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Current HazMat Operations

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

Air Sampling in and around zone

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

Mike G. -

We need to get more info. with respect to Haz Mats testing. Pls. ask Mustafa and explain to him how I need this info. for my testimony to the council.

Also, anything else he thinks might be helpful to me at the hearing.

Thanks,
 Bob A
 9/27

*Mike G.
This is a good reference
point for me at the
hearing.
It's a Bader
Building that
we handled
effectively
when requested.
Boggs
3/24*

This is in response to our recent conversation regarding the concerns of asbestos from the collapse of the World Trade Center within the building and building systems at 105 Duane Street.

The Department of Environmental Protection (DEP) responded to residents concerns at the building with multiple inspections, review of data, and recommendations. Air sampling at over 200 locations within the building at residential units and in common areas were reviewed. A licensed environmental contractor, ATC Associates Inc., performed the sampling on behalf of Related Management Company, L.P.

The Department received information with concerns regarding elevated asbestos levels in samples collected by Mr. Ed Olmstead on behalf of building occupants. The samples were collected using a standard test method developed by the American Society for Testing Materials in 1995. Laboratories participating in the Environmental Laboratory Approval Program (ELAP) are not accredited to perform this analysis. Based on conversations with the New York State Department of Health, the procedures have not been adopted due to the lack of precision with the sampling and analysis procedure.

This ASTM method specifically stated the collection efficiency was unknown and varied among different surfaces and required the collection of multiple independent samples from the same area. The method did not describe procedures or techniques required to evaluate the safety or habitability of buildings and did not set a standard or guidance for interpretation of the results. Rather it recommended the consideration of this data in relation to other available data. A single direct relationship between asbestos-containing dust and potential human exposure has not been established.

The Department performed joint inspections with the New York City Department of Health, environmental consultants, and an HVAC cleaning company, etc. The DEP inspected the building during cleaning activities including the duct cleaning activities. Further, ATC Associates, on behalf of the building owner and under the direction of DEP, performed additional air sampling within the common hallway of the tenth floor and the second floor air handling room which services the common areas.

Subsequently, the Department performed a joint inspection with Mr. Howard Bader, an environmental consultant retained by the residents and ~~was~~ accepted his direction for inspection locations. Debris from the collapse of the WTC was not observed. In addition to the DEP actions, the New York City Department of Health issued a fact sheet to residents identifying sampling performed at the site, a summary of the results, and the determination made based on the results. The building owner had indicated residents had the option to request additional sampling.

The report prepared by ATC Associates, Inc. dated February 11, 2002 concluded that building management actions and loss of power successfully shut down the HVAC systems and minimized dust intrusion. ATC Associates inspected 406 units and did not find the presence of debris and/or dust accumulation from the WTC.

Thirty-five units were inaccessible or the occupants refused access and were not inspected. Further, the report indicated the house supplied HVAC system was free of dust accumulations attributable to the collapse of WTC.

According to our records, the USEPA has received requests for cleaning and monitoring activities at the building under the indoor residential cleaning and monitoring program. Under this program residential units are inspected, air sampled, and/or cleaned at the request of the residents and/or building owners. This program includes the examination and evaluation of the HVAC and exhaust systems. The findings of this evaluation will determine further necessary actions. Therefore the activities at the building are ongoing.

September 15 AM Report from HazMat Mobile Lab:

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

Northbound: Warren Street

Eastbound: Broadway

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

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

- Results of Air Testing:

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

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

SEPTEMBER 15, 2001: 2PM UPDATE

- **PLAN FOR DERELICT VEHICLE REMOVAL (GROUND ZERO):** FDC Chapin and Mike Gilsenan have discussed the methodology for the removal of the vehicles from ground zero. The plan is as follows:

1. EPA will supply a HEPA vac for as long as is needed
2. MTA will supply power washer
3. Vehicles will be funneled through a central point where vacuuming and washing will take place.
4. Vehicles will be towed to a location underneath the Manhattan Bridge.

Agencies involved need to coordinate through OEM.



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

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

- **Derelict Vehicle Update:**

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

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

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

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

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

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

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

DEPARTMENT OF HEALTH ISSUES

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

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

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

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

Mike G.

Pls. refresh
my memory.
Was this
DOH hotline
established?
I kind of
think it
was but
am not
entirely
sure.
BoFA
3/24

Sunday September 16: 6 AM Report from HazMat Mobile Lab

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

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

- **Results of Air Testing:**

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

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

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

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

- **Derelict Vehicle Update:**

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

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

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

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

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

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

Monday September 17: 6 AM Report from HazMat Mobile Lab

- **Results of Air Testing:**

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

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

will fire

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

September 17, 2001: Bureau of Environmental Compliance

1 P.m.

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

Thursday September 20: AM Report from HazMat Mobile Lab

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

South Side Battery Park City

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

North Side Battery Park City

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