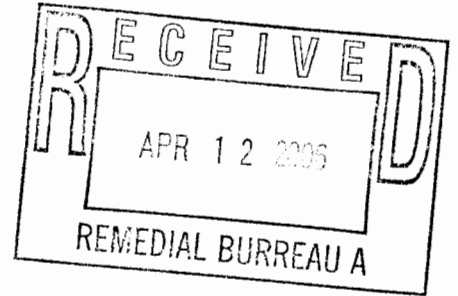




O'BRIEN & GERE

April 10, 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-
February 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 February 6, 2005 on behalf of O'Brien & Gere Engineers, Inc (OBG) in accordance with our approved Work Plan.

System Operation

The SVE system operated for 97% of the reporting period (January 6, 2006 through February 6, 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 718 hours out of a possible 744 hours.

A carbon change-out occurred on January 25, 2006 and was performed by ServiceTech, Inc. The system was out of operation for this maintenance. The well valve was placed at 75% open, the dilution valve was placed at 25% open and the system was placed back into operation immediately following change-out. On January 26, 2006, an OBG representative on-site observed that the SVE system was not operating. A "High Water Alarm" was indicated and the knock-out tank was observed to be filled with water after apparently drawing ground water into the system. The knock-out tank was drained of approximately 200 gallons of liquid, the dilution valve was placed in the 75% open position, and the system was placed back in operation. Drained liquid was transferred to four 55-gallon drums on-site which are currently stored on-site.

A flow of 80.0 cfm and a vacuum of 25 inches of water column were observed at the extraction well. The SVE blower operated at a flow of 292 cubic feet per minute (cfm) as measured at the SVE influent. Field personnel recorded a tetrachloroethene (PCE) concentration of 3.0 ppm (by Draeger tube) and a concentration of volatile organic compounds (VOCs) of 16.3 ppm (by PID) from the extraction well (pre-dilution).

VOC concentrations of 3.6 ppm (by PID) and a PCE concentration of 2.0 ppm (by Draeger Tube) were observed at the SVE influent port during the site visit. VOC concentrations of 0.0 ppm (by PID) and a PCE concentration of 0.0 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.

Mr. Jeff Dyber, P.E.
April 10, 2006
Page 2

Monitoring Probes

A vacuum of 0.55, 0.50, 0.2, 0.01, 0.16, 0.05 and 0.9 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-10 and VP-11 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 and flow rate measured at the SVE influent sampling point. The SVE system removed approximately 10 pounds of PCE from the extraction well during this reporting period and has removed approximately 2,383 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. PCE was detected at 1 mg/m³. Concentrations of 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, 1 ppb of PCE was discharged during the current monitoring period; no TCE or cis-1, 2-DCE was discharged. 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 0.87 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 TCE has been discharged during the year 2006 toward the permitted annual discharge limit of 120 lb.

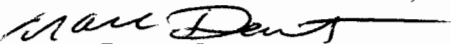
Conclusions and Recommendations

Based on the data collected from the SVE system during this reporting period, OBG recommends continued operation of the SVE system. It is recommended that the dilution valve remain at the 75% open position, and the extraction well (MW-F) valve remain at the 75% open position to prevent ground water from entering the knock-out tank and shutting the SVE system down.

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

Date	Run Time Meter Reading (hours)	Run Time Since Last Visit (hours)		Operation Time Since Last Visit (%)	Dilution Valve Position (% Open)	Extraction Well MW-F Valve Position (% Open)	Air Flow at Well (scfm)	Vacuum at Well (inches H2O)	Pre-Dilution PID (ppm)	Pre-Dilution PCE (ppm)	Influent SVE					Mid GAC				Effluent GAC			
											Blower Flow (cfm)	Vacuum (inches H2O)	Temp. (°F)	PID (ppm)	PCE (ppm)	Flow (cfm)	Temp. (°F)	PID (ppm)	PCE (ppm)	Flow (cfm)	Temp. (°F)	PID (ppm)	PCE (ppm)
12/8/2005	2918	647	647	100	50	50	79	29	22.2	5.0	235	--	113.5	7.2	2	227	96.7	6.8	2	212	79.8	0.1	0
1/6/2006	3614	696	696	100	50	75	120	42	2.7	2.0	245	--	82	32.5	4.0	280	83.9	19.0	2.0	265	77.5	5.8	0
Spent Carbon Replaced 1/25/06																							
2/6/2006	4332	744	718	97	75	75	80	25	16.3	3.0	292	--	78	3.6	2	333	90.9	0	0	322	77	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

