O'BRIEN & GERE



September 13, 2006

Mr. Jeff Dyber, P.E.
Environmental Engineer 2
New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Eastern Remedial Action
625 Broadway
Albany, New York 12233

Re: National Heatset Printing
**Operation & Maintenance Report-**
**July 2006**
1 Adams Boulevard
Farmingdale, New York
NYSDEC Site 1-52-140

File: 10653/35518 #5

Dear Mr. Dyber:

This letter provides an overview of the ongoing operation of the soil vapor extraction (SVE) system at the National Heatset Printing Site in Farmingdale, New York (Figure 1). A site visit was performed by YEC, Inc. (YEC) personnel on July 12, 2006 on behalf of O'Brien & Gere Engineers, Inc (OBG) in accordance with our approved Work Plan.

System Operation

The SVE system operated for 100% of the reporting period (June 12, 2006 to July 12, 2006). The system operational data is summarized in Table 1 and on the site visit data collection form provided in Appendix A. Based on the run time meter, the system was operational for a total of 720 hours.

A flow of 163 cfm and a vacuum of 54 inches of water column were observed at the extraction well. The SVE blower operated at a flow of 191 cubic feet per minute (cfm) as measured at the SVE influent. Field personnel recorded a tetrachloroethene (PCE) concentration of 2.0 ppm (by Draeger tube) and a concentration of volatile organic compounds (VOCs) of 8.1 ppm (by PID) from the extraction well (pre-dilution).

VOC concentrations of 8.3 ppm (by PID) and a PCE concentration of 8.0 ppm (by Draeger Tube) were observed at the SVE influent port during the site visit. VOC concentrations of 8.8 ppm (by PID) and a PCE concentration of 10.0 ppm (by Draeger Tube) were observed from the Vapor-phase Granular Activated Carbon (VGAC) mid sampling port, and a VOC concentration of 0.0 ppm (by PID) and a PCE concentration of 0.0 ppm (by Draeger Tube) were observed from the effluent sampling port. Refer to Table 1.

Monitoring Probes

A vacuum of 4.6, 0.5, 0.55, 0.5, 0.25, 0.3, 0.3, 0.14, 0.05, 0.04 inches of water column were observed during the site visit at vapor monitoring points VP-1, VP-2, VP-3, VP-7, VP-8, VP-9, VP-11, VP-12, VP-13 and VP-14, respectively. Monitoring point VP-10 was covered by boxes in Eagle Box Company and was inaccessible. The vapor points will continue to be monitored during future site visits.

PCE Removal

PCE removal was calculated for this reporting period using SVE influent PCE concentrations and flow rate measured at the SVE influent sampling point. The SVE system removed approximately 17 pounds of PCE from the extraction well during this reporting period and has removed approximately 2,454 pounds of PCE to date. A summary of the estimated PCE mass removal over time is presented in Table 2.

Air Discharge Monitoring

YEC personnel collected an air sample from the system effluent and submitted the sample to Mitkem Corporation for analysis. The sample was analyzed for volatile organic compounds (VOCs) using USEPA method TO-14. Cis-1,2-DCE was detected at an estimated value of 0.6 which is below the detection limit of 1 $mg/m^3$. Concentrations of PCE, TCE were not detected in the effluent sample above a detection limit of 1 $mg/m^3$. Analytical results are summarized in Table 3 and the laboratory data report is presented in Appendix B. A summary of the field monitoring and laboratory air discharge monitoring results is presented as Table 4.

Based on the effluent sampling results, 0.38 lbs of cis-1,2-DCE was discharged during the reporting period and no TCE or PCE was discharged. A total of 1.29 lb of PCE has been discharged during the year 2006 toward the permitted annual discharge limit of 270 lb. A total of 0.38 lb of cis-1, 2-DCE has been discharged during the year 2006 toward the permitted annual discharge limit of 5,510 lbs. A total of 0.0 lb of TCE has been discharged during the year 2006 toward the permitted annual discharge limit of 120 lb.

Conclusions and Recommendations

Based on the data collected from the SVE system during this reporting period, OBG recommends continued operation of the SVE system. The extraction well (MW-F) valve remained at the 100% open position, and the dilution valve remained at the 50% open position during this site visit.

Please do not hesitate to contact me at 315-437-6100 with any questions you might have regarding this report.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.

Marc J. Dent P.E.
Managing Engineer

cc. Trevor Staniec – O'Brien & Gere
Dan Simpson - YEC

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Attachments

# TABLES

**TABLE 1**
**SUMMARY OF SOIL VAPOR EXTRACTION SYSTEM READINGS**
**NATIONAL HEATSET PRINTING**
**1 ADAMS BLVD., FARMINGDALE, NY**

