



# PERCHLOROETHYLENE DRY CLEANERS



## COMPLIANCE INSPECTION CHECKLIST

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

<b>AIRS ID#:</b> 103 0397	<b>Date:</b> 12/3/2012 <b>Time In:</b> 10:30 am <b>Time Out:</b> 11:05 am
<b>Facility Name:</b>	Bay Area Business Cleaners, Inc.
<b>Facility Location:</b>	945 Huntley Avenue Dunedin, FL, 34698
<b>Responsible Official:</b>	Kenneth Schumann <b>Phone No:</b> 727-733-0959
<b>Emis. Unit Description:</b>	Existing, Small Perchloroethylene Dry Cleaner: One Dry-to-dry machine (12/8/1991) with a 25 HP Natural gas fired boiler
<b>Permit Number:</b>	1030397-004-AG <b>Exp. Date:</b> 8/2/2017
<b>Facility Contact:</b>	Kenneth Schumann <b>Phone:</b> 727-733-0959
<b>Compliance Status:</b>	<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 checked="" type="checkbox"/>
2. New facility notified DARM 30 days prior to startup	<input 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.**

<b>1. Existing small area source</b> Dry-to-dry only, x <140 gal/yr Transfer only, x <200 gal/yr <input checked="" type="checkbox"/> Both types, x <140 gal/yr (Constructed before 12/9/91)	<b>2. New small area source</b> 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)
<b>3. Existing large area source</b> 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)	<b>4. New large area source</b> 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 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 1 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:** 44.3 Gallons. Month with highest use was April 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?   | <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 type="checkbox"/> Y | <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 2. Equipped dry-to-dry machines with a closed-loop vapor venting system?   | <input type="checkbox"/> Y | <input type="checkbox"/> N | <input checked="" 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 type="checkbox"/> Y | <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 4. Measured and recorded the temperature of the outlet exhaust stream of a refrigerated condenser on a weekly basis?                       | <input type="checkbox"/> Y | <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 5. Repaired or adjusted the equipment within 24 hours if the exhaust temperature of the condenser exceeded 45 <sup>o</sup> F?              | <input type="checkbox"/> Y | <input type="checkbox"/> N | <input checked="" type="checkbox"/> NA |
| 6. Conducted all temperature monitoring after an appropriate cool down period and after verifying the coolant had been completely charged? | <input type="checkbox"/> Y | <input type="checkbox"/> N | <input checked="" 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 checked="" type="checkbox"/> N <input checked="" type="checkbox"/> NA  |
| 2. Measured and recorded the washer exhaust temperature at the condenser inlet and outlet weekly?<br>Is the temperature differential equal to or greater than 10°F?   | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA<br><input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA |
| 3. Measured and recorded the perc concentration weekly at the end of the final drying cycle while the machine is venting to the atmosphere. If machines are equipped with a carbon adsorber?<br>Is the perc concentration equal to or less than 10 ppm?   | <input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA<br><input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA |
| 4. Assured that the sampling position on adsorber exhaust for measuring perc. concentrations is at least 10 duct diameters downstream of any bend, contraction, or expansion; is at least 10 diameters upstream from any bend contraction, or expansion; and downstream from the condenser 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**

<b>1. Does the responsible official conduct weekly leak detection and repair inspection?</b>	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N			
<b>2. Which method of detection does the responsible official use?</b>	<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			
<b>If using direct-reading instrumentation, is the equipment:</b>	<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			
<b>3. Has the facility maintained a leak log?</b>	<input type="checkbox"/> Y	<input type="checkbox"/> N			
<b>4. The following area should be checked for leaks by the operator:</b>	<input type="checkbox"/> Y	<input type="checkbox"/> N			
Hose connections, fitting couplings, and valves	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	Muck cookers	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N
Door gaskets and seating	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	Stills	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Filter gaskets and seating	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	Exhaust dampers	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Pumps	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	Diverter valves	<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N
Solvent tanks and containers	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N	Cartridge Filter housing	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Water separators	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N			

Shea Jackson	12/3/12
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:** Bay Area Business Cleaners, Inc.

