Shaw® Shaw Environmental, Inc.

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December 29, 2003

Mr. Joseph Peck
New York State Department
of Environmental Conservation
Remedial Bureau B, Section D
625 Broadway, 12th Floor
Albany, New York 12233

Subject: Quarterly Remedial Measure Operation & Maintenance and Indoor Air Quality Monitoring Report
Jimmy's Dry Cleaner Site, Roosevelt, New York
NYSDEC Site No. 1-30-080

Dear Mr. Peck:

Shaw Environmental, Inc. (Shaw) has developed this letter to serve as a Quarterly Operation, Monitoring & Maintenance (O&M) and Indoor Air Quality Report for the Soil Vapor Extraction (SVE) System located at the former Jimmy's Dry Cleaner (Site) located in Roosevelt, New York. The SVE system was installed as an Interim Remedial Measure (IRM) to abate volatile organic compounds (VOCs) from a business and residence located near the Site.

On May 9, 2002 the Nassau County Department of Health (NCDOH) performed indoor air quality sampling within several residences located along Dutchess Street and three commercial establishments located in the area of the Site. The sampling was performed to evaluate the ambient air quality in each of the structures as a result of VOCs detected in soil and groundwater at the Site and in the area down gradient (south) of the Site.

The May 9, 2002 indoor air sampling results identified the presence of tetrachloroethene (PCE) in ambient air at #40 Dutchess Street, the Kentucky Fried Chicken Restaurant (KFC) (located approximately 250 feet south of the Site on Nassau Road) and within the Deli (located within the former dry cleaner building). Additional air quality samples were collected from the Miss Shelly School at #66 Nassau Road (located across Nassau Road from the Site). The analytical results indicated that concentrations of PCE at each of the sampling locations were below the NYSDOH Ambient Air Guidance Value for PCE (100 ug/m^3) with the exception of #40 Dutchess Street and the Deli. Based on the sampling results, the NYSDOH, and the NYSDEC requested

that Shaw design and install an IRM to reduce the presence of PCE at #40 Dutchess Street and the Deli and to inhibit any further migration of VOCs. On August 14, 2002 Shaw provided the New York State Department of Environmental Conservation (NYSDEC) a letter report describing the IRM. The letter included a description of site conditions that made the IRM necessary, a description of the SVE system design, IRM installation activities, a summary of the SVE system start-up procedures, and a summary of the initial SVE system O&M activities. Following the first month of O&M visits the SVE system operation stabilized and the frequency of O&M visits was adjusted from weekly to a periodic basis.

After the installation of the SVE system, Shaw implemented an Indoor Air Quality Monitoring program for the select sampling locations. Throughout subsequent monitoring events an overall decrease in concentrations of PCE in ambient air has been observed.

To date, seven (7) O&M letter reports and four (4) Indoor Air Quality letters have been submitted to the NYSDEC summarizing the IRM. This letter report serves the first time the O&M and Indoor Air Quality reports have been presented under the same cover. This report covers the period of May 2, 2003 through November 1, 2003.

Remedial System Operation and Maintenance

To further evaluate the SVE system's operating performance, Shaw completed nine site visits during the reporting period to monitor and adjust the SVE system. VOC concentrations, flow rates, and vacuum readings were recorded at extraction wells SVE - 2, SVE - 3, SVE - 4, SVE - 5, SVE - 6, SVE - 7, VMP - 1 and at the SVE blower (**Attachment 1 – IRM-SVE Plan**). Extraction wells SVE - 1, SVE - 2, SVE – 3, SVE - 4 and SVE - 5 were not monitored during one or more site visits due to the inability to access the extraction well locations. A summary of the monitoring data collected during the monitoring events is tabulated in **Attachment 2 - IRM Parameters** of this letter report.

The monitoring data reveals elevated VOC concentrations at SVE - 2, SVE - 3, and SVE - 4 during several monitoring events. During the monitoring period, the vacuum extraction rates at the wellheads were fully opened, allowing for maximum extraction rate. This adjustment helped address the elevated VOC concentrations observed in the soil gas.

Modeling performed with earlier flow rates and influent VOC concentrations indicated that the carbon would be depleted at a rate of approximately one vessel every month. Recent VOC concentrations have allowed for a greater than 1 month life expectancy for the carbon vessels.

The first carbon change out occurred on August 27, 2002. Additional carbon change outs were performed during the September 18, 2002, November 1, 2002, January 13, 2003, March 5, 2003, July 29, 2003, September 24, 2003, and October 21, 2003 monitoring events. During the carbon change out, the lag vessel was moved to the lead position and a new carbon vessel placed in the lag position. Used carbon was staged on-site for disposal by an approved waste disposal firm. The rate of carbon usage will be monitored during each site visit to determine the maximum VOC extraction rate that can be performed to prevent VOC migration while maximizing the life of the carbon vessels.

