

# Southern California Bight 2013 Regional Monitoring Survey (Bight'13)

## Information Management Plan



Prepared by:

Bight'13 Information Management Committee

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**Disclaimer:** While we strive to make the Information Management Plan as accurate as possible when we publish it, there may be times at which we may find it necessary to make some minor changes. Please check the data submission website at [www.sccwrp.org\datasubmission\bight13](http://www.sccwrp.org\datasubmission\bight13) for the most current version of the Information Management Plan and most current values in a given look-up list. If a value seems appropriate for a field but is not listed, please contact the Information Management Officer to discuss its inclusion.

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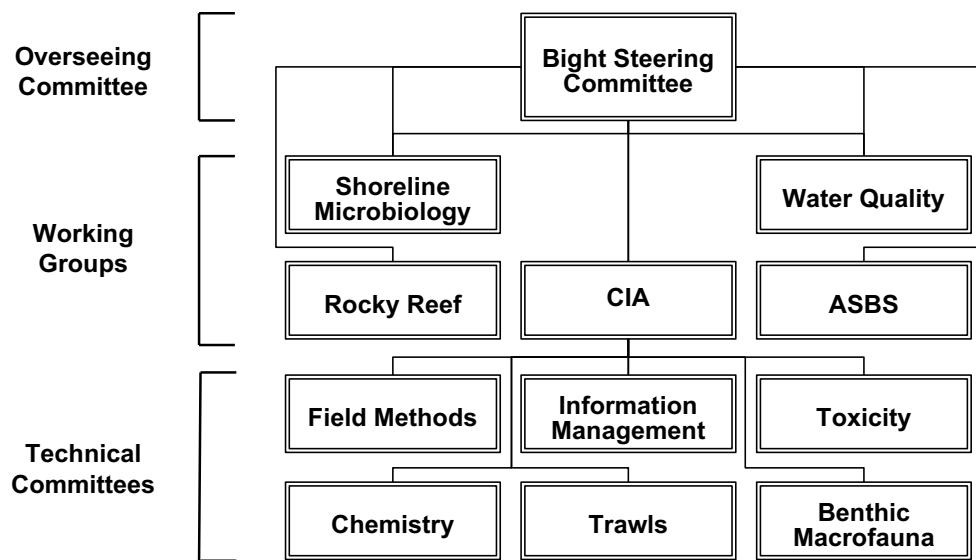
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## I. INTRODUCTION TO BIGHT'13

The Southern California Bight 2013 Regional Monitoring Project (Bight'13) is a cooperative effort involving more than 100 agencies, including international and volunteer organizations, to assess the overall ecological health of the Southern California Bight (SCB). Bight'13 builds upon previous successful regional surveys and includes new questions and new participants. Cooperative programs such as this one are important in providing a regional perspective to conditions in the marine and estuarine habitats of the Southern California Bight.

The large scope of this survey provides a unique challenge to organizing and structuring the necessary committees and data management practices to ensure its success. The overall structure of all of the Bight surveys has varied from survey to survey depending on the focus; however, the general structure of the groups has stayed the same throughout. For Bight'13 there are five major working groups 1) Contamination Investigation and Assessment (CIA); 2) Shoreline Microbiology; 3) Water Quality; 4) Areas of Special Biological Significance (Figure 1). In addition, there are six technical sub committees responsible for the technical aspects of the survey. These technical committees are responsible for delineating a set of common methods and standards to be used in the field and lab. Specifically, the Information Management Technical Committee is responsible for creating Standardized Data Transfer Protocols (SDTPs) to ensure data comparability and ease of data analyses.



**Figure 1. Layout of the groups and committees for Bight'13.**

The main challenge for the Bight'13 Information Management committee is the development of a unified data system that is California Environmental Data Exchange Network (CEDEN) comparable. Each of the participating organizations has developed and is using their own data management system. These systems vary in the types of data captured, the software systems in which they are stored, and the degree of data documentation. In order to meet the project goal of producing a regional assessment of the Southern

California Bight, a cooperative information management system is necessary to ensure that the collected data can be shared effectively among participants and reported to CEDEN.

Information management needs to occur on several levels. First, a process must be developed to ensure the quality, compatibility, and timeliness of the data each organization collects. Once collected and organized, it must be readily available to the project scientists for review, analysis, and interpretation. Ultimately, this information will be made available to other interested organizations and the general public.

This document describes the information management system (IMS) that will support Bight'13. The document focuses on four major functions of the IMS:

- The Standardized Data Transfer Protocols each participating agency will use to transfer data from their internal IMS to the Bight'13 IMS.
- The data submission process for submitting data to the Bight'13 Information Management Officer.
- The technical guidelines of how the data will be organized in the centralized Bight'13 database.
- The milestones and mechanisms by which the data will be made accessible to project participants, other organizations, and the general public.

## **II. APPROACH TO INFORMATION MANAGEMENT**

The Bight'13 Information Management System (IMS) serves several purposes, the primary of which is to provide a mechanism for sharing data among project participants and making that data CEDEN comparable. Data sharing is required if the Bight'13 goal of producing an integrated regional assessment of the Southern California Bight is to be achieved. While this is the primary focus, the IMS has been developed in recognition that Bight'13 represents an ongoing effort toward data standardization among Bight-wide regional monitoring participants and that protocols adopted here may be later used for other data sharing purposes beyond this project. Thus, the system was designed to be flexible to future adaptation. In addition, the system was constructed primarily to serve the project scientists, but it has also been designed to supply data to non-project scientists and the interested public.

The IMS will be based on a centralized data storage model. A centralized system was selected because Bight'13 is an integrated project and the typical data user will be interested in obtaining the whole data set (or large parts thereof), rather than smaller units of data (individual parameters, subset of the geographic range) residing in individual laboratories. The centralized system was selected over the alternative of a distributed system linked through a series of FTP sites because sophisticated tools would have to be developed for users to access those sites, plus the difficulty of maintaining a linked-distributed system over an extended number of years.

The centralized database will be developed using standardized data transfer protocols (SDTP) for data exchange. The SDTP details the information to be submitted with each sample collection or processing element, the units and allowable values for each parameter, and the order in which that information will be

submitted. They are necessary to ensure that data submitted by the participants are comparable and easily merged without significant effort or assumptions by the organization responsible for maintaining the centralized data system. Use of SDTP allows each participating organization to retain data they generate in their local data management system while providing a mechanism for data exchange among project participants and a means for populating a centralized database.

The SDTP will be organized through a relational structure. A relational structure involves use of multiple data tables linked through one or more common fields. A relational structure allows data created at different times (e.g. lab data vs. field data) to be entered at the time of data production, minimizing the possibility of data loss. A relational structure also minimizes redundant data entry, by allowing data that are recorded only once (e.g. station location) to be entered into separate tables rather than to be repeated in every data record.

CEDEN comparability is achieved through a combination of techniques. Required fields in the CEDEN data submission templates have been mapped to the traditional fields that have been used by the Bight projects traditionally. In the description of each field, the CEDEN mapping has been included in the form of (CEDEN.cedentablename.cedenfieldname). Some data remains constant for the entire data set such as Project Code, for example. For those data, an additional table under the Bight table captures the additional data that will be added by SCCWRP to populate the CEDEN data submission templates.

CEDEN requirements not only constrain valid values by single fields, but also require a combination of fields to have a particular set of matching values for those fields. This is referred to in CEDEN as a constituent code. This document addresses that condition in two different ways. The first approach is to include all of the fields that are required to populate the constituent code. That technique creates the constituent code with a constrained list of valid values for each of the fields that make up the constituent code. In some cases, adding all of the fields expands the number of fields to an unwieldy table structure and makes it difficult for data entry. This is especially true for the field data tables. In that case, the constituent code is integrated into the look-up list of valid values for that particular field. CEDEN compliance can then be achieved by joining on the look-up list to populate the additional fields in the CEDEN data entry templates.

#### A. ***STANDARDIZED DATA TRANSFER PROTOCOLS***

The SDTP for the Bight'13 survey includes two common tables, the Stations table, and the StationOccupation tables. In addition, the CIA work group Assessment component contains 15 additional data tables. More data tables will be added to the Information Management Plan as other Bight'13 survey components (i.e. shoreline microbiology, water quality, ASBS and wetlands) are solidified.

The first level in all of the components is the Station table, which includes a single data record for each site sampled. The Station table includes descriptors such as latitude, longitude, and general location. The Station table will also contain inclusion probabilities/area weights for each sample type at each sample site to ensure that samples are properly weighted in data analysis; since a stratified random sampling design was used to select sample sites for many Bight'13 stations, data are not equally weighted in their contribution to an overall project mean. One difference between the Bight'13 survey and previous surveys is that approximately half of the sample stations will be revisits to previous survey sites ( $\frac{1}{4}$  Bight'98 and  $\frac{1}{4}$  Bight'03) in order to produce a trends assessment.

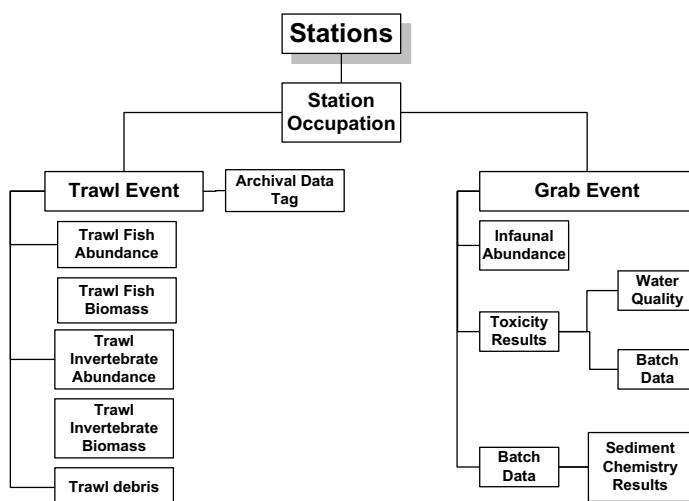
The second level is the Station Occupation table, which requires a record for each visit to a sampling site. Date, time, and environmental descriptors such as weather and sea state are included in this table. The Station Occupation table is linked to the Station table by a StationID field, which resides in both tables.

The third level is the Sample Event table, which contains a record for each sampling activity conducted during a visit to a site. All sampling efforts will be recorded to the event level regardless of whether the sample attempt was successful or not. This information is recorded not only to show level of effort, but also to indicate areas that potentially cannot be sampled, for future surveys. There are currently two types of Sampling Event Tables (more will be added later) corresponding to the two types of sampling activities conducted in the CIA work group components of Bight'13 (Grab and Trawl). The Sampling Event table is used to record information about each of these events, such as trawl duration, observations about sediment type in a grab, etc. StationID and SampleDate link the Sampling Event tables to the Station Occupation table.

The fourth level is the Results table, which contains a separate record for every measurement result. These Results tables corresponding to different types of measurements conducted in the field (e.g. fish abundance) or in the laboratory (e.g. chemical concentration). StationID and SampleDate link the Results tables to Sampling Event tables. For some tables, they are also linked by Sample Time and Trawl Number.

Within the Results tables, all data are captured at the level of individual replicate, rather than in a summarized form. Fields for summary quality assurance information are also included. Detailed laboratory QA data will be retained at the laboratory where the data were generated.

Figure 2 provides a listing of all of the tables in the SDTP for CIA work group and illustrates their relational structure. The detailed descriptions of each field in each data table in the SDTP are found in each section related to specific portions of the project. Appendix 1 provides look-up lists of acceptable entries for each field, where a constrained list is required. Appendix 2 provides the structure in which metadata for the project will be stored.



**Figure 2. CIA work group Relational Data Structure.**

**B. FIELD COMPUTER**

A field computer will be used whenever possible to collect station occupation (visual observation) and event data during the Bight'13 survey. A field data acquisition application had been developed by SCCWRP and LACSD for use during the Bight'13 survey, and has subsequently been refined for use with Bight'13. This system facilitates the collection of all the required station occupation and field sampling event information (e.g., grabs and trawls). This system has been designed to be used on laptop computers and has special built-in features that accommodate the upload of data through SCCWRP's web-based data submission page. Use of the Bight'13 Field Data System is strongly recommended during the survey. The most current version of the field computer software, the Bight'13 Field Data System, can be downloaded from SCCWRP's website at [www.sccwrp.org/datatools/bight13/](http://www.sccwrp.org/datatools/bight13/).

A new version of the field computer is available for android tablets.

If a field computer cannot be used, all required sampling event information must be recorded on Bight'13 field data sheets and subsequently loaded into Microsoft Excel (preferred) data files for submission to the Bight'13 Information Manager. Data submission formats and standards are described in this document.

The Bight'13 Field Data System has the following requirements:

- Runs in Windows XP, 2000 or Vista OS environments;
- Stores data in an MS Access 2000, 2003 or 2007 application;
- Receives direct input of data from DGPS through a serial port assuring that all samples are associated with accurate location information and eliminating transcription error associated with hand-written entry of these data.

Some of the Bight'13 Field Data System features include:

- Provides data entry templates for all sampling event information required by the Bight'13 Information Management Plan;
- Employs drop down lists of acceptable values for many data entry fields, thereby reducing entry time and assuring accuracy and compliance with Bight'13 data standards;
- Capable of producing fully completed hardcopy Bight'13 field sampling data sheets which can be used for data backup;

- Produces export data files of all sampling event information in Bight'13 compliant Microsoft Excel files suitable for direct submission to the project Information Manager.

