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11 January 2011

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

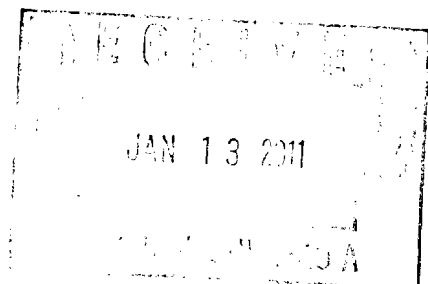
RE: National Heatset Printing Site / Soil Vapor Extraction System
Operation & Maintenance Report (October – December 2010)
1 Adams Boulevard, Farmingdale, New York
New York State Department of Environmental Conservation Site 1-52-140
EA Project No. 14474.29

Dear Mr. Dyber:

This letter report 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). EA Engineering, P.C. and its affiliate EA Science & Technology, Inc. (EA) assumed management of the on-site SVE system under Work Assignment No. D004441-29. The activities are being conducted under the New York State Department of Environmental Conservation (NYSDEC) State Superfund Standby Contract. SVE system details are presented in an Operation & Maintenance (O&M) Manual (Shaw, 2003)¹.

In accordance with our approved Work Plan, monthly site visits were performed up to the June 2009 event. After the June 2009 visit, the frequency of the O&M visits was changed to quarterly. The decision was made in coordination with NYSDEC and was based on the reliability of system operation and the potential cost savings in system monitoring/maintenance. During the reporting period, O&M visits were performed on the following dates by YEC personnel on behalf of EA.

Date	Purpose
12/28/10	Quarterly Visit (December 2010)



¹ The Shaw Group. 2003. Soil Vapor Extraction Operation and Maintenance Manual. October.



1. SYSTEM OPERATION

Based on the motor's hour meter, the system was operational for a total of 1,216 hours out of an available 2,208 hours (55 percent of the total available) during this reporting period (27 September 2010 to 28 December 2010). YEC personnel found the system off on arrival on 28 December 2010. The system shut down during the reporting period due to an apparent power issue. The Sensaphone auto-dialer did not call out and was not functioning on arrival. YEC personnel contacted Sensaphone technical support from the field for troubleshooting assistance. It was determined there was an electrical short in the unit and YEC removed the unit from the control panel to ship to Sensaphone for repairs. The SVE system did restart after resetting the fail-safes.

Operational data for this period have been based on the measurements and effluent sample data collected on 28 December 2010. Operational data are summarized in Table 1 and on the site visit data collection forms provided in Attachment A. Key operating parameters for the SVE system are summarized below.

Date	Extraction Well Flow rate (cfm)	Extraction Well Vacuum (H ₂ O)	SVE Blower Flow rate (cfm)	DCE Conc. ¹ (mg/m ³)	TCE Conc. ¹ (mg/m ³)	PCE Conc. ¹ (mg/m ³)
12/28/10	90	25	275	0.015	0.041	0.318

¹ PCE, DCE & TCE concentration measured via laboratory analysis.

NOTE: cfm = Cubic feet per minute.
PCE = Tetrachloroethylene.
TCE = Trichloroethene.
DCE = cis-1,2 - Dichloroethene

A complete set of operational data collected are presented in Tables 1 through 3.

The dilution valve was adjusted from the 25 percent open position to 75 percent open during the 1st Quarter 2010 by YEC due to water generation that led to a system shut down.

The auto-dialer was sent to Sensaphone on 30 December 2010. YEC will return to the site to reinstall the auto-dialer once repaired.



2. MONITORING PROBES

The following vacuum data (in. of water column) were observed at the listed vapor monitoring points during the monitoring period.

28 December 2010	
Vapor Monitoring Point	Vacuum Reading (Inches H ₂ O)
VP-1	1.1
VP-2	0.4
VP-3	0.25
VP-7	0.25
VP-8	0.15
VP-9	0.10
VP-10	0.20
VP-11	0.10
VP-12	0.04
VP-13	--
VP-14	--
VP-15	--
NOTE: -- Unable to access monitoring point due to being covered by business products.	

The vapor points will continue to be monitored during future site visits.

3. DEPTH-TO-WATER MEASUREMENTS

The following gauging data (ft below top-of-casing) were collected during the monitoring period.

Date	MW-C	MW-E	MW-G
12/28/10	18.33	--	18.52
NOTE: -- Unable to access monitoring point.			

Based on the gauging data, the water table dropped approximately 1 ft during the monitoring period. The wells will continue to be gauged during future site visits.

4. AIR DISCHARGE MONITORING

YEC personnel collected grab air samples from the system effluent using Tedlar bags and submitted the samples to Alpha Analytical. The samples were analyzed for volatile organic compounds using U.S. Environmental Protection Agency Method TO-15. PCE, TCE, and *cis*-1,2-DCE were detected at the following concentrations.



Date	DCE Conc. ¹ (mg/m ³)	TCE Conc. ¹ (mg/m ³)	PCE Conc. ¹ (mg/m ³)
12/28/10	0.015	0.041	0.318
NOTE: ND = Not Detected J = Analyte detected below detection limits. Units = mg/m ³			

Analytical results are summarized in Table 2 and the laboratory data reports are presented in Attachment B. A summary of the field monitoring and laboratory air discharge analytical results are presented as Table 3.

Based on the effluent sampling results, a total of 0.79 lbs of PCE has been discharged during Quarter No. 4 for a total of 43.92 lbs for the year 2010 toward the permitted annual discharge limit of 270 lbs. A total of 0.10 lb of TCE has been discharged during Quarter No. 4 for a total of 1.44 lbs for the year 2010 toward the permitted annual discharge limit of 120 lbs. No *cis*-1,2-DCE was discharged during the reporting period (the annual discharge limit is 5,510 lbs).

6. CONCLUSIONS AND RECOMMENDATIONS

Based on the data collected from the SVE system during this reporting period, EA recommends continued operation of the SVE system.

Please do not hesitate to contact me at 315-431-4610 with any questions you might have regarding this report.

Sincerely,

EA SCIENCE AND
TECHNOLOGY, INC.

Donald F. Conan, P.E.
Project Manager

DFC/drs

Enclosures

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

SVE PILOT TEST STARTUP																								
9/18/2002	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0
12/16/2002	2153	294	645	98%	100	50	36.5	10	560	200	253	28	92	48.4	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0
3/29/2005	16217	833	264	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	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	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	0

Notes

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

— = measurement not recorded or not applicable.