Indoor Air Quality Results

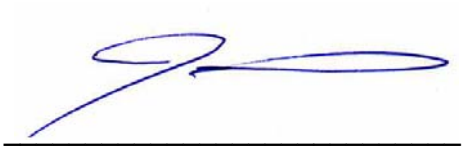
Shaw conducted a fifth indoor air quality sampling event for the Deli, KFC and # 40 Dutchess Street. Attempts were made to sample # 44 Dutchess, however the resident was not available on the date of sampling (September 23, 2003). A total of four passive diffusion dosimeters were installed at the Deli, KFC, and # 40 Dutchess. A duplicate sample was also collected from KFC for analytical comparative purposes. In addition a background sample was collected near the Deli. Attached is a copy of the analytical data for the September 23, 2003 Indoor Air Quality Monitoring Event (**Attachment 3 – Indoor Air Analytical**). Shaw has tabulated the analytical results for the monitoring events performed by both the NYSDOH and Shaw for comparison purposes (**Attachment 4 – Indoor Air Quality Data**). Comparison of the analytical results indicates that concentrations of PCE are below the NYSDOH Ambient Air Guidance Value (100 ug/m^3). Furthermore, most concentrations were below the NYSDOH indoor air ambient air goal (10 ug/m^3) as discussed in the NYSDOH Fact Sheet, PCE in Indoor and Outdoor Air, May 2003. Concentrations of PCE were recorded at levels slightly above the NYSDOH goal in the front room of the Deli (26 ug/m^3). Shaw will adjust the bleed-air valve at the blower to help address the slightly elevated ambient air concentration.

Following the completion of the next quarter monitoring events, a letter report will be prepared by Shaw and submitted to the NYSDEC summarizing the findings of the November 2003 through March 2004 O & M events.

If you have any questions or comments regarding this information, please contact Shaw at 518-783-1996.

Sincerely,

Shaw Environmental, Inc.



Jennifer M. Nafus
Project Scientist

Shaw Environmental, Inc.

Heide-Marie Dudek, P.E.
Project Manager

Marc E. Flanagan
Site Supervisor

cc: Robert Cozzy, NYSDEC
Rebecca Mitchell, NYSDOH
Joseph DeFranco, NCDOH
Margie Gardner, Shaw

Attachments: 1-4

ATTACHMENT 1

IRM-SVE PLAN

SCALE
0 20 40 FEET

N

Lands Now or Formerly of
TOWN OF HEMPSTEAD
Book 10755, Page 993
Section 55 Block 402 Lot 352

VACANT LOT USED FOR VEHICLE STORAGE

AREA OF BROKEN PAVEMENT

CONCRETE PAD

APPROXIMATE BACK LOT FOR 35 TAYLOR ROAD

Lands Now or Formerly of
LAWRENCE GARAFALO
Book 9857, Page 661
Section 55 Block 402 Lot 356

LANDSCAPING BUSINESS VEHICLE + MATERIAL STORAGE AREA

S 85°11'19" E

BD
BD
BD
BD
CONCRETE PAD

99.99'

SVE-4

SVE-1

C
C

FORMER DRY CLEANER

SVE SHED

1 STORY CONCRETE BLOCK BUILDING

VMP-1

F.F.=34.2'

CONCRETE APRON

ASPHALT

CONCRETE CURB

WV

CHIMNEY

DELI

APPROXIMATE BACK LOT FOR 48 DUTCHESS STREET

APPROXIMATE BACK LOT FOR 44 DUTCHESS STREET

SVE-5

SVE-2

SVE-3

SVE-6

SVE-7

APPROXIMATE BACK LOT FOR 40 DUTCHESS STREET

N 85°11'19" W

CONCRETE PAD

SIGN

S 04°12'56" W

101.04'

LEGEND:

- NO PHYSICAL BOUNDS
- ADJACENT PROPERTY LINE
- EXISTING FENCE
- SITE PERIMETER
- SOIL VAPOR EXTRACTION WELL
- VAPOR MONITORING POINT
- SVE PIPING
- (C) CORBON VESSELS

Shaw™
Shaw Environmental, Inc.

NYSDEC JIMMY'S DRY CLEANER

ATTACHMENT 1
IRM–SVE PLAN

ROOSEVELT, NEW YORK

REFERENCE:
BASE MAP SOURCE: CHAZEN COMPANY.

DRAWING NUMBER	824324B28
APPROVED BY	
CHECKED BY	
DRAWN BY	S. SHKOLNIK 12-09-03
OFFICE	ALBANY, NY

L:\project\824324\824324B28.dwg
Plot Date/Time: 12/09/03 09:20am
Format Revised: 12/15/99
Image: 394
Xref: . INDEX

ATTACHMENT 2

IRM PARAMETERS

Attachment 2
IRM Parameters
NYSDEC - Jimmy's Dry Cleaner

Sample Location	August 7, 2002 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	August 12, 2002 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	August 21, 2002 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open
SVE - 1	7.0	30.0	326.0	100%	3.5	18.8	449.0	25%	7.0	31.7	925.0	25%
SVE - 2	6.0	10.0	64.4	100%	4.0	9.5	32.4	100%	7.0	17.9	68.9	100%
SVE - 3	5.5	25.0	695.0	100%	4.0	17.7	221.0	50%	7.0	23.0	521.0	50%
SVE - 4	6.0	39.0	36.4	100%	5.0	34.5	28.0	100%	8.0	25.2	37.1	100%
SVE - 5	N/S	N/S	N/S	100%	N/S	N/S	N/S	100%	N/S	N/S	N/S	100%
SVE - 6	5.0	17.0	0.0	100%	4.0	20.5	0.0	100%	6.0	11.4	0.0	100%
SVE - 7	5.0	10.5	0.0	100%	4.0	22.0	0.0	100%	6.0	9.3	0.0	100%
VMP - 1	0.0	NA	283.0	NA	0.0	NA	50.6	NA	0.0	NA	NS	NA
Before blower	NA	98.0	157.0	NA	NA	80.0	132.0	50%	NA	73.5	178.0	50%
Influent	NA	113.0	162.0	NA	NA	105.0	96.5	NA	NA	115.0	145.0	NA
Mid	NA	97.5	0.0	NA	NA	99.0	0.0	NA	NA	102.0	163.0	NA
Effluent	NA	110.0	0.0	NA	NA	110.0	0.0	NA	NA	108.0	0.0	NA
Open bleed air valve 10%.												
Before blower	NA	95.0	156.0	NA								
Influent	NA	113.0	143.0	NA								
Mid	NA	95.0	0.0	NA								
Effluent	NA	104.0	0.0	NA								

