PERCHLOROETHYLENE DRY CLEANERS

COMPLIANCE INSPECTION CHECKLIST

Environmental Compliance

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

AIRS ID#: 103 0459	**Date: 5/14/12 Time In:11:30 am Time Out: 12:05 pm**		
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:	☒ **IN** ☐ **MNC** ☐ **SNC**		

PART I: NOTIFICATION (Check appropriate box)

1. **Existing** facility notified DARM by 9/1/96 ☐
2. **New** facility notified DARM 30 days prior to startup ☒
3. Facility **failed to notify** DARM to use general permit ☐

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 ☐
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 ☐
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 ☐
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 ☒
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: 73 Gallons. Month with highest use was 1/2012 . Did facility exceed limits ☐Y ☒N

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?	☒ Y	☐ N	☐ NA
2. Examining the containers for leakage?	☒ Y	☐ N	☐ NA
3. Closing and securing machine doors except during loading/unloading?	☒Y	☐ N	
4. Draining cartridge filters in their housing or in sealed containers for at least 24 hours prior to disposal?	☒ Y	☐ N	☐ NA
5. Maintaining solvent-to-carbon ratios and steam pressure for carbon adsorber beds according to the manufacturer's specifications?	☐ Y	☐ N	☒ 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?	☒ Y	☐ N	☐ NA
2. Equipped dry-to-dry machines with a closed-loop vapor venting system?	☒Y	☐ N	☐ NA
3. Equipped the condenser with a diverter valve so airflow will be directed away from the condenser upon opening the door?	☒ Y	☐ N	☐ NA
4. Measured and recorded the temperature of the outlet exhaust stream of a refrigerated condenser on a weekly basis?	☒ Y	☐ N	☐ NA
5. Repaired or adjusted the equipment within 24 hours if the exhaust temperature of the condenser exceeded 45^0 F?	☒Y	☐ N	☐ NA
6. Conducted all temperature monitoring after an appropriate cool down period and after verifying the coolant had been completely charged?	☒Y	☐ N	☐ 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?	☒Y	☐N	
2. Measured and recorded the washer exhaust temp[illegible]re at the condenser inlet and outlet weekly?	☐Y	☐N	☐NA
Is the temperature differential equal to o[illegible] ^{0} F?	☐Y	☐N	☐NA
3. Measured and recorded th[illegible] concentration [illegible] weekly at the end of the final drying cycle while the [illegible]e is venting [illegible]rber, [illegible] machines are equipped with a carbon ad[illegible]or?	☐Y	☐N	☐NA

Is the perc concentration equal to or less than 100 ppm?	☐Y ☐N ☐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 dust diameters upstream from any bend contraction, or expansion; and downstream from no other inlet?	☐Y ☐N ☐NA
5. Equipped transfer machines (dryers, reclaimers, and washers) with individual condenser coils?	☐Y ☐N ☐NA
6. Routed airflow to the carbon adsorber (if used) at all times?	☐Y ☐N ☐NA

PART V: RECORDKEEPING REQUIREMENTS

Has the responsible official:
(Check appropriate boxes)

1.	Maintained receipts for perc purchased?	☒ ☐N
2.	Maintained rolling monthly averages of perc consumption?	☒Y ☐N
3.	Maintained leak detection inspection and repair reports for the following:	
	a. Documentation of leaks repaired w/in 24 hrs? or;	☐Y ☐N ☒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?	☐Y ☐N ☒NA
4.	Maintained calibration data? *(direct reading instruments only*)	☐Y ☐N ☒NA
5.	Maintained exhaust duct monitoring data on perc concentrations?	☐Y ☐N ☒NA
6.	Maintained startup/shutdown/malfunction plan?	☒Y ☐N
7.	Maintained deviation reports?	☐Y ☐N ☒NA
	Problem corrected?	☐Y ☐N ☒NA
8.	Maintained compliance plan, if applicable?	☐Y ☐N ☒NA

