Shaw Environmental, Inc.

13 British American Boulevard
Latham, NY 12110-1405
518.783.1996
Fax 518.783.8397

March 9, 2004

Mr. Jeff Dyber, P.E.
Environmental Engineer 2
New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Eastern Remedial Action
625 Broadway
Albany, New York 12233

RE: National Heatset Printing
Operation & Maintenance Report, February 2004
1 Adams Boulevard
Farmingdale, New York
NYSDEC Site 1-52-140

Dear Mr. Dyber:

This letter provides an overview of the ongoing operation of the soil vapor extraction (SVE) system for the National Heatset Printing Site in Farmingdale, New York (**Figure 1**) for the reporting period including February 2004. A site visit was performed by Shaw Environmental and Infrastructure Engineering of New York, P.C. (Shaw) personnel on February 9, 2004 in accordance with our contract with the Department.

System Operation

Operation of SVE system began on September 17, 2002. The SVE system has been operational for approximately 70% of the reporting period. The system operational data is summarized in **Table 1** and is presented as **Appendix A**.

The SVE blower operated at a flow of approximately 172 cfm and a vacuum of 70 inches of water column as observed during the site visit. A flow of 121 cfm and a vacuum of 44 inches of water column were observed at the extraction well. The extraction well and dilution valves were both 50% open. Volatile organic compound (VOC) and tetrachloroethene (PCE) concentrations from the extraction well were observed to be 23.1 and 10 ppm, respectively. The positioning of the well extraction and dilution air valves will be modified based on continued monitoring of VOC concentrations.

No water was collected from the knockout vessel during this reporting period. A small quantity of water has been collected during the previous reporting periods and placed in an accumulation

drum for storage until the drum has been filled, at which time proper characterization and disposal procedures will be followed.

VOC concentrations of 29.8 ppm and a PCE concentration of 25 ppm were observed at the VGAC influent port during the site visit. VOC concentrations of 41.4 ppm and a PCE concentration of 25 ppm were observed at the VGAC mid sampling port. However, non-detect VOC and PCE concentrations were observed from the VGAC effluent sampling port during the site visit. A carbon change out will be scheduled during March 2004 to prevent the potential for breakthrough of the lag VGAC unit.

Monitoring Probes

A vacuum of 1.8 inches of water column was observed at vapor monitoring point VP-1, 0.05 inches of water column was observed at vapor monitoring point VP-2, and no vacuum was observed at VP-3 during the site visit. The vapor points will continue to be monitored during future site visits.

PCE Removal

The SVE system removed approximately 126 pounds of PCE from the extraction well during this reporting period and has removed approximately 2,283 pounds of PCE to date. A summary of the estimated PCE mass removal over time is presented in **Table 2**.

Air Discharge Monitoring

Shaw personnel collected a sample of the system effluent air for laboratory analyses during the site visit. The laboratory analysis revealed non-detect PCE and trichloroethene concentrations in the system effluent sample. However, cis-1,2-Dichloroethene was detected in the effluent sample at a concentration of 10 mg/m^3. Analytical results are summarized in **Table 3** and the laboratory report of analyses is presented as **Appendix B**.

Field monitoring of the system discharge conducted during the site visit indicated non-detect concentrations of PCE and total VOCs. A summary of the field monitoring and laboratory air discharge monitoring results is presented as **Table 4**.

Conclusions and Recommendations

Based on the data collected from the SVE system during this reporting period, Shaw recommends continued operation of the SVE system at 1 Adams Boulevard. As site conditions change, adjustments will be made to optimize the system operation.

Please do not hesitate to contact me at 518-783-1996 with any questions you might have regarding this report.

Sincerely,
Shaw E & I Engineering of New York, P.C.

John A. Skaarup
Project Engineer

Cc: File

Attachments: Tables
Figures
Appendix A – Site Visit Documentation
Appendix B – Laboratory Report of Analyses

TABLES

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

		Run Time Since Last Visit (hours)									Influent SVE					Mid GAC				Effluent GAC			
Date	Run Time Meter Reading (hours)	Available		Actual	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)	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

Notes:
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
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
-- = measurement not recorded

