



# MOBILE MONITORING REPORT

Date: 2/4/2008

Location: Gate 1, 1A

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Vesey b/t Greenwich & Washington	0.089	04-Feb-08	15:20
2	Vesey & Washington	0.080	04-Feb-08	15:21
3	East end of Vesey St. overpass	0.084	04-Feb-08	15:22
4	SW corner of Vesey and West	0.088	04-Feb-08	15:26
5	NE corner of Vesey and West	0.084	04-Feb-08	15:27
6	SE corner of Vesey and West (Gate 1)	0.105	04-Feb-08	15:28
7	NW corner of Vesey and West	0.093	04-Feb-08	15:29
8	On overpass above Gate 1	0.110	04-Feb-08	15:32

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Vesey b/t Greenwich & Washington	71.6	04-Feb-08	15:20
2	Vesey & Washington	69.7	04-Feb-08	15:21
3	East end of Vesey St. overpass	67.4	04-Feb-08	15:22
4	SW corner of Vesey and West	73.5	04-Feb-08	15:26
5	NE corner of Vesey and West	75.9	04-Feb-08	15:27
6	SE corner of Vesey and West	76.8	04-Feb-08	15:28
7	NW corner of Vesey and West	72.7	04-Feb-08	15:29
8	On overpass above Gate 1	81.2	04-Feb-08	15:32

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 30s°F cloudy with occasional rains.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/7/2008

Location: Gate 1, 1A

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Vesey b/t Greenwich & Washington	0.041	07-Feb-08	10:21
2	Vesey & Washington	0.037	07-Feb-08	10:22
3	East end of Vesey St. overpass	0.046	07-Feb-08	10:23
4	SW corner of Vesey and West	0.037	07-Feb-08	10:26
5	NE corner of Vesey and West	0.056	07-Feb-08	10:27
6	SE corner of Vesey and West (Gate 1)	0.065	07-Feb-08	10:28
7	NW corner of Vesey and West	0.048	07-Feb-08	10:30
8	On overpass above Gate 1	0.093	07-Feb-08	10:32

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

## Weather

Temperatures were in the mid 40s°F and cloudy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





Date: 2/21/2008

Location: 20 Maiden Lane (3880)

**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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Liberty Place b/t Liberty & Maiden	0.022	21-Feb-08	11:40
2	Liberty Place & Maiden	0.030	21-Feb-08	11:42
3	Maiden b/t Liberty Place & Nassau	0.033	21-Feb-08	11:46
4	Nassau, mid by site entrance	0.060	21-Feb-08	11:52

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Liberty Place b/t Liberty & Maiden	NA	21-Feb-08	11:40
2	Liberty Place & Maiden	NA	21-Feb-08	11:42
3	Maiden b/t Liberty Place & Nassau	NA	21-Feb-08	11:46
4	Nassau, mid by site entrance	NA	21-Feb-08	11:52

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

**Weather**

Temperatures were in the 30s°F with mostly 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: 2/21/2008

Location: Church Street  
(between Liberty St. & Warren St.)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Church St between Liberty St. & Cortlandt St.	0.012	21-Feb-08	15:40
2	Church St. between Cortandt St. & Dey St.	0.009	21-Feb-08	15:42
3	Church St between Dey St. & Fulton St.	0.014	21-Feb-08	15:45
4	Church St. between Fulton St & Vesey St.	0.068	21-Feb-08	15:49
5	Church St. between Vesey St. & Barclay St.	0.106	21-Feb-08	15:55
6	Church St. between Barclay & Park Pl.	0.033	21-Feb-08	16:12
7	Church St. between Park Pl & Murray St.	0.097	21-Feb-08	16:18
8	Church St between Murray St. & Warren St.	0.064	21-Feb-08	16:22

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Church St between Liberty St. & Cortlandt St.	NA	22-Jan-08	16:00
2	Church St. between Cortandt St. & Dey St.	NA	21-Feb-08	16:03
3	Church St between Dey St. & Fulton St.	NA	21-Feb-08	16:08
4	Church St. between Fulton St & Vesey St.	NA	21-Feb-08	16:12
5	Church St. between Vesey St. & Barclay St.	NA	21-Feb-08	16:15
6	Church St. between Barclay & Park	NA	21-Feb-08	16:20
7	Church St. between Park & Murray St.	NA	21-Feb-08	16:22
8	Church St between Murray St. & Warren St.	NA	21-Feb-08	16:25

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the 30s°F with mostly clear skies .