### **III. ROLES AND RESPONSIBILITIES**

Bight'13 is a cooperative effort among more than 100 organizations (plus numerous additional subcontractor labs), which have limited experience working together. Effective implementation of the Bight'13 Information Management Plan requires clearly defined roles for each participant.

For the purpose of defining these roles, there will be four types of participants in Bight'13:

- Data generator - Field crew leaders and laboratory supervisors who will be responsible for compiling the data their organization generates and entering the data into one or more of the SDTP tables. The data generator is also responsible for QA/QC checks on the data prior to its submission.
- Agency Information Management (AIM) Coordinator - Responsible for keeping track of all data generated within their agency and acting as the primary contact for the Bight'13 Information Management Officer.
- Bight'13 Information Management Officer (IMO) - Responsible for working with Agency Information Managers to develop and create SDTPs and manage the data submission process, as well as the centralized Bight'13 database.
- Bight'13 Technical Subcommittee chairs (TSC) - Responsible for overseeing the scientific quality assurance of data through the database development and analyses processes. They are also responsible for working with the Bight'13 Information Management Officer to generate metadata.

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#### **B. AGENCY INFORMATION MANAGEMENT (AIM) CONTACT INFORMATION**

**Table 1. Contamination Investigation and Assessment Agency Information Management Coordinators (AIM).**

NAME	AGENCY	E-MAIL	TELEPHONE

## Bight '13 Information Management Plan

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Karin Patick	Aquatic Bioassay Consultants (ABC)	<a href="mailto:Karin@aquabio.org">Karin@aquabio.org</a>	(805) 643-5621 x 17

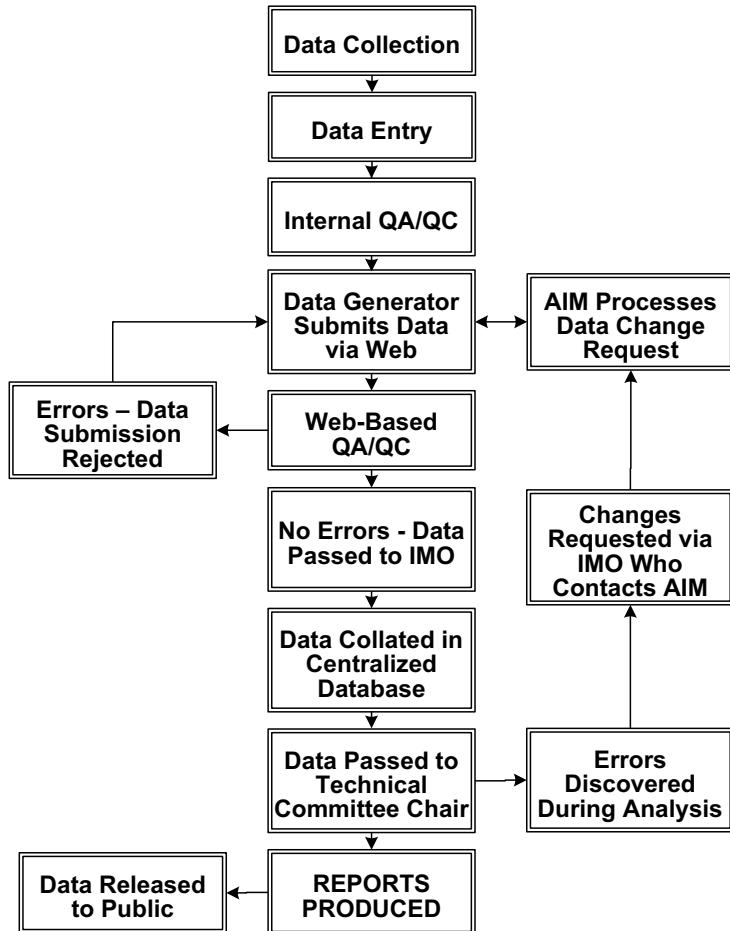
### C. DATA FLOW

Each field crew or laboratory generating data will initially enter the data into their own data management system and subject it to their own internal QA/QC procedures (Figure 3). Recommended QA procedures include double entry of data, completeness, and range checks. Data will next be submitted to the Bight'13 Information Management Officer (IMO) via the online data submission system. Each Agency Information Manager (AIM) will be notified via email when a data set is submitted by their agency. Submission in Microsoft Excel format which follows the SDTP is recommended. Each data generator will retain a copy of each file submitted as a back-up, until the centralized database is declared complete by the Bight'13 IMO.

Each submitting group within the agency will initiate a series of error checks to ensure the data: 1) are within specified ranges appropriate to each parameter measured, 2) contain all required fields, 3) have encoded valid values from constrained look-up lists where specified, and 4) are in correct format (text in text fields, values in numeric fields, etc.).

Once the data is successfully submitted to the IMO it will then be passed onto the appropriate Technical Committee Chair (TCC) for scientific review. If errors are found in the data during this review, the AIM will be notified and can work with the data generator to submit a data change request, if deemed appropriate. Data will not be changed at any time without prior permission from the AIM and/or data generator. If there are only a few, easily correctable errors, the data generator may submit a change request to the IMO via SCCWRP's online change request form located at the following website:

[www.sccwrp.org/datasubmission/changes/](http://www.sccwrp.org/datasubmission/changes/). If larger, more detailed changes are required, the IMO will work with the AIM to submit a new complete set of data through the online data submission system.



**Figure 3. Data flow from collection through submission and release to the public.**

Once all data tables of a particular data type (e.g. all tables containing fish data) have been certified by the IMO and the TCC, the data will be available to other committee members, as assigned by the TCC, for final data analysis.

#### D. DATA REVISION

Three types of data revisions are likely to be required after the data have been submitted to the IMO. The first type of revision is to data where errors have been discovered by data users, who may find anomalies after conducting analyses beyond those done by the TCC. If the data in question is maintained as part of a locally available data set, the IMO will contact the AIM and ask them to work with the data generator to resolve the discrepancy. If the agency is not maintaining the data locally, the IMO will contact the data generator directly, using contact information provided in the metadata.

Following resolution, corrections to the centralized data will be made by the IMO. Access to the database for other users will be in read-only form. Prior to making any changes, the IMO will document the changes and

receive (written or electronic) concurrence from the organization that originated the data (or the AIM, as appropriate). The IMO will only make changes in the centralized database. Originating organizations will be responsible for making corresponding changes in their own internal data storage systems. All changes to the data will be documented in a computerized file available to all data users or through an on-line data change form.

The second type of error is those discovered after the fact by the data generators. Any project participant can initiate a request for changing data by notifying the IMO, who will then follow the procedures outlined above.

The third type of error is those resulting from changes in taxonomy or nomenclature following data completion. No attempt will be made as part of Bight'13 data maintenance to update species names and keep the taxonomy current with future name changes. The IMO may choose to add a taxonomy equivalency table to the metadata in subsequent years, as appropriate.

**E. SCHEDULE**

The schedule for data submission varies by data type. Data collected in the field will be due first, while data that requires laboratory analysis will be produced on a schedule consistent with nominal laboratory processing times. The schedule for initial submission of data to the IMO is summarized in Table 2. It is recommended that individual data generators provide their data to their AIM approximately one month prior to the deadlines listed in Table 2, so that there is sufficient time for the AIM to resolve any data discrepancies and to ensure that the data are in the proper format for submission to the IMO.

**Table 2. Expected time between the end of sampling and the transfer of CIA data from the Data Generators to the Bight'13 Information Management Officer (IMO).**

TABLE TYPE	DUE DATE (MONTHS AFTER SAMPLING COMPLETE)	ACTUAL DUE DATE
GrabEvent	3 Months	02-Dec-2013
StationOccupation	3 Months	02-Dec-2013
TrawlDebris	5 Months	03-Feb-2014
TrawlEvent	3 Months	02-Dec-2013
FishBiomass	8 Months	05-May-2014
FishAbundance	8 Months	05-May-2014
InvertBiomass	8 Months	05-May-2014
InvertAbundance	8 Months	05-May-2014
PressureTemperature	5 Months	03-Mar-2014
SedimentToxBatch	3 Months	02-Dec-2013
SedimentToxResults	3 Months	02-Dec-2013
SedimentToxWQ	3 Months	02-Dec-2013
Chem Metals	1 Year	01-Sep-2014
Chem Nutrients	1 Year	01-Sep-2014
Chem Organics	1 Year	01-Sep-2014
Chem Tissue	1 Year	01-Sep-2014
Benthic Infauna	18 Months	02-Mar-2015

## IV. SUBMISSION GUIDELINES

### A. OVERVIEW

All monitoring data will be submitted to the Bight'13 Information Management Officer. The preferred method of submission is via SCCWRP's online data system ([www.sccwrp.org/datasubmission/bight13/](http://www.sccwrp.org/datasubmission/bight13/)); however, other methods may be used if the data submitter clears it through the Information Management Officer. The guidelines for each data table are included in this document. Please refer to the appropriate table for the correct structure and information. All data submissions are preferred to be complete and partial data submissions are discouraged.

Data must be submitted in Microsoft Excel format.

### B. How To Use This Document

The tabular descriptions of each data type give useful information to the person(s) responsible for submitting tables in the appropriate format. The first column contains the exact name for the field or the column name, as it should be used for data submissions. Do not add spaces or other characters to the field names. Field

names that are bolded are intended to indicate a combination of fields that provide a unique record within the table.

The second column describes the type of variable to be used for the data in the field. The variable types are:

- Text any alphanumeric character
- Number numbers are divided into two numeric types
  - Integer Whole numbers (no decimal places)
  - Decimal Decimal numbers (Floating Point in SQL Server)
- Date/Time allows for formatted date or time data
- Yes/No Boolean indicating Yes or No

The third column indicates whether the field is mandatory or not.

- Y indicates that the field is mandatory,
- N indicates the field is not mandatory,
- \* indicates that the field is conditionally mandatory

The fourth column indicates the size of the text fields. Only text fields have sizes. Comment fields are typically limited to 255 characters and it is highly recommended that only comments necessary and relevant to that record be recorded.

The fifth column gives a short description of the field and may contain a reference to a relevant look-up list containing a constrained list of values that are allowable. In addition, any default values may be listed here.

An additional small table will appear after the submission requirements table. That table will describe data that SCCWRP will add to make the submission CEDEN comparable.

### Submission Documentation

The preferred method of data submission is through SCCWRP's online data submission page. This page can be found at: [www.sccwrp.org/datasubmission/bight13/](http://www.sccwrp.org/datasubmission/bight13/). Additional information and instructions can be found on this web site. Our system requires that files be submitted as Microsoft Excel spreadsheets with specific tab names and field names (see table structures below). Data will be checked for consistency and quality. Our system provides instant feedback on any data problems and allows the user to refine their data and submit again. Once the data are accepted by the data checker, the data submitter will receive a receipt indicating successful submission and any other relevant information. This receipt can be printed for proof of data submission. The data is then transferred into a centralized Bight'13 database. Once all data for a given portion of the survey is complete, it will be given to the appropriate Technical Committee Chair for scientific review.

### Common Errors

Certain errors commonly occur that prevent the data from loading to the database. These include spelling the field names incorrectly or typing additional characters such as spaces or underscores. Other errors include

using values in fields that are not appropriate for the specific field, such as inputting character data to numerical fields or inputting values into fields that are limited by constrained lists. Additional errors can result from simply omitting fields. Each file should be scrutinized for these common errors prior to submission.

### Completeness

Data submissions typically will be rejected if they are incomplete. Partial data sets are discouraged; however, special circumstances may make it necessary to accept partial data sets. Please contact the Information Management Officer if there are questions about the submission of partial data sets.

### Geographic Conventions:

All latitude and longitude positions are based on the NAD83 datum and are expressed in decimal degrees (to five decimal places) to facilitate easy interfacing with GIS systems. All longitudes will be expressed as negative numbers.

## **C. DATA SUBMISSION PROTOCOLS**

The first row in the file will be the entire list of Field Names. These Field Names must be spelled exactly as they are in the description for each data table in the Information Management Plan. The subsequent rows will contain the actual data.

This Information Management Plan is only as current as the date on which it was published. In the event that additional modifications need to be made to data structures or look-up lists, these changes will be reflected on the data submission page. For the most current information on a given data table or look-up list please refer to this web site ([www.sccwrp.org/datasubmission/bight13/](http://www.sccwrp.org/datasubmission/bight13/)).

Example of a submitted file:

1	StationID	StationWaterDepth	StationWaterDepthUnits	SampleDate	SampleTime	GrabEventNumber	SamplingOrganization	GearCode	Latitude	Longitude	Datum	Penetration
2	Bight13_Station1	150	m	7/12/2012	8:00	1	SCCWRP	TVV	33.38285	-117.55072	NAD83	
3	Bight13_Station2	75	m	7/13/2012	8:15	2	SCCWRP	TVV	33.38285	-117.55072	NAD83	
4	Bight13_Station3	230	m	7/14/2012	9:25	3	SCCWRP	TVV	33.38285	-117.55072	NAD83	
5	Bight13_Station4	198	m	7/15/2012	9:45	4	SCCWRP	TVV	33.38285	-117.55072	NAD83	
6	Bight13_Station5	350	m	7/16/2012	10:00	5	SCCWRP	TVV	33.38285	-117.55072	NAD83	
7	Bight13_Station6	500	m	7/17/2012	10:10	6	SCCWRP	TVV	33.38285	-117.55072	NAD83	

**D. DATA ENTRY TEMPLATES**

To assist organizations in meeting the SDTP and improve the efficiency of data input, the IMO has created a series of computerized data entry templates. Requests for this data input templates can be made to the IMO. An example of a data input template is the Bight'13 Field Data System. The data entry templates available for the field sampling effort link to a shipboard global positioning system to automatically download date, time, and location. These templates provide drop-down lists for station designation, sea surface, weather, sediment quality observations, and most other data types. They reduce errors through the elimination of hand-made entries. The templates also eliminate spelling errors, ensure that the data entered is appropriate for that field, and that the data is complete. Development of laboratory data entry templates can also be created at the request of data users.

