NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
WATER MONITORING AND STANDARDS ELEMENT
BUREAU OF FRESHWATER AND BIOLOGICAL MONITORING
P.O. Box 420; Mail Code 35-01
TRENTON, NEW JERSEY

WORK/QUALITY ASSURANCE PROJECT PLAN
Fish Tissue Monitoring Network – Round 1 Lower Delaware Basin 2016

(As amended 5/18/2016)

(As amended 6/7/2016)

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Appendix A: Data Management Tables

1.0 Project Name:

Fish Tissue Monitoring Network – Round 1 Lower Delaware Basin

2.0 Project Request:

Bureau of Freshwater and Biological Monitoring and the Division of Science, Research, and Environmental Health

3.0 Date of Request:

April 2016

4.0 Date of Project Initiation:

May 2016

5.0 Project Fiscal Information: Job Number 7W106CXX, Activity Code V6TK

6.0 Project Officer:

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Bureau of Freshwater and Biological Monitoring
New Jersey Department of Environmental Protection

7.0 Quality Assurance Officer:

Marc Ferko, Research Scientist 1
NJDEP, Office of Quality Assurance

8.0 Special Training Needs/ Certifications

Assistants to the project will be trained in the operation and use of all sampling equipment including the proper safety and handling procedures for electroshocking equipment. At least 1 crew member will be Red Cross AED/CPR certified. The Project Officer or designee will be responsible for coordinating necessary training.

9.0 Project Description:

9.1 Background:

Fish and shellfish consumption advisories due to chemical contamination were announced in New Jersey in the 1980s and 1990s. Data from Division of Science, Research, and Environmental Health studies revealed that unacceptable risks existed for eating certain amounts and species of fish and shellfish from some waters in the State. Statewide advisories were issued for consumption of selected fish species due to toxic contamination. The advisories are frequently more restrictive for pregnant women, nursing mothers and young children. Many of the contaminants including polychlorinated biphenyl (PCBs) and mercury are known to cause birth defects, developmental problems, neurological problems and/or cancer. Current advisories are listed on NJDEP's Website www.FishSmartEatSmartNJ.org.

In addition to posing human health consumption concerns, many toxic contaminants can result in ecological impacts as well to fish and other biota. One of the toxics of concern, mercury, is persistent in the environment,

accumulates in biological tissue, and biomagnifies in the food chain. Due to these magnifying characteristics, adverse impacts to non-aquatic, piscivorous (fish eating) organisms may arise from low surface water column concentrations.

In 2001, EPA recommended Clean Water Act Section 304(a) water quality criterion based on a methyl mercury fish tissue concentration value of 0.3 mg/kg; *Water Quality Criterion for Protection of Human Health: Methylmercury EPA 2001*. In 2010, EPA published guidance for implementing the 2001 recommended criterion *Guidance for Implementing the January 2001 Methylmercury Water Quality Criterion EPA 2010*.

A routine tissue monitoring program was identified as a key gap in NJ's Long-term Monitoring and Assessment Strategy. Sampling fish tissue for advisories, and for assessing the CWA fish consumption use, had been conducted in the past by DEP's Division of Science, Research, and Environmental Health (DSREH) on a research project-specific basis with external research institutions. This Network, established in 2014 by the Bureau of Freshwater and Biological Monitoring (BFBM) will continue to build the capacity of the State freshwater monitoring program and leverage some existing program resources (e.g. electroshocking boat, supplies, and fisheries expertise) to provide regular cost efficient monitoring and ongoing data to meet the objectives below.

9.2 Objectives

The objective of this project is to collect total mercury, polychlorinated biphenyls (PCBs) and polybrominated diphenyl ethers (PBDEs) data in fish tissue to:

- Provide current and more comprehensive data on concentrations of toxic contaminants in fish in order to assess human health risks and update/recommend fish consumption advisories.
- Provide data to assess the impairment of the fish consumption designated use of the waterbodies sampled.
- Provide data to assess the trends in levels of contaminants that contribute to use impairment and fish consumption advisories.

This Network targets key lakes, rivers and reservoirs in the Lower Delaware Region. A statewide probabilistic network of lakes will be sampled for mercury in fish tissue starting in 2016.

Largemouth bass *Micropterus salmoides* or chain pickerel *Esox niger* (trophic level 4), Sunfish spp. *Lepomis spp.*(trophic level 3) and common carp *Cyprinus carpio* , catfish *Ictalurus punctatus, Ameiurus spp.* or eels *Anguilla rostrata* (trophic level 3) were selected as the species to sample as they are known to accumulate mercury and are fairly common in New Jersey. These species are common in lakes and rivers in the Lower Delaware region and Hg data are available for comparison. Common carp, catfish or eels (trophic level 3) were selected for PCBs analyses because they are known to accumulate PCBs in the fatty tissue.

Another objective is to begin to collect additional data on emerging contaminants (as prioritized by Division of Science, Research, and Environmental Health) data in fish tissue.

PBDEs have emerged as contaminants of concern. They are widely distributed and persistent in the environment. PBDEs are flame retardants used in a wide variety of commercial and industrial products. Studies since 2000 in the U.S. and Europe confirm that PBDEs biomagnify in the food chain and accumulate in fish and human tissue. PBDEs have been associated primarily with endocrine disruption and neurodevelopmental toxicity *EPA Technical Fact Sheet – Polybrominated Diphenyl Ethers (PBDEs) and Polybrominated Biphenyls (PBBs) 2014.*

Data Quality Objectives:
For fish tissue analysis, total mercury will be measured for all fish collected. PCBs (congener specific) will be measured in carp, catfish or eels at 5 sites. PBDEs will be analyzed for carp, catfish or eels collected at 3 sites (see Table 1: Sites). Measuring bias, precision, accuracy, and sensitivity must meet the standards outlined in EPA Method 1631 for total mercury, EPA Method 1668 for PCBs, and EPA Method 1614 for PBDEs.

9.3 Monitoring Design/ Site Selection:
Site Selection: A total of 15 sites were chosen for 2016 within the Lower Delaware region (Table 1a). These 15 sites were selected in cooperation with the Division of Science, Research, and Environmental Health. Site locations are targeted to locations were contaminated fish tissue is of concern and past data is available to assess the trends in levels of contaminants that contribute to use impairment and fish consumption advisories. These sites were also targeted because they have known fishing access and angling pressure. Other sites of concern may be added to the site list if the schedule and budget allows.

A total of 50 probabilistic sites were generated using a Generalized Random Tessellation Stratified (GRTS) survey design to provide a statistical statewide estimate of total mercury concentration in fish in NJ lakes greater than 5 acres in size. Approximately 10 probabilistic lakes (Table 1b) will be sampled for fish tissue each year until all 50 lakes are completed (scheduled to be complete in 2020).

