



DEPARTMENT OF
ECOLOGY
State of Washington

Addendum 1 to PCBs in State Purchased Products - 2017

**Addendum to Quality Assurance Project Plan:
Product Testing Program, Version 1.0**

December 2017

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Publication Information

Addendum

Addendum 1 to PCBs in State Purchased Products – 2017, Addendum to Quality Assurance Project Plan: Product Testing Program, Version 1.0, is available on the Department of Ecology's website at <https://fortress.wa.gov/ecy/publications/SummaryPages/1704045.html>

This is an addendum to the [PCBs in State Purchased Products – 2017, Addendum to Quality Assurance Project Plan: Product Testing Program, Version 1.0](#) (publication no. 17-04-004). It is not a correction (errata) to an original plan.

Original Publication

[PCBs in State Purchased Products – 2017, Addendum to Quality Assurance Project Plan: Product Testing Program, Version 1.0.](#)

Publication No. 17-04-004.

The Quality Assurance Project Plan Addendum is available on the Department of Ecology's website at <https://fortress.wa.gov/ecy/publications/SummaryPages/1704004.html>.

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HWTR: Hazardous Waste and Toxics Reduction Program

MEL: Manchester Environmental Laboratory

2.0 Abstract

The Washington State Department of Ecology (Ecology) will conduct a study to evaluate the presence of polychlorinated biphenyls (PCBs) in state purchased products. Washington State law (RCW [39.26.280](#) and [39.26.290](#)) requires state agencies to limit the purchase of products containing PCBs. This study is being carried out to assist state agencies in identifying where PCBs may be present in a subgroup of state purchased products from state contracts in order to assist with compliance. The project plan has been amended for product categories, sample numbers, and total project costs and only the changes to the project are reflected in this addendum to the [PCBs in State Purchased Products – 2017, Addendum to Quality Assurance Project Plan: Product Testing Program, Version 1.0](#).

4.0 Study Description

This addendum to the [PCBs in State Purchased Products – 2017, Addendum to Quality Assurance Project Plan: Product Testing Program, Version 1.0](#) describes changes specific to the project plan (Ecology, 2017). The Study Objectives (4.2), Study Schedule (5.4) and Budget and Funding (5.6) sections have been amended for the study and reflected in this addendum. All remaining sections of the project plan are unchanged and will be followed as previously described to the completion of this project.

4.2 Study Objectives

An additional product category will be included in this study:

F. **Fabrics:** Sample state purchased fabrics, used to produce furniture, garments, and accessories that contain pigments or use chlorinated compounds in the manufacturing process and may be disposed of into the landfill. A previous study by Ecology, found total PCB levels ranged between 1.31 ppb to 16.6 ppb in four samples from children’s clothing and one sample from an adult’s state purchased uniform (Ecology, 2016).

5.0 Organization and Schedule

5.4 Study schedule

The schedule for completion of this project has been amended, Table 1. The estimated dates for completion of this study have been changed on the schedule.

Table 1. Ammended Proposed Schedule for Completing Product Collection and Laboratory Work, Data Reviews, Data Entry into Product Testing Database (PTDB), and Reports

Product Collection and Laboratory Work	Due Date	Lead Staff
Product collection completed	11/2017	Kari Trumbull/Chrissy Wiseman
Product logging in completed	11/2017	Kari Trumbull/Chrissy Wiseman
XRF screening completed	03/2018	Chrissy Wiseman
Internal data QA completed	03/2018	Chrissy Wiseman
Laboratory analyses completed and received	04/2018	
Data Review	Due Date	Lead Staff
Lab data QA reviewed	05/2018	Kari Trumbull
Lab data loaded in PTDB	05/2018	Kari Trumbull
PTDB data QA review completed	05/2018	Kari Trumbull/Chrissy Wiseman
Final Reports	Due Date	Lead Staff
Drafts due to supervisor	06/2018	Kari Trumbull
Drafts due to client/peer reviewer	06/2018	Kari Trumbull
Final reports due to publications coordinator	07/2018	Kari Trumbull
Final reports post to the web	08/2018	

5.6 Budget and Funding

In October 2017 additional funding was allocated to this project in order to test additional product samples in a sixth product category (fabrics) and increase the sample size in the original five categories (Ecology, 2017). The funding and sample numbers have been amended to reflect the new total for samples collected, the new total for samples cryomilled, the new total for the number of samples sent to the lab for PCB analysis, and the new total study funding for this project, Table 2.

Samples will be sent to the contract lab and analyzed for the full suite of 209 PCB congeners. Some samples will be cryomilled, like flooring material and medical supplies that consist of hard plastic, to obtain a homogenous sample before extraction and analysis. The cleaned cryomill vessels will be rinsed with high purity hexanes and collected then analyzed for PCBs as a quality control (QC) sample.

Table 2. Ammended Study Budget and Funding

Activity/Parameter	Number of Samples	QC Samples ⁺	Cost of Sample	Subtotal	Total
Product Collection	200	---	---	\$ 1,500	---
Product Collection Total:					\$ 1,500
Cryomilling	20	---	\$ 100	\$ 2,000	---
209 PCB Congeners [*]	175	11	\$ 531.25	\$ 98,812.50	---
Titanium	6	3	\$ 70	\$ 630	---
Laboratory Total:					\$ 101,442.50
Study Total:					\$ 102,942.50

⁺QC samples in this table include those that are not provided free of charge (matrix spikes, matrix spike duplicates, sample duplicates, and cryomill rinseates).

^{*}Price includes 25% MEL contract fee.

15.0 References

Washington State Department of Ecology (Ecology), 2016. [Polychlorinated Biphenyls \(PCBs\) in 201 Consumer Products](#). Publication number 16-04-014, 61 pages.

Ecology, 2017. [PCBs in State Purchased Products – 2017, Addendum to Quality Assurance Project Plan: Product Testing Program, Version 1.0](#). Publication No. 17-04-004, 11 pages.