA hotline
- Direct assistance to residents and residential building owners (clean-up and testing of apartments, as requested)
- Cleaning of unoccupied, uncleaned buildings.
- Clean-up of exterior buildings with residual WTC debris
- Professional review of HVAC systems as requested
- Distribution upon request, of HEPA Vacs through FEMA

Long term

- Pilot building cleaning to assess cleaning techniques
- Create a database on private sector environmental testing results and clean-up activity
- Background study of levels of potential contaminants

- To date, DEP has received over 120,000 indoor air samples from building owners in the affected area. Only 197 samples have been above the TEM level of 70s/mm^2 .
- To date, DEP has conducted exterior inspections of almost 1,000 buildings, river to river, North to Worth Street. Buildings identified with WTC debris on the facades/roofs will be cleaned by licensed asbestos contractors and monitored by DEP.
- As a result of complaints received by the agency, DEP has responded to more than 200 locations. In only one instance, has DEP ordered an asbestos abatement clean-up.

Long term

- Pilot building cleaning to assess cleaning techniques
 - Create a database on private sector environmental testing results and clean-up activity
 - Background study of levels of potential contaminants
-
- Air Monitors – Since September 12, DEP has been operating a network of 24 outdoor fixed air monitors. The results of which are posted on DEP’s website.

 - To date, DEP has received over 120,000 indoor air samples from building owners in the affected area. Of the samples provided, less than 1% were above re-occupancy standards for asbestos and, in all these cases, a proper cleanup was conducted.

 - To date, DEP has conducted exterior inspections of almost 1,000 buildings, river to river, North to Worth Street. Buildings identified with WTC debris on the facades/roofs will be cleaned by licensed asbestos contractors and monitored by DEP.

 - As a result of complaints received by the agency, DEP has responded to more than 200 locations. In only one instance, has DEP ordered an asbestos abatement clean up.



5/20/02

DEP HIGHLIGHTS

Department of Environmental Protection

- EPA has taken the lead in announcing a comprehensive program developed with DEP and FEMA to restore public confidence in Lower Manhattan. DEP (Commissioner Ward) commenced the negotiations that resulted in the comprehensive plan.

- The key components of the comprehensive plan to be instituted are as follows:

Downtown

- Establishment of an EPA hotline
- Direct assistance to residents and residential building owners (clean up and testing of apartments, as requested)
- Professional review of HVAC systems as requested
- Distribution upon request, of HEPA Vacs through FEMA

Buildings (DEP's Responsibility)

- Cleaning of unoccupied, uncleaned buildings.
- Clean-up of building exteriors with residual WTC debris



Long term

- Pilot building cleaning to assess cleaning techniques
 - Create a database on private sector environmental testing results and clean-up activity
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- Air Monitors – Since September 12, DEP has been operating a network of 24 outdoor fixed air monitors. The results of which are posted on DEP's website.

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 - As a result of complaints received by the agency, DEP has responded to more than 200 locations. In only one instance, has DEP ordered an asbestos abatement clean up.



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.

New York City Department of Environmental Protection
Contributions to Post-September 11th Recovery and Rebuilding

Exterior Building Clean-Up Program

- ✓ DEP performed inspections of exterior building surfaces, including the examination of roofs, facades, alleys, fire escapes and ledges for the presence of visible debris from the collapse of the World Trade Center (WTC). Buildings with visible accumulations of debris were identified, and building owners and managers were directed to have the material tested and cleaned up appropriately. Follow-up inspections were performed based on owner/manager written response.
- DEP's Exterior Clean Up Program was developed with funding from the Federal Emergency Management Agency to clean up exterior surfaces that still had WTC debris. The Exterior Clean Up Program was initiated on 6/3/02, and is still in progress. The projected completion date is 10/31/02.
- Building owners and managers whose properties were identified as having WTC debris were sent license agreements to allow work to proceed. Three abatement contractors, chosen through the City's procurement process, are cleaning exterior building surfaces under DEP's direction and oversight. A third party air-monitoring firm, also chosen through the City's procurement process, performs air sampling during clean-up activities. The clean-up work includes installing barriers, collecting all bulk debris, HEPA vacuuming and wet wiping surfaces, and a final wash down of the included surfaces. Water collection barriers are set up when necessary. Collected water is filtered.
- To date, the DEP has not received license agreements from all building owners/managers. Staff continues to contact building owners regarding the program and return of the agreement. Orders to abate will be issued to building owners when necessary. Building owners refusing to take advantage of the program will be mandated to pay for an appropriate clean up.
- The DEP Help Center continues to take information from individuals wishing to report visible debris on exterior surfaces. The Help Center is at (718) DEP-HELP and operates 7 days a week, 24-hours a day.
- DEP has inspected 1,054 buildings in and around lower Manhattan. The following are the results of these inspections:

Buildings without debris on exterior surfaces	747
Buildings with exterior debris	307
Buildings cleaned by building owners and re-inspected by DEP, to date	70
License agreements received from building owners	152
Buildings cleaned by DEP contractors, to date	115

Support for EPA's Residential Indoor Clean-Up Program

- DEP worked with the EPA to facilitate procurement for the EPA's help line for Lower Manhattan residents to request testing and cleaning of their apartments. The help line was opened on 6/3/02.
- DEP has also worked with the EPA to develop scopes of work and procure contractors for the EPA's indoor clean-up program, which is scheduled to begin on 9/3/02.

Infrastructure Improvements and Repair

- DEP has worked closely with the Department of Design and Construction to investigate the condition of existing sewers to recommend replacement, repair, or rehabilitation as necessary. DDC has performed the work as per DEP requirements prior to the start of new utility or street work.
- DEP expanded the scope of work for a water main replacement project to include streets around and in the vicinity of the WTC.

Department of Environmental Protection's Exterior Clean-up Program

#5
Accomplishments BEC
8/23/02

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- Buildings with visible accumulations of debris were identified.
- Building owners/managers were directed to have the material tested and cleaned up appropriately.
- Follow-up inspections were performed based on owner/manager written response.
- The Exterior Clean Up Program was developed (with funding from the Federal Emergency Management Agency – FEMA) to clean up exterior surfaces that still had WTC debris.
- The Exterior Clean Up Program was initiated on 6/3/02, and is still in progress
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- To date, the DEP has not received license agreements from all building owners/managers. Staff continues to contact building owners regarding the program and return of the agreement.
- The projected completion date of the Exterior Clean Up Program is 10/31/02.
- Orders to abate will be issued to building owners when necessary. Building owners refusing to take advantage of the program will be mandated to pay for an appropriate clean up.
- The DEP Help Center continues to take information from individuals wishing to report visible debris on exterior surfaces. The Help Center is at (718) DEP-HELP and operates 7 days a week, 24-hours a day.
- DEP has inspected 1,054 buildings in and around lower Manhattan.