Notes:

NA = not applicable.
NS = not sampled due to access issues.
Influent = Before carbon
Mid = Between carbon.
Effluent = After carbon.
Vac = Vacuum

Attachment 2
IRM Parameters
NYSDEC - Jimmy's Dry Cleaner

Sample Location	August 27, 2002 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	September 5, 2002 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	September 5, 2002 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open
SVE - 1	4.0	18.0	1098.0	25%	4.0	19.8	>2000	15%	N/S	N/S	N/S	10%
SVE - 2	4.0	12.5	93.2	100%	5.0	10.5	576.0	100%	N/S	N/S	N/S	100%
SVE - 3	4.0	16.5	425.0	50%	3.0	11.5	>2000	50%	N/S	N/S	N/S	50%
SVE - 4	4.0	20.6	33.2	100%	5.0	26.5	385.0	100%	N/S	N/S	N/S	100%
SVE - 5	N/S	N/S	N/S	100%	N/S	N/S	N/S	100%	N/S	N/S	N/S	100%
SVE - 6	4.0	23.4	0.0	100%	3.0	10.1	0.0	100%	N/S	N/S	N/S	100%
SVE - 7	3.0	6.5	0.0	100%	3.0	7.5	0.0	100%	N/S	N/S	N/S	100%
VMP - 1	0.0	NA	116.0	NA	0.0	NA	1220.0	NA	Open bleed air valve to 75%.			
Before blower	NA	57.0	193.0	65%	NA	43.5	>2000	65%	NA	35.2	>2000	75%
Influent	NA	103.0	90.3	NA	NA	103.0	1150.0	NA	NA	104.0	615.0	NA
Mid	NA	83.0	69.6	NA	NA	76.0	915.0	NA	NA	78.0	850.0	NA
Effluent	NA	128.0	0.0	NA	NA	99.5	0.0	NA	NA	101.0	0.0	NA
	Carbon change out performed											

Notes:
NA = not applicable.
NS = not sampled due to access issues
Influent = Before carbon.
Mid = Between carbon.
Effluent = After carbon.
Vac = Vacuum

Attachment 2
IRM Parameters
NYSDEC - Jimmy's Dry Cleaner

Sample Location	September 12, 2002 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	Sept. 12, 2002 (After adjustments) Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	September 18, 2002 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open
SVE - 1	1.0	9.7	>2000	10%	NA	NA	NA	0%	NA	NA	NA	0%
SVE - 2	3.0	20.4	682.0	100%	2.0-3.0	12.3	668.0	50%	3.5	8.0	68.1	100%
SVE - 3	2.0-3.0	8.6	>2000	50%	2.0	6.8	>2000	30%	3.2	3.0	368.0	30%
SVE - 4	2.0-3.0	21.9	410.0	100%	3.0	17.2	276.0	50%	3.7	10.2	54.5	50%
SVE - 5	N/S	N/S	N/S	100%	N/S	N/S	N/S	100%	N/S	N/S	N/S	100%
SVE - 6	2.0-3.0	14.7	0.0	100%	N/S	N/S	N/S	100%	3.0	16.5	0.0	100%
SVE - 7	2.0-3.0	21.5	0.0	100%	N/S	N/S	N/S	100%	3.0	8.5	0.0	100%
VMP - 1	0.0	NA	>2000	NA	N/S	NA	N/S	NA	0.0	NA	0.0	NA
Before blower	NA	32.8	>2000	75%	NA	30.3	626.0	75%	NA	34.0	69.2	75%
Influent	NA	98.5	711.0	NA	NA	98.0	153.0	NA	NA	106.0	16.5	NA
Mid	NA	84.5	763.0	NA	NA	78	494.0	NA	NA	94.5	48.6	NA
Effluent	NA	130.0	0.0	NA	NA	115.0	0.0	NA	NA	94.0	46.3	NA

Following carbon vessel change out.			
Before blower	36.1	67.1	NA
Influent	110.0	16.1	NA
Mid	94.5	43.7	NA
Effluent	104.0	0.0	NA

Notes:
NA = not applicable.
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Influent = Before carbon.
Mid = Between carbon.
Effluent = After carbon.
Vac = Vacuum

Attachment 2
IRM Parameters
NYSDEC - Jimmy's Dry Cleaner

Sample Location	September 30, 2002				October 14, 2002				November 1, 2002			
	Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open
SVE - 1	NA	NA	NA	0%	NA	NA	NA	0%	NA	NA	NA	0%
SVE - 2	NS	NS	NS	50%	NS	NS	NS	50%	NS	NS	NS	50%
SVE - 3	3-4	6.4	>2000	30%	3.5	10.8	513.0	30%	3.0	8.8	369.0	50%
SVE - 4	2-3	24.5	1245.0	50%	4.5	38.5	109.0	50%	3.5	17.0	105.0	100%
SVE - 5	NS	NS	NS	100%	NS	NS	NS	100%	NS	NS	NS	100%
SVE - 6	2-3	21.1	0.0	100%	2.5	11.8	0.0	100%	<1.0	2.0	0.0	100%
SVE - 7	2.0	8.3	0.0	100%	3.0	3.07	0.0	100%	<1.0	9.40	0.0	100%
VMP - 1	0.0	NA	620.0	NA	0.0	NA	0.0	NA	0.0	NA	0.0	NA
Before blower	NA	31.5	1350.0	NA	NA	40.4	95.4	NA	NA	53.0	140.0	NA
Influent	NA	106.0	240.0	NA	NA	113.0	7.4	NA	NA	118.0	16.5	NA
Mid	NA	94.5	144.0	NA	NA	95.0	0.0	NA	NA	97.0	10.5	NA
Effluent	NA	114.0	0.0	NA	NA	113.0	0.0	NA	NA	102.0	0.0	NA
									Carbon change out performed			