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

Notes:

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

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

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

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

Date	VOC Influent Concentration (ppmv)	PCE Influent Concentration (ppmv)	% PCE of Total VOCs	SVE Influent Flow Rate (cfm) ⁽²⁾	Elapsed Time Since Last Visit (day)	PCE Removal Since Last Visit (lb)	Cumulative PCE Removal (lb)
<i>Spent Carbon Replaced 8/10/05</i>							
9/13/2005	18.3	12	65.6	226	40	43	2,306
10/10/2005	21.7	10	46.1	222	27	22	2,328
11/11/2005	12.2	9	73.8	209	32	25	2,353
12/8/2005	7.2	2	27.8	235	27	12	2,365
1/6/2006	32.5	4	12.3	245	29	8	2,373
<i>Spent Carbon Replaced 1/25/06</i>							
2/6/2006	3.6	2	55.6	292	30	10	2,383

Notes:
⁽¹⁾ = VOC concentrations of 2,000 ppm and PCE concentrations of 500 ppm are greater than the limit of their respective monitoring device and are to be taken as estimations.
⁽²⁾ SVE Influent (post-dilution) monitoring point data used for calculation of PCE Removal for dates including and subsequent to March 29, 2005; Removal updated on 1-3-06 to represent SVE Influent flow rate.
Removal Rate = [(flow(cfm)*influent conc.(ppmv)*MW*12.187)/(273.15+C)]*1 cu. m./35.31 cu. ft*1g/1000 mg*1 lb/453.6 g
*60 min/1 hr*24 hr/1 day*days of operation

⁽³⁾ Run time meter reading not indicative of SVE system run time; actual hours run is assumed equal to elapsed time.
Where: MW = molecular weight lb = pounds
 Molecular weight (MW) of PCE is 165.85 ppmv = parts per million (volume/volume basis)
 C = degrees centigrade, as measured -- = information not available
 flow = average of the present and the previous months measured SVE influent rate in cubic feet per minute (cfm)

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

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

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

Notes:

Only compounds that were detected above the method reporting limit were presented above

ND (5) = Not detected above method reporting limit in parenthesis

E = 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		
1/13/2003	45	0	--	28	--	--	--	0.0000	0.00	--	--	--	--	--	--		
1/21/2003	220	--	0	8	--	--	--	--	--	--	--	--	--	--	--		
2/10/2003	258	10	3.2	20	8.0	6.0	ND (5)	0.0654	31.40	0.008	3.71	0.006	2.78	0.00	0.00		
3/5/2003	305	--	0	23	--	--	--	--	--	--	--	--	--	--	--		
3/18/2003	282	0	0	13	--	--	--	0.0000	0.00	--	--	--	--	--	--		
4/29/2003	287	0	0.6	42	--	--	--	0.0000	0.00	--	--	--	--	--	--		
5/13/2003	245	0	0.6	14	5.0	ND (1)	ND (1)	0.0000	0.00	0.005	1.54	0.00	0.00	0.00	0.00		
6/30/2003	240	100	29.8	48	--	--	--	0.3043	350.56	--	--	--	--	--	--		
7/22/2003	222	--	0	12	ND (1)	ND (1)	ND (1)	--	--	0.00	0.00	0.00	0.00	0.00	0.00		
8/26/2003	232	10	35.6	35	29.0	3.6	ND (5)	0.0588	49.42	0.025	21.17	0.003	2.63	0.00	0.00		
9/23/2003	210	0	0	28	ND (5)	ND (5)	ND (5)	0.0000	0.00	0.000	0.00	0.000	0.00	0.00	0.00		
10/21/2003	225	0	0	28	ND (5)	ND (5)	ND (5)	0.0000	0.00	0.000	0.00	0.000	0.00	0.00	0.00		
11/24/2003	205	0	0	34	--	--	--	0.0000	0.00	--	--	--	--	--	--		
2003 Totals:									431.38		26.42		5.41		0.00		
1/6/2004	200	0	0	43	--	--	--	0.0000	0.00	--	--	--	--	--	--		
2/9/2004	235	0	0	34	ND (5)	ND (5)	10	0.0000	0.00	0.000	0.00	0.000	0.00	0.009	7.18		
3/30/2004	160	5	24	50	77	1J	2J	0.0203	24.34	0.046	55.38	0.001	0.72	0.001	1.44		
4/29/2004	255	0	0	30	10	ND (5)	ND (5)	0.0000	0.00	0.010	6.88	0.001	0.69	0.002	1.38		
5/24/2004	198	0	0	25	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000	0.00		
6/22/2004	210	0	0	29	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000	0.00		
7/28/2004	181	0	3.1	36	ND (5)	ND (5)	ND (5)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000	0.00		
8/12/2004	187	0	0.1	15	--	--	--	0.0000	0.00	--	--	--	--	--	--		
9/29/2004	205	--	0	48	ND (1)	ND (1)	ND (1)	--	--	0.000	0.00	0.000	0.00	0.000	0.00		
10/20/2004	230	0	0	21	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000	0.00		
11/17/2004	173	0	0	28	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000	0.00		
12/22/2004	131	0	0	35	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000	0.00		
2004 Totals:									24.34		62.26		1.41		10.00		