**ARMS #:** 103 0397

## **Inspection Comments:**

- *I met with the responsible official Mr. Kenneth Schumann.*
- *I reviewed the 2011 and 2012 calendar for the required Bi weekly leak check records. The leak checks were up to date. The temperature requirement is not applicable to small existing dry to dry machines.*
- *The calendar record and the monthly 12 month consecutive Perc totals were up to date. The highest 12 month total was for at 44.3 gallons, for April 2012, and the current total was 29.3 gallons*
- *Mr. Schumann maintains the purchase receipts for the perchloroethylene and Hazardous waste manifest copies within the calendar record. The purchases invoice for 10/19/2012 was for the amount of 15 gallons of perchloroethylene.*
- *The most recent invoice was 10/10/2012 for the disposal of 1 drum 60 gallons of perc waste and filter cartridges. Mr. Schumann's procedure for filter change out is to leave the Perchloroethylene cartridges in over the weekend. This meets more than the 24 hour requirement*
- *The temperature recording is not required for existing small machines classification.*
- *I observed the HP 25 dry to dry machine; as operating finishing cycle.*
- *I did not detect perchloroethylene odors during this inspection and observation of the dry to dry machine. Mr. Schumann used the Halogen detector for leak checks during inspection and no alarms sounded.*
- *The separator water is then transferred to the Galaxy Mister for evaporation of reclaim water was covered and in secondary containment.*
- *The shutdown procedures and the emergency plan and contacts are posted on the dryer*
- *The hazardous material drums and water evaporator were located in the secondary containment to prevent perchloroethylene leakage.*
- *I gave him the dry cleaner summary handout.*
- *The facility was operating in compliance of the general permit conditions.*

## ADDITIONAL SITE INFORMATION

<b>Facility Name:</b>	Bay Area Business Cleaners, Inc.
<b>ARMS #:</b>	103 0397

<b>Machine #1:</b>			
Manufacturer	Capacity	lbs	
Model#	HP 25	Serial#	Mfg yr 1991
<b>Machine #2:</b>			
Manufacturer	Capacity	lbs	
Model#	Serial#	Mfg yr	
<b>Notification (unpermitted sources only):</b>			
1. Was the facility assisted in filling out the notification by the inspector?		<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N
2. Did the facility insist on filling out its own notification, and will send it to FDEP?		<input type="checkbox"/> Y	<input checked="" type="checkbox"/> N
<b>Record keeping :</b>			
1. Does facility have statement/specs as to the design accuracy of the temperature sensor? (Temperature of 45 <sup>0</sup> F w/accuracy +/- 2 <sup>0</sup> F, or 7.2EC w/accuracy of +/- 1.1 <sup>0</sup> C)		<input type="checkbox"/> Y	<input type="checkbox"/> N <input checked="" type="checkbox"/> N/A
<b>Hazardous Waste:</b>			
1. Is all perc. contaminated wastewater either treated or disposed of properly?		<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
2. If wastewater is evaporated, is it an approved system, and using carbon filtration?		<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
3. Does the facility have secondary containment for the dry-dry machine?		<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
4. Does the facility have secondary containment for any perc. waste containers?		<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
<b>Boiler:</b>			
Manufacturer	Hurst	Hp	25
Model #	Serial #	Mfg yr	
Fuel Type:    Natural gas? <input checked="" type="checkbox"/> Propane? <input type="checkbox"/> Fuel oil? <input type="checkbox"/>			
<b>Comments:</b> <i>The boiler is exempt from permitting, and located in a second storage building on the east side of the facility.</i>			



# Bay Area Business Cleaners, Inc. Tabor Cleaners

945 Huntley Avenue, Dunedin



**Project Id:** 84672                      **Permit No:** 1030397-004-AG                      **Arms Number:**  
**Inspector:** Shea Jackson                      **Inspection Date / Time:** 12/3/2012  
**Source (EU):** Existing, Small Perchloroethylene Dry Cleaner: One Dry-to-dry machine (12/8/1991) with a  
25 HP Natural gas fired boiler  
**Description:** [The HP 25 dry to Dry machine was in operation at this time. No leaks or Perc odors detected ]]

# Bay Area Business Cleaners, Inc. Tabor Cleaners

945 Huntley Avenue, Dunedin



**Project Id:** 84672      **Permit No:** 1030397-004-AG      **Arms Number:**  
**Inspector:** Shea Jackson      **Inspection Date / Time:** 12/3/2012 / \_\_\_\_\_  
**Source (EU):** Existing, Small Perchloroethylene Dry Cleaner: One Dry-to-dry machine (12/8/1991) with a  
25 HP Natural gas fired boiler  
**Description:** [Mr. Schumann as he leak checked the dry to dry machine, no leaks detected]



# Bay Area Business Cleaners, Inc. Tabor Cleaners

945 Huntley Avenue, Dunedin



**Project Id:** 84672      **Permit No:** 1030397-004-AG      **Arms Number:**

**Inspector:** Shea Jackson      **Inspection Date / Time:** 12/3/2012 / \_\_\_\_\_

**Source (EU):** Existing, Small Perchloroethylene Dry Cleaner: One Dry-to-dry machine (12/8/1991) with a 25 HP Natural gas fired boiler

**Description:** [Secondary containment for the Perc waste and soap containers]