Sampling locations will be established using an approved global positioning system (GPS) device (Trimble GeoExplorer 2008 or newer model). Subsequently, all sampling locations will be verified by sampling staff during each sampling event using an approved GPS device.

Field Collection: Fish will be collected primarily through DC boat electrofishing, however other methods will be used if necessary (e.g., traps, gillnets or hook and line). Electrofishing is inherently dangerous and therefore team leaders must be trained in safe electrofishing techniques and practices to ensure safe working conditions for themselves and the field staff (AFS Professional Safety Committee

2008). Exposure to low electrical current (like that used in electrofishing) may cause death due to respiratory arrest or cardiac fibrillation (AFS Professional Safety Committee 2008). Due to these dangers, the field team leader must be trained in CPR and AED procedures. All crew members are required to wear a Coast Guard approved personal flotation device (PFD), rubber boots with non-slip soles, and electrician gloves rated at 7,500 watts.

In addition to electrofishing, baited hoop nets, experimental gill nets or hook and line may be employed to ensure the collection of all specimens. Nets will be set in the evening near the appropriate habitat and will be checked early the following morning to minimize mortality of incidental catch. Sampling gear and crew size is at the discretion of the field team leader. A checklist of sampling and safety equipment will be prepared prior to field work.

It is highly desirable to collect live, intact fish that have not been mutilated by the collection gear and that do not have any skin lacerations or fin deterioration that would allow body fluids to leak out of the specimen or contaminants to pass into the specimen after collection. EPA recommends that fish captured in passive collection devices not remain in the water for more than 24 hours after the passive collection device is first deployed and that specimens that show any skin or fin deterioration or external lacerations of any kind not used for chemical analysis. In addition, some fish collected by electroshocking methods may have ruptured organs due to the electroshocking procedure. Fish that are found floating dead at a site should not be used for sample analysis for human risk assessments.

The species collected will include largemouth bass or chain pickerel (trophic level 4), sunfish sp. (trophic level 3) and common carp, catfish or eels (trophic level 3). If any these species can't be collected, an appropriate species will be collected at the discretion of team leader (see Table 2: Alternate Fish List).The fish species to be collected for mercury analysis were chosen because they are commonly targeted and eaten by anglers. Common carp, catfish or eels will have PCB analyses in addition to total mercury because they are bottom dwellers. PCBs attach to organics in the water and settle into the sediments which are taken in when bottom dwellers are foraging for food, bioaccumulating in the body. Carp, catfish or eels will also have PBDE analysis at three locations (see Table 1: Sites). Captured specimens will be held in a livewell until sampling is complete. The appropriate number of specimens of the same size/age will be removed for analysis and the remaining fish returned to the waterbody *see Table 1: Sites*.

<u>Tissue Plug Samples</u>

Whole fish or fillet fish tissue collection for mercury requires the specimen to be culled (dispatched). The use of muscle plugs eliminates the need to cull the fish for mercury analysis and allows the organism to be released back into the waterbody. The USEPA has employed the use of plugs for their National Rivers and Streams Assessment (NRSA) as have many states (e.g. New York, Kentucky, Nebraska) in their respective monitoring programs. Studies have shown that Hg results from fish tissue samples harvested with biopsy tools were

comparable in accuracy to results from samples collected with traditional whole body sampling methods (Baker et al. 2004). At all probabilistic sites, 5 individual largemouth bass or chain pickerel will have tissue plugs removed using the Non-Lethal Fish Tissue Plug Collection SOP (#EH-07, EPA/ERT/REAC, 2003). A composite sample consisting of 1 plug per fish, from 5 individual fish of the same species (largemouth bass or chain pickerel) will create a composite sample for analysis. All fish collected at probabilistic sites will be released back into the lake alive.

All specimens sampled for total mercury at fixed network locations in the Lower Delaware region will be euthanized and transported back to the laboratory on wet ice. All specimens will have a small portion of scales removed with a sterile scalpel from the right dorsal side following the *Non-Lethal Fish Tissue Plug Collection SOP (#EH-07, EPA/ERT/REAC, 2003)*. A sterile 8mm biopsy punch will be inserted into the muscle to remove 2 plugs, each weighing approximately 0.5g – 0.7g of tissue per plug for a total of 1.0-1.4g of tissue from each fish. The tissue will be placed in a sterile glass jar and kept in a frozen state in a chest freezer at 35 Arctic Parkway office until shipped to a New Jersey certified laboratory within 1 year of capture. As of this date (6/7/2016), we acknowledge that Brooks Applied Labs, the subcontractor for Axys Analytical Laboratories for total mercury EPA method 1631, will expire on 6/30/16 and they will not seek recertification. An alternate laboratory, which is NJ certified for EPA method 1631 will be sought by BFBM and DSREH and procured as soon as possible. All fish tissue plug samples will be shipped to the laboratory on dry ice. The use of tissue plugs is more cost effective than whole body analysis due to the decreased cost to ship plugs and the elimination of the fish preparation charge by the laboratory. Following collection of tissue plugs, the remaining whole fish will be bagged in Ziploc type (plastic) or kitchen bags, labeled and stored in a frozen state as an archive sample.

Whole Fish Samples

Whole fish specimens analyzed for PCBs, and PBDEs will be labeled and placed in zip-lock bags, then a large polypropylene/polyethylene bag, and then placed in a plastic tray that are set on top of wet ice until return to the office. All persons handling the fish during collection shall wear new nitrile gloves.

Length and Weight Measurements

Specimens sampled for total mercury plugs only will be measured (total length) in the field to the nearest millimeter for total length using a standard measuring board and weighed using a spring scale (Pesola, accuracy: ±0.3%). After the fish is weighed and measured and plugs are extracted it will be released into the waterbody.

Culled Specimens

Whole fish specimens analyzed for total mercury, PCBs, and PBDEs will be weighed and measured at BFBM lab. Specimens will be measured to the nearest millimeter using a standard measuring board, and will be weighed to the nearest tenth of a gram using an electronic scale (Mettler PM 4000) or spring scale

(Pesola, accuracy: ±0.3%). Polypropylene/polyethylene will be used to cover the measuring board and electronic scale for each fish sample. The processed specimens will then be bagged in Ziploc-type (plastic) or kitchen bags, labeled and stored in a frozen state until picked up for transport to the analytical laboratory, Axys Analytical Laboratories for PCB and PBDE analysis. Within 1 year of capture, specimens will be transported to the laboratory on either wet or dry ice, with complete sample documentation. Specimens will be held frozen until thawed for sample preparation.

