



**O'BRIEN & GERE**

September 15, 2005

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 2005**  
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 August 4, 2005 on behalf of O'Brien & Gere Engineers, Inc (OBG) in accordance with our approved Work Plan.

#### System Operation

The SVE system was assumed operational for 100% of the reporting period (June 24, 2005 through August 4, 2005). The system operational data is summarized in Table 1 and on the site visit data collection form provided in Appendix A. As previously reported in the April, May and June 2005 reports, the run time meter appears to be wired to the ventilation fan rather than the SVE blower. On July 15, 2005 an electrician from Envirotrac checked the meter. The meter was wired to the SVE blower, and appeared to operate intermittently. It was decided that the meter required replacement, and a new meter was installed on August 8, 2005

As recommended in the June 2005 report, OBG personnel coordinated with ServiceTech to replace the activated carbon of the SVE system. ServiceTech was onsite and replaced the spent activated carbon on August 10, 2005.

A flow of 216 cfm and a vacuum of 26 inches of water column were observed at the extraction well. The SVE blower operated at a flow of 353 cubic feet per minute (cfm) as measured at the SVE influent. Field personnel recorded a tetrachloroethene (PCE) concentration of 19 ppm (by Draeger tube) and a concentration of volatile organic compounds (VOCs) of 38.1 ppm (by PID) from the extraction well (pre-dilution). No water was observed in the knockout vessel during this reporting period.

VOC concentrations of 8.8 ppm (by PID) and a PCE concentration of 12 ppm (by Draeger Tube) were observed at the SVE influent port during the site visit. VOC concentrations of 10.5 ppm (by PID) and a

PCE concentration of 12 ppm (by Draeger Tube) were observed from the Vapor-phase Granular Activated Carbon (VGAC) mid sampling port, and a VOC concentration of 7.5 ppm (by PID) and a PCE concentration of 12 ppm (by Draeger Tube) were observed from the effluent sampling port. Refer to Table 1.

#### Monitoring Probes

A vacuum of 0.56, 0.62 and 0.1 inches of water column were observed during the site visit at vapor monitoring points VP-1, VP-2 and VP-3, respectively. 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 measured at the SVE influent sampling point. The SVE system removed approximately 37 pounds of PCE from the extraction well during this reporting period and has removed approximately 2,257 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. The laboratory analysis indicated a concentration of tetrachloroethene (PCE) of  $57 \text{ mg/m}^3$ , an estimated concentration of trichloroethene (TCE) of  $1 \text{ mg/m}^3$ , and an estimated concentration for cis-1,2-dichloroethene (DCE) of  $0.7 \text{ mg/m}^3$ . 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 an effluent flow rate of 381 cfm, a concentration of  $0.3 \text{ mg/m}^3$  of cis-1, 2-DCE would result in a discharge rate of 0.001 lb/hr; this rate is below the permit limit of 0.63 lb/hr for this compound. An estimated concentration of  $57 \text{ mg/m}^3$  of PCE would result in a discharge rate of 0.0814 lb/hr (at 381 cfm); this rate exceeds the permit limit of 0.031 lb/hr for this compound. An estimated concentration of  $1 \text{ mg/m}^3$  of TCE would result in a discharge rate of 0.0014 lb/hr (at 381 cfm); this rate is below the permit limit of 0.014 lb/hr for this compound. A total of 4.09 lb of cis-1, 2-DCE has been discharged during the year 2005 toward the permitted annual discharge limit of 5,510 lbs. A total of 117.08 lb of PCE has been discharged during the year 2005 toward the permitted annual discharge limit of 270 lb. A total of 3.77 lb of TCE has been discharged during the year 2005 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. It is recommended that the dilution valve be adjusted to 25% open and the valve at the extraction well MW-F be adjusted to 75% open.

Mr. Jeff Dyber, P.E.  
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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.

A handwritten signature in black ink, appearing to read "M. J. Dent".