⁽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 Dräger tube of 10-500 ppm range

scfm = standard cubic feet per minute

cfm = cubic feet per minute

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

12/8/2005	2918	647	647	100%	50	50	79	29	22.2	5.0	235	—	113.5	7.2	2.0	227	96.7	6.8	2	212	79.8	0.1	0.0
1/6/2006	3614	696	696	100%	50	75	120	42	2.7	2.0	245	—	82	32.5	4.0	280	83.9	19.0	2.0	265	77.5	5.8	0.0
2/6/2006	4332	744	718	100%	75	75	80	25	16.3	3.0	292	—	78	3.6	2.0	333	90.9	0.0	0.0	322	77	0.0	0.0
3/14/2006	5200	868	868	100%	75	75	188	49	12.9	2.0	212	—	132.8	5.5	5.0	287	135.6	0.0	0.0	232	115.1	0.0	0.0
4/12/2006	5895	695	695	100%	75	75	115	47	14.1	2.0	259	—	152.1	6.1	6.0	249	153.2	0.0	0.0	271	135.1	0.0	0.0
5/4/2006	6420	525	525	100%	50	75	189	51	17.9	2.0	199	—	145.2	7.8	5.0	186	136.1	0.1	0.0	214	117.8	0.0	0.0
6/12/2006	7354	934	934	100%	50	100	156	53	5.5	4.0	216	—	141	7.9	9.0	270	134	4.1	3.0	253	116	0.0	0.0
7/12/2006	8074	720	720	100%	50	100	163	54	8.1	2.0	191	—	146	8.3	8.0	210	145	8.8	10.0	196	134	0.0	0.0
8/7/2006	8696	622	622	100%	50	100	136	54	11.3	4.0	201	—	148.7	8.7	7.5	239	135.6	2.0	0.0	210	118.3	0.0	0.0
9/21/2006	9781	1085	1085	100%	50	100	124.5	53	8.9	4.0	227	—	127	7.7	9.0	143	106.9	9.7	7.0	203	99.2	2.1	0.0
10/18/2006	10417	636	636	100%	50	100	130	54	1.0	4.0	231	—	154.8	6.0	8.0	154	130.3	0.0	0.0	236	131.1	0.0	0.0
11/29/2006	11425	1008	1008	100%	50	100	130	52	0.6	1.0	193.5	—	138.8	1.6	4.0	226	137.8	0.0	0.0	202	118.0	0.0	0.0
12/21/2006	11953	528	528	100%	50	100	132	54	0.1	1.0	178	—	107.8	4.6	3.0	254	107.4	0.0	0.0	210	93.3	0.0	0.0
1/26/2007	12820	867	867	100%	25	100	156	80	0.0	0.0	142.5	—	135.0	0.4	4.0	123	124.0	0.0	0.0	142	102.3	0.0	0.0
3/19/2007	13296	1248	476	38%	25	100	162.5	80	0.2	2.0	135	—	140.7	7.3	5.0	215	110.1	2.4	0.0	172	120.0	0.0	0.0
4/27/2007	13964	936	668	71%	25	100	218.0	88	0.0	15.0	126	—	180.2	51.7	20.0	149	69.1	0.0	0.0	125	66.8	0.0	0.0
5/24/2007	13968	648	4	1%	25	75	135	84	15.2	1.8	100	—	127	108.0	35.0	181	123	0.7	0.0	170	106	0.0	0.0
6/21/2007	13984	672	16	2%	25	100	232	40	1.8	35.0	130.5	—	107	61.1	38.0	228	107	1.7	0.0	199	89	0.1	0.0
7/24/2007	14775	792	792	100%	50	100	75	29	13.2	2.0	205	—	132.6	3.5	3.0	202	140.5	1.9	0.0	194	138.4	0.0	0.0
8/28/2007	15615	840	840	100%	50	100	85.5	20	16.3	2.0	232	—	139.2	2.7	0.0	190	144.5	3.5	0.0	184	129.1	0.0	0.0
9/18/2007	16120	504	504	100%	50	100	99.2	28	11.7	2.0	214.5	—	138.5	5.2	0.0	184	16.8	1.4	2.0	164	129.8	0.0	0.0
10/31/2007	17151	1032	1032	100%	50	100	80	25	9.9	2.0	216	—	111.9	1.1	0.0	206	118.4	0.0	0.0	231	104.7	0.0	0.0
11/28/2007	17825	672	674	100%	50	100	79	27	9.5	1.0	211	—	117	0.4	0.0	247	116	0.0	0.0	213	110	0.0	0.0
1/4/2008	18714	888	889	100%	50	100	102.4	28	7.0	0.0	268	—	110	0.0	0.0	318	116	0.0	0.0	243	96	0.0	0.0
1/23/2008	19171	456	457	100%	50	100	114	36	6.6	0.0	222	—	112	0.6	0.0	266	126	0.0	0.0	192	108	0.0	0.0
2/28/2008	19269	864	98	11%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4/29/2008	19441	1464	172	12%	50	100	129	41	0.0	0.0	230	—	121	3.7	0.0	246	112	0.0	0.0	206	99	0.0	0.0
5/23/2008	20014	576	573	99%	75	100	90	33	10.4	1.0	223	17	126	0.5	1.0	312	138	3.5	0.0	259	115	0.0	0.0
6/26/2008	20832	816	818	100%	75	100	98	34	9.3	2.0	213	18	143	2.1	0.0	304	155	4.4	0.0	202	138	2.4	0.0
7/28/2008	21601	768	769	100%	75	100	91	30	10.8	0.0	237	18	148	1.8	0.0	280	154	0.8	0.0	202	138	2.8	0.0
8/28/2008	22345	744	744	100%	75	100	89	31	11.6	2.0	221	17	153	2.4	0.0	238	157	1.3	0.0	191	135	1.9	0.0
9/25/2008	23015	672	670	100%	75	100	110	33	10.8	0.0	245	18	136	0.9	0.0	244	138	0.0	0.0	215	119	0.0	0.0
10/31/2008	23880	864	865	100%	75	100	102	32	7.3	0.0	250	18	125	0.2	0.0	262	128	0.0	0.0	264	113	0.0	0.0
11/24/2008	24456	576	576	100%	75	100	112	32	4.8	0.0	242	20	116	0.0	0.0	251	119	0.0	0.0	254	104	0.0	0.0
12/22/2008	25129	672	673	100%	75	100	72	19	7.6	0.0	235	10	104	1.9	0.0	230	100	0.5	0.0	176	82	0.3	0.0
1/26/2009	25970	840	841	100%	75	100	111	31	5.7	0.0	243	18	113	1.6	0.0	270	114	1.1	0.0	278	104	0.6	0.0
2/26/2009	26374	744	404	54%	75	100	108	23	44.8	0.0	235	18	111	13.1	0.0	268	114	0.0	0.0	290	82	0.0	0.0
3/26/2009	27046	672	672	100%	75	100	100	31	6.2	0.0	248	18	128	4.8	0.0	265	129	2.9	0.0	268	114	1.3	0.0
4/28/2009	27838	792	792	100%	75	100	89	31	6.0	0.0	257	18	142	1.6	0.0	256	135	2.7	0.0	286	118	1.1	0.0
5/18/2009	28317	480	479	100%	75	100	100	32	8.3	0.0	252	18	142	2.4	0.0	280	129	3.8	0.0	271	125	2.0	0.0
6/23/2009	29181	864	864	100%	75	100	91	30	0.0	0.0	241	19	131	0.0	0.0	240	152	1.0	0.0	272	135	1.8	0.0
9/22/2009	31365	2184	2184	100%	75	100	93	31	10.0	0.0	232	20	129	5.3	0.0	264	154	4.3	0.0	200	135	4.0	0.0
12/21/2009	33527	2160	2162	100%	25	100	157	70	6.1	0.0	184	9	149.5	4.0	0.0	145	151	6.3	0.0	126	123	0.0	0.0
3/31/2010	35169	2400	1642	68%	25 / 75	100	100	82	55.8	0.0	255	18	103	20.5	15.0	250	85.2	4.4	0.0	285	78.7	0.0	0.0
6/28/2010	37303	2136	2134	100%	75	100	170	24	7.9	NA	215	20	98.2	1.6	0.0	236	173	2.9	0.0	283	154	4.4	0.0
9/27/2010	39486	2184	2183	100%	75	100	80	21	145.0	NA	275	21	141.4	42.4	NA	280	142	19.3	0.0	275	126	8.8	0.0
12/28/2010	40702	2208	1216	55%	75	100	90	25	51.0	NA	275	18	103	13.7	NA	285	73.7	0.9	NA	300	45.5	0.1	NA