Buildings surveyed, to date	1054
Buildings without debris on exterior surfaces	747
Buildings with exterior debris	307
Buildings cleaned by building owners and re-inspected by DEP, to date	70
License agreements received from building owners	152
Buildings cleaned by DEP contractors, to date	115

10/4/02

**New York City Department of Environmental Protection
Bureau of Environmental Compliance**

✓
Exterior Clean-up Program

The NYCDEP initiated a program to perform clean-up of exterior building surfaces with funding provided by FEMA. Initially, the Department performed outreach to building owners and responded to hundreds of inquiries from the public regarding testing and interpretation of results. Information was provided at the Department's web site, door-to-door visits, and by telephone. In January 2002, staff began surveying buildings block by block for visible debris on exterior building surfaces (roofs, facades, setbacks, courtyards, alleys, etc.). These inspections were performed at 1073 buildings. During the surveys, building owners and managers were provided with guidance for the assessment and clean up of the debris. Requests for environmental sampling results were also issued. We continue to respond to requests from the public and survey for the presence of visible debris.

NYCDEP hired contractors began cleanup activities in June 2002. To date, the clean up activities of exterior building surfaces have been completed at 159 buildings. Ninety-seven (97) buildings were re-inspected and were confirmed as cleaned by the building owners. We have 33 buildings that are currently being cleaned or will be starting during the next week. Less than 30 building owners/managers remain on the list of requiring follow up for cleaning activities. We anticipate the program to be completed by the end of October.

Unoccupied Buildings with Visible Debris

The NYCDEP has undertaken the interior cleaning activities of the remaining unoccupied buildings. Site-specific cleaning activities were developed. Two contracts were awarded, one for the cleaning activities and one for the project monitoring and testing.

On September 12, 2002, the cleanup activities of 125 Cedar Street were initiated. These clean-up activities included provisions for pre- and post-clean up environmental sampling. Department representatives met with tenants and discussed clean up activities. Walkthrough visits were performed with tenants on multiple days and efforts were coordinated with tenants and the building management. The cleaning activities are still underway. On Thursday, October 3, 2002, Department representatives completed a preliminary inspection of the building and identified some areas that required additional clean up efforts. The cleaning of the residential portion of the building is at its final stages. Re-occupancy will not be approved until the cleaning meets our satisfaction and the post-cleaning environmental sampling meets the clearance criteria levels.

The Department has met with representatives and residents of 114 Liberty Street and discussed cleanup options. The Department has performed site visits, surveys, and assessments and has developed the scope of work for the cleanup of the apartments, the HVAC systems, and the project monitoring and environmental sampling. The developed documents were sent to the

building management and residents and further actions are pending their decisions. The building is currently unoccupied.

Indoor Clean up Activities

The Department developed a scope of work for the indoor cleaning activities. After multiple meetings with the USEPA and the USEPA meetings with local representatives and organizations, the USEPA modified the scope of work. The NYCDEP went out to bid with the scopes of work developed by the USEPA. The Department procured the contractors for the USEPA indoor residential clean-up program. In order to facilitate the management of the program lower Manhattan was subdivided. The program includes four monitoring and environmental sampling contractors, four clean-up contractors, and the hotline-operation contractor. The hotline was extended through December 28, 2002.

Residents may request cleaning and testing, testing only, reimbursement for an HEPA-equipped vacuum and/or an information packet. As of October 4, 2002, 5433 requests were received by the hotline. 4261 residents have requested cleaning and testing and 1123 residents have requested testing only.

Initial cleaning efforts that included wet wiping of surfaces and the use of vacuums equipped with HEPA filters were effective in cleaning surfaces impacted by debris. The available sampling information has not indicated the need for residents and visitors to be concerned.

Speech 3/13/03?

- New York City Hazardous Materials Response Plan describes responsibility of each agency. The agencies involved were OEM, Fire Department, PD, DEP, DOH and Sanitation.
- DEP interacts with other state and federal agencies including NYSDEC and USEPA.
- On 9/11/01, the plan was in operation. DEP began sampling to identify contaminants. Sampling for asbestos and other air contaminants (PCB, heavy metal, acid gasses, voc, semi volatiles) began immediately.
- Sampling was conducted on the pile and in areas impacted by debris as well as upper Manhattan and the other boroughs
- Other agencies (EPA, DEC) also conducted air sampling.
- DEP-RTK records showed chemical inventory of buildings. These were used to identify potential contaminants (PCB, heavy metal, acid gasses, voc, semi volatiles) we were concerned with. Also, obtained records from other agencies (Port Authority, etc.).
- DEP, EPA and DEC recognizing the length of time that the fire was going to continue, conducted air sampling to characterize smoke plume in Manhattan and the surrounding boroughs for an extended period of time.
- Ground water contamination was addressed by NYSDEC.
- Sewer and water mains (check with Doug)

Staten Island Incident Port Mobile Incident

- Fire Department was incident commander.
- DEP conducted air sampling in Staten Island and Brooklyn to determine levels of contaminants
- Through OEM, the results were disseminated to the Mayor, the public and other agencies.
- Air monitoring/sampling was conducted by DEP and EPA
- Same protocols followed regardless of magnitude of incident.

NYC DEP Contributions to Post September 11 Recovery Efforts

The NYCDEP, in conjunction with USEPA and FEMA developed the Downtown Reassurance Program to restore public confidence in Lower Manhattan. The key components of the program were:

- Establishment of an EPA hotline
- Direct assistance to residents and residential building owners for clean-up or testing of their spaces as requested
- Cleaning of unoccupied, uncleaned buildings
- Clean-up of exterior buildings with residual World Trade Center debris
- Clean-up of HVAC systems/Exhaust ducts identified as having World Trade Center debris
- Creation of a database of environmental testing results and clean-up activities
- Pilot building cleaning to assess cleaning techniques
- Background study of levels of potential concern

Deputy Commissioner Robert C. Avaltroni assisted me in the negotiations that resulted in the comprehensive plan and was given the sole responsibility of ensuring that the program was successful and timely. Starting in May 2002, D/C Avaltroni and his team, Assistant Commissioner Michael Gilsenan of the Bureau of Environmental Compliance and Rajappan Radhakrishnan, Director of the Asbestos Control Program, developed a flexible working plan that consisted of multiple tasks ongoing concurrently. This plan allowed these projects to start and finish in an orderly process.

Foremost on the team's mind was that all work done was as protective of the public as possible. To this end, a professional working team relationship was developed with US Environmental Protection Agency (EPA), Region 2. The environmental expertise that EPA brought to the project was indispensable. It was able to develop thresholds in the interior environment for containments that previously did not exist in that arena. DEP's extensive working knowledge of asbestos issues also contributed to the development of the asbestos threshold.