PART VI: LEAK DETECTION AND REPAIRS

1.	**Does the responsible official conduct weekly leak detection and repair inspection?**	☒Y	☐N
2.	**Which method of detection does the responsible official use?**	☒Y	☐N
	Visual examination (condensed solvent of exterior surfaces)	☒Y	☐N
	Physical detection (airflow felt through gaskets)	☒Y	☐N
	Odor (noticeable perc odor)	☒Y	☐N
	Use of direct-reading instrumentation (FID/PID/calorimetric tubes)	☐Y	☒N
	If using direct-reading instrumentation, is the equipment:	☐Y	☐N
	a. Capable of detecting perc vapor concentrations in a range of 0-500 ppm	☐Y	☐N
	b. Calibrated against a standard gas prior to and after each use (PID/FID only).	☐Y	☐N
	c. Inspected for leaks and obvious signs of wear on a weekly basis?	☐Y	☐N
	d. Kept in a clean and secure area when not in use.	☐Y	☐N
	e. Verified for accuracy by use of duplicate samples (calorimetric only)?	☐Y	☐N
3.	**Has the facility maintained a leak log?**	☒Y	☐N
4.	**The following area should be checked for leaks by the operator:**	☐Y	☐N

Hose connections, fitting couplings, and valves	☒Y	☐N	Muck cookers	☐Y ☒N
Door gaskets and seating	☒Y	☐N	Stills	☒Y ☐N
Filter gaskets and seating	☒Y	☐N	Exhaust dampers	☒Y ☐N
Pumps	☒Y	☐N	Diverter valves	☐Y ☒N
Solvent tanks and containers	☒Y	☐N	Cartridge Filter housing	☒Y ☐N
Water separators	☒Y	☐N		

Shea Jackson	5/14/12
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 Eun Hi Ma.
- I reviewed the 3/2011 and 2012 record calendars for the Dry Cleaning Machine. The records were up to date. The most recent perc total for April 2012 was 58 gallons. The records were reviewed from 1/2011 thru 5/12/2012. The records were up to date. Ms. Eua Ma is maintaining the records and the Perc comsumption totals. She had started subtracting 2 gallons from the monthly totals starting in 3/ 2011. She had not done this in 2010. She thought she had been instructed to look at the level of Perc used monthly and subrtract it from the Perc total. I informed her that our dept would not have suggested this, that she may have misinterperted something another agency had requested. I went back to March 2011 record, and help her correct the math. She had been entering the purchases to the monthly total when purchased, but had not brought the March purchase forward to be subtracted from the next year total. Once we checked the purchase orders and did the calculations the highest total was 73 gals instead of 58 gallons, and the May 2012 Perc total was 58gallons not 49 gallons.
- The last leak and temperature check was performed 5/9/12. (See record photos)
- The temperature check averages were 22- 24EF weekly. This is acceptable temperature for the cool down cycle below 45EF.
- The purchase invoices were dated 3/4/11 – 15 gals and 1/1/12 – 15 gals.
- Ms. Ma stated they only run equipment 1- 2 cycles a day.
- I inspected the machine. There were no leaks or spills observed on the machine or on floor. The covers were on all containers. The water evaporator top had a lid.
- I asked to check her TIF 5050A Halogen Detector. 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 going around the rear seals. (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 Ms. Ma the copy of the dry cleaner inspection summary and she 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		Mfg yr	
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 45^0F w/accuracy +/– 2^0F, or 7.2EC w/accuracy of +/– 1.1^0C)

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 #	40SL-R1-0807-7572	Serial #	L – 40	Mfg yr	2005

Fuel Type: Natural gas? ☒ Propane? ☐ Fuel oil? ☐

Comments:

Hi Tech Cleaners & Laundry, Inc.

