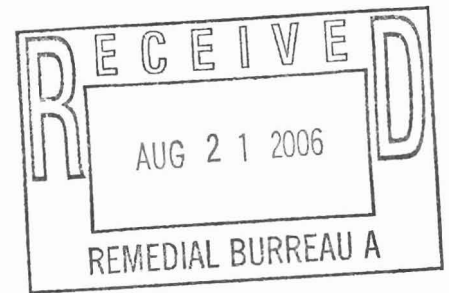




O'BRIEN & GERE



August 17, 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-
June 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 June 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 (May 4, 2006 to June 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 934 hours.

A flow of 156 cfm and a vacuum of 53 inches of water column were observed at the extraction well. The SVE blower operated at a flow of 216 cubic feet per minute (cfm) as measured at the SVE influent. Field personnel recorded a tetrachloroethene (PCE) concentration of 4.0 ppm (by Draeger tube) and a concentration of volatile organic compounds (VOCs) of 5.5 ppm (by PID) from the extraction well (pre-dilution).

VOC concentrations of 7.9 ppm (by PID) and a PCE concentration of 9.0 ppm (by Draeger Tube) were observed at the SVE influent port during the site visit. VOC concentrations of 4.1 ppm (by PID) and a PCE concentration of 3.0 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 2.6, 0.4, 0.25, 0.04, 0.4, 0.34, 0.14, 0.11, 0.02, 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-

Mr. Jeff Dyber, P.E.
August 17, 2006
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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 18 pounds of PCE from the extraction well during this reporting period and has removed approximately 2,437 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. Concentrations of PCE, TCE and cis-1, 2-DCE were not detected in the effluent sample above a detection limit of 1 mg/m³. 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, no TCE, PCE, or cis-1, 2-DCE 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 0.0 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

TABLES

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

Run Time Since Last Visit (hours)	Date	Reading (hours)	Run Time Since Last Visit (%)		Operation Time Since Last Visit (%)	Dilution Valve Position (% Open)	MW-F Valve Position (% Open)	Air Flow at Well (scfm)	Vacuum at Well (inches H ₂ O)	Pre-Dilution PID (ppm)	Pre-Dilution PCE (cfm)	Blower Flow (cfm)	Vacuum (inches H ₂ O)	Temp. (°F)	PID (ppm)	PCE (ppm)	Flow (cfm)	Temp. (°F)	PID (ppm)	Temp. (°F)	Mid GAC	Effluent GAC		
			Actual	Available																				
12/8/2005	2918	647	647	100	100	50	50	75	29	22.2	5.0	235	--	--	113.5	7.2	2.0	227	96.7	6.8	2	212	79.8	0.1
1/6/2006	3614	696	696	100	100	50	50	75	79	22.7	2.0	245	--	--	82	32.5	4.0	280	83.9	19.0	2.0	265	77.5	5.8
2/6/2006	4332	744	718	97	75	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
3/14/2006	5200	868	868	100	75	75	75	49	212	12.9	2.0	212	--	--	132.8	5.5	5.0	287	135.6	0.0	0.0	232	115.1	0.0
4/12/2006	5895	695	695	100%	75	75	115	47	259	14.1	2.0	259	--	--	152.1	6.1	6.0	249	153.2	0.0	0.0	271	135.1	0.0
5/4/2006	6420	525	525	100%	50	50	75	51	17.9	17.9	2.0	199	--	--	145.2	7.8	5.0	186	136.1	0.1	0.0	214	117.8	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	

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 Drager tube of 10-500 ppm range

scfm = standard cubic feet per minute

cfm = cubic feet per minute

O'Brien & Gere Engineers, Inc.

-- = 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 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) ⁽²⁾	Elapsed Time Since Last Visit (day)	PCE Removal Since Last Visit (lb)	Cumulative PCE Removal (lb)
SVE PILOT TEST STARTUP							
9/18/2002							
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.

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

⁽³⁾ 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, as measured
flow = average of the present and the previous months measured SVE influent rate in cubic feet per minute (cfm)

lb = pounds
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 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
<i>Spent Carbon Replaced 8/10/05</i>			
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)
<i>Spent Carbon Replaced 1/25/06</i>			
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 = 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 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)

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**

Date	System Effluent Flow Rate (cfm)	Field Monitoring		Elapsed Time (day)	Laboratory Results			Discharge based on Field Monitoring		Discharge based on Laboratory Results								
		PCE System Effluent Concentration (ppmv)	System Effluent VOC Concentration (ppmv)		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	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	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	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	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 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

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

Date	System Effluent Flow Rate (cfm)	Field Monitoring		Elapsed Time (day)	Laboratory Results			Discharge based on Field Monitoring		Discharge based on Laboratory Results						
		PCE System Effluent Concentration (ppmv)	System Effluent VOC Concentration (ppmv)		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	
<i>Spent Carbon Replaced 8/10/05</i>																
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	
<i>Spent Carbon Replaced 1/25/06</i>																
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	
2006 Totals:									0.00		1.29		0.00		0.00	