Marc J. Dent P.E.  
Managing Engineer

cc. Trevor Staniec – O'Brien & Gere

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Attachments

## TABLES

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

| Date       | Flow (cfm) | PID  | PCE  | GAC | SVE | MFC | Effluent GAC | Influent SVE | SVE PILOT TEST STARTUP |      |     |       |       |       |      |       |       |       |       |       |       |      |
|------------|------------|------|------|-----|-----|-----|--------------|--------------|------------------------|------|-----|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|------|
|            |            |      |      |     |     |     |              |              | 5                      | 34.5 | 5   | 2,000 | 500   | 256   | 25   | 107.2 | 1,015 | 317   | 102.3 | 0     | 290   | 89.5 |
| 9/18/2002  | 304        | 294  | 100% | 100 | 100 | 50  | 34.5         | 5            | 2,000                  | 500  | 256 | 25    | 107.2 | 1,015 | 317  | 102.3 | 0     | 290   | 89.5  | 0     |       |      |
| 9/30/2002  | 642        | 343  | 99%  | 100 | 100 | 50  | 38           | 7            | 1,011                  | 400  | 258 | 27    | 75.3  | 50    | 50   | 50    | 0     | 280   | 80.3  | 0     |       |      |
| 10/14/2002 | 1508       | 882  | 98%  | 100 | 100 | 50  | 49           | 12           | 0                      | 0    | 120 | 28    | 106   | 0     | 209  | 92    | 0     | 280   | 80.3  | 0     |       |      |
| 11/19/2002 | 388        | 388  | 100% | 100 | 100 | 50  | 36.5         | 10           | 77                     | 200  | 253 | 28    | 14.3  | 10    | 15.5 | 10    | 0     | 340   | 53.9  | 0     |       |      |
| 12/16/2002 | 2153       | 294  | 98%  | 100 | 100 | 50  | 36.5         | 10           | 560                    | 200  | 253 | 28    | 92    | 48.4  | 302  | 60    | 3.4   | 340   | 53.9  | 0     |       |      |
| 1/21/2003  | 3016       | 882  | 98%  | 100 | 100 | 50  | 38           | 10           | 839                    | 400  | 262 | 27    | 102   | 72    | 220  | 0     | 220   | 0     | 0     | 0     |       |      |
| 2/10/2003  | 3496       | 490  | 98%  | 100 | 100 | 50  | 38           | 12           | 125                    | 100  | 266 | 25    | 123   | 15    | 268  | 90    | 26    | 258   | 83    | 3.2   |       |      |
| 3/18/2003  | 4360       | 882  | 98%  | 100 | 100 | 50  | 75           | 50           | 152                    | 50   | 132 | 16    | 118.5 | 48.2  | 25   | 302   | 66    | 287   | 86    | 0.6   |       |      |
| 4/29/2003  | 5359       | 1029 | 97%  | 75  | 50  | 50  | 78           | 50           | 127                    | 50   | 239 | 48    | 130   | 41.8  | 50   | 246   | 108   | 245   | 97    | 0.8   |       |      |
| 5/13/2003  | 5700       | 343  | 99%  | 75  | 50  | 50  | 115          | 32           | 82.4                   | 50   | 140 | 66    | 173   | 38.8  | 50   | 188   | 157   | 240   | 150   | 29.8  |       |      |
| 6/30/2003  | 6850       | 1178 | 98%  | 50  | 50  | 50  | 98.5         | 25           | 408                    | 400  | 151 | 68    | 186   | 221   | 215  | 260   | 76    | 222   | 81.9  | 0     |       |      |
| 7/10/2003  | 6851       | 245  | 0%   | 50  | 50  | 50  | 127          | 10           | 127                    | 10   | 186 | 65    | 168   | 65    | 5    | 107   | 0     | 106   | 0     | 0     |       |      |
| 7/22/2003  | 7144       | 294  | 100  | 50  | 50  | 50  | 79           | 13.5         | 137                    | 10   | 186 | 65    | 170   | 51.4  | 5    | 281   | 55.4  | 232   | 35.6  | 10    |       |      |
| 8/26/2003  | 7957       | 858  | 95   | 50  | 50  | 50  | 218          | 33           | 141                    | 15   | 194 | 64    | 180   | 55    | 30   | 254   | 124   | 210   | 110   | 0     |       |      |
| 9/23/2003  | 8274       | 686  | 46   | 50  | 50  | 50  | 166          | 45           | 20                     | 158  | 68  | 186   | 37.5  | 25    | 214  | 130   | 30.7  | 225   | 112   | 0     |       |      |
| 10/21/2003 | 8945       | 686  | 98   | 50  | 50  | 50  | 130          | 46           | 141                    | 125  | 178 | 72    | 138   | 281   | 200  | 225   | 52    | 205   | 51.4  | 0     |       |      |
| 11/24/2003 | 9749       | 833  | 97   | 50  | 50  | 50  | 98.5         | 74           | 118                    | 100  | 164 | 12    | 140   | 247   | 250  | 224   | 48.6  | 200   | 48.4  | 0     |       |      |
| 1/6/2004   | 9750       | 1054 | 0    | 50  | 50  | 50  | 121          | 44           | 23.1                   | 10   | 172 | 70    | 155.8 | 29.8  | 25   | 233   | 137   | 235   | 117   | 0     |       |      |
| 2/9/2004   | 10336      | 833  | 78   | 50  | 50  | 50  | 103          | >50          | 34                     | <10  | 198 | 70    | 160   | 22    | <10  | 240   | 128   | 160   | 115   | 24    |       |      |
| 3/30/2004  | 11289      | 1225 | 69   | 50  | 50  | 75  | 127          | 23.7         | 23.7                   | <10  | 198 | 70    | 160   | 22    | <10  | 240   | 128   | 160   | 115   | 24    |       |      |
| 4/8/2004   | 11441      | 221  | 69   | 50  | 50  | 75  | 127          | 23.7         | 23.7                   | <10  | 198 | 70    | 160   | 22    | <10  | 240   | 128   | 160   | 115   | 24    |       |      |
| 4/29/2004  | 11768      | 515  | 64   | 50  | 50  | 75  | 131          | >60          | 2.4                    | 0    | 76  | 170   | 2.2   | 0     | 209  | 128   | 0     | 255   | 116   | 0     |       |      |
| 5/24/2004  | 12264      | 613  | 81   | 50  | 50  | 75  | 144          | 75           | 43.8                   | 50   | 172 | 75    | 178   | 33.1  | <50  | 250   | 121   | 4.4   | 198   | 111   | 0     |      |
| 6/22/2004  | 12817      | 711  | 78   | 50  | 50  | 75  | 127          | 74           | 57                     | 10   | 140 | 76    | 180   | 52    | 30   | 181   | 123   | 25.8  | 210   | 118   | 0     |      |
| 7/28/2004  | 13630      | 882  | 92   | 50  | 50  | 75  | 142          | 76.5         | 53.2                   | 7    | 161 | 76.5  | 159   | 41.1  | 25   | 216   | 137   | 35.3  | 20    | 181   | 109   | 3.1  |
| 8/31/2004  | 13989      | 833  | 43   | 25  | 50  | 90  | 157          | 58           | 48                     | 0    | 104 | 74    | 137   | 202   | 200  | 180   | 98    | 2.2   | 187   | 91    | 0.1   |      |
| 9/29/2004  | 14256      | 711  | 38   | 50  | 50  | 75  | 139          | 60           | 50                     | 50   | 140 | 76    | 153   | 27.7  | 194  | 126   | 0     | 205   | 102.1 | 0     |       |      |
| 10/20/2004 | 14729      | 515  | 92   | 50  | 50  | 75  | 155          | 58           | 50                     | 50   | 120 | 76    | 160   | 19.1  | 10   | 202   | 122   | 0     | 230   | 101   | 0     |      |
| 11/17/2004 | 15229      | 686  | 73   | 75  | 50  | 180 | 80           | 80           | 17.9                   | <5   | 148 | 77    | 160   | 13.5  | <10  | 152   | 112   | 7.2   | 173   | 94    | 0     |      |
| 12/22/2004 | 15565      | 858  | 39   | 75  | 50  | 50  | 143          | 80           | 15.8                   | <5   | 125 | 85    | 160   | 18.3  | 10   | 127   | 116   | 16    | 131   | 93.4  | 0     |      |
| 1/20/2005  | 15933      | 711  | 52   | 25  | 100 | 100 | 87.5         | 36           | 174                    | 50   | 188 | 58    | 110   | 93    | 50   | 265   | 56    | 0     | 245   | 38.5  | 0     |      |
| 2/23/2005  | 15933      | 833  | 0    | 75  | 50  | 50  | 87.5         | 36           | 174                    | 50   | 188 | 58    | 110   | 93    | 50   | 265   | 56    | 0     | 245   | 38.5  | 0     |      |
| 3/29/2005  | 16217      | 833  | 34   | 75  | 50  | 50  | 87.5         | 40           | 174                    | 50   | 188 | 58    | 110   | 93    | 50   | 265   | 56    | 0     | 245   | 38.5  | 0     |      |
| 4/28/2005  | 720        | 720  | 100  | 75  | 50  | 50  | 86           | 39           | 39                     | 39   | 227 | 244   | 109   | 8     | 4    | 222   | 84.2  | 0     | 223   | 112.3 | 0     |      |
| 5/31/2005  | 792        | 792  | 100  | 50  | 50  | 50  | 98           | 39           | 7.4                    | 9.5  | 208 | 10    | 227   | 118.8 | 17.8 | 10    | 223   | 112.3 | 0     | 223   | 112.3 | 0    |
| 6/24/2005  | 576        | 576  | 100  | 50  | 50  | 50  | 125          | 25           | 28.5                   | 16   | 268 | 7     | 283   | 133   | 13.9 | 16    | 242   | 116   | 10.1  | 15    | 15    |      |
| 8/4/2005   | 17972      | 984  | 100  | 75  | 65  | 65  | 216          | 26           | 38.1                   | 19   | 353 | 12    | 423   | 185.7 | 10.5 | 12    | 381   | 120.7 | 7.5   | 12    | 12    |      |