Secondly, DEP had to ensure that monies allocated for this project by the Federal Emergency Management Agency (FEMA) was spent wisely. DEP was able to gain FEMA's confidence with its well thought-out and accurate cost projections for each and every project undertaken. FEMA's confidence in DEP's numbers was such that, throughout the project, EPA was required to receive DEP's approval of their expenditures above and beyond the initial project work plan. The working relationship between FEMA and DEP is a model for government partnerships, the end result being that the public benefits.

The completion of this monumental project is at hand and DEP and its partners are in a position to return \$70 million to the City.† The return of these monies is no small feat and is being done in conjunction with FEMA. DEP was able to push its partners and the contractors to finish the project one year ahead of schedule. The Scopes of Work developed for this project were precise allowing no room for waste. Contract Change Orders were handled with an eye towards fiscal responsibility. Senior management meetings were constantly held to ensure continued progress was made and to identify and correct problems before they materialized. Innovative measures were used to speed up the public's response to the program resulting in fewer delays. These actions were all instituted without compromising the integrity of the overall mission to reassure the public that Lower Manhattan was, and is, a safe area to work and live.

I have included the highlights of each program dating back to May of last year when our Administration became involved in a project that was going nowhere. Today, we can take great pride in the accomplishments of this effort.

Exterior Building Clean-Up Program

- DEP performed inspections of exterior building surfaces, including the examination of roofs, facades, alleys, fire escapes and ledges for the presence of visible debris from the collapse of the World Trade Center (WTC). Buildings with visible accumulations of debris were identified, and building owners and managers were directed to have the material tested and cleaned appropriately. Follow-up inspections were performed based on owner/manager written response.
- DEP's Exterior Clean Up Program was developed with funding from the Federal Emergency Management Agency to clean up exterior surfaces of buildings that still had WTC debris. DEP staff developed scopes of work for the clean up and air monitoring. The Exterior Clean Up Program was initiated on June 3, 2002.
- Three abatement contractors, chosen through the City's procurement process, conducted the exterior cleaning of building surfaces under DEP's direction and oversight. A third party air-monitoring firm, also chosen through the City's procurement process, who performed air sampling during clean-up activities. The clean-up work included installing barriers, collecting all bulk debris, HEPA vacuuming and wet wiping surfaces, and a final wash down of the included surfaces. Water collection barriers are set up when necessary. Collected water was filtered.
- DEP contractors completed work removing potentially hazardous dust and debris that accumulated on the roofs, windows and facades of downtown buildings following the World Trade Center collapse. DEP contractors cleaned the surfaces of 221 building, or more than 3.6 million square feet of exterior building space, during the 10-month long project.

- DEP has inspected 1,073 buildings in and around lower Manhattan. The following are the results of these inspections:

Buildings without debris on exterior surfaces	750
Buildings with exterior debris	323
Buildings cleaned by building owners and re-inspected by DEP	102
Buildings cleaned by DEP contractors	221

Unoccupied Building Clean Up Program

- DEP's Unoccupied Building Clean Up Program was developed with funding from the Federal Emergency Management Agency to clean up unoccupied buildings that still had WTC debris. Two buildings, 125 Cedar Street and 114 Liberty Street, were identified. DEP staff developed scopes of work for the clean up and air monitoring. The scopes of work were given to the building owners and the tenants.
- Several inspections with tenants and owners were conducted by DEP to hear the concerns of all involved and ultimately to explain the Scopes of Work with each tenant / owner concerning their individual apartments.
- Two licensed asbestos abatement contractors (one for each building) were chosen through the City's procurement process to conduct the cleaning of building under DEP's direction and oversight. Two third party air-monitoring firms were also chosen through the City's procurement process to perform bulk, wipe and air sampling. Samplings were conducted prior, during, and post clean up activities.
- Both DEP and EPA reviewed the sampling results. Samplings were repeated when the results did not meet the clearance criteria. The buildings were handed over to the building owners / tenants after satisfactory results were obtained from the sampling.

Residential Clean up Program

- Assisted in the development of a Scope of Work for the establishment of an EPA Hotline
- Acted as the procurement entity for the EPA Hotline
- Developed estimates to secure FEMA funding
- Developed draft Scopes of Work for EPA
- Coordinated the final Scopes of Work with EPA after many discussions with local elected officials, local organizations and scientists.
- Developed contractor criteria for the procurement process
- Coordinated efforts between Corporation Counsel, DEP's and EPA's Legal Departments to secure access agreements and insurance requirements.

↓
get #'s from EPA

General

- Developed Scopes of Work and procured 17 emergency contracts for the downtown clean-up efforts.
- Represented DEP on Administrator Whitman's Indoor Air Task Force

New York City Department of Environmental Protection
Contributions to Post-September 11th Recovery and Rebuilding

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DEP Activity Post Sept 11

Department of Environmental Protection's Exterior Clean-up Program

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DEP Activity

1. EPA is waiting to hear from Washington for further direction as per the EPA talking point memo (sent Thursday under separate cover).
2. Scopes seem to be closer to completion; that is, no more significant changes. DEP will review on Monday to correct discrepancies between air scope and cleanup scope.
 - a) DEP and FEMA Legal Departments want to review final scopes before contracting process starts.
 - b) Changes made to scope over the last week include:
 - Requiring ceiling and walls to be included in common space cleanup.
 - Residents will now have the option of having impermeable walls and floors wet wiped.
 - Materials that cannot be effectively cleaned as identified by EPA, may be disposed of (as ACM waste) with authorization of the owner.
 - The addition of wipe samples for dioxin, total metals and mercury up to a max of 50 units.
 - Requiring air samples to be taken in common areas after cleanup.
 - Personal air monitoring turn around time within 24 hours of collection (OSHA wanted this).
3. These additions added to the cost of the matrix. FEMA staff has been notified verbally of the matrix change and DEP will send out the revised matrix by end of the day. Total dollar difference is _____.
4. NYS Attorney General's Office met with EPA and expressed concerns regarding lead (actually lead paint) in people's apartments. Additionally, they believe that all cleanups have to be treated as minor asbestos projects and thus DEP/DOL regulations apply. This is not our view or EPA's. I have forwarded all the relevant materials to Russell Pecunies with a copy to Mark Hoffer. EPA's Legal Department is speaking to the Attorney General's Office.
5. EPA's pilot cleaning project being conducted at 110 Liberty Street expects to be completed by the first week in August. No sample results are available, however, the project manager seems happy with the progress so far. The results will be more telling.
6. We are still drafting the bid sheets for the scopes. Air monitoring is completed and cleaning still undergoing modifications. Once finalized, they will be reviewed by Contracts.
7. EPA is meeting with the Red Cross today to finalize the agreement regarding relocation of tenants.

