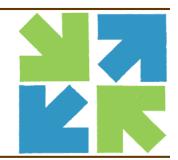
ENVIRONMENTAL MANAGEMENT, LTD.

On the Lake @ 41 Franck Road, Stony Point, New York 10980 Phone (845) 429-1141 • Fax (845) 429-1166



Internet: www.emlweb.com Email: info@emlweb.com

June 17, 2009

Carl Obermeyer New York State Department of Health 50 North Street, Suite 2 Monticello, New York 12701

Re: 2008 Soil Vapor Sampling at DPW, 15 Marbledale Road NYSDEC Site #V00237-3 Kings Electronics Co., Inc./Weissman Holdings, LLC(Kings) 40 Marbledale Road Tuckahoe, Westchester County, New York

Dear Mr. Obermeyer:

On behalf of Weissman Holdings, LLC, formerly Kings Electronics Co., Inc. (Kings), Environmental Management, Ltd. (EML) is providing a Soil Vapor Intrusion (SVI) Evaluation Report for its 2009 soil vapor investigation at the Tuckahoe Department of Public Works, 15 Marbledale Road (DPW). EML is also submitting a draft transmittal letter, addressed to the Village of Tuckahoe, for your review.

As you can glean from Table II of the attached report, trichloroethylene (TCE) is continuing to decrease within the sub-slab of DPW and the indoor air concentration has remained below $1.0 \,\mu g/m^3$ for a third consecutive year. Based on NYSDOH decision matrices, no soil vapor mitigation was required in the past and, as a result of the continued downward trend within the sub-slab, no mitigation is required now. With respect to PCE, based on the sampling results and the NYSDOH PCE decision matrix, no further action is required (as in the past).

Prior to this year's investigation, we had discussed discontinuing SVI activities at DPW based on the 2008-2009 heating season results. As you can see, there is a decreasing trend of sub-slab vapor concentrations at DPW. In addition, TCE concentration remains below $0.7~\mu g/m^3$ within the indoor air and the sub-slab concentrations will soon be below $50~\mu g/m^3$. Based on these findings, EML recommends that no additional actions are needed to address human exposures at this property. In addition to being a costly endeavor for Kings, it has been disruptive to the daily routine at DPW.

Please review the attached report and advise us if the draft transmittal letter is approved. Once approved, EML will send the Village of Tuckahoe the approved letter with applicable attachments.

Please call me after your review of this submittal if you have any questions or need to further discuss discontinuing SVI activities at DPW.

Yours truly,

Environmental Management, Ltd.

Donald J. Wanamaker

Donald J. Wanamaker President

encl. Soil Vapor Intrusion Evaluation Report, 2009

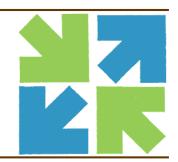
Draft June 23, 2009 letter to Village of Tuckahoe Building Dept.

cc: Nicole M. Bonsteel P.E., NYSDEC

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Soil Vapor Intrusion Evaluation Report - 2009 Tuckahoe Department of Public Works (DPW) 15 Marbledale Road Tuckahoe, New York

On behalf of Weissman Holdings, Inc. (formerly Kings Electronics Co., Inc.-NYSDEC Site #V00237-3), Environmental Management, Ltd. (EML) conducted a soil vapor intrusion (SVI) evaluation pursuant to an Off-Site Investigation Work Plan, revised in December 2005 (OSIWP). The OSIWP was conditionally approved by the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH), collectively the "State", on February 13, 2006. In the OSIWP, Kings agreed to conduct SVI evaluations at the Village of Tuckahoe Department of Public Works (DPW), commercial property located at 15 Marbledale Road. SVI evaluations were conducted in March 2006, March 2007 and March 2008. A May 28, 2008 SVI Evaluation Report was provided to NYS DOH and NYS DEC summarizing the March 26, 2008 SVI evaluation. Based on results of that report, re-sampling of DPW was to be conducted during the next (i.e.; 2008-2009) heating season. This report summarizes the February 19 inspection and March 12, 2009 SVI evaluation and its results.

A. DPW Facility Description

A floor diagram of this facility is included in Attachment A. The employee occupied space at the facility consists of a single level masonry building with a concrete floor. The primary entrance is located at the southern side within the DPW property yard. Upon entering the building, there is a corridor that is lined with employee lockers and which leads to the common bathroom and lounge area to the back (i.e.; to the north). Immediately to the right of the main entrance, south side of the building, is the interior entrance door to the main office. The main office consists of a central area, containing the foreman's desk and a coffee station. The Superintendent's office is on the left (north side of this area), and a bathroom and closed utility/storage room to the east towards Marbledale Road. Located within the northern half of the DPW building is a common bathroom and employee break/lounge area. At the northwest corner of the lounge area there is a utility closet that includes the gas-fired boiler, hot water heater, and incidental storage space. There is an exit door in the lounge area that opens to the east side of the building, allowing access to Marbledale Road.

The main office area is primarily occupied by the foreman, when he is not in the field during the work day. Employees typically meet in this area at the beginning and the end of the work shift. The work shift is generally 6:30 a.m. to 3:00 p.m.

