

**Week of July 26, 2004**

# McCoy Field-Keith Middle School Construction Project New Bedford, MA

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## Daily Field Notes and Dust Monitoring

**Date:** July 26, 2004

**Field Personnel:** Barbara Markley, BETA Group, Inc.

**Time on Site:** 6:30-14:30

**Weather:** AM- mostly sunny, mid 60s      PM- hot, low 80s

**Wind:** AM- light and variable      PM- variable

### Summary of Activities Performed

WES Construction activities included the load out of PCB contaminated waste <50ppm from quadrants Embankment Quadrants 9 and 10. A total of three (3) trucks were loaded with waste (<50 ppm) and each truck was properly lined and decontaminated prior to departure. Embankment Quadrants 9 and 10 were lined with separation fabric, backfilled and contoured. The remaining portion of Embankment Quadrant 10 was stockpiled on and covered with polyethylene sheeting for off-site transportation tomorrow (July 27, 2004).

All trucks hauling <50 ppm PCB contaminated waste were sent to Turnkey.

### Summary of Dust Monitoring Results

Two dust monitoring units on-site. One unit (02352) for manual logging, and one unit (04701) set up for automatic logging (every 15 minutes). Manual dust monitoring readings averaged 0.000 mg/m<sup>3</sup> to 0.090 mg/m<sup>3</sup> during the day.

The logging unit compiled average dust concentrations every fifteen minutes throughout the day (Tag #37). The fifteen-minute averages ranged between approximately 0.007 mg/m<sup>3</sup> - 0.092 mg/m<sup>3</sup>. The overall average concentration for the day was 0.028 mg/m<sup>3</sup>.

pDR-1000 S/N: 00000

User ID: 04701

Tag Number: 37

Number of logged points: 23

Start time and date: 06:49:09 26-Jul

Elapsed time: 05:45:00

Logging period (sec): 900

Calibration Factor (%): 100

Max Display Concentration: 2.930 mg/m<sup>3</sup>

Time at maximum: 12:41:21 Jul 26

Max STEL Concentration: 0.117 mg/m<sup>3</sup>

Time at max STEL: 11:38:10 Jul 26

Overall Avg Conc: 0.028 mg/m<sup>3</sup>

Logged Data:

Point	Date	Time	Avg.(mg/m <sup>3</sup> )
1	26-Jul	07:04:09	0.004
2	26-Jul	07:19:09	0.01
3	26-Jul	07:34:09	0.007
4	26-Jul	07:49:09	0.019
5	26-Jul	08:04:09	0.007
6	26-Jul	08:19:09	0.009
7	26-Jul	08:34:09	0.007
8	26-Jul	08:49:09	0.05
9	26-Jul	09:04:09	0.031
10	26-Jul	09:19:09	0.02
11	26-Jul	09:34:09	0.014
12	26-Jul	09:49:09	0.009
13	26-Jul	10:04:09	0.01
14	26-Jul	10:19:09	0.009
15	26-Jul	10:34:09	0.015
16	26-Jul	10:49:09	0.012
17	26-Jul	11:04:09	0.013
18	26-Jul	11:19:09	0.043
19	26-Jul	11:34:09	0.092
20	26-Jul	11:49:09	0.047
21	26-Jul	12:04:09	0.051
22	26-Jul	12:19:09	0.038
23	26-Jul	12:34:09	0.069

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pDR-1000 S/N: 00000  
User ID: 04701  
Tag Number: 38  
Number of logged points: 6  
Start time and date: 12:52:34 26-Jul  
Elapsed time: 01:30:00  
Logging period (sec): 900  
Calibration Factor (%): 100  
Max Display Concentration: 0.679 mg/m<sup>3</sup>  
Time at maximum: 13:16:06 Jul 26  
Max STEL Concentration: 0.066 mg/m<sup>3</sup>  
Time at max STEL: 13:27:04 Jul 26  
Overall Avg Conc: 0.035 mg/m<sup>3</sup>

Logged Data:

Point	Date	Time	Avg.(mg/m <sup>3</sup> )
1	26-Jul	13:07:34	0.024
2	26-Jul	13:22:34	0.049
3	26-Jul	13:37:34	0.043
4	26-Jul	13:52:34	0.025
5	26-Jul	14:07:34	0.024
6	26-Jul	14:22:34	0.037

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# McCoy Field-Keith Middle School Construction Project New Bedford, MA

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## Daily Field Notes and Dust Monitoring

**Date:** July 27, 2004

**Field Personnel:** Eric Olson, BETA Group, Inc.

**Time on Site:** 6:45-14:00

**Weather:** AM- partly cloudy, 60's°

PM- sunny, 70's°

**Wind:** AM- slight, from W

PM- moderate from NW

### Summary of Activities Performed

WES Construction spent the morning excavating parts of the SE slope. They spent the afternoon stabilizing the southern slope and adding clean fill. They also added fresh gravel to the truck entrance. Work was slowed down considerably because Wes had mechanical problems with the large excavator. Mechanics from Wes were onsite at 10:00 to repair it and completed the work at 13:00.

Total of 2 truck loads of contaminated soil hauled from Site today (all trucks hauling contamination from the SE slope).

### Summary of Dust Monitoring Results

Two dust monitoring units on-site. One unit (02352) for manual logging, and one unit (04701) set up for automatic logging (every 15 minutes). Manual dust monitoring readings averaged between 0.000 mg/m<sup>3</sup> to 0.133 mg/m<sup>3</sup> during the day.

Dust monitoring logging data for today was identified as TAG # 39. The logging unit compiled average dust concentrations every fifteen minutes throughout the day.

pDR-1000 S/N: 00000  
User ID: 04701  
Tag Number: 39  
Number of logged points: 27  
Start time and date: 06:55:48 27-Jul  
Elapsed time: 06:45:00  
Logging period (sec): 900  
Calibration Factor (%): 100  
Max Display Concentration: 1.625 mg/m<sup>3</sup>  
Time at maximum: 09:54:21 Jul 27  
Max STEL Concentration: 0.084 mg/m<sup>3</sup>  
Time at max STEL: 08:45:19 Jul 27  
Overall Avg Conc: 0.016 mg/m<sup>3</sup>

Logged Data:

Point	Date	Time	Avg.(mg/m <sup>3</sup> )
1	27-Jul	07:10:48	0.008
2	27-Jul	07:25:48	0.01
3	27-Jul	07:40:48	0.015
4	27-Jul	07:55:48	0.014
5	27-Jul	08:10:48	0.019
6	27-Jul	08:25:48	0.02
7	27-Jul	08:40:48	0.032
8	27-Jul	08:55:48	0.071
9	27-Jul	09:10:48	0.015
10	27-Jul	09:25:48	0.014
11	27-Jul	09:40:48	0.01
12	27-Jul	09:55:48	0.03
13	27-Jul	10:10:48	0.012
14	27-Jul	10:25:48	0.01
15	27-Jul	10:40:48	0.011
16	27-Jul	10:55:48	0.013
17	27-Jul	11:10:48	0.011
18	27-Jul	11:25:48	0.01
19	27-Jul	11:40:48	0.013
20	27-Jul	11:55:48	0.016
21	27-Jul	12:10:48	0.014
22	27-Jul	12:25:48	0.011
23	27-Jul	12:40:48	0.012
24	27-Jul	12:55:48	0.011
25	27-Jul	13:10:48	0.008
26	27-Jul	13:25:48	0.009
27	27-Jul	13:40:48	0.007

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# McCoy Field-Keith Middle School Construction Project New Bedford, MA

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## Daily Field Notes and Dust Monitoring

**Date:** July 28, 2004

**Field Personnel:** Christian Alarie, BETA Group, Inc.

**Time on Site:** 6:53-14:45

**Weather:** AM- Rainy, Overcast 60 to 70° PM- Rainy, Overcast 60 to 70°

**Wind:** 7 am-Light, from North

### Summary of Activities Performed

WES Construction worked on backfilling (clean sand and gravel), grading, and compacting embankment sections Q8 through Q-11 as appropriate. WES also worked on moving clean fill (sand and gravel) and moved a pile of boulders out of the work zone. No excavation activities took place today and no soil was removed from the Site.