DERTA's activities at WTC attack:

As first responders, DERTA immediately arrived at the WTC incident prior to the collapse of the towers. Following the recovery of personnel who were buried in underground areas following the collapse, DERTA immediately began sampling bulk debris and conducted air sampling to identify hazardous constituents and zones of contamination. Air sampling results obtained on 9/11 by DERTA were used to define the exclusion zone (areas of contamination). On 9/12, air sampling for asbestos continued and additional air monitoring for volatile organic compounds, acid gases and toxic metals was implemented at the impact area, surrounding perimeters, and in the five boroughs.

DERTA coordinated and supervised clean-up activities; identified areas of clearance; provided technical and regulatory expertise to OEM and other environmental agencies; performed confined space entries with FDNY and PA police into unknown ambient atmospheric conditions in sublevel areas below the collapsed towers to identify chemical and toxic atmospheric conditions; examined unknown drums and containers uncovered in rubble; and coordinated investigations with private and public property owners to provide technical and regulatory advisement on proper cleanup processes.

NYC DEP Completes Downtown Cleanup

On March 31, 2003, the New York City Department of Environmental Protection (DEP) completed work removing potentially hazardous dust and debris that accumulated on the roofs, windows and facades of downtown buildings following the World Trade Center collapse. DEP crews cleaned the surfaces of 221 buildings, or more than 3.6 million square feet of exterior building space, during the 10-month long project.

The DEP began inspecting buildings in Lower Manhattan in January 2002 for exterior residue containing more than 1 percent of asbestos, the threshold set by the EPA, the U.S. Department of Labor, New York State and the DEP. Among a small sample of buildings close to the WTC site, 48 percent tested positive for asbestos contamination. This finding prompted the DEP to begin a comprehensive inspection of the more than one thousand buildings in the area.

"There was great concern among people in Lower Manhattan," said Robert Avaltroni, Deputy Commissioner of the DEP. "We needed to act quickly to relieve that anxiety so people who live and work in the area could move forward with their lives."

The DEP inspected 1,073 buildings in Lower Manhattan, of which 323 – approximately 30 percent – were found to have some form of asbestos-contaminated WTC debris and were earmarked for cleaning to help alleviate public concern regarding potential exposure to asbestos and other contaminants.

→ The DEP notified the owners of the affected buildings, giving them the option to have the cleanup done by the DEP or through an independent contractor of their own choosing. The owners of 102 buildings elected to have their buildings cleaned independently. (The DEP has since re-inspected those buildings and certified that asbestos-containing material had been removed.)

From June 2002 through March 2003, DEP cleanup crews cleaned the surfaces of 221 buildings, totaling approximately 3.7 million square feet of exterior building space. DEP crews reached building surfaces with cherry pickers, scaffolds and platforms. They used low-pressure spray-guns as well as their own hands to clean the debris, often working around the clock, weather permitting. Throughout the process of inspection, cleanup and re-inspection, the DEP worked closely with the Federal Emergency Management Agency (FEMA) and the EPA.

Liz Berger, a long-time resident and employee in the area, said she appreciates the effort. "The City and the DEP were genuinely interested in understanding the issue and solving the problem," she said. "Thanks to their dedication, I feel much better in my apartment and in the building where I work."

"We're proud to have done our part to make Lower Manhattan a better place to live," said Avaltroni.

For more information on the DEP's exterior cleanup program and other environmental initiatives, please visit the DEP's web site.

###

DEPARTMENT OF ENVIRONMENTAL PROTECTION ASBESTOS CONTROL PROGRAM

WTC Activities

1. Staff performed site visits to determine the activities conducted by building owners and provide building owners or managers with the advisory "Building Maintenance Issues Involved in Reopening Buildings" and to request copies of any air tests performed after clean-up.
2. Staff responded to telephone inquiries from building owners, tenants and consultants from 8:00 a.m. to 8:00 p.m., seven days a week for two months.
3. Air sampling activities
 - a. At ground zero – ongoing from Sep. 11
 - b. Outer boroughs (five locations) – from Sep. 14 to Oct. 1, 2001
 - c. In front of 4 schools in WTC vicinity - ongoing from October 4, 2001
4. Staff also conducted inspections where a complaint or a telephone notification was received or where building owners requested assistance.

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DEPARTMENT OF ENVIRONMENTAL PROTECTION ASBESTOS CONTROL PROGRAM

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 - a. At ground zero – ongoing from Sep. 11
 - b. Outer boroughs (five locations) – from Sep. 14 to Oct. 1, 2001
 - c. In front of 4 schools in WTC vicinity - ongoing from October 4, 2001
4. Staff also conducted inspections where a complaint or a telephone notification was received or where building owners requested assistance.
5. Press release announcements to the public to contact DEP Help Center with any concerns during re-occupancy. Staff responded to sites and performed inspections.

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Activities

- Initial Response and Assessment
- Coordination with OEM, EPA and DOS for Clean-up activities of Streets, Sidewalks & Common Areas
- Coordination with OEM for Street openings after assessment of air monitoring results
- Participated in daily meetings with EPA, NYS DOH, NYSDEC and other City agencies with respect to the clean-up activities and results of air samplings in and around ground zero.
- Developed and distributed advisories
 - Direct distribution at building sites
 - Community Assistance Desk at 110 Maiden Lane
 - Real Estate Board
- Telephone assistance to building owners, tenants, contractors, and consultants 12 hours/ day for 2 months.
- Press release to contact DEP 24-hour HELP Center with re-occupancy concerns. Staff responded to sites, performed inspections, and recommended actions.
- Site inspections & Building Surveys.
- Air sampling activities
 - Ongoing at Ground Zero from September 11, 2001
 - Five locations outside of WTC Vicinity from 9/11 to 10/1/2001. (Outer Boroughs)
 - In front of four schools in the WTC Vicinity
- Review of sampling data submitted by building owners & ongoing
- Review of scopes of work for clean-up of ACM and processing of emergency notifications. Inspections and follow-up inspections were performed at all these sites.
- Developed emergency certification procedures and offered daily certification examinations to ensure a properly trained and qualified work force was available to perform necessary clean-up activities.

TO: Michael Gilsenan
Assistant Commissioner, BEC

FROM: Moustafa Fawzy
Director, DERTA

DATE: October 24, 2001

RE: Summary of DERTA actions at World Trade Center Attack

On September 11, 2001, the Division of Emergency Response and Technical Assessment (DERTA) was notified by the DEP Communication Center of a plane crashing into the World Trade Center. First Deputy Commissioner Chapin placed the notification to DEP Communications and requested DERTA to immediately respond to the location. DERTA's First Responders comprising it's Hazardous Materials Specialists and support team were immediately dispatched to the location.