Notes:
NA = not applicable.
NS = not sampled due to access issues
Influent = Before carbon.
Mid = Between carbon.
Effluent = After carbon.
Vac = Vacuum

Attachment 2
IRM Parameters
NYSDEC - Jimmy's Dry Cleaner

Sample Location	November 15, 2002				December 4, 2002				December 16, 2002			
	Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open
SVE - 1	NA	NA	NA	0%	3.0	10.4	29.1	30%	NS	NS	NS	30%
SVE - 2	NS	NS	NS	50%	NS	NS	NS	50%	NS	NS	NS	50%
SVE - 3	~1.0	5.2	0.0	50%	2-3	17.0	225.0	50%	0.5	1.6	117.0	50%
SVE - 4	NS**	NS**	NS**	100%	4.0	12.0	97.1	100%	1.5	1.3	126.0	100%
SVE - 5	NS	NS	NS	100%	3-4	3.2	0.0	100%	1.0	1.3	0.0	100%
SVE - 6	~2.0	11.8	0.0	100%	2.0	4.5	0.0	100%	1.0	0.5	0.0	100%
SVE - 7	~2.0	5.0	0.0	100%	2.0	4.7	0.0	100%	1.0	0.5	0.0	100%
VMP - 1	0.0	NA	0.0	NA	0.0	NA	8.7	NA	0.0	NA	0.0	NA
Before blower	NA	High	92.9	NA	NA	47.9	120.0	NA	NA	40.5	190.0	NA
Influent	NA	82.5	25.2	NA	NA	110.0	15.0	NA	NA	98.1	26.4	NA
Mid	NA	84.0	17.0	NA	NA	86.5	4.5	NA	NA	91..1	39.0	NA
Effluent	NA	126.0	0.0.	NA	NA	107.5	0.0	NA	NA	132.9	0.0	NA

** = Well under water, could not bail out fast enough.

Notes:

NA = not applicable.
NS = not sampled due to access issues
Influent = Before carbon.
Mid = Between carbon.
Effluent = After carbon.
Vac = Vacuum

Attachment 2
IRM Parameters
NYSDEC - Jimmy's Dry Cleaner

Sample Location	January 6, 2003 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	January 13, 2003 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	January 31, 2003 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open
SVE - 1	4.0	3.0	900.0	30%	3.0	13.0	823.0	30%	4.0	8.0	425.0	30%
SVE - 2	NS**	NS**	NS**	50%	NS	NS	NS	50%	NS	NS	NS	50%
SVE - 3	~1.0	2.4	78.2	50%	1.25	1.10	72.0	50%	0-1	1.00	10.0	50%
SVE - 4	NS	NS	NS	100%	NS	NS	NS	100%	NS	NS	NS	100%
SVE - 5	3.0	4.1	0.0	100%	NS	NS	NS	100%	NS	NS	NS	100%
SVE - 6	~2.0	5.8	0.0	100%	3.0	8.15	0.0	100%	2-3	6.00	0.0	100%
SVE - 7	~2.0	4.6	0.0	100%	2.0	4.70	0.0	100%	2-3	5.10	0.0	100%
VMP - 1	0.0	NA	0.0	NA	0.0	NA	0.0	NA	0.0	NA	0.0	NA
Before blower	NA	40.1	180.0	NA	NA	120.0	210.0	NA	NA	17.0	525.0	NA
Influent	NA	NS	NS	NA	NA	103.0	36.0	NA	NA	115.0	38.6	NA
Mid	NA	91.0	24.0	NA	NA	93.0	12.0	NA	NA	96.0	28.0	NA
Effluent	NA	111.0	0.0.	NA	NA	118.0	1.5	NA	NA	112.0	0.0	NA
** = Well under water, could not bail out fast enough.					Carbon change out performed							

Notes:
NA = not applicable.
NS = not sampled due to access issues
Influent = Before carbon.
Mid = Between carbon.
Effluent = After carbon.
Vac = Vacuum

Attachment 2
IRM Parameters
NYSDEC - Jimmy's Dry Cleaner

Sample Location	February 10, 2003				March 5, 2003				March 18, 2003			
	Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open
SVE - 1	8.0	28.7	350.0	30%	NA	NA	NA	0%	NA	NA	NA	0%
SVE - 2	NS	NS	NS	50%	<1	0.3	7.7	100%	2.0	3.6	0.0	100%
SVE - 3	0.0	0.0	0.0	50%	<1	0.0	0.0	50%	2.0	4.6	46.1	50%
SVE - 4	NS	NS	NS	100%	NS	NS	NS	100%	NS	NS	NS	100%
SVE - 5	NS	NS	NS	100%	<1	0.2	2.7	100%	2.5	11.3	0.0	100%
SVE - 6	0.0	0.0	0.0	100%	0.0	0.0	0.0	100%	2.5	3.9	0.0	100%
SVE - 7	0.0	0.0	0.0	100%	0.0	0.0	0.0	100%	3.0	10.9	0.0	100%
VMP - 1	0.0	NA	0.0	NA	0.0	NA	0.0	NA	0.0	NA	0.0	NA
Before blower	NA	30.0	165.0	NA	NA	44.0	0.0	NA	NA	54.0	2.6	NA
Influent	NA	15.3	109.0	NA	NA	106.0	0.0	NA	NA	113.0	0.0	NA
Mid	NA	92.5	3.3	NA	NA	88.6	22.3	NA	NA	85.0	0.0	NA
Effluent	NA	126.0	0.0	NA	NA	115.0	0.0	NA	NA	121.0	0.0	NA
Close valve at SVE -1 to 0%					Open valve at SVE -2 to 100% Carbon Change out performed.							

