



PERCHLOROETHYLENE DRY CLEANERS



COMPLIANCE INSPECTION CHECKLIST

INSPECTION TYPE: ANNUAL (INS1, INS2) COMPLAINT/DISCOVERY (CI)
 RE-INSPECTION (FUI) ARMS COMPLAINT NO:

AIRS ID#: 103 0459	Date: 5/14/2011 Time In: 12:30PM Time Out: 1:00PM
Facility Name:	Hi Tech Cleaners & Laundry, Inc.
Facility Location:	5523 Roosevelt Blvd. Clearwater, FL, 33760
Responsible Official:	Eun Hi Ma Phone No: 727-536-1288
Emis. Unit Description:	New Large, Multi Matic L40, Serial No. 40SL-Ri-0807-7572 Dry-to-dry machine (2007). A TIF 5050A halogenated detector is used for leak checks.
Permit Number:	1030459-003-AG Exp. Date: 5/17/2014
Facility Contact:	Eun Hi Ma Phone: 727-536-1288
Compliance Status:	<input checked="" type="checkbox"/> IN <input type="checkbox"/> MNC <input type="checkbox"/> SNC

PART I: NOTIFICATION (Check appropriate box)

1. Existing facility notified DARM by 9/1/96	<input type="checkbox"/>
2. New facility notified DARM 30 days prior to startup	<input checked="" type="checkbox"/>
3. Facility failed to notify DARM to use general permit	<input type="checkbox"/>

PART II: CLASSIFICATION

Facility indicated on notification form that it is:
 No Notification Form Drop-Off Store Out of business Petroleum Solvent Only

A.

1. Existing small area source Dry-to-dry only, x <140 gal/yr Transfer only, x <200 gal/yr <input type="checkbox"/> Both types, x <140 gal/yr (Constructed before 12/9/91)	2. New small area source Dry-to-dry only, x <140 gal/yr Transfer only, x <200 gal/yr <input type="checkbox"/> Both types, x <140 gal/yr (Constructed on or after 12/9/91)
3. Existing large area source Dry-to-dry only, 140> x <2,100 gal/yr Transfer only, 200> x <1,800 gal/yr <input type="checkbox"/> Both types, 140> x <1,800 gal/yr (Constructed before 12/9/91)	4. New large area source Dry-to-dry only, 140> x <2,100 gal/yr Transfer only, 200> x <1,800 gal/yr <input checked="" type="checkbox"/> Both types, 140> x <1,800 gal/yr (Constructed on or after 12/9/91)

This is a correct facility classification Y N Can not determine

If no, please check the appropriate classification:
 Facility qualified for a general permit as number 4 above.
 Facility exceeds above limits and is not eligible for a general permit

B. Highest 12-month consecutive total of perchloroethylene purchased in the preceding 12-month period: 56 Gallons. Month with highest use was May 2011. Did facility exceed limits Y

PART III: GENERAL CONTROL REQUIREMENTS

Is the responsible official of the dry cleaning facility: (Check appropriate boxes)

- | | | | |
|---|---------------------------------------|----------------------------|--|
| 1. Storing perchloroethylene in tightly sealed and impervious containers? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 2. Examining the containers for leakage? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 3. Closing and securing machine doors except during loading/unloading? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | |
| 4. Draining cartridge filters in their housing or in sealed containers for at least 24 hours prior to disposal? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 5. Maintaining solvent-to-carbon ratios and steam pressure for carbon adsorber beds according to the manufacturer's specifications? | <input type="checkbox"/> Y | <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |

PART IV: PROCESS VENT CONTROLS

In Part II-A:

If classification (1) has been checked, no controls are required. **Proceed to Part V.**

If classification (2) has been checked, the machine should be equipped with a refrigerated condenser (complete A below)

If classification (3) has been checked, the machine should be equipped with either a refrigerated condenser or a carbon adsorber (complete A and B below). A Carbon adsorber must have been installed prior to September 22, 1993.

If classification (4) has been checked, machine should be equipped with a refrigerated condenser (complete A and B below.)