Upon arrival both Towers had been attacked and were burning. At the moment of collapse of the South Tower, DERTA personnel attempted to escape the impact area. During this period members of the Division were trapped and missing. However, within 2 hours of the collapses, these employees found their way from the underground areas from where they were trapped and resurfaced alerting the Team that they were alive.

At this time, the first response capabilities of the HazMat Specialists and Support members were fully activated. The DERTA team utilized all resources available. The Hazardous Materials Mobile Laboratory was dispatched to the location. DERTA members were mobilizing and preparing to conduct an immediate and detailed technical assessment of the areas impacted by the debris produced from the collapse of the Towers. The Division conducted this assessment by preparing a representative sampling scheme of the areas affected and for those potentially affected by the impact. The Team then performed visual inspections and conducted bulk sampling and air monitoring of public areas. It was established at the onset of the incident that the debris contained high percentage of asbestos. As per regulations, the debris was designated as ACM and recommendations for appropriate actions were made. In addition to performing assessments in public outdoor areas, the Division also conducted visual inspections and performed air monitoring in the interior of publicly owned buildings, including City Hall and it's surrounding grounds. From September 11 through October 6th all particulate sampling and subsequent analysis was conducted by the Hazardous Materials Laboratory under the direction of DERTA.

From the onset of this incident, DERTA worked in conjunction with the EPA providing direction to contractors as to the cleanup priorities for the public areas. DERTA also hired and managed DEP contractors to perform cleanup of public areas. Performing oversight of contractors and the cleanup operations was a 24 hour process. Meticulous knowledge of the vicinity, contamination zones, crew and equipment availability and coordination with disposal sites were required. This task continued for several weeks until proper cleanup and subsequent clearance air monitoring results were achieved. Some of the areas required to be cleaned included streets, sidewalks, Battery Park Promenade, building facades, vehicles, parks, and children's playgrounds.

DEP DERTA is continuing the management of private contractors to perform on going air monitoring and analysis. DERTA will collect and assess the data and prepare a written report as it pertains to the environmental impact of the site as it pertains to the emergency response activities and subsequent non-emergency aspects of the incident.

In addition to performing assessments in public areas in lower Manhattan, DERTA implemented the analytical services of Pedneault Laboratories to perform air monitoring in the surrounding five boroughs. Pedneault was instructed by DERTA to perform air monitoring for acid gases, metals, and VOC's.

DEP DERTA also performed entries into ground zero and beneath the World Trade Center. These confined space entries were requested by FDNY and NYPD ESU. DERTA performed monitoring and assessing the conditions of the atmosphere at sub-surface levels. Photoionizable contaminants, Cl₂, ammonia and hydrogen cyanide and Freon were surveyed. In addition, the atmosphere was surveyed for explosive contaminants, carbon monoxide, H₂S and oxygen level. Water samples were taken to analyze for salinity, freon22 and PCB's.

M E M O R A N D U M

TO: Thomas R. Frieden, Commissioner
Department of Health

FROM: Diana Chapin, First Deputy Commissioner
Department of Environmental Protection

DATE: April 3, 2002

SUBJECT: World Trade Center Activities Conducted by DEP

After our recent conversation, I thought it might be helpful to have our staff put together a chronology of some of the WTC activities conducted by DEP.....

- DEP hazmat and air quality staff immediately responded and made preliminary assessments of conditions
- Coordinated cleanup activities of streets, sidewalks, and exterior common areas with OEM, EPA, DOS and NYCDOH
- EPA and DEP contractors conducted street cleanups by using HEPA vacs and DEP directed and monitored cleanup activities.
- Developed and distributed advisories for owners for both exterior and interior maintenance issues involved in reopening buildings (see attached).
- Set up air quality monitors at numerous sites in and around ground zero beginning September 11th.
- Set up air quality monitors at four school locations near the WTC from October 4th.
- Set up air quality monitors in the five boroughs from September 14th-October 1st.
- Set up a special telephone in Asbestos Unit to assist building owners, tenants and contractors with inquiries which was manned 12 hours a day, 7 days a week for 2 months. (Separate and apart from our 24 hour (718) DEP Helpline.)
- Performed site visits to review activities (both exterior and interior) conducted by building owners both on request of owner, citizen complaint and general oversight.
- Performed at least one inspection of all (asbestos project) ACP7 notifications filed by building owners. (To date, 34 building owners have filed ACP7 notifications.)
- Responded to telephone complaints from the public regarding debris/dust in apartments. As of today, DEP has received over 159 indoor complaints and has resolved 152 with 7 ongoing. In 151 cases, no visible debris was

evident. In 1 case, debris was evident enough to take a sample (from a windowsill) and that sample was positive. The landlord was verbally ordered to conduct an asbestos cleanup and complied.

- In January/February of this year DEP, with assistance from EPA and State DOL, surveyed 452 building exteriors in the downtown area (Hudson River to Pearl Street and Chambers Street to Rector Place and Beaver Street). Approximately 211 buildings were identified as having varying amounts of debris on the exterior which was congealed and appeared to be residual debris from the WTC.
- In addition, DEP sent specific information regarding the survey results to those 211 buildings identified as having debris on the exterior and requested that the owners assess the debris and conduct a cleanup based on the assessment.
- In January/February, DEP sent letters to all 452 building owners in that area requesting information regarding assessments and cleanup procedures conducted by owners both indoor and outdoor.
- As a result of our mailing to the 452 buildings, DEP has received 269 responses from building owners, with the following results for asbestos in indoor spaces:

	Total	Positive (asbestos)
Bulk samples	2622	164
Air		
PCM	77,675	863
TEM	41,425	197

Please note, building owners have supplied data on other contaminants but DEP has not yet been able to collate them.

- As a result of our second mailing, owners have mailed information back to DEP that they have performed additional exterior cleanups. To date, DEP has verified 12 buildings in which an additional exterior cleanup was conducted. This is still ongoing.
- In March, DEP sampled 44 of the exterior of buildings identified as having debris and found that 22 tested positive for asbestos.

Attachment

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Activities

- Initial Response and Assessment
- Coordination with OEM, EPA and DOS for Clean-up activities of Streets, Sidewalks & Common Areas
- Coordination with OEM for Street openings after assessment of air monitoring results
- Participated in daily meetings with EPA, NYS DOH, NYSDEC and other City agencies with respect to the clean-up activities and results of air samplings in and around ground zero.
- Developed and distributed advisories
 - Direct distribution at building sites
 - Community Assistance Desk at 110 Maiden Lane
 - Real Estate Board
 - MAYORAL BRIEFINGS (Press)*
- Telephone assistance to building owners, tenants, contractors, and consultants
12 hours/ day for 2 months.
- Press release to contact DEP 24-hour HELP Center with re-occupancy concerns.
Staff responded to sites, performed inspections, and recommended actions.
- Site inspections & Building Surveys.
- Air sampling activities
 - Ongoing at Ground Zero from September 11, 2001
 - Five locations outside of WTC Vicinity from 9/11 to 10/1/2001. (Outer Boroughs)
 - In front of four schools in the WTC Vicinity
- Review of sampling data submitted by building owners & ongoing
- Review of scopes of work for clean-up of ACM and processing of emergency notifications. Inspections and follow-up inspections were performed at all these sites.
- Developed emergency certification procedures and offered daily certification examinations to ensure a properly trained and qualified work force was available to perform necessary clean-up activities.