Table 1a: Fixed Network Sites

Lower Delaware River Fish Sampling Locations

2016 BFBM Fish Tissue Project

Sampling Location	Water Region	Longitude	Latitude	Mercury Plugs	PCB congeners
Big Timber Creek @ Runnemede	Lower Delaware	-75.09302	39.85013	LMB/CP, Sunfish	WP, catfish
Cooper River Lake @ Camden	Lower Delaware	-75.08513	39.94823	LMB/CP, Sunfish	Carp
Crystal Lake @ Fieldsboro	Lower Delaware	-74.73880	40.12439	LMB/CP, Sunfish, SH	SH , Carp/Catfish
DOD Lake @ Penns Grove	Lower Delaware	-75.45824	39.74897	LMB/CP, Sunfish	Carp
Evans Pond @ Evans Pond	Lower Delaware	-75.02210	39.89794	LMB/CP, Sunfish	Bullhead Catfish
Kirkwood Lake @ Lindenwold	Lower Delaware	-74.99847	39.83533	LMB/CP, Sunfish	Carp
Mantua Creek @ Paulsboro	Lower Delaware	-75.22936	39.85352	LMB/CP, Sunfish	WP,CCF, SB
Mirror Lake @ Browns Mill	Lower Delaware	-74.56933	39.97127	LMB/CP, Sunfish	none
Newton Lake @ Collingswood	Lower Delaware	-75.08939	39.90579	LMB/CP, Sunfish, SH	SH , Carp
Union Lake @ Millville	Lower Delaware	-75.06552	39.41675	LMB/CP, Sunfish, CCF	CCF
Oldmans Creek @ Pedricktown	Lower Delaware	-75.40510	39.76590	LMB/CP, Sunfish	WP,CCF
Pennsauken Creek @ Forked Landing Rd	Lower Delaware	-75.01234	39.97855	LMB/CP, Sunfish	WP, Carp/catfish
Rancocas Creek @ Centerton	Lower Delaware	-74.87310	39.99780	LMB/CP, Sunfish	WP, carp/CCF
Stewart Lake @ Woodbury	Lower Delaware	-75.14276	39.84135	LMB/CP, Sunfish	Carp
Maurice River downstream from Millville	Lower Delaware	-75.03729	39.37781	LMB/CP, Sunfish, CCF	CCF

SH= N. Snakehead, LMB=Largemouth bass, CP=Chain pickerel, CCF= Channel catfish, SB=Striped bass, Carp = Common Carp, Catfish = Available Species, Sunfish = Bluegill preferred

Mirror Lake @ Browns Mill : take plugs out of fish collected for PFAS on 10/20/15 and have Hg analyzed to use for 2016 routine network

Collect 1 full set of N. snakehead Hg plugs and whole tissue for PCBs at either Newton Lake **or** Crystal Lake

Table 1b: 2016 Probabilistic Lake Network Sites

Site ID	Waterbody	Longitude	Latitude
FWLM2015-254	Roosevelt County Park Lake	-74.34054184	40.55249498
FWLM2015-002	Lake Washington	-74.30123575	41.02997215
FWLM2015-003	Spooky Brook Pond	-74.56440608	40.50958293
FWLM2015-255	Cooper Lake	-75.33178211	39.8016346
FWLM2015-260	Hanover Pond	-74.46621445	39.9765592
FWLM2015-261	Lower Blue Mountain Lake	-74.92945109	41.10091244
FWLM2015-262	Barbour Pond	-74.18230246	40.89970856
FWLM2015-008	Clint Millpond	-74.81654085	39.15529023
FWLM2015-266	Julian Capik Nature Preserve Pond	-74.33709299	40.4386398
FWLM2015-270	Birchwood Lake	-74.45001196	40.89581182
FWLM2015-287	New Market Pond	-74.45512331	40.57709376
FWLM2015-289	Round Valley Reservoir	-74.82558413	40.61589056
FWLM2015-293	Lake Ocquittunk	-74.76443024	41.22820078
FWLM2015-014	Imlaystown Lake	-74.50975703	40.16441001
FWLM2015-295	Weequahic Lake	-74.20405543	40.70145154

The first 10 lakes (in sequential order) which are accessible to the sampling gear and permissible to sample will be selected.

Table 2: Alternate Fish List

Common Name	Scientific Name
Rock bass	*Ambloplites rupestris*
Northern Pike	*Esox lucious*
White Perch	*Morone americana*
Striped Bass	*Morone saxatilis*
Striped x White Bass hybrid	*Morone saxatilis x chrysops*
Yellow Perch	*Perca flavescens*
Black Crappie	*Pomoxis nigromaculatus*
White Crappie	*Pomoxis annularis*
Walleye	*Sander vitreus*
White Sucker	*Catostomus commersonii*

9.4 Laboratory Analysis

Axys Analytical Laboratories will conduct the fish tissue analyses for PCBs and PBDEs on Common carp, catfish and eels. This will include the sample preparation (i.e., skinning, filleting and homogenizing) of all fish collected. Brooks Rand Labs, LLC subcontracted by Axys Analytical Laboratories will conduct fish tissue analyses for total mercury.

Human Health – Plug samples from 3 fish of each species collected from each fixed site will be sampled for total mercury. A composite of 5 fish (1 plug per fish) will be collected at all probabilistic lakes.

Samples (plugs and whole fish) shall be stored frozen (-20 C) until processing in the laboratory. The maximum holding time for plugs are 1 year and the maximum holding time for whole fish is 1 year. All transfers of samples will be properly documented throughout transport and analysis (internal lab chain-of-custody). All laboratory equipment will be properly calibrated as per each method completed. Careful cleaning of all laboratory equipment and instruments using the appropriate soaps, solvents, acids, and double deionized water (DDW) will be employed throughout this program.

Tissue preparation of fish will follow common preparation methods for consumption. The specimens will be filleted by the contracted laboratory using clean methods for mercury as outlined in EPA's "*Guidance for Assessing Chemical Contaminant data for Use in Fish Advisories Vol 1 Fish Sampling and Analysis" 2000.*

As part of quality assurance and quality control (QA/QC), Standard Reference Material (SRM) will be analyzed by the analytical laboratory as part of the QA/QC procedure. This material will be obtained from the National Institute of Standards and Technology (NIST) or equivalent agency (see NOAA, 1992) and may consist of DORM-1, EPA SRS903, SRM 1974 (or equivalent if available). All sample

spikes will use specimens from this project only. Also, duplicate samples will be analyzed to help assess laboratory variations in the analysis of fish tissue.

10.0 Schedule of Tasks and Products

Project Requested: March 2016
Station Selection: March 2016
Work/Quality Assurance Plan: April 2016.
Sampling Activities: May 2016 – October 2016
Laboratory Activities: June 2016 – December 2016
Data Reports: data tables (hardcopy and electronic) as laboratory results become available.

11.0 Resource Needs

BFBM will need 1 additional hourly staff to complete this project.

12.0 Quality Assurance

12.1 Laboratory Analysis: The following parameters will be analyzed by the qualified New Jersey certified laboratory listed in Section 9.4. Any laboratory used shall be certified by NJDEP's OQA for the requested parameters. The reporting levels, listed below, are **required** for this project.