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 indicative 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 Draeger 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  
 MFC 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 previously 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) | 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 <sup>(1)</sup>               | 500 <sup>(1)</sup>                | 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                                  | --                                | --                          |
| 3/29/2005  | 6.4                               | 4.5                               | 70.3                | 148                             | 34                                  | 9                                 | 2,178                       |
| 4/28/2005  | 8.9                               | 5                                 | 56.2                | 86                              | 30                                  | 11                                | 2,189                       |
| 5/31/2005  | 10.4                              | 10                                | 96.2                | 98                              | 33                                  | 17                                | 2,206                       |
| 6/24/2005  | 8.3                               | 7                                 | 84.3                | 125                             | 24                                  | 14                                | 2,220                       |
| 8/4/2005   | 8.8                               | 12                                | 136.4               | 216                             | 41                                  | 37                                | 2,257                       |

**Notes:**

<sup>(1)</sup> = 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.

<sup>(2)</sup> SVE Influent (post-dilution) monitoring point data used for calculation of PCE Removal for dates including and subsequent to March 29, 2005

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

<sup>(3)</sup> Run time meter reading not indicative 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, assumed to be 25  
lb = pounds  
cfm = cubic feet per minute  
ppmv = parts per million (volume/volume basis)  
-- = information not available

**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 Influent 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              |

**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 = Concentration 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