**V. DATA ACCESS**

**A. DATA RELEASE PHILOSOPHY**

Information management has been an important component of previous Bight surveys and has been instrumental in the successful analysis and assessment of environmental conditions in southern California. An area of concern with any collaborative project involving large numbers of participants is not only the timing of data release, but to which groups it is made available. The data release for Bight'13 will follow those used for previous Bight surveys and is based on a chronologically tiered system. The chronological steps with tiers include:

- Collection Agency: This agency can use any data collected by themselves or their contractors at any time at their own discretion.
- Information Management Officer (IMO): All organizations will submit their data to the IMO in accordance with the Bight'13 Information Management Plan. Upon receiving the data, the IMO will conduct detailed QA/QC procedures to check for regional data consistency. Once the data has passed these tests, the IMO will release the data to the appropriate Technical Committee Chair for further review.
- Technical Committees: The Technical Committee Chair will be provided data of the type for which they are responsible (i.e., chemistry or infauna or trawl or toxicity, etc.) immediately following certification by the IMO that the data is complete. The Technical Committee Chair may release this data to members of their committee to assist with scientific review and data analysis for their respective element of the Bight'13 program. The regional data set shall not be distributed outside of the Technical Committee until a data review has been completed.
- Other Technical Committees: Other Technical Committees will have access to the Bight'13 regional data once the primary Technical Committee Chair has conducted the scientific review for data analysis following approval by the Planning and/or Steering Committee. Any special requests for early data

release to other Technical Committees or nonparticipants must go through the Steering Committee for approval.

- Nonparticipants: Data will be released to nonparticipants once the Technical Committees have produced a final report that has been approved by the Planning and/or Steering Committee.

Once the Steering Committee has approved the Technical Committee Final Report the IMO will compile the regional data with necessary supporting documentation (i.e. metadata and Final Report) with access through the SCCWRP web site ([www.sccwrp.org/data](http://www.sccwrp.org/data)). Individual data tables, collections of data, and maps of the data can be downloaded or printed from the SCCWRP website.

#### ***B. METADATA***

Each release of Bight'13 data to the public will include comprehensive documentation of the data sets. Referred to as metadata, this documentation will include database table structures (including table relationships) and look-up tables used to populate the fields in each table. It will also include quality assurance classifications of the data and documentation of the methodologies by which the data were collected.

A second type of metadata will document changes made to the data over time. As the data are used, we anticipate that errors will be found. As changes to the data are made, they will be documented in a file organized by date and data table. Including this file with each data download will allow users to reconcile potential differences in analysis output that result from using different versions of the data.

Metadata will follow guidelines from the Federal Geographic Data Committee, Content standard for digital geospatial metadata, version 2.0. FGDC-STD-001-1998 (FGDC 1998), including the Biological Data Profile and the Biological Names and Taxonomy Data Standards developed by the National Biological Information Infrastructure (NBII 1999).

## **V. DATA TABLES**

#### ***A. COMMON TABLES***

Two tables are held in common for each of the data components that will be collected for Bight'13. The first table is the Stations table, which includes information on each station, such as general location, inclusion probabilities and area weights. This table is necessary to complete data analysis using the stratified, random sampling process. Descriptions of the sample draw can be found in the Bight'13 CIA Workplan. This table is filled in by the IMO and will not be considered complete until all sampling for a given survey component has been completed. This is necessary for computing area weights, as these values are computed based on the number of successful samples taken.

The second table is the Station Occupation table which includes information on the conditions and Sample Type (i.e. Grab and Trawl o) taken at each station. This table links to the Stations table by the field StationID. This table includes whether a station was successfully sampled or abandoned due to some unforeseen reason.

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### **tblStations**

**PURPOSE:** The file will be generated by SCCWRP. Each record represents a description of a geographical location including label, latitude, longitude, statistical subpopulation, inclusion probability, and statistical weight of the station. This table may be appended as stations are added from the overdraw pool to replace abandoned stations.

**TABLE GUIDELINES:** Each record will be unique based on StationID.

### **tblStations**

Name	Type	Required	Size	Description
StationID	Text	*Y	25	A geographic location label.  (CEDEN Stations.StationCode)
StationName	Text	*Y	100	A short description of the station location.  (CEDEN Stations.StationName)
SurveyID	Text	Y	25	The survey the station originated from.
Location	Text	D	50	The general location of the station  (CEDEN Locations.LocationCode)
Stratum	Text	Y	50	The parent sub-population to which the station belongs
Latitude	Decimal	*Y		The latitude of the station expressed in decimal degrees to <u>five decimal places</u> .  (CEDEN Stations.TargetLatitude)
Longitude	Decimal	*Y		The longitude of the station expressed as a negative number in decimal degrees <u>to five decimal places</u> .  (CEDEN Stations.TargetLongitude)

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Ports	Text	Y	50	A code for the ports. Z for not a member of stratum
BaysHarbors	Text	Y	50	A code for the bay or harbor station. Z for not a member of the stratum.
Marinas	Text	Y	50	A code for the marina station. Z for not a member of the stratum
Bath6to30	Yes/No	Y	1	The station belongs to the 6 to 30 meters stratum
Bath30to120	Yes/No	Y	1	The station belongs to the 30 to 120 meters stratum
Bath120to200	Yes/No	Y	1	The station belongs to the 120 to 200 meters stratum
Bath200to500	Yes/No	Y	1	The station belongs to the 200 to 500 meters stratum
Bath500to1000	Yes/No	Y	1	The station belongs to the 500 to 1000 meters stratum
Estuaries	Text	Y	35	A code for all Non-Los Angeles County estuaries. Z for not a member of the stratum.
Canyons	Text	Y	35	A code describing canyon sampling areas. Z for not a member of the stratum
ChannelIslands	Text	Y	50	A code for all Channel Islands stations. Z for not a member of the stratum.
InclusionProbability	Decimal	Y		Inclusion Probability
AreaWeight	Decimal	Y		Reciprocal of Inclusion probability

Additional CEDEN fields for the Station table (to be added by SCCWRP)

Field Name	Type	Required	Size	Description
ProjectCode	Text	Y	25	References the project that is associated with the sample.  (CEDEN FieldResults.ProjectCode =

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<b>"Bight2013")</b>				
CoordinateNumber	Integer	Y	<p><i>Number of coordinates recorded at the station. The default for Bight'13 is 1.</i></p> <p><i>(CEDEN Stations.CoordinateNumber)</i></p>	
LocalWatershed	Text	Y	50	<p>Local watershed of the station.</p> <p><i>(CEDEN Stations.LocalWatershed)</i></p>
State	Text	Y	2	<p>State in which the station was surveyed. Default = CA.</p> <p><i>(CEDEN Stations.State)</i></p>
LocalWaterBody	Text	Y	50	<p>Local water body of the station. Default is Pacific Ocean.</p> <p><i>(CEDEN Stations.LocalWaterBody)</i></p>
Counties_2004_County	Text	Y	50	<p>County in which the station was surveyed.</p> <p><i>(CEDEN Stations.Counties_2004_County)</i></p>
SWRCBWATERTypeCode	Text	Y	50	<p>Unique code assigned by the state for the appropriate water body type.</p> <p><i>(CEDEN Stations.SWRCBWATERTypeCode)</i></p>
CalWater_2004_RB	Text	Y	1	<p>Regional board id number from the Cal Water 2.2.1 2004 GIS Layer.</p> <p><i>(CEDEN Stations.CalWater_2004_RB)</i></p>
CalWater_2004_CALWNUM	Text	Y	12	<p>Watershed ID Number from the Cal Water 2.2.1 2004 GIS Layer.</p> <p><i>(CEDEN Stations.CalWater_2004_CALWNUM)</i></p>
CalWater_2004_HUNAME	Text	Y	35	<p>Hydrologic unit name number from the Cal Water 2.2.1 2004 GIS Layer.</p> <p><i>(CEDEN Stations.CalWater_2004_HUNAME)</i></p>
CalWater_2004_SWRCBNUM21	Text	Y	6	<p>State Water Resources Control Board (SWRCB) ID Number from the Cal Water 2.2.1 2004 GIS Layer.</p> <p><i>(CEDEN Stations.CalWater_2004_SWRCBNUM21)</i></p>

StationSource	Text	Y	50	(CEDEN Stations.StationSource = 'Bight13')
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### ***tblStationOccupation***

PURPOSE: The purpose of the Station Occupation table is to document the conditions under which each sample was collected. This table is used for sediment grab, trawl assemblage, and dive sampling regimes. Each record contains a characterization of the station at the time of sampling in terms of the weather, sea state, sample type, vessel name, agency, and quality of the GPS signal at the time of sampling.

Additionally the position of the station when it is initially occupied for a particular event is recorded along with the depth. This will act as a reference for the event locations and serves as an additional field QA measure.

#### TABLE GUIDELINES:

- Each record will be unique based on a combination of StationID, OccupationDate, OccupationTime, SamplingOrganization, and CollectionType.
- This file can be named at the discretion of the user; however the excel sheet tab must be named *tblStationOccupation* for submission to the Bight'13 online system.

#### SUBMISSION GUIDELINES:

- The Station Occupation table must be the first table submitted because of the requirement that each record in the event tables have a corresponding record in the Station Occupation table.

#### EXAMPLE DATA:

1	StationID	OccupationDate	OccupationTime	OccupationTimeZone	SamplingOrganization	CollectionType	Vessel	NavType	Salinity	SalinityUnits	WeatherCode	WindSpeed
2	B13-8001	13/Jul/2013	11:15:34	PSDT	SCCWRP	Grab	Avon	Android	27	psu	Clear	
3	B13-8002	14/Jul/2013	11:15:35	PSDT	SCCWRP	Grab	Avon	Android	27	psu	Clear	
4	B13-8003	01/Aug/2013	11:15:36	PSDT	SCCWRP	Grab	Avon	Android	27	psu	Clear	
5	B13-8004	07/Aug/2013	11:15:37	PSDT	SCCWRP	Grab	Avon	Android	27	psu	Clear	

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1	L	M	N	O	P	Q	R	S	T	U	V
1	WindSpeed	WindSpeedUnits	WindDirection	SwellHeight	SwellHeightUnits	SwellPeriod	SwellDirection	SeaState	StationFailCode	Abandoned	OccupationDepth
2	2 Knots per hour	W		1 Ft		15 W		Calm	S1	No	6 M
3	2 Knots per hour	E		1 Ft		15 W		Calm	S1	No	7 M
4	2 Knots per hour	N		1 Ft		15 W		Calm	S1	No	8 M
5	2 Knots per hour	S		1 Ft		15 W		Calm	S1	No	9 M
6											

1	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH
1	OccupationDepthUnits	OccupationLatitude	OccupationLongitude	OccupationDatum	Comments							
2	M	33.1	-117.1	NAD83	Test Record please delete							
3	M	33.2	-117.1	NAD83	Test Record please delete							
4	M	33.3	-117.1	NAD83	Test Record please delete							
5	M	33.4	-117.1	NAD83	Test Record please delete							
6												

### TABLE STRUCTURE:

#### tblStationOccupation

Field Name	Type	Required	Size	Description
StationID	Text	Y	25	A geographic location label from the station table. From tblStations.  (CEDEN allThree.StationCode)
OccupationDate	Date/Time	Y		The date the of the station visit expressed as dd/mmm/yyyy.  (CEDEN Locations.SampleDate)
OccupationTime	Date/Time	Y		The time of arrival on station expressed in 24-hour time (hh:mm:ss).  (CEDEN HabitatResults.CollectionTime)
OccupationTimeZone	Text	Y	10	The time zone of the arrival time. "PST" Pacific Standard Time, "PDT" Pacific Daylight Savings Time, or "NR" for Not Recorded. From luList42_TimeZoneConstituentCodes.