Parameter	Method	Detection Level	Holding Time	Preservative	Plug/Fillet
Total Mercury	EPA Method 1631	0.0896 ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.	Plug
PCBs	EPA Method 1668	see Appendix A	1 year	Ice to 4ºC in field. Freeze within 24 hours.	Fillet
PBDEs	EPA Method 1614	see Appendix A	1 year	Ice to 4ºC in field. Freeze within 24 hours	Fillet

Total mercury will be analyzed for all fish collected. Target species as per Table 1 will be analyzed for PCB (congener specific) and PBDEs.

12.2 Sample Containers: Sample containers shall be dedicated, single-use. Sample containers shall be provided by the NJ certified laboratory.

12.3 Sample Retention: All samples must be retained by the laboratory until such time that the BFBM approves the reported results.

13.0 Data Quality Requirements

Analytical samples will be done by the methods specified in this QAPP and for which the laboratory has certification. Quality control procedures (including required calibrations, equipment cleaning, and other quality control procedures required by regulation or by the method shall be defined in the laboratory's Quality Manual or Standard Operating Procedures (SOPs). The QM and SOPs must be approved by the OQA.

14.0 Data Completeness

Plug samples from 3 similar-sized fish per waterbody will be collected. Plug and whole fish samples will consist of fish of similar size; the smallest fish will be no less than 75% of the size of the largest fish in the plug or composite sample. Adult fish of a size targeted by anglers will be collected for human health criteria. Fish samples will be collected during peak water temperatures and high productivity (i.e., May through October) in 2016.

15.0 Sample Custody Procedures

Chain of custody will be required for all samples as per N.J.A.C. 7:18-9.3(b). Laboratories performing the analysis will provide chain of custody forms.

16.0 Data Validation

The Project Officer and the Supervisor are responsible for all initial data validation. If apparent anomalous data are suspected, the Project Officer and/or the Supervisor will review the sampling procedures with the field sampler to make sure the proper collection and preservation procedures were followed. If the data is still suspect, the laboratory will be contacted. An internal review of their laboratory procedures and/or calculations used in the analysis of the suspect sample, with special emphasis on transcription of data to assure that no transposition of figures occurred will be conducted. The laboratory will be asked to check on equipment calibration. They may be further requested to reanalyze the retained portion of the sample. If no problems are found in the analytical laboratory procedures, the data may then be compared to any historical data that might have been collected at the same site prior to the most recent sampling event to see if similar anomalies might have been found previously. The suspect data may also be compared to literature values or standard analytical treatises to verify whether or not the results are within the limits of accuracy of the test method.

If no obvious problems are found after these reviews, the complete data set will be reported with the suspect data identified as such. The BFBM will then conduct its own review of the data, as it relates to the objectives(s) and data accuracy required in this project.

17.0 Performance System Audits

All NJ certified laboratories used are subject to audits and to the requirements of the OQA Laboratory Certification Program as well as internal performance evaluations. The OQA will be notified of field monitoring schedules for possible audits.

18.0 Data Reporting

18.1 Preliminary Reporting of Data

Preliminary analytical data will be reported to BFBM, from the laboratory employed for this project, in either electronic format or by verbal communication to the Project Officer, within 21 calendar days from receipt of sample. Samples which yield results considered anomalous by the Project Officer and/ or

Supervisor will be validated as specified in section 16.0, Data Validation, before the holding time of the retained sample is expired. If the results remain suspect after an internal review of the laboratory procedures, calculations, and/or on transcription of data has been conducted, then the sample shall be reanalyzed by the laboratory using the retained portion of the sample. This reanalysis shall be performed within the parameter holding time.

18.2 Final Reporting of Data

Final analytical data will be reported to BFBM, from the laboratory employed for this project, in the form of an electronic data delivery as agreed to in the contract within 40 calendar days from receipt of sample. All data shall be reported in a complete and concise fashion and shall meet the reporting requirements of NJAC 7:18. Routine quality control results must be retained on file for review by the BFBM and the OQA.

19.0 Data Storage and Distribution

Sampling results will be stored locally in a Microsoft Access database. Data will be entered into New Jersey's Water Quality Data Exchange (WQDE) and USEPA STORET Data Warehouse by June of the following year it is verified. Data will be available through STORET and the National Water Monitoring Council Water Quality Portal. All raw data records shall be maintained for a period of no less than five years.

20.0 Assessment, Oversight, and Response

The Project Officer will be responsible for the oversight of all activities relating to this project. The Project Officer will assess field collection functions and make corrections when necessary to maintain the data accuracy as defined in this plan. If any changes or modifications are made to this plan regarding data collection, as it relates to the objectives(s) and data accuracy required in this project, all original signees of the QAPP will be notified

APPENDIX A:
Data Management Tables

For Data Management purposes, Water Chemistry is defined as parameters analyzed by a lab; Field measurements are defined as analyze immediately parameters.

Inventory

Geographic Regions	Rivers, lakes and reservoirs
Counties	Statewide
Dates	5/1/2016 - 10/1/2016
Status	Future/Planned
Sample Frequency	Once
Seasons Sampled	Spring, Summer, Fall
Waterbody Type	River/Stream, lakes, reservoirs
Salinity Category	Fresh
Tidal Influence	Non-tidal, tidal
Project Description	The objective of this project is to collect total mercury, polychlorinated biphenyls (PCBs) and polybrominated diphenyl ethers (PBDEs) data in fish tissue to: • Provide current and more comprehensive data on concentrations of toxic contaminants in fish in order to assess human health risks and update/recommend fish consumption advisories. • Provide data to assess the impairment of the fish consumption designated use of the waterbodies sampled. • Provide data to assess the trends in levels of contaminants that contribute to use impairment and fish consumption advisories.
Parameters analyzed type	Emerging Contaminants, Metals, Pesticides

Data Management Supplement

QAPP network path file location?	V:\LUM\BFBM\Bfbm\Quality Assurance Plans\Calendar Year 2016 QAPPS\FishTissueLOWDEL2016DRAFT2_26_16.docx
Where will data be recorded in field (media)	Paper
If on tablets or phones, will download at office occur or will you connect wirelessly?	
If on tablets or phones, who will do the download?	
If data collected electronically, where will it be stored?	access database ,V:\LUM\BFBM\Lakes and Fishibi\FISH\Fish Tissue Monitoring\Database\FTM.accdb
Format to be received from Lab	text
Method of receipt from lab/s	email attachment
Personnel receiving outside lab data	Sandra Goodrow and Brian Henning
Is data expected to go to WQDE/STORET?	Yes
Data manager - (Bureau and Name)	BFBM Leigh Lager