B. Preparation for Sub-Slab Vapor and Indoor/Outdoor Air Sampling

On February 19, 2009, EML conducted a pre-sampling inspection and inventory. The standard "New York State Department of Health Indoor Air Quality Questionnaire and Building Inventory" prescribed by the Center for Environmental Health was completed (included as Attachment A). A visual inspection of the utility/storage room was performed and it was noted

that the room contained the following: light bulbs/fixtures, "ready for use" fuel-powered tree cutting equipment and a supply of pesticides/herbicides, caulks/sealers, spray paints, cleaners, lubricants and fuel additives (all sealed and unused). A representative inventory was recorded, and photographs of the room's contents taken. According to the foreman, the utility room door is normally closed throughout the work day. The DPW building was surveyed for volatile organic compounds (VOCs) by the use of a "ppb Rae" photo ionization detector (PID) instrument that measures both in the ppb and ppm range. Measurements were in the range of 50 to 350 ppb VOC. The highest levels, 250 to 350 ppb, were recorded within the utility/storage room when the door was initially opened. See Floor Plan, for field instrument readings, on page 6 of Attachment A. A survey of the common office area indicated 50 to 70 ppb VOC. A survey of the gas furnace area indicated 140 to 160 ppb VOC. Readings of 110 ppb VOC were obtained within a floor drain in the break/lounge area, both with and without a humidity filtering tube. The employee break/lounge area readings ranged from 120 to 130 ppb VOC; the side exit door was partially open for most of the day.

The Superintendent and foreman were informed of the procedures and requirements for indoor air quality sampling and were instructed to please keep all doors and windows closed the day of monitoring.

The following floor penetrations were noted and recorded in the IAQ Questionnaire (Attachment A): 3' x 4' x 2' sewer cleanout box and two circular floor drains in the employee break/lounge area. Both bathrooms were finished with ceramic tile; the water supply and drain penetrations were well sealed. The gas supply line for the furnace is above ground. No cracks or floor penetrations were observed in the supervisor office area.

In preparation for sampling, 6-liter Summa canisters (certified clean and each having a vacuum pressure of -30 inches Hg) and flow controllers calibrated for 8-hour collection periods, were obtained from Columbia Analytical Services, Inc. Air Quality Laboratory (CAS), located in Simi Valley, California (NELAP NY lab ID No:11221). A Radiodetection Model MGD-2002 helium leak detector was also obtained for use in determining the seal integrity of the vapor probe. A 5-gallon bucket was prepared as a gas-tight enclosure for testing the probe seal integrity for the duration of the sub slab vapor sampling period.

C. Sampling Procedures: Sub-Slab Air Sampling

On March 12, 2009, EML's CIH and field manager, as well as a technician from Geovation Engineering, P.C. arrived at the DPW facility at 6:30 a.m. to commence sub slab vapor sampling concurrently with office indoor air and representative outdoor air sampling. The DPW Superintendent and foreman were again advised of all activities that could potentially impact the sampling results and were asked to keep all doors/windows closed. At the commencement of sampling (approximately 7:40 a.m.) the outdoor temperature was 45° F (relative humidity 27 %), indoor temperature was 65-70° F (relative humidity 30%), and the heating system was operating. It was a clear day, no precipitation, with a fresh wind from the northeast.

The DPW building was surveyed for volatile organic compounds (VOCs) by the use of a "ppb Rae" PID instrument. Measurements were in the range of 150 to 900 ppb VOC. The higher levels, 500 to 900 ppb, were within the utility/storage room, elsewhere 150 to 250 ppb VOC. See Floor Plan, for field instrument readings, on page 6 of Attachment A.

The main office area was closely inspected to confirm that the prior year (i.e.; March 26, 2008) temporary sub-slab vapor probe position could be replicated. It was determined that the concrete floor area within the main office, near the Superintendent's office entry, remained the best choice

for a temporary probe installation. The sampling location is indicated on the DPW facility floor plan on page 6 of Attachment A.

At this location, Geovation drilled a 3/8" diameter hole through the concrete floor into the subslab aggregate. Teflon-lined polyethylene tubing of ¼" diameter (the probe line) was inserted into the hole, extending 2" into the sub-slab material. Permagum was used to seal the tubing in the hole. The tubing was then passed through a predrilled hole in the bottom of the inverted 5gallon bucket, and sealed in place with Permagum. The bucket was then placed over the sampling hole and the rim circumference sealed to the concrete floor with Permagum in order to create an air tight seal and limit the intrusion of ambient air to the sampling point. Immediately thereafter, a PID (Thermo Electron Model 580B OVM) was attached to the probe line and the line was purged for approximately 5-minutes until a 1 liter tedlar bag was full. The bucket was filled with Helium gas through a fitting preinstalled in the side of the bucket, near its bottom. The probe line was then connected to the MGD 2002 helium leak detector to determine the efficacy of the seal where it penetrated the floor. No Helium was detected, demonstrating that the probe line was well sealed. Directly after the Helium measurement, the probe line was connected to a Summa canister and the associated flow controller (pre-calibrated by the lab for an 8-hour sampling period, approximately 0.01 liters per minute). The flow controller valve was opened and the sample start time was recorded. The sample ID for the temporary sub-slab vapor point was labeled DPW-1 and the corresponding Canister ID and Flow Controller ID were AC00948 and FC00587, respectively. Sampling start time was approximately 7:40 a.m. and stop time was approximately 3:15 p.m. on 3/12/2009. Although DPW closes at 3:00 p.m., the Superintendent stayed until sampling was completed.

At the end of the sampling period, the canister flow valve was closed, flow controller removed, and shipping cap reinstalled at threaded inlet to canister. All data was recorded on the Field Log and the Chain of Custody. The probe hole was sealed with "quick-drying" cement and smoothed over.

D. Indoor and Outdoor Ambient Air Sampling

Indoor sampling of the main office was performed in the area between the supervisor's desk and the Utility/Storage room. A 6-liter Summa canister, equipped with a flow controller that was lab-calibrated for 8-hour sampling, was set in this area and the sampling intake was at approximately 31/2 to 4 ft. height (within the "living/breathing zone"). Sampling in this area started at the same time as the sub-slab vapor sampling commenced. The sample ID was designated DPW-2 (Canister ID AC01164/Flow Controller FC00355). Sample start time was approximately 7:40 a.m. and stop time was approximately 3:15 p.m. on 3/12/2009. At the end of the sampling period, the canister valve was closed, the flow controller removed and shipping cap reinstalled at threaded inlet to canister. All data was recorded on the field log and the Chain of Custody. The sampling location is indicated on the DPW floor plan on page 6 of Attachment A.