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

Date	VOC Influent Concentration * (ppmv)	PCE Influent Concentration * (ppmv)	% PCE of Total VOCs	Extraction Well Flow Rate (cfm)	Elapsed Time Since Last Visit (day)	PCE Removal Since Last Visit (lb)	Cumulative PCE Removal (lb)
9/18/2002	SVE PILOT TEST STARTUP						
9/30/2002	2,000	500	25.0	34.5	12	126	126
10/14/2002	1,011	400	39.6	38	14	129	255
11/19/2002	0	0	--	49	36	116	371
12/16/2002	560	200	35.7	36.5	27	70	441
1/13/2003	485	400	82.5	28.5	28	157	597
1/21/2003	0	0	--	0	8	63	660
2/10/2003	639	400	62.6	38	20	65	725
3/5/2003	263	200	76.0	24.4	23	132	856
3/18/2003	125	100	80.0	92	13	77	934
4/29/2003	152	50	32.9	75	42	109	1,042
5/13/2003	127	50	39.4	78	14	65	1,107
6/30/2003	82.4	50	60.7	115	48	91	1,198
7/22/2003	406	400	98.5	99.5	12	416	1,615
8/26/2003	137	10	7.3	79	35	291	1,906
9/23/2003	141	15	10.6	218	14	30	1,936
10/21/2003	37.5	20	53.3	166	28	42	1,978
11/24/2003	141	125	88.7	130	34	179	2,157
1/6/2004	118	100	84.7	98.5	43	--	2,157
2/9/2004	23.1	10	43.3	121	34	126	2,283

Notes:
* = 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.

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

Where:
MW = molecular weight
Molecular weight (MW) of PCE is 165.85
C = degrees centigrade, assumed to be 25
lb = pounds
cfm = cubic feet per minute
ppmv = parts per million (volume/volume basis)

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)

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 = Concentation exceeded calibration range
SVE = Soil vapor extraction
VGAC = vapor-phase granular activated carbon unit
mg/m3 = milligrams per cubic meter
-- = sample not collected

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

		Field Monitoring			Laboratory Results			Discharge based on Field Monitoring		Discharge based on Laboratory Results					
Date	System Effluent Flow Rate (cfm)	PCE System Effluent Concentration (ppmv)	System Effluent VOC Concentration (ppmv)	Elapsed Time (day)	PCE (mg/cu m.)	TCE (mg/cu m.)	cis-1,2-DCE (mg/cu m.)	PCE Discharge Since Last Visit (lb/hr)	PCE Discharge Since Last Visit (lb)	PCE Discharge Since Last Visit: lb/hr	PCE Discharge Since Last Visit (lb)	TCE Discharge Since Last Visit (lb/hr)	TCE Discharge Since Last Visit (lb)	cis-1,2-DCE Discharge Since Last Visit (lb/hr)	cis-1,2-DCE Discharge Since Last Visit (lb)
9/18/2002	SVE PILOT TEST STARTUP														
9/30/2002	290	--	0	12	--	--	--	--	--	--	--	--	--	--	--
10/14/2002	--	--	0	14	--	--	--	--	--	--	--	--	--	--	--
11/19/2002	290	--	0	36	--	--	--	--	--	--	--	--	--	--	--
12/16/2002	340	--	0	27	ND (5)	ND (5)	ND (5)	--	--	0.00	0.00	0.00	0.00	0.00	0.00
1/13/2003	45	0	--	28	--	--	--	0.0000	0.00	--	--	--	--	--	--
1/21/2003	220	--	0	8	--	--	--	--	--	--	--	--	--	--	--
2/10/2003	258	10	3.2	20	8.0	6.0	ND (5)	0.0654	31.40	0.008	3.71	0.006	2.78	0.00	0.00
3/5/2003	305	--	0	23	--	--	--	--	--	--	--	--	--	--	--
3/18/2003	282	0	0	13	--	--	--	0.0000	0.00	--	--	--	--	--	--
4/29/2003	287	0	0.6	42	--	--	--	0.0000	0.00	--	--	--	--	--	--
5/13/2003	245	0	0.6	14	5.0	ND (1)	ND (1)	0.0000	0.00	0.005	1.54	0.00	0.00	0.00	0.00
6/30/2003	240	100	29.8	48	--	--	--	0.3043	350.56	--	--	--	--	--	--
7/22/2003	222	--	0	12	ND (1)	ND (1)	ND (1)	--	--	0.00	0.00	0.00	0.00	0.00	0.00
8/26/2003	232	10	35.6	35	29.0	3.6	ND (5)	0.0588	49.42	0.025	21.17	0.003	2.63	0.00	0.00
9/23/2003	210	0	0	28	ND (5)	ND (5)	ND (5)	0.0000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
10/21/2003	225	0	0	28	ND (5)	ND (5)	ND (5)	0.0000	0.00	0.000	0.00	0.000	0.00	0.00	0.00
11/24/2003	205	0	0	34	--	--	--	0.0000	0.00	--	--	--	--	--	--
2003 Totals:									**431.38**		**26.424**		**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	0.000	0.00	0.000	0.00	0.009	7.18
2004 Totals:									**0.00**		**0.00**		**0.00**		**7.18**

