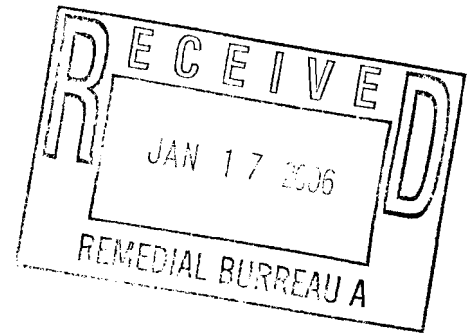




O'BRIEN & GERE



January 12, 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-
November 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 November 11, 2005 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 (October 10, 2005 through November 11, 2005). 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 769 hours.

A flow of 79.0 cfm and a vacuum of 31 inches of water column were observed at the extraction well. The SVE blower operated at a flow of 209 cubic feet per minute (cfm) as measured at the SVE influent. Field personnel recorded a tetrachloroethene (PCE) concentration of 5.0 ppm (by Draeger tube) from the extraction well (pre-dilution). A PID reading could not be collected for volatile organic compounds (VOCs). No water was observed in the knockout vessel during this reporting period.

VOC concentrations of 12.2 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 2.6 ppm (by PID) and a PCE concentration of 2.0 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 1.49, 0.50 and 0.08 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.

Mr. Jeff Dyber, P.E.
January 12, 2006
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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 25 pounds of PCE from the extraction well during this reporting period and has removed approximately 2,353 pounds of PCE to date. A summary of the estimated PCE mass removal over time is presented in Table 2. Note that the PCE removals have been recalculated for the periods between March 29, 2005 to November 11, 2005 using the SVE influent flow rates and PCE concentrations, rather than the extraction well flow rate and PCE concentration, as was previously used. After evaluating the data, we have concluded that the extraction well flow rate and PCE concentration are not accurate due to the sampling point being located on the vacuum (negative pressure) side of the blower. The results indicate that more PCE was removed compared to previous calculations.

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 PCE, TCE or cis-1, 2-DCE was discharged during the current monitoring period. 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 remain at the 50% open position, and the extraction well (MW-F) valve be set to the 75% open position.

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

Notes:

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

⁽²⁾ Run time meter reading not 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)
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.

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
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)