| Date | Run Time Meter Reading (hours) | Run Time Since Last Visit (hours) | | Operation Time Since Last Visit (%) | Dilution Valve Position (% Open) | Extraction Well MW-F Valve Position (% Open) | Air Flow at Well (scfm) | Vacuum at Well (inches H2O) | Pre-Dilution PID (ppm) | Pre-Dilution PCE (ppm) | Influent SVE | | | | | Mid GAC | | | | Effluent GAC | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Available | Actual | | | | | | | | Blower Flow (cfm) | Vacuum (inches H2O) | Temp. (°F) | PID (ppm) | PCE (ppm) | Flow (cfm) | Temp. (°F) | PID (ppm) | PCE (ppm) | Flow (cfm) | Temp. (°F) | PID (ppm) | PCE (ppm) |
| 9/18/2002 | -- | -- | -- | SVE PILOT TEST STARTUP | | | | | | | | | | | | | | | | | | | |
| 9/30/2002 | 304 | 294 | 294 | 100% | 100 | 50 | 34.5 | 5 | 2,000 | 500 | 256 | 25 | 107.2 | 1,015 | -- | 317 | 102.3 | 0 | -- | 290 | 89.5 | 0 | -- |
| 10/14/2002 | 642 | 343 | 338 | 99% | 100 | 50 | 38 | 7 | 1,011 | 400 | 258 | 27 | -- | 75.3 | 50 | -- | -- | 0 | -- | -- | -- | 0 | -- |
| 11/19/2002 | 1508 | 882 | 866 | 98% | 100 | 50 | 49 | 12 | 0 | 0 | 120 | 28 | 106 | 0 | 0 | 209 | 92 | 0 | -- | 290 | 80.3 | 0 | -- |
| 12/4/2002 | -- | 368 | -- | -- | -- | -- | -- | -- | 77 | 200 | -- | -- | -- | 14.3 | 10 | -- | -- | 15.5 | 10 | -- | -- | 0 | 0 |
| 12/16/2002 | 2153 | 294 | 645 | 98% | 100 | 50 | 36.5 | 10 | 560 | 200 | 253 | 28 | 92 | 46.4 | 50 | 302 | 60 | 3.4 | -- | 340 | 53.9 | 0 | -- |
| 1/21/2003 | 3016 | 882 | 863 | 98% | 100 | 50 | -- | -- | -- | -- | 70 | 52 | 98 | 0 | 0 | 220 | -- | 0 | -- | 220 | -- | 0 | -- |
| 2/10/2003 | 3496 | 490 | 480 | 98% | 100 | 50 | 38 | -- | 639 | 400 | 262 | 27 | 102 | 72 | 50 | 266 | 90 | 26 | 10 | 258 | 83 | 3.2 | 10 |
| 3/18/2003 | 4360 | 882 | 864 | 98% | 100 | 50 | 92 | 12 | 125 | 100 | 266 | 25 | 123 | 15 | 10 | 278 | 124 | 0 | 0 | 282 | 117 | 0 | 0 |
| 4/29/2003 | 5359 | 1029 | 999 | 97% | 75 | 50 | 75 | 50 | 152 | 50 | 132 | 16 | 118.5 | 48.2 | 25 | 302 | 96 | 18.6 | 10 | 287 | 86 | 0.6 | 0 |
| 5/13/2003 | 5700 | 343 | 341 | 99% | 75 | 50 | 78 | -- | 127 | 50 | 239 | 48 | 130 | 41.8 | 50 | 246 | 108 | 46 | 25 | 245 | 97 | 0.6 | 0 |
| 6/30/2003 | 6850 | 1176 | 1150 | 98% | 50 | 50 | 115 | 32 | 82.4 | 50 | 140 | 66 | 173 | 36.8 | 50 | 198 | 157 | 25.1 | 25 | 240 | 150 | 29.8 | 100 |
| 7/10/2003 | 6851 | 245 | 1 | 0% | 50 | 50 | 99.5 | 25 | 406 | 400 | 151 | 68 | 156 | 221 | 215 | 260 | 76 | 0 | 0 | 222 | 81.9 | 0 | 0 |
| 7/22/2003 | 7144 | 294 | 294 | 100 | 50 | 50 | -- | -- | 127 | -- | -- | -- | 168 | 65 | -- | -- | 107 | 0 | -- | -- | 106 | 0 | -- |
| 8/26/2003 | 7957 | 858 | 813 | 95 | 50 | 50 | 79 | 13.5 | 137 | 10 | 186 | 65 | 170 | 51.4 | 5 | 291 | -- | 55.4 | 10 | 232 | -- | 35.6 | 10 |
| 9/23/2003 | 8274 | 686 | 317 | 46 | 50 | 50 | 218 | 33 | 141 | 15 | 194 | 64 | 160 | 55 | 30 | 254 | 124 | 0 | 0 | 210 | 110 | 0 | 0 |
| 10/21/2003 | 8945 | 686 | 671 | 98 | 50 | 50 | 166 | 45 | -- | 20 | 158 | 68 | 166 | 37.5 | 25 | 214 | 130 | 30.7 | 15 | 225 | 112 | 0 | 0 |
| 11/24/2003 | 9749 | 833 | 805 | 97 | 50 | 50 | 130 | 46 | 141 | 125 | 178 | 72 | 138 | 261 | 200 | 225 | 52 | 0 | 0 | 205 | 51.4 | 0 | 0 |
| 1/6/2004 | 9750 | 1054 | 1 | 0 | 50 | 50 | 98.5 | 74 | 118 | 100 | 164 | 12 | 140 | 247 | 250 | 224 | 48.6 | 0 | 0 | 200 | 48.4 | 0 | 0 |
| 2/9/2004 | 10336 | 833 | 586 | 70 | 50 | 50 | 121 | 44 | 23.1 | 10 | 172 | 70 | 155.8 | 29.8 | 25 | 233 | 137 | 41.4 | 25 | 235 | 117 | 0 | 0 |
| 3/30/2004 | 11289 | 1225 | 953 | 78 | 50 | 50 | 103 | >50 | 34 | <10 | 198 | 70 | 160 | 22 | <10 | 240 | 128 | 22 | <10 | 160 | 115 | 24 | <5 |
| 4/8/2004 | 11441 | 221 | 152 | 69 | 50 | 75 | 127 | -- | 23.7 | <10 | -- | -- | -- | -- | -- | 180 | 83 | 30 | -- | 206 | 83 | 0.9 | -- |
| 4/29/2004 | 11768 | 515 | 327 | 64 | 50 | 75 | 131 | >60 | 2.4 | 0 | -- | 76 | 170 | 2.2 | 0 | 209 | 128 | 0 | 0 | 255 | 116 | 0 | 0 |
| 5/24/2004 | 12264 | 613 | 496 | 81 | 50 | 75 | 144 | 75 | 43.8 | 50 | 172 | 75 | 178 | 33.1 | <50 | 250 | 121 | 4.4 | 0 | 198 | 111 | 0 | 0 |
| 6/22/2004 | 12817 | 711 | 553 | 78 | 50 | 75 | 127 | 74 | 57 | 10 | 140 | 76 | 180 | 52 | 30 | 181 | 123 | 25.8 | 15 | 210 | 113 | 0 | 0 |
| 7/28/2004 | 13630 | 882 | 813 | 92 | 50 | 75 | 142 | 76.5 | 53.2 | 7 | 161 | 76.5 | 159 | 41.1 | 25 | 216 | 137 | 35.3 | 20 | 181 | 109 | 3.1 | 0 |
| 8/31/2004 | 13989 | 833 | 359 | 43 | 25 | 90 | 157 | 58 | 48 | 0 | 104 | 74 | 137 | 202 | 200 | 180 | 98 | 2.2 | 0 | 187 | 91 | 0.1 | 0 |
| 9/29/2004 | 14256 | 711 | 267 | 38 | 50 | 75 | 139 | 60 | -- | -- | 140 | 76 | 153 | 27.7 | -- | 194 | 126 | 0 | -- | 205 | 102.1 | 0 | -- |
| 10/20/2004 | 14729 | 515 | 473 | 92 | 50 | 75 | 155 | 58 | -- | -- | 120 | 76 | 160 | 19.1 | 10 | 202 | 122 | 0 | 0 | 230 | 101 | 0 | 0 |
| 11/17/2004 | 15229 | 686 | 499 | 73 | 75 | 50 | 160 | 80 | 17.9 | <5 | 148 | 77 | 160 | 13.5 | <10 | 152 | 112 | 7.2 | <5 | 173 | 94 | 0 | 0 |
| 12/22/2004 | 15565 | 858 | 337 | 39 | 75 | 50 | 143 | 80 | 15.8 | <5 | 125 | 85 | 160 | 18.3 | 10 | 127 | 116 | 16 | 5 | 131 | 93.4 | 0 | 0 |
| 1/20/2005 | 15933 | 711 | 368 | 52 | 25 | 100 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 2/23/2005 | 15933 | 833 | 0 | 0 | 75 | 50 | 87.5 | 36 | 174 | 50 | 188 | 58 | 110 | 93 | 50 | 265 | 56 | 0 | 0 | 245 | 38.5 | 0 | 0 |
| 3/29/2005 | 16217 | 833 | 284 | 34 | 75 | 50 | 87 [1] | 40 | -- | -- | 158 [1] | -- | 121 | 6.4 | 4.5 | 255 [1] | 97 | 3.4 | 3 | 234 [1] | 81 | 0 | <2 |
| 4/28/2005 | -- | 720 | 720 [2] | 100 | 75 | 50 | 86 | 39 | -- | -- | 227 | -- | 126 | 8.9 | 5 | 244 | 109 | 8 | 4 | 222 | 84.2 | 0 | <2 |
| 5/31/2005 | -- | 792 | 792 [2] | 100 | 50 | 50 | 98 | 39 | 7.4 | 9.5 | 208 | -- | 124.2 | 10.4 | 10 | 227 | 118.6 | 17.6 | 10 | 223 | 112.3 | 0 | <2 |
| 6/24/2005 | | 576 | 576 [2] | 100 | 50 | 50 | 125 | 25 | 28.5 | 16 | 266 | -- | 152 | 8.3 | 7 | 283 | 133 | 13.9 | 16 | 242 | 116 | 10.1 | 15 |
| 8/4/2005 | 17972 | 984 | 984 [2] | 100 | 75 | 65 | 216 | 26 | 38.1 | 19 | 353 | -- | 153.4 | 8.8 | 12 | 423 | 135.7 | 10.5 | 12 | 381 | 120.7 | 7.5 | 12 |
| *Spent Carbon Replaced 8/10/05* | | | | | | | | | | | | | | | | | | | | | | | |
| 9/13/2005 | 859 | 960 | 960 [2] | 100 | 75 | 50 | 89.5 | 25 | 59.6 | 14 | 226 | -- | 164.5 | 18.3 | 12 | 265 | 143 | 0.5 | 0 | 248 | 124.6 | 0 | 0 |
| 10/10/2005 | 1502 | 643 | 643 | 100 | 75 | 35 | 86 | 27 | 59.2 | 19 | 222 | -- | 101.3 | 21.7 | 10 | 225 | 110 | 15.1 | 0 | 211 | 99.3 | 0 | 0 |
| 11/11/2005 | 2271 | 769 | 769 | 100 | 50 | 50 | 79 | 31 | -- | 5 | 209 | -- | 110.9 | 12.2 | 9 | 242 | 99.4 | 2.6 | 2 | 239 | 83.1 | 0 | 0 |

Notes:

[1] Calculated flows based on the average of flows measured on 3-29-05 and 4-28-05

[2] Run time meter reading not indicitive of SVE system run time; actual hours run is assumed 100% of available.

PID = Total VOC concentration measured with photoionization detector

ppm = parts per million (volume/volume basis)

PCE = Tetrachloroethene (PCE) concentration measured with Drager tube of 10-500 ppm range

scfm = standard cubic feet per minute

cfm = cubic feet per minute

-- = measurement not recorded or not applicable.

Influent SVE = Readings collected between the SVE Blower and the Carbon Units

Mid GAC = Readings collected between the lead and lag carbon units

Effluent GAC = Readings collected after the lag carbon unit

GAC = granular activated carbon unit

As of 4/28/05, the calculation of "Available" run time hours is based on 24 hours, rather than 24.5 hours as prevously calculated.