## Discussion

There was much less soil trackout in Church St then there had been during recent investigations in January and February 2008. MTA had several buses idling at 90 and 99 Church St, resulting in elevated TPH levels between Vesey and Barclay on church St. After MTA coordinator instructed drivers to turn off engines after 3-minutes TPH levels dropped to background.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/21/2008

Location: 99 Church Street  
(5420)

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Barclay b/t Broadway & Church	0.014	21-Feb-08	16:40
2	Barclay & Church	0.026	21-Feb-08	16:42
3	Church b/w Barclay & Park	0.038	21-Feb-08	16:44
4	Park & Church	0.030	21-Feb-08	16:46
5	Park b/t Church & Broadway	0.016	21-Feb-08	16:49

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Barclay b/t Broadway & Church	NA	21-Feb-08	16:40
2	Barclay & Church	NA	21-Feb-08	16:42
3	Church b/w Barclay & Park	NA	21-Feb-08	16:44
4	Park & Church	NA	21-Feb-08	16:46
5	Park b/t Church & Broadway	NA	21-Feb-08	16:49

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the 30s°F with clear skies.

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site. Levels were much lower after MTA turned off engines on several buses that were idling on Church St earlier.

David Frucher  
Lower Manhattan Construction Command Center

Kevin Held  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/25/2008

Location: Church Street  
(between Liberty St. & Warren St.)

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Church St between Liberty St. & Cortlandt St.	0.042	25-Feb-08	13:57
2	Church St. between Cortandt St. & Dey St.	0.037	25-Feb-08	13:58
3	Church St between Dey St. & Fulton St.	0.031	25-Feb-08	13:59
4	Church St. between Fulton St & Vesey St.	0.032	25-Feb-08	14:00
5	Church St. between Vesey St. & Barclay St.	0.066	25-Feb-08	14:01
6	Church St. between Barclay & Park Pl.	0.070	25-Feb-08	14:02
7	Church St. between Park Pl & Murray St.	0.102	25-Feb-08	14:03
8	Church St between Murray St. & Warren St.	0.065	25-Feb-08	14:04

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Church St between Liberty St. & Cortlandt St.	68.6	25-Feb-08	13:57
2	Church St. between Cortandt St. & Dey St.	68.3	25-Feb-08	13:58
3	Church St between Dey St. & Fulton St.	73.2	25-Feb-08	13:59
4	Church St. between Fulton St & Vesey St.	68.4	25-Feb-08	14:00
5	Church St. between Vesey St. & Barclay St.	72.3	25-Feb-08	14:01
6	Church St. between Barclay & Park	70.9	25-Feb-08	14:02
7	Church St. between Park & Murray St.	73.2	25-Feb-08	14:03
8	Church St between Murray St. & Warren St.	72.7	25-Feb-08	14:04

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the 40s°F with mostly clear skies .

## Discussion

No anomalous or out-of-compliance TSP or noise readings were observed at this site. Higher values of TSP can be attributed to construction taking place opposite 99, Church St. (Post Office). Dust was visible and coming from that building.

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/25/2008

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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Albany & West (NW corner)	0.029	25-Feb-08	14:26
2	Mid West b/t Albany & Liberty	0.026	25-Feb-08	14:25
3	West & Liberty (SW Corner)	0.022	25-Feb-08	14:24
4	1/3 West b/t Liberty & Vesey	0.054	25-Feb-08	14:23
5	Mid West b/t Liberty & Vesey	0.029	25-Feb-08	14:22
6	2/3 West b/t Liberty & Vesey	0.034	25-Feb-08	14:21
7	West & Vesey (SW corner)	0.078	25-Feb-08	14:20
8	West & Vesey (NW Corner)	0.076	25-Feb-08	14:19
9	West b/t Vesey & Murray	0.042	25-Feb-08	14:18
10	West & Murray (SW corner)	0.049	25-Feb-08	14:17
11	West & Murray (NW corner)	0.046	25-Feb-08	14:16
12	Mid. West b/t Murray & Warren	0.029	25-Feb-08	14:15
13	West & Warren (SW corner)	0.028	25-Feb-08	14:14