Notes: -- = Measurement not recorded

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

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

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

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

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

Where: C = degrees centigrade, assumed to be 25

J = Estimated Value

hr = hours

Molecular weight (MW) of PCE=165.85; TCE=131.4; cis-1,2-DCE=96.94

cfm = cubic feet per minute

ppmv = parts per million (vol./vol.)

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	
2006 Totals:									0.00		0.87		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

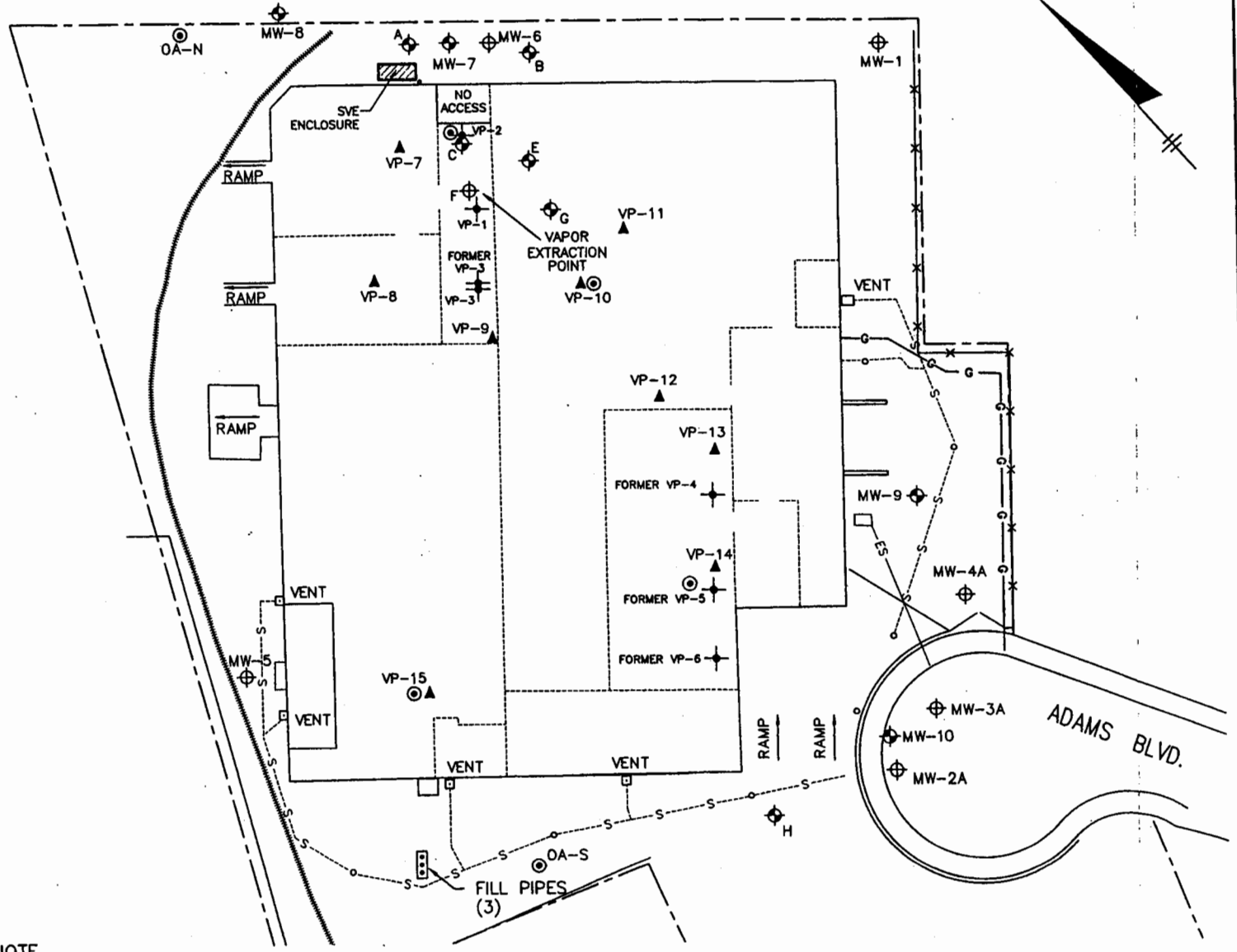
Permit Limit		
	lb/hr	lb/yr
PCE	0.031	270
TCE	0.014	120
cis-1,2-DCE	0.63	5,510