### Summary of Dust Monitoring Results

Two dust monitoring units on-site. One unit for manual logging and one unit set up for automatic logging.

Concentrations from manual logging in the morning ranged from .000-.287 mg/m<sup>3</sup>, with an average concentration of 0.035 mg/m<sup>3</sup>. Concentrations from manual logging in the afternoon ranged from .000-.080 mg/m<sup>3</sup>, with an average concentration of 0.016 mg/m<sup>3</sup>. All dust monitoring locations exhibited low (<0.100 mg/m<sup>3</sup>) to moderate (0.100 to 0.400 mg/m<sup>3</sup>) levels of particulates. Early hazy weather conditions contributed to higher particulate readings at approximately 8 am, which subsided as the day progressed.

Today's automatic dust monitoring logging data is identified as TAG # 40. The logging unit compiled average dust concentrations every fifteen minutes throughout the day. The fifteen-minute averages ranged between approximately 0.000 mg/m<sup>3</sup>-0.038 mg/m<sup>3</sup>. The overall average concentration for the day was 0.000 mg/m<sup>3</sup>.

pDR-1000 S/N: 00000  
User ID: 04701  
Tag Number: 40  
Number of logged points: 30  
Start time and date: 06:58:58 28-Jul  
Elapsed time: 07:30:00  
Logging period (sec): 900  
Calibration Factor (%): 100  
Max Display Concentration: 1.165 mg/m<sup>3</sup>  
Time at maximum: 07:22:13 Jul 28  
Max STEL Concentration: 0.007 mg/m<sup>3</sup>  
Time at max STEL: 07:05:58 Jul 28  
Overall Avg Conc: 0.000 mg/m<sup>3</sup>

Logged Data:

Point	Date	Time	Avg.(mg/m <sup>3</sup> )
1	28-Jul	07:13:58	0.013
2	28-Jul	07:28:58	0.038
3	28-Jul	07:43:58	0.004
4	28-Jul	07:58:58	0
5	28-Jul	08:13:58	0
6	28-Jul	08:28:58	0
7	28-Jul	08:43:58	0
8	28-Jul	08:58:58	0
9	28-Jul	09:13:58	0
10	28-Jul	09:28:58	0
11	28-Jul	09:43:58	0
12	28-Jul	09:58:58	0
13	28-Jul	10:13:58	0
14	28-Jul	10:28:58	0
15	28-Jul	10:43:58	0
16	28-Jul	10:58:58	0
17	28-Jul	11:13:58	0
18	28-Jul	11:28:58	0
19	28-Jul	11:43:58	0
20	28-Jul	11:58:58	0
21	28-Jul	12:13:58	0
22	28-Jul	12:28:58	0
23	28-Jul	12:43:58	0
24	28-Jul	12:58:58	0
25	28-Jul	13:13:58	0
26	28-Jul	13:28:58	0
27	28-Jul	13:43:58	0
28	28-Jul	13:58:58	0
29	28-Jul	14:13:58	0
30	28-Jul	14:28:58	0.001

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# McCoy Field-Keith Middle School Construction Project New Bedford, MA

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## Daily Field Notes and Dust Monitoring

**Date:** July 29, 2004

**Field Personnel:** Christian Alarie, BETA Group, Inc.

**Time on Site:** 6:45-14:45

**Weather:** AM- Overcast 60°

PM- Warm, Sunny 75 to 85°

**Wind:** 7 am-Light, from North

### Summary of Activities Performed

WES Construction worked on compacting and grading fill material (clean sand and gravel) along embankment sections Q-8 through Q-12 and in the utility corridor as needed. WES also worked on moving clean fill (sand and gravel) and moved a pile of boulders out of the work zone.

WES excavated impacted soil in Outlet 5 (flared end). All removed soil was stockpiled near the Outlet and was covered with poly from the elements. An unusual odor was detected during the excavation of soils in Outlet 5. Soil samples were therefore collected from the excavated soil for laboratory analysis. No soil was removed from the Site today.

### Summary of Dust Monitoring Results

Two dust monitoring units on-site. One unit for manual logging and one unit set up for automatic logging.