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	Field Monitoring			Laboratory Results			Discharge based on Field Monitoring			Discharge based on Laboratory Results			
	System Effluent Flow Rate (cfm)	PCE System Effluent Concentration (ppmv)	System 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)	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	290	--	0	--	--	--	--	--	--	--	--	--	--
9/30/2002	--	--	0	12	--	--	--	--	--	--	--	--	--
10/14/2002	--	--	0	14	--	--	--	--	--	--	--	--	--
11/19/2002	290	--	0	36	--	--	--	--	--	--	--	--	--
12/16/2002	340	--	0	27	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	0.0654	31.40	0.008	3.71	0.006	2.78	0.00
3/5/2003	305	--	0	23	--	--	--	--	--	--	--	--	--
3/18/2003	287	0	0	13	--	--	0.0000	0.00	--	--	--	--	--
4/29/2003	282	0	0.6	42	--	--	0.0000	0.00	--	--	--	--	--
5/13/2003	245	0	0.6	14	5.0	ND (1)	0.0000	0.00	0.005	1.54	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)	--	--	0.00	0.00	0.00	0.00	0.00
8/26/2003	232	10	35.6	35	29.0	3.6	0.0588	49.42	0.025	21.17	0.003	2.63	0.00
9/23/2003	210	0	0	28	ND (5)	ND (5)	0.0000	0.00	0.00	0.00	0.00	0.00	0.00
10/21/2003	225	0	0	28	ND (5)	ND (5)	0.0000	0.00	0.00	0.00	0.00	0.00	0.00
11/24/2003	205	0	0	34	--	--	0.0000	0.00	--	--	--	--	--
2003 Totals:								431.38		26.424		5.412	0.000
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	0.00	0.000	0.00	0.009
3/30/2004	160	5	24	50	77	1J	0.203	24.34	0.046	55.38	0.001	0.72	0.001
4/29/2004	255	0	0	30	10	ND (5)	0.0000	0.00	0.010	6.88	0.001	0.69	0.002
5/24/2004	198	0	0	25	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000
6/22/2004	210	0	0	29	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	--	--	--	--	--
9/29/2004	205	--	0	48	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000
10/20/2004	230	0	0	21	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000
11/17/2004	173	0	0	28	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000
12/22/2004	131	0	0	35	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000
2004 Totals:								24.34		62.26		1.41	10.00
1/20/2005	--	--	--	--	--	--	--	--	--	--	--	--	--
2/23/2005	245	0	0	34	--	--	0.0000	0.00	0.000	0.00	0.000	0.00	0.000
3/29/2005	234 (1)	0	0	34	ND (1)	ND (1)	2	0.0000	0.000	0.00	0.000	0.002	1.43
4/28/2005	222	0	0	30	0.5	ND (1)	1	0.0000	0.000	0.004	0.30	0.001	0.60
5/31/2005	223	0	0	33	5	2	1	0.0000	0.0042	3.31	0.0017	1.32	0.001
6/24/2005	242	10.1	15	24	64	2	0.8J	0.0620	0.0980	33.42	0.0018	1.04	0.001
8/4/2005	381	12	7.5	41	57	1J	0.1159	114.09	0.0814	80.05	0.0014	1.40	0.001
9/13/2005	248	0	0	40	ND (1)	ND (1)	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.000
10/10/2005	211	0	0	27	ND (1)	ND (1)	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.000
11/11/2005	239	0	0	32	ND (1)	ND (1)	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.000
2005 Totals:								149.79		117.08		3.77	4.09

Notes: -- = Measurement not recorded
 Discharge Rate (Field Mon., lb/hr) = [(flow (cfm) * influent conc. (ppmv) * MW * 12.187) / (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.) * (1/1000 mg) * 1 lb/453.6 g * 1 cu. m. / (35.31 cu. ft) * 60 min/1 hr
 Discharge (Lab Res., lb) = Discharge Rate (lb/hr) * # of days * 24 hours/day
 Where: C = degrees centigrade, assumed to be 25
 hr = hours

(1) Calculated flows based on the average of flows measured on 3-29-05 and 4-28-05
 Molecular weight (MW) of PCE = 166.85; 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