Notes:
-- = Measurement not recorded
Discharge Rate (Field Monitoring, 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 Monitoring, lb) = Discharge Rate (lb/hr) * # of days*24hours/day*60 minutes/hr

Discharge Rate (Lab Results, lb/hr) = flow (cfm)*effluent conc. (mg/cu. m.)*1g/1000mg*1lb/453.6g*1cu. m./35.31cu. ft*60min/1 hr
Discharge (Lab Results, lb) = Discharge Rate (lb/hr) * # of days*24hours/day

Where:
MW = molecular weight
Molecular weight (MW) of PCE is 165.85, Molecular weight (MW) of TCE is 131.4, Molecular weight of cis-1,2-DCE is 96.94
C = degrees centigrade, assumed to be 25
cfm = cubic feet per minute
mg/cu. m = milligrams per cubic meter
ppmv = parts per million (volume/volume basis)
lb = pounds
hr = hours

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

FIGURES

IMAGE	X-REF	OFFICE	DRAWING NUMBER
---	---	*ALBANY, NY*	802901B35

MW-8
MW-7
MW-6
A
B
ELECTRICAL
MW-1
PILOT TEST ENCLOSURE
NO ACCESS
VP-2
C
E
VAPOR EXTRACTION POINT
F
G
VP-1
DIRECTION OF GROUNDWATER FLOW
FORMER VP-3
VP-3
VENT
RAMP
RAMP
FORMER VP-4
FORMER VP-5
FORMER VP-6
MW-9
MW-4A
VENT
MW-5
VENT
FLAMMABLE STORAGE AREA
VENT
VENT
RAMP
RAMP
MW-3A
MW-10
MW-2A
ADAMS BLVD.
H
FILL PIPES (3)

S C A L E
0 50 100 FEET

LEGEND:

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

FIGURE 1

REV	DATE	BY	CHK'D	APR'VD	DESCRIPTION/ISSUE
5	2/17/04	SSH			RELABLE VP's
4	6/9/03	SSH			UPDATE DRAWING
3	4/17/03	SSH			UPDATE DRAWING
2	1/16/03	SSH			ADD FORMER VP-3 TO DRAWING
1	12/3/02	SSH			UPDATE DRAWING

Shaw Environmental, Inc.

NATIONAL HEATSET PRINTING
FARMINGDALE, NEW YORK

SOIL VAPOR EXTRACTION
PILOT TEST LOCATION MAP

DESIGNED BY	J. SKAARUP	10/23/02	CHECKED BY		
DRAWN BY	CA/HMD/SSH	10/23/02	APPROVED BY		

SCALE:	DRAWING NO.	SHEET NO.	REVISION NO.
AS SHOWN	802901B35		5

L:\project\802901\802901B35.dwg
Plot Date/Time: 02/17/04 10:22am
Format Revised: 12/15/99
Image: .
Xref: .

APPENDIX A

SITE VISIT DOCUMENTATION

National Heatset Printing

1 Adams Boulevard, Farmingdale, New York

Shaw Environmental, Inc. Job/Task Number 802901/06010000

Personnel: R. Hoe
Weather: Overcast 30's

Time: 12:00
Date: 2-9-04

System Status:

Arrival: 12:00
Departure: 1530
Run Timer Reading: 10336.27
Electric Meter Reading: 5677

System Data:

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

Pre-Bleed Air (Extraction Well):

Flow: 121 CFM
Vacuum: 41 "H2O
PID Reading: 23.1 PPM
Draeger Tube: 10 PPM
Temperature: 54 °F

Post-Bleed Air (SVE Influent):

Flow: 122 CFM
Vacuum: 70 "H2O
PID Reading: 29.8 PPM
Draeger Tube: 25 PPM
Temperature: 155.8 °F

Carbon Monitoring:

Mid:	41.4	PPM	233	CFM	132 Temp. (°F)	25	PPM (Drager)
Effluent:	0.0	PPM	235	CFM	112 Temp. (°F)	ND	PPM (Drager)

Carbon effluent sample collected & shipped to lab? yes.