FIGURES

Jan 12, 2006 - 8:23am

S:\2007\Projects\10653\35518\Map\Figure1\35518-001.dwg

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 Simpson, Bryan Shaw Time: 8:30
 Weather: 32° sunny Date: 2/6/2006

System Status:

Arrival: 8:30
 Departure: 1200
 Run Timer Reading: 433228
 Electric Meter Reading: 03602, 0.47kw, 6.85 kw, 0018

System Data:

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

Pre-Bleed Air (Extraction Well):

Flow: 80 CFM
 Vacuum: 25 "H2O
 PID Reading: 16.3 PPM
 Draeger Tube: 3 PPM
 Temperature: 43.3 °F

Post-Bleed Air (SVE Influent):

Flow: 292 CFM
 Vacuum: -- "H2O
 PID Reading: 3.6 PPM
 Draeger Tube: 2 PPM
 Temperature: 78 °F

Carbon Monitoring:

Mid: 0 PPM 333 CFM 90.9 Temp. (°F) 0 PPM (Drager)
 Effluent: 0 PPM 322 CFM 77 Temp. (°F) 0 PPM (Drager)

Carbon effluent sample collected & shipped to lab? yes

Knockout Tank Drained? yes
 # Gallons: 1
 Purge water drums on-site: 5

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-10	VP-11	VP-8
DTW (ft):	13.11	13.11	13.28	--	--	--	--	--	--	--
Vac. (" H2O):	--	--	--	0.55	0.5	0.2	0.01	0.05	0.9	0.16
PID (PPM):	--	--	--	--	--	--	0	0	0	0

Comments:

*no water seen in view glass
*new carbon pellets added

APPENDIX B
LABORATORY REPORT OF ANALYSES

February 17, 2006

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

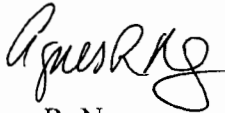
RE: Client Project: National Heatset
Lab Project #: E0132

Dear Mr. Dent:

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

We appreciate your business.

Sincerely,



Agnes R. Ng
CLP Project Manager



Report of Laboratory Analyses for O'Brien & Gere

Client Project: National Heatset

SDG# ME0132

Mitkem Work Order ID: E0132

February 17, 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

Lab Project: E0132

Date samples received: 02/07/06

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 February 7, 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 "Agnes Ng". The signature is fluid and cursive, with the first name "Agnes" and the last name "Ng" clearly distinguishable.