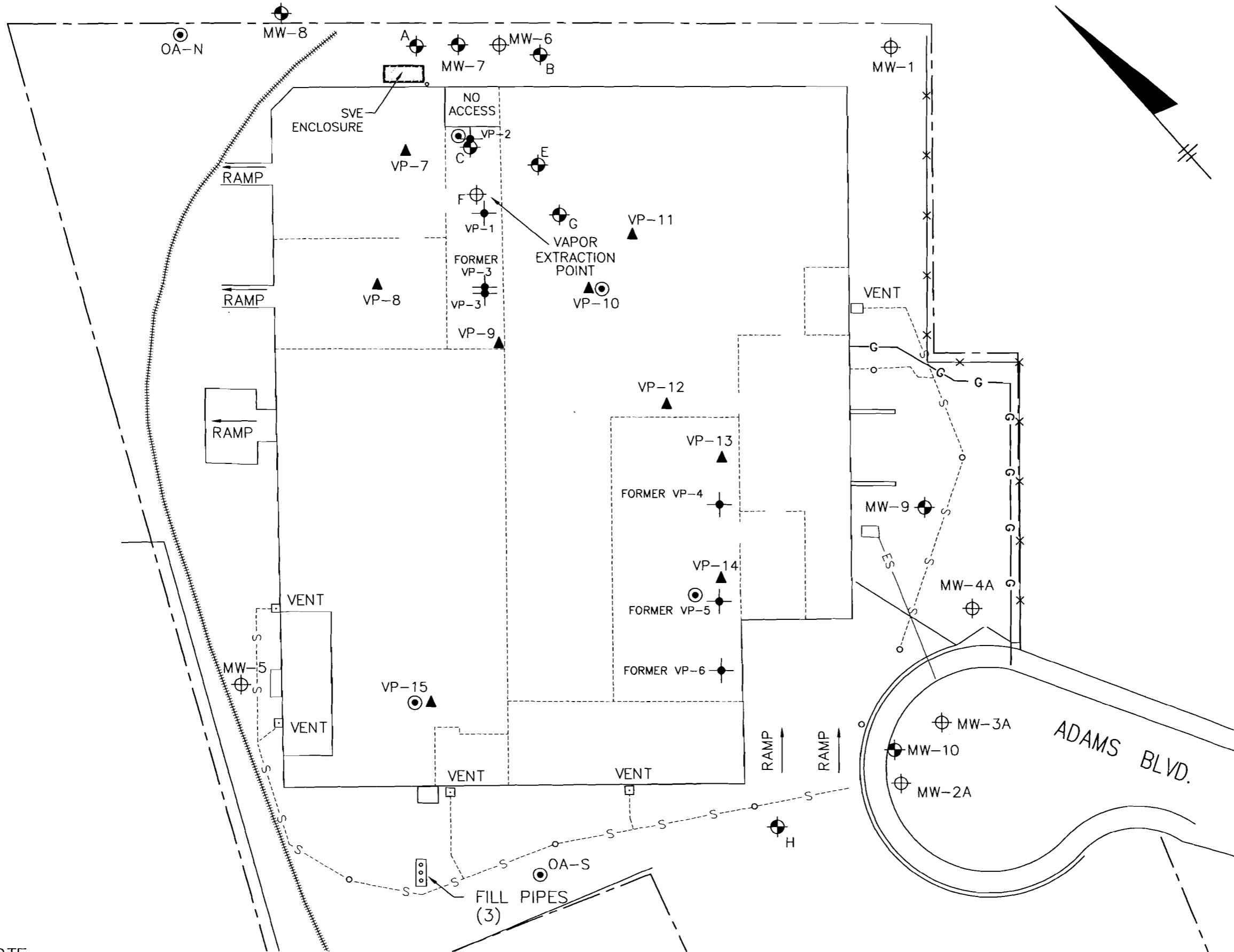
Permit Limit	
	lb/yr
PCE	270
TCE	120
cis-1,2-DCE	5,510

FIGURES

FIGURE 1

Jan 12, 2006 - 8:23am

i:\DW71\Projects\10653\35518.dwg\Figures\35518-003.dwg



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



2004 © O'Brien and Gere Engineers, Inc.

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, Fernando Perez
 Weather: Sunny 50° strong SW wind

Time: 1000
 Date: 11/11/05

System Status:

Arrival: 1000
 Departure: 1230
 Run Timer Reading: 227094 1411 (Back room)
 Electric Meter Reading: 02710, .64 kW, 5.15 kW, 0015

System Data:

Extraction Well F Gate Valve: 50 % Open
 Dilution Valve: 30 % Open

Pre-Bleed Air (Extraction Well):

Flow: 79 CFM
 Vacuum: 31 "H2O
 PID Reading: - PPM
 Draeger Tube: 5.0 PPM
 Temperature: 52.1 °F

Post-Bleed Air (SVE Influent):

Flow: 209 CFM
 Vacuum: - "H2O
 PID Reading: 12.2 PPM
 Draeger Tube: 9.0 PPM
 Temperature: 110.9 °F

Carbon Monitoring:

Mid: 2.6 PPM 242 CFM 99.7 Temp. (°F) 2.0 PPM (Drager)
 Effluent: 0.0 PPM 239 CFM 83.1 Temp. (°F) 0.0 PPM (Drager)

Carbon effluent sample collected & shipped to lab? Yes

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

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):	<u>14.15</u>	<u>14.14</u>	--	<u>14.32</u>	--	--	--	--	--	--
Vac. (" H2O):	--	--	--	--	<u>1.49</u>	<u>.50</u>	<u>.08</u>	--	--	--