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

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	--	--	--

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)
12/8/2005	ND (1)	ND (1)	ND (1)
1/6/2006	ND (1)	ND (1)	ND (1)
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

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

Date	cis-1,2-Dichloroethene	Tetrachloroethene (PCE)	Trichloroethene
3/14/2006	ND (1)	ND (1)	ND (1)
4/12/2006	ND (1)	0.6J	ND (1)
5/4/2006	ND (1)	ND (1)	ND (1)
6/12/2006	ND (1)	ND (1)	ND (1)
7/12/2005	0.6 J	ND (1)	ND (1)
8/7/2006	ND (1)	1	ND (1)
9/21/2006	0.4 J	2	0.8 J
10/18/2006	No sample collected		
11/29/2006	ND (1)	0.9J	ND (1)
12/28/2006	ND (1)	ND (1)	ND (1)
(sample collected 12/21/06 lost due to tedlar bag leak; replacement sample collected 12/28/06)			
1/26/2007	ND (1)	ND (1)	ND (1)
3/19/2007	ND (1)	ND (1)	ND (1)
(sample collected 3/12/07 following SVE system repair)			
4/27/2007	ND (1)	ND (1)	ND (1)
5/24/2007	ND (1)	ND (1)	ND (1)
6/21/2007	ND (1)	ND (1)	ND (1)
7/24/2007	ND (1)	0.22 J	ND (1)
8/28/2007	0.29 J	0.35 J	ND (1)
9/18/2007	ND (1)	ND (1)	ND (1)
10/31/2007	ND (1)	ND (1)	ND (1)
11/28/2007	ND (1)	ND (1)	ND (1)
1/4/2008	ND (1)	ND (1)	ND (1)
1/23/2008	ND (1)	ND (1)	ND (1)
2/28/2008	--	--	--
4/29/2008	ND (1)	ND (1)	ND (1)
5/23/2008	0.22 J	ND (1)	1.2
6/26/2008	0.24 J	10	1.3
7/28/2008	0.25 J	11	0.49 J
8/28/2008	0.22	13.6	0.48
9/25/2008	0.14	9.4	0.36
10/31/2008	0.1	4	0.17
11/24/2008	0.06	2.3	0.13
12/22/2008	0.03	1.2	0.06
1/26/2009	0.07	2.3	0.14
2/26/2009	0.005	0.1	0.01
3/26/2009	0.11	2.9	0.25
4/28/2009	0.08	3.3	0.21
5/18/2009	0.1	6.1	0.35
6/23/2009	0.19	18.2	0.44
9/22/2009	0.11	5.36	0.13
12/21/2009	0.09	4.82	0.38
12/21/2009	0.09	4.82	0.38
3/31/2010	0.02	0.69	0.04
6/28/2010	0.197	14.1	0.306
9/27/2010	0.122	4.18	0.24
12/28/2010	0.015	0.318	0.041
	J = Analyte detected below quantitation limits.		

Notes:

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

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

-- = sample not collected

J = Estimated Value

J = Analyte detected below quantitation limits.