A. Has the responsible official of all new sources and existing large area sources: (check appropriate boxes)

- | | | | |
|--|---------------------------------------|----------------------------|-----------------------------|
| 1. Equipped all machines with the appropriate vent controls? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 2. Equipped dry-to-dry machines with a closed-loop vapor venting system? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 3. Equipped the condenser with a diverter valve so airflow will be directed away from the condenser upon opening the door? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 4. Measured and recorded the temperature of the outlet exhaust stream of a refrigerated condenser on a weekly basis? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 5. Repaired or adjusted the equipment within 24 hours if the exhaust temperature of the condenser exceeded 45° F? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 6. Conducted all temperature monitoring after an appropriate cool down period and after verifying the coolant had been completely charged? | <input checked="" type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |

B. Has the responsible official of an existing large or new large area source also:

- | | | | |
|--|----------------------------|----------------------------|-----------------------------|
| 1. Measured and recorded the exhaust temperature on the outlet side of the condenser located on dry-to-dry, reclaimer, and dryer machines on a weekly basis? | <input type="checkbox"/> Y | <input type="checkbox"/> N | |
| 2. Measured and recorded the washer exhaust temperature at the condenser inlet and outlet weekly?
Is the temperature differential equal to or greater than 10° F? | <input type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |
| 3. Measured and recorded the solvent concentration weekly at the end of the final drying cycle while the machine is venting through a carbon adsorber, if machines are equipped with a carbon adsorber?
Is the peak concentration or less than 100 ppm? | <input type="checkbox"/> Y | <input type="checkbox"/> N | <input type="checkbox"/> NA |

4. Assured that the sampling port on the carbon adsorber exhaust for measuring perc. concentrations is at least 8 duct diameters downstream of any bend, contraction, or expansion; is at least 2 duct diameters upstream from any bend contraction, or expansion; and downstream from no other inlet?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> NA
5. Equipped transfer machines (dryers, reclaimers, and washers) with individual condenser coils?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> NA
6. Routed airflow to the carbon adsorber (if used) at all times?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input type="checkbox"/> NA

PART V: RECORDKEEPING REQUIREMENTS

Has the responsible official:

(Check appropriate boxes)

1. Maintained receipts for perc purchased?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
2. Maintained rolling monthly averages of perc consumption?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
3. Maintained leak detection inspection and repair reports for the following:			
a. Documentation of leaks repaired w/in 24 hrs? or;	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> NA
b. Documentation of parts ordered to repair leak and leak repaired w/in 2 days and parts installed w/in 5 days of receipt?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> NA
4. Maintained calibration data? (<i>direct reading instruments only</i>)	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> NA
5. Maintained exhaust duct monitoring data on perc concentrations?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> NA
6. Maintained startup/shutdown/malfunction plan?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	
7. Maintained deviation reports?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> NA
Problem corrected?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> NA
8. Maintained compliance plan, if applicable?	<input type="checkbox"/> Y	<input type="checkbox"/> N	<input checked="" type="checkbox"/> NA

PART VI: LEAK DETECTION AND REPAIRS

1. Does the responsible official conduct weekly leak detection and repair inspection?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
2. Which method of detection does the responsible official use?	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Visual examination (condensed solvent of exterior surfaces)	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Physical detection (airflow felt through gaskets)	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Odor (noticeable perc odor)	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Use of direct-reading instrumentation (FID/PID/calorimetric tubes)	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N
If using direct-reading instrumentation, is the equipment:	<input type="checkbox"/> Y	<input type="checkbox"/> N
a. Capable of detecting perc vapor concentrations in a range of 0-500 ppm	<input type="checkbox"/> Y	<input type="checkbox"/> N
b. Calibrated against a standard gas prior to and after each use (PID/FID only).	<input type="checkbox"/> Y	<input type="checkbox"/> N
c. Inspected for leaks and obvious signs of wear on a weekly basis?	<input type="checkbox"/> Y	<input type="checkbox"/> N
d. Kept in a clean and secure area when not in use.	<input type="checkbox"/> Y	<input type="checkbox"/> N
e. Verified for accuracy by use of duplicate samples (calorimetric only)?	<input type="checkbox"/> Y	<input type="checkbox"/> N
3. Has the facility maintained a leak log?	<input type="checkbox"/> Y	<input type="checkbox"/> N
4. The following area should be checked for leaks by the operator:	<input type="checkbox"/> Y	<input type="checkbox"/> N
Hose connections, fitting couplings, and valves	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Door gaskets and seating	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Filter gaskets and seating	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Pumps	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Solvent tanks and containers	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Water separators	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Muck cookers	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N
Stills	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Exhaust dampers	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Diverter valves	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N
Cartridge Filter housing	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N