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 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

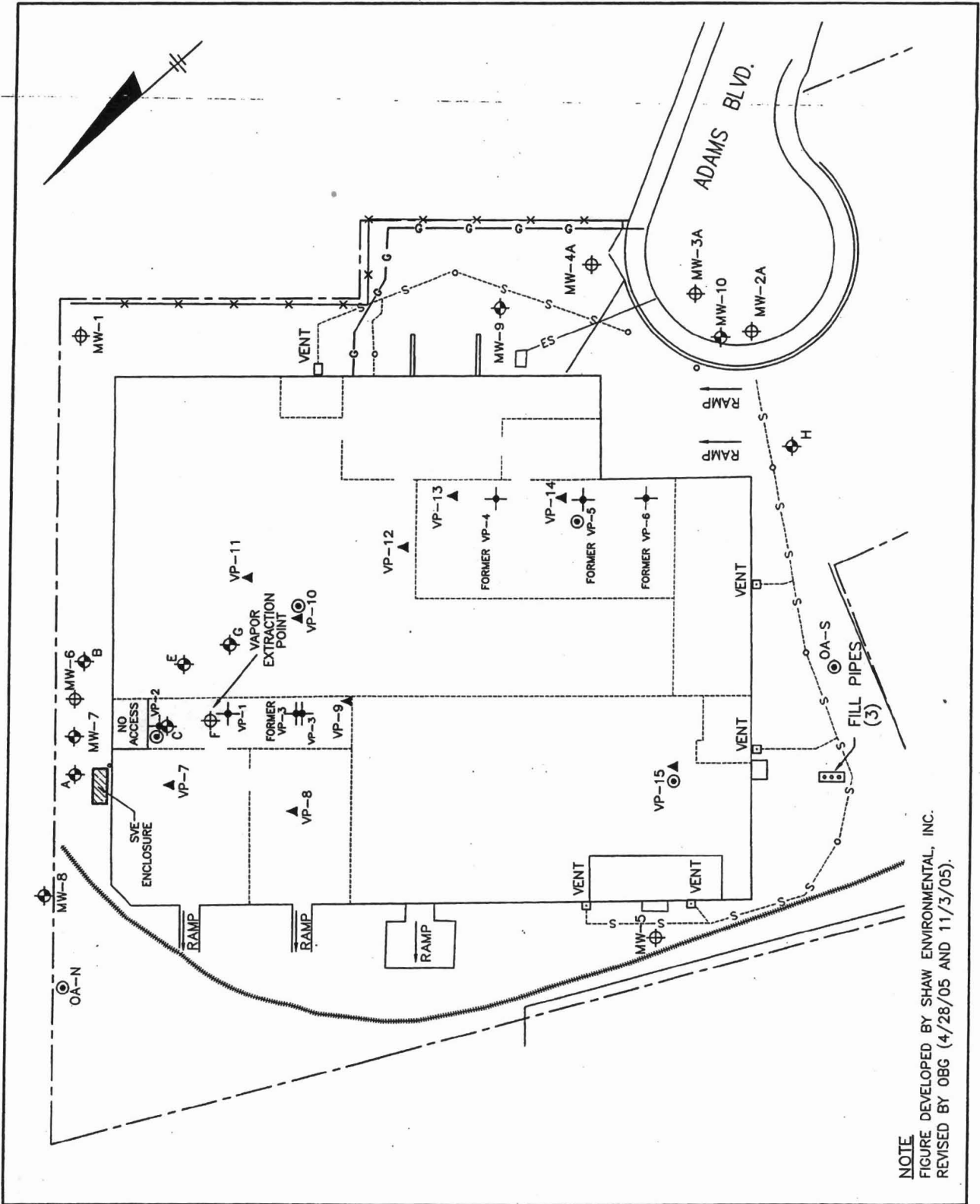
- LEGEND**
- +—+— TRAIN TRACK
 - ⊙ AIR SAMPLING POINT (LOCATIONS APPROXIMATE AS SHOWN)
 - ▲ SAMPLING/ VAPOR MONITORING POINT
 - + VAPOR MONITORING POINT
 - ⊕ DEEP MONITORING WELL (>30')
 - ⊕ SHALLOW MONITORING WELL (<30')
 - MANHOLE OR ACCESS POINT
 - *—*— FENCE LINE
 - ES— ELECTRIC LINE
 - G— GAS LINE
 - S— SANITARY SEWER
 - — — PROPERTY LINE
 - INTERIOR BUILDING WALL (DIVIDES WAREHOUSE)

NATIONAL HEATSET PRINTING
FARMINGDALE, NEW YORK

**SUBSLAB INVESTIGATION
LOCATIONS**



FILE NO. 10653.35518.003
NOVEMBER 2005



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

APPENDIX A
SITE VISIT DOCUMENTATION

National Heatset Printing
 1 Adams Boulevard, Farmingdale, New York
 O'Brien & Gere Eng. - Job # 35518.005