mg/m³ = milligrams per cubic meter

TABLE 3
AIR DISCHARGE MONITORING
NATIONAL HEATSET PRINTING
1 ADAMS BLVD., FARMINGDALE, NY

SVE PILOT TEST STARTUP															
9/18/2002															
9/30/2002	290	—	0	12	—	—	—	—	—	—	—	—	—	—	—
10/14/2002	—	—	0	14	—	—	—	—	—	—	—	—	—	—	—
11/19/2002	290	—	0	36	—	—	—	—	—	—	—	—	—	—	—
12/16/2002	340	—	0	27	ND (5)	ND (5)	ND (5)	—	—	0.00	0.00	0.00	0.00	0.00	0.00
1/13/2003	45	0	—	28	—	—	—	0.0000	0.00	—	—	—	—	—	—
1/21/2003	220	—	0	8	—	—	—	—	—	—	—	—	—	—	—
2/10/2003	258	10	3.2	20	8.0	6.0	ND (5)	0.0654	31.40	0.008	3.71	0.006	2.78	0.00	0.00
3/5/2003	305	—	0	23	—	—	—	—	—	—	—	—	—	—	—
3/18/2003	282	0	0	13	—	—	—	0.0000	0.00	—	—	—	—	—	—
4/29/2003	287	0	0.6	42	—	—	—	0.0000	0.00	—	—	—	—	—	—
5/13/2003	245	0	0.6	14	5.0	ND (1)	ND (1)	0.0000	0.00	0.005	1.54	0.00	0.00	0.00	0.00
6/30/2003	240	100	29.8	48	—	—	—	0.3043	350.56	—	—	—	—	—	—
7/22/2003	222	—	0	12	ND (1)	ND (1)	ND (1)	—	—	0.00	0.00	0.00	0.00	0.00	0.00
8/26/2003	232	10	35.6	35	29.0	3.6	ND (5)	0.0588	49.42	0.025	21.17	0.003	2.63	0.00	0.00
9/23/2003	210	0	0	28	ND (5)	ND (5)	ND (5)	0.0000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
10/21/2003	225	0	0	28	ND (5)	ND (5)	ND (5)	0.0000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
11/24/2003	205	0	0	34	—	—	—	0.0000	0.00	—	—	—	—	—	—
2003 Totals:								431.38		26.42		5.41		0.00	
1/6/2004	200	0	0	43	—	—	—	0.0000	0.00	—	—	—	—	—	—
2/9/2004	235	0	0	34	ND (5)	ND (5)	10	0.0000	0.00	0.000	0.00	0.000	0.00	0.009	7.18
3/30/2004	160	5	24	50	77	1J	2J	0.0203	24.34	0.046	55.38	0.001	0.72	0.001	1.44
4/29/2004	255	0	0	30	10	ND (5)	ND (5)	0.0000	0.00	0.010	6.88	0.001	0.69	0.002	1.38
5/24/2004	198	0	0	25	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000	0.00
6/22/2004	210	0	0	29	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000	0.00
7/28/2004	181	0	3.1	36	ND (5)	ND (5)	ND (5)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000	0.00
8/12/2004	187	0	0.1	15	—	—	—	0.0000	0.00	—	—	—	—	—	—
9/29/2004	205	—	0	48	ND (1)	ND (1)	ND (1)	—	—	0.000	0.00	0.000	0.00	0.000	0.00
10/20/2004	230	0	0	21	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000	0.00
11/17/2004	173	0	0	28	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000	0.00
12/22/2004	131	0	0	35	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.000	0.00	0.000	0.00	0.000	0.00
2004 Totals:								24.34		62.26		1.41		10.00	

Notes: — = Measurement not recorded

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

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

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

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

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

Where: C = degrees centigrade, assumed to be 25

J = Estimated Value

hr = hours

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

cfm = cubic feet per minute

mg/cu. m = milligrams per cubic meter

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

lb = pounds

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

TABLE 3
AIR DISCHARGE MONITORING
NATIONAL HEATSET PRINTING
1 ADAMS BLVD., FARMINGDALE, NY

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
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
2/6/2006	322	0	0	30	1	ND (1)	ND (1)	0.0000	0.00	0.0012	0.87	0.0000	0.00	0.000	0.00
3/14/2006	232	0	0	36	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.000	0.00
4/12/2006	271	0	0	29	0.6J	ND (1)	ND (1)	0.0000	0.00	0.0006	0.42	0.0000	0.00	0.000	0.00
5/4/2006	214	0	0	22	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.000	0.00
6/12/2006	253	0	0	39	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.000	0.00
7/12/2006	196	0	0	30	ND (1)	ND (1)	0.6 J	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.001	0.38
8/7/2006	210	0	0	26	1	ND (1)	ND (1)	0.0000	0.00	0.0008	0.49	0.0000	0.00	0.000	0.00
9/21/2006	203	0	2.1	45	2	0.8 J	0.4 J	0.0000	0.00	0.0015	1.64	0.0006	0.66	0.0003	0.33
10/18/2006	236	0	0	27	—	—	—	0.0000	0.00	—	—	—	—	—	—
11/29/2006	202	0	0	42	0.9J	ND (1)	ND (1)	0.0000	0.00	0.0007	0.69	0.0000	0.00	0.0000	0.00
12/21/2006	210	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
2006 Totals:									0.00		4.11		0.66		0.71
1/26/2007	142	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
3/19/2007	172	0	0	20	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.000	0.00
4/27/2007	125	0	0	28	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.000	0.00
5/24/2007	170	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

Notes: — = Measurement not recorded

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

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

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

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

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

Where: C = degrees centigrade, assumed to be 25

J = Estimated Value

hr = hours

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

cfm = cubic feet per minute

mg/cu. m = milligrams per cubic meter

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

lb = pounds

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

TABLE 3
AIR DISCHARGE MONITORING
NATIONAL HEATSET PRINTING
1 ADAMS BLVD., FARMINGDALE, NY

6/21/2007	199	0	0.1	28	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.000	0.00
7/24/2007	194	0	0	33	0.22 J	ND (1)	ND (1)	0.0000	0.00	0.0002	0.13	0.0000	0.00	0.000	0.00
8/28/2007	129	0	0	35	0.35 J	ND (1)	0.29 J	0.0000	0.00	0.0002	0.14	0.0000	0.00	0.0001	0.12
9/18/2007	164	0	0	21	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.0002	0.00	0.0000	0.00	0.000	0.00
10/31/2007	231	0	0	43	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.000	0.00
11/28/2007	213	0	0	28	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.000	0.00
1/4/2008	243	0	0	37	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.000	0.00
2007 Totals:									0.00		0.27		0.00		0.12
1/23/2008	192	0	0	19	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.000	0.00
2/28/2008	—	—	—	36	—	—	—	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.000	0.00
4/29/2008	206	0	0	61	ND (1)	ND (1)	ND (1)	0.0000	0.00	0.0000	0.00	0.0000	0.00	0.000	0.00
5/23/2008	259	0	0	24	ND (1)	1.2	0.22 J	0.0000	0.00	0.0000	0.00	0.0012	0.67	0.000	0.00
6/26/2008	202	0	2.4	34	10	1.3	0.24 J	0.0000	0.00	0.0076	6.18	0.0010	0.80	0.000	0.00
7/28/2008	202	0	2.8	32	11	0.49 J	0.25 J	0.0000	0.00	0.0083	6.40	0.0000	0.00	0.000	0.00
8/28/2008	191	0	1.9	31	13.6	0.48	0.22	0.0000	0.00	0.0097	7.25	0.0003	0.26	0.000	0.00
9/25/2008	215	0	0	28	9.4	0.36	0.14	0.0000	0.00	0.0076	5.09	0.0003	0.19	0.000	0.00
10/31/2008	264	0	0	36	4	0.17	0.1	0.0000	0.00	0.0040	3.42	0.0002	0.15	0.000	0.00
11/24/2008	254	0	0	24	2.3	0.13	0.06	0.0000	0.00	0.0022	1.26	0.0001	0.07	0.000	0.00
12/22/2008	176	0	0.3	28	1.2	0.06	0.03	0.0000	0.00	0.0008	0.53	0.0000	0.03	0.000	0.00
2007 Totals:											30.13		2.17		0.00
1/26/2009	278	0	0.6	35	2.3	0.14	0.07	0.0000	0.00	0.0024	2.01	0.0001	0.12	0.000	0.00
2/26/2009	290	0	0	31	0.1	0.01	0.005	0.0000	0.00	0.0001	0.08	0.0000	0.01	0.000	0.00
3/26/2009	268	0	1.3	28	2.9	0.25	0.11	0.0000	0.00	0.0029	1.96	0.0003	0.17	0.000	0.00
4/28/2009	286	0	1.1	33	3.3	0.21	0.08	0.0000	0.00	0.0035	2.80	0.0002	0.18	0.000	0.00
5/18/2009	271	0	2	20	6.1	0.35	0.1	0.0000	0.00	0.0062	2.97	0.0004	0.17	0.000	0.00
6/23/2009	272	0	1.8	36	18.2	0.44	0.19	0.0000	0.00	0.0186	16.04	0.0004	0.39	0.000	0.00
9/22/2009	200	0	4	91	5.36	0.13	0.11	0.0000	0.00	0.0040	8.78	0.0001	0.21	0.000	0.00
12/21/2009	126	0	0	90	4.82	0.38	0.09	0.0000	0.00	0.0023	4.92	0.0002	0.39	0.000	0.00
3/31/2010	285	0	0	100	0.69	0.04	0.02	0.0000	0.00	0.0007	1.77	0.0000	0.10	0.000	0.00
6/28/2010	283	0	4.4	89	14.1	0.306	0.197	0.0000	0.00	0.0150	31.95	0.0003	0.69	0.000	0.00
9/27/2010	275	0	8.8	91	4.18	0.24	0.122	0.0000	0.00	0.0043	9.41	0.0002	0.54	0.000	0.00
12/28/2010	300	NA	0.1	92	0.318	0.041	0.015	NA	NA	0.0004	0.79	0.0000	0.10	0.000	0.00