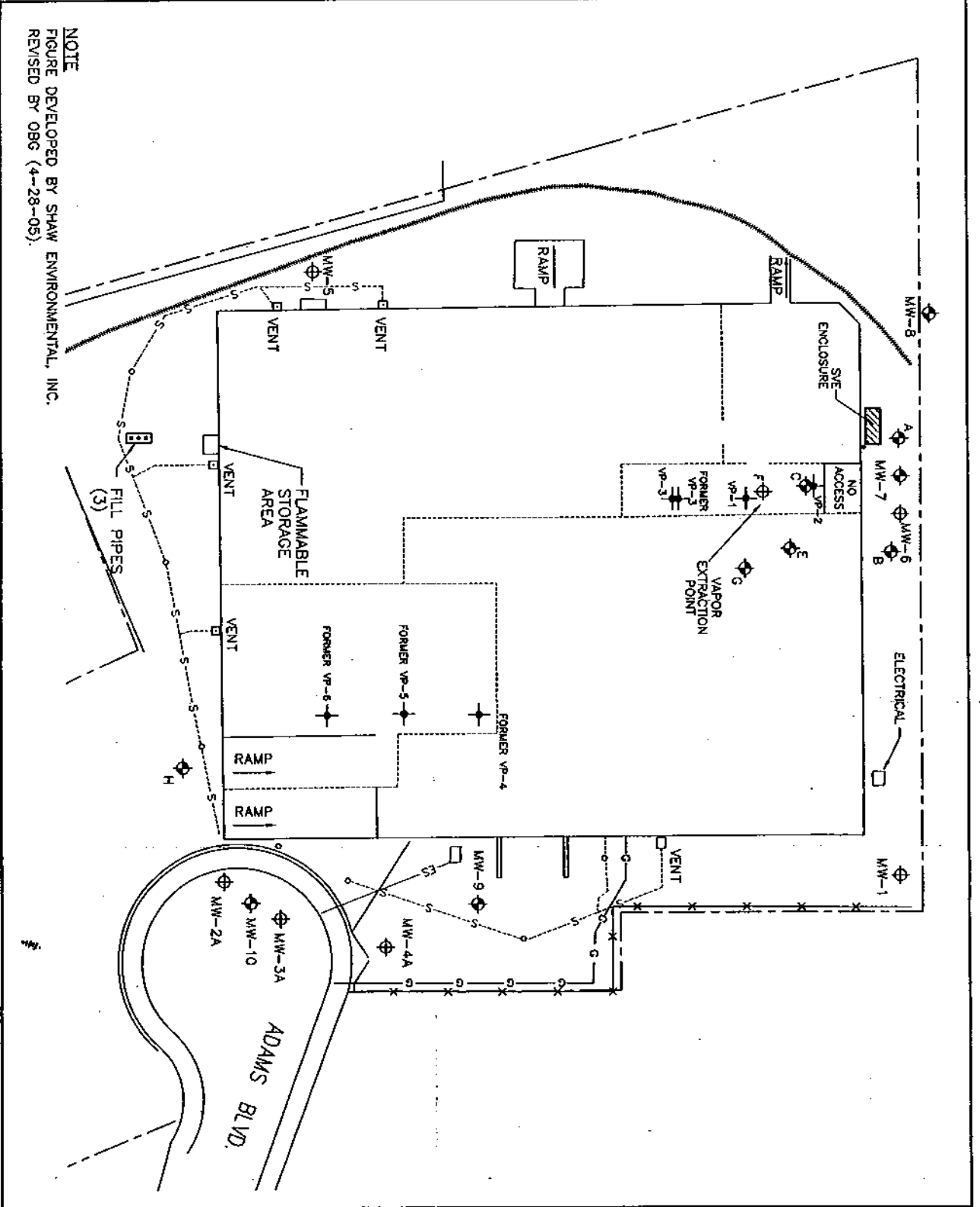
| SVE PILOT TEST STARTUP |                    |                  |                        |            |                       |                       |            |                        |            |                       |                       |            |                        |       |
|------------------------|--------------------|------------------|------------------------|------------|-----------------------|-----------------------|------------|------------------------|------------|-----------------------|-----------------------|------------|------------------------|-------|
| Date                   | Field Mon. (lb/hr) | Lab Res. (lb/hr) | Discharge Rate (lb/hr) | Flow (cfm) | Influent Conc. (ppmv) | Effluent Conc. (ppmv) | Flow (cfm) | Discharge Rate (lb/hr) | Flow (cfm) | Influent Conc. (ppmv) | Effluent Conc. (ppmv) | Flow (cfm) | Discharge Rate (lb/hr) |       |
| 8/18/2002              |                    |                  |                        |            |                       |                       |            |                        |            |                       |                       |            |                        |       |
| 8/30/2002              | 260                |                  | 0                      | 12         |                       |                       |            |                        |            |                       |                       |            |                        |       |
| 10/14/2002             |                    |                  |                        | 14         |                       |                       |            |                        |            |                       |                       |            |                        |       |
| 11/18/2002             | 290                |                  | 0                      | 36         |                       |                       |            |                        |            |                       |                       |            |                        |       |
| 12/18/2002             | 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                 |                  |                        | 28         |                       |                       |            | 0.0000                 |            |                       |                       |            |                        |       |
| 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                  | 0.008      | 2.78                   |       |
| 3/5/2003               | 305                |                  | 0                      | 23         |                       |                       |            |                        |            |                       |                       |            |                        |       |
| 3/18/2003              | 282                |                  | 0                      | 13         |                       |                       |            | 0.0000                 | 0.00       |                       |                       |            |                        |       |
| 4/28/2003              | 287                |                  | 0                      | 42         |                       |                       |            | 0.0000                 | 0.00       |                       |                       |            |                        |       |
| 5/13/2003              | 245                |                  | 0                      | 0.8        | 14                    | 5.0                   | ND (1)     | 0.0000                 | 0.00       | 0.005                 | 1.54                  | 0.00       | 0.00                   |       |
| 6/30/2003              | 240                | 100              | 28.8                   | 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                   |       |
| 8/26/2003              | 232                | 10               | 35.6                   | 35         | 29.0                  | 3.6                   | ND (5)     | 0.0588                 | 49.42      | 0.025                 | 21.17                 | 0.003      | 2.83                   |       |
| 9/23/2003              | 210                |                  | 0                      | 28         | ND (5)                | ND (5)                | ND (5)     | 0.0000                 | 0.00       | 0.000                 | 0.00                  | 0.00       | 0.00                   |       |
| 10/21/2003             | 225                |                  | 0                      | 28         | ND (5)                | ND (5)                | ND (5)     | 0.0000                 | 0.00       | 0.000                 | 0.00                  | 0.00       | 0.00                   |       |
| 11/24/2003             | 205                |                  | 0                      | 34         |                       |                       |            | 0.0000                 | 0.00       |                       |                       |            |                        |       |
| 2003 Totals:           |                    |                  |                        |            |                       |                       |            | 431.38                 |            |                       | 26.424                |            | 5.412                  | 0.000 |
| 1/8/2004               | 200                |                  | 0                      | 43         |                       |                       |            | 0.0000                 | 0.00       |                       |                       |            |                        |       |
| 2/9/2004               | 235                |                  | 0                      | 34         | ND (5)                | ND (5)                | 10         | 0.0000                 | 0.00       | 0.000                 | 0.00                  | 0.000      | 0.009                  | 7.18  |
| 3/30/2004              | 160                |                  | 5                      | 24         | 50                    | 77                    | 1J         | 0.0203                 | 24.34      | 0.046                 | 55.38                 | 0.001      | 0.72                   | 0.001 |
| 4/29/2004              | 255                |                  | 0                      | 30         | 10                    | ND (5)                | ND (5)     | 0.0000                 | 0.00       | 0.010                 | 6.88                  | 0.001      | 0.69                   | 0.002 |
| 5/24/2004              | 188                |                  | 0                      | 25         | ND (1)                | ND (1)                | ND (1)     | 0.0000                 | 0.00       | 0.000                 | 0.00                  | 0.000      | 0.00                   | 0.000 |
| 6/22/2004              | 210                |                  | 0                      | 29         | ND (1)                | ND (1)                | ND (1)     | 0.0000                 | 0.00       | 0.000                 | 0.00                  | 0.000      | 0.00                   | 0.000 |
| 7/28/2004              | 181                |                  | 0                      | 3.1        | 36                    | ND (5)                | ND (5)     | 0.0000                 | 0.00       | 0.000                 | 0.00                  | 0.000      | 0.00                   | 0.000 |
| 8/12/2004              | 187                |                  | 0                      | 0.1        | 15                    |                       |            | 0.0000                 | 0.00       |                       |                       |            |                        |       |
| 8/26/2004              | 205                |                  | 0                      | 48         | ND (1)                | ND (1)                | ND (1)     |                        | 0.000      | 0.000                 | 0.00                  | 0.000      | 0.000                  | 0.000 |
| 10/20/2004             | 230                |                  | 0                      | 21         | ND (1)                | ND (1)                | ND (1)     | 0.0000                 | 0.00       | 0.000                 | 0.00                  | 0.000      | 0.000                  | 0.000 |
| 11/17/2004             | 173                |                  | 0                      | 28         | ND (1)                | ND (1)                | ND (1)     | 0.0000                 | 0.00       | 0.000                 | 0.00                  | 0.000      | 0.000                  | 0.000 |
| 12/22/2004             | 131                |                  | 0                      | 35         | ND (3)                | ND (1)                | ND (1)     | 0.0000                 | 0.00       | 0.000                 | 0.00                  | 0.000      | 0.000                  | 0.000 |
| 2004 Totals:           |                    |                  |                        |            |                       |                       |            | 24.34                  |            |                       | 62.26                 |            | 1.41                   | 10.00 |
| 1/20/2005              |                    |                  |                        |            |                       |                       |            |                        |            |                       |                       |            |                        |       |
| 2/23/2005              | 245                |                  | 0                      | 34         |                       |                       |            | 0.0000                 | 0.00       |                       |                       |            |                        |       |
| 3/28/2005              | 234 (1)            |                  | 0                      | 34         | ND (1)                | ND (1)                | 2          | 0.0000                 | 0.00       | 0.000                 | 0.00                  | 0.000      | 0.002                  | 1.43  |
| 4/28/2005              | 222                |                  | 0                      | 30         | 0.5                   | ND (1)                | 1          | 0.0000                 | 0.00       | 0.0004                | 0.30                  | 0.000      | 0.00                   | 0.80  |
| 5/31/2005              | 223                |                  | 0                      | 33         | 5                     | 2                     | 1          | 0.0000                 | 0.00       | 0.0042                | 3.31                  | 0.0017     | 1.32                   | 0.66  |
| 6/24/2005              | 242                | 10.1             | 15                     | 24         | 64                    | 2                     | 0.8J       | 0.0820                 | 35.70      | 0.0580                | 33.42                 | 0.0018     | 1.04                   | 0.42  |
| 8/4/2005               | 381                |                  | 12                     | 7.5        | 41                    | 57                    | 1J         | 0.1159                 | 114.09     | 0.0814                | 80.05                 | 0.0014     | 1.40                   | 0.86  |
| 2005 Totals:           |                    |                  |                        |            |                       |                       |            | 148.79                 |            |                       | 117.08                |            | 3.77                   | 4.09  |