Shea Jackson	
Inspector's Name (Please Print)	Date of Inspection
	Within one year of this inspection
Inspector's Signature	Date of Next Inspection

System Inspection and Leak Detection

Are the following dry cleaning system components inspected weekly for perceptible leaks (sight, smell or touch) while the system is in operation (§63.322(k))? (Inspection with a halogenated hydrocarbon detector or PCE gas analyzer also fulfills the requirement for inspection of perceptible leaks.) Y N NA

Are the following dry cleaning system components inspected monthly for vapor leaks using a halogenated hydrocarbon detector or PCE gas analyzer while the system is in operation? (Any inspection conducted according to this paragraph shall satisfy the requirements to conduct an inspection for perceptible leaks under §63.322(k) or (l).) Y N NA

- (1) Hose and pipe connections, fittings, couplings, and valves;
- (2) Door gaskets and seatings;
- (3) Filter gaskets and seatings;
- (4) Pumps;
- (5) Solvent tanks and containers;
- (6) Water separators;
- (7) Muck cookers;
- (8) Stills;
- (9) Exhaust dampers;
- (10) Diverter valves; and
- (11) All Filter housings

Is the halogenated hydrocarbon detector or PCE gas analyzer operated according to the manufacturer's instructions? Y N NA

Is the vapor leak inspection conducted by placing the probe inlet at the surface of each component interface where leakage could occur and moving it slowly along the interface periphery? Y N NA

Is the PCE gas analyzer a flame ionization detector, photo ionization detector, or infrared analyzer capable of detecting vapor concentrations of PCE of 25 parts per million by volume? Y N NA

Is the halogenated hydrocarbon detector capable of detecting vapor concentrations of PCE of 25 parts per million by volume and indicating a concentration of 25 parts per million by volume or greater by emitting an audible or visual signal that varies as the concentration changes? Y N NA

ADDITIONAL SITE INFORMATION

Facility Name:	Hi Tech Cleaners & Laundry, Inc.
ARMS #:	103 0459

Inspection Comments:

- During the inspection I met with the authorized representative Eunji Ma.
- I reviewed the 2010 and 2011 record calendars for the Dry Cleaning Machine. The records were up to date. The last check was performed 6/7/2010. (See photos)
- The temperature averages around 23- 25EF weekly. This is acceptable temperature for the cool down cycle.
- The purchase invoices were dated 3/4/11 – 15 gals.
- The most recent hazardous waste disposal was 6/29/2010 with 70 gallons perc and filters.
- Ms. Ma stated they only run equipment 2 – 3 cycles a week
- I inspected the machine. There were no leaks or spills observed on the machine or on floor.
- The covers were on all containers. The evaporator top had a new lid.
- I asked to check her Halogen Detector. She still has the TIF 5050A. I asked her to demonstrate how she used it for checking the equipment. The machine was not in operation at this time. Ms. Ma turned on detector and demonstrated its use. (See photos)
- There were no alarms; it did not detect any Perc leaks during the use around the equipment. There were no perchloroethylenes odors present during the observation of the equipment.
- I gave the copy of the inspection summary and the P2 dry cleaning pamphlet.
- Ms. Ma signed the annual certification.
- The facility was in compliance at this time.