**TABLE 1**
**SUMMARY OF SOIL VAPOR EXTRACTION SYSTEM READINGS**
**NATIONAL HEATSET PRINTING**
**1 ADAMS BLVD., FARMINGDALE, NY**

| Date | Run Time Meter Reading (hours) | Run Time Since Last Visit (hours) | | Operation Time Since Last Visit (%) | Dilution Valve Position (% Open) | Extraction Well MW-F Valve Position (% Open) | Air Flow at Well (scfm) | Vacuum at Well (inches H2O) | Pre-Dilution PID (ppm) | Pre-Dilution PCE (ppm) | Influent SVE | | | | | Mid GAC | | | | Effluent GAC | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Available | Actual | | | | | | | | Blower Flow (cfm) | Vacuum (inches H2O) | Temp. (°F) | PID (ppm) | PCE (ppm) | Flow (cfm) | Temp. (°F) | PID (ppm) | PCE (ppm) | Flow (cfm) | Temp. (°F) | PID (ppm) | PCE (ppm) |
| 12/8/2005 | 2918 | 647 | 647 | 100 | 50 | 50 | 79 | 29 | 22.2 | 5.0 | 235 | -- | 113.5 | 7.2 | 2.0 | 227 | 96.7 | 6.8 | 2 | 212 | 79.8 | 0.1 | 0.0 |
| 1/6/2006 | 3614 | 696 | 696 | 100 | 50 | 75 | 120 | 42 | 2.7 | 2.0 | 245 | -- | 82 | 32.5 | 4.0 | 280 | 83.9 | 19.0 | 2.0 | 265 | 77.5 | 5.8 | 0.0 |
| *Spent Carbon Replaced 1/25/06* | | | | | | | | | | | | | | | | | | | | | | | |
| 2/6/2006 | 4332 | 744 | 718 | 97 | 75 | 75 | 80 | 25 | 16.3 | 3.0 | 292 | -- | 78 | 3.6 | 2.0 | 333 | 90.9 | 0.0 | 0.0 | 322 | 77 | 0.0 | 0.0 |
| 3/14/2006 | 5200 | 868 | 868 | 100 | 75 | 75 | 188 | 49 | 12.9 | 2.0 | 212 | -- | 132.8 | 5.5 | 5.0 | 287 | 135.6 | 0.0 | 0.0 | 232 | 115.1 | 0.0 | 0.0 |
| 4/12/2006 | 5895 | 695 | 695 | 100% | 75 | 75 | 115 | 47 | 14.1 | 2.0 | 259 | -- | 152.1 | 6.1 | 6.0 | 249 | 153.2 | 0.0 | 0.0 | 271 | 135.1 | 0.0 | 0.0 |
| 5/4/2006 | 6420 | 525 | 525 | 100% | 50 | 75 | 189 | 51 | 17.9 | 2.0 | 199 | -- | 145.2 | 7.8 | 5.0 | 186 | 136.1 | 0.1 | 0.0 | 214 | 117.8 | 0.0 | 0.0 |
| 6/12/2006 | 7354 | 934 | 934 | 100% | 50 | 100 | 156 | 53 | 5.5 | 4.0 | 216 | -- | 141 | 7.9 | 9.0 | 270 | 134 | 4.1 | 3.0 | 253 | 116 | 0.0 | 0.0 |
| 7/12/2006 | 8074 | 720 | 720 | 100% | 50 | 100 | 163 | 54 | 8.1 | 2.0 | 191 | -- | 146 | 8.3 | 8.0 | 210 | 145 | 8.8 | 10.0 | 196 | 134 | 0.0 | 0.0 |

Notes:
(1) Calculated flows based on the average of flows measured on 3-29-05 and 4-28-05
(2) Run time meter reading not indictitive of SVE system run time; actual hours run is assumed 100% of available.
PID = Total VOC concentration measured with photoionization detector
ppm = parts per million (volume/volume basis)
PCE = Tetrachloroethene (PCE) concentration measured with Drager tube of 10-500 ppm range
scfm = standard cubic feet per minute
cfm = cubic feet per minute

-- = measurement not recorded or not applicable.

Influent SVE = Readings collected between the SVE Blower and the Carbon Units
Mid GAC = Readings collected between the lead and lag carbon units
Effluent GAC = Readings collected after the lag carbon unit
GAC = granular activated carbon unit
As of 4/28/05, the calculation of "Available" run time hours is based on 24 hours, rather than 24.5 hours as prevously calculated.

**TABLE 2**
**PCE**
**REMOVAL ESTIMATE**
**NATIONAL HEATSET PRINTING**
**1 ADAMS BLVD., FARMINGDALE, NY**

| Date | VOC Influent Concentration (ppmv) | PCE Influent Concentration (ppmv) | % PCE of Total VOCs | Extraction Well Flow Rate (cfm) [2] | Elapsed Time Since Last Visit (day) | PCE Removal Since Last Visit (lb) | Cumulative PCE Removal (lb) |
|---|---|---|---|---|---|---|---|
| 9/18/2002 | SVE PILOT TEST STARTUP | | | | | | |
| 9/30/2002 | 2000 [1] | 500 [1] | 25.0 | 34.5 | 12 | 126 | 126 |
| 10/14/2002 | 1,011 | 400 | 39.6 | 38 | 14 | 127 | 253 |
| 11/19/2002 | 0 | 0 | -- | 49 | 36 | 113 | 367 |
| 12/16/2002 | 560 | 200 | 35.7 | 36.5 | 27 | 69 | 436 |
| 1/13/2003 | 485 | 400 | 82.5 | 28.5 | 28 | 154 | 589 |
| 1/21/2003 | 0 | 0 | -- | 0 | 8 | 63 | 652 |
| 2/10/2003 | 639 | 400 | 62.6 | 38 | 20 | 64 | 715 |
| 3/5/2003 | 263 | 200 | 76.0 | 24.4 | 23 | 129 | 844 |
| 3/18/2003 | 125 | 100 | 80.0 | 92 | 13 | 76 | 920 |
| 4/29/2003 | 152 | 50 | 32.9 | 75 | 42 | 105 | 1,025 |
| 5/13/2003 | 127 | 50 | 39.4 | 78 | 14 | 65 | 1,090 |
| 6/30/2003 | 82.4 | 50 | 60.7 | 115 | 48 | 89 | 1,179 |
| 7/22/2003 | 406 | 400 | 98.5 | 99.5 | 12 | 187 | 1,367 |
| 8/26/2003 | 137 | 10 | 7.3 | 79 | 35 | 276 | 1,643 |
| 9/23/2003 | 141 | 15 | 10.6 | 218 | 14 | 14 | 1,657 |
| 10/21/2003 | 37.5 | 20 | 53.3 | 166 | 28 | 41 | 1,698 |
| 11/24/2003 | 141 | 125 | 88.7 | 130 | 34 | 179 | 1,877 |
| 1/6/2004 | 118 | 100 | 84.7 | 98.5 | 43 | -- | 1,877 |
| 2/9/2004 | 23.1 | 10 | 43.3 | 121 | 34 | 91 | 1,968 |
| 3/30/2004 | 22 | 10 | 45.5 | 103 | 50 | 22 | 1,990 |
| 4/29/2004 | 2.4 | 0 | 0.0 | 131 | 30 | 8 | 1,999 |
| 5/24/2004 | 43.8 | 50 | 114.2 | 144 | 25 | 49 | 2,047 |
| 6/22/2004 | 57 | 10 | 17.5 | 127 | 29 | 54 | 2,102 |
| 7/28/2004 | 53.2 | 7 | 13.2 | 142 | 36 | 21 | 2,122 |
| 8/12/2004 | 48 | 0 | 0 | 157 | 15 | 8 | 2,130 |
| 9/29/2004 | 27.7 | 0 | -- | 139 | 48 | 0 | 2,130 |
| 10/20/2004 | 19.1 | 10 | -- | 140 | 21 | 14 | 2,144 |
| 11/17/2004 | 17.9 | 10 | 55.9 | 160 | 28 | 16 | 2,160 |
| 12/22/2004 | 15.8 | 5 | 31.6 | 143 | 35 | 9 | 2,169 |
| 1/20/2005 | -- | -- | -- | -- | -- | -- | -- |
| 2/23/2005 | 174 | 50 | 28.7 | 87.5 | 34 | -- | -- |
| Date | VOC Influent Concentration (ppmv) | PCE Influent Concentration (ppmv) | % PCE of Total VOCs | SVE Influent Flow Rate (cfm) [2] | Elapsed Time Since Last Visit (day) | PCE Removal Since Last Visit (lb) | Cumulative PCE Removal (lb) |
| 3/29/2005 | 6.4 | 4.5 | 70.3 | 158 | 34 | 11 | 2,180 |
| 4/28/2005 | 8.9 | 5 | 56.2 | 227 | 30 | 10 | 2,190 |
| 5/31/2005 | 10.4 | 10 | 96.2 | 208 | 33 | 18 | 2,208 |
| 6/24/2005 | 8.3 | 7 | 84.3 | 266 | 24 | 16 | 2,224 |
| 8/4/2005 | 8.8 | 12 | 136.4 | 353 | 41 | 39 | 2,263 |

Notes:

[1] = VOC concentrations of 2,000 ppm and PCE concentrations of 500 ppm are greater than the limit of their respective monitoring device and are to be taken as estimations.

[2] SVE Influent (post-dilution) monitoring point data used for calculation of PCE Removal for dates including and subsequent to March 29, 2005; Removal updated on 1-3-06 to represent SVE Influent flow rate.

Removal Rate = [(flow(cfm)*influent conc.(ppmv)*MW*12.187)/(273.15+C)]*1 cu. m./35.31 cu. ft*1g/1000 mg*1 lb/453.6 g *60 min/1 hr*24 hr/1 day*days of operation

[3] Run time meter reading not indictitive of SVE system run time; actual hours run is assumed equal to elapsed time.