On this same sampling date, a 5½-hour outdoor air sample was obtained at the northeastern side of the DPW property, on the west side of Marbledale Road, and just north of the exit from the DPW break/lounge area. A 6-liter Summa canister, equipped with a lab-calibrated 8-hour flow controller, was placed atop a stool and the canister inlet was at approximately 3 to 4 feet height. The sample ID was designated DPW-3 (Canister ID AC01103/Flow Controller FC00492). Sample start time was approximately 7:45 a.m. and stop time was approximately 1:15 p.m. on 3/12/2009. Sampling time was ended sooner than anticipated due to canister pressure at -1.5" Hg. At the end of the sampling period, the canister valve knob was closed, the flow controller removed, and shipping cap reinstalled at threaded inlet to canister. All data was recorded on the

field log and the Chain of Custody form. The sampling location is indicated on the floor plan of the DPW facility on page 6 of Attachment A.

At the conclusion of sample collection, the foreman's office was resurveyed with the "ppb RAE" PID. VOC measurements ranged from 80 to 120 ppb. Within the utility/storage room (which door had been closed) measurements from 600 to 1100 ppb VOC were obtained.

E. Laboratory Analysis

All Summa canister samples and the field/trip blank from the March 12, 2009 sampling event were shipped with Chain of Custody, via Federal Express, to Columbia Analytical Services (CAS) at their facility in Simi Valley, California (NELAP NY Lab ID No. 11221). A seal was placed at the closure points on the outside of the box used for shipping to CAS. The package was securely taped for shipping.

All samples were analyzed for volatile organic compounds (VOCs) utilizing USEPA Method TO-15 (full parameter list) and in accordance with the Quality Assurance Program of CAS. A summary of the analytical results for DPW is reported in Table I.

TABLES AND ATTACHMENTS

The following tables and attachments are included as part of this report.

Table I – Findings, March 2009 Air Sampling

Table II – Results from March 2006 through March 2009 Air Sampling

Attachment A –New York State Department of Health Indoor Air Quality Questionnaire and Building Inventory for DPW prepared by EML 2/19 to 3/12/09.

Personnel:

Name	Title	Organization
Donald Wanamaker	President	Environmental Management, Ltd.
Melinda Horan	Certified Industrial Hygienist	Environmental Management, Ltd.
Bruce Munson	Project Manager	Environmental Management, Ltd.
Matt Mordas	Field Operations Manager	Geovation Engineering, PC

TABLE I

TABLE I

Findings, March 2009 Air Sampling

Village of Tuckahoe Department of Public Works (**DPW**) 15 Marbledale Road, Tuckahoe, Westchester County, New York

Results are reported in micrograms per cubic meter ($\mu g/m^3$ or mcg/m^3)

Indoor Air, Office Sub-Slab, Office **Outdoor Air** Compound March 2009 March 2009 March 2009 **DPW-2** AC01164 **DPW-1** AC00948 **DPW-3** AC01103 Trichloroethene 0.68 85 --Tetrachloroethene 26 1,1,1-Trichloroethane 14 cis-1,2-Dichloroethene ----37 31 Acetone Benzene 4.4 3.2 1.0 Carbon Disulfide 2.4 --Chloroform 39 --Ethylbenzene 4.7 18 73 17 m&p-Xylenes 0.942-Butanone (MEK) 8.5 1.9 0.95 4-Methyl-2-pentanone (MIBK) Methylene chloride ---o-Xylene 27 6.8 2.2 Toluene 60 30 Trichlorotrifluoroethane 0.83 0.72 0.72 Trichlorofluoromethane 1.6 1.7 1.7 1,4-Dichlorobenzene --2.9 --2-Hexanone 1.8 Vinyl Acetate --Carbon Tetrachloride 0.69 0.56 0.62

⁻⁻ Not detected above quantification limit

	Indoor Air, Office	Sub-Slab, Office	Outdoor Air
Compound	March 2009 DPW-2 AC01164	March 2009 DPW-1 AC00948	March 2009 DPW-3 AC01103
Additional, 2009:			
Propene	16	2.6	0.82
CFC-12	3.3	4.9	3.3
Chloromethane	0.86		0.82
Ethanol	86	48	
Acrolein	0.72	0.89	
2-Propanol	67	8.5	0.83
MTBE		1.9	
Ethyl Acetate	2.8	12	1.0
n-Hexane	10	2.7	
Tetrahydrofuran (THF)			
Cyclohexane	3.0	2.4	
n-Heptane	6.1	7.2	
n-Butyl Acetate		28	
n-Octane	2.6	6.7	
Styrene		6.0	
n-Nonane	2.8	14	
Cumene	0.65	1.8	
alpha-Pinene	2.4	3.1	
n-Propylbenzene	4.3	8.0	
4-Ethyltoluene	8.3	16	
1,3,5-Trimethylbenzene	8.2	15	
1,2,4-Trimethylbenzene	30	55	
d-Limonene	40	17	
Naphthalene	1.4	5.6	

⁻⁻ Not detected above quantification limit

TABLE II

TABLE II

Results of 2006 through 2009 Soil Vapor Sampling -- DPW

DPW-2

Village of Tuckahoe Department of Public Works - 15 Marbledale Road, Tuckahoe, Westchester County, New York

Results are reported in micrograms per cubic meter ($\mu g/m^3$ or mcg/m^3) DPW-3