1.44

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

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

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

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

cfm = cubic feet per minute

mg/cu. m = milligrams per cubic meter

lb = pounds

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

Attachment A

National Heatset Printing
1 Adams Boulevard, Farmingdale, New York
EA Engineering

Personnel: Peter Lawler Time: 1000
Weather: 32F, cloudy, windy Date: 12/28/2010

System Status:

Arrival: off
Departure: running
Run Timer Reading: 4070232
Electric Meter Reading: 16895; 00.41; 30.26; 0079

System Data:

Extraction Well F Gate Valve: 100 % Open
Dilution Valve: 75 % Open

Pre-Bleed Air (Extraction Well):

Flow: 90 CFM
Vacuum: 25 "H2O
PID Reading: 51 PPM
Draeger Tube: N/A PPM
Temperature: 58.4 °F

Post-Bleed Air (SVE Influent):

Flow: 275 CFM
Pressure: 18 "H2O via magnehelic
PID Reading: 13.7 PPM
Draeger Tube: N/A PPM
Temperature: 103.1 °F

Carbon Monitoring:

Mid: 0.9 PPM 285 CFM 73.7 Temp. (°F) N/A PPM (Drager) 9 "H2O
Effluent: 0.1 PPM 300 CFM 45.5 Temp. (°F) N/A PPM (Drager)

Carbon effluent sample collected & shipped to lab? Yes

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

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):	18.33	N/A	18.52	--	--	--	--	--	--	--	--	--	--	--	--
Vac. (" H2O):	--	--	--	1.1	0.4	0.25	0.25	0.15	0.1	0.2	0.1	0.04	N/A	N/A	N/A
PID (PPM):	--	--	--	--	--	--	0.0	0.0	0.0	0.0	0.0	0.0	N/A	N/A	N/A

Comments:

Draeger tubes no longer used in system check

Knockout tank empty upon arrival, system had power, reset breaker inside of SVE power box, and system restarted, appears to have lost power. Sensaphone non-functioning, keypad is partially non-responsive, called troubleshooting, determined keypad has a short, unit will be sent in for repair. System heater adjusted from 50F to 55F. VP-15 not accessible, VP-13,14 & MW-E covered by boxes.

Attachment B



ANALYTICAL REPORT

Lab Number:	L1020589
Client:	EA Engineering, Science and Tech 6712 Brooklawn Parkway Suite 104 Syracuse, NY 13211
ATTN:	Don Conan
Phone:	(315) 491-6649
Project Name:	NATIONAL HEATSET
Project Number:	NATIONAL HEATSET
Report Date:	01/05/11

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NY (11627), CT (PH-0141), NH (2206), NJ (MA015), RI (LAO00299), ME (MA0030), PA (Registration #68-02089), LA NELAC (03090), FL NELAC (E87814), US Army Corps of Engineers.

320 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.alphalab.com



Project Name: NATIONAL HEATSET
Project Number: NATIONAL HEATSET

Lab Number: L1020589
Report Date: 01/05/11

Alpha Sample ID	Client ID	Sample Location	Collection Date/Time
L1020589-01	SVE EFFLUENT	FARMINGDALE, NY	12/28/10 13:00

Project Name: NATIONAL HEATSET

Lab Number: L1020589

Project Number: NATIONAL HEATSET

Report Date: 01/05/11

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet all of the requirements of NELAC, for all NELAC accredited parameters. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

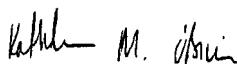
For additional information, please contact Client Services at 800-624-9220.

Volatile Organics in Air

L1020589-01: Sample was transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:



Kathleen O'Brien

Title: Technical Director/Representative

Date: 01/05/11

AIR

Project Name: NATIONAL HEATSET**Lab Number:** L1020589**Project Number:** NATIONAL HEATSET**Report Date:** 01/05/11**SAMPLE RESULTS**

Lab ID: L1020589-01
 Client ID: SVE EFFLUENT
 Sample Location: FARMINGDALE, NY
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 12/30/10 09:00
 Analyst: BS

Date Collected: 12/28/10 13:00
 Date Received: 12/29/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.988	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.776	--		1
Chloroethane	ND	0.200	--	ND	0.527	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Methylene chloride	1.32	1.00	--	4.57	3.47	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
cis-1,2-Dichloroethene	3.78	0.200	--	15.0	0.792	--		1
Chloroform	ND	0.200	--	ND	0.976	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
1,1,1-Trichloroethane	0.699	0.200	--	3.81	1.09	--		1
Benzene	ND	0.200	--	ND	0.638	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Trichloroethene	7.61	0.200	--	40.9	1.07	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.753	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1



Project Name: NATIONAL HEATSET**Lab Number:** L1020589**Project Number:** NATIONAL HEATSET**Report Date:** 01/05/11**SAMPLE RESULTS**