Table 1. Site List

Station ID(WQDE compliant and referenced)	Waterbody/Location	Latitude-dd	Longitude-dd	County	Site exists in WQDE already?	Location Type
FTM33	Big Timber Creek @ Runnemede	-75.09302	39.85013	Camden	No	River/stream
NJW04459-047	Cooper River Lake @ Camden	-75.08513	39.94823	Camden	No	Lake
NJLM-0908	Crystal Lake @ Fieldsboro	-74.73880	40.12439	Burlington	No	Lake
NJW04459-153	DOD Lake @ Penns Grove	-75.45824	39.74897	Salem	No	Lake
NJW04459-396	Evans Pond @ Evans Pond	-75.02210	39.89794	Camden	No	Lake
NJW04459-002	Kirkwood Lake @ Lindenwold	-74.99847	39.83533	Camden	No	Lake
FTM34	Mantua Creek @ Paulsboro	-75.22936	39.85352	Gloucester	No	River/stream
NJLM-0627	Mirror Lake @ Browns Mill	-74.56933	39.97127	Burlington	No	Lake
NJLM-1224	Newton Lake @ Collingswood	-75.08939	39.90579	Camden	No	Lake
NJLM-0384	Union Lake @ Millville	-75.06552	39.41675	Cumberland	No	Lake
FTM35	Oldmans Creek @ Pedricktown	-75.40510	39.76590	Salem	No	River/stream
FTM36	Pennsauken Creek @ Forked Landing Rd	-75.01234	39.97855	Camden	No	River/stream
FTM37	Rancocas Creek @ Centerton	-74.87310	39.99780	Burlington	No	River/stream
NJLM-1169	Stewart Lake @ Woodbury	-75.14276	39.84135	Gloucester	No	Lake
FTM38	Maurice River downstream from Millville	-75.03730	39.37781	Cumberland	No	River/stream

Table 2. Parameters

STATION ID	Field Msr/Obs	Flow	Water Chemistry	Continuous Monitoring	Biological	Sediment	Bacteria Collection	Habitat	Metrics	Indices
FTM33	No	No	Yes	No	No	No	No	No	No	No
NJW04459-047	No	No	Yes	No	No	No	No	No	No	No
NJLM-0908	No	No	Yes	No	No	No	No	No	No	No
NJW04459-153	No	No	Yes	No	No	No	No	No	No	No
NJW04459-396	No	No	Yes	No	No	No	No	No	No	No
NJW04459-002	No	No	Yes	No	No	No	No	No	No	No
FTM34	No	No	Yes	No	No	No	No	No	No	No
NJLM-0627	No	No	Yes	No	No	No	No	No	No	No
NJLM-1224	No	No	Yes	No	No	No	No	No	No	No
NJLM-0384	No	No	Yes	No	No	No	No	No	No	No
FTM35	No	No	Yes	No	No	No	No	No	No	No
FTM36	No	No	Yes	No	No	No	No	No	No	No
FTM37	No	No	Yes	No	No	No	No	No	No	No
NJLM-1169	No	No	Yes	No	No	No	No	No	No	No
FTM38	No	No	Yes	No	No	No	No	No	No	No

Table 3. Partners

STATION ID	Field Msr/Obs	Flow	Water Chemistry	Continuous Monitoring	Biological	Sediment	Bacteria Collection
FTM33	No	No	DEP	No	No	No	No
NJW04459-047	No	No	DEP	No	No	No	No
NJLM-0908	No	No	DEP	No	No	No	No
NJW04459-153	No	No	DEP	No	No	No	No
NJW04459-396	No	No	DEP	No	No	No	No
NJW04459-002	No	No	DEP	No	No	No	No
FTM34	No	No	DEP	No	No	No	No
NJLM-0627	No	No	DEP	No	No	No	No
NJLM-1224	No	No	DEP	No	No	No	No
NJLM-0384	No	No	DEP	No	No	No	No
FTM35	No	No	DEP	No	No	No	No
FTM36	No	No	DEP	No	No	No	No
FTM37	No	No	DEP	No	No	No	No
NJLM-1169	No	No	DEP	No	No	No	No
FTM38	No	No	DEP	No	No	No	No

Table 4. Water Chemistry

Analysis (lab name)	EPA Characteristic Name	Method Speciation Name	Result Sample Fraction	Result Measure Unit	Result Value Type	Sample Collection Type	Sample Collection Equipment
Axys Analytical	Mercury	NA	Total	ng/g	Actual	plug	Miscellaneous (Other)
Axys Analytical	2',3,3',4,5-PeCB(76842-07-4)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2',3,4,4',5-PeCB(65510-44-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2',3,4,5,5'-PeCB(70424-70-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2',3,4,5,6'-PeCB(74472-39-2)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2',3,4,5-TeCB(70362-48-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2',3,4-TrCB(38444-86-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2',3,5-TrCB(37680-68-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3',4,5-PeCB(41464-51-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3',4,6-Pentachlorobiphenyl(60233-25-2)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4',5,6-HpCB(52663-70-4)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl(2051-24-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl(40186-72-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,4',5,5'-OcCB(35694-08-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,4',5,6'-OcCB(42740-50-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,4',5,6,6'-NoCB(52663-79-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,4',5,6-Octachorobiphenyl(52663-78-2)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,4',5-Heptachlorobiphenyl(35065-30-6)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)

Axys Analytical	2,2',3,3',4,4',6,6'-OcCB(33091-17-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,4',6-Heptachlorobiphenyl(52663-71-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,4'-Hexachlorobiphenyl(38380-07-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,5',6,6'-Octachlorobiphenyl(40186-71-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,5',6-HpCB(40186-70-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,5'-HxCB(52663-66-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,5,5',6'-OcCB(52663-75-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,5,5',6,6'-NoCB(52663-77-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,5,5',6-OcCB(68194-17-2)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,5,5'-HpCB(52663-74-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,5,6'-HpCB(38411-25-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,5,6,6'-OcCB(52663-73-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,5,6-HpCB(68194-16-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,5-HxCB(55215-18-4)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,6'-HxCB(38380-05-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,6,6'-HpCB(52663-65-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4,6-HxCB(61798-70-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',4-PeCB(52663-62-4)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',5,5',6,6'-OcCB(2136-99-4)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',5,5',6-HpCB(52663-67-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',5,5'-HxCB(35694-04-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous

							(Other)
Axys Analytical	2,2',3,3',5,6'-HxCB(52744-13-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',5,6,6'-HpCB(52663-64-6)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',5,6-HxCB(52704-70-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',5-PeCB(60145-20-2)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',6,6'-HxCB(38411-22-2)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3',6-PeCB(52663-60-2)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,3'-TeCB(38444-93-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4',5',6-HxCB(38380-04-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4',5,5',6-Heptachlorobiphenyl(52663-68-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4',5,5'-HxCB(51908-16-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4',5,6'-HxCB(74472-41-6)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4',5,6,6'-HpCB(74487-85-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4',5,6-HxCB(68194-13-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4',5-PeCB(68194-07-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4',6,6'-HxCB(68194-08-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4',6-PeCB(68194-05-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4'-TeCB(36559-22-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,4',5',6-HpCB(52663-69-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,4',5'-Hexachlorobiphenyl(35065-28-2)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,4',5,5',6-OcCB(52663-76-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)