DPW-1

Indoor Air, Office Sub-Slab, Office **Outdoor Air** Compound March 2007 2008 2009 2007 2008 2009 2006 2007 2008 2009 2006 2006 130* Trichloroethene 0.62*0.68 85 0.43 0.35* ND 1.6 0.95 170 160 30 26 1.2 1.0 0.51 26 32 0.27 ND Tetrachloroethene ND 0.96 0.7723 19 16 14 1,1,1-Trichloroethane ND ND ND ND ND ND ND ND cis-1,2-Dichloroethene ND Acetone¹ ND ND 25 37 ND ND 16^{2} 31 ND ND 7.9 ND 3.2 2.7 1.5 5.5 3.4 3.0 4.4 0.73 ND 1.0 1.0 Benzene 1.1 2.9 Carbon Disulfide ND ND ND 2.4 0.78 ND ND ND ND 12 4.6 53 39 Chloroform 61 ND ND ND ND ND ND ND ND Ethylbenzene 6.7 4.5 4.2 4.7 ND ND 5.2 18 1.5 ND ND ND 23 73 5.2 m&p-Xylenes 19 18 17 1.5 2.9 20 2.6 1.3 0.94 2-Butanone (MEK) 3 ND 14 2.1 ND 3.0 8.5 ND 1.7 0.95 1.9 ND ND 4-Methyl-2-pentanone (MIBK) ND 4.0 2.9 ND 0.89 Methylene chloride 0.93 ND ND ND ND ND ND ND ND ND

^{*} Trichloroethene was detected within the trip blank at 0.40 µg/m³

¹ Due to acetone detected in the trip blank in 03/06 sampling, the general reporting limit of acetone was revised to 73 μg/m³. Acetone detected in trip blank during the 03/07 sampling resulted in a revised reporting limit of 89 µg/m³.

² Matrix interference due to coelution with a non-target compound; results may be biased high.

³ Due to methyl ethyl ketone (MEK) detected in the trip blank in the 03/06 sampling, the general reporting limit of MEK was revised to 9 µg/m³. MEK detected in trip blank during the 03/07 sampling resulted in a revised reporting limit of 10 µg/m³.

o-Xylene	7.9	6.3	5.9	6.8	ND	1.4	17	27	1.9	ND	ND	
Toluene	32	21	22	30	6.0	1.8	7.5	60	9.3	6.8	2.3	2.2
Trichlorotrifluoroethane	ND	ND	ND	0.72	0.87	0.71	ND	0.83	ND	ND	ND	0.72
Trichlorofluoromethane	1.4	1.3	1.2	1.7	1.4	1.2	1.2	1.6	1.4	1.4	1.2	1.7
1,4-Dichlorobenzene	45	1.2	ND	ND	ND	ND	ND	2.9	2	ND	ND	ND
2-Hexanone	0.94	ND	ND	ND	3	ND	ND	1.8	ND	ND	ND	ND
Vinyl Acetate ⁴	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon Tetrachloride	ND	0.91	ND	0.56	ND	ND	ND	0.69	ND	ND	ND	0.62
Additional - 2009:					 							
Propene				16				2.6				0.82
CFC-12				3.3				4.9				3.3
Chloromethane			ND	0.86			ND	ND			ND	0.82
Ethanol				86				48				ND
Acrolein				0.72				0.89				ND
2-Propanol				67				8.5				0.83
MTBE			ND	ND			ND	1.9			ND	ND
Ethyl Acetate				2.8				12				1.0
n-Hexane				10				2.7				ND
Tetrahydrofuran (THF)				ND				ND				ND
Cyclohexane				3.0				2.4				ND
n-Heptane				6.1				7.2				ND
n-Butyl Acetate				ND				28				ND
n-Octane				2.6				6.7				ND
Styrene			ND	ND			ND	6.0			ND	ND
n-Nonane				2.8				14				ND
Cumene				0.65				1.8				ND

 $^{^4}$ Due to vinyl acetate detected in the trip blank during the 03/07 sampling, the general reporting limit of vinyl acetate was revised to 26.5 μ g/m³.

alpha-Pinene	2.4	3.1	ND
n-Propylbenzene	4.3	8.0	ND
4-Ethyltoluene	8.3	16	ND
1,3,5-Trimethylbenzene	8.2	15	ND
1,2,4-Trimethylbenzene	30	55	ND
d-Limonene	40	17	ND
Naphthalene	1.4	5.6	ND

 $ND \;\;$ Not detected above quantification limit

ATTACHMENT A

NEW YORK STATE DEPARTMENT OF HEALTH INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Bruce M. Munson Date/Time Prepared 2/19/09-3/12/09
Preparer's Affiliation Environmental Mgt. Ltd Phone No. 845-429-1141
Purpose of Investigation SVI Investigation - 4th year
1. OCCUPANT: Superintendent of Public Works Interviewed: ON DPW office at yard
Last Name: DI Marco First Name: Frank
Address: 15 Marbledale Road, Tuckahoe, NY 10707
County: Westchester
Home Phone: 914-961-3100, #3
Number of Occupants/persons at this location 2-5 Age of Occupants Constant turnover during work day 6:30am - 3:00 pm
2. OWNER OR LANDLORD: (Check if same as occupant)
Interviewed: YN Village of Tuckahoe
Last Name:First Name:
Address: 65 Main Street, Tuckahoe, NY 10707
County: Westchester
Home Phone: 914.961-3100
3. BUILDING CHARACTERISTICS
Type of Building: (Circle appropriate response)
Residential School Commercial Multi-use Industrial Church Other:

If the property is resident	ial, type? (Circle appro	priate response)
Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:
If multiple units, how man	ny?	
If the property is commer		
Business Type(s)	epavlment of	Public Works - Yard office a employee (N) If yes, how many?
Does it include residen	ices (i.e., multi-use)? Y	N If yes, how many?
Other characteristics:		
Number of floors	В	uilding age 1957, appvox.
Is the building insulate	d? Y (N) H	ow air tight? Tight / Average / Not Tight
4. AIRFLOW		
Use air current tubes or t	racer smoke to evaluat	e airflow patterns and qualitatively describe:
Airflow between floors		
NA		
		111
Airflow near source		
NA - NO KI	nown source	
Sand to the second state of the second state of		
Outdoor air infiltration		1 1 1
Exit door t	rom "Break	Area" ajar Hallway entrance door from
yard opened	/closed by I	DPW employees continually.
'All windows	s a skylight	Area" ajar Hallway entrancedoor from DPW employees continually closed.
	, 5	
Infiltration into air ducts		
NA		

5. BASEMENT AND CO One floor	nstruction, on-grad	CHARACTER e Concret	NSTICS (Circle all tl とらなわ・	at apply)	
a. Above grade constru	0.1	frame conc	5,000,000	brick	
b. Basement type: NA	full	craw	Ispace slab	other	
e. Basement floor: N	A coner	cte dirt	stone	other	
d. Basement floor: N	A uncov	ered cove	red covered y	rith	
e. Concrete floor:	unsea	led) seale	ed sealed wi	h	
f. Foundation walls:	poure	d (bloc	stone	other	
g. Foundation walls:	unsea	led scale	d scaled wi	h	
h. The basement is: N	A wet	dam	o dry	moldy	
i. The basement is: N	A finish	ed unfir	nished partially f	inished	
j. Sump present?	Y (N)			
k. Water in sump?	Y/N/not ap	olicable			
Basement/Lowest level dep	th below grade: _	(feet)	on-grade		
Identify potential soil vapor	r entry points and	l approximate	size (e.g., cracks, ut	lity ports, drains)	
Sewer deanou	at, 31 x 4	1 x 21/2	deep, below	u Floor@ NE corn	er
of "Break Ro	om". Two	floor d	rains in Br	u Floor@ NE corn eak Room" area.	
6. HEATING, VENTING	and AIR COND	TIONING (C	ircle all that apply)		
Type of heating system(s) u	sed in this buildi	ng: (circle all t	hat apply – note pri	nary)	
Hot air circulation	Heat p		(Not water baseboa	rd	
Space Heaters Electric baseboard	Stream Wood	radiation stove	Radiant floor Outdoor wood boi	ler Other	
The primary type of fuel us	ed is:				
(Natural Gas)	Fuel C	řil	Kerosene		
Electric	Propa		Solar		
Wood	Coal				
Domestic hot water tank fue	eled by: Natu	ival Gas			
Boiler/furnace located in:	Basement	Outdoors	(Main Floor)	Other	
Air conditioning:	Central Air	Window units	Open Windows	None	

Are	there	air	distributi	on ducts	present?
	****	ander.	STATE OF THE PARTY OF		The Royal Control of the State

		-	
V	6	M	1
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	•	_	r

Describe the	e supply and cold air return ductwork, and its		
			The second secon
7. OCCUP	ANCY		
Is basement	/lowest level occupied? Full-time Occ	asionally	Seldom Almost Never
Level	General Use of Each Floor (e.g., familyro	om, bedro	om, laundry, workshop, storage)
Basement	NA		
1 st Floor	Foreman office Superin	itende	nt office Break Area
2º Filoor	Foreman office Superior Storage, 2 bathrooms, f	urnac	eroom.
3 rd Floor	NA		1
4 th Floor	1		
		OXI LX YOU	
	RS THAT MAY INFLUENCE INDOOR AIR	QUALITY	· · · · · · · · · · · · · · · · · · ·
a. Is there	an attached garage?		N.
b. Does th	c garage have a separate heating unit?		Y/N (NA)
	roleum-powered machines or vehicles in the garage (e.g., lawnmower, atv, car)		(Y)/N/NA Please specify DPW trucks etc
d. Has the	building ever had a fire?		Y / N When?
e. Is a ker	osene or unvented gas space heater present?		Y (N) Where?
f. Is there	a workshop or hobby/craft area?	ИŴ	Where & Type?
g. Is there	smoking in the building?	N	How frequently?
h. Have c	leaning products been used recently?	(V) N	When & Type?
i. Have co	smetic products been used recently?	Y/N	When & Type?

j. Has painting/st	aining been done	in the last 6 m	onths? Y (N)	Where & W	hen?	
k. Is there new ca	rpet, drapes or o	ther textiles?	Y (N	Where & Wi	hen?	
l. Have air freshe	ners been used re	cently?	Ŋ N	When & Typ	ne?	
m. Is there a kitcl	hen exhaust fan?	NA	Y/N	If yes, where	vented?	_
n. Is there a bath	room exhaust far	n?	(Ŷ)N	If yes, where	vented?	
o. Is there a cloth	es dryer?		Y /(N)	If yes, is it v	ented outside? Y / N	F
p. Has there been	a pesticide appli	cation?	Y/N	When & Typ	oe? Storage o	n-site
Are there odors in If yes, please des	n the building? cribe: <u>Gasolic</u>	ne/oil/ext	aust, truck	s,gastra	eepruner to	storag
Do any of the buildi (e.g., chemical manu boiler mechanic, pest	facturing or labora	tory, auto mech		shop, paintin	g, fuel oil delivery,	
If yes, what types	of solvents are use othes washed at wo	d? <u>Petvole</u> Public Work?	um based ovks operat	and other ions/mai	VOCs routi Interiance	ne to
Do any of the buildi	ng occupants reg	ularly use or w	ork at a dry-clea	ming service?	(Circle appropriate	
Yes, use dry-	cleaning regularly cleaning infrequer a dry-cleaning ser	itly (monthly or	r less)	No Unknown		
Is there a radon mit Is the system active		r the building/s Active/Passive)Date of Insta	llation:	
9. WATER AND SE	WAGE					
Water Supply:	Public Water	Drilled Well	Driven Well	Dug Well	Other:	
Sewage Disposal:	Public Sewer	Septic Tank	Leach Field	Dry Well	Other:	
10. RELOCATION	INFORMATION	(for oil spill r	esidential emerg	ency)		
a. Provide reaso	ns why relocation	is recommend	led:			
b. Residents cho	ose to: remain in l	iome reloc:	ite to friends/fam	ily reloc	ate to hotel/motel	
c. Responsibility	for costs associat	ed with reimb	ursement explaii	ned? Y/N		
d. Relocation pa	ckage provided a	nd explained to	residents?	Y/N	Ī	