Where: MW = molecular weight; Molecular weight (MW) of PCE is 165.85; C = degrees centigrade, as measured; lb = pounds; ppmv = parts per million (volume/volume basis); -- = information not available

flow = average of the present and the previous months measured SVE influent rate in cubic feet per minute (cfm)

**TABLE 2**
**PCE**
**REMOVAL ESTIMATE**
**NATIONAL HEATSET PRINTING**
**1 ADAMS BLVD., FARMINGDALE, NY**

| Date | VOC Influent Concentration (ppmv) | PCE Influent Concentration (ppmv) | % PCE of Total VOCs | SVE Influent Flow Rate (cfm) [2] | Elapsed Time Since Last Visit (day) | PCE Removal Since Last Visit (lb) | Cumulative PCE Removal (lb) |
|---|---|---|---|---|---|---|---|
| *Spent Carbon Replaced 8/10/05* | | | | | | | |
| 9/13/2005 | 18.3 | 12 | 65.6 | 226 | 40 | 43 | 2,306 |
| 10/10/2005 | 21.7 | 10 | 46.1 | 222 | 27 | 22 | 2,328 |
| 11/11/2005 | 12.2 | 9 | 73.8 | 209 | 32 | 25 | 2,353 |
| 12/8/2005 | 7.2 | 2 | 27.8 | 235 | 27 | 12 | 2,365 |
| 1/6/2006 | 32.5 | 4 | 12.3 | 245 | 29 | 8 | 2,373 |
| *Spent Carbon Replaced 1/25/06* | | | | | | | |
| 2/6/2006 | 3.6 | 2 | 55.6 | 292 | 30 | 10 | 2,383 |
| 3/14/2006 | 5.5 | 5 | 90.9 | 212 | 36 | 13 | 2,396 |
| 4/12/2006 | 6.1 | 6 | 98.4 | 259 | 29 | 14 | 2,410 |
| 5/4/2006 | 7.8 | 5 | 64.1 | 199 | 22 | 9 | 2,419 |
| 6/12/2005 | 7.9 | 9 | 113.9 | 216 | 39 | 18 | 2,437 |
| 7/12/2006 | 8.3 | 8 | 96.4 | 191 | 30 | 17 | 2,454 |

Notes:

[1] = VOC concentrations of 2,000 ppm and PCE concentrations of 500 ppm are greater than the limit of their respective monitoring device and are to be taken as estimations.

[2] SVE Influent (post-dilution) monitoring point data used for calculation of PCE Removal for dates including and subsequent to March 29, 2005; Removal updated on 1-3-06 to represent SVE Influent flow rate.

Removal Rate = [(flow(cfm)*influent conc.(ppmv)*MW*12.187)/(273.15+C)]*1 cu. m./35.31 cu. ft*1g/1000 mg*1 lb/453.6 g *60 min/1 hr*24 hr/1 day*days of operation

[3] Run time meter reading not indictitive of SVE system run time; actual hours run is assumed equal to elapsed time.

Where:
MW = molecular weight
Molecular weight (MW) of PCE is 165.85
C = degrees centigrade, as measured
lb = pounds
ppmv = parts per million (volume/volume basis)
-- = information not available
flow = average of the present and the previous months measured SVE influent rate in cubic feet per minute (cfm)

**TABLE 3**
**AIR SAMPLE ANALYTICAL RESULTS**
**NATIONAL HEATSET PRINTING**
**1 ADAMS BLVD., FARMINGDALE, NY**

| SVE Influent Concentration (mg/m3) | | | |
|---|---|---|---|
| Date | cis-1,2-Dichloroethene | Tetrachloroethene (PCE) | Trichloroethene |
| 9/18/2002 | 5 | 600E | 31 |
| 9/30/2002 | ND (5) | 360E | 23 |
| 10/14/2002 | -- | -- | -- |
| 11/19/2002 | -- | -- | -- |

| VGAC Effluent Concentration (mg/m3) | | | |
|---|---|---|---|
| Date | cis-1,2-Dichloroethene | Tetrachloroethene (PCE) | Trichloroethene |
| 9/18/2002 | -- | -- | -- |
| 9/30/2002 | -- | -- | -- |
| 10/14/2002 | -- | -- | -- |
| 11/19/2002 | -- | -- | -- |
| 12/16/2002 | ND (5) | ND (5) | ND (5) |
| 1/21/2003 | -- | -- | -- |
| 2/10/2003 | ND (5) | 8 | 6 |
| 3/18/2003 | -- | -- | -- |
| 4/29/2003 | -- | -- | -- |
| 5/13/2003 | ND (1) | 5 | ND (1) |
| 6/30/2003 | -- | -- | -- |
| 7/22/2003 | ND (1) | ND (1) | ND (1) |
| 8/26/2003 | ND (5) | 29 | 3.6 |
| 9/23/2003 | ND (5) | ND (5) | ND (5) |
| 10/21/2003 | ND (5) | ND (5) | ND (5) |
| 11/24/2003 | -- | -- | -- |
| 1/6/2004 | -- | -- | -- |
| 2/9/2004 | 10 | ND (5) | ND (5) |
| 3/30/2004 | 2J | 77 | 1J |
| 4/29/2004 | ND (5) | 10 | ND (5) |
| 5/24/2004 | ND (1) | ND (1) | ND (1) |
| 6/22/2004 | ND (1) | ND (1) | ND (1) |
| 7/28/2004 | ND (5) | ND (5) | ND (5) |
| 8/12/2004 | -- | -- | -- |
| 9/29/2004 | ND (1) | ND (1) | ND (1) |
| 10/20/2004 | ND (1) | ND (1) | ND (1) |
| 11/17/2004 | ND (1) | ND (1) | ND (1) |
| 12/22/2004 | ND (1) | ND (1) | ND (1) |
| 1/20/2005 | -- | -- | -- |
| 3/29/2005 | 2 | ND (1) | ND (1) |
| 4/28/2005 | 1 | 0.5J | ND (1) |
| 5/31/2005 | 1 | 5 | 2 |
| 6/24/2005 | 0.8J | 64 | 2 |
| 8/4/2005 | 0.7J | 57 | 1J |
| *Spent Carbon Replaced 8/10/05* | | | |
| 9/13/2005 | ND (1) | ND (1) | ND (1) |
| 10/10/2005 | ND (1) | ND (1) | ND (1) |
| 11/11/2005 | ND (1) | ND (1) | ND (1) |
| 12/8/2005 | ND (1) | ND (1) | ND (1) |
| 1/6/2006 | ND (1) | ND (1) | ND (1) |
| *Spent Carbon Replaced 1/25/06* | | | |
| 2/6/2006 | ND (1) | 1 | ND (1) |

Notes:
Only compounds that were detected above the method reporting limit were presented above
ND (5) = Not detected above method reporting limit in parenthesis
E = Concentation exceeded calibration range
-- = sample not collected
SVE = Soil vapor extraction
J = Estimated Value
VGAC = vapor-phase granular activated carbon
mg/m3 = milligrams per cubic meter

**TABLE 3**
**AIR SAMPLE ANALYTICAL RESULTS**
**NATIONAL HEATSET PRINTING**
**1 ADAMS BLVD., FARMINGDALE, NY**

| | VGAC Effluent Concentration (mg/m3) | | |
|---|---|---|---|
| Date | cis-1,2-Dichloroethene | Tetrachloroethene (PCE) | Trichloroethene |
| 3/14/2006 | ND (1) | ND (1) | ND (1) |
| 4/12/2006 | ND (1) | 0.6J | ND (1) |
| 5/4/2006 | ND (1) | ND (1) | ND (1) |
| 6/12/2006 | ND (1) | ND (1) | ND (1) |
| 7/12/2005 | 0.6 J | ND (1) | ND (1) |

Notes:
Only compounds that were detected above the method reporting limit were presented above
ND (5) = Not detected above method reporting limit in parenthesis
E = Concentation exceeded calibration range
-- = sample not collected
SVE = Soil vapor extraction
J = Estimated Value
VGAC = vapor-phase granular activated carbon
mg/m3 = milligrams per cubic meter