Personnel: Dan Simpsor Time: 1000
 Weather: Overcast 60° Date: 6/12/2006

System Status:

Arrival: 1000
 Departure: 1340
 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):

Flow: 156 CFM
 Vacuum: 53 "H2O
 PID Reading: 5.5 PPM
 Draeger Tube: 4 PPM
 Temperature: 78.7 °F

Post-Bleed Air (SVE Influent):

Flow: 216 CFM
 Vacuum: -- "H2O
 PID Reading: 7.9 PPM
 Draeger Tu: 9 PPM
 Temperatur: 141 °F

Carbon Monitoring:

Mid: 4.1 PPM 270 CFM 134 Temp. (°F) 3.0 PPM (Drager)
 Effluent: 0.0 PPM 253 CFM 116 Temp. (°F) 0.0 PPM (Drager)

Carbon effluent sample collected & shipped to Yes

Knockout Tank Drained? Yes
 # Gallons: 115
 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):	13.98	14.20	13.98	--	--	--	--	--	--	--	--	--	--	--	--
Vac. (" H2O):	--	--	--	2.6	0.4	0.25	0.04	0.4	0.34	N/A	0.14	0.11	0.02	0.04	N/A
PID (PPM):	--	--	--	--	--	--	0.0	0.0	0.0	N/A	0.1	0.7	1.1	0.0	N/A

Comments:

- * Heavy rain this week may account for tank knockout
- * VP-10 covered by cardboard in Eagle Box Co.

APPENDIX B
LABORATORY REPORT OF ANALYSES



"Environmental Testing For The New Millennium"

June 28, 2006

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

RE: Client Project: National Heatset, 06/12/06
Lab Project #: E0797

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 black ink, appearing to read "Edward A. Lawler", is written over the word "Sincerely,".

Edward A. Lawler
Laboratory Operations Manager



Report of Laboratory Analyses for O'Brien & Gere

Client Project: National Heatset, 06/12/06

Mitkem Work Order ID: E0797

June 28, 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



Client: O'Brien & Gere

Client Project: National Heatset, 06/12/06

Lab Project: E0797

Date samples received: 06/14/06

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 June 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.

A handwritten signature in black ink, appearing to read "Edward A. Lawler".

Edward A. Lawler
Laboratory Operations 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.: ME0797

Matrix: (soil/water) AIR

Lab Sample ID: E0797-01A

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

Lab File ID: V6E3687

Level: (low/med) LOW

Date Received: 06/14/06

% Moisture: not dec. _____

Date Analyzed: 06/23/06

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	

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.: ME0797

Matrix: (soil/water) AIR

Lab Sample ID: E0797-01A

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

Lab File ID: V6E3687

Level: (low/med) LOW

Date Received: 06/14/06

% Moisture: not dec. _____

Date Analyzed: 06/23/06

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

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: 07/05/06
Fax Due: 06/28/06

Sample ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Lab Test Comments	Hold	MS	SEL	Storage
E0797-01A	SVE-EFF	06/12/2006 11:00	06/14/2006	Air	TO14		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VOA

MITKEM CORPORATION

Sample Condition Form

Received By: <u>DKD</u>		Reviewed By: <u>[Signature]</u>		Date: <u>6/14/06</u>		MITKEM Workorder #: <u>E0797</u>	
Client Project: <u>National Headset</u>				Client: <u>CBG</u>			Soil Headspace or Air Bubbles $\geq 1/4"$
		Lab Sample ID		Preservation (pH)		VOA Matrix	
1) Cooler Sealed <input checked="" type="checkbox"/> Yes / No		<u>E0797 01</u>		HNO ₃	H ₂ SO ₄	HCl	NaOH
2) Custody Seal(s) <input checked="" type="checkbox"/> Present / Absent							
<input checked="" type="checkbox"/> Coolers / Bottles							
<input checked="" type="checkbox"/> Intact / Broken							
3) Custody Seal Number(s) <u>N/A</u>							
4) Chain-of-Custody <input checked="" type="checkbox"/> Present / Absent							
5) Cooler Temperature <u>ambient</u>							
Coolant Condition _____							
6) Airbill(s) <input checked="" type="checkbox"/> Present / Absent							
Airbill Number(s) <u>FedEx</u>							
<u>855594342364</u>							
7) Sample Bottles <input checked="" type="checkbox"/> Intact / Broken / Leaking							
8) Date Received <u>6/14/06</u>							
9) Time Received <u>9:00</u>							
Preservative Name/Lot No:							

DKD
6/14/06

VOA Matrix Key:
US = Unpreserved Soil **A** = Air
UA = Unpreserved Aqu. **H** = HCl
M = MeOH **E** = Encore
N = NaHSO₄ **F** = Freeze

See Sample Condition Notification/Corrective Action Form yes / no

Rad OK yes/ no

Last Page of Data Report