



# MOBILE MONITORING REPORT

Date: 9/2/2008

Location: Battery Park City  
Projects (BPC 024)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations   | TSP (mg/m <sup>3</sup> ) | Noise (dB)  | Time  |
|----------------------|---|--------------------------|-------------|-------|
| 1                    | Murray & N End Ave  | 0.041                    | 81.6        | 11:17 |
| 2                    | N End Ave b/w Murray & Vesey (1/3 block south from Murray)                      | 0.024                    | 78.9        | 11:16 |
| 3                    | N End Ave b/w Murray & Vesey (2/3 block south from Murray)                      | 0.021                    | 77.5        | 11:15 |
| 4                    | N End Ave & Vesey   | 0.027                    | 80.7        | 11:14 |
| 5                    | Vesey b/w N End Ave & West St (1/3 block to SW Corner of Goldman Sachs site)    | 0.035                    | <b>88.1</b> | 11:12 |
| 6                    | Vesey b/w N End Ave & West St (2/3 block to SW Corner of Goldman Sachs site)    | 0.037                    | 83.5        | 11:11 |
| 7                    | Vesey b/w N End Ave & West St (at SW Corner of Goldman Sachs site)              | 0.041                    | 82.3        | 11:11 |
| 8                    | E side of hotel b/w Vesey & Murray (1/3 block north from Vesey)                 | 0.029                    | 78.9        | 11:19 |
| 9                    | E side of hotel b/w Vesey & Murray (2/3 block north from Vesey)                 | 0.033                    | 77.8        | 11:19 |
| 10                   | Murray b/w West St & N End Ave (NW corner of Goldman Sachs site)                | 0.036                    | 84.7        | 11:12 |
| 11                   | Murray b/w West St & N End Ave (1/3 block from NW corner of Goldman Sachs site) | 0.050                    | <b>85.3</b> | 11:13 |
| 12                   | Murray b/w West St & N End Ave (2/3 block from NW corner of Goldman Sachs site) | 0.440                    | 84.4        | 11:15 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

**Weather** Clear, mid-80's

## Discussion

Elevated noise levels, including some readings above 85.0 dBA were observed on Murray St., North End Ave, and South End Ave. The primary source of the noise was pile driving operation underway at Site 2990, BPC Site 24. Pile driving occurred approximately 40% of the time.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/2/2008

Location: 115/125 Cedar St

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                          | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|------------------------------------|--------------------------|------------|-------|
| 1                    | Trinity & Cedar                    | 0.064                    | 76.4       | 15:30 |
| 2                    | Trinity & Thames                   | 0.070                    | 75.8       | 15:29 |
| 3                    | Thames b/t Trinity & Greenwich     | 0.119                    | 76.9       | 15:28 |
| 4                    | Thames & Greenwich                 | 0.217                    | 76.6       | 15:27 |
| 5                    | Greenwich & Cedar                  | 0.145                    | 78.5       | 15:25 |
| 6                    | Cedar b/t Greenwich & Trinity      | 0.067                    | 80.2       | 15:24 |
| 7                    | Liberty & Greenwich (new gate)     | 0.081                    | 77.4       | 15:22 |
| 8                    | Liberty mid b/t Greenwich & Church | 0.056                    | 76.4       | 15:23 |
| 9                    | Gate 3 (Liberty & Church)          | 0.032                    | 76.0       | 15:32 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

**Weather** Clear, mid-80's

## Discussion

Elevated TSO levels were associated with various construction sites including 0700, 0800, and 1120.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/2/2008

Location: 9A - Phase 2 (0020)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                     | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|-------------------------------|--------------------------|------------|-------|
| 1                    | Albany & West (NW corner)     | 0.215                    | 78.4       | 15:00 |
| 7                    | West & Vesey (SW corner)      | 0.042                    | 80.7       | 15:04 |
| 8                    | West & Vesey (NW Corner)      | 0.051                    | 81.3       | 15:06 |
| 9                    | West b/t Vesey & Murray       | 0.039                    | 77.6       | 15:01 |
| 10                   | West & Murray (SW corner)     | 0.046                    | 79.1       | 14:59 |
| 11                   | West & Murray (NW corner)     | 0.032                    | 78.6       | 14:58 |
| 12                   | Mid. West b/t Murray & Warren | 0.039                    | 77.3       | 14:55 |
| 13                   | West & Warren (SW corner)     | 0.033                    | 76.0       | 14:40 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

Weather Clear, mid-80's

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Gerry Nicholls  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/2/2008