Agnes Ng
CLP Project Manager

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SVE-EFFLUENT

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: ME0132

Matrix: (soil/water) AIR

Lab Sample ID: E0132-01A

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

Lab File ID: V2H2617

Level: (low/med) LOW

Date Received: 02/07/06

% Moisture: not dec. _____

Date Analyzed: 02/15/06

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

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

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-EFFLUENT

Lab Name: MITKEM CORPORATION

Contract:

Lab Code: MITKEM

Case No.:

SAS No.:

SDG No.: ME0132

Matrix: (soil/water) AIR

Lab Sample ID: E0132-01A

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

Lab File ID: V2H2617

Level: (low/med) LOW

Date Received: 02/07/06

% Moisture: not dec. _____

Date Analyzed: 02/15/06

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

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg) MG/M3

Q

CAS NO.	COMPOUND	1	U
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: OBRIEN_GERE
Project: National Heatset
Location:
Comments: Level 2 for air samples

Case:
SDG:
PO: HEATSET

Report Level: ASP-B
EDD: CLF
HC Due: 02/28/06
Fax Due: 02/21/06

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Lab Test Comments	Iold	MS	SEL	Storage
E0132-01A	SVE-EFFLUENT	02/06/06 11:00	02/07/06	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: mitkem@mitkem.com

CHAIN-OF-CUSTODY RECORD

REPORT TO					INVOICE TO												
COMPANY		PHONE			COMPANY		PHONE										
NAME		FAX			NAME		FAX										
ADDRESS					ADDRESS												
CITY/ST/ZIP					CITY/ST/ZIP												
CLIENT PROJECT NAME:					CLIENT PROJECT #:		CLIENT P.O.#:										
LAB PROJECT #:					TURNAROUND TIME:												
O'Brien + Gere					(315) 437 6100			Same		E0132							
Marc Dent								Same		STD							
5000 Brittonfield Pkwy																	
E Syracuse, NY 13057																	
National Heatset																	
SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	REQUESTED ANALYSES								COMMENTS
SVE-Effluent	2/6/06 11:00		X			Air	01		Method TO-14								
	/																
	/																
	/																
	/																
	/																
	/																
	/																
	/																
	/																
	/																
	/																
	/																
	/																
	/																
	/																
	/																
TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY					DATE/TIME	ADDITIONAL REMARKS:					COOLER TEMP:			
		/						/						AMBIENT			
		/						/									
	Daniel Dipe	2/6/06 17:00	James Healey					2/6/06 08:30									

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

0000

MITKEM CORPORATION
Sample Condition Form

Received By: <u>J. H. Hensley</u>	Reviewed By: <u>N</u>	Date: <u>2/07/06</u>	MITKEM Project #: <u>E0130</u>			
Client Project: <u>NATIONAL HEAT SET</u>		Client: <u>O'BRIEN & GERE</u>			Soil Headspace or Air Bubbles ≥ 1/4"	
Cooler Sealed <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No	Lab Sample ID		Preservation (pH)			
	<u>E0132 01</u>		HNO ₃	H ₂ SO ₄	HCl	NaOH
/						
1) Custody Seal(s)	Present / <input checked="" type="checkbox"/> Absent					
	Coolers / <input checked="" type="checkbox"/> Bottles					
	Intact / Broken					
2) Custody Seal Number(s)	<u>N/A</u>					
/						
3) Chain-of-Custody	<input checked="" type="checkbox"/> Present / Absent					
4) Cooler Temperature	<u>AMBIENT</u>					
Coolant Condition						
5) Airbill(s)	<input checked="" type="checkbox"/> Present / Absent					
Airbill Number(s)	<u>FED EX</u>					
	<u>8527 0777 3729</u>					
/						
6) Sample Bottles	<input checked="" type="checkbox"/> Intact / Broken / Leaking					
7) Date Received	<u>2/07/06</u>					
8) Time Received	<u>08:30</u>					
Preservative Name/Lot No:						

VOA Matrix Key:

US = Unpreserved Soil **A** = Air

UA = Unpreserved Aqueo **H** = HCl

M/N = MeOH & NaHSO₄ **E** = Encore

N = NaHSO₄ **M** = MeOH

See Sample Condition Notification/Corrective Action Form yes / no

Rad OK (yes) / no

Last Page of Data Report