Knockout Tank Drained? NO
Gallons: 0
Purge water drums on-site: 0

Monitoring Well Gauging / Vapor Point Monitoring:

Well/V.P. ID:	MW-C	MW-E	MW-F	MW-G	VP-1	VP-2	VP-3	VP-4	VP-5	VP-6
DTW (ft):	16.60	16.70	16.60	16.90	16.95	Dry	16.05	–	–	–
Vac. (" H2O):	–	–	–	–	1.6	.05	0	–	–	–

Comments:

Electricians On site 1330 Anthony & Joe (Reel Electric) walked through. Found Main Disconnects Trans Feeders & Main water Supply for Ground. OFFSITE 1430 (Electricians)

APPENDIX B

LABORATORY REPORT OF ANALYSES

MITKEM CORPORATION
"Environmental Testing For The New Millennium"

February 25, 2004

Shaw Environmental & Infrastructure, Inc.
13 British American Boulevard
Latham, NY 12110
Attn: Mr. John Skaarup

RE: Client Project: National Heatset, 802901
Lab Project #: C0123

Dear Mr. Skaarup:

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,

Edward A. Lawler
Laboratory Operations Manager

175 Metro Center Boulevard • Warwick, Rhode Island 02886-1755
(401) 732-3400 • Fax (401) 732-3499 • www.mitkem.com

MITKEM CORPORATION

Report of Laboratory Analyses for Shaw Environmental & Infrastructure, Inc.

Client Project: National Heatset

SDG# C0123

Mitkem Project ID: C0123

February 25, 2004

Prepared For:

Shaw Environmental & Infrastructure, Inc.
13 British American Boulevard
Latham, NY 12110
Attn: Mr. John Skaarup

Prepared By:

Mitkem Corporation
175 Metro Center Boulevard
Warwick, RI 02886
(401) 732-3400

MITKEM CORPORATION

Client: Shaw Environmental & Infrastructure, Inc.

Client Project: National Heatset, 802901

Lab Project: C0123

Date samples received: 2/16/04

Project Narrative

This data report includes the analysis results for one (1) air sample in a Tedlar bag that was received from Shaw Environmental & Infrastructure, Inc on February 10, 2004. 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.

Edward A. Lawler
Laboratory Operations Manager

MITKEM CORPORATION

Data Flag/Qualifiers:

U Not Detected. This compound was analyzed-for but not detected. For Organics analysis the reporting limit (lowest standard concentration) is the value listed. For Inorganics analysis, the value listed is the detection limit. For Inorganics analyzed using SW-846 methods, the detection limit is the Method Detection Limit, for Inorganics analyzed using EPA CLP and NY ASP CLP methods, the detection limit is the Instrument Detection Limit.

J For Organics analysis, this flag indicates an estimated value due to either
- the compound was detected below the reporting limit, or
- estimated concentration for Tentatively Identified Compound

B For Organic analyses, this flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

D For Organics analysis, this flag indicates the compound concentration was obtained from a diluted analysis

E For Organics analysis, this flag indicates the compound concentration exceeded the Calibration Range. The E flag has an alternative meaning for Inorganics analyses, indicating an estimated concentration due to the presence of interferences, as determined by the serial dilution analysis.

P This flag is used for Pesticides/PCB/Herbicide compound when there is a greater than 40% difference for detected concentration between the two GC columns used for Primary and Confirmation analyses. This difference typically indicates an interference, causing one value to be unusually high. The **lower** of the two values is reported in the Analysis Report.

A Used to flag Semivolatile Organic Tentatively Identified Compound library search results for compounds identified as aldol condensation byproducts.

N Used to flag results for Volatile and Semivolatile Organics analysis Tentatively Identified Compounds where an analyte has passed the identification criteria, and is considered to be positively identified. For Inorganics analysis the N flag indicates the matrix spike recovery falls outside of the control limit.

* For Inorganics analysis the * flag indicates Relative Percent Difference for duplicate analyses is outside of the control limit.