1. Number surveys and inspections conducted over 500
2. Number building owners who submitted information is about 70 & ongoing
 - Bulk samples collected 1234
 - Positive Bulk Samples 80 (greater than 1%)
 - Air Samples collected
 - Phase Contrast Microscopy(PCM) 11,110
 - Positive PCM sample results 348
 - Transmission Electron Microscopy(TEM) 1683
 - Positive TEM sample results 21
 - 66,000 2 Financial Center*
3. Number of Notifications submitted for ACM clean-up 35
4. Total number of air samples collected by DEP



**Department of
Environmental
Protection**

59-17 Junction Boulevard
Corona, New York
11368-5107

**Joel A. Miele Sr., P.E.
Commissioner**

**Robert C. Avaltroni
Deputy Commissioner**

**Bureau of
Environmental Compliance**
Tel (718) 595-4418
Fax (718) 595-4422

To: Commissioner Miele

From: Robert C. Avaltroni

*NY
for RCA*

Date: September 15, 2001

Subject: Asbestos Control Program Activities

The ALCP activities for September 15, 2001:

1. Staff available from 8:00 a.m. to 8:00 p.m. to respond to inquires from building owners and the public.
2. A guidance document for clean-up activities was developed on September 14, 2001. Distribution was begun today.
3. An emergency project notification was received September 14, 2001 for clean-up activities at 140 West Street (Verizon). Response was scheduled today. The NYCFD evacuated the building. The condition of the structure is under evaluation.
4. The owner's representative for 106 Duane Street and 217 Broadway contacted the ALCP for on-site assistance. Response to the site was attempted but ALCP was unable to approach the area due to gas leak. Only Con Edison staff was permitted in the vicinity.
5. Written and telephone requests were received for emergency asbestos handler certification. Procedures are being developed to provide daily examinations.
6. Air sampling activities were coordinated for the five roof top locations outside the WTC vicinity. The Bronx site was confirmed at 9:15 p.m. on September 14, 2001. Sampling at this site began today and results will be available by 9:00 a.m. tomorrow. Analytical results for September 14, 2001 are attached.



www.nyc.gov/dep

(718) DEP-HELP

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		< 0.001 f/cc	0.002 f/cc	0.005 f/cc
2	09/14/01	0.003 f/cc		0.002 f/cc	0.002 f/cc	0.004 f/cc
		REGULATORY LIMIT 0.01 f/cc				

9/25
sent to R/O/c Chapin
C Sturges

ALCP Activities

ALCP field staff has been performing inspections of all buildings where telephone notifications were received or where building owners requested assistance. Staff performed site visits in a grid pattern to determine the activities performed by the building owners, to provide building owners or managers with the advisory "Building Maintenance Issues Involved in Reopening Buildings", and to request any copies of any air tests performed after clean-up.

Number of Buildings Visited	106
Air tests Performed	16*
Inspections	24
Work in Progress (clean-up of debris)	10

*Based on information provided to staff.

Daily asbestos worker examinations are being scheduled. Individuals must submit completed applications. At the completion of the examination, individuals who satisfy the certification requirements are being issued temporary certification for clean-up activities in the vicinity of the WTC only. The permanent certificates will be issued within three to four weeks.

Staff has been responding to telephone inquiries from building owners and tenants seven days per week. The number of concerned tenants who are re-occupying their homes and are calling for information regarding air quality has increased. Requests for data are also increasing.

09/23/01

Buildings Visited on Down Town

1 West Side Street Beth Triola Building Mgr Air Test done, Flyer given to the manager

17 Battery Place Air Test done Flyer given to John Occannelo maintaince personnel

28 Washington & 19 West Street Joe Garcia Security Guard, Flyer given no work was done

Battery Parking garage-Edison parking. Par environmental Sign at the entrance
45k/14,810ln/ft dumpster in front with signs

21 West ST. - Air Monitoring was done cleaning is on going in the interior 3,9,22,Roof, Gus Flores building super

11 Greenwich st. Locked flyer was inserted

25 Greenwich St. Locked, flyer was inserted Building is used by the post office.

17 Trinity Place, Flyer was inserted , no one was working on the building,it's a deli.

44 Trinity Place, Locked flyer inserted.

46 Trinity Place, Locked flyer inserted .

50 Trinity Place, Locked, flyer Slipped in.

11 Rector Street, Locked flyer inserted.

98&100 Greenwich Street, Locked flyer inserted.

23 Thames, Nasdaq

86 Trinity Place Nasdaq Mr Thomas Long building Engineer air test done flyer given.

113-123 Greenwich Street, Air Test done Mr Thomas Long building Engineer flyer given.Nasdaq.

114 Greenwich Street, Building locked flyer inserted.

75 Greenwich Street, Locked, flyer inserted.

81 Trinity Place, Flyer given.

- 67 Greenwich Street, Building locked flyer inserted.
- 88 Greenwich Street, Air monitoring, Michael Riegler-Owner, flyer given.
- 76 Washinton Street, Locked,flyer inserted.
- 78 Washington Street, Flyer goiven
- 80 Washington Street, Flyer given.
- 90 Washington Street,Bank of ny. Building closed,flyer inserted.
- 33 Rector Street, Goldman pls. (212-925-2415) locked, flyer inserted.
- 40 Rector Street, Friday, air testing done,filters changed, Jack Meyer-fire Safety director.
- 38 Rector Street, Building locked, flyer slipped.
- 16 Rector Street, locked flyer slipped.
- 14 Rector Street, locked flyer slipped in.
- 2 Rector Street, flyer given.
- 94 1/2 Greenwich Street, flyer given.
- 96 Greenwich Street, locked, flyer inserted.
- 98 Greenwich Street, locked, flyer inserted.
- 100 Greenwich Street, locked flyer inserted.

Inspectors:Ramasubbu Rammohan and Sam Nebedum

**The following Buildings on Broadway were inspected
by Mr. Plumptre and Okello**

September 22, 2001

182	183
180	181
176	179
170	177
160	175
150	173
140*	115 Inspected- Mr. Jan Wolkowicz of Crmco Environmental on site.
120*	111 Inspected-Clean up completed. Mr. Kevin Hoey-Building Manager.
100	71
80	65 Inspected- Clean up in Progress. Mr. Oleg Koledenkor
52	61
42*	55*
32	47
26	45
2*	39
	29
	25*
	5
	1

Note.