5523 Roosevelt Blvd., Clearwater

Project Id: 80783 **Permit No:** 1030459-003-AG **Arms Number:** 0459

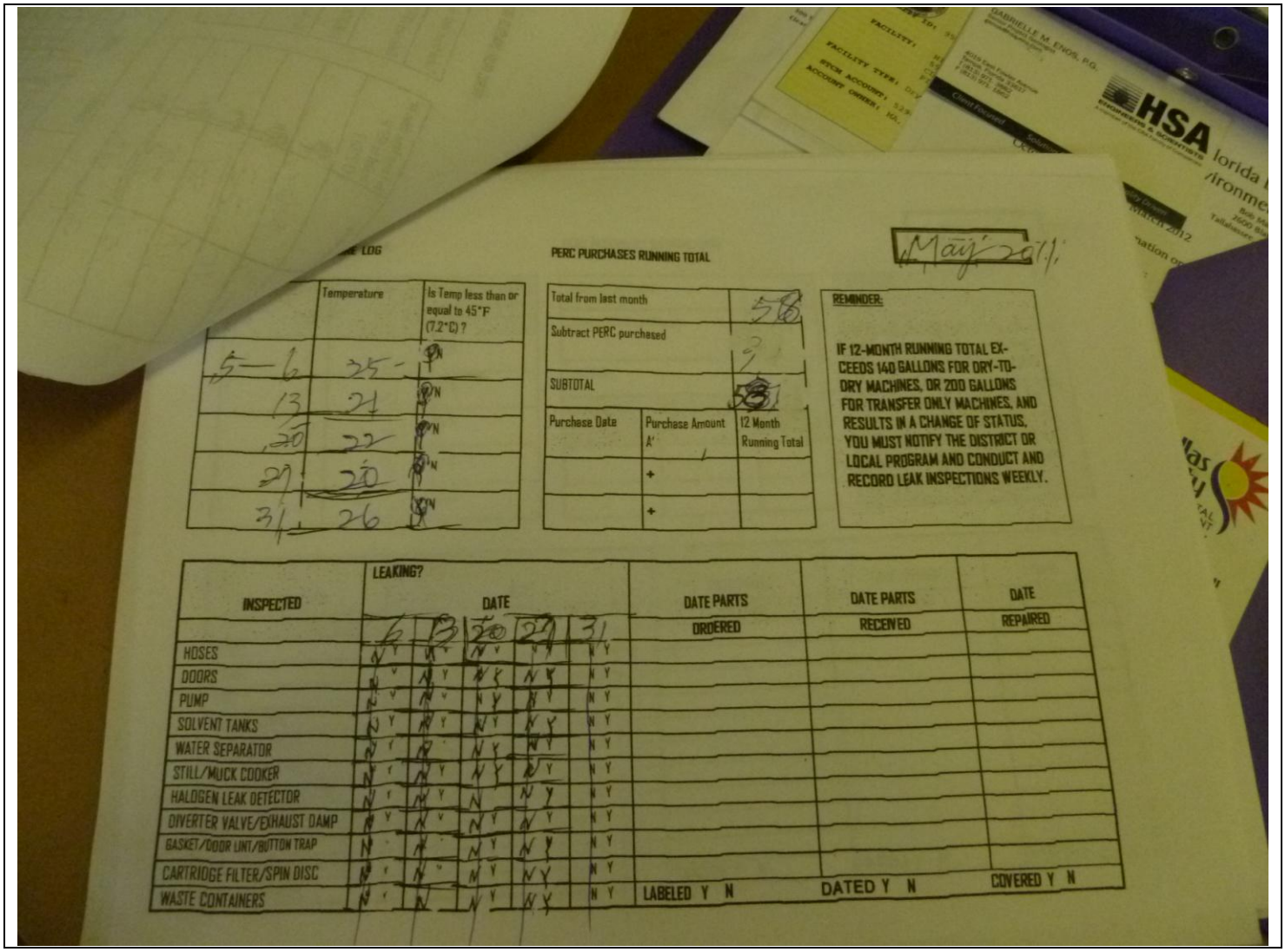
Inspector: Shea Jackson **Inspection Date / Time:** 5/14/2012 / _____

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 dry to dry machine was not in operation at this time]

Hi Tech Cleaners & Laundry, Inc.