				(CEDEN HabitatResults.Analyte = "TimeZone")
<b>SamplingOrganization</b>	Text	D	20	An agency code assigned from CEDEN for each organization. See look-up list luList01_AgencyCodes.
				(CEDEN Locations.AgencyCode)
<b>CollectionType</b>	Text	Y	25	From luList04_SampleTypes
				(CEDEN allthree.CollectionMethod)
Vessel	Text	Y	50	The name of the vessel.
				(CEDEN LocationDetail.Vessel)
NavType	Text	Y	10	DGPS for differential/GPS for non-differential. From luList20_NavigationalInstrumentTypes. Default = "DGPS".
				(CEDEN LocationDetail.Analyte = "*")
				*CEDEN will check on this.
Salinity	Decimal	*		The field measure of the salinity of the sample water as reported by the instrument expressed in PSU or ppt. This is used for estuary samples only. See look-up list luList59_SalinityConstituentCodes.
				(CEDEN FieldResults.AnalyteName = "Salinity")
SalinityUnits	Text		15	Required if Salinity present. See look-up list luList59_SalinityConstituentCodes. Default = "PSU".
				(CEDEN FieldResults.UnitName)
WeatherCode	Text	Y	35	Field observation of habitat weather from luList08_WeatherConstituentCodes. Default = "Clear".
				(CEDEN HabitatResults.AnalyteName = "SkyCode")

WindSpeed	Integer	Y	Field measurement of habitat wind speed from instrument expressed in knots. See look-up list IuList57_WindSpeedConstituentCodes.  (CEDEN HabitatResults.AnalyteName = "WindSpeed")
WindSpeedUnits	Text	Y	15 Default = "KTS". See look-up list IuList57_WindSpeedConstituentCodes.  (CEDEN HabitatResults.UnitName)
WindDirection	Text	Y	10 Field observation of habitat wind direction N (North), NE (Northeast), E (East), SE (Southeast), S (South), SW (Southwest), W (West), NW (Northwest), XX (calm), NR (Not Recorded). Report in magnetic North. Default = "XX". See IuList05_WindDirectionConstituentCodes.  (CEDEN HabitatResults.AnalyteName = "WindDirection")
SwellHeight	Decimal	Y	Field Observation of the estimated swell height expressed in feet. See look-up list IuList56_SwellHeightConstituentCodes.  (CEDEN HabitatResults.AnalyteName = "SwellHeight")
SwellHeightUnits	Text	Y	15 Units the swell height was measured in. Default = "feet". See look-up list IuList56_SwellHeightConstituentCodes.  (CEDEN HabitatResults.UnitName)
SwellPeriod	Integer	Y	Field observation of the estimated average swell period in seconds. See look-up list IuList55_SwellPeriodConstituentCodes.  (CEDEN HabitatResults.AnalyteName = "SwellPeriod")
SwellDirection	Text	Y	10 Field Observation of magnetic direction from which the swell travels. N (North), NE (Northeast), E (East), SE (Southeast), S (South), SW (Southwest), W (West), NW (Northwest), XX

				(calm), NR (Not Recorded). See look-up list luList54_SwellDirectionConstituentCodes.
				<i>(CEDEN HabitatResults.AnalyteName = "SwellDirection")</i>
SeaState	Text	Y	25	Field Observation of sea state. Calm, Rough, Choppy, or Confused from luList16_SeaStateConstituentCodes.  <i>(CEDEN HabitatResults.AnalyteName = "SeaState")</i>
StationFailCode	Text	Y	25	From luList58_StationFailureCodes. Default value = "None".  <i>(CEDEN borrow from Bioassessment SampleHistory template.)</i>
Abandoned	Yes/No	Y		Was the station abandoned, never to be returned to? Default is no, but a yes requires a comment.  <i>(CEDEN To Be Determined)</i>
OccupationDepth	Decimal	Y		The FieldMeasure of the habitat sample depth expressed in meters. Fraction of None. See look-up list luList53_StationWaterDepthConstituentCodes.  <i>(CEDEN HabitatResults.AnalyteName = "StationWaterDepth")</i>
OccupationDepthUnits	Text	Y	15	Units the OccupationDepth was measured in. See look-up list luList53_StationWaterDepthConstituentCodes.  Default = "M".  <i>(CEDEN HabitatResults.UnitName)</i>
OccupationLatitude	Decimal	Y		Degrees of latitude express in decimal degrees to 5 decimal places (NAD83).  <i>(CEDEN Locations.ActualLatitude)</i>
OccupationLongitude	Decimal	Y		Degrees of longitude express in decimal degrees to 5 decimal places (NAD83) expressed as a

				<u>negative number.</u>  <i>(CEDEN Locations.ActualLongitude)</i>
OccupationDatum	Text	Y	10	The datum on which the latitude and longitude are based. The default = NAD83. See look-up list luList52_Datum.  <i>(CEDEN Locations.Datum)</i>
Comments	Text	255		Additional comments. <u>Required if Abandoned = "Yes"</u> or for Station Fail Codes that require a <u>comment</u> .  <i>(CEDEN HabitatResults.HabitatResultComments)</i>

Additional CEDEN fields for the Station Occupation table (to be added by SCCWRP).

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
ProjectCode	Text	Y	25	References the project that is associated with the sample. This will be added by SCCWRP when the CEDEN templates are populated.  <i>(CEDEN Locations.ProjectCode = 'Bight2013')</i>
CoordinateNumber	Integer	Y		<i>Number of coordinates recorded at the station. The default for Bight'13 is 1.</i>  <i>(CEDEN Stations.CoordinateNumber = 1)</i>

## **B. CONTAMINATION INVESTIGATION AND ASSESSMENT**

The Contamination Investigation and Assessment project has three main objectives: 1) Estimate the extent and magnitude of ecological change in the SCB, 2) Determine the trends in extent and magnitude of ecological change in the SCB, and 3) Determine the mass balance of pollutants that currently reside within the SCB. To answer these questions, a probability based design was selected in order to apply statistical analyses to these questions. The tables in this project are intended to support those analyses by providing data at the replicate level and including QA/QC data within the tables themselves.

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### **tblSedimentGrabEvent**

**PURPOSE:** The sediment grab event table documents all relevant information about each grab sample collected. The attributes of the grab are described including the geographic position to ensure that each grab met all of the sampling guidelines. Each successful grab will generate a record containing data used to describe the characteristics of the sediment collected in terms of the latitude, longitude, date, time, color, composition, odor, penetration, the presence or absence of shell hash, and the usage for the individual grab.

#### TABLE GUIDELINES:

- The combination of the fields StationID, SampleDate, SampleTime, GrabEventNumber, and SamplingOrganization ensure unique values for each record in the table.
- This file can be named at the discretion of the user; however the excel sheet tab must be named **tblSedimentGrabEvent** for submission to the Bight'13 online system.

#### SUBMISSION GUIDELINES:

- Station Occupation data must be submitted before the Sediment Grab Event data.
- Each Sediment Grab Event record must have a corresponding Station Occupation record.
- Records are matched on StationID, SampleDate, and Sampling Organization.

#### EXAMPLE DATA:

	A	B	C	D	E	F	G	H	I	J	K
1	StationID	StationWaterDepth	StationWaterDepthUnits	SampleDate	SampleTime	GrabEventNumber	SamplingOrganization	GearCode	Latitude	Longitude	Datum
2	B13-8001	5	M	14/Jul/2003	11:19:00		1	CLAEKD	VV	33.77	-118.25
3	B13-8001	5	M	14/Jul/2003	11:19:01		2	CLAEKD	VV	33.77	-118.25
4	B13-8001	5	M	14/Jul/2003	11:19:02		3	CLAEKD	VV	33.77	-118.25
5	B13-8002	50	M	22/Jul/2003	11:19:03		1	CINMS	VV	33.99	-119.49
6	B13-8002	50	M	22/Jul/2003	11:19:04		2	CINMS	VV	33.99	-119.49

	K1	f1	Datum	L	M	N	O	P	Q	R	S	T	U	V
1	Penetration	PenetrationUnit:Color	Composition	Odor	BenthicInfauna	SedimentChemistry	GrainSize	Toxicity	GrabFailCode	DebrisDetected	Comments			
2	15 CM	Olive Green	Silt/Clay	None	No	Yes	Yes	Yes G1		Yes				
3	15 CM	Olive Green	Silt/Clay	None	No	No	Yes	No G1		No				
4	15 CM	Olive Green	Silt/Clay	None	Yes	No	No	No G1		Yes				
5	0 CM	NR	NR	NR	No	No	No	No G1		No	hard bottom			
6	0 CM	NR	NR	NR	No	No	No	No G1		Yes	hard bottom			
7	0 CM	NR	NR	NR	No	No	No	No G1		No	hard bottom			

#### TABLE STRUCTURE:

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### tblSedimentGrabEvent

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
StationID	Text	Y	25	A geographic location label from the station table.  <i>(CEDEN Locations.StationCode)</i>
StationWaterDepth	Double	Y		The FieldMeasure of the habitat sample depth expressed in meters.  <i>(CEDEN HabitatResults.AnalyteName = "StationWaterDepth"; StationWaterDepth value will be recorded in Result field)</i>
StationWaterDepthUnits	Text	Y	15	Units the StationWaterDepth was measured in. See look-up list IuList53_StationWaterDepthConstituentCodes.  <i>(CEDEN HabitatResults.UnitName)</i>
SampleDate	Date/Time	Y		The date the sample was collected. Format dd/mmm/yyyy.  <i>(CEDEN AllResults.SampleDate)</i>
SampleTime	Date/Time	Y		The time the sample was collected expressed as 24-hour time (hh:mm:ss).  <i>(CEDEN AllResults.CollectionTime)</i>
GrabEventNumber	Integer	Y		Sequential number of each grab.  <i>(CEDEN Locations.LocationCode = "OpenWaterGrab" &amp; the grab number.)</i>
SamplingOrganization	Text	Y	20	An agency code assigned from CEDEN for each organization. See look-up list IuList01_AgencyCodes.  <i>(CEDEN AllResults.AgencyCode)</i>
GearCode	Text	Y	25	From IuList03_EquipmentCodes.

				<i>(CEDEN AllResults.CollectionDeviceName)</i>
Latitude	Decimal	Y		Degrees of latitude expressed in decimal degrees to 5 decimal places (NAD83).
				<i>(CEDEN Locations.ActualLatitude)</i>
Longitude	Decimal	Y		Degrees of longitude expressed in decimal degrees to <u>5</u> decimal places (NAD83) expressed as a <u>negative number</u> .
				<i>(CEDEN Locations.ActualLongitude)</i>
Datum	Text	Y	10	The datum on which the latitude and longitude are based. The default = NAD83. See look-up list luList52_Datum.
				<i>(CEDEN Locations.Datum)</i>
Penetration	Integer	Y		Penetration of the grab into the sediment expressed in CM.
				<i>(CEDEN AllResults.CollectionDepth)</i>
PenetrationUnits	Text	Y	15	From luList28_Units. The default value is CM.
				<i>(CEDEN AllResults.UnitCollectionDepth)</i>
Color	Text	Y	20	Field observation of the Color of the sediment. The default is "Olive Green". The Fraction and units are none. See look-up list luList18_SedimentColorsConstituentCodes.
				<i>(CEDEN HabitatResults.AnalyteName = "Color"; color value will be recorded in VariableResult field)</i>
Composition	Text	Y	20	Composition of the sediment. The Fraction and units are none. See luList06_SedimentCompositionConstituentCodes.
				<i>(CEDEN HabitatResults.AnalyteName = "Composition"; Compositionvalue will be recorded in VariableResult field)</i>
Odor	Text	Y	30	Odor of the sediment. The Fraction and units are

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				none. See look-up list luList07_OdorConstituentCodes.
				<i>(CEDEN HabitatResults.AnalyteName = "Odor"; odor value will be recorded in VariableResult field)</i>
BenthicInfauna	Yes/No	Y	1	Was this grab used for collecting Benthic Infauna?
SedimentChemistry	Yes/No	Y	1	Was this grab used for testing Sediment Chemistry?  <i>(CEDEN SampleHistory.SamplePurposeCode)</i>
GrainSize	Yes/No	Y	1	Was this grab used for testing Grain Size?  <i>(CEDEN SampleHistory.SamplePurposeCode)</i>
Toxicity	Yes/No	Y	1	Was this grab used for testing Toxicity?  <i>(CEDEN SampleHistory.SamplePurposeCode)</i>
GrabFailCode	Text	Y	25	Use to report any grab failures. Default = "None". See look-up list From luList40_GrabFailCodes.  <i>(CEDEN Collection.CollectionFailCode) to be added to CEDEN.</i>
DebrisDetected	Yes/No	Y	1	Was debris detected in this event?  <i>(CEDEN.ToBeDetermined)</i>
Comments	Text	D	255	Additional remarks relative to the grab.  <i>(CEDEN HabitatResults.HabitatCollectionComments)</i>

Additional CEDEN fields for the Grab Event table (to be added by SCCWRP).

Field Name	Type	Required	Size	Description
ProjectCode	Text	Y	25	References the project that is associated with the sample.  <i>(CEDEN FieldResults.ProjectCode = "Bight2013")</i>

ProtocolCode	Text	Y	50	<i>Protocol or standards for sampling.</i>  <i>(CEDEN ChemResults.ProtocolCode)</i>
EventCode	Text	Y	20	Represents the primary reason, i.e. water quality, tissue, or bioassessment sampling, of the sampling event at a particular station and date.  <i>(CEDEN ChemResults.EventCode)</i>
CollectionMethodCode	Text	Y	50	Refers to the general method of collection such as Sed_Grab, Sed_Core, Water_Grab, Autosampler24h, and Autosampler7D.  <i>(CEDEN ChemResults.CollectionMethodCode)</i>

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### ***tblChemistryBatch***

PURPOSE: This table contains information about preparation methods and dates within each lab. A batch is defined as a group of samples with which the QA results are associated. For some labs, QA data is associated with the preparation batch while other labs associate the QA data with analytical batches. Samples prepared in the same batch may move through the lab in different analytical batches. To minimize redundant data entry, the preparation batch information has been broken off into a separate table and is related to the *tblChemistryResults* through the *PreparationBatchID* code. Each record in this table represents all information common to each preparation batch.

#### TABLE GUIDELINES:

- The *PreparationBatchID* and *LabCode* fields will ensure that each record in the table is unique.
- This file can be named at the discretion of the user; however the excel sheet tab must be named *tblChemistryBatchData* for submission to the Bight'13 online system.

#### SUBMISSION GUIDELINES

There will be an audit when the Chemistry Results data is submitted. Each Chemistry Results record must have a corresponding Chemistry Batch record. Each Chemistry Batch record must have a corresponding Chemistry Results record.