ADDITIONAL SITE INFORMATION

Facility Name:	Hi Tech Cleaners & Laundry, Inc.
ARMS #:	103 0459

Machine #1:					
Manufacturer	Multi Matic	Capacity	lbs		
Model#	L - 40	Serial#	40SL-R1-0807-7572	Mfg yr	2007

Machine #2:						
Manufacturer				Capacity	lbs	
Model#				Serial#	Mfg yr	

Notification (unpermitted sources only):

- 1. Was the facility assisted in filling out the notification by the inspector? Y N
- 2. Did the facility insist on filling out its own notification, and will send it to FDEP? Y N

Record keeping :

- 1. Does facility have statement/specs as to the design accuracy of the temperature sensor? Y N
 (Temperature of 45⁰F w/accuracy +/- 2⁰F, or 7.2EC w/accuracy of +/- 1.1⁰C)

Hazardous Waste:

- 1. Is all perc. contaminated wastewater either treated or disposed of properly? Y N
- 2. If wastewater is evaporated, is it an approved system, and using carbon filtration? Y N
- 3. Does the facility have secondary containment for the dry-dry machine? Y N
- 4. Does the facility have secondary containment for any perc. waste containers? Y N

Boiler:

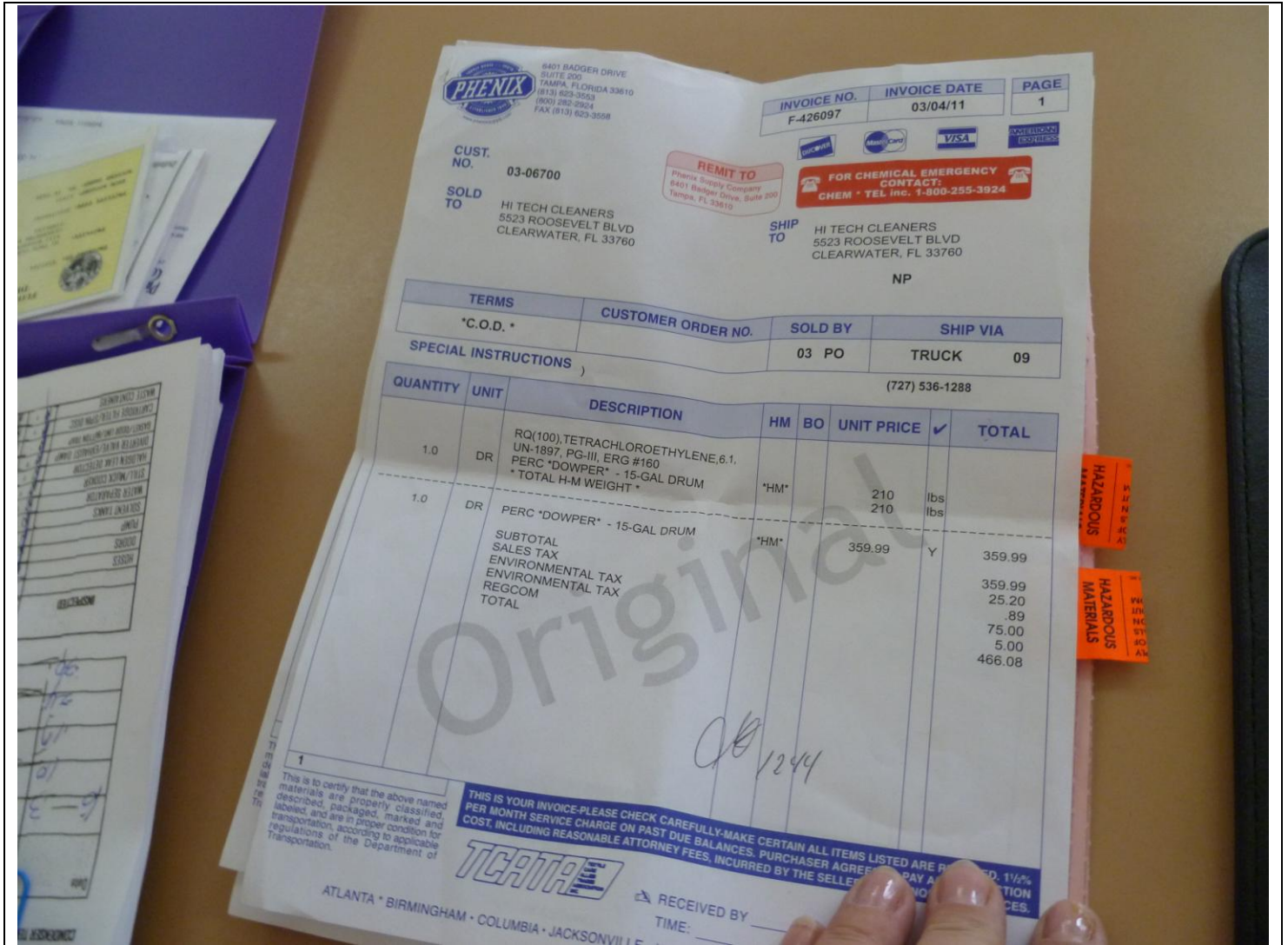
Manufacturer	Fulton	Hp	15		
Model #	FB025A	Serial #	RM7895A	Mfg yr	2005