**TABLE 4**
**AIR DISCHARGE MONITORING**
**NATIONAL HEATSET PRINTING**
**1 ADAMS BLVD., FARMINGDALE, NY**

| | | Field Monitoring | | | Laboratory Results | | | Discharge based on Field Monitoring | | Discharge based on Laboratory Results | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | System Effluent Flow Rate (cfm) | PCE System Effluent Concentration (ppmv) | System Effluent VOC Concentration (ppmv) | Elapsed Time (day) | PCE (mg/cu m.) | TCE (mg/cu m.) | cis-1,2-DCE (mg/cu m.) | PCE Discharge Since Last Visit (lb/hr) | PCE Discharge Since Last Visit (lb) | PCE Discharge Since Last Visit: lb/hr | PCE Discharge Since Last Visit (lb) | TCE Discharge Since Last Visit (lb/hr) | TCE Discharge Since Last Visit (lb) | cis-1,2-DCE Discharge Since Last Visit (lb/hr) | cis-1,2-DCE Discharge Since Last Visit (lb) |
| 9/18/2002 | SVE PILOT TEST STARTUP | | | | | | | | | | | | | | |
| 9/30/2002 | 290 | -- | 0 | 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 10/14/2002 | -- | -- | 0 | 14 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 11/19/2002 | 290 | -- | 0 | 36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 12/16/2002 | 340 | -- | 0 | 27 | ND (5) | ND (5) | ND (5) | -- | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 1/13/2003 | 45 | 0 | -- | 28 | -- | -- | -- | 0.0000 | 0.00 | -- | -- | -- | -- | -- | -- |
| 1/21/2003 | 220 | -- | 0 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 2/10/2003 | 258 | 10 | 3.2 | 20 | 8.0 | 6.0 | ND (5) | 0.0654 | 31.40 | 0.008 | 3.71 | 0.006 | 2.78 | 0.00 | 0.00 |
| 3/5/2003 | 305 | -- | 0 | 23 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 3/18/2003 | 282 | 0 | 0 | 13 | -- | -- | -- | 0.0000 | 0.00 | -- | -- | -- | -- | -- | -- |
| 4/29/2003 | 287 | 0 | 0.6 | 42 | -- | -- | -- | 0.0000 | 0.00 | -- | -- | -- | -- | -- | -- |
| 5/13/2003 | 245 | 0 | 0.6 | 14 | 5.0 | ND (1) | ND (1) | 0.0000 | 0.00 | 0.005 | 1.54 | 0.00 | 0.00 | 0.00 | 0.00 |
| 6/30/2003 | 240 | 100 | 29.8 | 48 | -- | -- | -- | 0.3043 | 350.56 | -- | -- | -- | -- | -- | -- |
| 7/22/2003 | 222 | -- | 0 | 12 | ND (1) | ND (1) | ND (1) | -- | -- | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 8/26/2003 | 232 | 10 | 35.6 | 35 | 29.0 | 3.6 | ND (5) | 0.0588 | 49.42 | 0.025 | 21.17 | 0.003 | 2.63 | 0.00 | 0.00 |
| 9/23/2003 | 210 | 0 | 0 | 28 | ND (5) | ND (5) | ND (5) | 0.0000 | 0.00 | 0.000 | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 |
| 10/21/2003 | 225 | 0 | 0 | 28 | ND (5) | ND (5) | ND (5) | 0.0000 | 0.00 | 0.000 | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 |
| 11/24/2003 | 205 | 0 | 0 | 34 | -- | -- | -- | 0.0000 | 0.00 | -- | -- | -- | -- | -- | -- |
| **2003 Totals:** | | | | | | | | | **431.38** | | **26.42** | | **5.41** | | **0.00** |
| 1/6/2004 | 200 | 0 | 0 | 43 | -- | -- | -- | 0.0000 | 0.00 | -- | -- | -- | -- | -- | -- |
| 2/9/2004 | 235 | 0 | 0 | 34 | ND (5) | ND (5) | 10 | 0.0000 | 0.00 | 0.000 | 0.00 | 0.000 | 0.00 | 0.009 | 7.18 |
| 3/30/2004 | 160 | 5 | 24 | 50 | 77 | 1J | 2J | 0.0203 | 24.34 | 0.046 | 55.38 | 0.001 | 0.72 | 0.001 | 1.44 |
| 4/29/2004 | 255 | 0 | 0 | 30 | 10 | ND (5) | ND (5) | 0.0000 | 0.00 | 0.010 | 6.88 | 0.001 | 0.69 | 0.002 | 1.38 |
| 5/24/2004 | 198 | 0 | 0 | 25 | ND (1) | ND (1) | ND (1) | 0.0000 | 0.00 | 0.000 | 0.00 | 0.000 | 0.00 | 0.000 | 0.00 |
| 6/22/2004 | 210 | 0 | 0 | 29 | ND (1) | ND (1) | ND (1) | 0.0000 | 0.00 | 0.000 | 0.00 | 0.000 | 0.00 | 0.000 | 0.00 |
| 7/28/2004 | 181 | 0 | 3.1 | 36 | ND (5) | ND (5) | ND (5) | 0.0000 | 0.00 | 0.000 | 0.00 | 0.000 | 0.00 | 0.000 | 0.00 |
| 8/12/2004 | 187 | 0 | 0.1 | 15 | -- | -- | -- | 0.0000 | 0.00 | -- | -- | -- | -- | -- | -- |
| 9/29/2004 | 205 | -- | 0 | 48 | ND (1) | ND (1) | ND (1) | -- | -- | 0.000 | 0.00 | 0.000 | 0.00 | 0.000 | 0.00 |
| 10/20/2004 | 230 | 0 | 0 | 21 | ND (1) | ND (1) | ND (1) | 0.0000 | 0.00 | 0.000 | 0.00 | 0.000 | 0.00 | 0.000 | 0.00 |
| 11/17/2004 | 173 | 0 | 0 | 28 | ND (1) | ND (1) | ND (1) | 0.0000 | 0.00 | 0.000 | 0.00 | 0.000 | 0.00 | 0.000 | 0.00 |
| 12/22/2004 | 131 | 0 | 0 | 35 | ND (1) | ND (1) | ND (1) | 0.0000 | 0.00 | 0.000 | 0.00 | 0.000 | 0.00 | 0.000 | 0.00 |
| **2004 Totals:** | | | | | | | | | **24.34** | | **62.26** | | **1.41** | | **10.00** |

Notes: -- = Measurement not recorded [1] Calculated flows based on the average of flows measured on 3-29-05 and 4-28-05

**Discharge Rate (Field Mon., lb/hr)** = [(flow(cfm)*influent conc.(ppmv)*MW*12.187)/(273.15+C)]*1 cu. m./35.31 cu. ft*1g/1000 mg*1 lb/453.6 g*60 min/1 hr

**Discharge (Field Mon., lb)** = Discharge Rate (lb/hr) * # of days*24hours/day*60 minutes/hr

**Discharge Rate (Lab Res., lb/hr)** = flow (cfm)*effluent conc. (mg/cu. m.)*1g/1000mg*1lb/453.6g*1cu. m./35.31cu. ft*60min/1 hr

**Discharge (Lab Res., lb)** = Discharge Rate (lb/hr) * # of days*24hours/day

Where: **C = degrees centigrade, assumed to be 25**
J = Estimated Value
hr = hours

**Molecular weight (MW) of PCE=165.85; TCE=131.4; cis-1,2-DCE=96.94**
cfm = cubic feet per minute
mg/cu. m = milligrams per cubic meter
ppmv = parts per million (vol./vol.)
lb = pounds

| | Permit Limit lb/hr | |
|---|---|---|
| | 0.031 | |
| TCE | 0.014 | [illegible] |
| cis-1,2-DCE | 0.63 | 5,510 |