Comments:

* Sample taken at 1100
 * 4 Draeger tubes used

APPENDIX B
LABORATORY REPORT OF ANALYSES

**MITKEM
CORPORATION**

"Environmental Testing For The New Millennium"

December 9, 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 #: D1356

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# MD1356

Mitkem Work Order ID: D1356

December 9, 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: D1356

Date samples received: 11/12/05

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 November 12, 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. 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 written in a cursive style with a large, looped initial "A".

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.: MD1356

Matrix: (soil/water) AIR

Lab Sample ID: D1356-01A

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

Lab File ID: V6D9098

Level: (low/med) LOW

Date Received: 11/12/05

% Moisture: not dec. _____

Date Analyzed: 11/16/05

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

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO. COMPOUND (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.: MD1356
Matrix: (soil/water) AIR	Lab Sample ID: D1356-01A
Sample wt/vol: _____ (g/mL) ML	Lab File ID: V6D9098
Level: (low/med) LOW	Date Received: 11/12/05
% Moisture: not dec. _____	Date Analyzed: 11/16/05
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

CAS NO.	COMPOUND	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: OBRIEN_GERE	Case:	Report Level: LEVEL 2
Project: National Heatset	SDG:	EDD: CLF
Location:	PO: HEATSET	HC Due: 12/05/05
Comments: Level 2 for air samples		Fax Due: 11/28/05

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Lab Test Comments	Iold	MS	SEL	Storage
D1356-01A	SVE EFFLUENT	11/11/05 11:00	11/12/05	Air	TO14		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	VOA

5005



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					LAB PROJECT #:		
COMPANY			PHONE				COMPANY			PHONE		D:3510		
NAME			FAX				NAME			FAX				
ADDRESS							ADDRESS					TURNAROUND TIME:		
CITY/ST/ZIP							CITY/ST/ZIP					STD		
CLIENT PROJECT NAME:			CLIENT PROJECT #:		CLIENT P.O.#:		REQUESTED ANALYSES					COMMENTS		
SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS						
SVE Effluent	11/11/05/1100		X			Air	-1	1	Method TO-14					
	/													
	/													
	/													
	/													
	/													
	/													
	/													
	/													
	/													
	/													
	/													
	/													
	/													
	/													
TSP#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY			DATE/TIME	ADDITIONAL REMARKS:					COOLER TEMP:		
		/	Xianzhuo Lin			11/12/05 9:10						6°C		
	Sand Supp	11/11/05/1700				/								
	FedEX 8527 0777 3372	11/11/05/1700				/								

5010

MITKEM CORPORATION
Sample Condition Form

Received By: <u>NU</u>		Reviewed By: <u>AM</u>		Date: <u>11-12-05</u>		MITKEM Project #: <u>D1350</u>	
Client Project: <u>NATIONAL HEAF SET</u>				Client: <u>O'BRIEN GERE</u>			Soil Headspace or Air Bubbles $\geq 1/4$ "
		Lab Sample ID		Preservation (pH)		VOA Matrix	
Cooler Sealed <u>Yes</u> / No		<u>D1350 01</u>		HNO ₃	H ₂ SO ₄	HCl	NaOH
							<u>A</u>
1) Custody Seal(s)		Present / Absent		/			
		Coolers / Bottles					
		Intact / Broken					
2) Custody Seal Number(s)		<u>N/A</u>					
3) Chain-of-Custody		<u>Present</u> / Absent					
4) Cooler Temperature		<u>C/C</u>					
Coolant Condition							
5) Airbill(s)		<u>Present</u> / Absent					
Airbill Number(s)		<u>FED-EX</u> <u>852707793372</u>					
6) Sample Bottles		<u>Intact</u> / Broken / Leaking					
7) Date Received		<u>11-12-05</u>					
8) Time Received		<u>0910</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