Notes:
NA = not applicable.
NS = not sampled due to access issues
Influent = Before carbon.
Mid = Between carbon.
Effluent = After carbon.
Vac = Vacuum

Attachment 2
IRM Parameters
NYSDEC - Jimmy's Dry Cleaner

Sample Location	April 5, 2003 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	April 14, 2003 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	May 1, 2003 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open
SVE - 1	NA	NA	NA	0%	NA	NA	NA	0%	NA	NA	NA	0%
SVE - 2	7.5	7.2	0.5	100%	9.0	11.5	10.8	100%	NA	NA	NA	100%
SVE - 3	7.0**	9.8**	131.0**	100%	9.0	5.0	85.0	100%	8.0	22.1	89.2	100%
SVE - 4	NS	NS	NS	100%	NS	NS	NS	100%	NS	NS	NS	100%
SVE - 5	7.0	21.3	0.0	100%	NS	NS	NS	100%	NS	NS	NS	100%
SVE - 6	6.5	13.1	0.0	100%	8.0	55.0	0.0	100%	7.0	40.5	0.0	100%
SVE - 7	6.0	9.5	0.0	100%	9.0	34.0	0.0	100%	7.0	43.4	0.0	100%
VMP - 1	0.0	NA	0.0	NA	0.0	NA	0.0	NA	0.0	NA	0.0	NA
Before blower	NA	46.0	36.6	NA	NA	93.0	36.4	NA	NA	59.0	24.5	NA
Influent	NA	120.0	9.7	NA	NA	118.0	15.6	NA	NA	109.5	15.1	NA
Mid	NA	96.1	0.6	NA	NA	94.0	5.5	NA	NA	101.0	20.5	NA
Effluent	NA	105.0	0.0	NA	NA	106.0	0.0	NA	NA	111.0	0.0	NA
Changed the extraction rate at SVE-3 to 100%.												
SVE - 3	7.0	10.6	144	100%								

Notes:
NA = not applicable.
NS = not sampled due to access issues
Influent = Before carbon.
Mid = Between carbon.
Effluent = After carbon.
Vac = Vacuum

Attachment 2
IRM Parameters
NYSDEC - Jimmy's Dry Cleaner

Sample Location	May 14, 2003 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	May 27, 2003 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	June 11, 2003 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open
SVE - 1	NA	NA	NA	0%	NA	NA	NA	0%	NA	NA	NA	0%
SVE - 2	NS	NS	NS	100%	8.5	83.0	14.5	100%	NS	NS	NS	100%
SVE - 3	>5	5.35	101.0	100%	NS	NS	NS	100%	NS	NS	NS	100%
SVE - 4	>5	15.7	35.9	100%	NS	NS	NS	100%	NS	NS	NS	100%
SVE - 5	NS	NS	NS	100%	8.0	71.5	5.6	100%	NS	NS	NS	100%
SVE - 6	>5	21.7	0.0	100%	8.0	46.8	0.0	100%	<5	23.3	0.0	100%
SVE - 7	>5	16.0	0.0	100%	8.0	25.3	0.0	100%	<5	18.3	0.0	100%
VMP - 1	0.0	NA	0.0	NA	0.0	NA	0.0	NA	0.0	NA	0.0	NA
Before blower	NA	74.5	31.6	NA	NA	140.0	35.5	NA	NA	71.5	6.6	NA
Influent	NA	104.0	17.5	NA	NA	105.0	16.2	NA	NA	81.5	0.0	NA
Mid	NA	90.5	14.6	NA	NA	25.6	26.2	NA	NA	86.5	0.0	NA
Effluent	NA	122.0	0.0	NA	NA	106.0	0.0	NA	NA	128.0	0.0	NA

Notes:
NA = not applicable.
NS = not sampled due to access issues
Influent = Before carbon.
Mid = Between carbon.
Effluent = After carbon.
Vac = Vacuum

Attachment 2
IRM Parameters
NYSDEC - Jimmy's Dry Cleaner

Sample Location	June 30, 2003 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	July 16, 2003 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	July 29, 2003 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open
SVE - 1	NA	NA	NA	0%	NA	NA	NA	0%	NA	NA	NA	0%
SVE - 2	5.0	23.5	0.0	100%	NS	NS	NS	100%	5.0	15.6	0.0	100%
SVE - 3	6.0	25.0	76.8	100%	5.5	NS	3.0	100%	6.0	6.0	0.0	100%
SVE - 4	NS	NS	NS	100%	NS	NS	NS	100%	5	29.9	0	100%
SVE - 5	NS	NS	NS	100%	NS	NS	NS	100%	4.5	10.0	0.0	100%
SVE - 6	6.0	43.2	0.0	100%	4.0	NS	3.2	100%	4.0	7.6	0.0	100%
SVE - 7	5.5	19.2	0.0	100%	4.0	NS	1.6	100%	5.0	13.0	0.0	100%
VMP - 1	0.0	NA	0.0	NA	0.0	NA	0.0	NA	0.0	NA	0.0	NA
Before blower	NA	62.5	7.0	NA	NA	NS	31.0	NA	NA	65.0	34.9	NA
Influent	NA	96.0	0.0	NA	NA	NS	21.6	NA	NA	108.0	18.3	NA
Mid	NA	89.5	7.0	NA	NA	NS	22.0	NA	NA	91.5	11.5	NA
Effluent	NA	121.3	20.6	NA	NA	NS	16.4	NA	NA	121.0	7.6	NA
	Unable to change out carbon units due to access issues				Flow meter not working				Following carbon vessel change out.			
									Before blower	71.5	31.2	NA
									Influent	100.0	14.0	NA
									Mid	92.0	0.0	NA
									Effluent	114.0	0.0	NA