Location: Fulton Street Transit  
Center (0590, 0610)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                                  | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|--|--------------------------|------------|-------|
| 1                    | Church & Cortland                          | 0.026                    | 80.2       | 10:11 |
| 2                    | Church b/t Cortland & Dey                  | 0.022                    | 75.3       | 10:12 |
| 3                    | Church & Dey                               | 0.115                    | 76.9       | 10:12 |
| 4                    | Midpoint on Church b/t Dey & Fulton        | 0.128                    | 78.5       | 10:13 |
| 5                    | Church & Fulton                            | 0.085                    | 76.2       | 10:20 |
| 6                    | Midpoint on Fulton b/t Church & Broadway   | 0.054                    | 79.0       | 10:21 |
| 7                    | Midpoint on Fulton b/t Nassau & Broadway   | 0.051                    | 76.1       | 10:26 |
| 8                    | SE Corner of Fulton & Broadway             | 0.063                    | 79.0       | 10:25 |
| 9                    | Broadway b/t Fulton and John (¼ to Fulton) | 0.048                    | 77.0       | 10:29 |
| 10                   | Midpoint Broadway b/t Fulton and John      | 0.052                    | 77.6       | 10:30 |
| 11                   | Broadway b/t Fulton & John (¼ to John)     | 0.047                    | 78.5       | 10:32 |
| 12                   | Broadway & John                            | 0.057                    | 79.2       | 10:32 |
| 13                   | Mid Broadway b/w Cortlandt & Dey (Demo)    | 0.090                    | 76.0       | 10:34 |
| 14                   | Southwest corner of Broadway & Dey         | 0.078                    | 78.3       | 10:22 |
| 15                   | Dey, ¼ to Broadway                         | 0.104                    | 79.1       | 10:21 |
| 16                   | Dey, ½ to Church                           | 0.117                    | 78.6       | 10:20 |
| 17                   | Dey, ¼ to Church                           | 0.160                    | 76.4       | 10:20 |
| 18                   | SW corner of Broadway & Cortlandt          | 0.086                    | 77.9       | 10:17 |
| 19                   | Midpoint Broadway b/t Cortlandt & Liberty  | 0.052                    | 80.5       | 10:16 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Clear, Mid-80's

## Discussion

Visible dust emissions observed at Dey St. from site 0590 where personnel were mixing concrete mix in a wheel barrel

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/2/2008

Location: 130 Liberty Street  
Deconstruction  
(0800)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                         | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|-----------------------------------|--------------------------|------------|-------|
| 5                    | Greenwich & Albany                | 0.210                    | 79.4       | 14:11 |
| 6                    | Albany b/t Washington & Greenwich | 0.163                    | 78.2       | 14:14 |
| 7                    | Albany & Washington               | 0.086                    | 76.9       | 14:15 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

Weather Clear, Mid-80's

## Discussion

Visible emissions observed. Sources included dust and debris on Washington St, Site 1120, and WTC.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/2/2008

Location: 123 Washington St.  
(1120)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                        | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|----------------------------------|--------------------------|------------|-------|
| 1                    | NE Corner of Site                | 0.076                    | 79.4       | 14:08 |
| 2                    | Middle of Site along Albany      | 0.086                    | 77.9       | 14:10 |
| 3                    | Washington & Albany              | 0.113                    | 78.6       | 14:05 |
| 4                    | Washington b/t Albany & Carlisle | 0.171                    | 77.5       | 14:03 |
| 5                    | Carlisle & Washington            | 0.144                    | 77.4       | 14:00 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

**Weather** clear, Mid-80's

## Discussion

Visible dust emissions observed. Sources included Site 1120 and general dirt and dust accumulated on Washington St

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/4/2008

Location: WTC Projects  
(0700, 0730, 0750, 0760, 0780, 1280, 1320)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction sites as detailed in the tables below.

Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                        | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|----------------------------------|--------------------------|------------|-------|
| 1                    | West & Vesey                     | 0.065                    | 82.1       | 10:55 |
| 2                    | Vesey & Washington               | 0.055                    | 80.4       | 10:55 |
| 3                    | PATH Entrance                    | 0.061                    | 79.8       | 10:54 |
| 4                    | Vesey b/w W. Broadway and Church | 0.056                    | 80.5       | 10:55 |
| 5                    | Church & Vesey                   | 0.078                    | 82.8       | 10:50 |
| 6                    | Church & Fulton                  | 0.092                    | 80.9       | 10:49 |
| 7                    | Church & Dey                     | 0.079                    | 82.9       | 10:48 |
| 8                    | Church & Cortlandt               | 0.076                    | 80.7       | 10:47 |
| 9                    | Trinity & Liberty                | 0.118                    | 82.5       | 10:40 |
| 10                   | Liberty & greenwich              | 0.212                    | 81.1       | 10:42 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Clear and high 80's

## Discussion

Out of compliance TSP reading >0.150 mg/m<sup>3</sup> were observed at Liberty and Greenwich (Gate 3C). LMCCC instructed contractor's representative to use water to wet site entrance and adjacent roadways.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/4/2008