Lab ID: L1020589-01
 Client ID: SVE EFFLUENT
 Sample Location: FARMINGDALE, NY

Date Collected: 12/28/10 13:00
 Date Received: 12/29/10
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab								
Tetrachloroethene	46.9	0.200	--	318	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.920	--		1
Ethylbenzene	ND	0.200	--	ND	0.868	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Styrene	ND	0.200	--	ND	0.851	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.868	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
Benzyl chloride	ND	0.200	--	ND	1.03	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	93		60-140



Project Name: NATIONAL HEATSET

Lab Number: L1020589

Project Number: NATIONAL HEATSET

Report Date: 01/05/11

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 12/29/10 15:32

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01 Batch: WG449394-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.988	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
Bromomethane	ND	0.200	--	ND	0.776	--		1
Chloroethane	ND	0.200	--	ND	0.527	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Methylene chloride	ND	1.00	--	ND	3.47	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.792	--		1
Chloroform	ND	0.200	--	ND	0.976	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.638	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.907	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.753	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1



Project Name: NATIONAL HEATSET

Lab Number: L1020589

Project Number: NATIONAL HEATSET

Report Date: 01/05/11

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 12/29/10 15:32

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air (Low Level) - Mansfield Lab for sample(s): 01 Batch: WG449394-4								
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.920	--		1
Ethylbenzene	ND	0.200	--	ND	0.868	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Styrene	ND	0.200	--	ND	0.851	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.868	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.982	--		1
Benzyl chloride	ND	0.200	--	ND	1.03	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Lab Control Sample Analysis

Batch Quality Control

Project Name: NATIONAL HEATSET

Lab Number: L1020589

Project Number: NATIONAL HEATSET

Report Date: 01/05/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 Batch: WG449394-3								
Chlorodifluoromethane	96		-		70-130	-		
Propylene	93		-		70-130	-		
Propane	85		-		70-130	-		
Dichlorodifluoromethane	104		-		70-130	-		
Chloromethane	94		-		70-130	-		
1,2-Dichloro-1,1,2,2-tetrafluoroethane	106		-		70-130	-		
Methanol	83		-		70-130	-		
Vinyl chloride	97		-		70-130	-		
1,3-Butadiene	99		-		70-130	-		
Butane	96		-		70-130	-		
Bromomethane	96		-		70-130	-		
Chloroethane	99		-		70-130	-		
Ethyl Alcohol	97		-		70-130	-		
Dichlorofluoromethane	98		-		70-130	-		
Vinyl bromide	105		-		70-130	-		
Acrolein	100		-		70-130	-		
Acetone	103		-		70-130	-		
Acetonitrile	101		-		70-130	-		
Trichlorofluoromethane	109		-		70-130	-		
iso-Propyl Alcohol	108		-		70-130	-		
Acrylonitrile	104		-		70-130	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: NATIONAL HEATSET

Lab Number: L1020589

Project Number: NATIONAL HEATSET

Report Date: 01/05/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 Batch: WG449394-3								
Pentane	94		-		70-130	-		
Ethyl ether	93		-		70-130	-		
1,1-Dichloroethene	104		-		70-130	-		
tert-Butyl Alcohol	106		-		70-130	-		
Methylene chloride	93		-		70-130	-		
3-Chloropropene	95		-		70-130	-		
Carbon disulfide	91		-		70-130	-		
1,1,2-Trichloro-1,2,2-Trifluoroethane	107		-		70-130	-		
trans-1,2-Dichloroethene	99		-		70-130	-		
1,1-Dichloroethane	101		-		70-130	-		
Methyl tert butyl ether	110		-		70-130	-		
Vinyl acetate	113		-		70-130	-		
2-Butanone	97		-		70-130	-		
cis-1,2-Dichloroethene	107		-		70-130	-		
Ethyl Acetate	113		-		70-130	-		
Chloroform	110		-		70-130	-		
Tetrahydrofuran	98		-		70-130	-		
2,2-Dichloropropane	104		-		70-130	-		
1,2-Dichloroethane	106		-		70-130	-		
n-Hexane	84		-		70-130	-		
Isopropyl Ether	97		-		70-130	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: NATIONAL HEATSET

Lab Number: L1020589

Project Number: NATIONAL HEATSET

Report Date: 01/05/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 Batch: WG449394-3								
Ethyl-Tert-Butyl-Ether	98		-		70-130	-		
1,1,1-Trichloroethane	103		-		70-130	-		
1,1-Dichloropropene	98		-		70-130	-		
Benzene	97		-		70-130	-		
Carbon tetrachloride	103		-		70-130	-		
Cyclohexane	89		-		70-130	-		
Tertiary-Amyl Methyl Ether	102		-		70-130	-		
Dibromomethane	97		-		70-130	-		
1,2-Dichloropropane	97		-		70-130	-		
Bromodichloromethane	98		-		70-130	-		
1,4-Dioxane	102		-		70-130	-		
Trichloroethene	101		-		70-130	-		
2,2,4-Trimethylpentane	93		-		70-130	-		
Heptane	89		-		70-130	-		
2,4,4-Trimethyl-1-Pentene	97		-		70-130	-		
cis-1,3-Dichloropropene	105		-		70-130	-		
4-Methyl-2-pentanone	96		-		70-130	-		
2,4,4-Trimethyl-2-Pentene	103		-		70-130	-		
trans-1,3-Dichloropropene	93		-		70-130	-		
1,1,2-Trichloroethane	101		-		70-130	-		
Toluene	106		-		70-130	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: NATIONAL HEATSET

Lab Number: L1020589

Project Number: NATIONAL HEATSET

Report Date: 01/05/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 Batch: WG449394-3								
1,3-Dichloropropane	106		-		70-130	-		
2-Hexanone	108		-		70-130	-		
Dibromochloromethane	111		-		70-130	-		
1,2-Dibromoethane	112		-		70-130	-		
Butyl Acetate	104		-		70-130	-		
Octane	108		-		70-130	-		
Tetrachloroethene	111		-		70-130	-		
1,1,1,2-Tetrachloroethane	112		-		70-130	-		
Chlorobenzene	114		-		70-130	-		
Ethylbenzene	114		-		70-130	-		
p/m-Xylene	119		-		70-130	-		
Bromoform	117		-		70-130	-		
Styrene	124		-		70-130	-		
1,1,2,2-Tetrachloroethane	119		-		70-130	-		
o-Xylene	119		-		70-130	-		
1,2,3-Trichloropropane	113		-		70-130	-		
Nonane (C9)	108		-		70-130	-		
Isopropylbenzene	123		-		70-130	-		
Bromobenzene	114		-		70-130	-		
o-Chlorotoluene	119		-		70-130	-		
n-Propylbenzene	124		-		70-130	-		