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Albany & West (NW corner)	66.9	25-Feb-08	14:26
2	Mid West b/t Albany & Liberty	64.3	25-Feb-08	14:25
3	West & Liberty (SW Corner)	65.4	25-Feb-08	14:24
4	1/3 West b/t Liberty & Vesey	70.0	25-Feb-08	14:23
5	Mid West b/t Liberty & Vesey	66.2	25-Feb-08	14:22
6	2/3 West b/t Liberty & Vesey	69.5	25-Feb-08	14:21
7	West & Vesey (SW corner)	70.6	25-Feb-08	14:20
8	West & Vesey (NW Corner)	76.5	25-Feb-08	14:19
9	West b/t Vesey & Murray	76.5	25-Feb-08	14:18
10	West & Murray (SW corner)	71.9	25-Feb-08	14:17
11	West & Murray (NW corner)	72.4	25-Feb-08	14:16
12	Mid. West b/t Murray & Warren	68.0	25-Feb-08	14:15
13	West & Warren (SW corner)	78.8	25-Feb-08	14:14

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

**Weather**

Temperatures were in the 40s°F with mostly clear skies .

**Discussion**

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



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David Frucher  
Lower Manhattan Construction Command Center



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Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/25/2008

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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	NE Corner of Site	0.039	25-Feb-08	14:37
2	Middle of Site along Albany	0.025	25-Feb-08	14:38
3	Washington & Albany	0.045	25-Feb-08	14:39
4	Washington b/t Albany & Carlisle	0.054	25-Feb-08	14:40
5	Carlisle & Washington	0.046	25-Feb-08	14:41

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	NE Corner of Site	78.0	25-Feb-08	14:37
2	Middle of Site along Albany	79.2	25-Feb-08	14:38
3	Washington & Albany	74.9	25-Feb-08	14:39
4	Washington b/t Albany & Carlisle	75.7	25-Feb-08	14:40
5	Carlisle & Washington	79.6	25-Feb-08	14:41

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the 40s°F with mostly 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

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/25/2008

Location: BPC Site 3 (1560)

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Promenade & 3 <sup>rd</sup> Place	0.033	25-Feb-08	15:00
2	Promenade b/t 3 <sup>rd</sup> and 2 <sup>nd</sup> Place	0.030	25-Feb-08	14:59
3	Promenade & 2 <sup>nd</sup> Place	0.015	25-Feb-08	14:58
4	2 <sup>nd</sup> Place b/t Promenade & Battery	0.018	25-Feb-08	14:57
5	2 <sup>nd</sup> & Battery	0.021	25-Feb-08	14:56
6	Battery b/t 2 <sup>nd</sup> & 3rd	0.017	25-Feb-08	14:55
7	Battery & 3rd	0.019	25-Feb-08	14:54
8	3 <sup>rd</sup> b/t Battery & Promenade	0.017	25-Feb-08	14:53

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Promenade & 3 <sup>rd</sup> Place	68.6	25-Feb-08	15:00
2	Promenade b/t 3 <sup>rd</sup> and 2 <sup>nd</sup> Place	69.3	25-Feb-08	14:59
3	Promenade & 2 <sup>nd</sup> Place	66.6	25-Feb-08	14:58
4	2 <sup>nd</sup> Place b/t Promenade & Battery	65.6	25-Feb-08	14:57
5	2 <sup>nd</sup> & Battery	66.8	25-Feb-08	14:56
6	Battery b/t 2 <sup>nd</sup> & 3rd	61.6	25-Feb-08	14:55
7	Battery & 3rd	67.6	25-Feb-08	14:54
8	3 <sup>rd</sup> b/t Battery & Promenade	68.0	25-Feb-08	14:53

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the 40s°F with mostly 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

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/25/2008

Location: 50 West St. (3260)

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	West St. b/t Joseph P. Ward & Rector St.	0.029	25-Feb-08	14:47
2	West St. (in front of Parking lot)	0.025	25-Feb-08	14:48

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	West St. b/t Joseph P. Ward & Rector St.	75.4	25-Feb-08	14:47
2	West St. (in front of Parking lot)	67.1	25-Feb-08	14:48

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the 40s°F with mostly 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

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/25/2008

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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Rector b/t Greenwich & Washington	0.103	25-Feb-08	14:42
2	Rector & Washington	0.042	25-Feb-08	14:43
3	Washington b/t Rector & Carlisle	0.072	25-Feb-08	14:44

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Rector b/t Greenwich & Washington	64.7	25-Feb-08	14:42
2	Rector & Washington	67.7	25-Feb-08	14:43
3	Washington b/t Rector & Carlisle	75.0	25-Feb-08	14:44

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the 40s°F with mostly 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