Axys Analytical	2,2',3,4,4',5,5'-HpCB(35065-29-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,4',5,6'-HpCB(60145-23-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,4',5,6,6'-OcCB(74472-52-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,4',5,6-HpCB(74472-47-2)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,4',5-HxCB(35694-06-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,4',6'-HxCB(59291-64-4)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,4',6,6'-HpCB(74472-48-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,4',6-HxCB(56030-56-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,4'-PeCB(65510-45-4)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,5',6-HxCB(68194-14-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,5'-PeCB(38380-02-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,5,5',6-HpCB(52712-05-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,5,5'-HxCB(52712-04-6)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,5,6'-HxCB(68194-15-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,5,6,6'-HpCB(74472-49-4)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,5,6-HxCB(41411-61-4)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,5-PeCB(55312-69-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,6'-PeCB(73575-57-2)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,6,6'-HxCB(74472-40-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,6-PeCB(55215-17-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4-TeCB(52663-59-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous

							(Other)
Axys Analytical	2,2',3,5',6-PeCB(38379-99-6)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,5'-Tetrachlorobiphenyl(41464-39-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,5,5',6-HxCB(52663-63-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,5,5'-PeCB(52663-61-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,5,6'-PeCB(73575-55-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,5,6,6'-HxCB(68194-09-2)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,5,6-PeCB(73575-56-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,5-TeCB(70362-46-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,6'-TeCB(41464-47-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,6,6'-PeCB(73575-54-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,6-TeCB(70362-45-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3-TrCB(38444-78-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',4,4',5',6-Hexachlorobiphenyl(60145-22-4)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',4,4',5,5'-Hexachlorobiphenyl(35065-27-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',4,4',5-PeCB(38380-01-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',4,4',6,6'-HxCB(33979-03-2)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',4,4',6-PeCB(39485-83-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',4,4'-Tetrachlorobiphenyl(2437-79-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',4,5'-TeCB(41464-40-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',4,5,'6-PeCB(60145-21-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)

Axys Analytical	2,2',4,5,5'-Pentachlorobiphenyl(37680-73-2)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',4,5,6'-PeCB(68194-06-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',4,5-TeCB(70362-47-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',4,6'-TeCB(68194-04-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',4,6,6'-PeCB(56558-16-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',4,6-TeCB(62796-65-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',4-TrCB(37680-66-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',5,5'-Tetrachlorobiphenyl(35693-99-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',5,6'-TeCB(41464-41-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',5-Trichlorobiphenyl(37680-65-2)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',6,6'-TeCB(15968-05-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',6-TrCB(38444-73-4)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2'-DiCB(13029-08-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3',4',5-TeCB(32598-11-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3',4',6-TeCB(41464-46-4)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3',4,4',5',6-HxCB(59291-65-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3',4,4',5,5'-HxCB(52663-72-6)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3',4,4',5-Pentachlorobiphenyl(31508-00-6)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3',4,4',6-PeCB(56558-17-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3',4,4'-Tetrachlorobiphenyl(32598-10-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3',4,5'-TeCB(73575-52-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous

							(Other)
Axys Analytical	2,3',4,5,'6-PeCB(56558-18-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3',4,5,5'-PeCB(68194-12-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3',4,5-TeCB(73575-53-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3',4,6-TeCB(60233-24-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3',4-TrCB(55712-37-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3',5',6-TeCB(74338-23-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3',5,5'-TeCB(41464-42-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3',5-TrCB(38444-81-4)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3',6-TrCB(38444-76-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3'-DiCB(25569-80-6)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4',5',6-HxCB(74472-45-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4',5,5',6-HpCB(69782-91-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4',5,5'-HxCB(39635-34-2)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4',5,6-HxCB(74472-44-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4',5-PeCB(70424-68-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4',6-PeCB(38380-03-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4'-TeCB(41464-43-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4'-TeCB(74338-24-2)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4,4',5',6-HpCB(74472-50-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4,4',5'-HxCB(69782-90-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)

Axys Analytical	2,3,3',4,4',5,5',6-OcCB(74472-53-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4,4',5,5'-HpCB(39635-31-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4,4',5,6-HpCB(41411-64-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4,4',5-HxCB(38380-08-4)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4,4',6-HxCB(74472-42-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4,4'-Pentachlorobiphenyl(32598-14-4)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4,5',6-HxCB(74472-43-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4,5'-PeCB(70362-41-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4,5,5',6-HpCB(74472-51-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4,5,5'-HxCB(39635-35-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4,5,6-HxCB(41411-62-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4,5-PeCB(70424-69-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',4,6-PeCB(74472-35-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',5',6-PeCB(68194-10-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',5'-TeCB(41464-49-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',5,5',6-HxCB(74472-46-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',5,5'-PeCB(39635-32-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',5,6-PeCB(74472-36-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',5-TeCB(70424-67-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3',6-TeCB(74472-33-6)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,3'-TrCB(38444-84-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous

							(Other)
Axys Analytical	2,3,4',5,6-PeCB(68194-11-6)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,4',5-TeCB(74472-34-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,4',6-TeCB(52663-58-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,4'-TrCB(38444-85-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,4,4',5,6-HxCB(41411-63-6)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,4,4',5-PeCB(74472-37-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,4,4',6-PeCB(74472-38-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,4,4'-TeCB(33025-41-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,4,5,6-PeCB(18259-05-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,4,5-TeCB(33284-53-6)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,4,6-TeCB(54230-22-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,4-TrCB(55702-46-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,5,6-TeCB(33284-54-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,5-TrCB(55720-44-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3,6-TrCB(55702-45-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,3-Dichlorobiphenyl(16605-91-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,4',5-TrCB(16606-02-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,4',6-TrCB(38444-77-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,4'-Dichlorobiphenyl(34883-43-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,4,4',5-TeCB(32690-93-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)

Axys Analytical	2,4,4',6-TeCB(32598-12-2)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,4,4'-Trichlorobiphenyl(7012-37-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,4,5-Trichlorobiphenyl(15862-07-4)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,4,6-TrCB(35693-92-6)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,4-DiCB(33284-50-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,5-DiCB(34883-39-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,6-DiCB(33146-45-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2-Chlorobiphenyl(2051-60-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	3,3',4,4',5,5'-HxCB(32774-16-6)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	3,3',4,4',5-Pentachlorobiphenyl(57465-28-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	3,3',4,4'-Tetrachlorobiphenyl(32598-13-3)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	3,3',4,5'-TeCB(41464-48-6)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	3,3',4,5,5'-PeCB(39635-33-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	3,3',4,5-TeCB(70362-49-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	3,3',4-TrCB(37680-69-6)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	3,3',5,5'-TeCB(33284-52-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	3,3',5-TrCB(38444-87-0)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	3,3'-DiCB(2050-67-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	3,4',5-TrCB(38444-88-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	3,4'-DiCB(2974-90-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	3,4,4',5-TeCB(70362-50-4)	NA	Total	ng/g	Actual	fillet	Miscellaneous