Location: 130 Liberty Street  
Deconstruction  
(0800)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                           | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|-------------------------------------|--------------------------|------------|-------|
| 1                    | Liberty & Washington (outside gate) | 0.181                    | 80.1       | 10:41 |
| 3                    | Greenwich & Liberty                 | 0.212                    | 81.1       | 10:42 |
| 4                    | Greenwich & Cedar                   | 0.080                    | 71.7       | 11:17 |
| 5                    | Greenwich & Albany                  | 0.090                    | 75.9       | 11:19 |
| 6                    | Albany b/t Washington & Greenwich   | 0.088                    | 73.7       | 11:20 |
| 7                    | Albany & Washington                 | 0.095                    | 74.5       | 11:21 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Clear and high 80's

## Discussion

Out of compliance TSP reading >0.150 mg/m<sup>3</sup>) were observed at Liberty and Greenwich (Gate 3C). LMCCC instructed contractor's representative to use water to wet site entrance and adjacent roadways.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/4/2008

Location: Beekman Tower (0840)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                              | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|--|--------------------------|------------|-------|
| 1                    | Beekman, east of Nassau                | 0.068                    | 72..2      | 14:35 |
| 2                    | Beekman, b/t Nassau & William          | 0.078                    | 74.7       | 14:36 |
| 3                    | Beekman & William                      | 0.097                    | 74.2       | 14:37 |
| 4                    | William, in front of hospital entrance | 0.067                    | 72.3       | 14:38 |
| 5                    | Spruce & William                       | 0.109                    | 75.0       | 14:39 |
| 6                    | Spruce b/t William & Nassau            | 0.105                    | 76.7       | 14:39 |
| 7                    | Spruce, east of Nassau                 | 0.097                    | 74.3       | 14:40 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Clear and high 80's

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/4/2008

Location: 99 Washington Street  
(5260)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below.

Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                         | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|-----------------------------------|--------------------------|------------|-------|
| 1                    | Rector b/t Greenwich & Washington | 0.085                    | 73.5       | 11:28 |
| 2                    | Rector & Washington               | 0.083                    | 72.4       | 11:29 |
| 3                    | Washington b/t Rector & Carlisle  | 0.880                    | 72.0       | 11:29 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Clear and high 80's

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/4/2008

Location: Private Project  
67 Liberty Street  
(5460)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below.

Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                                  | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|--|--------------------------|------------|-------|
| 1                    | Broadway & Liberty St.                     | 0.081                    | 71.6       | 11:45 |
| 2                    | Liberty St. between Broadway & Liberty Rd. | 0.092                    | 71.5       | 11:46 |
| 3                    | Liberty St. & Liberty Rd.                  | 0.094                    | 72.3       | 11:46 |
| 4                    | Liberty St. & Pine St.                     | 0.084                    | 74.9       | 11:49 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Clear and high 80's

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held





# MOBILE MONITORING REPORT

Date: 9/11/2008

Location: Beekman Tower (0840)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                              | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|--|--------------------------|------------|-------|
| 1                    | Beekman, east of Nassau                | 0.045                    | 74.7       | 14:46 |
| 2                    | Beekman, b/t Nassau & William          | 0.061                    | 72.9       | 14:46 |
| 3                    | Beekman & William                      | 0.067                    | 77.3       | 14:45 |
| 4                    | William, in front of hospital entrance | 0.052                    | 75.3       | 14:48 |
| 5                    | Spruce & William                       | 0.037                    | 74.1       | 14:48 |
| 6                    | Spruce b/t William & Nassau            | 0.042                    | 76.0       | 14:49 |
| 7                    | Spruce, east of Nassau                 | 0.053                    | 73.8       | 14:49 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

**Weather** Low 70's and overcast.

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/11/2008

Location: Private Project  
67 Liberty Street  
(5460)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below.

Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                                  | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|--|--------------------------|------------|-------|
| 1                    | Broadway & Liberty St.                     | 0.037                    | 82.4       | 14:32 |
| 2                    | Liberty St. between Broadway & Liberty Rd. | 0.052                    | 83.2       | 14:33 |
| 3                    | Liberty St. & Liberty Pl.                  | 0.065                    | 81.7       | 14:34 |
| 4                    | Liberty St. & Nassau St.                   | 0.136                    | 80.2       | 14:37 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

**Weather** Low 70's and overcast

## Discussion

Elevated TSP observed at Liberty St and Nassau St downwind of jackhammer operation. Site foreman said they would use water spray to control dust.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/15/2008

Location: 34 Leonard St (2970)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below.

Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                           | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|-------------------------------------|--------------------------|------------|-------|
| 1                    | W. Broadway b/w Leonard & Worth     | 0.024                    | 68.4       | 13:47 |
| 2                    | W. Broadway and Leonard (SW Corner) | 0.049                    | 75.9       | 13:48 |
| 3                    | Leonard b/w W. Broadway & Hudson)   | 0.047                    | 77.9       | 13:49 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Gerry Nicholls  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/15/2008

Location: NYU Law School  
Library (1730)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                            | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|--------------------------------------|--------------------------|------------|-------|
| 1                    | W. Broadway b/t Worth & Leonard      | 0.030                    | 82.7       | 13:53 |
| 2                    | W. Broadway & Leonard                | 0.037                    | 79.2       | 13:54 |
| 3                    | Leonard (midway along site)          | 0.027                    | 88.8       | 13:55 |
| 4                    | Leonard mid b/t W. Broadway & Church | 0.028                    | 80.7       | 13:56 |
| 5                    | Worth (site entrance)                | 0.018                    | 68.3       | 13:51 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Gerry Nicholls  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/15/2008

Location: 56 Leonard St (5230)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below.

Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                            | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|--------------------------------------|--------------------------|------------|-------|
| 1                    | Leonard mid b/t W. Broadway & Church | 0.063                    | 80.1       | 13:57 |
| 2                    | Leonard & Church                     | 0.040                    | 75.2       | 13:58 |
| 3                    | Church b/t Leonard & Worth           | 0.020                    | 73.3       | 13:59 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Gerry Nicholls  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/15/2008

Location: 371 Broadway (5470)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below.

Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations         | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|-------------------|--------------------------|------------|-------|
| 1                    | West Edge of Site | 0.024                    | 69.2       | 15:05 |
| 2                    | East Edge of Site | 0.024                    | 71.2       | 14:07 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Gerry Nicholls  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/15/2008

Location: 50 Franklin St (3170)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below.

Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                          | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|------------------------------------|--------------------------|------------|-------|
| 1                    | Franklin St (western edge of site) | 0.021                    | 85.3       | 14:09 |
| 2                    | Franklin St (eastern edge of site) | 0.035                    | 69.7       | 14:10 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

## Discussion

The elevated noise level was from the operation of a concrete pump. Pnce the pump was shut down, the noise dissipated.

David Frucher  
Lower Manhattan Construction Command Center

Gerry Nicholls  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/16/2008

Location: 9A - Phase 2 (0020)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                     | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|-------------------------------|--------------------------|------------|-------|
| 1                    | Albany & West (NW corner)     | 0.044                    | 80.5       | 14:36 |
| 2                    | Mid West b/t Albany & Liberty | 0.051                    | 81.4       | 14:34 |
| 3                    | West & Liberty (SW Corner)    | 0.067                    | 81.1       | 14:33 |
| 4                    | 1/3 West b/t Liberty & Vesey  | 0.058                    | 79.6       | 14:28 |
| 5                    | Mid West b/t Liberty & Vesey  | 0.069                    | 80.7       | 14:27 |
| 6                    | 2/3 West b/t Liberty & Vesey  | 0.048                    | 82.3       | 14:27 |
| 7                    | West & Vesey (SW corner)      | 0.088                    | 81.6       | 14:24 |
| 8                    | West & Vesey (NW Corner)      | 0.118                    | 82.7       | 14:23 |
| 9                    | West b/t Vesey & Barclay      | 0.135                    | 78.2       | 14:29 |
| 10                   | West & Murray (SW corner)     | 0.042                    | 76.1       | 14:22 |
| 11                   | West & Murray (NW corner)     | 0.057                    | 78.6       | 14:21 |
| 12                   | Mid. West b/t Murray & Warren | 0.018                    | 84.0       | 14:20 |
| 13                   | West & Warren (SW corner)     | 0.037                    | 73.4       | 14:16 |
| 14                   | West & Chambers               | 0.044                    | 75.7       | 14:15 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

70 degrees with cloudy skies

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/16/2008

Location: 20 Pine Street (1030)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                                   | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|---|--------------------------|------------|-------|
| 1                    | Nassau b/t Pine & Cedar                     | 0.045                    | 78.5       | 11:54 |
| 2                    | Nassau & Cedar                              | 0.039                    | 79.3       | 11:53 |
| 3                    | Chase Manhattan Courtyard                   | 0.030                    | 74.6       | 11:51 |
| 4                    | Pine b/t William & Nassau (corner of site)  | 0.070                    | 76.1       | 11:56 |
| 5                    | Pine b/t William & Nassau (middle of block) | 0.041                    | 75.3       | 11:57 |
| 6                    | Pine b/t William & Nassau (middle of site)  | 0.059                    | 78.4       | 11:57 |
| 7                    | Pine & Nassau                               | 0.046                    | 80.8       | 11:58 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

70 degrees and cloudy skies.

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/16/2008

Location: 57 Reade St (1770)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                      | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|--------------------------------|--------------------------|------------|-------|
| 1                    | Broadway, south corner of site | 0.028                    | 77.2       | 12:32 |
| 2                    | Broadway, north corner of site | 0.034                    | 72.6       | 12:33 |
| 3                    | Reade (site entrance)          | 0.014                    | 68.5       | 12:34 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

70 degrees with cloudy skies

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/16/2008

Location: 201 Pearl Street (1810)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below.

Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations               | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|-------------------------|--------------------------|------------|-------|
| 1                    | Maiden b/t Gold & Pearl | 0.039                    | 67.8       | 12:10 |
| 2                    | Maiden & Pearl          | 0.048                    | 69.4       | 12:11 |
| 3                    | Pearl & Fletcher        | 0.025                    | 78.6       | 12:12 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

70 degrees and cloudy skies

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/16/2008

Location: 85 W. Broadway (1880)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below.

Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                          | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|------------------------------------|--------------------------|------------|-------|
| 1                    | W. Broadway b/t Warren & Chambers  | 0.027                    | 72.8       | 13:09 |
| 2                    | W. Broadway & Chambers (SE corner) | 0.036                    | 72.7       | 13:08 |
| 3                    | Chambers (E. edge of site)         | 0.014                    | 70.4       | 13:10 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

70 degrees and cloudy skies.

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site, however a substantial amount of white dust, suspected to be cement, was observed on the street in the site laydown area.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/16/2008

Location: 157 Chambers (2150)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below.

Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                       | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|---------------------------------|--------------------------|------------|-------|
| 1                    | Chambers (western edge of site) | 0.150                    | 71.3       | 13:20 |
| 2                    | Chambers (center of site)       | 0.350                    | 67.6       | 13:25 |
| 3                    | Chambers (eastern edge of site) | 0.125                    | 68.4       | 13:31 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

70 degrees and cloudy skies.

## Discussion

TSP levels >0.150 mg/m<sup>3</sup> were observed near entranceways to site. Visible dust was observed inside building (inside site) and measurements indicated TSP levels >1.280 mg/m<sup>3</sup>. A lot of concrete demolition debris was observed inside site.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/16/2008

Location: NYCT Chambers (3500)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below.

Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                   | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|-----------------------------|--------------------------|------------|-------|
| 1                    | Hudson & Chambers           | 0.046                    | 77.1       | 13:04 |
| 2                    | Hudson b/t Reade & Chambers | 0.045                    | 79.1       | 13:05 |
| 3                    | Hudson & Reade              | 0.032                    | 78.5       | 13:06 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

70 degrees and cloudy skies.

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/18/2008

Location: Fulton Street Transit  
Center (0590, 0610)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                                  | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|--|--------------------------|------------|-------|
| 1                    | Church & Cortland                          | 0.029                    | 80.6       | 9:55  |
| 2                    | Church b/t Cortland & Dey                  | 0.034                    | 82.3       | 9:56  |
| 3                    | Church & Dey                               | 0.041                    | 82.1       | 10:20 |
| 4                    | Midpoint on Church b/t Dey & Fulton        | 0.039                    | 78.4       | 10:19 |
| 5                    | Church & Fulton                            | 0.045                    | 82.2       | 10:18 |
| 6                    | Midpoint on Fulton b/t Church & Broadway   | 0.061                    | 80.0       | 10:22 |
| 7                    | Midpoint on Fulton b/t Nassau & Broadway   | 0.044                    | 68.7       | 10:33 |
| 8                    | SE Corner of Fulton & Broadway             | 0.086                    | 67.3       | 10:23 |
| 9                    | Broadway b/t Fulton and John (¼ to Fulton) | 0.067                    | 78.3       | 10:24 |
| 10                   | Midpoint Broadway b/t Fulton and John      | 0.056                    | 72.4       | 10:24 |
| 11                   | Broadway b/t Fulton & John (¼ to John)     | 0.042                    | 82.2       | 10:25 |
| 12                   | Broadway & John                            | 0.039                    | 83.1       | 10:23 |
| 13                   | Mid Broadway b/w Cortlandt & Dey (Demo)    | 0.047                    | 80.3       | 10:34 |
| 14                   | Southwest corner of Broadway & Dey         | 0.084                    | 82.6       | 10:35 |
| 15                   | Dey, ¼ to Broadway                         | 0.186                    | 76.5       | 10:27 |
| 16                   | Dey, ½ to Church                           | 0.167                    | 77.6       | 10:30 |
| 17                   | Dey, ¼ to Church                           | 0.135                    | 78.3       | 10:28 |
| 18                   | SW corner of Broadway & Cortlandt          | 0.048                    | 81.0       | 10:26 |
| 19                   | Midpoint Broadway b/t Cortlandt & Liberty  | 0.052                    | 79.3       | 10:27 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

70's and clear skies.

## Discussion

Elevated TSP readings were observed. See Dust Control report for additional information. No anomalous or out-of-compliance noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/18/2008  
 Location: WTC Projects  
(0700, 0730, 0750, 0760, 0780,  
1280, 1320)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction sites as detailed in the tables below.

Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                        | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|----------------------------------|--------------------------|------------|-------|
| 1                    | West & Vesey                     | 0.034                    | 81.7       | 10:15 |
| 2                    | Vesey & Washington               | 0.029                    | 76.1       | 10:12 |
| 3                    | PATH Entrance                    | 0.050                    | 82.1       | 10:11 |
| 4                    | Vesey b/w W. Broadway and Church | 0.039                    | 76.2       | 10:10 |
| 5                    | Church & Vesey                   | 0.042                    | 76.2       | 10:09 |
| 6                    | Church & Fulton                  | 0.045                    | 81.3       | 10:08 |
| 7                    | Church & Dey                     | 0.050                    | 75.5       | 10:07 |
| 8                    | Church & Cortlandt               | 0.033                    | 76.0       | 10:05 |
| 9                    | Trinity & Liberty                | 0.040                    | 71.5       | 10:00 |
| 10                   | Liberty & Greenwich              | 0.037                    | 74.8       | 10:02 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

70's and clear skies

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
 Lower Manhattan Construction Command Center

Kevin Held  
 BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/18/2008

Location: Beekman Tower (0840)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                              | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|--|--------------------------|------------|-------|
| 1                    | Beekman, east of Nassau                | 0.021                    | 78.2       | 10:41 |
| 2                    | Beekman, b/t Nassau & William          | 0.250                    | 91.5       | 11:00 |
| 3                    | Beekman & William                      | 0.103                    | 86.1       | 10:50 |
| 4                    | William, in front of hospital entrance | 0.056                    | 76.4       | 10:46 |
| 5                    | Spruce & William                       | 0.052                    | 81.6       | 10:45 |
| 6                    | Spruce b/t William & Nassau            | 0.039                    | 76.2       | 10:42 |
| 7                    | Spruce, east of Nassau                 | 0.024                    | 79.5       | 10:44 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

70's and clear skies.

## Discussion

Elevated TSP and noise readings were observed on Beekman St. from jackhammer operations. See Dust Control report for more information.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/18/2008

Location: NYU Law School  
Library (1730)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                            | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|--------------------------------------|--------------------------|------------|-------|
| 1                    | W. Broadway b/t Worth & Leonard      | 0.033                    | 73.4       | 13:05 |
| 2                    | W. Broadway & Leonard                | 0.058                    | 76.1       | 12:55 |
| 3                    | Leonard (midway along site)          | 0.069                    | 74.7       | 12:53 |
| 4                    | Leonard mid b/t W. Broadway & Church | 0.047                    | 76.3       | 12:49 |
| 5                    | Worth (site entrance)                | 0.042                    | 68.5       | 13:10 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

70's and clear skies.

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/18/2008

Location: 85 W. Broadway (1880)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below.

Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                          | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|------------------------------------|--------------------------|------------|-------|
| 1                    | W. Broadway b/t Warren & Chambers  | 0.033                    | 68.8       | 13:20 |
| 2                    | W. Broadway & Chambers (SE corner) | 0.040                    | 71.2       | 13:21 |
| 3                    | Chambers (E. edge of site)         | 0.043                    | 70.7       | 13:22 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

70's and clear skies.

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site. Foreman wa consulted about cement dust on street and started to hose area. See Dust Control report for details.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/18/2008

Location: NYCT Chambers (3500)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below.

Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                   | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|-----------------------------|--------------------------|------------|-------|
| 1                    | Hudson & Chambers           | 0.035                    | 64.8       | 13:15 |
| 2                    | Hudson b/t Reade & Chambers | 0.041                    | 68.5       | 13:16 |
| 3                    | Hudson & Reade              | 0.048                    | 76.4       | 13:17 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

70's and clear skies.

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/18/2008

Location: 56 Leonard St (5230)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below.

Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                            | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|--------------------------------------|--------------------------|------------|-------|
| 1                    | Leonard mid b/t W. Broadway & Church | 0.233                    | 79.7       | 12:40 |
| 2                    | Leonard & Church                     | 0.120                    | 76.2       | 12:38 |
| 3                    | Church b/t Leonard & Worth           | 0.048                    | 77.5       | 12:45 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

70's and clear skies.

## Discussion

Elevated TSP readings were observed at this site, see Dust Control report for additional information.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/18/2008

Location: Fulton Street  
(5140)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below.

Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                            | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|--------------------------------------|--------------------------|------------|-------|
| 1                    | Fulton b/w Church St. & Broadway     | 0.046                    | 76.4       | 11:38 |
| 2                    | Fulton & Broadway                    | 0.036                    | 78.4       | 11:36 |
| 3                    | Fulton b/w Broadway & Nassau St.     | 0.103                    | 75         | 11:34 |
| 4                    | Fulton & Nassau (10 yards in Fulton) | 0.047                    | 73.4       | 11:27 |
| 5                    | Fulton & Dutch St.                   | 0.038                    | 67.8       | 11:28 |
| 6                    | Fulton b/w William & Gold St.        | 0.068                    | 72.3       | 11:29 |
| 7                    | Fulton & Gold                        | 0.132                    | 70.4       | 11:30 |
| 8                    | John Delury Sr. Plaza                | 0.052                    | 68.5       | 11:31 |
| 9                    | Fulton b/w Ryders Alley & Cliff St.  | 0.042                    | 66.2       | 11:32 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

70's and clear skies.