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Beekman, east of Nassau	0.023	28-Feb-08	14:37
2	Beekman, b/t Nassau & William	0.034	28-Feb-08	14:38
3	Beekman & William	0.047	28-Feb-08	14:39
4	William, in front of hospital entrance	0.026	28-Feb-08	14:40
5	Spruce & William	0.016	28-Feb-08	14:41
6	Spruce b/t William & Nassau	0.024	28-Feb-08	14:42
7	Spruce, east of Nassau	0.026	28-Feb-08	14:43

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Beekman, east of Nassau	76.6	28-Feb-08	14:37
2	Beekman, b/t Nassau & William	64.9	28-Feb-08	14:38
3	Beekman & William	66.9	28-Feb-08	14:39
4	William, in front of hospital entrance	65.1	28-Feb-08	14:40
5	Spruce & William	70.7	28-Feb-08	14:41
6	Spruce b/t William & Nassau	65.7	28-Feb-08	14:42
7	Spruce, east of Nassau	62.2	28-Feb-08	14:43

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

Location: 20 Exchange Place  
(0910)

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Exchange & William	0.021	28-Feb-08	15:19
2	Exchange b/t William & Hanover St	0.016	28-Feb-08	15:20
3	Exchange & Hanover St.	0.015	28-Feb-08	15:21
4	Hanover & Beaver	0.016	28-Feb-08	15:22
5	Beaver b/t Hanover & William	0.022	28-Feb-08	15:23
6	Beaver & William	0.021	28-Feb-08	15:24

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Exchange & William	65.8	28-Feb-08	15:19
2	Exchange b/t William & Hanover St	67.1	28-Feb-08	15:20
3	Exchange & Hanover St.	64.3	28-Feb-08	15:21
4	Hanover & Beaver	68.1	28-Feb-08	15:22
5	Beaver b/t Hanover & William	64.9	28-Feb-08	15:23
6	Beaver & William	70.4	28-Feb-08	15:24

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Nassau b/t Pine & Cedar	0.028	28-Feb-08	15:55
2	Nassau & Cedar	0.029	28-Feb-08	15:56
3	Chase Manhattan Courtyard	0.022	28-Feb-08	15:57
4	Pine b/t William & Nassau (corner of site)	0.021	28-Feb-08	15:58
5	Pine b/t William & Nassau (middle of block)	0.019	28-Feb-08	15:59
6	Pine b/t William & Nassau (middle of site)	0.020	28-Feb-08	16:00
7	Pine & Nassau	0.031	28-Feb-08	16:01

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Nassau b/t Pine & Cedar	70.9	28-Feb-08	15:55
2	Nassau & Cedar	68.7	28-Feb-08	15:56
3	Chase Manhattan Courtyard	63.0	28-Feb-08	15:57
4	Pine b/t William & Nassau (corner of site)	66.4	28-Feb-08	15:58
5	Pine b/t William & Nassau (middle of block)	67.2	28-Feb-08	15:59
6	Pine b/t William & Nassau (middle of site)	64.5	28-Feb-08	16:00
7	Pine & Nassau	66.8	28-Feb-08	16:01

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

Location: 37 Wall (1090)

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Wall St & William St	0.034	28-Feb-08	15:46
2	Midpoint along Wall St b/t Nassau & William St	0.023	28-Feb-08	15:47
3	Nassau St & Wall St	0.021	28-Feb-08	15:48
4	Midpoint along Nassau St b/t Wall St & Exchange Place	0.020	28-Feb-08	15:49
5	Exchange Place	0.028	28-Feb-08	15:50
6	Midpoint along Exchange Place b/t Nassau St & William St	0.019	28-Feb-08	15:51
7	Close to William St along Exchange Place	0.022	28-Feb-08	15:52
8	William St & Exchange Place	0.030	28-Feb-08	15:53

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Wall St & William St	64.2	28-Feb-08	15:46
2	Midpoint along Wall St b/t Nassau & William St	66.8	28-Feb-08	15:47
3	Nassau St & Wall St	71.0	28-Feb-08	15:48
4	Midpoint along Nassau St b/t Wall St & Exchange Place	65.0	28-Feb-08	15:49
5	Exchange Place	63.5	28-Feb-08	15:50
6	Midpoint along Exchange Place b/t Nassau St & William St	70.9	28-Feb-08	15:51
7	Close to William St along Exchange Place	69.1	28-Feb-08	15:52
8	William St & Exchange Place	65.4	28-Feb-08	15:53

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

Location: 15 William Street  
(1130)

