



**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF WASTE MANAGEMENT AND RADIOLOGICAL PROTECTION**

**ELECTRONIC DEVICE MANUFACTURER
REGISTRATION FORM**

Registration is required under authority of Section 17303 of Part 173, Electronics, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

FOR ADDITIONAL INFORMATION, CONTACT THE
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY,
OFFICE OF WASTE MANAGEMENT AND RADIOLOGICAL PROTECTION,
SUSTAINABLE MATERIALS MANAGEMENT UNIT AT 517-284-6590

YEAR 2014-15 **FOR DEQ USE ONLY**

Date Received by DEQ: 10-22-2014

Received by: MLW

Fee: \$3,000.- Yes No

ACH Payment: Yes No

Confirmation # _____

NOTE: PLEASE COMPLETE THE ENTIRE APPLICATION EVEN IF THE ANSWER IS "N/A" OR "0"

ELECTRONIC DEVICE MANUFACTURER:

1. Company Name (True Name and All Assumed Names): Hewlett-Packard Company, or "HP" 2. Area Code and Telephone Number: 650-857-1501

3. Manufacturer of:

Video Display Devices (televisions)	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Computers (includes monitors)	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Printers	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

4. Mailing Address:

Address: 8000 Foothills Blvd, MS 5580 City: Roseville

State: CA ZIP: 95747

Country: USA County (if in Michigan): NA

5. Home Web Site Address: www.hp.com, or www.hp.com/recycle

6a. Contact name: Jeff Kuypers

6b. Contact e-mail address: jeff.kuypers@hp.com

6c. Contact telephone number: 916-785-2552

BRAND NAMES OF COVERED ELECTRONIC DEVICE(S) AND TYPE OF DEVICE (video display or computer) SOLD BY THE MANUFACTURER

7. Please list the brand names of covered devices your company manufacturers. (Attach an additional page if necessary.)

- | | |
|--|-----|
| (a) Hewlett-Packard ("HP")--computers and printers | (e) |
| (b) Compaq (computers, limited use) | (f) |
| (c) | (g) |
| (d) | (h) |

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TAKEBACK PROGRAM CONSUMER CONTACTS

8a. What Web site address do you provide to consumers for information on your Takeback program? www.hp.com/recycle, or www.hp.com/us/go/recycling.

8b. If the Web site address above includes a link to the Takeback program describe how to find that link on the Web site: To get info for MI, the consumer will see a map and enter their zip code. They will then see nearby collection sites that HP supports. At this point, the consumer will also see text that may be selected that says "accepted products and state laws". Selecting this text delivers more information about the state program. Also see Attachment 2, Section 2.2, for website images.

8c. If provided, what telephone number do you provide to consumers for information on your Takeback program? Not currently provided for this program.

TAKEBACK PROGRAM INFORMATION

9. What are the primary method(s) utilized by your Takeback program? Check up to two boxes.

Mailback

Permanent collection site

Collection events

Retailer

9a. Identity of the person responsible for coordination of the Takeback program.

Name: Jeff Kuypers
916-785-2552

e-mail address: jeff.kuypers@hp.com

Phone #:

9b. Please describe your Takeback program.

HP has made arrangements for consumers to be able to drop off covered electronic equipment at 50 locations in the state, including all Staples stores. Attachment 1 also has been included with this registration to identify all current collection sites--there are a total of 40 Staples and 10 other sites currently listed for HP throughout Michigan. HP finances recycling of products (any brand) collected via these channels so that consumers do not have any additional charge to drop-off their unwanted covered electronic equipment.

After collection, all electronics are processed via recyclers certified to eStewards and/or R2, and also meeting HP's hardware recycling standard (<http://www.hp.com/hpinfo/globalcitizenship/environment/recycle/finalrecstds.pdf>). These recyclers are included on MI DEQ's registered recycler list.

NOTE: Consumers continue to have the option to use HP's buy-back or mail-back (if no value) program at www.hp.com/recycle. HP does not count volume collected via these channels in end-of-year volume reporting due to potential challenges in parsing related volume data and anticipated small total volume relative to the above channels. The mail-back program is free for HP brand devices. Consumers with HP products also have an option to use this program even if they do not have a box (HP has made arrangements with FedEx Office for packaging). Companies retained by HP to recycle devices returned through the mail-back program are certified to R2 and/or eStewards standards and are registered with MI DEQ.

9c. Are appropriate devices covered with your Takeback program? Check appropriate box:

If you are a manufacturer of computers do you accept all brands?