							(Other)
Axys Analytical	3,4,4'-TrCB(38444-90-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	3,4,5-TrCB(53555-66-1)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	3,4-DiCB(2974-92-7)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	3,5-DiCB(34883-41-5)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	3-MoCB(2051-61-8)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	4,4'-DiCB(2050-68-2)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	4-MoCB(2051-62-9)	NA	Total	ng/g	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',3,4,4',5',6-Heptabromodiphenyl ether(207122-16-5)	NA	Total	ng/kg	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',4,4',5,5'-Hexabromodiphenyl ether(68631-49-2)	NA	Total	ng/kg	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',4,4',5-Pentabromodiphenyl ether(60348-60-9)	NA	Total	ng/kg	Actual	fillet	Miscellaneous (Other)
Axys Analytical	2,2',4,4',6-Pentabromodiphenyl ether(189084-64-8)	NA	Total	ng/kg	Actual	fillet	Miscellaneous (Other)
Axys Analytical	Benzene, 2,4-dibromo-1-(2,4-dibromophenoxy)-(5436-43-1)	NA	Total	ng/kg	Actual	fillet	Miscellaneous (Other)
Axys Analytical	Decabromobiphenyl ether(1163-19-5)	NA	Total	ng/kg	Actual	fillet	Miscellaneous (Other)
Axys Analytical	Polybrominated diphenyl ether 154(207122-15-4)	NA	Total	ng/kg	Actual	fillet	Miscellaneous (Other)
Axys Analytical	Tribromodiphenyl ether(49690-94-0)	NA	Total	ng/kg	Actual	fillet	Miscellaneous (Other)

Table 5. Lab Worksheet

	Laboratory	Lab Number	Method	Method ID Context	Method Detection Limit	units	Holding Time	Preservative
Total Mercury	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1631	USEPA	0.0896	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2',3,3',4,5-PeCB(76842-07-4)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2',3,4,4',5-PeCB(65510-44-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2',3,4,5,5'-PeCB(70424-70-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.03	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2',3,4,5,6'-PeCB(74472-39-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2',3,4,5-TeCB(70362-48-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2',3,4-TrCB(38444-86-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2',3,5-TrCB(37680-68-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3',4,5-PeCB(41464-51-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3',4,6-Pentachlorobiphenyl(60233-25-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4',5,6-HpCB(52663-70-4)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.

2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl(2051-24-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl(40186-72-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.05	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,4',5,5'-OcCB(35694-08-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,4',5,6'-OcCB(42740-50-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,4',5,6,6'-NoCB(52663-79-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.05	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,4',5,6-Octachorobiphenyl(52663-78-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,4',5-Heptachlorobiphenyl(35065-30-6)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,4',6,6'-OcCB(33091-17-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.03	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,4',6-Heptachlorobiphenyl(52663-71-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,4'-Hexachlorobiphenyl(38380-07-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,5',6,6'-Octachlorobiphenyl(40186-71-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,5',6-HpCB(40186-70-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.

2,2',3,3',4,5'-HxCB(52663-66-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,5,5',6'-OcCB(52663-75-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,5,5',6,6'-NoCB(52663-77-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.05	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,5,5',6-OcCB(68194-17-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,5,5'-HpCB(52663-74-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,5,6'-HpCB(38411-25-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,5,6,6'-OcCB(52663-73-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.03	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,5,6-HpCB(68194-16-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,5-HxCB(55215-18-4)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,6'-HxCB(38380-05-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,6,6'-HpCB(52663-65-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',4,6-HxCB(61798-70-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.

2,2',3,3',4-PeCB(52663-62-4)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',5,5',6,6'-OcCB(2136-99-4)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',5,5',6-HpCB(52663-67-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',5,5'-HxCB(35694-04-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',5,6'-HxCB(52744-13-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',5,6,6'-HpCB(52663-64-6)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',5,6-HxCB(52704-70-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',5-PeCB(60145-20-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',6,6'-HxCB(38411-22-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3',6-PeCB(52663-60-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,3'-TeCB(38444-93-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4',5',6-HxCB(38380-04-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.

2,2',3,4',5,5',6-Heptachlorobiphenyl(52663-68-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4',5,5'-HxCB(51908-16-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4',5,6'-HxCB(74472-41-6)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.03	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4',5,6,6'-HpCB(74487-85-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4',5,6-HxCB(68194-13-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4',5-PeCB(68194-07-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4',6,6'-HxCB(68194-08-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.03	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4',6-PeCB(68194-05-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4'-TeCB(36559-22-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,4',5',6-HpCB(52663-69-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,4',5'-Hexachlorobiphenyl(35065-28-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,4',5,5',6-OcCB(52663-76-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.

2,2',3,4,4',5,5'-HpCB(35065-29-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,4',5,6'-HpCB(60145-23-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,4',5,6,6'-OcCB(74472-52-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.05	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,4',5,6-HpCB(74472-47-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,4',5-HxCB(35694-06-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.03	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,4',6'-HxCB(59291-64-4)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,4',6,6'-HpCB(74472-48-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,4',6-HxCB(56030-56-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,4'-PeCB(65510-45-4)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,5',6-HxCB(68194-14-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,5'-PeCB(38380-02-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,5,5',6-HpCB(52712-05-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.

2,2',3,4,5,5'-HxCB(52712-04-6)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,5,6'-HxCB(68194-15-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,5,6,6'-HpCB(74472-49-4)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,5,6-HxCB(41411-61-4)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.03	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,5-PeCB(55312-69-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,6'-PeCB(73575-57-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,6,6'-HxCB(74472-40-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.03	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,6-PeCB(55215-17-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4-TeCB(52663-59-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,5',6-PeCB(38379-99-6)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,5'-Tetrachlorobiphenyl(41464-39-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,5,5',6-HxCB(52663-63-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.

2,2',3,5,5'-PeCB(52663-61-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,5,6'-PeCB(73575-55-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,5,6,6'-HxCB(68194-09-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,5,6-PeCB(73575-56-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,5-TeCB(70362-46-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,6'-TeCB(41464-47-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,6,6'-PeCB(73575-54-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,6-TeCB(70362-45-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3-TrCB(38444-78-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',4,4',5',6-Hexachlorobiphenyl(60145-22-4)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',4,4',5,5'-Hexachlorobiphenyl(35065-27-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',4,4',5-PeCB(38380-01-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.