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	William b/t Exchange and Beaver	0.033	28-Feb-08	15:23
2	William b/t Exchange and Beaver	0.030	28-Feb-08	15:24
3	William & Beaver	0.047	28-Feb-08	15:25
4	Beaver b/t Broad & Nassau	0.041	28-Feb-08	15:26

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	William b/t Exchange and Beaver	64.3	28-Feb-08	15:23
2	William b/t Exchange and Beaver	67.4	28-Feb-08	15:24
3	William & Beaver	68.7	28-Feb-08	15:25
4	Beaver b/t Broad & Nassau	68.1	28-Feb-08	15:26

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

Location: 21 Ann Street (1610)

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Alley & Beekman	0.016	28-Feb-08	14:34
2	Alley & Ann	0.016	28-Feb-08	14:35
3	Ann b/t Alley & Nassau	0.023	28-Feb-08	14:36

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Alley & Beekman	76.3	28-Feb-08	14:34
2	Alley & Ann	69.3	28-Feb-08	14:35
3	Ann b/t Alley & Nassau	66.8	28-Feb-08	14:36

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

Location: 40 Broad Street (1620)

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	New St (S. edge of site)	0.027	28-Feb-08	15:37
2	New St (middle of site)	0.034	28-Feb-08	15:38
3	New St (N. edge of site)	0.031	28-Feb-08	15:39
4	Broad St (N. edge of site)	0.027	28-Feb-08	15:40
5	Broad St (middle of site)	0.040	28-Feb-08	15:41
6	Broad St (S. edge of site)	0.045	28-Feb-08	15:42

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	New St (S. edge of site)	68.5	28-Feb-08	15:37
2	New St (middle of site)	66.7	28-Feb-08	15:38
3	New St (N. edge of site)	67.0	28-Feb-08	15:39
4	Broad St (N. edge of site)	66.0	28-Feb-08	15:40
5	Broad St (middle of site)	68.6	28-Feb-08	15:41
6	Broad St (S. edge of site)	71.9	28-Feb-08	15:42

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	W. Broadway b/t Worth & Leonard	0.031	28-Feb-08	12:18
2	W. Broadway & Leonard	0.022	28-Feb-08	12:19
3	Leonard (midway along site)	0.018	28-Feb-08	12:20
4	Leonard mid b/t W. Broadway & Church	0.024	28-Feb-08	12:21
5	Worth (site entrance)	0.029	28-Feb-08	12:22

Data acquired using a personal DataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	W. Broadway b/t Worth & Leonard	68.2	28-Feb-08	12:18
2	W. Broadway & Leonard	70.0	28-Feb-08	12:19
3	Leonard (midway along site)	68.6	28-Feb-08	12:20
4	Leonard mid b/t W. Broadway & Church	69.4	28-Feb-08	12:21
5	Worth (site entrance)	70.9	28-Feb-08	12:22

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

Location: 101 Maiden Lane (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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Maiden b/t Gold & Pearl	0.030	28-Feb-08	14:54
2	Maiden & Pearl	0.028	28-Feb-08	14:55
3	Pearl & Fletcher	0.049	28-Feb-08	14:56

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Maiden b/t Gold & Pearl	68.4	28-Feb-08	14:54
2	Maiden & Pearl	74.3	28-Feb-08	14:55
3	Pearl & Fletcher	69.3	28-Feb-08	14:56

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

Location: 85 W. Broadway  
128 Chambers (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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	W. Broadway b/t Warren & Chambers	0.039	28-Feb-08	12:02
2	W. Broadway & Chambers (SE corner)	0.041	28-Feb-08	12:03
3	Chambers (E. edge of site)	0.033	28-Feb-08	12:04

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	W. Broadway b/t Warren & Chambers	69.0	28-Feb-08	12:02
2	W. Broadway & Chambers (SE corner)	71.8	28-Feb-08	12:03
3	Chambers (E. edge of site)	75.1	28-Feb-08	12:04

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Chambers (western edge of site)	0.017	28-Feb-08	11:58
2	Chambers (eastern edge of site)	0.038	28-Feb-08	11:59

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Chambers (western edge of site)	64.0	28-Feb-08	11:58
2	Chambers (eastern edge of site)	71.6	28-Feb-08	11:59

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

Location: 113 Nassau Street

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Nassau and John	0.016	28-Feb-08	14:30
2	Mid Nassau (North end of site)	0.023	28-Feb-08	14:31