**TABLE 4**
**AIR DISCHARGE MONITORING**
**NATIONAL HEATSET PRINTING**
**1 ADAMS BLVD., FARMINGDALE, NY**

| | | Field Monitoring | | | Laboratory Results | | | Discharge based on Field Monitoring | | Discharge based on Laboratory Results | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date | System Effluent Flow Rate (cfm) | PCE System Effluent Concentration (ppmv) | System Effluent VOC Concentration (ppmv) | Elapsed Time (day) | PCE (mg/cu m.) | TCE (mg/cu m.) | cis-1,2-DCE (mg/cu m.) | PCE Discharge Since Last Visit (lb/hr) | PCE Discharge Since Last Visit (lb) | PCE Discharge Since Last Visit: lb/hr | PCE Discharge Since Last Visit (lb) | TCE Discharge Since Last Visit (lb/hr) | TCE Discharge Since Last Visit (lb) | cis-1,2-DCE Discharge Since Last Visit (lb/hr) | cis-1,2-DCE Discharge Since Last Visit (lb) |
| 1/20/2005 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 2/23/2005 | 245 | 0 | 0 | 34 | -- | -- | -- | 0.0000 | 0.00 | -- | -- | -- | -- | -- | -- |
| 3/29/2005 | 234 (1) | 0 | 0 | 34 | ND (1) | ND (1) | 2 | 0.0000 | 0.00 | 0.000 | 0.00 | 0.000 | 0.00 | 0.002 | 1.43 |
| 4/28/2005 | 222 | 0 | 0 | 30 | 0.5 | ND (1) | 1 | 0.0000 | 0.00 | 0.0004 | 0.30 | 0.000 | 0.00 | 0.001 | 0.60 |
| 5/31/2005 | 223 | 0 | 0 | 33 | 5 | 2 | 1 | 0.0000 | 0.00 | 0.0042 | 3.31 | 0.0017 | 1.32 | 0.001 | 0.66 |
| 6/24/2005 | 242 | 10.1 | 15 | 24 | 64 | 2 | 0.8J | 0.0620 | 35.70 | 0.0580 | 33.42 | 0.0018 | 1.04 | 0.001 | 0.42 |
| 8/4/2005 | 381 | 12 | 7.5 | 41 | 57 | 1J | 0.7J | 0.1159 | 114.09 | 0.0814 | 80.05 | 0.0014 | 1.40 | 0.001 | 0.98 |
| *Spent Carbon Replaced 8/10/05* | | | | | | | | | | | | | | | |
| 9/13/2005 | 248 | 0 | 0 | 40 | ND (1) | ND (1) | ND (1) | 0.0000 | 0.00 | 0.0000 | 0.00 | 0.0000 | 0.00 | 0.000 | 0.00 |
| 10/10/2005 | 211 | 0 | 0 | 27 | ND (1) | ND (1) | ND (1) | 0.0000 | 0.00 | 0.0000 | 0.00 | 0.0000 | 0.00 | 0.000 | 0.00 |
| 11/11/2005 | 239 | 0 | 0 | 32 | ND (1) | ND (1) | ND (1) | 0.0000 | 0.00 | 0.0000 | 0.00 | 0.0000 | 0.00 | 0.000 | 0.00 |
| 12/8/2005 | 212 | 0 | 0.1 | 27 | ND (1) | ND (1) | ND (1) | 0.0000 | 0.00 | 0.0000 | 0.00 | 0.0000 | 0.00 | 0.000 | 0.00 |
| **2005 Totals:** | | | | | | | | | **149.79** | | **117.08** | | **3.77** | | **4.09** |
| 1/6/2006 | 265 | 0 | 5.8 | 29 | ND (1) | ND (1) | ND (1) | 0.0000 | 0.00 | 0.0000 | 0.00 | 0.0000 | 0.00 | 0.000 | 0.00 |
| *Spent Carbon Replaced 1/25/06* | | | | | | | | | | | | | | | |
| 2/6/2006 | 322 | 0 | 0 | 30 | 1 | ND (1) | ND (1) | 0.0000 | 0.00 | 0.0012 | 0.87 | 0.0000 | 0.00 | 0.000 | 0.00 |
| 3/14/2006 | 232 | 0 | 0 | 36 | ND (1) | ND (1) | ND (1) | 0.0000 | 0.00 | 0.0000 | 0.00 | 0.0000 | 0.00 | 0.000 | 0.00 |
| 4/12/2006 | 271 | 0 | 0 | 29 | 0.6J | ND (1) | ND (1) | 0.0000 | 0.00 | 0.0006 | 0.42 | 0.0000 | 0.00 | 0.000 | 0.00 |
| 5/4/2006 | 214 | 0 | 0 | 22 | ND (1) | ND (1) | ND (1) | 0.0000 | 0.00 | 0.0000 | 0.00 | 0.0000 | 0.00 | 0.000 | 0.00 |
| 6/12/2006 | 253 | 0 | 0 | 39 | ND (1) | ND (1) | ND (1) | 0.0000 | 0.00 | 0.0000 | 0.00 | 0.0000 | 0.00 | 0.000 | 0.00 |
| 7/12/2006 | 196 | 0 | 0 | 30 | ND (1) | ND (1) | 0.6 J | 0.0000 | 0.00 | 0.0000 | 0.00 | 0.0000 | 0.00 | 0.001 | 0.38 |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| **2006 Totals:** | | | | | | | | | **0.00** | | **1.29** | | **0.00** | | **0.38** |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |

Notes: -- = Measurement not recorded (1) Calculated flows based on the average of flows measured on 3-29-05 and 4-28-05

**Discharge Rate (Field Mon., lb/hr)** = [(flow(cfm)*influent conc.(ppmv)*MW*12.187)/(273.15+C)]*1 cu. m./35.31 cu. ft*1g/1000 mg*1 lb/453.6 g*60 min/1 hr

**Discharge (Field Mon., lb)** = Discharge Rate (lb/hr) * # of days*24hours/day*60 minutes/hr

**Discharge Rate (Lab Res., lb/hr)** = flow (cfm)*effluent conc. (mg/cu. m.)*1g/1000mg*1lb/453.6g*1cu. m./35.31cu. ft*60min/1 hr

**Discharge (Lab Res., lb)** = Discharge Rate (lb/hr) * # of days*24hours/day

Where: **C = degrees centigrade, assumed to be 25** **Molecular weight (MW) of PCE=165.85; TCE=131.4; cis-1,2-DCE=96.94**

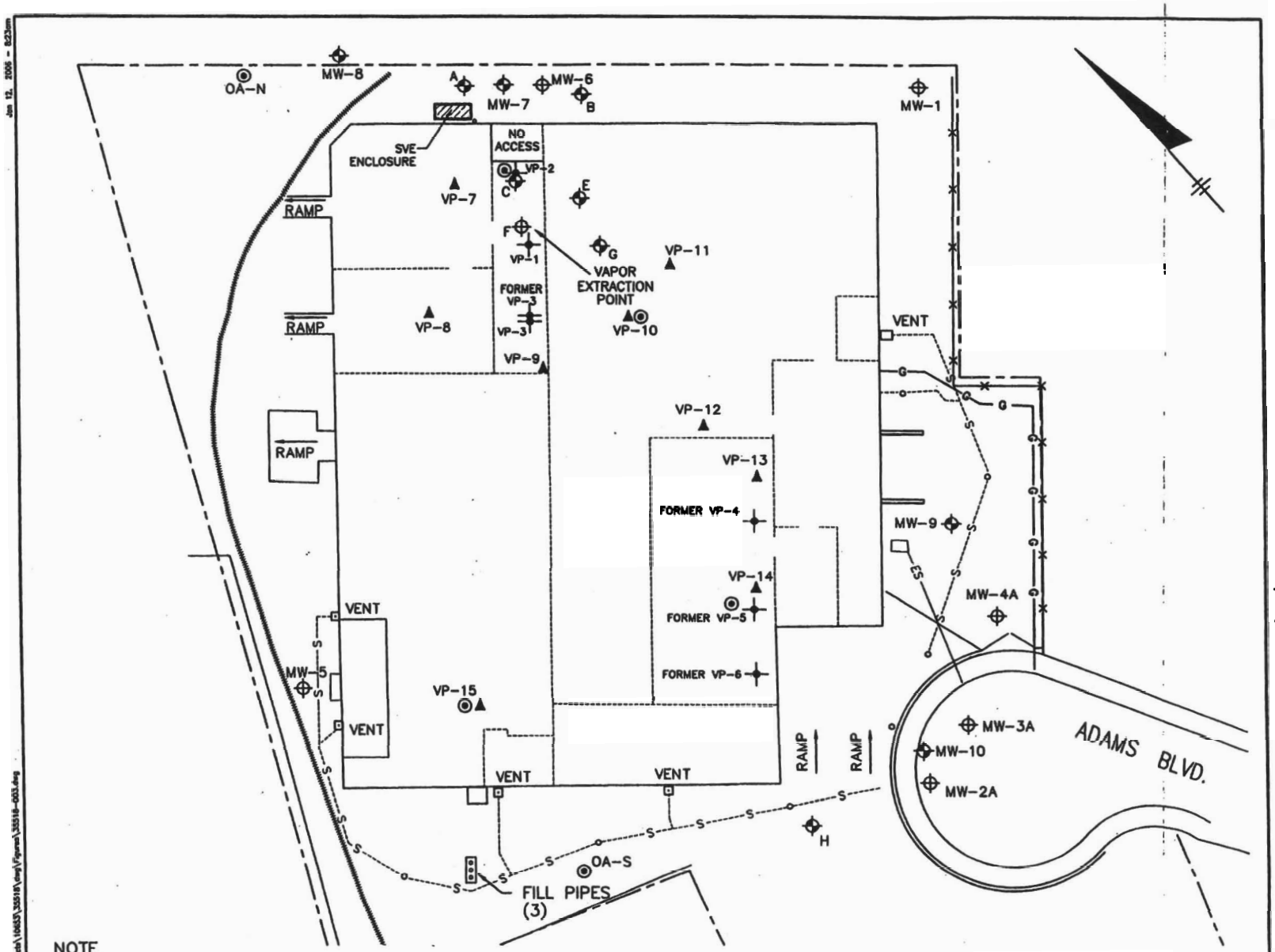
J = Estimated Value cfm = cubic feet per minute ppmv = parts per million (vol./vol.)

hr = hours mg/cu. m = milligrams per cubic meter lb = pounds

| **Permit Limit** | | |
|---|---|---|
| | lb/hr | lb/yr |
| PCE | 0.031 | 270 |
| TCE | 0.014 | 120 |
| cis-1,2-DCE | 0.63 | 5,510 |

# FIGURES

# FIGURE 1




NOTE
FIGURE DEVELOPED BY SHAW ENVIRONMENTAL, INC.
REVISED BY OBG (4/28/05 AND 11/3/05).