**EXAMPLE DATA:**

	A	B	C	D	E	F	G	H	I	J	K	L
1	PreparationBatchID	LabCode	PreparationMethod	PreparationDate	Comments							
2	PCB20131021	LACSD	EPA625m	10/Oct/2013								
3	Metals20131031	LACSD	EPA6020m	10/Oct/2013								
4												
5												

**TABLE STRUCTURE:**

**tblChemistryBatchData**

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
PreparationBatchID	Text	Y	35	The code for all of the samples processed in the same preparation batch. For CEDEN submission purposes the PreparationBatchID will be expressed in the form of <b>LabCodePrepBatchFromLIMSAAnalysisType</b> where analysis type is the general chemical family being analyzed such metals or pesticides.  (CEDEN LabBatch.LabBatch)
LabCode	Text	Y	20	Agency analyzing the samples from luList01_AgencyCodes.  (CEDEN LabBatch.LabAgencyCode)
PreparationMethodCode	Text	Y	50	Method prepare the samples from luList25_PreparationMethodCodes.  (CEDEN ChemResults.DigestExtractMethod)
PreparationDate	Date/Time	Y		Date the sample preparation took place.  (CEDEN ChemResults.DigestExtractDate)
Comments	Text	N	100	Additional comments pertaining to the batch.  (CEDEN LabBatch.LabBatchComments)

Additional CEDEN fields for the Chemistry Batch table (to be added by SCCWRP).

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
SubmittingAgency	Text	N	20	Agency submitting the data.  <i>(CEDEN LabBatch.SubmittingAgencyCode)</i>

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### ***tblChemistryResults***

PURPOSE: The purpose of the chemistry results table is to document the analysis results for sediment chemistry and sediment grain size (other sample types such as tissue or water chemistry may be added at a later time). Each record represents a result from a specific analysis for a particular parameter at a single station or a single QA sample. This table will also contain all supporting QA sample results.

This table contains some information that will be derived from field data in order to facilitate data analysis. These fields are not required and may be loaded at a later time by the IMO. The fields include: DiscreteSampleDepth, DiscreteSampleDepthUnits, SampleTime, and SampleTimeUnits.

#### SPECIAL CASES:

##### Results vs. TrueValue:

The reported result is the number gathered from the analytical instrument. The "True Value" is the concentration of the parameter in the reference sample or the concentration of the spike. The purpose of the "True Value" is to facilitate the calculation of percent recovery. The True Value is only reported for matrix spikes and surrogates. A True Value of -99 will be reported for all other samples.

The range values for the minimum and maximum for parameters in the certified reference material will be carried in an ancillary table within the analytical database and will not be described here.

##### Matrix spikes:

The reported result is the number gathered from the instrument and is the net amount recovered from the sample after being corrected for the concentration from the non-spiked sample. For spiked samples the "True Value" is the concentration of the parameter added to the sample before analysis. Percent recovery will be calculated by dividing the result by the True Value times 100. The SampleType must be MS1 and the same LabSampleIDs must be used for both.

##### Recovery corrected data:

This is not reported because it can be calculated using the True Value of the reference material processed within the same batch.

Lab Replicates:

Lab replicates are defined as replicate samples taken from the same jar. The result for each replicate will be numbered starting at one, e.g. the result for the first replicate will have a LabReplicate of 1 and the result for the second duplicate will have a LabReplicate of 2, etc. Replicate samples taken in the field will have separate FieldDuplicate numbers and a LabReplicate of 1.

Non-Detects:

If the result is not reportable, a qualifier of “ND” should be used and the result reported as blank. In the case where the result is below method detection level or below the reporting level, but is being reported anyway, a qualifier of BMDL (below method detection limit). If the result is higher than the mdL but lower than the RL, a result may be reported and a qualifier of Detected-Not Quantified (DNQ) will be reported.

QA Samples:Sediment Chemistry:

QA samples not performed on site collected sediment samples will be given a StationID of “0000”. All site collected sediment samples will retain the StationID relative to the origin of the sample. QA SampleTypes include one of the following values: CRM-016, CRM-540, FEB, LCM, LCS, MB, MS, SRM-1944 (see luList04\_SampleTypes for definitions). All non-QA records should have a SampleType of “Result”.

Grain Size Parameter Codes:

The Gravel2m code is the percentage of the sediment sample retained on a 2-mm sieve. If no sediments are retained, the value will be zero. The other parameter codes refer to the percentage of sample in the size range. These data should not be adjusted for material retained on the sieve. Optional parameter codes to describe the statistical properties of the laser analyzer are included and may be reported. Default unit is percent under phi size.

**TABLE GUIDELINES:**

- The combination of the fields StationID, SampleDate, PreparationBatchID, Matrix, SampleType, ParameterCode, FieldDuplicate, LabReplicate, LabSampleID and LabCode will ensure that all records in the table are unique.
- This file can be named at the discretion of the user; however the excel sheet tab must be named tblChemistryResults for submission to the BIGHT'13 online system.

**EXAMPLE DATA:**

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	A	B	C	D	E	F	G	H	I	J
1	StationID	DiscreteSampleDepth	DiscreteSampleDepthUnits	SampleDate	SampleTime	BioaccumulationSampleID	PreparationBatchID	AnalysisBatchID	AnalysisDate	SampleType
2	B13-4073	38	M	29/Jul/2013	940	None	03306GSZ64	03306GSZ64	02/Nov/2003	RESULT
3	B13-4073	38	M	29/Jul/2013	940	None	03306GSZ64	03306GSZ64	02/Nov/2003	RESULT
4	B13-4073	38	M	29/Jul/2013	940	None	03306GSZ64	03306GSZ64	02/Nov/2003	RESULT
5	B13-4073	38	M	29/Jul/2013	940	None	03306GSZ64	03306GSZ64	02/Nov/2003	RESULT
6	B13-4073	38	M	29/Jul/2013	940	None	03306GSZ64	03306GSZ64	02/Nov/2003	RESULT

	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	Matrix	Fraction	AnalyteName	AnalysisMethod	Units	Qualifier	Result	FieldDuplicate	LabReplicate	LabSampleID	TrueValue	MDL	RL	LabCode	QACode	Comments
2	SEDIMENT	Total	Phi<0.5	HORIBA-LASER	ENT	None	0	1	1	P235890	-99	0.1	0	CSD	None	
3	SEDIMENT	Total	Phi0.0	HORIBA-LASER	ENT	None	0	1	1	P235890	-99	0.1	0	CSD	None	
4	SEDIMENT	Total	Phi0.5	HORIBA-LASER	ENT	None	0.097	1	1	P235890	-99	0.1	0	CSD	None	
5	SEDIMENT	Total	Phi1.0	HORIBA-LASER	ENT	None	1.366	1	1	P235890	-99	0.1	0	CSD	None	
6	SEDIMENT	Total	Phi1.5	HORIBA-LASER	PERC	None	3.633	1	1	P235890	-99	0.1	0	CSD	None	

### TABLE STRUCTURE:

#### tblChemistryResults

Field Name	Type	Required	Size	Description
StationID	Text	Y	25	A geographic location label from tblStations. <i>(CEDEN ChemResults.StationCode)</i>
DiscreteSampleDepth	Decimal	*		Required only for water chemistry. Depth within water column Report as -99 for sediment. <i>(CEDEN ChemResults.CollectionDepth)</i>
DiscreteSampleDepthUnits	Text	*	50	Units the discrete sample depth was measured in. From luList28_Units. Default = "M". <i>(CEDEN ChemResults.UnitCollectionDepth)</i>
SampleDate	Date/Time	Y		The date the sample was collected expressed as dd/mmm/yyyy. <i>(CEDEN ChemResults.SampleDate)</i>
SampleTime	Date/Time	Y		The time the sample was collected expressed as 24-hour time hh:mm:ss. <i>(CEDEN ChemResults.CollectionTime)</i>

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BioaccumulationSampleID	Text	*	50	*Required for tissue samples. Must match the BioaccumulationSampleID in the bioaccumulation organism table.  (CEDEN Tissue.CompositeID)
PreparationBatchID	Text	Y	50	A unique agency identifier for each batch of samples prepared together.  (CEDEN ChemResults.?)
AnalysisBatchID	Text	Y	25	The code for all samples processed in the same batch  (CEDEN ChemResults.LabBatch)
AnalysisDate	Date/Time	Y		The date the sample was processed in the instrument expressed as dd/mmm/yyyy.  (CEDEN ChemResults.AnalysisDate)
SampleType	Text	Y	50	The type of QA or sample result from luList04_SampleTypes.  (CEDEN ChemResults.SampleTypeCode)
Matrix	Text	Y	25	The test material from luList14_TestMatrices.  (CEDEN ChemResults.MatrixName)
Fraction	Text	Y	25	The fraction analyzed, ex. Total, Dissolved, etc. From luList61_Fractions  (CEDEN ChemResults.FractionName)
AnalyteName	Text	Y	50	The measured parameter from luList15_ParameterCodes.  <b>Use CEDEN LU list as modified by Chem subcommittee to be supplied</b>  (CEDEN ChemResults.AnalyteName)
AnalysisMethod	Text	Y	75	The analysis method from luList24_AnalysisMethods  (CEDEN ChemResults.MethodName)
Units	Text	Y	15	Units for the result from LuList28_Units.  <b>Embed MeasurementBasis</b>  (CEDEN ChemResults.UnitName)

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Qualifier	Text	N	10	Any necessary qualifier from luList11_QualifierCodes.  (CEDEN ChemResults.ResQualCode)
Result	Text	Y		The measured result from the sample analysis. For spike samples, record actual value (native concentration + spike amount). *Non Detect: leave Result field blank and record QACode of ND.  (CEDEN ChemResults.Result)
FieldDuplicate	Integer	Y		Count from the field.  (CEDEN ChemResults.Replicate)
LabReplicate	Integer	Y		Count from the laboratory.  (CEDEN ChemResults.LabReplicate)
LabSampleID	Text	Y	50	Unique sample identifier for the reporting agency. Replicates and MS/MSD must have the same LabSampleID.  (CEDEN ChemResults.SampleID)
TrueValue	Decimal	*		Required for all CRM, Spiked Samples and surrogates. Concentration of spike amount added to the sample.  (CEDEN ChemResults.ExpectedValue)
MDL	Decimal	Y		Method Detection Limit based on 40CFR136.  (CEDEN ChemResults.MDL)
RL	Decimal	Y		Reporting Level as defined in metadata.  (CEDEN ChemResults.RL)
LabCode	Text	Y	15	Agency code from luList01_AgencyCodes.  (CEDEN ChemResults.AgencyCode.)
QACode	Text	Y	50	Describes variations in processing  (CEDEN ChemResults.QACode)
Comments	Text	N	255	Additional remarks from analyzing agency.  (CEDEN ChemResults.LabResultComments)

Additional CEDEN fields for the Chemistry Results table (to be added by SCCWRP).

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
ProjectCode	Text	Y	25	References the project that is associated with the sample.  <i>(CEDEN FieldResults.ProjectCode = "Bight2013")</i>
ProtocolCode	Text	Y	50	<i>(CEDEN ChemResults.ProtocolCode)</i>
EventCode	Text	Y	20	Represents the primary reason, i.e. wat quality, tissue, or bioassessment sampling, of the sampling event at a particular station and date.  <i>(CEDEN ChemResults.EventCode)</i>
CollectionMethodCode	Text	Y	50	Refers to the general method of collection such as Sed_Grab, Sed_Core, Water_Grab, Autosampler24h, and Autosampler7D.  <i>(CEDEN ChemResults.CollectionMethodCode)</i>
CollectionDeviceName	Text	Y	50	Unique name of the collection device.  <i>(CEDEN ChemResults.CollectionDeviceName)</i>

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### ***tblInfaunalAbundance***

PURPOSE: The purpose of the infaunal abundance table is to document the numerical presence of all infaunal animals collected at a station. Each record represents the abundance of a particular infaunal species in an individual sample and the agency that collected the species.

The exclude code is explained below. If the agency wishes to separate adults and juveniles of the same species, the number of juveniles can be carried in the comments field, but the abundance number will reflect the total number of animals of that species at that station.

The species field should contain genus and species names free of any punctuation, including, periods, commas, and quotation marks. The ScreenSize field refers to the size screen used to process the sample on board ship and is carried for historical purposes.

### **Exclude Notation**

Purpose: Provides an aid to data analysis when calculating metrics using the number of taxa present (e.g., diversity, species richness). This field in the final data set represents the taxonomist's recommendation that the reported taxon be excluded from counts of the number of taxa reported in the sample.

Rule of Use: The Exclude annotation is made on the bench sheet whenever a taxon should be excluded from counts of the number of taxa reported in the sample. This annotation is employed when three conditions co-exist:

The identification is not at the species-level (e.g., Pleustidae or *Polydora* sp).

And

The reported taxon is represented in the sample by other members of its taxon, which have been identified at lower levels.

And

The taxonomist cannot determine if the specimen is distinct from the other members of its taxon represented in the sample.

It is necessary that the taxonomists make this evaluation during sample analysis (*i.e.*, by annotation of the bench sheet). It cannot be effectively applied after the fact, as there is no way of determining later whether the third criterion for use was met.

#### TABLE GUIDELINES:

- The combination of StationID, Replicate, SampleDate, SampleTime, Subcore, Species, LabCode, and AnalysisType will ensure that each record in the table is unique.
- This file can be named at the discretion of the user; however the excel sheet tab must be named tbllInfaunalAbundance for submission to the Bight'13 online system.

#### SUBMISSION GUIDELINES:

Two types of benthic data will be submitted at different times. First, project data from identification and enumeration of all the samples will be submitted. After these submissions are complete, these data submissions will be closed down and submissions of the data from samples selected for QA reanalysis will commence. The data type of submission is displayed on the welcome screen and recorded at the time of submission by the audit program in the "Analysis Type" field as "Initial" or "QAReanalysis." This field should not be included in the web submission.