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site. A visible emission was observed prior to the start of environmental monitoring. See Dust Control report for details.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/23/2008

Location: Embassy Suites

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations   | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|---|--------------------------|------------|-------|
| 1                    | Murray & N End Ave  | 0.022                    | 75.6       | 11:14 |
| 2                    | N End Ave b/w Murray & Vesey (1/3 block south from Murray)                      | 0.026                    | 77.9       | 11:14 |
| 3                    | N End Ave b/w Murray & Vesey (2/3 block south from Murray)                      | 0.036                    | 76.8       | 11:15 |
| 4                    | N End Ave & Vesey   | 0.031                    | 74.1       | 11:15 |
| 5                    | Vesey b/w N End Ave & West St (1/3 block to SW Corner of Goldman Sachs site)    | 0.117                    | 77.4       | 11:16 |
| 6                    | Vesey b/w N End Ave & West St (2/3 block to SW Corner of Goldman Sachs site)    | 0.060                    | 76.0       | 11:17 |
| 7                    | Vesey b/w N End Ave & West St (at SW Corner of Goldman Sachs site)              | 0.078                    | 78.3       | 11:16 |
| 8                    | E side of hotel b/w Vesey & Murray (1/3 block north from Vesey)                 | 0.044                    | 70.5       | 11:13 |
| 9                    | E side of hotel b/w Vesey & Murray (2/3 block north from Vesey)                 | 0.034                    | 78.5       | 11:12 |
| 10                   | Murray b/w West St & N End Ave (NW corner of Goldman Sachs site)                | 0.025                    | 76.2       | 11:10 |
| 11                   | Murray b/w West St & N End Ave (1/3 block from NW corner of Goldman Sachs site) | 0.022                    | 68.4       | 11:09 |
| 12                   | Murray b/w West St & N End Ave (2/3 block from NW corner of Goldman Sachs site) | 0.033                    | 67.6       | 11:09 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

**Weather** 60's and clear skies.

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site. Elevated readings and visible emissions were observed in at Site 0530 nearby.

David Frucher  
Lower Manhattan Construction Command Center

Gerry Nicholls  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/23/2008

Location: 115/125 Cedar St

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                          | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|------------------------------------|--------------------------|------------|-------|
| 1                    | Trinity & Cedar                    | 0.048                    | 74.7       | 10:21 |
| 2                    | Trinity & Thames                   | 0.031                    | 74.0       | 10:25 |
| 3                    | Thames b/t Trinity & Greenwich     | 0.029                    | 68.5       | 10:24 |
| 4                    | Thames & Greenwich                 | 0.052                    | 67.3       | 10:23 |
| 5                    | Greenwich & Cedar                  | 0.078                    | 78.3       | 10:19 |
| 6                    | Cedar b/t Greenwich & Trinity      | 0.052                    | 74.6       | 10:20 |
| 7                    | Liberty & Greenwich (new gate)     | 0.037                    | 77.7       | 10:16 |
| 8                    | Liberty mid b/t Greenwich & Church | 0.045                    | 78.4       | 10:16 |
| 9                    | Gate 3 (Liberty & Church)          | 0.038                    | 75.1       | 10:17 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

**Weather** 60's and clear skies.

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/23/2008

Location: 9A - Phase 2 (0020)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                     | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|-------------------------------|--------------------------|------------|-------|
| 1                    | Albany & West (NW corner)     | 0.041                    | 75.8       | 10:43 |
| 2                    | Mid West b/t Albany & Liberty | 0.019                    | 74.8       | 10:44 |
| 3                    | West & Liberty (SW Corner)    | 0.042                    | 76.9       | 10:45 |
| 4                    | 1/3 West b/t Liberty & Vesey  | 0.021                    | 74.2       | 10:45 |
| 5                    | Mid West b/t Liberty & Vesey  | 0.029                    | 79.0       | 10:48 |
| 6                    | 2/3 West b/t Liberty & Vesey  | 0.040                    | 77.5       | 10:48 |
| 7                    | West & Vesey (SW corner)      | 0.046                    | 81.3       | 10:49 |
| 8                    | West & Vesey (NW Corner)      | 0.042                    | 82.6       | 10:52 |
| 9                    | West b/t Vesey & Murray       | 0.026                    | 81.9       | 10:52 |
| 10                   | West & Murray (SW corner)     | 0.040                    | 78.1       | 10:52 |
| 11                   | West & Murray (NW corner)     | 0.032                    | 77.3       | 10:53 |
| 12                   | Mid. West b/t Murray & Warren | 0.009                    | 70.2       | 11:00 |
| 13                   | West & Warren (SW corner)     | 0.022                    | 73.8       | 11:01 |
| 14                   | West & Chambers               | 0.025                    | 78.3       | 11:02 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