Notes:  
 -- = Measurement not recorded  
 Discharge Rate (Field Mon., lb/hr) = (flow/cfm) \* Influent conc. (ppmv) \* MMW \* 12.167 / (273.15 + C) \* 1 cu. m / 35.31 cu. ft \* g / 1000 mg \* 1 lb / 453.6 g \* 60 min / 1 hr  
 Discharge Rate (Lab Res., lb/hr) = flow (cfm) \* effluent conc. (mg/cu. m) \* 1000 mg \* 1 lb / 453.6 g \* 60 min / 1 hr  
 Discharge Rate (Lab Res., lb) = Discharge Rate (lb/hr) \* # of days \* 24 hours / day  
 Where:  
 C = degrees centigrade, assumed to be 25  
 J = Estimated Value  
 hr = hours  
 mg/cu. m = milligrams per cubic meter  
 lb = pounds  
 ppmw = parts per million (vol./vol.)  
 ppmw = parts per million (vol./vol.)  
 lb = pounds

| Parameter   | Limit       |
|-------------|-------------|
| PCE         | 0.031 lb/yr |
| TCE         | 0.014 lb/yr |
| cis-1,2-DCE | 0.63 lb/yr  |

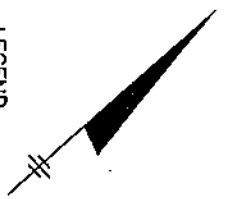


## FIGURES



NOTE  
 FIGURE DEVELOPED BY SHAW ENVIRONMENTAL, INC.  
 REVISED BY OBG (4-28-05).