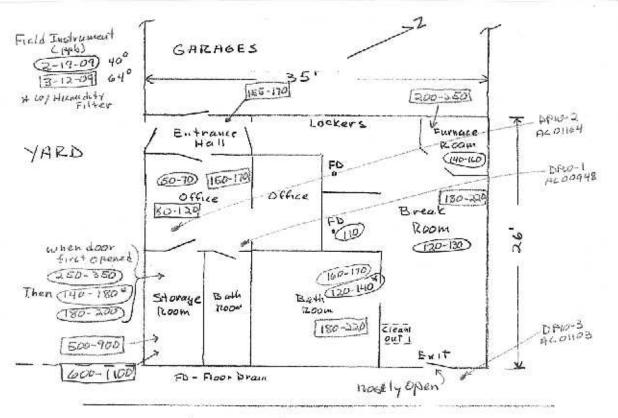
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement: NA

8:50			one room 1		8:30 W	eather 40°	
ļļ <u>i</u>	opened	door -	250-350		\downarrow \downarrow \downarrow \downarrow	leaving	4
	repeat	w/humid	H 140-180			11111	-
	<u> </u>	wjo "	180 - 200		51	now/rain ove	rnic
	i.e. air	edout			gvi	ound + Street Still wet	S
Straightful and Straightful						이 그렇게 그렇게 느낌이다고 되었다고 있네요?	
	PIDze	roed w/v	oc tube suppli	ied			
	PIDzei	roed W/Y	oc tubesuppl	ied			
	PIDzei	roed W/V	oc tube suppli	ied			
	PIDze	roed w/V	06 tubesuppl	ed			
	PIDze	roed w/V	06 tubesuppl	ed			

First Floor:

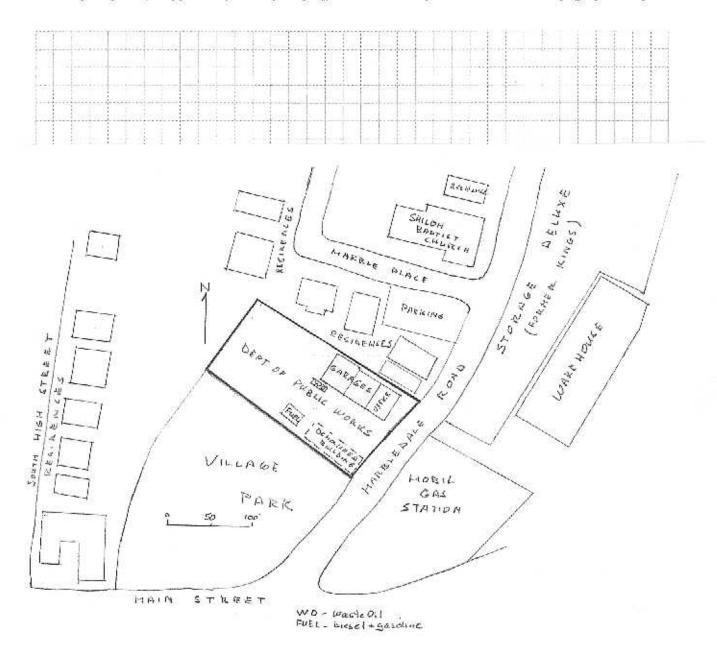


MARRIEDALE ROAD

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Pob RAE Model PGM 7240

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (nuits)	Photo X/N
office	Closet Storage					
	zero-in sok Flying Insect Killer	12x 16.50z	ио	Resmethyin Propane - Isotuolane		У
	Impact zone Detergent Disinfectant	3 gal.	uo	Alkyl dimethylethylbenzyl ammonium chloride	カ	N
	CLR Emulsified windo	ы н х 17³/4юz	uo	2 butoxyethanol, isobutane propane	Ш	У
	Kibosh Wasp, Hornet, Bee Killer	12x 14 oz.	ио	Tetramethrin Pyremethrin	0	У
	Prestige 1K-221 Flying Insect Killer	6× 1402.	Uo	Tetramethrin	P	N
	Aervõe construction	24x	40	Xylene, petroleum naptha n-hexane	Ð	Y
	Designate Marking Paint	24 x	uо	Propane n-butane tokiene, xylene	- A	Y
	Zero-in WAS Wasp + Hornet Killer	19 x 140z.	uo	Tetramethrin	•	У
	Aervae striping	20 x	uo	Xylene, acetone, petroleum naptha, mineral spirits	0	Y
	3M spray adhesive	2 x	uo	Dimethyl ether, methyl acetate	Z	У
	Prestige Ultracoat- rubberized coating	6 x 16cz.	Uo	calcium carbonate, asphalt toluene, propane, mineral sp	77	У
	Bloom + Doom Weed + Feed	Ax 12 gal.	uo	24-D, Mezoprop, Dichloropup	0	У
	Thuricide concentrate	12 x 1602.	uo	Bacillus Thuringiensis	0	У
	Drummond Impervious		40	crack i joint sealant 1/2" x 75' sealant cord	₹	N
	Gas/oil tree trimmer	-		gasoline, motor oil	PL	2
	Poulan Pro Bar + Chain oil	194.	0	W. Reddye	A	
	Drummond Conjure Plumeria	3Q+,			Z	
	Scram Liquid Drain Opener	IIQt.	uo	Sulfuric Acid 7664-93-9 Corresion lahibitor 109-116-6	5	