Concentrations from manual logging in the morning ranged from .010-.054 mg/m<sup>3</sup>, with an average concentration of 0.032 mg/m<sup>3</sup>. Concentrations from manual logging in the afternoon ranged from .000-.080 mg/m<sup>3</sup>, with an average concentration of 0.072 mg/m<sup>3</sup>. All dust monitoring locations exhibited low (<0.100 mg/m<sup>3</sup>) levels of particulates, with the exception of the up wind reading recorded at 1:06 pm which was 0.215 mg/m<sup>3</sup>. The 1:06 reading was as a result of the movement of clean sand and the movement of construction vehicles to begin work at a different location. The access road and clean fill were wet down following the moderate detection of particulates.

Today's automatic dust monitoring logging data is identified as TAG # 41. The logging unit compiled average dust concentrations every fifteen minutes throughout the day. The

fifteen-minute averages ranged between approximately 0.000 mg/m<sup>3</sup>-0.059 mg/m<sup>3</sup>. The overall average concentration for the day was 0.002 mg/m<sup>3</sup>.

pDR-1000 S/N: 00000

User ID: 04701

Tag Number: 41

Number of logged points: 30

Start time and date: 06:58:09 29-Jul

Elapsed time: 07:30:00

Logging period (sec): 900

Calibration Factor (%): 100

Max Display Concentration: 0.224 mg/m<sup>3</sup>

Time at maximum: 13:15:44 Jul 29

Max STEL Concentration: 0.059 mg/m<sup>3</sup>

Time at max STEL: 07:10:39 Jul 29

Overall Avg Conc: 0.002 mg/m<sup>3</sup>

Logged Data:

Point	Date	Time	Avg.(mg/m <sup>3</sup> )
1	29-Jul	07:13:09	0.059
2	29-Jul	07:28:09	0.004
3	29-Jul	07:43:09	0
4	29-Jul	07:58:09	0
5	29-Jul	08:13:09	0
6	29-Jul	08:28:09	0.003
7	29-Jul	08:43:09	0
8	29-Jul	08:58:09	0
9	29-Jul	09:13:09	0
10	29-Jul	09:28:09	0
11	29-Jul	09:43:09	0.002
12	29-Jul	09:58:09	0.002
13	29-Jul	10:13:09	0
14	29-Jul	10:28:09	0
15	29-Jul	10:43:09	0
16	29-Jul	10:58:09	0
17	29-Jul	11:13:09	0
18	29-Jul	11:28:09	0
19	29-Jul	11:43:09	0
20	29-Jul	11:58:09	0
21	29-Jul	12:13:09	0
22	29-Jul	12:28:09	0
23	29-Jul	12:43:09	0.001
24	29-Jul	12:58:09	0.009
25	29-Jul	13:13:09	0.004
26	29-Jul	13:28:09	0.021
27	29-Jul	13:43:09	0.009
28	29-Jul	13:58:09	0.008
29	29-Jul	14:13:09	0.01
30	29-Jul	14:28:09	0.014

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# McCoy Field-Keith Middle School Construction Project New Bedford, MA

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## Daily Field Notes and Dust Monitoring

**Date:** July 30, 2004

**Field Personnel:** Christian Alarie, BETA Group, Inc.

**Time on Site:** 6:52-14:00

**Weather:** AM- Sunny, Warm 70 to 80°      PM- Warm, Sunny 80 to 85°

**Wind:** 7 am-Light, from South

### Summary of Activities Performed

WES Construction worked on excavating impacted soil in Outlets 3 and 4. All removed soil was stockpiled for later removal and was covered with poly from the elements. An unusual odor was detected during the excavation of soils in Outlet 4. Soil samples were therefore collected from the Outlet for laboratory analysis. No soil was removed from the Site today. No unusual odors were detected during the excavation of impacted soils from Outlet 3.

WES worked on laying utility pipe and the flared end in Outlet 5. Large stone and fill material was laid in the outlet area and was compacted as appropriate.

### Summary of Dust Monitoring Results

Two dust monitoring units on-site. One unit for manual logging and one unit set up for automatic logging.