FIGURE 1

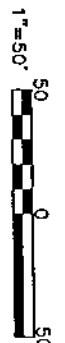


LEGEND

- TRAIN TRACK
- + VAPOR MONITORING POINT
- ⊕ DEEP MONITORING WELL (>30')
- ⊕ SHALLOW MONITORING WELL (<30')
- MANHOLE OR ACCESS POINT
- \*\*— FENCE LINE
- ES- ELECTRIC LINE
- G- GAS LINE
- S-- SANITARY SEWER
- — — PROPERTY LINE
- — — INTERIOR BUILDING WALL (DIVIDES WAREHOUSE)

NATIONAL HEATSET PRINTING  
 FARMINGDALE, NEW YORK

SOIL VAPOR EXTRACTION  
 SYSTEM LOCATION MAP



FILE NO. 10653.35518.002  
 JUNE 2005

**O'BRIEN & GERE**  
 ENGINEERS, INC.  
 2004 O'Brien and 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  
 Weather: sunny 96°

Time: 1000  
 Date: 8/14/05

**System Status:**

Arrival: ~~1200~~ 0700  
 Departure: 1300  
 Run Timer Reading: 17972 H  
 Electric Meter Reading: 1411 (Back Room) 01662 02.64 kW .53 kW

**System Data:**

Extraction Well F Gate Valve: 65 % Open  
 Dilution Valve: 75 % Open

**Pre-Bleed Air (Extraction Well):**  
 Flow: 216 CFM  
 Vacuum: 2.6 "H2O  
 PID Reading: 38.1 PPM  
 Draeger Tube: 19. PPM  
 Temperature: 91.0 °F

**Post-Bleed Air (SVE Influent):**  
 Flow: 353 CFM  
 Vacuum: 7 "H2O  
 PID Reading: 8.8 PPM  
 Draeger Tube: 12 PPM  
 Temperature: 153.4 °F

**Carbon Monitoring:**

Mid: 10.5 PPM 423 CFM 135.7 Temp. (°F)  
 Effluent: 7.5 PPM 381 CFM 120.7 Temp. (°F) 12 PPM (Drager)  
12 PPM (Drager)

Carbon effluent sample collected & shipped to lab? yes

Knockout Tank Drained? NO  
 # Gallons: NA  
 Purge water drums on-site: NA

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

| Well/V.P. ID: | MW-C  | MW-E  | MW-F | MW-G  | VP-1 | VP-2                    | VP-3 | VP-4 | VP-5 | VP-6 |
|---------------|-------|-------|------|-------|------|-------------------------|------|------|------|------|
| DTW (ft):     | 16.17 | 16.19 | -    | 16.36 | -    | -                       | -    | -    | -    | -    |
| Vac. ("H2O):  | -     | -     | -    | -     | .56  | <del>1.18</del><br>1.62 | 1.10 | -    | -    | -    |

**Comments:**

Ed Rubin was on site, SVE system was unblocked upon arrival, but YEC, Inc. left it locked up.  
SVE System Carbon is scheduled to be changed.

**APPENDIX B**  
**LABORATORY REPORT OF ANALYSES**



*"Environmental Testing For The New Millennium"*

---

September 8, 2005

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

RE: Client Project: National Heatset  
Lab Project #: D0911

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,

A handwritten signature in cursive script, appearing to read "Agnes R. Ng".

Agnes R. Ng  
CLP Project Manager



**Report of Laboratory Analyses for O'Brien & Gere**

**Client Project: National Heatset**

**SDG# MD0911**

**Mitkem Work Order ID: D0911**

**September 8, 2005**

**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



**Client: O'Brien & Gere**

**Client Project: National Heatset**

**Lab Project: D0911**

**Date samples received: 08/05/05**

### **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 August 5, 2005. 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. Due to the high concentration of tetrachloroethene, the sample was analyzed at 2x dilution. No other 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.

A handwritten signature in black ink, appearing to read "Agnes Ng".

Agnes Ng  
CLP Project Manager



1A  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: MD0911

Matrix: (soil/water) AIR

Lab Sample ID: D0911-01A

Sample wt/vol: 25 (g/mL) ML

Lab File ID: V6D7607

Level: (low/med) LOW

Date Received: 08/05/05

% Moisture: not dec. \_\_\_\_\_

Date Analyzed: 08/09/05

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 2.0

Soil Extract Volume: \_\_\_\_\_ (uL)

Soil Aliquot Volume: \_\_\_\_\_ (uL)