Notes:
NA = not applicable.
NS = not sampled due to access issues
Influent = Before carbon.
Mid = Between carbon.
Effluent = After carbon.
Vac = Vacuum

Attachment 2
IRM Parameters
NYSDEC - Jimmy's Dry Cleaner

Sample Location	August 26, 2003 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	September 24, 2003 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open	October 21, 2003 Vac (inches of water)	Flow (cfm)	PID (ppm)	Valve % Open
SVE - 1	NA	NA	NA	0%	NA	NA	NA	0%	NA	NA	NA	0%
SVE - 2	NS	NS	NS	100%	5.0	10.8	1026.0	100%	NS	NS	NS	100%
SVE - 3	5.0	36.5	157.0	100%	4.0	28.1	82.5	100%	3.0	13.7	101.0	100%
SVE - 4	5.0	26.3	50.2	100%	5.0	20.2	127.0	100%	3.0	25.2	53.8	100%
SVE - 5	NS	NS	NS	100%	NS	NS	NS	100%	NS	NS	NS	100%
SVE - 6	4.0	19.0	0.0	100%	3.5	24.5	0.0	100%	2.0	27.2	0.0	100%
SVE - 7	4.0	23.6	0.0	100%	4.0	16.9	0.0	100%	2.0	24.4	0.0	100%
VMP - 1	0.0	NA	0.0	NA	0.0	NA	0.0	NA	0.0	NA	0.0	NA
Before blower	NA	120.0	43.0	NA	NA	52.0	478.0	NA	NA	101.0	46.2	NA
Influent	NA	125.0	20.2	NA	NA	119.0	139.0	NA	NA	114.0	17.0	NA
Mid	NA	102.0	0.0	NA	NA	98.5	53.0	NA	NA	97.5	0.0	NA
Effluent	NA	110.0	0.0	NA	NA	99.5	67.0	NA	NA	87.0	0.0	NA
					Carbon change out performed.				Carbon change out performed.			

Notes:
NA = not applicable.
NS = not sampled due to access issues
Influent = Before carbon.
Mid = Between carbon.
Effluent = After carbon.
Vac = Vacuum

ATTACHMENT 3

INDOOR AIR ANALYTICAL

GALSON LABORATORIES
6601 Kirkville Road
East Syracuse, NY 13057
(315) 432-5227
Fax: (315) 437-0571
www.galsonlabs.com

LABORATORY ANALYSIS REPORT

Client : Shaw Environmental & Infrastructure
Site : NYS DEC-Jimmy's Dry Cleaner
Project No. : 824324-04000000

Date Sampled : 23-SEP-03
Date Received : 25-SEP-03
Date Analyzed : 29-SEP-03

Account No.: 14965
Login No. : L97201

Perchloroethylene

Sample ID	Lab ID	Time minutes	Total ug	Conc ug/m3
BKGD	L97201-1	1440	0.26	6.2
DUPE	L97201-2	1440	0.22	5.2
KFC	L97201-3	1440	0.25	5.9
DELI	L97201-4	1440	1.11	26
40 DUTCHESS	L97201-5	1440	0.26	6.2
BLANK	L97201-6	NA	0.06	NA

COMMENTS: Total ug corrected for a desorption efficiency of 103%.
Sample results have not been corrected for the blank value.

Level of quantitation: 0.03 ug
Analytical Method : NYS DOH 311-9
OSHA PEL (TWA) : 100 ppm
Collection Media : OVM

Submitted by: AS
Approved by : jmt
Date : 01-OCT-03
QC by:
NYS DOH # : 11626

< -Less Than
> -Greater Than
NA -Not Applicable
mg -Milligrams
ug -Micrograms
ND -Not Detected
m3 -Cubic Meters
l -Liters
ppm -Parts per Million
kg -Kilograms
NS -Not Specified

Request For Industrial Hygiene Analysis

Galson Laboratories
6601 Kirkville Road
P.O. Box 369
E. Syracuse, NY 13057-0369
Tel: (315) 437-7252 888-577-Labs (5227)
Fax: (315) 437-0571

Company Name: Shaw Environmental Account #:
Site Name: NYSDEC - Jimmy's Dry Cleaners
Sampled By: SAS Project #: 824 3X - 0402000

☐ Check if Change of Address

Report to: Shaw Environmental, Inc
13 British American Blvd.
Latham, NY 12110

Phone: (518) 783-1996

Invoice to: SAME

Phone: ( )

☒ Purchase order number: 205629 (PO 9/24/03) ☐ Verbal Authorization:

☐ Credit Card (type): Card #: Exp Date:

☒ Standard Turn-Around Time (5 business days)

☐ Same Day (SD) Next Day(ND) ☐ 12PM ☐ 5PM ☐ 2 Day ☐ 3 Day ☐ 4 Day

Surcharges: SD = 200% ND by 12PM = 150% ND by 5PM = 100% 2 Day= 75% 3 Day = 50% 4 Day = 35%