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Nassau and John	62.8	28-Feb-08	14:30
2	Mid Nassau (North end of site)	62.4	28-Feb-08	14:31

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	W. Broadway b/w Leonard & Worth	0.024	28-Feb-08	12:14
2	W. Broadway and Leonard (SW Corner)	0.039	28-Feb-08	12:15
3	Leonard b/w W. Broadway & Hudson	0.022	28-Feb-08	12:16

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	W. Broadway b/w Leonard & Worth	68.3	28-Feb-08	12:14
2	W. Broadway and Leonard (SW Corner)	71.9	28-Feb-08	12:15
3	Leonard b/w W. Broadway & Hudson	67.4	28-Feb-08	12:16

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

Location: 75 Wall Street (3240)

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Pearl & plaza	0.018	28-Feb-08	15:12
2	Pearl b/t the plaza & Wall St.	0.024	28-Feb-08	15:13
3	Pearl & Wall St	0.022	28-Feb-08	15:14
4	Wall St & Water	0.026	28-Feb-08	15:15
5	Water b/t Wall & plaza	0.034	28-Feb-08	15:16
6	Water & plaza	0.023	28-Feb-08	15:17

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Pearl & plaza	66.1	28-Feb-08	15:12
2	Pearl b/t the plaza & Wall St.	65.6	28-Feb-08	15:13
3	Pearl & Wall St	69.7	28-Feb-08	15:14
4	Wall St & Water	74.8	28-Feb-08	15:15
5	Water b/t Wall & plaza	67.5	28-Feb-08	15:16
6	Water & plaza	72.8	28-Feb-08	15:17

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Hudson & Chambers	0.018	28-Feb-08	12:05
2	Hudson b/t Reade & Chambers	0.015	28-Feb-08	12:06
3	Hudson & Reade	0.009	28-Feb-08	12:07

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Hudson & Chambers	71.8	28-Feb-08	12:05
2	Hudson b/t Reade & Chambers	66.7	28-Feb-08	12:06
3	Hudson & Reade	65.0	28-Feb-08	12:07

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

Location: 20 Maiden Lane (3880)

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Liberty Place b/t Liberty & Maiden	0.026	28-Feb-08	14:28
2	Liberty Place & Maiden	0.031	28-Feb-08	14:29
3	Maiden b/t Liberty Place & Nassau	0.028	28-Feb-08	14:30
4	Nassau, mid by site entrance	0.026	28-Feb-08	14:31

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Liberty Place b/t Liberty & Maiden	73.5	28-Feb-08	14:28
2	Liberty Place & Maiden	76.6	28-Feb-08	14:29
3	Maiden b/t Liberty Place & Nassau	75.6	28-Feb-08	14:30
4	Nassau, mid by site entrance	66.9	28-Feb-08	14:31

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

Location: 126 Water Street (5190)

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Water St. (S. edge of site)	0.026	28-Feb-08	15:09
2	Water St. (N. edge of site)	0.019	28-Feb-08	15:10

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Water St. (S. edge of site)	73.5	28-Feb-08	15:09
2	Water St. (N. edge of site)	73.7	28-Feb-08	15:10

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

Location: Fulton St.  
Water Main (5410)

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Fulton & Gold	0.031	28-Feb-08	14:46
2	John Delury Sr. Plaza	0.030	28-Feb-08	14:47
3	Fulton b/w Ryders Alley & Cliff St.	0.032	28-Feb-08	14:48

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Fulton & Gold	71.1	28-Feb-08	14:46
2	John Delury Sr. Plaza	63.9	28-Feb-08	14:47
3	Fulton b/w Ryders Alley & Cliff St.	69.4	28-Feb-08	14:48

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

Location: 161 Maiden Lane (5430)

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Maiden & Front	0.018	28-Feb-08	15:04
2	Maiden b/t Front & South	0.036	28-Feb-08	15:05
3	Maiden & South	0.031	28-Feb-08	15:06
4	Fletcher & South	0.019	28-Feb-08	15:07
5	Fletcher b/t South & Front	0.016	28-Feb-08	15:08
6	Fletcher & Front	0.021	28-Feb-08	15:09

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Maiden & Front	65.7	28-Feb-08	15:04
2	Maiden b/t Front & South	65.7	28-Feb-08	15:05
3	Maiden & South	72.9	28-Feb-08	15:06
4	Fletcher & South	76.4	28-Feb-08	15:07
5	Fletcher b/t South & Front	64.8	28-Feb-08	15:08
6	Fletcher & Front	64.9	28-Feb-08	15:09