2,2',4,4',6,6'-HxCB(33979-03-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.03	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',4,4',6-PeCB(39485-83-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',4,4'-Tetrachlorobiphenyl(2437-79-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',4,5'-TeCB(41464-40-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',4,5,'6-PeCB(60145-21-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',4,5,5'-Pentachlorobiphenyl(37680-73-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',4,5,6'-PeCB(68194-06-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',4,5-TeCB(70362-47-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',4,6'-TeCB(68194-04-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',4,6,6'-PeCB(56558-16-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',4,6-TeCB(62796-65-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',4-TrCB(37680-66-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.

2,2',5,5'-Tetrachlorobiphenyl(35693-99-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',5,6'-TeCB(41464-41-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',5-Trichlorobiphenyl(37680-65-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',6,6'-TeCB(15968-05-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',6-TrCB(38444-73-4)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2'-DiCB(13029-08-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3',4',5-TeCB(32598-11-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3',4',6-TeCB(41464-46-4)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3',4,4',5',6-HxCB(59291-65-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3',4,4',5,5'-HxCB(52663-72-6)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3',4,4',5-Pentachlorobiphenyl(31508-00-6)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3',4,4',6-PeCB(56558-17-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.

2,3',4,4'-Tetrachlorobiphenyl(32598-10-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3',4,5'-TeCB(73575-52-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3',4,5,'6-PeCB(56558-18-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3',4,5,5'-PeCB(68194-12-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3',4,5-TeCB(73575-53-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3',4,6-TeCB(60233-24-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3',4-TrCB(55712-37-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3',5',6-TeCB(74338-23-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3',5,5'-TeCB(41464-42-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3',5-TrCB(38444-81-4)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3',6-TrCB(38444-76-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3'-DiCB(25569-80-6)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.

2,3,3',4',5',6-HxCB(74472-45-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4',5,5',6-HpCB(69782-91-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4',5,5'-HxCB(39635-34-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4',5,6-HxCB(74472-44-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4',5-PeCB(70424-68-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.03	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4',6-PeCB(38380-03-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4'-TeCB(41464-43-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4'-TeCB(74338-24-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4,4',5',6-HpCB(74472-50-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4,4',5'-HxCB(69782-90-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4,4',5,5',6-OcCB(74472-53-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.05	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4,4',5,5'-HpCB(39635-31-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.

2,3,3',4,4',5,6-HpCB(41411-64-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4,4',5-HxCB(38380-08-4)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4,4',6-HxCB(74472-42-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4,4'-Pentachlorobiphenyl(32598-14-4)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4,5',6-HxCB(74472-43-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4,5'-PeCB(70362-41-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4,5,5',6-HpCB(74472-51-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4,5,5'-HxCB(39635-35-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4,5,6-HxCB(41411-62-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4,5-PeCB(70424-69-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',4,6-PeCB(74472-35-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',5',6-PeCB(68194-10-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.

2,3,3',5'-TeCB(41464-49-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',5,5',6-HxCB(74472-46-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.04	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',5,5'-PeCB(39635-32-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',5,6-PeCB(74472-36-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.03	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',5-TeCB(70424-67-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3',6-TeCB(74472-33-6)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,3'-TrCB(38444-84-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,4',5,6-PeCB(68194-11-6)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,4',5-TeCB(74472-34-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,4',6-TeCB(52663-58-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,4'-TrCB(38444-85-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,4,4',5,6-HxCB(41411-63-6)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.

2,3,4,4',5-PeCB(74472-37-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,4,4',6-PeCB(74472-38-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,4,4'-TeCB(33025-41-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,4,5,6-PeCB(18259-05-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,4,5-TeCB(33284-53-6)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,4,6-TeCB(54230-22-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,4-TrCB(55702-46-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,5,6-TeCB(33284-54-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,5-TrCB(55720-44-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3,6-TrCB(55702-45-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,3-Dichlorobiphenyl(16605-91-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,4',5-TrCB(16606-02-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.

2,4',6-TrCB(38444-77-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,4'-Dichlorobiphenyl(34883-43-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,4,4',5-TeCB(32690-93-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,4,4',6-TeCB(32598-12-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,4,4'-Trichlorobiphenyl(7012-37-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,4,5-Trichlorobiphenyl(15862-07-4)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,4,6-TrCB(35693-92-6)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,4-DiCB(33284-50-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,5-DiCB(34883-39-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,6-DiCB(33146-45-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2-Chlorobiphenyl(2051-60-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
3,3',4,4',5,5'-HxCB(32774-16-6)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.

3,3',4,4',5-Pentachlorobiphenyl(57465-28-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
3,3',4,4'-Tetrachlorobiphenyl(32598-13-3)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
3,3',4,5'-TeCB(41464-48-6)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
3,3',4,5,5'-PeCB(39635-33-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.03	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
3,3',4,5-TeCB(70362-49-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
3,3',4-TrCB(37680-69-6)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
3,3',5,5'-TeCB(33284-52-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
3,3',5-TrCB(38444-87-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
3,3'-DiCB(2050-67-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
3,4',5-TrCB(38444-88-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
3,4'-DiCB(2974-90-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
3,4,4',5-TeCB(70362-50-4)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.

3,4,4'-TrCB(38444-90-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
3,4,5-TrCB(53555-66-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
3,4-DiCB(2974-92-7)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
3,5-DiCB(34883-41-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
3-MoCB(2051-61-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
4,4'-DiCB(2050-68-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.02	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
4-MoCB(2051-62-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1668	USEPA	0.01	ng/g	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',3,4,4',5',6-Heptabromodiphenyl ether(207122-16-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1614	USEPA	3.00	ng/kg	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',4,4',5,5'-Hexabromodiphenyl ether(68631-49-2)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1614	USEPA	2.00	ng/kg	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',4,4',5-Pentabromodiphenyl ether(60348-60-9)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1614	USEPA	4.00	ng/kg	1 year	Ice to 4ºC in field. Freeze within 24 hours.
2,2',4,4',6-Pentabromodiphenyl ether(189084-64-8)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1614	USEPA	2.00	ng/kg	1 year	Ice to 4ºC in field. Freeze within 24 hours.
Benzene, 2,4-dibromo-1-(2,4-dibromophenoxy)-(5436-43-1)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1614	USEPA	2.50	ng/kg	1 year	Ice to 4ºC in field. Freeze within 24 hours.

Decabromobiphenyl ether(1163-19-5)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1614	USEPA	70.00	ng/kg	1 year	Ice to 4ºC in field. Freeze within 24 hours.
Polybrominated diphenyl ether 154(207122-15-4)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1614	USEPA	2.00	ng/kg	1 year	Ice to 4ºC in field. Freeze within 24 hours.
Tribromodiphenyl ether(49690-94-0)	AXYS ANALYTICAL SERVICES LTD - CANA005	CANA005	1614	USEPA	2.00	ng/kg	1 year	Ice to 4ºC in field. Freeze within 24 hours.