^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

^{**} Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: PPB RAE Model PGM 7240

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition'	Chemical Ingredients	Field Instrument Reading (units)	Photo " Y/N
OFF	ce				N- N-	
	Antibacterial most towelettes	120 5×8"	ч	Benzalkanium chloride SD Alcohol 0.13%		
	Sore throat lozenges		и	hexyresorcinol	ア	
	Robitussin Max. Strength cough		и		_ 0	
	Poisin ivy oil remove	-	и	mineral spirits, propylene glycol, mixed fatty acidscap	, 0	
	Itchycool lyxitch relief		и	Benzalkonium chloride	70	
	Antiseptic wipes		и		W	
	Clear Eye		u ·		0	
	Blood clothing spray		и		7.	
	Can't bile me	1110-000	и	Deet 30%		
	3 in First Aid		и		π	
	Hydrocortizone Anti-		и		0	
DEFIC	E Bathroom		n -		0	
	Zottig Hand Cleaner	19.	ч	polyvinylchloride, propylen glycol, fragrance	e D	
	Tractite Instant concrete repair	59.	и	J. J	ρL	
18	"Mystrc" Prestige concentrated deaner degree	5 x	40	NaOH, sodium metarylicate	A Z	
	Mystic Conjure Apple Blossom	lat.	u	Isopropounal, 2 butylethand hydrous magnesium sylicate		
	Flash Autimicrobial	3 x	ч	Chemsearch divot NCH Corp. Kills HIV-LOASerface	حق	
	Breath O'Pine	~804			6	

^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

^{**} Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: Ppb RAE Model PGM 7240

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition'	Chemical Ingredients	Field Instrument Reading (units)	Photo '
Office	Bathroom - contin	nued				100
	Fantastic spray	IQT.	и			
	Ajax W. bleach	2102	u		Д Т	
Emloye	e Bathroom Lar	1e			0	
	Zoftig lotion hand cleaner-grit scrubbers	19.	7 40 1 4	polyvinyl chloride, propylene glycol, fragrance In carton	CORD PA	
	Breath O'Pine	2802	3 uo 2 u	In carton (Brond ow Inc., Tuchahoc)	m	
	Clean & Fresh All purpose	2802.		,	9	A-11
	Cleaner Lavender		(5)		NO NO	
	Prestige Mystic concentrated cleaner	lar.			TI	
Furnac	e Room				10	
	Slip N Slide Asphalt Release Agent		uo	111	カ	
	Drummond American		ted down		19	
					PLAN	
					Ġ	
					e	
						2

^{*} Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)

^{**} Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

<u>Tuckahoe DPW Photos – March 2009</u>

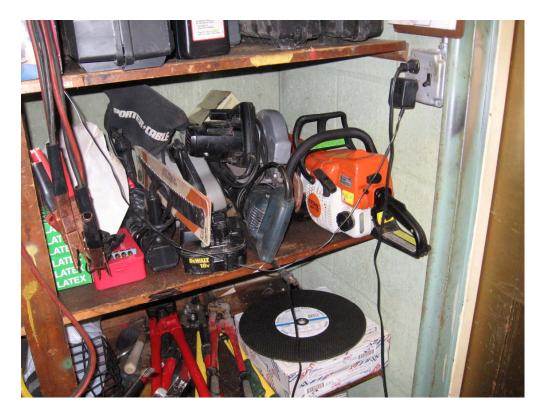
Office Storeroom











Employee Bathrooms





Furnace Room-Break Room





DPW-1, Sub-Slab 2009



DPW-2, Indoor 2009



DPW-3, Outdoor Ambient 2009



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Internet: www.emlweb.com Email: info@emlweb.com

June 23, 2009

Mr. Bill Williams Village of Tuckahoe Building Department 65 Main Street Tuckahoe, New York 10707

Re: Soil Vapor Intrusion (SVI) Evaluation Indoor Air Sampling Results-March 2009 15 Marbledale Road, Tuckahoe, Westchester County

Dear Mr. Williams:

On March 12, 2009, Environmental Management, Ltd (EML), on behalf of Weissman Holdings, LLC, formerly Kings Electronics Co., Inc. (Kings), collected three air samples (the 2009 Sampling) from the Village of Tuckahoe's Department of Public Works, located at 15 Marbledale Road in Tuckahoe (the Building). These samples were taken at the request of the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH), collectively the "State," and were a follow-up to sub-slab soil vapor sampling that occurred on March 10, 2006, and then yearly soil vapor intrusion sampling on March 30, 2006 (the 2006 Sampling), March 22, 2007 (the 2007 Sampling), and March 26, 2008 (the 2008 sampling). The results of the prior sampling were reported to you in my letters of March 23, 2006, July 19, 2006, November 7, 2007, and July 3, 2008.

The current sampling included one sub-slab soil vapor sample, one indoor air sample from the Building's office area and one outdoor air sample. The air samples were sent to a NYS ELAP certified laboratory to test for trichloroethene (TCE), tetrachloroethene (PCE) and other volatile organic compounds (VOCs). TCE is a VOC commonly used as a solvent to remove grease from metal. PCE is a manufactured chemical that is widely used in the dry-cleaning of fabrics, including clothes. It is also used for degreasing metal parts and in manufacturing of other chemicals. These samples were collected as part of an on-going investigation of "soil vapor intrusion" of VOCs (see enclosed titled *Soil Vapor Intrusion: Frequently Asked Questions* for more information) in the area surrounding the former Kings building.