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

Location: NYCDOT/DDC Street Projects  
Beaver Street-Broad>William  
(5450)

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Beaver & Broad	0.064	28-Feb-08	15:29
2	Beaver b/t Broad & William	0.093	28-Feb-08	15:30
3	William & Beaver	0.068	28-Feb-08	15:31
4	William b/t Beaver & Exchange	0.048	28-Feb-08	15:32

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Beaver & Broad	65.2	28-Feb-08	15:29
2	Beaver b/t Broad & William	70.5	28-Feb-08	15:30
3	William & Beaver	69.4	28-Feb-08	15:31
4	William b/t Beaver & Exchange	64.9	28-Feb-08	15:32

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

Location: 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	67 Liberty Street	0.018	28-Feb-08	14:27

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	67 Liberty Street	73.8	28-Feb-08	14:27

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/28/2008

Location: 40 Gold Street  
(5480)

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	40 Gold Street	0.029	28-Feb-08	14:50

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	40 Gold Street	68.3	28-Feb-08	14:50

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the mid 20s°F with clear skies and windy.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/29/2008

Location: Marriot Financial  
Center Hotel

## Objective:

At the direction of Tom Kunkel, total suspended particulate (TSP) and noise mobile monitoring was conducted at the Lower Manhattan construction site listed 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Albany & Washington	0.032	29-Feb-08	15:29
2	Albany & West	0.034	29-Feb-08	15:30
3	Carlisle & West	0.034	29-Feb-08	15:31
4	Carlisle & Washington	0.035	29-Feb-08	15:32

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Albany & Washington	75.7	29-Feb-08	15:29
2	Albany & West	78.4	29-Feb-08	15:30
3	Carlisle & West	71.7	29-Feb-08	15:31
4	Carlisle & Washington	70.5	29-Feb-08	15:32

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the low 30s°F with clear skies and mild winds.

## Discussion

No anomalous or out-of-compliance TSP readings. No noise readings were taken due to weather conditions.

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/29/2008

Location: 90 West Street

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	90 West Street	0.022	29-Feb-08	15:34
2	Gate 2 of WTC	0.016	29-Feb-08	15:35

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	90 West Street	67.5	29-Feb-08	15:34
2	Gate 2 of WTC	76.3	29-Feb-08	15:35

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the low 30s°F with clear skies and mild winds.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/29/2008  
 Location: WTC Projects  
(0700, 0730, 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Gate 7	0.041	29-Feb-08	15:38
2	Liberty b/t Washington & Greenwich	0.039	29-Feb-08	15:39
3	Greenwich & Liberty	0.029	29-Feb-08	15:40
4	Liberty (new gate)	0.025	29-Feb-08	15:41
5	Liberty mid b/t Greenwich & Church	0.039	29-Feb-08	15:42
6	Gate 3 (Liberty & Church)	0.040	29-Feb-08	15:43
7	Church b/t Liberty & Cortlandt	0.038	29-Feb-08	15:44
8	Church & Cortlandt	0.040	29-Feb-08	15:45
9	Church & Dey	0.022	29-Feb-08	15:46
10	PATH Entrance	0.016	29-Feb-08	15:47
11	Gate 10	0.038	29-Feb-08	15:48
12	Vesey & Church	0.044	29-Feb-08	15:49
13	Vesey, approx 30 yards from Church	0.043	29-Feb-08	15:50
14	Vesey & Greenwich	0.019	29-Feb-08	15:51
15	Washington & Vesey	0.031	29-Feb-08	15:52
16	Vesey & Westside (SE corner)	0.030	29-Feb-08	15:53
17	Westside ¼ to Liberty	0.033	29-Feb-08	15:54
18	Westside ½ to Liberty	0.039	29-Feb-08	15:55
19	Westside ¾ to Liberty	0.036	29-Feb-08	15:56
20	Westside & Liberty	0.045	29-Feb-08	15:57