- 1. The * buildings were cleaned up by in-house workers and air monitoring was requested from the building representatives.**
- 2. DEP Flyers were given and left in the entire listed buildings.**
- 3. Air Monitoring results were requested from building 115 and 65 for the ongoing cleanup including completed 111 Broadway.**

- 4. Flyers were left underneath the doors of all locked entrances of contaminated stores from 180 Broadway to 140 Broadway except a Burger King store at 182 Broadway which the flyer was given to the store manager.**
- 5. Most of the buildings were without building Engineers and Flyers were left with the security.**
- 6. Most of the offices from 140 Broadway to One Broadway have been reoccupied for businesses and were running with outside generators.**
- 7. Almost all the building on the entire street were still with dusts on the outside windows.**

09/22/01

Buildings Visited on Broadway

- 196 Building was locked and information flyer was inserted through the shutter**
- 198 Met maintenance worker Al Myrie and gave the information flyer**
- 200 Modells Sporting -- Locked and flyer was inserted**
- 202 Portabella Garments- Information flyer given to a worker**
- 204 Locked- Information flyer inserted**
- 150 Fulton Street- Mrs Field --restaurent --workers washing counters, information flyer given to the manager.**
- 195 Front façade washing was ongoing. Information flyer was given to the Director of facility, who doesn't know the details of any ACM clean-up and said will inform the individual who handles Asbestos projects for the building.**
- 197 Church- Information flyer was given to father, who claimed that someone was working on arranging the contractor. Air monitoring was advised.**
- 222 Pinnacle Environmental already completed a major clean-up in various floors and air monitoring results were requested. Spoke to the Engineer Jim Tinesky. The clean-up was started on 9/13/01.**
- 217 As per Property Manager Scott Laylor, bulk sampling was collected on 10th and 8th floor roofs and 2% ACM detected on the 10th floor. AA Services was performing the clean-up on the 10th floor roof. Air results requested.**
- 225 Tony Velez, Assistant Super- Information flyer was given**
- 233 Woolworth Building- Vincent Baffa, Building Manager- Air samples collected several occasions after the WTC attack and no positive readings found. Recently samples collected last night and results were un known. Sampled locations --lobby, 9th, 14th floors. Information flyer was given to Mr. Baffa and air sampling was requested.**
- 250 John Migea, Building Engineer- Air sampling was conducted couple of days ago and clearance levels were met. Building Owners ,Amtrust (917) 939-2504. Information flyer was given and air results requested.**

- 253 Information flyer was given to the security guard and no one was in the building.**
- 258 Jhonny, the engineer, the information flyer was given.**
- 261 Building was locked. As per the notice posted on the entrance door, air samplings conducted through the building. Tudor Realty (212) 557-3600**
- 270 As per the security guard, AES performed a clean-up and don't know the exact dates. Information flyer was given to the guard and was advised to handover to the building manager.**

Inspectors: Ramasubbu Rammohan and Dinesh Shah

World Trade Center Emergency Response Inspections conducted on September 23, 2001 – Carlstien Lutchmedial

310 Greenwich St – Met with Superintendent Vincent Hernandez (212) 962-3530. He said that the building did not get any of the debris from the WTC incident. We were unable to get into any of the apartments with windows. Inspection of the roof revealed that it was free of any suspect material. I was able to look into the terraces of the south side of the building from the roof and did not see any suspect debris. Also the surrounding yard of the building did not have any suspect material.

100 Church Street – At the building I met Frederick B. Maier and John Leonard of LVI Environmental Services Inc and Joseph Cianci of Ambient Group. Cianci said that he was currently sampling each floor and taking ten bulk samples per floor. They said they were there to provide the owner with a bid for the clean up. LVI said there plan was to put the entire building under negative air and do the cleanup. I also spoke to Marc Stein {(212) 971 0111 xt 177} the building owner. He said that he was presently accepting bids from various contractors. He estimates that the clean-up project should not take more than three weeks.

217 Broadway – I met Scott Lawler the Property Manager. He said that at this time the contractor AA Services did not get approval to bring their truck into the area so the cleanup did not start. AA is first scheduled to do the roof then the interior of the building.

222 Broadway – Building locked.

90 West Street/140 Cedar Street/21 Albany Street- Met with James Hall of Trade Winds Environmental Restoration Inc. he informed me that they were hired to pump out the water from the basement of the building. This building did not have power at this time. The water was being pumped into the sewer.

40 Rector Street – I met Joe Kelleher the Property Manager. At this time PAL was on site cleaning the roof and changing HVAC filters. He said that they were awaiting the insurance adjusters to evaluate the damage and hopefully Monday September 23, 2001 the clean up can begin.

33 Maiden Lane – the Chief Engineer Walter Sheering was on site. He took me to the 5th floor where I met Kenneth W. Houseman of Quest – 3rd party air monitor. Houseman informed me that they were currently working on the second floor. We proceeded to the second floor where I observed workers HEPA and wet wiping surfaces. The windows on the floor 2, 3, & 5 are sealed windows. Houseman explained that the cleaning they were doing were to err on the safe side because of the positive sample obtained. This sample most likely came from debris that was tracked into the building. I did not see any suspect debris of any of the surfaces.

D TO

104 Washington Street – this building house the 1st Precinct support unit. I met with Linus Armstrong the Director of Public safety. He said that their building is sealed and the only place that was contaminated was the lobby. He used his cleaning staff to clean up affected surfaces. I informed him that he should also conduct some air monitoring. He agreed to do so.

115 Broadway – I met handler supervisor Michal Batt # 80213 of Comco Asbestos removal Inc. and Oleg Berezhniy # AH 0017881 the 3rd party air monitor of CTSI. Comco presently had 60 workers on site. They had finished cleaning the 1, 2, 3, 4, 13, 16, 17, floors. They were preparing to clean the 14th and 15th floors. Inspection revealed that there was heavy contamination on floors where the windows were open. On other floors there was little or no debris. CTSI was informed to fax the clearance results to DEP. The contractor is using two shifts for the clean up.

1 Liberty Plaza – Met with Marek Jendrosa handler supervisor # 82788 of ETS. He said that he had 80 workers on site. Also on site was PAL and CTS. The 3rd party air monitor on site was Hillman Environmental. In total there were about 150 asbestos workers. Work was being done throughout the building. A lot of windows facing the WTC had been blown out and even though the floors were gross cleaned it still appeared contaminated. Hillman said they were doing a gross clean up first then were going to do a complete final clearance in the end. Even though some of the floors were cleaned the windows, which were broken, were not sealed. As a result dust were still coming into the building from the work ongoing at WTC.