- We prefer that each organization submit all their Bight'13 data of each type at one time in a single submission. Identification and enumeration data for initial analysis and QA reanalysis should each be included in single submissions.
- Duplication of entered data for stations where entry has previously been completed is not permitted. The audit program rejects new data of the same type for stations where initial or reanalysis data have been successfully submitted.
- Each infaunal abundance record must have a corresponding record in the Sediment Grab Event Table where BenthicInfauna = true. The tables are matched on the StationID and SampleDate fields.
- Species and taxon names are audited at two levels. First, entries contravening naming rules and conventions by including information such as “fragments” or “juveniles” in the name, rather than the comments field will be rejected by the audit program. Details are provided in Section 4 (pages 13 & 14) of the Bight'13 Macrobenthic Sample Analysis Laboratory Manual.
- After the audit program determines that taxon names in the submission conform with the rules, names are compared with the SCAMIT Edition 8 list, and the submitter is provided a summary and details of names that do not match existing entries. These mismatches are not rejected by the audit program because there is an expectation that provisional names and previously unrecorded taxa may be encountered during regional surveys. Instead, the submitter is provided the mismatch information and has the choice of reviewing the names for typographical and other errors offline and finalizing the data submission later, or finalizing the data submission immediately. The list of names being used for comparison can be downloaded from the Bight '13 Data Submission Page. The link is the first item, “Bight'13 Infauna Species List ” in the “DOWNLOAD THE MOST CURRENT VERSION SECTION”
- Once the data submission is finalized, please e-mail copies of the encountered species list for the submission to Benthic Committee cochairs Cheryl Brantley ([cbrantley@lacsd.org](mailto:cbrantley@lacsd.org)) and Ananda Ranasinghe ([AnandaR@sccwrp.org](mailto:AnandaR@sccwrp.org)) as specified in the Bight'13 Macrobenthic Sample Analysis Laboratory Manual, Section 4.6. The main purpose of the encountered species list is the “Authority” field in the species list, which serves to identify the description associated with the name as well as the authority, in order to identify and resolve discrepancies for the Synoptic Data Review (Bight'13 Macrobenthic Sample Analysis Laboratory Manual, Section 4.6).

EXAMPLE DATA:

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O1	A	B	C	D	E	F	G	H	I	J	K	L	M	N
	StationID	SampleID	Replicate	SampleDate	SampleTime	Species	Qualifier	Abund	Exclude	LabCode	SieveSize	SieveSizeUnits	Voucher	PersonalVoucher
1	B13-0400		1	14/Jul/2003	09:15:27	Theora lubrica	None	43	No MEC	1.0	mm	43	0	
2	B13-0400		1	14/Jul/2003	09:15:27	Dorvillea	None	66	No MEC	1.0	mm	10	0	
3	B13-0400		1	14/Jul/2003	09:15:27	Aphelochaeta sp LA1	None	2	No MEC	1.0	mm	2	0	
4	B13-0400		1	14/Jul/2003	09:15:27	Streblosoma sp SF1	None	2	No MEC	1.0	mm	2	0	
5	B13-0400		1	14/Jul/2003	09:15:27	Thyasira flexuosa	None	1	No MEC	1.0	mm	1	0	
6	B13-0400		1	14/Jul/2003	09:15:27	Syllis (Tynosyllis)	None	1	No MEC	1.0	mm	1	0	
7	B13-0400		1	14/Jul/2003	09:15:27									

M1	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC
	AnalysisType	Taxonomist	Comments												
1	Initial	Larry Lovell													
2	Initial	Larry Lovell													
3	Initial	Larry Lovell													
4	Initial	Larry Lovell													
5	Initial	Larry Lovell													
6	Initial	Larry Lovell													
7	Initial	Larry Lovell													

### TABLE STRUCTURE:

#### tblInfaunalAbundance

Field Name	Type	Required	Size	Description
StationID	Text	Y	25	A geographic location label from tblStations.  (CEDEN TaxonomyResults.StationCode)
SampleID	Text	N	10	The laboratory internal sample identifier if any.  (CEDEN TaxonomyResults.LabSampleID)
Replicate	Integer	Y		The sequential number of the grab. The field may contain a one if there are no replicates.  (CEDEN TaxonomyResults.Replicate)
SampleDate	Date/Time	Y		The date the sample was collected expressed as dd/mmm/yyyy.  (CEDEN TaxonomyResults.SampleDate)
SampleTime	Date/Time	Y		Time the sample was collected expressed in 24 hour time (hh:mm).  (CEDEN TaxonomyResults.CollectionTime)
Species	Text	Y	50	The species of infauna collected from SCAMIT Edition 8.

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				(CEDEN TaxonomyResults.FinalID)
Qualifier	Text	N	10	Any qualifier pertaining to the abundance from luList11_QualifierCodes (special case p for colonials to indicate their presence only).  (CEDEN TaxonomyResults.ResQualCode)
Abundance	Integer	Y		The number of individuals (0 for colonials).  (CEDEN TaxonomyResults.Result)
Exclude	Yes/No	Y		Flag to exclude from the analysis.  (CEDEN TaxonomyResults.ExcludedTaxa)
LabCode	Text	Y	15	The agency code from luList01_AgencyCodes.  (CEDEN TaxonomyResults.AgencyCode)
SieveSize	Text	Y	3	Sieve size in MM. The default for this project is 1.0.  (CEDEN TaxonomyResults.SieveSize)
SieveSizeUnits	Text	Y	15	From luList28_units. <u><b>The default will be millimeters (MM)</b></u>
Voucher	Integer	*		The number of animals vouchered of this species from this station.  (CEDEN TaxonomyResults.?)
Personal Voucher	Integer	*		The number of animals retained by the taxonomist  (CEDEN TaxonomyResults.?)
AnalysisType	Text	Y	24	Type of analysis. Either "Initial" or "QAReanalysis".  (Not reported to CEDEN.)
Taxonomist	Text	Y	35	"Last Name, First Initial"  (CEDEN TaxonomyResults.PersonnelCode_Results)
Comments	Text	N	255	Additional comments.  (CEDEN TaxonomyResults.Comments)

Additional CEDEN fields for the Taxonomy table (to be added by SCCWRP).

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
ProjectCode	Text	Y	25	References the project that is associated with the sample. This will be added by SCCWRP when the CEDEN templates are populated.  <i>(CEDEN TaxonomyResults.ProjectCode = 'Bight2013')</i>
UnitAbundance	Text	Y	25	<i>(CEDEN TaxonomyResults.UnitName = 'count')</i>

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### ***tblToxicityBatchInformation***

PURPOSE: This table is used to record information specific to each test batch processed in the laboratory and is used as supporting documentation for the Toxicity Test data. Each record represents specific information common to a group of samples processed at the same time and is pertinent to all replicates processed. This is QA/QC data needed to document the test results.

#### TABLE GUIDELINES:

- Each record will be unique based on a combination of the fields QABatch, LabCode and TestDuration.
- This file can be named at the discretion of the user; however the excel sheet tab must be named *tblToxicityBatchInformation* for submission to the Bight'13 online system.

#### SUBMISSION GUIDELINES:

Toxicity data must be submitted in the following order:

- Toxicity Batch Information must be submitted first.
- Toxicity Results is submitted second.
- Toxicity Water Quality is submitted last.

#### EXAMPLE DATA:

S1	A	B	C	D	E	F	G	H	I	J	K
1	ToxBatch	LabCode	Species	Protocol	TestStartDate	Matrix	ActualTestDuration	ActualTestDurationUnits	TargetTestDuration	TargetTestDurationUnits	TestAccepted
2	mgcRT0814	LACSD	MG	ANDERSON 1996	14/AUG/2013	RT		48 Hours		48 Hours	A
3	mgcSed0814	LACSD	MG	ANDERSON 1996	14/AUG/2013	SWI		48 Hours		48 Hours	A
4											
5											
6											

	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	TestAcceptability	Comments	ReferenceBatch													
2	A		mgcRT0814													
3	A		mgcRT0814													
4																
5																
6																

## TABLE STRUCTURE:

### tblToxicityBatchInformation

Field Name	Type	Required	Size	Description
ToxBatch	Text	Y	50	The batch code for the sample processing batch. <i>(CEDEN ToxBatch.ToxBatch)</i>
LabCode	Text	Y	20	The agency code from luList01_AgencyCodes of the processing laboratory. <i>(CEDEN ToxBatch.LabAgencyCode)</i>
Species	Text	Y	50	The species code from luList34_ToxicitySpecies. <i>(CEDEN ToxReplicateResults.OrganismName)</i>
Protocol	Text	Y	50	The test protocol from luList35_ToxicityProtocols. <i>(CEDEN ToxReplicateResults.MethodName)</i>
TestStartDate	Date/Time	Y		The starting date of the test expressed as dd/mmm/yyyy. <i>(CEDEN ToxBatch.StartDate)</i>
Matrix	Text	Y	50	The test matrix from luList36_ToxicityBatchMatrices. <i>(CEDEN ToxReplicateResults.MatrixName)</i>
ActualTestDuration	Decimal	Y		The duration of the test expressed in days or hours. <i>(CEDEN ToxReplicateResults.ToxPoint)</i>
ActualTestDurationUnits	Text	Y	15	From luList28_Units (Days or Hours). <i>(CEDEN captured in ToxPoint value)</i>
TargetTestDuration	Decimal	Y		The anticipated or projected duration of the test expressed in days. <i>(CEDEN ToxReplicateResults.ToxTestDurCode)</i>
TargetTestDurationUnits	Text	Y	15	From luList28_Units (Days or Hours). <i>(CEDEN captured in ToxTestDurCode value)</i>
TestAcceptability	Text	Y	50	Evaluation of the test results from luList39_ToxicityTestAcceptabilityCodes.

<i>(CEDEN ToBeDetermined)</i>				
Comments	Text	N	255	Additional remarks.  <i>(CEDEN ToxBatch.ToxBatchComments)</i>
ReferenceBatch				
ReferenceBatch	Text	Y	50	BatchID for the reference toxicant for the samples associated with each QABatch.

\*\*\*\*\*

### ***tblToxicityResults***

PURPOSE: The Toxicity Results table carries data relevant to sediment or water toxicity tests and their replicates. Each record represents the results of an individual replicate for an individual species processed in a batch of replicates.

#### TABLE GUIDELINES:

- Each record will be unique based on a combination of the fields StationID, SampleType, QABatch, LabCode, Species, Dilution, Concentration, EndPoint and LabRep.
- This file can be named at the discretion of the user; however the excel sheet tab must be named *tblToxicityResults* for submission to the Bight'13 online system.

#### SUBMISSION GUIDELINES:

- Toxicity Batch Information data must be submitted before Toxicity Results
- Each Toxicity Results record must have a corresponding Toxicity Batch Information record. Records are matched on QABatch and LabCode.
- Each Toxicity Batch Information record must have a corresponding Toxicity Result record. Records are matched on QABatch and LabCode.
- **Batch Matrix "BS" SampleType Audit** -- This procedure checks that a result record that has a corresponding toxicity batch record with a Matrix = "BS" has a SampleType of either "Result" or "CNEG"
- **Batch Matrix "RT" SampleType Audit** -- This procedure checks that a result record that has a corresponding toxicity batch record with a Matrix = "RT" has a SampleType of either "RFCD" or "RFNH3"
- 

#### EXAMPLE DATA:

## Bight '13 Information Management Plan

O1	SampleCollectDate	ToxBatch	Matrix	LabCode	Species	Dilution	Treatment	Concentration	ConcentrationUnits	EndPoint	LabRep	Result	ResultUnits
1 0000	14/AUG/2013	mgcRT0814	RT	LACSD	MG	-88	None	0 mg/l	NPA	1	97.189	PERCENT	
2 0000	14/AUG/2013	mgcRT0814	RT	LACSD	MG	-88	None	0 mg/l	NPA	2	90.763	PERCENT	
3 0000	14/AUG/2013	mgcRT0814	RT	LACSD	MG	-88	None	0 mg/l	NPA	3	80.321	PERCENT	
4 0000	14/AUG/2013	mgcRT0814	RT	LACSD	MG	-88	None	0 mg/l	NPA	4	89.558	PERCENT	
5 0000	14/AUG/2013	mgcRT0814	RT	LACSD	MG	-88	None	0 mg/l	NDA	5	86.245	PERCENT	
6 0000	14/AUG/2013	mgcRT0814	RT	LACSD	MG	-88	None	0 mg/l					

A1	StationID	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	EndPoint	LabRep	Result	ResultUnits	QACode	SampleTypeCode	FieldReplicate	Comments						
2	NPA		1	97.189 PERCENTAGE	A	RFNH3		1						
3	NPA		2	90.763 PERCENTAGE	A	RFNH3		1						
4	NPA		3	80.321 PERCENTAGE	A	RFNH3		1						
5	NPA		4	89.558 PERCENTAGE	A	RFNH3		1						
6	NPA		5	86.245 PERCENTAGE	A	RFNH3		1						

### TABLE STRUCTURE:

#### tblToxicityResults

Field Name	Type	Required	Size	Description
StationID	Text	Y	25	A geographic location label from the station table.  (CEDEN ToxReplicateResults.StationCode)
ToxBatch	Text	Y	50	Batch number for batch processed samples.  (CEDEN ToxReplicateResults.ToxBatch)
Matrix	Text	Y	50	The test matrix from luList27_ToxicityResultMatrices.  (CEDEN ToxReplicateResults.MatrixName)
LabCode	Text	Y	15	The analyzing agency code from luList01_AgencyCodes.  (not reported to CEDEN)
Species	Text	Y	50	Test species from luList34_ToxicitySpecies.  (CEDEN ToxReplicateResults.OrganismName)
Dilution	Decimal	Y		The dilution factor expressed as a proportion. Report as -88 for stations with no dilution factor. (For TIE results only)  (CEDEN ToxReplicateResults.DilutionFactor)
Treatment	Text	Y	255	Treatment performed on the sample. See luList48_ToxicityTreatments.  (CEDEN ToxReplicateResults.Treatment)