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Gate 7	70.4	29-Feb-08	15:38
2	Liberty b/t Washington & Greenwich	70.7	29-Feb-08	15:39
3	Greenwich & Liberty	68.9	29-Feb-08	15:40
4	Liberty (new gate)	68.4	29-Feb-08	15:41
5	Liberty mid b/t Greenwich & Church	74.5	29-Feb-08	15:42
6	Gate 3 (Liberty & Church)	75.8	29-Feb-08	15:43
7	Church b/t Liberty & Cortlandt	79.8	29-Feb-08	15:44
8	Church & Cortlandt	69.3	29-Feb-08	15:45
9	Church & Dey	73.2	29-Feb-08	15:46
10	PATH Entrance	69.1	29-Feb-08	15:47
11	Gate 10	72.9	29-Feb-08	15:48
12	Vesey & Church	75.5	29-Feb-08	15:49
13	Vesey, approx 30 yards from Church	74.8	29-Feb-08	15:50
14	Vesey & Greenwich	69.2	29-Feb-08	15:51
15	Washington & Vesey	71.5	29-Feb-08	15:52
16	Vesey & Westside (SE corner)	70.8	29-Feb-08	15:53
17	Westside ¼ to Liberty	71.4	29-Feb-08	15:54
18	Westside ½ to Liberty	70.8	29-Feb-08	15:55
19	Westside ¾ to Liberty	74.3	29-Feb-08	15:56
20	Westside & Liberty	75.0	29-Feb-08	15:57

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

### Weather

Temperatures were in the low 30s°F with clear skies and mild winds.

### Discussion

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



David Frucher  
Lower Manhattan Construction Command Center



Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/29/2008

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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	Liberty & Washington (outside gate)	0.025	29-Feb-08	15:08
2	Liberty b/t Greenwich & Washington	0.039	29-Feb-08	15:09
3	Greenwich & Liberty	0.029	29-Feb-08	15:10
4	Greenwich & Cedar	0.019	29-Feb-08	15:11
5	Greenwich & Albany	0.031	29-Feb-08	15:12
6	Albany b/t Washington & Greenwich	0.033	29-Feb-08	15:13
7	Albany & Washington	0.040	29-Feb-08	15:14

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	Liberty & Washington (outside gate)	68.4	29-Feb-08	15:08
2	Liberty b/t Greenwich & Washington	70.7	29-Feb-08	15:09
3	Greenwich & Liberty	68.9	29-Feb-08	15:10
4	Greenwich & Cedar	64.9	29-Feb-08	15:11
5	Greenwich & Albany	66.1	29-Feb-08	15:12
6	Albany b/t Washington & Greenwich	71.0	29-Feb-08	15:13
7	Albany & Washington	66.3	29-Feb-08	15:14

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the low 30s°F with clear skies and mild winds.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/29/2008

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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	On Cedar between NW corner of 130 Cedar and construction trailers	0.030	29-Feb-08	15:24
2	Northeast corner of 130 Cedar	0.029	29-Feb-08	15:25
3	Midpoint on West side sidewalk (Washington)	0.031	29-Feb-08	15:26
4	Albany & Washington	0.042	29-Feb-08	15:27
5	Albany in front of 130 Cedar	0.020	29-Feb-08	15:28

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	On Cedar between NW corner of 130 Cedar and construction trailers	65.9	29-Feb-08	15:24
2	Northeast corner of 130 Cedar	63.8	29-Feb-08	15:25
3	Midpoint on West side sidewalk (Washington)	70.2	29-Feb-08	15:26
4	Albany & Washington	68.4	29-Feb-08	15:27
5	Albany in front of 130 Cedar	69.4	29-Feb-08	15:28

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the low 30s°F with clear skies and mild winds.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.





# MOBILE MONITORING REPORT

Date: 2/29/2008

Location: Path Temporary Access  
(5280)

## 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 1.1 TSP Monitoring Results**

Monitoring ID Number	Locations	TSP (mg/m <sup>3</sup> )	Date	Time
1	West Broadway & Vesey (eastside)	0.045	29-Feb-08	16:01
2	West Broadway & Vesey (westside)	0.049	29-Feb-08	16:02
3	Greenwich & Vesey	0.033	29-Feb-08	16:03

Data acquired using a personalDataRAM model pDR-1000AN designed to measure airborne particulate matter

**Table 1.2 Noise Monitoring Results**

Monitoring ID Number	Locations	Noise (dB)	Date	Time
1	West Broadway & Vesey (eastside)	74.1	29-Feb-08	16:01
2	West Broadway & Vesey (westside)	70.9	29-Feb-08	16:02
3	Greenwich & Vesey	67.4	29-Feb-08	16:03

Data acquired using the Quest Q-300 Noise Dosimeter designed to measure sound level

## Weather

Temperatures were in the low 30s°F with clear skies and mild winds.

## Discussion

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

David Frucher  
Lower Manhattan Construction Command Center

Venkat Balasubramanian  
BEM Systems, Inc.

