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 0341	**Date:** **Time In:** **Time Out:**		
Facility Name:	Island Estate Cleaners, Inc.		
Facility Location:	755 Indian Rocks Road North		
	Belleair Bluffs, FL, 33770		
Responsible Official:	Edward E. Hacker	**Phone No:**	727-584-8382
e-mail:	ed@scottsdrycleaners.com		
Emis. Unit Description:	New Large Perchloroethylene Dry Cleaner: One Dry-to-dry machine. Columbia USA- TDMACCI 280MS purchased 2004, controlled by refrigerated condenser. An exempt 50 HP natural gas fired boiler is on-site.		
Permit Number:	1030341-005-AG	**Exp. Date:**	12/15/16
Facility Contact:	Edward E. Hacker	**Renewal Date:**	11/15/16
e-mail:	info@scottsdrycleaners.com	**Phone:**	727-584-8382
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 ___ 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: 60 Gallons. Month with highest use was May 2014. 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 tem[illegible]re at the condenser inlet and outlet weekly?	☐Y ☐N ☐NA
Is the temperature differential equal to o[illegible]e[illegible]^0 F?	☐Y ☐N ☐NA
3. Measured and recorded th[illegible]concentration [illegible]veekly 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]er?	☐Y ☐N ☐NA
Is the pe[illegible]n e[illegible]or less tha[illegible]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?	☒ Y ☐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	6/27/14
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:	Island Estate Cleaners, Inc.
ARMS #:	103 0341

Inspection Comments:

- I met with the Edward Hacker, the facility contact/owner, and the dry to dry operator, Jose.
- I observed the calendar record logs a 2014 Phoenix record log sheet furnished by their vendor, posted on machine. The 2013 record was in Mr. Hacker's office
- The records were up to date; with the current Perc total of 60 gallons. The facility highest month total was 60 gallons of Perc on May 2014
- The Perc last purchase was on 3/18/12 for 30 gallon. Mr. Hacker said due to the cost he runs still often, and machine not leaking so has decided to not purchase perc until later this year.
- The hazardous waste invoices, showed last disposal on 10/17/13 of 4 dry to dry cartridges. Mr. Hacker drains over night prior to disposal. There was also removal of 450 lbs liquid perc waste (See Invoice copy).
- I observed the machine during the operation and noted the temperature gauge was marked for maintaining cool down temperature below 45, the temperature observed in the records was 30 and 31 degrees F at time of cool down. (see photo)
- The leak and temperature checks were up to date 6/23/14
- Jose demonstrated the use of the Tek Mate halogen leak detector, there was no leak detected during leak check during machine operation and no Perc odors detected.
- The facility continues to use a water evaporator" Zero Waste HX mister". The equipment has alarm for filter system change, and if Perc detected in water. This is located on the north side of the dry to dry machine. Mr. Hacker stated they change filters in June, and will be doing the end of this month.
- The Hazardous waste drums from the dry to dry equipment were in the secondary containment on the west side of machine.
- The facility appears to be in compliance with permit at this time

ADDITIONAL SITE INFORMATION

Facility Name:	Island Estate Cleaners, Inc.
ARMS #:	103 0341

Machine #1:		
Manufacturer	Capacity	lbs
Model#	Serial#	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? (Temperature of 45^0F w/accuracy +/– 2^0F, or 7.2EC w/accuracy of +/– 1.1^0C)	☒Y	☐N

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:

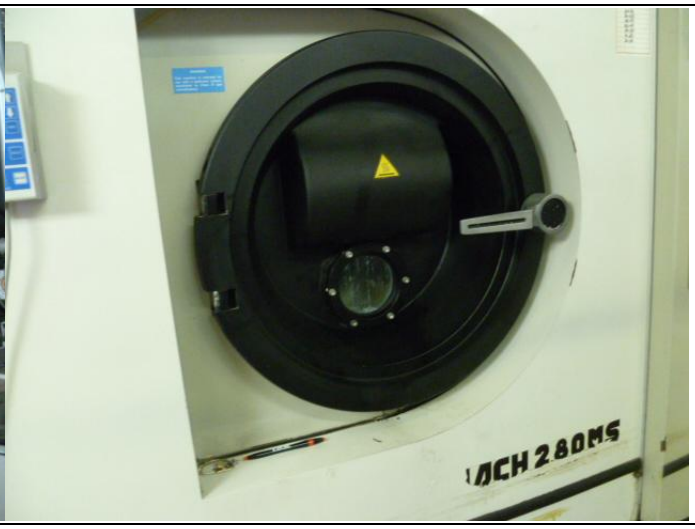
Manufacturer Hurst		Hp 50	
Model #	Serial # N850720461863	Mfg yr	2005

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

Comments: Exempt from permitting

Island Estate Cleaners, Inc. Scott's Custom Cleaners

755 Indian Rocks Road North, Belleair Bluffs



Project Id: 88678 **Permit No:** 1030341-005-AG **Arms Number:** 0341

Inspector: Shea Jackson **Inspection Date / Time:** 6/27/14 / _____

Source (EU): New Large Perchloroethylene Dry Cleaner: One Dry-to-dry machine. Columbia USA-TDMACCI 280MS purchased 2004, controlled by refrigerated condenser. An exempt 50 HP natural gas fired boiler is on-site.

Description: [Operator performing leak detection while machine in operation]

Island Estate Cleaners, Inc. Scott's Custom Cleaners

755 Indian Rocks Road North, Belleair Bluffs

Project Id: 88678 **Permit No:** 1030341-005-AG **Arms Number:** 0341

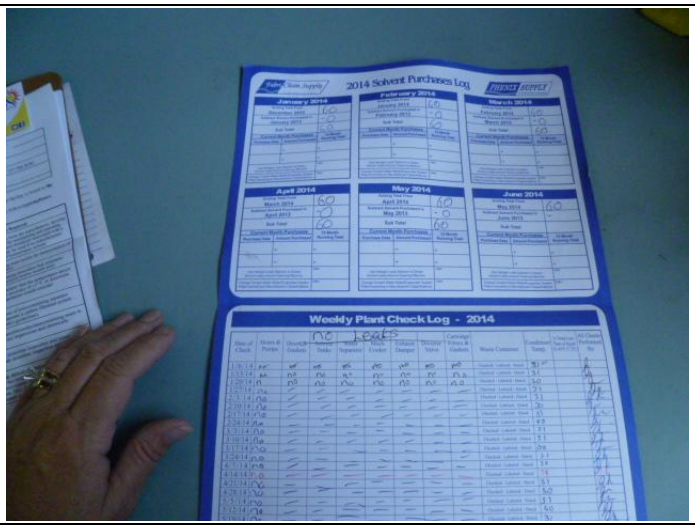
Inspector: Shea Jackson **Inspection Date / Time:** 6/27/14 / _____

Source (EU): New Large Perchloroethylene Dry Cleaner: One Dry-to-dry machine. Columbia USA-TDMACCI 280MS purchased 2004, controlled by refrigerated condenser. An exempt 50 HP natural gas fired boiler is on-site.

Description: [The waste drums in secondary containment and the zero Mister located at rear of machine.]

Island Estate Cleaners, Inc. Scott's Custom Cleaners

755 Indian Rocks Road North, Belleair Bluffs



Project Id: 88678 **Permit No:** 1030341-005-AG **Arms Number:** 0341

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Description: [Records for leak and temperature checks were maintained up to 6/23/14 on the vendor Phoenix calendar.]