CONCENTRATION UNITS:  
(ug/L or ug/Kg) MG/M3

| CAS NO.    | COMPOUND                  |     | Q |
|------------|---------------------------|-----|---|
| 75-71-8    | Dichlorodifluoromethane   | 2   | U |
| 74-87-3    | Chloromethane             | 2   | U |
| 75-01-4    | Vinyl Chloride            | 2   | U |
| 74-83-9    | Bromomethane              | 2   | U |
| 75-00-3    | Chloroethane              | 2   | U |
| 75-69-4    | Trichlorofluoromethane    | 2   | U |
| 75-35-4    | 1,1-Dichloroethene        | 2   | U |
| 67-64-1    | Acetone                   | 2   | U |
| 74-88-4    | Iodomethane               | 2   | U |
| 75-15-0    | Carbon Disulfide          | 2   | U |
| 75-09-2    | Methylene Chloride        | 2   | U |
| 156-60-5   | trans-1,2-Dichloroethene  | 2   | U |
| 1634-04-4  | Methyl tert-butyl ether   | 2   | U |
| 75-34-3    | 1,1-Dichloroethane        | 2   | U |
| 108-05-4   | Vinyl acetate             | 2   | U |
| 78-93-3    | 2-Butanone                | 2   | U |
| 156-59-2   | cis-1,2-Dichloroethene    | 0.7 | J |
| 590-20-7   | 2,2-Dichloropropane       | 2   | U |
| 74-97-5    | Bromochloromethane        | 2   | U |
| 67-66-3    | Chloroform                | 2   | U |
| 71-55-6    | 1,1,1-Trichloroethane     | 2   | U |
| 563-58-6   | 1,1-Dichloropropene       | 2   | U |
| 56-23-5    | Carbon Tetrachloride      | 2   | U |
| 107-06-2   | 1,2-Dichloroethane        | 2   | U |
| 71-43-2    | Benzene                   | 2   | U |
| 79-01-6    | Trichloroethene           | 1   | J |
| 78-87-5    | 1,2-Dichloropropane       | 2   | U |
| 74-95-3    | Dibromomethane            | 2   | U |
| 75-27-4    | Bromodichloromethane      | 2   | U |
| 10061-01-5 | cis-1,3-Dichloropropene   | 2   | U |
| 108-10-1   | 4-Methyl-2-pentanone      | 2   | U |
| 108-88-3   | Toluene                   | 2   |   |
| 10061-02-6 | trans-1,3-Dichloropropene | 2   | U |
| 79-00-5    | 1,1,2-Trichloroethane     | 2   | U |

LA  
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

|          |
|----------|
| EFFLUENT |
|----------|

|                                 |           |                                 |
|---------------------------------|-----------|---------------------------------|
| Lab Name: MITKEM CORPORATION    | Contract: |                                 |
| Lab Code: MITKEM                | Case No.: | SAS No.:                        |
|                                 |           | SDG No.: MD0911                 |
| Matrix: (soil/water) AIR        |           | Lab Sample ID: D0911-01A        |
| Sample wt/vol: 25 (g/mL) ML     |           | Lab File ID: V6D7607            |
| Level: (low/med) LOW            |           | Date Received: 08/05/05         |
| % Moisture: not dec. _____      |           | Date Analyzed: 08/09/05         |
| GC Column: DB-624 ID: 0.25 (mm) |           | Dilution Factor: 2.0            |
| Soil Extract Volume: _____ (uL) |           | Soil Aliquot Volume: _____ (uL) |

|         |          |   |   |
|---------|----------|---|---|
| CAS NO. | COMPOUND | CONCENTRATION UNITS:<br>(ug/L or ug/Kg) MG/M3 | Q |
|---------|----------|---|---|

|   |    |   |
|---|----|---|
| 142-28-9-----1,3-Dichloropropane        | 2  | U |
| 127-18-4-----Tetrachloroethene          | 57 | U |
| 591-78-6-----2-Hexanone                 | 2  | U |
| 124-48-1-----Dibromochloromethane       | 2  | U |
| 106-93-4-----1,2-Dibromoethane          | 2  | U |
| 108-90-7-----Chlorobenzene              | 2  | U |
| 630-20-6-----1,1,1,2-Tetrachloroethane  | 2  | U |
| 100-41-4-----Ethylbenzene               | 2  | U |
| -----m,p-Xylene                         | 2  | U |
| 95-47-6-----o-Xylene                    | 2  | U |
| 1330-20-7-----Xylene (Total)            | 2  | U |
| 100-42-5-----Styrene                    | 2  | U |
| 75-25-2-----Bromoform                   | 2  | U |
| 98-82-8-----Isopropylbenzene            | 2  | U |
| 79-34-5-----1,1,2,2-Tetrachloroethane   | 2  | U |
| 108-86-1-----Bromobenzene               | 2  | U |
| 96-18-4-----1,2,3-Trichloropropane      | 2  | U |
| 103-65-1-----n-Propylbenzene            | 2  | U |
| 95-49-8-----2-Chlorotoluene             | 2  | U |
| 108-67-8-----1,3,5-Trimethylbenzene     | 2  | U |
| 106-43-4-----4-Chlorotoluene            | 2  | U |
| 98-06-6-----tert-Butylbenzene           | 2  | U |
| 95-63-6-----1,2,4-Trimethylbenzene      | 2  | U |
| 135-98-8-----sec-Butylbenzene           | 2  | U |
| 99-87-6-----4-Isopropyltoluene          | 2  | U |
| 541-73-1-----1,3-Dichlorobenzene        | 2  | U |
| 106-46-7-----1,4-Dichlorobenzene        | 2  | U |
| 104-51-8-----n-Butylbenzene             | 2  | U |
| 95-50-1-----1,2-Dichlorobenzene         | 2  | U |
| 96-12-8-----1,2-Dibromo-3-chloropropane | 2  | U |
| 120-82-1-----1,2,4-Trichlorobenzene     | 2  | U |
| 87-68-3-----Hexachlorobutadiene         | 2  | U |
| 91-20-3-----Naphthalene                 | 2  | U |
| 87-61-6-----1,2,3-Trichlorobenzene      | 2  | U |

Mitkem Corporation

08/Aug/05 13:50

WorkOrder: D0911

Client ID: OBRIEN\_GERE  
Project: Nation Heatset  
Location:  
Comments: N/A

Case:  
SDG:  
PO: HEATSET

Report Level: LEVEL 2  
EDD: CLF  
HC Due: 08/19/05  
Fax Due:

| Sample ID | Client Sample ID | Collection Date | Date Received | Matrix | Test Code | Lab Test Comments | Iold                     | MS                       | SEL                      | Storage |
|-----------|------------------|-----------------|---------------|--------|-----------|-------------------|--------------------------|--------------------------|--------------------------|---------|
| D0911-01A | EFFLUENT         | 08/04/05 11:00  | 08/05/05      | Air    | TO14      |                   | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | VOA     |