Fuel Type: Natural gas? Propane? Fuel oil?

Comments: Exempt from permitting

Hi Tech Cleaners & Laundry, Inc.

5523 Roosevelt Blvd., Clearwater



Project Id: 75790 **Permit No:** 1030459-003-AG **Arms Number:** 0459

Inspector: Shea Jackson **Inspection Date / Time:** 6/14/2011 / _____

Source (EU): New Large, Multi Matic L40, Serial No. 40SL-Ri-0807-7572 Dry-to-dry machine (2007). A TIF 5050A halogenated detector is used for leak checks.

Description: [Purchase order for perc]

Hi Tech Cleaners & Laundry, Inc.

5523 Roosevelt Blvd., Clearwater

CONDENSER TEMPERATURE LOG

Date	Temperature	Is Temp less than or equal to 45°F (7.2°C)?
5-6	25	Y
13	21	Y
20	22	Y
27	20	Y
31	26	Y

PERC PURCHASES RUNNING TOTAL

Total from last month	56
Subtract PERC purchased	0
SUBTOTAL	56

Purchase Date	Purchase Amount	12 Month Running Total
*		
*		

REMEMBER:

IF 12-MONTH RUNNING TOTAL EXCEEDS 140 GALLONS FOR DRY-TO-DRY MACHINES, OR 200 GALLONS FOR TRANSFER ONLY MACHINES, AND RESULTS IN A CHANGE OF STATUS, YOU MUST NOTIFY THE DISTRICT OR LOCAL PROGRAM AND CONDUCT AND RECORD LEAK INSPECTIONS WEEKLY.

INSPECTED	LEAKING?	DATE			DATE PARTS		DATE REPAIRED
		6/14	6/20	6/27	ORDERED	RECEIVED	
HUSES		Y	Y	Y			
DOORS		Y	Y	Y			
PUMP		Y	Y	Y			
SOLVENT TANKS		Y	Y	Y			
WATER SEPARATOR		Y	Y	Y			
STILL/MILK LIQUOR		Y	Y	Y			
HALOGEN LEAK DETECTOR		Y	Y	Y			
DIVERTE VALVE/EXHAUST DAMP		Y	Y	Y			
BASKET/DOOR LINT/BOTTLE TRAP		Y	Y	Y			
CARBTRIDGE FILTER/SPIN DISC		Y	Y	Y			
WASTE CONTAINERS		Y	Y	Y			