Yes

No

N/A

If you are a manufacturer of video display devices do you accept all brands?

Yes

No

N/A

9d. Is your Takeback program free to consumers?

Yes

No

9e. Is your Takeback program reasonably convenient and available to and otherwise designed to meet the needs of consumers in this state?

Yes

No

9f. What is the number of devices a consumer may deliver to your program each day?

Unlimited

10. What information do you provide to consumers on how and where to return covered electronic devices that are labeled with your name or brand label?

(Note RE 9f, can not enter above: 7 items per visit at Staples, but the customer could keep going back without limit.) Response to 10: Via the internet (see #8), HP provides consumers with information about how and where to drop-off covered devices for free recycling. This includes a field for consumers to enter their zip code and see nearby locations on a map. Staples stores also provide some visibility such as via in-store signage as well as their own corporate website. See Attachment 2 for examples.

11. How do you provide information to consumers on how and where to return covered electronic devices?

HP, Staples, and our recyclers make this information available via the web--see 8a and Attachment 2 for web addresses. Other communication has included press releases and in-store signage--see also Attachment 2 for examples.

TAKEBACK PROGRAM REPORT (include this information beginning with the first registration submitted after the implementation of the Takeback program)

12a. List the number of permanent collection and/or recycling locations in the state of Michigan. 50 (Excluded in this number are FedEx Office locations that also accept un-boxed HP brand devices for free recycling by HP.)

- a(1) The number of those collection sites that are located in counties with a population of less than 20,000 people. There are 3 applicable sites, and these are noted in Attachment 1. (Excluded here are any rural FedEx office locations that accept un-boxed HP brand devices for free recycling by HP.)

12b. The number of collection events held during previous registration year in the state of Michigan. 0

12c. List the weight of the covered electronic devices received by the Takeback program from consumers during the prior year:

2,000 tons thru collection locations 0 tons through collection events 214.52 tons through retailers 0 tons by mailback.

13. Describe the processes and methods used to recycle or reuse the covered electronic devices received from consumers: HP uses two recyclers to process material collected under this program (see FOIA exempt section for further identification):

Recycler #1 states: We utilize a manual dismantling process to return materials to the commodity state. We also utilize shredding technology to prepare materials for metal or energy recovery (solid waste incineration). Materials are shredded only after the removal of certain problematic materials (batteries, mercury relays, etc.). We utilize a propriety glass processing system to prepare CRT tubes for recycling and reuse. Commodities are sold back into their prospective markets for reuse. Materials identified in the sorting process that pass functionality testing are sold for reuse in buk or via our retail outlets.

Recycler #2 states: Covered Electronic Devices collected at Staples collection sites are sent to our facility in Indiana. The facility is e-Stewards, R2, ISO 14001, ISO 9001 and OHSAS 18001 certified.

Upon receipt, materials are separated into two streams: glass-containing items and all other e-waste. Glass-containing items will be separated from all other e-waste. Glass containing items will be moved to a separate area where the CRTs will be removed from their outer casings. The glass will then be cleaned and cut using our dry-process glass cleaning system to separate the panel glass from the funnel glass. The clean panel and funnel glass is now in commodity form to be sent for the manufacturing of new CRTs.

All other e-waste will be designated and prepared for shredding. For efficiency, material is shredded in batches, by grade of commodity. E-waste will be sorted and staged into the following grades: high grade; low grade/medium grade; low grade copper; and items that cannot be shredded, such as wood and fluorescent tubes. Items that cannot be shredded go directly to a de-manufacturing table. All other materials are prepared for shredding. Batteries will be removed from any devices and managed as necessary. E-waste will be processed through the shredder and will be separated into plastics and metals, allowing us to increase the value of these commodities. Plastics and metals will be stored in baled or loose commodity form until they are sold and shipped from the facility.

Our recycling process and shredding and glass cleaning technology ensure that all e-waste including covered electronic devices

collected under the Michigan program leave our facility in commodity form as plastic, metal and glass. The material is sent to vendors compliant with the e-Stewards and R2 standards, and which we have thoroughly audited and vetted.

I, the undersigned registrant, swear and affirm, UNDER PENALTY OF LAW, that the statements contained herein are true and correct. I certify under penalty of law that the information contained on this form, to the best of my knowledge and belief, is true, accurate, and complete. I am aware that there are significant penalties for submitting false information.

PRINT NAME: Jeff Kuypers DATE: 10/21/2014

SIGNATURE:  TITLE: Env. Program Manager