**Weather** 60's and clear skies with wind gusts.

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/23/2008

Location: BPC Site 26  
Goldman Sachs (0530)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                                     | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|---|--------------------------|------------|-------|
| 1                    | West & Vesey                                  | 0.157                    | 78.6       | 11:24 |
| 2                    | Vesey, midway b/t gates                       | 0.117                    | 79.4       | 11:36 |
| 3                    | Wvesey, SW corner of site                     | 0.063                    | 82.1       | 11:26 |
| 4                    | Midway on Westside of site b/t Murray & Vesey | 0.043                    | 80.3       | 11:30 |
| 5                    | Murray, NW corner of site                     | 0.047                    | 76.7       | 11:28 |
| 6                    | Murray at gate mid-way                        | 0.026                    | 64.7       | 11:29 |
| 7                    | West & Murray                                 | 0.032                    | 79.2       | 11:30 |
| 8                    | Barclay & West                                | 0.047                    | 71.0       | 11:31 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

**Weather** 60's, clear skies, and wind gusts.

## Discussion

Elevated TSP readings and visible emissions observed coming from construction entrance on Vesey St. Track-out observed in road. Discussed concerns with Site Superintendent Scott.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/23/2008  
 Location: WTC Projects  
(0700, 0730, 0750, 0760, 0780,  
1280, 1320)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction sites as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                          | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|------------------------------------|--------------------------|------------|-------|
| 1                    | West & Vesey                       | 0.039                    | 80.8       | 11:48 |
| 2                    | Vesey & Washington                 | 0.056                    | 75.7       | 11:49 |
| 3                    | PATH Entrance                      | 0.042                    | 76.4       | 11:48 |
| 4                    | Vesey b/w W. Broadway and Church   | 0.027                    | 77.0       | 11:50 |
| 5                    | Church & Vesey                     | 0.036                    | 81.3       | 11:52 |
| 6                    | Church & Fulton                    | 0.036                    | 82.6       | 11:53 |
| 7                    | Church & Dey                       | 0.029                    | 78.5       | 11:54 |
| 8                    | Church & Cortladt                  | 0.023                    | 80.3       | 11:55 |
| 9                    | Trinity & Liberty                  | 0.031                    | 74.6       | 10:11 |
| 10                   | Liberty & greenwich                | 0.045                    | 76.2       | 10:12 |
| 11                   | Liberty b/w Washington & Greenwich | 0.048                    | 78.6       | 10:12 |
| 12                   | Liberty & washington               | 0.037                    | 76.9       | 10:13 |
| 13                   | Liberty b/w West & Washington      | 0.024                    | 81.3       | 10:13 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

**Weather** 60's with clear skies.

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/23/2008

Location: 130 Cedar (0880)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below. Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations   | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|---|--------------------------|------------|-------|
| 1                    | On Cedar between NW corner of 130 Cedar and construction trailers | 0.071                    | 81.3       | 10:29 |
| 2                    | Northeast corner of 130 Cedar                                     | 0.103                    | 80.8       | 10:31 |
| 3                    | Midpoint on West side sidewalk (Washington)                       | 0.034                    | 75.9       | 10:33 |
| 4                    | Albany & Washington   | 0.045                    | 77.3       | 10:34 |
| 5                    | Albany in front of 130 Cedar                                      | 0.037                    | 79.3       | 10:37 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

**Weather** 60's and clear skies.

## Discussion

Elevated readings on Cedar St. appeared to be from construction activities in multiple locations of building interior.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 9/23/2008

Location: 50 Trinity Place (5270)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the above Lower Manhattan construction site as detailed in the tables below.

Mobile monitoring was conducted to ensure environmental performance commitments are being achieved and to establish TSP and noise monitoring history for every significant construction site in Lower Manhattan.

**Table 1: TSP and Noise Monitoring Results**

| Monitoring ID Number | Locations                         | TSP (mg/m <sup>3</sup> ) | Noise (dB) | Time  |
|----------------------|-----------------------------------|--------------------------|------------|-------|
| 1                    | On Trinity Pl (South End of Site) | 0.024                    | 68.0       | 10:38 |
| 2                    | Trinity & Rector                  | 0.031                    | 71.3       | 10:40 |
| 3                    | Rector b/t Trinity & Greenwich    | 0.016                    | 74.7       | 10:51 |

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter and using a Quest Q-300 Noise Dosimeter designed to measure sound level

**Weather** 60's and clear skies.

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.