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<b>Concentration</b>	Decimal	Y		Concentration in mg/L. Report as -88 for stations with no concentration.  <i>(CEDEN ToxReplicateResults.Concentration)</i>
ConcentrationUnits	Text	Y	15	See luList48_ToxicityTreatments.  <i>(CEDEN ToxReplicateResults.UnitTreatment)</i>
EndPoint	Text	Y	50	The type of end point from luList37_ToxicityEndPoints. Survival, Percent Normal/Alive, or Growth. Note: In the case a single test has 2 endpoints, create 2 records with identical information except for differing EndPoint values and Results.  <i>(CEDEN ToxReplicateResults.EndPoint)</i>
<b>LabRep</b>	Integer	Y		The number of the replicate in which the measurement was taken.  <i>(CEDEN ToxReplicateResults.LabReplicate)</i>
Result	Decimal	Y		The numerical result of the test.  <i>(CEDEN ToxReplicateResults.Result)</i>
ResultUnits	Text	Y	15	See look-up list luList38_ToxicityWaterQualityConstituents.  <i>(CEDEN ToxReplicateResults.UnitName)</i>
QACode	Text	Y	50	The quality assurance code from luList39_ToxicityTestAcceptabilityCodes.  <i>(CEDEN ToxReplicateResults.ToxResultQACode)</i>
<b>SampleTypeCode</b>	Text	Y	20	See look-up list luList49_ToxicitySampleTypes.
FieldReplicate	Decimal	Y		Default of 1 except for split samples.  <i>(CEDEN ToxReplicateResults.Replicate)</i>
Comments	Text	N	255	Additional remarks relative to the Toxicity Results.  <i>(CEDEN ToxReplicateResults.ToxResultsComments)</i>

Additional CEDEN fields for the Toxicity Results table (to be added by SCCWRP).

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>

ProjectCode	Text	Y	25	References the project that is associated with the sample.  (CEDEN ToxReplicateResults.ProjectCode = "Bight2013")
CollectionMethodCode	Text	Y	50	Refers to the general method of collection such as Sed_Grab, Sed_Core, Water_Grab, Autosampler24h, and Autosampler7D. Default is "Sed_Grab".  (CEDEN ToxReplicateResults.CollectionMethodCode)
EventCode	Text	Y	20	Represents the primary reason, i.e. wat quality, tissue, or bioassessment sampling, of the sampling event at a particula station and date.  (CEDEN ToxReplicateResults.EventCode)
CollectionDeviceName	Text	Y	50	Unique name of the collection device.  (CEDEN ToxReplicateResults.CollectionDeviceName)
EventCode	Text	Y	20	Represents the primary reason, i.e. water quality, tissue or biaoassessment sampling, of the samling event at a particular station and date.  (CEDEN ToxReplicateResults.EventCode)
ToxPointMethod	Text	Y		<i>The general method used in obtaining or calculating the result.</i>  (CEDEN ToxReplicateResults.MethodName = "None")
WQSource	Text	Y		<i>Differentiates between WQ measurements taken in the overlying water or interstitial water. Default for this table is "None".</i>  (CEDEN ToxReplicateResults.WQSource = "None")

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### ***tblToxicityWQ***

**PURPOSE:** This table is used to document water quality during the course of a toxicity test. Each record represents a measurement of an individual water quality parameter at a specific time interval during the course of the test batch.

### TABLE GUIDELINES:

## Bight '13 Information Management Plan

- Each record will be unique based on a combination of the fields StationID, SampleType, QABatch, Matrix, Dilution, Concentration, TimePoint, Parameter, LabRep, and LabCode.
- This file can be named at the discretion of the user; however the excel sheet tab must be named tblToxicityWQ for submission to the Bight'13 online system.

### SUBMISSION GUIDELINES:

- Toxicity Batch Information data and Toxicity Results data must be submitted before the ToxicityWQ data.
- Each ToxicityWQ record must have a corresponding Toxicity Batch Information record. Records are matched on QABatch and LabCode.
- Each Toxicity Batch Information record must have a corresponding ToxicityWQ record. Records are matched on QABatch and LabCode.
- Each ToxicityWQ record must have a corresponding Toxicity Results record. Records are matched on QABatch and LabCode

### EXAMPLE DATA:

StationID	WQMatrix	Dilution	Treatment	Concentration	ConcentrationUnits	TimePoint	Parameter	Qualifier	Result	ResultUnits	LabRep	LabCode	SampleTypeCd
1 0000	RT	-88	None	0	mg/l	0 PH	None	7.7	pH	0	LACSD	RFNH3	
3 0000	RT	-88	None	2	mg/l	0 PH	None	7.8	pH	0	LACSD	RFNH3	
4 0000	RT	-88	None	4	mg/l	0 PH	None	7.8	pH	0	LACSD	RFNH3	
5 0000	RT	-88	None	6	mg/l	0 PH	None	7.8	pH	0	LACSD	RFNH3	
6 0000	RT	-88	None	8	mg/l	0 DH	None	7.8	nH	0	LACSD	RFNH3	

SampleTypeCode	Comments
RFNH3	

### TABLE STRUCTURE:

#### tblToxicityWQ

Field Name	Type	Required	Size	Description
StationID	Text	Y	25	A geographic location label from the station table. <i>(CEDEN ToxReplicateResults.StationCode)</i>
ToxBatch	Text	Y	50	The batch code for the sample processing batch. <i>(CEDEN ToxReplicateResults.ToxBatch)</i>

<b>Matrix</b>	Text	Y	50	The test matrix from luList27_ToxicityResultMatrices. <i>(CEDEN ToxReplicateResults.MatrixName)</i>
<b>Dilution</b>	Decimal	Y		The dilution factor expressed as a proportion. A sample with 80% original sample material and 20% blankwater has a dilution of 80. 80 would be the number reported. Default is 100. <i>(CEDEN ToxReplicateResults.Dilution)</i>
Treatment	Text	Y	255	Any treatment performed on the sample. Default = "None". See look-up list 48_ToxicityTreatments. <i>(CEDEN ToxReplicateResults.Treatment)</i>
<b>Concentration</b>	Decimal	Y		Concentration in mg/L. Report as -88 for stations with no concentration. See luList48_ToxicTreatments. <i>(CEDEN ToxReplicateResults.Concentration)</i>
ConcentrationUnits	Text	Y	15	Units in which the concentration was recorded in. See luList48_ToxicTreatments. <i>(CEDEN ToxReplicateResults.UnitTreatment)</i>
<b>TimePoint</b>	Decimal	Y		The number of days from the start of the test. TimePoints done before the start of the tests can be negative. <i>(CEDEN ToxReplicateResults.TimePoint)</i>
<b>Parameter</b>	Text	Y	50	The water quality parameter being measured from luList38_ToxicityWaterQualityConstituents. <i>(CEDEN ToxReplicateResults.AnalyteName)</i>
Qualifier	Text	N	10	Any necessary modifier for the numerical result. luList11_QualifierCodes. <i>(CEDEN ToxReplicateResults.ToxResultQACode)</i>
Result	Decimal	Y		The numerical result for the parameter. <i>(CEDEN ToxReplicateResults.Result)</i>
ResultUnits	Text	Y	15	See look-up list luList38_ToxicityWaterQualityConstituents. <i>(CEDEN ToxReplicateResults.UnitName)</i>
<b>LabRep</b>	Integer	Y		The number of the replicate in which the measurement was taken. Report "0" for surrogate chambers. <i>(CEDEN ToxReplicateResults.LabReplicate)</i>
<b>LabCode</b>	Text	Y	15	Analyzing agency from luList01_AgencyCodes.

<i>(CEDEN ToxReplicateResults.AgencyCode)</i>				
SampleTypeCode	Text	Y	20	See look-up list luList49_ToxicitySampleTypes.
Comments	Text	N	255	Additional remarks.
<i>(CEDEN ToxReplicateResults.ToxResultsComments)</i>				

Additional CEDEN Fields for toxicity results (to be added by SCCWRP).

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
ProjectCode	Text	Y	25	References the project that is associated with the sample.  <i>(CEDEN FieldResults.ProjectCode = "Bight2013")</i>
CollectionMethodCode	Text	Y	50	Default is "Sed_Grab".  <i>(CEDEN FieldResults.CollectionMethodCode)</i>
WQSource	Text	Y	50	Differentiates between WQ measurements taken in the overlyingwater or sediment.  <i>(CEDEN ToxReplicateResults.WQSource = "overlyingwater")</i>
ToxPointMethod	Text	Y	50	<i>(CEDEN ToxReplicateResults.ToxPointMethod = "ToxWQMeasurement")</i>
FieldReplicate	Decimal	Y		Default of 1 except for split samples.  <i>(CEDEN ToxReplicateResult.Replicate)</i>
EventCode	Text	Y	20	Represents the primary reason, i.e. water quality, tissue or biaoassessment sampling, of the samling event at a particular station and date.  <i>(CEDEN ToxicityResults.EventCode)</i>
CollectionDeviceName	Text	Y	50	Unique name of the collection device.  <i>(CEDEN ChemResults.CollectionDeviceName)</i>

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### **tblToxicitySummaryResults**

PURPOSE: This table is used to document the final determination of toxicity for each station. This table has been added to make the results easier to interpret by the final end users of the data set. SCCWRP will generate this table after all other toxicity data has been submitted.

#### TABLE GUIDELINES:

- This table is created after all of the toxicity data is submitted and is not required for submission to the IMO. Each record will be unique based on a combination of the fields StationID, Species, and LabCode.

#### EXAMPLE DATA:

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	StationID	LabCode	ToxBatch	Species	Dilution	Treatment	Concentration	ConcentrationUnits	EFCode	Units	StatisticalTest	Mean	N	StdDev	SigEffect	QACode	SampleTypeCode	TestDuration	TimePoint	AlphaValue	Probability	SQOCategory	Comment	FieldReplicate
2	Bight13_Station1	SCCWRP	ToxBatch1	MG	-99	Copper	20	mg/L	SP10	percent	Nottested	97.5	4	5	X	A	Grab	10 days	Final	.99	.99	NT	1	1
3	Bight13_Station2	SCCWRP	ToxBatch2	MG	-99	Copper	20	mg/L	SP10	percent	Nottested	97.5	4	5	X	A	Grab	10 days	Final	.99	.99	LT	1	1
4	Bight13_Station3	SCCWRP	ToxBatch3	MG	-99	Copper	20	mg/L	SP10	percent	Nottested	2.5	4	5	X	A	Grab	10 days	Final	.99	.99	NT	1	1
5	Bight13_Station4	SCCWRP	ToxBatch4	MG	-99	Copper	20	mg/L	SP10	percent	Nottested	3	4	8.16945	X	A	Grab	10 days	Final	.99	.99	NT	1	1
6	Bight13_Station5	SCCWRP	ToxBatch5	MG	-99	Copper	20	mg/L	SP10	percent	Nottested	50	4	14.14213	X	A	Grab	10 days	Final	.99	.99	NT	1	1
7	Bight13_Station6	SCCWRP	ToxBatch6	MG	-99	Copper	20	mg/L	SP10	percent	Nottested	64.5	4	9.57245	X	A	Grab	10 days	Final	.99	.99	NT	1	1
8	Bight13_Station7	SCCWRP	ToxBatch7	MG	-99	Copper	20	mg/L	SP10	percent	Nottested	70	4	8.16496	X	A	Grab	10 days	Final	.99	.99	NT	1	1

#### TABLE STRUCTURE:

### **tblToxicitySummaryResults**

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
StationID	Text	Y	25	A geographic location label from the station table.  (CEDEN ToxSummaryResults.StationCode)
LabCode	Text	Y	15	From luList01_AgencyCodes.  (CEDEN ToxSummaryResults.AgencyCode?)
ToxBatch	Text	Y	50	Identifier to match samples analyzed as a group.  (CEDEN ToxSummaryResults.ToxBatch)

<b>Species</b>	Text	Y	50	Code of species or type of biological system used for the toxicity test; refer to luList34.  (CEDEN ToxSummaryResults.OrganismName)
Dilution	Decimal	N		The dilution factor expressed as a proportion. A sample with 80% original sample material and 20% blankwater has a dilution of 80. 80 would be the number reported. Default is 100. When not required, complete with -88.  (CEDEN ToxSummaryResults.Dilution)
Treatment	Text	Y	255	Any treatment performed on the sample. Default = "None". See look-up list 49_ToxTreatments.  (CEDEN ToxSummaryResults.Treatment)
Concentration	Decimal	N		Concentration in mg/L. When not required, complete with -88. See luList48_ToxicityTreatments.  (CEDEN ToxReplicateResults.Concentration)
ConcentrationUnits	Text	Y	15	See luList48_ToxicityTreatments.  (CEDEN ToxReplicateResults.UnitTreatment)
EPCode	Text	Y	10	The type of endpoint for the test. Refer to luList37_ToxicityEndPointConstituents. Note: In the case a single test has 2 endpoints, create 2 records with identical information except for differing EndPoint values and Results.  (CEDEN ToxSummaryResults.AnalyteName)
Units	Text	Y	15	Units for the type of endpoint for the test. Refer to luList37_ToxicityEndPointConstituents.  (CEDEN ToxSummaryResults.UnitName)
StatisticalTest	Text	Y	50	The statistical method used to determine toxicity. See look-up list lu48_ToxicityStatisticalMethods.  (CEDEN ToxSummaryResults.StatisticalMethod)
Mean	Decimal	Y		The mean value for the test and sample generated from the lab replicates in tblCoreToxicityResults  (CEDEN ToxSummaryResults.Mean)
N	Integer	Y		The number of replicates used to calculate mean and standard deviation from the lab replicates in