## LEGEND

- TRAIN TRACK
- AIR SAMPLING POINT (LOCATIONS APPROXIMATE AS SHOWN)
- SAMPLING/ VAPOR MONITORING POINT
- VAPOR MONITORING POINT
- DEEP MONITORING WELL (>30')
- SHALLOW MONITORING WELL (<30')
- MANHOLE OR ACCESS POINT
- FENCE LINE
- ELECTRIC LINE
- GAS LINE
- SANITARY SEWER
- PROPERTY LINE
- INTERIOR BUILDING WALL (DIVIDES WAREHOUSE)

NATIONAL HEATSET PRINTING
FARMINGDALE, NEW YORK

## SUBSLAB INVESTIGATION LOCATIONS

1"=50' 50 0 50

FILE NO. 10653.35518.003
NOVEMBER 2005

O'BRIEN & GERE ENGINEERS INC.

# APPENDIX A
# SITE VISIT DOCUMENTATION

# National Heatset Printing

**1 Adams Boulevard, Farmingdale, New York**

**O'Brien & Gere Eng. - Job # 35518.005**

Personnel: Dan Simpson  Time: 1000
Weather: Overcast 70°  Date: 7/12/2006

**System Status:**

Arrival: 1000
Departure: 1300
Run Timer Reading: 735481
Electric Meter Reading: 4778

**System Data:**

Extraction Well F Gate Valve: 100 % Open
Dilution Valve: 50 % Open

| **Pre-Bleed Air (Extraction Well):** | | **Post-Bleed Air (SVE Influent):** | |
|---|---|---|---|
| Flow: | 163 CFM | Flow: | 191 CFM |
| Vacuum: | 54 "H2O | Vacuum: | -- "H2O |
| PID Reading: | 8.1 PPM | PID Readin | 8.3 PPM |
| Draeger Tube: | 2 PPM | Draeger Tul | 8 PPM |
| Temperature: | 116 °F | Temperatur | 146 °F |

**Carbon Monitoring:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Mid: | 8.8 | PPM | 210 | CFM | 145 | Temp. (°F) | 10.0 PPM (Drager) |
| Effluent: | 0.0 | PPM | 196 | CFM | 134 | Temp. (°F) | 0.0 PPM (Drager) |

Carbon effluent sample collected & shipped ! Yes

Knockout Tank Drained? No
# Gallons: N/A
Purge water drums on-site 1

**Monitoring Well Gauging / Vapor Point Monitoring:**

| Well/V.P. ID: | MW-C | MW-E | MW-G | VP-1 | VP-2 | VP-3 | VP-7 | VP-8 | VP-9 | VP-10 | VP-11 | VP-12 | VP-13 | VP-14 | VP-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DTW (ft): | 14.11 | 14.28 | 14.11 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Vac. (" H2O): | -- | -- | -- | 4.6 | 0.5 | 0.55 | 0.5 | 0.25 | 0.3 | N/A | 0.3 | 0.14 | 0.05 | 0.04 | N/A |
| PID (PPM): | -- | -- | -- | -- | -- | -- | 0.0 | 0.4 | 0.0 | N/A | 0.0 | 0.0 | 0.0 | 0.0 | N/A |

**Comments:**

* VP-10 covered by cardboard in Eagle Box Co.

# APPENDIX B
# LABORATORY REPORT OF ANALYSES

MITKEM CORPORATION

*"Environmental Testing For The New Millennium"*

August 21, 2006

O'Brien & Gere
5000 Brittonfield Parkway
P. O. Box 4873
Syracuse, NY 13221-4873
Attn: Mr. Marc Dent

RE: Client Project: National Heatset, 07/12/06
Lab Project #: E1004

Dear Mr. Dent:

Enclosed please find the data report of the required analysis for the sample associated with the above referenced project. If you have any questions regarding this report, please call me.

We appreciate your business.

Sincerely,

Agnes R. Ng
CLP Project Manager

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499 • www.mitkem.com

MITKEM CORPORATION

# Report of Laboratory Analyses for O'Brien & Gere

Client Project: National Heatset, 07/12/06

Mitkem Work Order ID: E1004

August 21, 2006

Prepared For:

O'Brien & Gere
5000 Brittonfield Parkway
P. O. Box 4873
Syracuse, NY 13221-4873
Attn: Mr. Marc Dent

Prepared By:

Mitkem Corporation
175 Metro Center Boulevard
Warwick, RI 02886
(401) 732-3400

MITKEM CORPORATION

**Client: O'Brien & Gere**

**Client Project: National Heatset, 07/12/06**

**Lab Project: E1004**

**Date samples received: 07/14/06**

## Project Narrative

This data report includes the analysis results for one (1) air sample in a Tedlar bag that was received from O'Brien & Gere on July 14, 2006. Analyses were performed per specification in the Chain of Custody form. For reference, a copy of the Mitkem Work Order form is included for cross-referencing the client sample ID and laboratory sample ID.

All of the analyses were performed according to method specifications, as modified by Mitkem. No unusual occurrences were noted during sample analysis.

All pages in this report have been numbered consecutively, starting with the title page and ending with a page saying only "Last Page of Data Report".

This data report has been reviewed and is authorized for release as evidenced by the signature below.

Agnes Ng
CLP Project Manager

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SVE-EFF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1004

Matrix: (soil/water) AIR Lab Sample ID: E1004-01A

Sample wt/vol: 25 (g/mL) ML Lab File ID: V5G9039

Level: (low/med) LOW Date Received: 07/14/06

% Moisture: not dec. _____ Date Analyzed: 07/25/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) MG/M3 | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1 | U |
| 74-87-3 | Chloromethane | 1 | U |
| 75-01-4 | Vinyl Chloride | 1 | U |
| 74-83-9 | Bromomethane | 1 | U |
| 75-00-3 | Chloroethane | 1 | U |
| 75-69-4 | Trichlorofluoromethane | 1 | U |
| 75-35-4 | 1,1-Dichloroethene | 1 | U |
| 67-64-1 | Acetone | 1 | U |
| 74-88-4 | Iodomethane | 1 | U |
| 75-15-0 | Carbon Disulfide | 1 | U |
| 75-09-2 | Methylene Chloride | 1 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | U |
| 1634-04-4 | Methyl tert-butyl ether | 1 | U |
| 75-34-3 | 1,1-Dichloroethane | 1 | U |
| 108-05-4 | Vinyl acetate | 1 | U |
| 78-93-3 | 2-Butanone | 1 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 0.6 | J |
| 590-20-7 | 2,2-Dichloropropane | 1 | U |
| 74-97-5 | Bromochloromethane | 1 | U |
| 67-66-3 | Chloroform | 1 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | U |
| 563-58-6 | 1,1-Dichloropropene | 1 | U |
| 56-23-5 | Carbon Tetrachloride | 1 | U |
| 107-06-2 | 1,2-Dichloroethane | 1 | U |
| 71-43-2 | Benzene | 1 | U |
| 79-01-6 | Trichloroethene | 1 | U |
| 78-87-5 | 1,2-Dichloropropane | 1 | U |
| 74-95-3 | Dibromomethane | 1 | U |
| 75-27-4 | Bromodichloromethane | 1 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | U |
| 108-88-3 | Toluene | 1 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | U |

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SVE-EFF

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1004

Matrix: (soil/water) AIR Lab Sample ID: E1004-01A

Sample wt/vol: 25 (g/mL) ML Lab File ID: V5G9039

Level: (low/med) LOW Date Received: 07/14/06

% Moisture: not dec. _____ Date Analyzed: 07/25/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) MG/M3 | Q |
|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | 1 | U |
| 127-18-4 | Tetrachloroethene | 1 | U |
| 591-78-6 | 2-Hexanone | 1 | U |
| 124-48-1 | Dibromochloromethane | 1 | U |
| 106-93-4 | 1,2-Dibromoethane | 1 | U |
| 108-90-7 | Chlorobenzene | 1 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1 | U |
| 100-41-4 | Ethylbenzene | 1 | U |
| ---------- | m,p-Xylene | 1 | U |
| 95-47-6 | o-Xylene | 1 | U |
| 1330-20-7 | Xylene (Total) | 1 | U |
| 100-42-5 | Styrene | 1 | U |
| 75-25-2 | Bromoform | 1 | U |
| 98-82-8 | Isopropylbenzene | 1 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | U |
| 108-86-1 | Bromobenzene | 1 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 1 | U |
| 103-65-1 | n-Propylbenzene | 1 | U |
| 95-49-8 | 2-Chlorotoluene | 1 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1 | U |
| 106-43-4 | 4-Chlorotoluene | 1 | U |
| 98-06-6 | tert-Butylbenzene | 1 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1 | U |
| 135-98-8 | sec-Butylbenzene | 1 | U |
| 99-87-6 | 4-Isopropyltoluene | 1 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | U |
| 104-51-8 | n-Butylbenzene | 1 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | U |
| 87-68-3 | Hexachlorobutadiene | 1 | U |
| 91-20-3 | Naphthalene | 1 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | U |