Lab Control Sample Analysis Batch Quality Control

Project Name: NATIONAL HEATSET

Lab Number: L1020589

Project Number: NATIONAL HEATSET

Report Date: 01/05/11

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 Batch: WG449394-3								
p-Chlorotoluene	114		-		70-130	-		
4-Ethyltoluene	117		-		70-130	-		
1,3,5-Trimethylbenzene	117		-		70-130	-		
tert-Butylbenzene	120		-		70-130	-		
1,2,4-Trimethylbenzene	123		-		70-130	-		
Decane (C10)	112		-		70-130	-		
Benzyl chloride	112		-		70-130	-		
1,3-Dichlorobenzene	118		-		70-130	-		
1,4-Dichlorobenzene	117		-		70-130	-		
sec-Butylbenzene	117		-		70-130	-		
p-Isopropyltoluene	113		-		70-130	-		
1,2-Dichlorobenzene	118		-		70-130	-		
n-Butylbenzene	126		-		70-130	-		
1,2-Dibromo-3-chloropropane	118		-		70-130	-		
Undecane	118		-		70-130	-		
Dodecane (C12)	116		-		70-130	-		
1,2,4-Trichlorobenzene	124		-		70-130	-		
Naphthalene	111		-		70-130	-		
1,2,3-Trichlorobenzene	121		-		70-130	-		
Hexachlorobutadiene	121		-		70-130	-		

Lab Duplicate Analysis **Batch Quality Control**

Project Name: NATIONAL HEATSET

Project Number: NATIONAL HEATSE

Lab Number: L1020589

Report Date: 01/05/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
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Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG449394-5 QC Sample: L1020475-04 Client ID: DUP Sample

Dichlorodifluoromethane	0.553	0.579	ppbV	5		25
Chloromethane	0.545	0.535	ppbV	2		25
Freon-114	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Trichlorofluoromethane	0.273	0.303	ppbV	10		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
Methylene chloride	8.67	8.96	ppbV	3		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	ND	ND	ppbV	NC		25
Benzene	0.202	0.223	ppbV	10		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: NATIONAL HEATSET

Project Number: NATIONAL HEATSE

Lab Number: L1020589

Report Date: 01/05/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG449394-5 QC Sample: L1020475-04 Client ID: DUP Sample					
Trichloroethene	ND	ND	ppbV	NC	25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC	25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC	25
1,1,2-Trichloroethane	ND	ND	ppbV	NC	25
Toluene	0.732	0.893	ppbV	20	25
1,2-Dibromoethane	ND	ND	ppbV	NC	25
Tetrachloroethene	ND	ND	ppbV	NC	25
Chlorobenzene	ND	ND	ppbV	NC	25
Ethylbenzene	ND	ND	ppbV	NC	25
p/m-Xylene	ND	ND	ppbV	NC	25
Styrene	ND	ND	ppbV	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC	25
o-Xylene	ND	ND	ppbV	NC	25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC	25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC	25
1,3-Dichlorobenzene	ND	ND	ppbV	NC	25
1,4-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2-Dichlorobenzene	ND	ND	ppbV	NC	25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC	25

Lab Duplicate Analysis
Batch Quality Control

Project Name: NATIONAL HEATSET
Project Number: NATIONAL HEATSE

Lab Number: L1020589
Report Date: 01/05/11

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Volatile Organics in Air (Low Level) - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG449394-5 QC Sample: L1020475-04 Client ID: DUP Sample					
Hexachlorobutadiene	ND	ND	ppbV	NC	25

Project Name: NATIONAL HEATSET

Lab Number: L1020589

Project Number: NATIONAL HEATSET

Report Date: 01/05/11

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: NA

Cooler Information Custody Seal**Cooler**

A Present/Intact

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1020589-01A	Tedlar Bag 3 liter-Polypropylene	A	NA		Y	Present/Intact	TO15-LL(30)

*Values in parentheses indicate holding time in days

Project Name: NATIONAL HEATSET
Project Number: NATIONAL HEATSET

Lab Number: L1020589
Report Date: 01/05/11

GLOSSARY

Acronyms

- EPA - Environmental Protection Agency.
- LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
- LCSD - Laboratory Control Sample Duplicate: Refer to LCS.
- MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
- MSD - Matrix Spike Sample Duplicate: Refer to MS.
- NA - Not Applicable.
- NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
- NI - Not Ignitable.
- RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
- RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensation Product".
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than five times (5x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The RPD between the results for the two columns exceeds the method-specified criteria; however, the lower value has been reported due to obvious interference.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.

Report Format: Data Usability Report



Project Name: NATIONAL HEATSET

Lab Number: L1020589

Project Number: NATIONAL HEATSET

Report Date: 01/05/11

Data Qualifiers

RE - Analytical results are from sample re-extraction.

J - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the reporting limit (RL) for the sample.

Project Name: NATIONAL HEATSET
Project Number: NATIONAL HEATSET

Lab Number: L1020589
Report Date: 01/05/11

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Certificate/Approval Program Summary

Last revised July 19, 2010 – Mansfield Facility

The following list includes only those analytes/methods for which certification/approval is currently held. For a complete listing of analytes for the referenced methods, please contact your Alpha Customer Service Representative.

Connecticut Department of Public Health Certificate/Lab ID: PH-0141.

Wastewater/Non-Potable Water (Inorganic Parameters: pH, Turbidity, Conductivity, Alkalinity, Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Strontium, Thallium, Tin, Vanadium, Zinc, Total Residue (Solids), Total Suspended Solids (non-filterable), Total Cyanide. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Acid Extractables, Benzidines, Phthalate Esters, Nitrosamines, Nitroaromatics & Isophorone, PAHs, Haloethers, Chlorinated Hydrocarbons, Volatile Organics.)

Solid Waste/Soil (Inorganic Parameters: pH, Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Hexavalent Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Molybdenum, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc, Total Organic Carbon, Total Cyanide, Corrosivity, TCLP 1311. Organic Parameters: PCBs, Organochlorine Pesticides, Technical Chlordane, Toxaphene, Volatile Organics, Acid Extractables, Benzidines, Phthalates, Nitrosamines, Nitroaromatics & Cyclic Ketones, PAHs, Haloethers, Chlorinated Hydrocarbons.)

Florida Department of Health Certificate/Lab ID: E87814. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: SM2320B, EPA 120.1, SM2510B, EPA 245.1, EPA 150.1, EPA 160.2, SM2540D, EPA 335.2, SM2540G, EPA 180.1. Organic Parameters: EPA 625, 608.)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7470, 7471, 9045, 9014. Organic Parameters: EPA 8260, 8270, 8082, 8081.)