We have evaluated the sample results and have attached a table that sets forth the results of the 2009 Sampling, as well as the 2006, 2007, and 2008 Sampling. TCE is trending downward in indoor air (from $1.6~\mu g/m^3$ in 2006, to 0.95 in 2007 to 0.62 in 2008 and leveling there at 0.68 in 2009) and in the sub-slab (from 170 to 160 to 130 to 85 respectively). The 2009 TCE sampling results fall into a range where NYSDOH allows either no further air sampling or further monitoring. (PCE soil vapor is not a concern as, based on all yearly PCE results, no further action would be required). Kings is recommending that no

further air sampling at DPW is required based on this decreasing trend in TCE. The concentration detected in the sub-slab is not expected to significantly affect indoor air quality. A more detailed evaluation of the sampling results follows.

SAMPLING RESULTS

Chemicals are part of our everyday life. They are found in the many products we use such as cleaners, glues and paints. They are also found in new furniture, carpet or freshly dry-cleaned clothing. Similarly, chemicals are also found in outdoor air because of gasoline stations, dry cleaners or other commercial/industrial facilities. Commonly found concentrations of these chemicals in indoor air and outdoor air are referred to as "typical background levels." These levels are determined from the results of samples collected in homes, offices and outdoor areas not near known sources of VOCs (for example, a home not known to be near a chemical spill, a hazardous waste site, a dry-cleaner, or a factory).

To help assess the type of VOCs suspected to be in the air in and around your Building, EML collected three air samples. In addition, in February and March of 2009, an indoor air quality questionnaire and building inventory were completed. A copy of the completed questionnaire and inventory form is enclosed. It includes a list of products present in your Building that might contain VOCs.

During the inventory, the investigation also used a real-time vapor meter (also known as a photoionization detector, PID) that detects many VOCs that may be in the air. This instrument was used to help determine if products containing VOCs and stored or used in your Building might be contributing to the levels detected in the air samples. The PID readings recorded on the DPW office floor plan (labeled "Field Instrument Reading" on page 6 of the inventory form) indicate whether VOCs are being released from the stored products used within your indoor air.

We have summarized the results of the three air samples in the enclosed Table I, as well as a comparison in Table II of the 2009 results with 2006, 2007, and 2008 results. We are also enclosing the laboratory report for each sample collected in 2009. The sample identification number is found on each report following "Container ID."

Indoor Air in Office – Sample ID DPW-2; Container ID AC01164

TCE was detected at a concentration of 0.68 micrograms per cubic meter ($\mu g/m^3$) in your office indoor air, which is similar to last year (at 0.62) and down from 1.6 in 2006 and 0.95 in 2007. NYSDOH's guideline for TCE in air is $5.0\,\mu g/m^3$. This level is lower than the levels that have caused health effects in animals and humans. The guideline is based on the assumption that people are exposed to TCE in air all day, every day for as long as a lifetime. This is rarely true for most people, who are exposed for only part of the day and part of their lifetime. The concentrations in your office indoor air sample are lower than this guideline.

PCE was reported as "not detected" this year.

As a maintenance and repair garage for vehicles, equipment and small engine repair, and as detailed in your product inventory, many of the products used and stored in the Building are sources of chemicals found in your samples. In other words, some of the chemicals that were in your indoor air are present in products you store and use in your Building. For example, m&p xylenes (which is unrelated to the Kings investigation) was detected at concentrations above typical background concentrations for indoor air. M&p xylenes are found in gasoline and oils. If you have any questions about this compound, or any other, you can contact the NYSDOH, as detailed at the end of this letter.

<u>Sub-slab Vapor</u> – Sample ID DPW-1; Container ID AC00948

A number of VOCs, including TCE at a concentration of 85 μ g/m³ (down from 170 on 2006, 160 in 2007, and 130 in 2008), and PCE at a concentration of 26 μ g/m³, were detected in the sub-slab vapor sample beneath the Building.

Outdoor Air – Sample ID DPW-3; Container ID AC01103

TCE and PCE were not detected this year.

Overall, based on the data, soil vapor may be impacting your indoor air, however at levels below NYSDOH guidelines. As a result of the decreasing trend in sub-slab soil vapor concentrations over the past four years, Kings is recommending that no further air sampling at DPW is warranted as the concentration detected in the sub-slab is not expected to significantly affect indoor air quality.

ENCLOSURES

In addition to the tables summarizing your sample results and a copy of the product inventory for your property, we are enclosing the following fact sheets:

- 1. What is Exposure? Information Sheet, which describes how a person may come into contact with chemicals in the environment:
- 2. <u>Soil Vapor Intrusion: Frequently Asked Questions Sheet</u>, which describes the process referred to as "soil vapor intrusion;"
- 3. <u>Tetrachloroethene (PERC) Fact Sheet</u>, which provides additional information on PCE and the NYSDOH guideline for PCE in air; and
- 4. <u>Trichloroethene (TCE) Fact Sheet</u>, which provides additional information on TCE and the NYSDOH guideline for TCE in the air.

On behalf of Kings, I thank you for your permission to sample the Building. In conclusion, if you have any questions regarding the sampling results, please feel free to contact me by phone at 845-429-1141, or to call Nicole Bonsteel from NYSDEC at toll free number 888-459-8667. If you have questions regarding any results or compounds not discussed in this letter or any health questions or concerns, you may call Carl Obermeyer at NYSDOH at 845-794-2045 or email him at cjo01@health.state.ny.us.

Very truly yours, **Environmental Management, Ltd.**

Donald J. Wanamaker

Donald J. Wanamaker President

Enclosures

cc: Nicole M. Bonsteel, NYSDEC Carl Obermeyer, NYSDOH