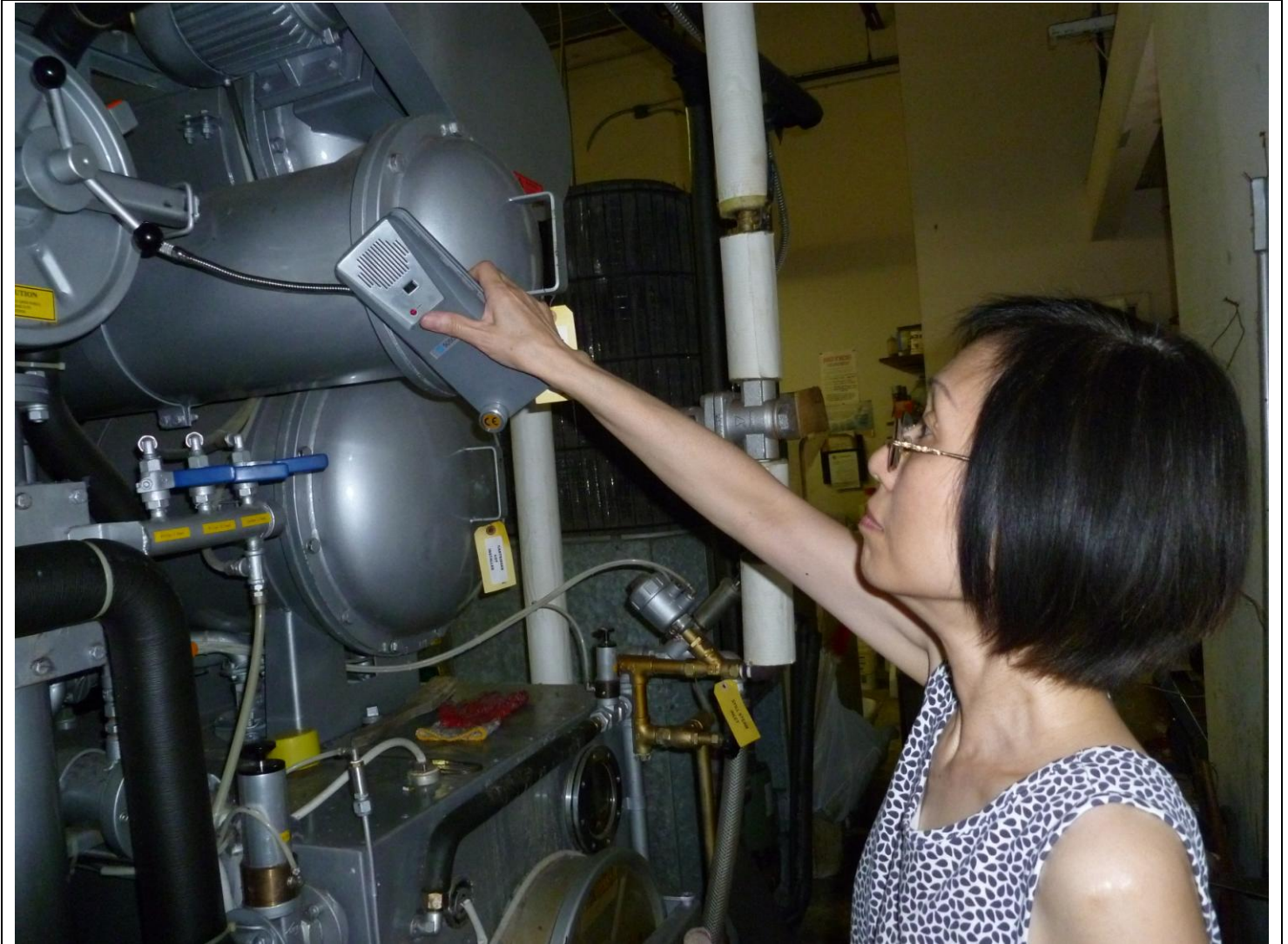
Project Id: 75790 **Permit No:** 1030459-003-AG **Arms Number:** 0459

Inspector: Shea Jackson **Inspection Date / Time:** 6/14/2011 / _____

Source (EU): New Large, Multi Matic L40, Serial No. 40SL-Ri-0807-7572 Dry-to-dry machine (2007). A TIF 5050A halogenated detector is used for leak checks.

Description: [The facility 12 month Perc usage for May 2011 was 56 gallons]

Hi Tech Cleaners & Laundry, Inc.
5523 Roosevelt Blvd., Clearwater



Project Id: 75790 **Permit No:** 1030459-003-AG **Arms Number:** 0459

Inspector: Shea Jackson **Inspection Date / Time:** 6/14/2011 / _____

Source (EU): New Large, Multi Matic L40, Serial No. 40SL-Ri-0807-7572 Dry-to-dry machine (2007). A TIF 5050A halogenated detector is used for leak checks.

Description: [The facility contact using halogen detector to check for Perc leaks]