Air & Emissions (EPA TO-15.)

Louisiana Department of Environmental Quality Certificate/Lab ID: 03090. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: EPA 120.1, 150.1, 160.2, 180.1, 200.8, 245.1, 310.1, 335.2, 608, 625, 1631, 3010, 3015, 3020, 6020, 9010, 9014, 9040, SM2320B, 2510B, 2540D, 2540G, 4500CN-E, 4500H-B, Organic Parameters: EPA 3510, 3580, 3630, 3640, 3660, 3665, 5030, 8015 (mod), 3570, 8081, 8082, 8260, 8270,)

Solid & Chemical Materials (Inorganic Parameters: 6020, 7196, 7470, 7471, 7474, 9010, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015 (mod), EPA 3570, 1311, 3050, 3051, 3060, 3580, 3630, 3640, 3660, 3665, 5035, 8081, 8082, 8260, 8270.)

Biological Tissue (Inorganic Parameters: EPA 6020. Organic Parameters: EPA 3570, 3510, 3610, 3630, 3640, 8270.)

Massachusetts Department of Environmental Protection Certificate/Lab ID: M-MA030.

Non-Potable Water (Inorganic Parameters: SM4500H+B. Organic Parameters: EPA 624.)

New Hampshire Department of Environmental Services Certificate/Lab ID: 2206. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: EPA 200.8, 245.1, 1631E, 120.1, 150.1, 180.1, 310.1, 335.2, 160.2, SM2540D, 2540G, 4500CN-E, 4500H+B, 2320B, 2510B. Organic Parameters: EPA 625, 608.)

New Jersey Department of Environmental Protection Certificate/Lab ID: MA015. *NELAP Accredited.*

Non-Potable Water (Inorganic Parameters: SW-846 1312, 3010, 3020A, 3015, 6020, SM2320B, EPA 200.8, SM2540C, 2540D, 2540G, EPA 120.1, SM2510B, EPA 180.1, 245.1, 1631E, SW-846 9040B, 6020, 9010B, 9014 Organic Parameters: EPA 608, 625, SW-846 3510C, 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082 8260B, 8270C)

Solid & Chemical Materials (Inorganic Parameters: SW-846 6020, 9010B, 9014, 1311, 1312, 3050B, 3051, 3060A, 7196A, 7470A, 7471A, 9045C, 9060. Organic Parameters: SW-846 3580A, 5030B, 3035L, 5035H, 3630C, 3640A, 3660B, 3665A, 8081A, 8082, 8260B, 8270C, 3570, 8015B.)

Atmospheric Organic Parameters (EPA TO-15)

Biological Tissue (Inorganic Parameters: SW-846 6020 Organic Parameters: SW-846 8270C, 3510C, 3570, 3610B, 3630C, 3640A)

New York Department of Health Certificate/Lab ID: 11627. **NELAP Accredited.**

Non-Potable Water (Inorganic Parameters: EPA 310.1, SM2320B, EPA 365.2, 160.1, EPA 160.2, SM2540D, EPA 200.8, 6020, 1631E, 245.1, 335.2, 9014, 150.1, 9040B, 120.1, SM2510B, EPA 376.2, 180.1, 9010B. Organic Parameters: EPA 624, 8260B, 8270C, 608, 8081A, 625, 8082, 3510C, 3511, 5030B.)

Solid & Hazardous Waste (Inorganic Parameters: EPA 9040B, 9045C, SW-846 Ch7 Sec 7.3, EPA 6020, 7196A, 7471A, 7474, 9014, 9040B, 9045C, 9010B. Organic Parameters: EPA 8260B, 8270C, 8081A, DRO 8015B, 8082, 1311, 3050B, 3580, 3050B, 3035, 3570, 3051, 5035, 5030B.)

Air & Emissions (EPA TO-15.)

Rhode Island Department of Health Certificate/Lab ID: LAO00299. **NELAP Accredited via LA-DEQ.**

Refer to MA-DEP Certificate for Non-Potable Water.

Refer to LA-DEQ Certificate for Non-Potable Water.

Texas Commission of Environmental Quality Certificate/Lab ID: T104704419-08-TX. **NELAP Accredited.**

Solid & Chemical Materials (Inorganic Parameters: EPA 6020, 7470, 7471, 1311, 7196, 9014, 9040, 9045, 9060. Organic Parameters: EPA 8015, 8270, 8260, 8081, 8082.)

Air (Organic Parameters: EPA TO-15)

U.S. Army Corps of Engineers

Department of Defense Certificate/Lab ID: L2217.01.

Solid & Hazardous Waste (Inorganic Parameters: EPA 1311, 1312, 3051, 6020, 747A, 7474, 9045C, 9060, SM 2540G, ASTM D422-63. Organic Parameters: EPA 3580, 3570, 3540C, 5035, 8260B, 8270C, 8270 Alk-PAH, 8082, 8081A, 8015 (SHC), 8015 (DRO).

Air & Emissions (EPA TO-15.)

Analytes Not Accredited by NELAP

Certification is not available by NELAP for the following analytes: **8270C**: Biphenyl.



AIR ANALYSIS

PAGE 1 OF 1

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: EA Engineering
Address: 6712 Brooklawn Pkwy
Syracuse, NY 13211
Phone: (315) 877-7403

Fax:

Email: dconan@caest.com☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: National Huntzet
Project Location: Farmingdale, NY
Project #: _____
Project Manager: Don Conan
ALPHA Quote #: _____

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due:

Time:

Date Rec'd in Lab:

Report Information - Data Deliverables

☐ FAX☐ ADEx

Criteria Checker: _____

(Default based on Regulatory Criteria Indicated)

Other Formats: _____

☐ EMAIL (standard pdf report)☐ Additional Deliverables: _____

Report to: (if different than Project Manager) _____

ALPHA Job #: L1020589

Billing Information

☒ Same as Client info PO #: _____

Regulatory Requirements/Report Limits

State/Fed	Program	Criteria

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection						Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-14	TO-15	TO-15	APH	FIXED	TO-13	TO-4	Sample Comments (i.e. PID)
		Date	Start Time	End Time	Initial Vacuum	Final Vacuum														
20589.1	SVE Effluent	12-28-10	1300	1300	—	—	SV	PL	SL	—	—	1								PID = 0.1 ppm
																		</		

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)

SV = Soil Vapor/Landfill Gas/SVE

Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:

Date/Time

Received By:

Date/Time:

[Signature]
Red Ex

12-28-10 15:30
12/29/10 10:30

Ed Ex 8723746181
[Signature]

12-28-10 15:30
12/29/10 10:30