5523 Roosevelt Blvd., Clearwater



Project Id: 80783 **Permit No:** 1030459-003-AG **Arms Number:** 0459

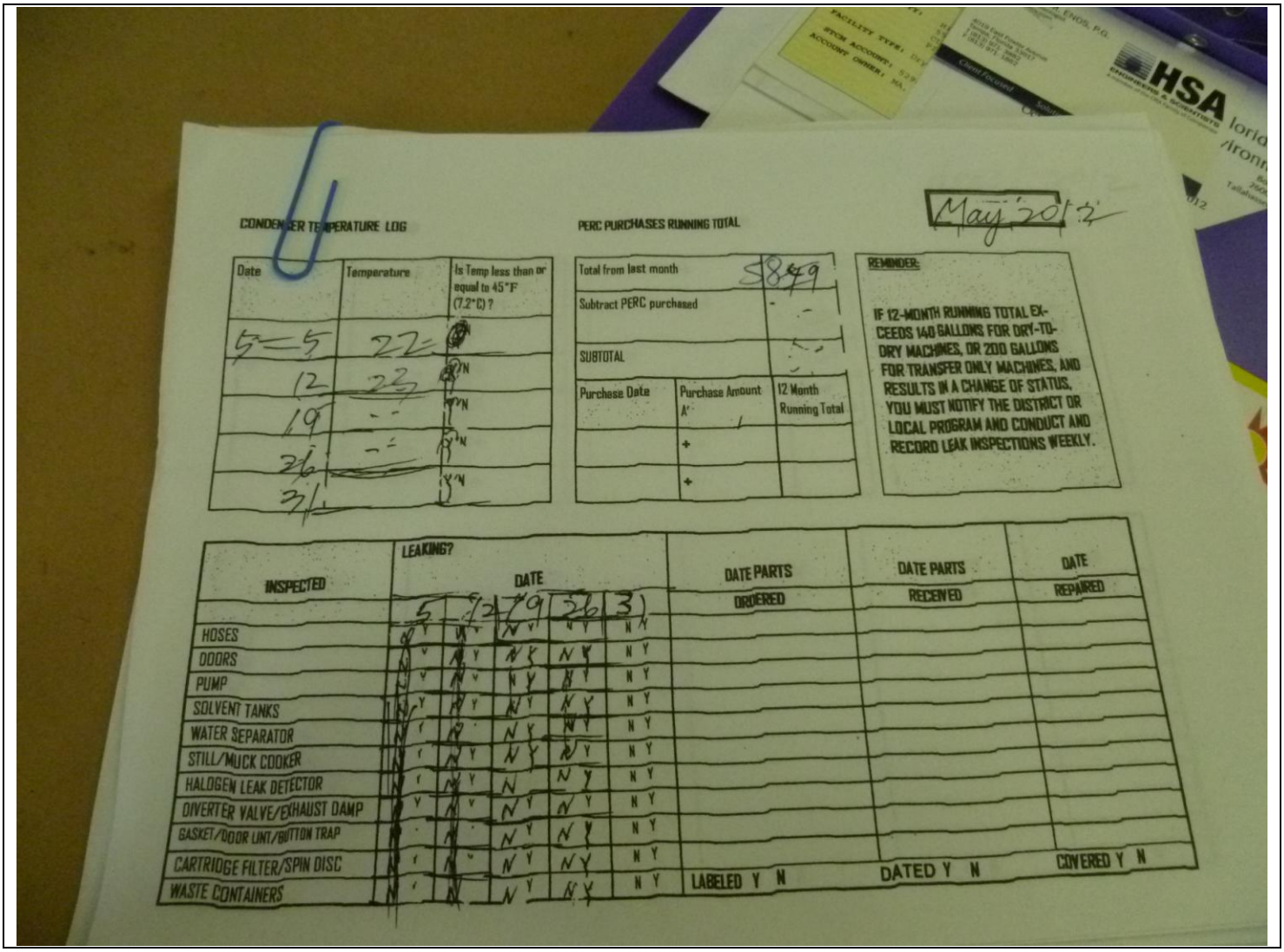
Inspector: Shea Jackson **Inspection Date / Time:** 5/14/2012 / _____

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: [Perc totals from May 2011 records were adjusted for incorrect math calculations]

Hi Tech Cleaners & Laundry, Inc.

5523 Roosevelt Blvd., Clearwater



Project Id: 80783 **Permit No:** 1030459-003-AG **Arms Number:** 0459

Inspector: Shea Jackson **Inspection Date / Time:** 5/14/2012 / _____

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 current perc Total was 58, not 49 gallons after math corrections]

Hi Tech Cleaners & Laundry, Inc.

5523 Roosevelt Blvd., Clearwater

Project Id: 80783 **Permit No:** 1030459-003-AG **Arms Number:** 0459

Inspector: Shea Jackson **Inspection Date / Time:** 5/14/2012 / _____

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: [Ms Ma the facility contact used the Halogen Detector to check the rear of the dry to dry for Perc leaks]