☐ Fax Results to: Fax #: ( )

☒ Email Results to: marc.flanagan@shawgrp.com

Sample Identification	Date Sampled	Sample Medium Catalog # / Lot #	Air Sample Volume (liters)*	Analysis Requested	Method Reference
✓ Bkgd	9/23/03	3500 ovm	1440 min	Perc	NYSDOH 311-9
✓ Duke	↓	↓		↓	↓
✓ KFC					
✓ Deli					
✓ 40 Dutchess	↓			~~Perc~~	~~NYSDOH 311-9~~
✓ Blank		↓ MG		Perc	NYSDOH 311-9

If blanks are not submitted, our policy states that a laboratory blank will be added for each analyte and it will be charged at the normal rate. IF YOU DO NOT WANT A LABORATORY BLANK ADDED PLEASE CHECK BOX ☐

*For passive monitors please list time exposed in minutes.

Comments (Please list any known interferences present in sampling area): samples to be analyzed by NYSDOH Method 311-9. Need detection limits minimum of 10 ug/m3

Chain of Custody	Print Name	Signature	Date/Time
Relinquished by:	John A. Skaggs	John A. Skaggs	9/24/03
Received by LAB.	A. Graff	A. Graff	09-25-03 A10:19 IN

Samples received after 3pm will be considered as next day's business.

LAB ORIGINAL

ATTACHMENT 4

INDOOR AIR QUALITY DATA

Attachment 4
Indoor Air Quality Data
NYSDEC - Jimmy's Dry Cleaner
61 Nassau Road, Roosevelt, New York

Sample Location	Units	NYSDOH Guidance Value	09/29/98	01/05/99	08/17/00	08/28/01	05/09/02
KFC - Kitchen	ug/m^3	100	NS	NS	NS	10	70
40 Dutchess (Bsmt. Living. Rm)	ug/m^3	100	NS	NS	NS	5 (PL)	NS
40 Dutchess (Bsmt. Bdrm/baby rm)	ug/m^3	100	NS	NS	NS	5 (PL)	**490**
40 Dutchess (Kitchen/First Floor)	ug/m^3	100	NS	NS	NS	5 (PL)	**280**
Deli - Front Room	ug/m^3	100	**1250/1400**	**400/400**	**510/480**	**108**	**900/870**
Deli - Storage Room (Back)	ug/m^3	100	**930/970**	**400/400**	**490/480**	NS	NS
Dupe 1 (Deli - Front Room)	ug/m^3	100	NS	NS	NS	NS	NS
Dupe 2 (40 Dutchess.Bsmt)	ug/m^3	100	NS	NS	NS	NS	NS
Dupe 3 (Deli - Front Room)	ug/m^3	100	NS	NS	NS	NS	NS
Dupe 4 (KFC)	ug/m^3	100	NS	NS	NS	NS	NS
44 Dutchess (Jackson Bsmt./Family Rm)	ug/m^3	100	NS	NS	NS	NS	NS
44 Dutchess (First Floor/Kitchen)	ug/m^3	100	NS	NS	NS	NS	NS
34 Dutchess (Bsmt. Rec Room)	ug/m^3	100	NS	NS	NS	5 (PL)/5 (PL)	NS
34 Dutchess (Bsmt. Bdrm)	ug/m^3	100	NS	NS	NS	5 (PL)	NS
34 Dutchess (First Floor/Kitchen)	ug/m^3	100	NS	NS	NS	5 (PL)	NS
MSUP - Bld. 1 Basement, store room	ug/m^3	100	NS	NS	NS	ND	ND
MSUP - Bld. 1 First floor, southwest corner	ug/m^3	100	NS	NS	NS	ND/ND	5 (PL)
MSUP - Bld. First floor, northwest corner	ug/m^3	100	NS	NS	NS	ND	5 (PL)
MSUP - Bld. 2 First floor, front room	ug/m^3	100	NS	NS	NS	ND	5 (PL)
MSUP - Bld. 2 First floor, rear room	ug/m^3	100	NS	NS	NS	ND	ND
MSUP - Bld. 3 Basement, computer room	ug/m^3	100	NS	NS	NS	ND	5 (PL)/5 (PL)
MSUP - Bld. 3 First floor, office	ug/m^3	100	NS	NS	NS	ND	ND
MSUP - Play area southwest of Bld. 1	ug/m^3	100	NS	NS	NS	ND/ND	5 (PL)
Background	ug/m^3	100	NS	NS	NS	NA	NA

Notes:

Bold = Value exceeds NYSDOH guidance value.

MSUP = Miss Shelly's School - 66 Nassau Road.

KFC = 497 North Main Street.

All samples were sampled for Tetrachloroethene by NYSDOH Method 311-9.

NYSDOH Guidance Value references NYSDOH's "Tetrachloroethene in Indoor and in Indoor and Outdoor Air", May, 2003.

NS = Not sampled.

NA = Data not available.

ND = Non - Detect.

(PL) = value detected less thatn the reported value.