180 Broadway - I met the security guard who informed me that the owner hired a company called NITRO to perform the clean up. Nitro is not an asbestos Contractor. This building has houses a Ranch ! fast food outlet and heavy contamination could be seen on the inside. The security officer also informed me that there were some office spaces with heavy contamination in them. He did not have keys to the spaces. He was given the DEP 24 hour number and asbestos clean-up recommendations for cleaning.

World Trade Center Emergency Response Inspections conducted on September 24, 2001 – Carlstien Lutchmedial

100 Church Street – At the building I met two workers who identified themselves as employees sub contracted by Global Crossing (telephone Company) to run a generator to keep their switching gear in operation. They said that the room they occupied on the first floor was cleaned by their company. Also that the owner made them sign a waiver of all liabilities before they could occupy the space. I was unable to locate any building rep on site.

99 Church Street – on site was Robert Ryan and Tadeusz Lukasik handler supervisor # 80809 of Pinnacle Environmental Corp. they said that they were doing a complete interior cleaning of all 11 floors. They had already completed the exterior of the building. A worker decon was set up on the first floor. Inspection revealed that most of the floors were completed. ATC was on site conducting air monitoring. Ryan was informed to send the final clearance to DEP.

90 Church Street – met Postal Police officer Bellamy in front of the building. He said that there was no one in the building. I went into the lobby and noticed that power had not been restored to this building. Bellamy said that from time to time a crew comes in and removes mails from the building.

222 Broadway – Clean-up already completed at this building.

170 Broadway - Clean-up already completed at this building.

88 Greenwich/19 Rector St. – Clean-up of exterior being done by Pinnacle Environmental. Work is expected to be completed today.

Battery Park -South Tower next to American Express Building clean in progress.

40 Rector Street – Met with Joe Attanasio of Milro Restoration (516) 379-6100. He said they were hired by the owner to clean the entire building. His company was not an asbestos company. No air monitoring was being done. At this time they had just started work on the 8th floor.



**Department of
Environmental
Protection**

59-17 Junction Boulevard
Corona, New York
11368-5107

**Joel A. Miele Sr., P.E.
Commissioner**

**Robert C. Avaltroni
Deputy Commissioner**

**Bureau of
Environmental Compliance**
Tel (718) 595-4418
Fax (718) 595-4422

To: Commissioner Miele

From: Robert C. Avaltroni

*MJ
for RCA*

Date: September 15, 2001

Subject: Asbestos Control Program Activities

The ALCP activities for September 15, 2001:

1. Staff available from 8:00 a.m. to 8:00 p.m. to respond to inquiries from building owners and the public.
2. A guidance document for clean-up activities was developed on September 14, 2001. Distribution was begun today.
3. An emergency project notification was received September 14, 2001 for clean-up activities at 140 West Street (Verizon). Response was scheduled today. The NYCFD evacuated the building. The condition of the structure is under evaluation.
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6. Air sampling activities were coordinated for the five roof top locations outside the WTC vicinity. The Bronx site was confirmed at 9:15 p.m. on September 14, 2001. Sampling at this site began today and results will be available by 9:00 a.m. tomorrow. Analytical results for September 14, 2001 are attached.



(718) DEP-HELP

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		< 0.001 f/cc	0.002 f/cc	0.005 f/cc
2	09/14/01	0.003 f/cc		0.002 f/cc	0.002 f/cc	0.004 f/cc
		REGULATORY LIMIT 0.01 f/cc				

Maldonado, Jane

From: Maldonado, Jane
Sent: Tuesday, May 14, 2002 4:40 PM
To: 'sgreenberger@cityhall.nyc.gov'
Cc: Ward, Chris; Gilsenan, Michael (ex)
Subject: DEP WTC chronological history

Sharon,

As per our conversation, please find the attached.

PS - If you have any questions or require any additional information, please give me a call at (718) 595-4418.



wtc chronology.doc

Department of Environmental Protection's WTC Chronological History

- Initial response to Ground Zero by the Division of Emergency Response and Technical Assessment (Hazmat).
- DEP Hazmat took over first response activities in conjunction with the Fire Department who lost a significant number of Hazmat employees responding to the incident.
- DEP Hazmat performed entries into ground zero and beneath the World Trade Center. These confined space entries involved performing monitoring and assessment of atmospheric conditions at subsurface levels.
- On September 12, DEP began operating a network of outdoor (or "ambient") fixed air monitors that have been used to date for monitoring asbestos levels. Air sampling activities included the outer boroughs through 10/12/01, and included in front of four schools in the vicinity of the WTC site.
- DEP worked daily with EPA, NYSDOH, NYSDEC and its sister agencies with respect to the clean-up activities and results of air sampling in and around ground zero.
- DEP established a 12-hour hotline on 9/12/01 to provide assistance to building owners, tenants, contractors, and consultants, through 11/12/01.
- DEP conducted site inspections and distributed clean-up protocols to building owners through October 2001.
- To date, DEP has conducted exterior inspections of almost 1,000 buildings, river to river, North to Reade Street.
- As a result of complaints received by the agency, DEP has responded to 174 locations. In only one instance, did we order an asbestos abatement clean-up.
- To date, we have received over 120,000 indoor air samples from building owners in the affected area. Only 197 samples have been above the TEM level of 70s/mm².
- In early April after numerous public hearings, including the February 11th hearing conducted by Senators Clinton and Lieberman, Commissioner Ward commenced negotiations with EPA to begin to formulate a comprehensive plan that would restore public confidence in Lower Manhattan.
- On Wednesday, May 14, 2002, EPA took the lead at a press conference to announce a comprehensive program developed with DEP and FEMA.

- The key components of the comprehensive plan to be instituted on 6/3/02 are as follows:

Short term

- EPA is lead Agency
- Establishment of an EPA hotline
- Direct assistance to residents and residential building owners (clean-up and testing of apartments, as requested)
- Cleaning of unoccupied, uncleaned buildings. Six (6) as of this writing
- Clean-up of exterior buildings with residual WTC debris
- Professional review of HVAC systems as requested
- Distribution upon request, of HEPA Vacs through FEMA

Long term

- Pilot building cleaning effort to confirm cleaning
 - Create a database on private sector environmental testing results and clean-up activity
 - Background study of levels of potential contaminants
- DEP developed Scopes of Work for the hotline and clean-up activities, in conjunction with EPA, and is in the process of procuring the contracts to be managed by EPA.
 - DEP will be setting up meetings with local elected officials and groups prior to the commencement of the program. These meetings will be led by EPA.
 - A major symposium is being set up by DEP to be held at Pace University prior to the commencement of the program. This symposium will be led by EPA.