Concentrations from manual logging in the morning ranged from .000-.136 mg/m<sup>3</sup>, with an average concentration of 0.021 mg/m<sup>3</sup>. Concentrations from manual logging in the afternoon ranged from .000-.065 mg/m<sup>3</sup>, with an average concentration of 0.015 mg/m<sup>3</sup>. All dust monitoring locations exhibited low (<0.100 mg/m<sup>3</sup>) levels of particulates, with the exception of the down wind reading recorded at 8:56 am which was 0.136 mg/m<sup>3</sup>. The access road and clean fill were wet down following the moderate detection of particulates.

Concentrations from the automatic logging unit (TAG #'s 42, 43 and 44) were reading unusually high in the morning with concentrations ranging from 0.100 to 0.390 mg/m<sup>3</sup>. Even in a dust free environment the readings were greater than 0.300 mg/m<sup>3</sup>. After

recalibrating the unit twice the readings began to restabilize but are still considered inaccurate.

pDR-1000 S/N: 00000

User ID: 04701

Tag Number: 42

Number of logged points: 9

Start time and date: 07:05:49 30-Jul

Elapsed time: 02:15:00

Logging period (sec): 900

Calibration Factor (%): 100

Max Display Concentration: 0.610 mg/m<sup>3</sup>

Time at maximum: 08:53:53 Jul 30

Max STEL Concentration: 0.321 mg/m<sup>3</sup>

Time at max STEL: 09:28:49 Jul 30

Overall Avg Conc: 0.098 mg/m<sup>3</sup>

Logged Data:

Point	Date	Time	Avg.(mg/m <sup>3</sup> )
1	30-Jul	07:20:49	0.031
2	30-Jul	07:35:49	0.039
3	30-Jul	07:50:49	0.041
4	30-Jul	08:05:49	0.035
5	30-Jul	08:20:49	0.034
6	30-Jul	08:35:49	0.031
7	30-Jul	08:50:49	0.035
8	30-Jul	09:05:49	0.248
9	30-Jul	09:20:49	0.242

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pDR-1000 S/N: 00000

User ID: 04701

Tag Number: 43

Number of logged points: 6

Start time and date: 09:38:50 30-Jul

Elapsed time: 01:30:00

Logging period (sec): 900

Calibration Factor (%): 100

Max Display Concentration: 0.900 mg/m<sup>3</sup>

Time at maximum: 09:43:58 Jul 30

Max STEL Concentration: 0.316 mg/m<sup>3</sup>

Time at max STEL: 11:20:50 Jul 30

Overall Avg Conc: 0.199 mg/m<sup>3</sup>

Logged Data:

Point	Date	Time	Avg.(mg/m <sup>3</sup> )
1	30-Jul	09:53:50	0.155
2	30-Jul	10:08:50	0.148
3	30-Jul	10:23:50	0.157
4	30-Jul	10:38:50	0.163
5	30-Jul	10:53:50	0.17
6	30-Jul	11:08:50	0.302

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pDR-1000 S/N: 00000

User ID: 04701

Tag Number: 44

Number of logged points: 10

Start time and date: 11:23:46 30-Jul

Elapsed time: 02:30:00

Logging period (sec): 900

Calibration Factor (%): 100

Max Display Concentration: 0.352 mg/m<sup>3</sup>

Time at maximum: 13:24:47 Jul 30

Max STEL Concentration: 0.145 mg/m<sup>3</sup>

Time at max STEL: 13:32:46 Jul 30

Overall Avg Conc: 0.009 mg/m<sup>3</sup>

Logged Data:

Point	Date	Time	Avg.(mg/m <sup>3</sup> )
1	30-Jul	11:38:46	0.028
2	30-Jul	11:53:46	0.003
3	30-Jul	12:08:46	0.054
4	30-Jul	12:23:46	0.067
5	30-Jul	12:38:46	0.001
6	30-Jul	12:53:46	0.001
7	30-Jul	13:08:46	0
8	30-Jul	13:23:46	0.046
9	30-Jul	13:38:46	0.113
10	30-Jul	13:53:46	0

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