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

# CHAIN-OF-CUSTODY RECORD

|   |  |  |  |  |  |
|---|--|--|--|--|--|
| COMPANY <b>O'Brien + Gere</b><br>PHONE <b>515 861 100</b><br>FAX <b>313 463 7554</b>  |  | COMPANY <b>O'Brien + Gere</b><br>PHONE <b>(313) 437-6100</b><br>FAX <b>(313) 463-7554</b>                                    |  | LAB PROJECT #:<br><b>DOA11</b>             |  |
| NAME <b>Marc J. Dent</b><br>ADDRESS <b>5000 Brittonfield Pkwy PO. Box 4873</b><br>CITY/ST/ZIP <b>Syracuse NY 13221-4873</b> |  | NAME <b>Marc J. Dent</b><br>ADDRESS <b>5000 Brittonfield Pkwy PO. Box 4873</b><br>CITY/ST/ZIP <b>Syracuse, NY 13221-4873</b> |  | TURNAROUND TIME:<br><b>STD</b>             |  |
| CLIENT PROJECT NAME:<br><b>National Heatset</b>   |  | CLIENT PROJECT #:<br><b>13221-4873</b>   |  | REQUESTED ANALYSES:<br><b>Method TO-14</b> |  |
| SAMPLE IDENTIFICATION<br><b>Effluent</b>  |  | DATE/TIME SAMPLED<br><b>8/4/05 1100</b>  |  | COMMENTS<br>                               |  |
| COMPOSITE <input checked="" type="checkbox"/>   |  | GRAB <input type="checkbox"/>  |  |  |  |
| WATER <input type="checkbox"/>  |  | SOIL <input type="checkbox"/>  |  |  |  |
| OTHER <input type="checkbox"/>  |  | AIR <input checked="" type="checkbox"/>  |  |  |  |
| LAB ID  |  | # OF CONTAINERS  |  |  |  |
| DATE/TIME RELINQUISHED BY<br><b>8/4/05 1500</b><br><b>Stanley Samples</b>   |  | DATE/TIME ACCEPTED BY<br><b>8/5/05 8:50</b><br><b>C. GARDNER</b>   |  | ADDITIONAL REMARKS:<br>                    |  |
| COOLER TEMP:<br><b>Ambient</b>  |  |  |  |  |  |

**MITKEM CORPORATION**  
**Sample Condition Form**

|   |                                  |                         |                   |                                |     |                                |   |  |
|---|----------------------------------|-------------------------|-------------------|--------------------------------|-----|--------------------------------|---|--|
| Received By: <u>APN</u>                                 |                                  | Reviewed By: <u>JJD</u> |                   | Date: <u>8/5/05</u>            |     | MITKEM Project #: <u>D0911</u> |   |  |
| Client Project: <u>Heatset</u>                          |                                  |                         |                   | Client: <u>O'Brien + Gere</u>  |     |                                | Soil Headspace or Air Bubbles $\geq 1/4"$ |  |
| Cooler Sealed <input checked="" type="radio"/> Yes / No | Lab Sample ID                    |                         | Preservation (pH) |                                |     |                                | VOA Matrix                                |  |
|   | <u>D0911</u>                     | <u>01</u>               | HNO <sub>3</sub>  | H <sub>2</sub> SO <sub>4</sub> | HCl | NaOH                           | <u>A</u>                                  |  |
| 1) Custody Seal(s)                                      | Present / <u>Absent</u>          |                         |                   |                                |     |                                |   |  |
|   | <u>Coolers</u> / Bottles         |                         |                   |                                |     |                                |   |  |
|   | Intact / Broken                  |                         |                   |                                |     |                                |   |  |
| 2) Custody Seal Number(s)                               |                                  |                         |                   |                                |     |                                |   |  |
|   |                                  |                         |                   |                                |     |                                |   |  |
|   |                                  |                         |                   |                                |     |                                |   |  |
|   |                                  |                         |                   |                                |     |                                |   |  |
|   |                                  |                         |                   |                                |     |                                |   |  |
| 3) Chain-of-Custody                                     | <u>Present</u> / Absent          |                         |                   |                                |     |                                |   |  |
| 4) Cooler Temperature                                   | <u>Ambient</u>                   |                         |                   |                                |     |                                |   |  |
| Coolant Condition                                       |                                  |                         |                   |                                |     |                                |   |  |
| 5) Airbill(s)   | <u>Present</u> / Absent          |                         |                   |                                |     |                                |   |  |
| Airbill Number(s)                                       | <u>FedEx</u>                     |                         |                   |                                |     |                                |   |  |
|   | <u>851850281936</u>              |                         |                   |                                |     |                                |   |  |
|   |                                  |                         |                   |                                |     |                                |   |  |
| 6) Sample Bottles                                       | <u>Intact</u> / Broken / Leaking |                         |                   |                                |     |                                |   |  |
| 7) Date Received  | <u>8/5/05</u>                    |                         |                   |                                |     |                                |   |  |
| 8) Time Received  | <u>850</u>                       |                         |                   |                                |     |                                |   |  |
| Preservative Name/Lot No:                               |                                  |                         |                   |                                |     |                                |   |  |
|   |                                  |                         |                   |                                |     |                                |   |  |
|   |                                  |                         |                   |                                |     |                                |   |  |
|   |                                  |                         |                   |                                |     |                                |   |  |

**VOA Matrix Key:**  
**US** = Unpreserved Soil    **A** = Air  
**UA** = Unpreserved Aqueous    **H** = HCl  
**M/N** = MeOH & NaHSO<sub>4</sub>    **E** = Encore  
**N** = NaHSO<sub>4</sub>    **M** = MeOH

See Sample Condition Notification/Corrective Action Form    yes /  no

Rad OK    yes/ no

## **Last Page of Data Report**