5 (PL)/5 (PL) = Indicates that the NCDOH collected a duplicate sample from this location

Attachment 4
Indoor Air Quality Data
NYSDEC - Jimmy's Dry Cleaner
61 Nassau Road, Roosevelt, New York

Sample Location	Units	NYSDOH Guidance Value	07/01/02	11/25/02	01/13/03	03/05/03	05/01/03
KFC - Kitchen	ug/m^3	100	NS	18	6.4	3.3	42
40 Dutchess (Bsmt. Living. Rm)	ug/m^3	100	5 (PL)	NS	NS	NS	NS
40 Dutchess (Bsmt. Bdrm/baby rm)	ug/m^3	100	5	1.0	5.2	24	NS
40 Dutchess (Kitchen/First Floor)	ug/m^3	100	NS	NS	NS	NS	NS
Deli - Front Room	ug/m^3	100	**230**	67	48	**119**	69
Deli - Storage Room (Back)	ug/m^3	100	NS	NS	NS	NS	NS
Dupe 1 (Deli - Front Room)	ug/m^3	100	NS	NS	49	NS	NS
Dupe 2 (40 Dutchess.Bsmt)	ug/m^3	100	NS	NS	NS	20	NS
Dupe 3 (Deli - Front Room)	ug/m^3	100	NS	NS	NS	NS	69
Dupe 4 (KFC)	ug/m^3	100	NS	NS	NS	NS	NS
44 Dutchess (Jackson Bsmt./Family Rm)	ug/m^3	100	14	7.4	NS	2.6	NS
44 Dutchess (First Floor/Kitchen)	ug/m^3	100	5 (PL)	NS	NS	NS	NS
34 Dutchess (Bsmt. Rec Room)	ug/m^3	100	NS	NS	NS	NS	NS
34 Dutchess (Bsmt. Bdrm)	ug/m^3	100	NS	NS	NS	NS	NS
34 Dutchess (First Floor/Kitchen)	ug/m^3	100	NS	NS	NS	NS	NS
MSUP - Bld. 1 Basement, store room	ug/m^3	100	NS	NS	NS	NS	NS
MSUP - Bld. 1 First floor, southwest corner	ug/m^3	100	NS	NS	NS	NS	NS
MSUP - Bld. First floor, northwest corner	ug/m^3	100	NS	NS	NS	NS	NS
MSUP - Bld. 2 First floor, front room	ug/m^3	100	NS	NS	NS	NS	NS
MSUP - Bld. 2 First floor, rear room	ug/m^3	100	NS	NS	NS	NS	NS
MSUP - Bld. 3 Basement, computer room	ug/m^3	100	NS	NS	NS	NS	NS
MSUP - Bld. 3 First floor, office	ug/m^3	100	NS	NS	NS	NS	NS
MSUP - Play area southwest of Bld. 1	ug/m^3	100	NS	NS	NS	NS	NS
Background	ug/m^3	100	NS	1.7	2.4	4.0	15

Notes:

Bold = Value exceeds NYSDOH guidance value.
MSUP = Miss Shelly's School - 66 Nassau Road.
KFC = 497 North Main Street.
All samples were sampled for Tetrachloroethene by NYSDOH Method 311-9.
NYSDOH Guidance Value references NYSDOH's "Tetrachloroethene in Indoor and Outdoor Air", May, 2003.

NS = Not sampled.
NA = Data not available.
ND = Non - Detect.
(PL) = value detected less thatn the reported value.
5 (PL)/5 (PL) = Indicates that the NCDOH collected a duplicate sample from this location.

Attachment 4
Indoor Air Quality Data
NYSDEC - Jimmy's Dry Cleaner
61 Nassau Road, Roosevelt, New York

Sample Location	Units	NYSDOH Guidance Value	09/23/03						
KFC - Kitchen	ug/m^3	100	5.9						
40 Dutchess (Bsmt. Living. Rm)	ug/m^3	100	NS						
40 Dutchess (Bsmt. Bdrm/baby rm)	ug/m^3	100	6.2						
40 Dutchess (Kitchen/First Floor)	ug/m^3	100	NS						
Deli - Front Room	ug/m^3	100	26						
Deli - Storage Room (Back)	ug/m^3	100	NS						
Dupe 1 (Deli - Front Room)	ug/m^3	100	NS						
Dupe 2 (40 Dutchess.Bsmt)	ug/m^3	100	NS						
Dupe 3 (Deli - Front Room)	ug/m^3	100	NS						
Dupe 4 (KFC)	ug/m^3	100	5.2						
44 Dutchess (Jackson Bsmt./Family Rm)	ug/m^3	100	NS						
44 Dutchess (First Floor/Kitchen)	ug/m^3	100	NS						
34 Dutchess (Bsmt. Rec Room)	ug/m^3	100	NS						
34 Dutchess (Bsmt. Bdrm)	ug/m^3	100	NS						
34 Dutchess (First Floor/Kitchen)	ug/m^3	100	NS						
MSUP - Bld. 1 Basement, store room	ug/m^3	100	NS						
MSUP - Bld. 1 First floor, southwest corner	ug/m^3	100	NS						
MSUP - Bld. First floor, northwest corner	ug/m^3	100	NS						
MSUP - Bld. 2 First floor, front room	ug/m^3	100	NS						
MSUP - Bld. 2 First floor, rear room	ug/m^3	100	NS						
MSUP - Bld. 3 Basement, computer room	ug/m^3	100	NS						
MSUP - Bld. 3 First floor, office	ug/m^3	100	NS						
MSUP - Play area southwest of Bld. 1	ug/m^3	100	NS						
Background	ug/m^3	100	6.2						

Notes:

Bold = Value exceeds NYSDOH guidance value.
MSUP = Miss Shelly's School - 66 Nassau Road.
KFC = 497 North Main Street.
All samples were sampled for Tetrachloroethene by NYSDOH Method 311-9.
NYSDOH Guidance Value references NYSDOH's "Tetrachloroethene in Indoor and Outdoor Air", May, 2003.

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ND = Non - Detect.
(PL) = value detected less thatn the reported value.
5 (PL)/5 (PL) = Indicates that the NCDOH collected a duplicate sample from this location.