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK50

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1004

Matrix: (soil/water) AIR Lab Sample ID: MB-24945

Sample wt/vol: 25 (g/mL) ML Lab File ID: V5G9032

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 07/25/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) **Soil Aliquot Volume:** _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) MG/M3 | Q |
|---|---|---|---|
| 75-71-8 | Dichlorodifluoromethane | 1 | U |
| 74-87-3 | Chloromethane | 1 | U |
| 75-01-4 | Vinyl Chloride | 1 | U |
| 74-83-9 | Bromomethane | 1 | U |
| 75-00-3 | Chloroethane | 1 | U |
| 75-69-4 | Trichlorofluoromethane | 1 | U |
| 75-35-4 | 1,1-Dichloroethene | 1 | U |
| 67-64-1 | Acetone | 1 | U |
| 74-88-4 | Iodomethane | 1 | U |
| 75-15-0 | Carbon Disulfide | 1 | U |
| 75-09-2 | Methylene Chloride | 1 | U |
| 156-60-5 | trans-1,2-Dichloroethene | 1 | U |
| 1634-04-4 | Methyl tert-butyl ether | 1 | U |
| 75-34-3 | 1,1-Dichloroethane | 1 | U |
| 108-05-4 | Vinyl acetate | 1 | U |
| 78-93-3 | 2-Butanone | 1 | U |
| 156-59-2 | cis-1,2-Dichloroethene | 1 | U |
| 590-20-7 | 2,2-Dichloropropane | 1 | U |
| 74-97-5 | Bromochloromethane | 1 | U |
| 67-66-3 | Chloroform | 1 | U |
| 71-55-6 | 1,1,1-Trichloroethane | 1 | U |
| 563-58-6 | 1,1-Dichloropropene | 1 | U |
| 56-23-5 | Carbon Tetrachloride | 1 | U |
| 107-06-2 | 1,2-Dichloroethane | 1 | U |
| 71-43-2 | Benzene | 1 | U |
| 79-01-6 | Trichloroethene | 1 | U |
| 78-87-5 | 1,2-Dichloropropane | 1 | U |
| 74-95-3 | Dibromomethane | 1 | U |
| 75-27-4 | Bromodichloromethane | 1 | U |
| 10061-01-5 | cis-1,3-Dichloropropene | 1 | U |
| 108-10-1 | 4-Methyl-2-pentanone | 1 | U |
| 108-88-3 | Toluene | 1 | U |
| 10061-02-6 | trans-1,3-Dichloropropene | 1 | U |
| 79-00-5 | 1,1,2-Trichloroethane | 1 | U |

# VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK5O

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1004

Matrix: (soil/water) AIR Lab Sample ID: MB-24945

Sample wt/vol: 25 (g/mL) ML Lab File ID: V5G9032

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 07/25/06

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) MG/M3 | Q |
|---|---|---|---|
| 142-28-9 | 1,3-Dichloropropane | 1 | U |
| 127-18-4 | Tetrachloroethene | 1 | U |
| 591-78-6 | 2-Hexanone | 1 | U |
| 124-48-1 | Dibromochloromethane | 1 | U |
| 106-93-4 | 1,2-Dibromoethane | 1 | U |
| 108-90-7 | Chlorobenzene | 1 | U |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | 1 | U |
| 100-41-4 | Ethylbenzene | 1 | U |
| ---------- | m,p-Xylene | 1 | U |
| 95-47-6 | o-Xylene | 1 | U |
| 1330-20-7 | Xylene (Total) | 1 | U |
| 100-42-5 | Styrene | 1 | U |
| 75-25-2 | Bromoform | 1 | U |
| 98-82-8 | Isopropylbenzene | 1 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1 | U |
| 108-86-1 | Bromobenzene | 1 | U |
| 96-18-4 | 1,2,3-Trichloropropane | 1 | U |
| 103-65-1 | n-Propylbenzene | 1 | U |
| 95-49-8 | 2-Chlorotoluene | 1 | U |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1 | U |
| 106-43-4 | 4-Chlorotoluene | 1 | U |
| 98-06-6 | tert-Butylbenzene | 1 | U |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1 | U |
| 135-98-8 | sec-Butylbenzene | 1 | U |
| 99-87-6 | 4-Isopropyltoluene | 1 | U |
| 541-73-1 | 1,3-Dichlorobenzene | 1 | U |
| 106-46-7 | 1,4-Dichlorobenzene | 1 | U |
| 104-51-8 | n-Butylbenzene | 1 | U |
| 95-50-1 | 1,2-Dichlorobenzene | 1 | U |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | 1 | U |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1 | U |
| 87-68-3 | Hexachlorobutadiene | 1 | U |
| 91-20-3 | Naphthalene | 1 | U |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1 | U |

4A

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK5O

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: ME1004

Lab File ID: V5G9032 Lab Sample ID: MB-24945

Date Analyzed: 07/25/06 Time Analyzed: 1148

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: V5

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|---|---|---|---|---|
| 01 | V5OLCS | LCS-24945 | V5G9033 | 1225 |
| 02 | SVE-EFF | E1004-01A | V5G9039 | 1529 |
| 03 | | | | |
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COMMENTS:

# Mitkem Corporation

*17/Jul/06 09:51*

# WorkOrder: E1004

**Client ID:** OBG
**Project:** National Heatset
**Location:**
**Comments:** Level 2 for air samples

**Case:**
**SDG:**
**PO:** HEATSET

**Report Level:** ASP-B
**EDD:** CLF
**HC Due:** 08/04/06
**Fax Due:** 07/28/06

| Sample ID | Client Sample ID | Collection Date | Date Recv'd | Matrix | Test Code | Lab Test Comments | Hold | MS | SEL | Storage |
|---|---|---|---|---|---|---|---|---|---|---|
| E1004-01A | SVE-EFF | 07/12/2006 11:30 | 07/14/2006 | Air | TO14 | | ☐ | ☐ | ☐ | VOA |

Client Rep: Agnes R Ng

MITKEM CORPORATION
175 Metro Center Boulevard
Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499
email: mitkem@mitkem.com

# CHAIN-OF-CUSTODY RECORD



| REPORT TO | | INVOICE TO | | |
|---|---|---|---|---|
| COMPANY O'Brien + Gere | PHONE | COMPANY | PHONE | LAB PROJECT #: E1004 |
| NAME Mark Dent | FAX | NAME Same | FAX | |
| ADDRESS 5000 Brittonfield Pkwy | | ADDRESS | | TURNAROUND TIME: STD |
| CITY/ST/ZIP E. Syracuse, NY | | CITY/ST/ZIP | | |

| CLIENT PROJECT NAME: | CLIENT PROJECT #: | CLIENT P.O.#: |
|---|---|---|
| National Heatset | | |

| SAMPLE IDENTIFICATION | DATE/TIME SAMPLED | COMPOSITE | GRAB | WATER | SOIL | OTHER | LAB ID | # OF CONTAINERS | REQUESTED ANALYSES: TO-14 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|
| SVE-Eff | 7/12/06 1130 | | X | | | Air | 01 | 1 | X | |
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| TSF# | RELINQUISHED BY | DATE/TIME | ACCEPTED BY | DATE/TIME | ADDITIONAL REMARKS: | COOLER TEMP: |
|---|---|---|---|---|---|---|
| | | / | Derrick DeCarl | 7/13/06 9:05 | | ambient |
| | | / | | / | | |
| | David Kyer | 7/13/06 1500 | FedEX | / | | |

WHITE: LABORATORY COPY YELLOW: REPORT COPY PINK: CLIENT'S COPY

# MITKEM CORPORATION

## Sample Condition Form



Received By: DKD | Reviewed By: KRP | Date: 7/14/06 | MITKEM Workorder #: E1C004

Client Project: National Headset | Client:

1) Cooler Sealed (Yes) / No

2) Custody Seal(s) Present / ~~Absent~~
~~Coolers / Bottles~~
Intact / Broken

3) Custody Seal Number(s)

4) Chain-of-Custody (Present) / Absent

5) Cooler Temperature ambient
Coolant Condition

6) Airbill(s) (Present) / Absent
Airbill Number(s) FedEx
855911538523

7) Sample Bottles (Intact) / Broken / Leaking

8) Date Received 7/14/06

9) Time Received 9:05

Preservative Name/Lot No:

| Lab Sample ID | | Preservation (pH) $HNO_3$ | $H_2SO_4$ | HCl | NaOH | VOA Matrix | Soil Headspace or Air Bubbles ≥ 1/4" |
|---|---|---|---|---|---|---|---|
| E1C004 | 01 | | | | | A | |

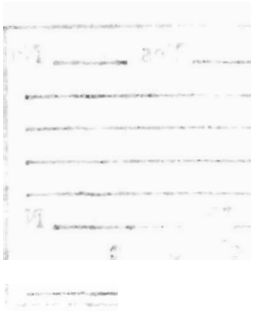
DKD 7/14/06

VOA Matrix Key:

| | |
|---|---|
| **US** = Unpreserved Soil | **A** = Air |
| **UA** = Unpreserved Aqu. | **H** = HCl |
| **M**= MeOH | **E** = Encore |
| **N** = $NaHSO_4$ | **F** = Freeze |

See Sample Condition Notification/Corrective Action Form yes / no

Rad OK yes/ no



# Last Page of Data Report