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CARBON EFFLUENT

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: C0123

Matrix: (soil/water) AIR Lab Sample ID: C0123-01A

Sample wt/vol: _____ (g/mL) ML Lab File ID: V1G0180

Level: (low/med) LOW Date Received: 02/10/04

% Moisture: not dec. _____ Date Analyzed: 02/16/04

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/M3	Q
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-35-4	1,1-Dichloroethene	5	U
67-64-1	Acetone	5	U
75-15-0	Carbon Disulfide	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
1634-04-4	Methyl tert-butyl ether	5	U
75-34-3	1,1-Dichloroethane	5	U
78-93-3	2-Butanone	5	U
156-59-2	cis-1,2-Dichloroethene	10	
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
107-06-2	1,2-Dichloroethane	5	U
71-43-2	Benzene	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-10-1	4-Methyl-2-pentanone	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
591-78-6	2-Hexanone	5	U
124-48-1	Dibromochloromethane	5	U
108-90-7	Chlorobenzene	5	U
100-41-4	Ethylbenzene	5	U
----------	m,p-Xylene	5	U
95-47-6	o-Xylene	5	U
1330-20-7	Xylene (Total)	5	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CARBON EFFLUENT

Lab Name: MITKEM CORPORATION Contract:

Lab Code: MITKEM Case No.: SAS No.: SDG No.: C0123

Matrix: (soil/water) AIR Lab Sample ID: C0123-01A

Sample wt/vol: _____ (g/mL) ML Lab File ID: V1G0180

Level: (low/med) LOW Date Received: 02/10/04

% Moisture: not dec. _____ Date Analyzed: 02/16/04

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/M3	Q
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U

Mitkem Corporation

10/Feb/04 12:29

WorkOrder: C0123

Client ID: SHAW_LATHAM
Project: NYSDEC
Location:
Comments: N/A

Case:
SDG:
PO: 802901

Report Level: LEVEL 2
EDD: XL
HC Due: 02/24/04
Fax Due:

Sample ID	Client Sample ID	Collection Date	Date Received	Matrix	Test Code	Invoice Reamrks	Iold	MS	SEL	Storage
C0123-01A	CARBON EFFLUENT	02/09/04 13:00	02/10/04	Air	TO14	Air samples - 95-1, run 5mL	☐	☐	☐	VOA

Client Rep: Benjamin F Dodge

MITKEM CORPORATION

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

CHAIN-OF-CUSTODY RECORD

REPORT TO			INVOICE TO		
COMPANY Shaw Environmental, Inc.	PHONE 518-783-1996		COMPANY SAME	PHONE	LAB PROJECT #: C0123
NAME Toby Skarry	FAX 518-783-8397		NAME	FAX	
ADDRESS 13 British American Blvd.			ADDRESS		TURNAROUND TIME:
CITY/ST/ZIP Latham NY 12110			CITY/ST/ZIP		

CLIENT PROJECT NAME:	CLIENT PROJECT #:	CLIENT P.O.#:
National Heatset	803901	

SAMPLE IDENTIFICATION	DATE/TIME SAMPLED	COMPOSITE	GRAB	WATER	SOIL	OTHER	LAB ID	# OF CONTAINERS	REQUESTED ANALYSES: TO-14 Modified	COMMENTS
Carbon Effluent	2/9/04 1306		X			AIR X		1	X	
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									
	/									

TSF#	RELINQUISHED BY	DATE/TIME	ACCEPTED BY	DATE/TIME	ADDITIONAL REMARKS:	COOLER TEMP:
		2-5-04 1600	J. Davis	2-10-04 09:00		
		/		/		
		/		/		

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

MITKEM CORPORATION

Sample Condition Form

Received By: SDAVIS | Reviewed By: am | Date: 2-10-04 | MITKEM Project: C0123

Client Project: National HeatSet | Client: SHAW ENV. INC

Condition:

1) Custody Seal(s) ~~Present~~ / Absent
~~Coolers~~ / Bottles
Intact / Broken

Custody Seal Numbers: N/A

3) Chain -of- Custody Present / Absent

4) Airbill(s) Present / Absent

Airbill Number(s): 8290 8752
6213

5) Cooler Temperature: _____

Coolant Condition: _____

6) Sample Bottles Intact/Broken/Leaking

7) Date Received: 2-10-04

8) Time Received: 0900

Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaO	VOA Matrix
C0123-01					

VOA Matrix Key:
US = Unpreserved Soil
UA = Unpreserved Aqueous
M/N = MeOH& NaHSO4
N = NaHSO4 M = MeOH
A = Air
H = HCl
E=Encore

See Sample Condition Notification / Corrective Action Form yes / no

Comments / Remarks

Rad Ok Yes / No

Last Page of Data Report