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tblCoreToxicityResults <i>(CEDEN ToxSummaryResults.RepCount)</i>				
StdDev	Decimal	Y	The standard deviation for the test and sample generated from the lab replicates in tblToxicityResults.	
			<i>(CEDEN ToxSummaryResults.StdDev)</i>	
PctControl	Decimal	Y	The mean expressed as a percentage of the mean for the control (i.e., mean of the lab replicates divided by the mean for the control and multiplied by 100)	
			<i>(CEDEN ToxSummaryResults.PercentControl)</i>	
SigEffect	Text	Y	5	Statistically significant effect based on control response. From luList41_ControlResponses
				<i>(CEDEN ToxSummaryResults.SigEffecdt)</i>
QACode	Text	Y	10	The quality assurance code for the analysis. Refer to luList39.
				<i>(CEDEN ToxSummaryResults.TestQACode)</i>
SampleTypeCode	Text	Y	20	See look-up list luList49_ToxicitySampleTypes.
TestDuration	Integer	Y	Length of the test in days or hours	
TimePoint	Interger	Y	The point in time during the test expressed in days	
AlphaValue	Decimal	Y	The statistical alpha value for the test	
Probability	Decimal	Y	The statistical significane P value for the test.	
SQOCategory	Text	Y	See lulist21_ToxSQOCategories.	
Comment	Text	N	255	Note comments on statistical test used if known (e.g. ANOVA, t-test, etc.)
FieldReplicate	Decimal	Y	Default of 1 except for split samples.	

Additional CEDEN fields for Toxicity Summary Results table (to be added by SCCWRP).

Field Name	Type	Required	Size	Description
ProjectCode	Text	Y	25	References the project that is associated with the sample.  <i>(CEDEN FieldResults.ProjectCode = "Bight2013")</i>

CollectionMethodCode	Text	Y	50	Refers to the general method of collection such as Sed_Grab, Sed_Core, Water_Grab, Autosampler24h, and Autosampler7D. Default is "Sed_Grab". Default is "Sed_Grab".  <i>(CEDEN FieldResults.CollectionMethodCode)</i>
WQSource	Text	Y	50	Differentiates between WQ measurements taken in the overlying water as well as in the sediment or interstitial water.
ToxPointMethod	Text	Y	50	General method used to calculate or obtain the result.  <i>(CEDEN ToxReplicateResults.ToxPointMethod = "ToxWQMeasurement")</i>
EventCode	Text	Y	20	Represents the primary reason, i.e. water quality, tissue or bioassessment sampling, of the sampling event at a particular station and date.  <i>(CEDEN ToxicityReplicateResults.EventCode = "WQ")</i>

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### ***tblTrawlAssemblageEvent***

CEDEN NOTE: At this time, no data submission templates exist within CEDEN for trawl collected data. SCCWRP will work with CEDEN to develop these data submission templates in the near future.

PURPOSE: The purpose of the trawl data table is to document the track of all trawls conducted during the course of the project and the type of samples collected for each trawl. Each record represents a record of an individual trawl track.

There are four positions recorded during a trawl; net over, net on the bottom, end of trawl, and net on deck. The latitude, longitude, and time are recorded for all of the positions in terms of decimal degrees. The first and last positions are recorded for Quality Assurance purposes.

#### TABLE GUIDELINES:

- The combination of StationID, SampleDate, SamplingOrganization, and TrawlNumber ensure that each record in the table will be unique.
- This file can be named at the discretion of the user; however the excel sheet tab must be named *tblTrawlAssemblageEvent* for submission to the Bight'13 online system.

#### SUBMISSION GUIDELINES:

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- Station Occupation data must be submitted before the Trawl Assemblage Event data.
- Each Trawl Assemblage Event record must have a corresponding Station Occupation record.
- Records are matched on StationID, SampleDate, and Sampling Organization.

### EXAMPLE DATA:

	A	B	C	D	E	F	G	H	I	J	K	L	M	
1	StationID	SampleDate	SamplingOrganization	GearCode	TrawlNumber	Datum	Overtime	OverLatitude	OverLongitude	StartTime	StartLatitude	StartLongitude	StartDepth	Depth
2	B13-8001	13/Jul/2013	SCCWRP	TRL		1 NAD83	10:00:15	33.1	-118.1	10:05:56	33.2	-118.2	30	M
3	B13-8002	13/Jul/2013	SCCWRP	TRL		1 NAD83	10:00:15	33.1	-118.1	10:05:57	33.2	-118.2	30	M
4	B13-8003	13/Jul/2013	SCCWRP	TRL		1 NAD83	10:00:15	33.1	-118.1	10:05:58	33.2	-118.2	30	M
5	B13-8004	13/Jul/2013	SCCWRP	TRL		1 NAD83	10:00:15	33.1	-118.1	10:05:59	33.2	-118.2	30	M

	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	DepthUnits	WireOut	EndTime	EndLatitude	EndLongitude	EndDepth	DeckTime	DeckLatitude	DeckLongitude	TrawlFailCode	PTSensor	PTSensorManufacturer	PTSensorSerialNu
2	M		45 10:15:33	33.3	-118.3	29	10:25:22	33.4	-118.4	T1	Yes	Lotek	A12345
3	M		46 10:15:34	33.3	-118.3	29	10:25:23	33.4	-118.4	T2	Yes	Lotek	A12346
4	M		47 10:15:35	33.3	-118.3	29	10:25:24	33.4	-118.4	T3	Yes	Lotek	A12347
5	M		48 10:15:36	33.3	-118.3	29	10:25:25	33.4	-118.4	T4	Yes	Lotek	A12348

	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	DepthUnits	WireOut	EndTime	EndLatitude	EndLongitude	EndDepth	DeckTime	DeckLatitude	DeckLongitude	TrawlFailCode	PTSensor	PTSensorManufacturer	PTSensorSerialNu
2	M		45 10:15:33	33.3	-118.3	29	10:25:22	33.4	-118.4	T1	Yes	Lotek	A12345
3	M		46 10:15:34	33.3	-118.3	29	10:25:23	33.4	-118.4	T2	Yes	Lotek	A12346
4	M		47 10:15:35	33.3	-118.3	29	10:25:24	33.4	-118.4	T3	Yes	Lotek	A12347
5	M		48 10:15:36	33.3	-118.3	29	10:25:25	33.4	-118.4	T4	Yes	Lotek	A12348

### TABLE STRUCTURE:

#### tblTrawlAssemblageEvent

Field Name	Type	Required	Size	Description
StationID	Text	Y	25	A geographic location label from the station table.  (CEDEN Stations.StationCode)

<b>SampleDate</b>	Date/Time	Y		The date the sample was collected expressed as dd/mmm/yyyy.  <i>(CEDEN Locations.SampleDate)</i>
<b>SamplingOrganization</b>	Text	Y	15	An agency code assigned from CEDEN for each organization. See look-up list luList01_AgencyCodes.  <i>(CEDEN Location.AgencyCode)</i>
GearCode	Text	Y	25	From luList03_EquipmentCodes.  <i>(CEDEN AllResults.CollectionDeviceName = "OtterTrawl" &amp; device name)</i>
<b>TrawlNumber</b>	Integer	Y		The sequential number of the trawl at the station. Default = 1.  <i>(CEDEN Location.LocationCode = "OpenwaterTrawl" &amp; the number)</i>
Datum	Text	Y	10	The datum on which the latitudes and longitudes are based. Default = "NAD83". See look-up list luList52_Datum.  <i>(CEDEN Location.Datum)</i>
OverTime	Date/Time	Y		The time the net was deployed expressed as 24-hour time (hh:mm:ss).  <i>(CEDEN FieldResults.CollectionTime)</i>
OverLatitude	Decimal	Y		Degrees of latitude expressed in decimal degrees to <u>5</u> places.  <i>(CEDEN Location.ActualLatitude)</i>
OverLongitude	Decimal	Y		Degrees of longitude expressed in decimal degrees to <u>5</u> places and a negative number.  <i>(CEDEN Location.ActualLongitude)</i>

StartTime	Date/Time	Y	The time the net started fishing expressed as 24-hour time (hh:mm:ss).  <i>(CEDEN FieldResults.CollectionTime)</i>
StartLatitude	Decimal	Y	Degrees of latitude expressed in decimal degrees to <u>5</u> places.  <i>(CEDEN Location.ActualLatitude)</i>
StartLongitude	Decimal	Y	Degrees of longitude expressed in decimal degrees to <u>5</u> places andas a negative number.  <i>(CEDEN Location.ActualLongitude)</i>
StartDepth	Decimal	Y	The depth at the start of trawl.  <i>(CEDEN FieldResults.CollectionDepth)</i>
DepthUnits	Text	Y	15 Units for all depths and wire out. From list28 Units.  <i>(CEDEN FieldResults.UnitCollectionDepth)</i>
WireOut	Integer	Y	The length of wire out expressed in meters.  <i>(CEDEN LocationDetails.WireOut)</i>
EndTime	Date/Time	Y	The time the net finish fishing expressed as 24-hour time (hh:mm:ss).  <i>(CEDEN FieldResults.CollectionTime)</i>
EndLatitude	Decimal	Y	Degrees of latitude expressed in decimal degrees to <u>5</u> places.  <i>(CEDEN Location.ActualLatitude)</i>
EndLongitude	Decimal	Y	Degrees of longitude expressed in decimal degrees to <u>5</u> places andas a negative number.  <i>(CEDEN Location.ActualLongitude)</i>

EndDepth	Number	Y	The depth at the end of the trawl in meters.  <i>(CEDEN FieldResults.CollectionDepth)</i>
DeckTime	Date/Time	Y	The time the net is recovered and on deck expressed as 24-hour (hh:mm:ss).  <i>(CEDEN FieldResults.CollectionTime)</i>
DeckLatitude	Decimal	Y	Degrees of latitude expressed in decimal degrees to <u>5</u> places.  <i>(CEDEN Location.ActualLatitude)</i>
DeckLongitude	Decimal	Y	Degrees of longitude expressed in decimal degrees to <u>5</u> places and a negative number.  <i>(CEDEN Location.ActualLongitude)</i>
TrawlFailCode	Text	Y	Use to report any trawl fails. Default = "None". From look-up list luList51_EventFailCodes.  <i>(Will not be reported to CEDEN)</i>
PTSensor	Yes/No	Y	Is there Pressure Temperature data associated with this trawl? Default = "Yes". <i>(CEDEN AllResults.CollectionDeviceName = "OtterTrawl" &amp; tag type)</i>
PTSensorManufacturer	Text	50	Manufacturer of the pressure temperature sensor. Required if a pressure temperature device was used.  <i>(Will not be reported to CEDEN)</i>
PTSensorSerialNumber	Text	50	Tag number listed on PT sensor or generated by user. Required if Pressure temperature device was used.  <i>(Will not be reported to CEDEN)</i>

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OnBottomTemp	Decimal	Y	Temperature from the PT sensor. See look-up list luList60_PTSensorConstituentCodes.  <i>(CEDEN FieldResult.AnalyteName = "Temperature")</i>
OnBottomTime	Date/Time	Y	Time from PT sensor.  <i>(CEDEN FieldResult.CollectionTime)</i>
Comments	Text	*	Additional comments relative to the trawl. A comment is required for some trawl failure codes.  <i>(CEDEN AllResults.FieldCollectionComments)</i>

Additional CEDEN fields for the Trawl Assemblage table (to be added by SCCWRP).

<b>Field Name</b>	<b>Type</b>	<b>R equired</b>	<b>Size</b>	<b>Description</b>
ProtocolCode	Text	Y	50	Represents the sampling protocol used, which includes the set of methods, methodology and/or specifications. Established protocols may be used or Regions may document their own sampling protocols.  <i>(CEDEN FieldResults.ProtocolCode = "Bight2013 Trawl Protocol")</i>
CollectionMethodCode	Text	Y	50	Default is "Trawl".  <i>(CEDEN FieldResults.CollectionMethodCode)</i>
LocationCode	Text	D	50	Describes the physical location in the waterbody where the sample was collected. One sampling event may have a single or multiple locations.  <i>(CEDEN Locations.LocationCode)</i>

\*\*\*\*\*

### **tblPTSensorResults**

This data is generated by a device affixed to the doors of the trawl. The device produces a comma separated value ASCII file that will have supplemental data added to it to comply with the table structure described here.

**PURPOSE:** This table is used to record Pressure and Temperature (PT) information specific to each trawl. Each record represents specific information collected at a certain time and depth. This is QA/QC data needed to document actual time a trawl net spends on the bottom of the ocean.

#### TABLE GUIDELINES:

- Each record will be unique based on a combination of the fields StationID, SamplingOrganization, TrawlNumber, SampleDate, and Time.
- This file can be named at the discretion of the user; however the excel sheet tab must be named **tblPTSensor** for submission to the Bight 13 online system.

#### SUBMISSION GUIDELINES

- Station Occupation and Trawl Assemblage Event data must be submitted before the Pressure Temperature data.
- Each Archive Data Tag record must have a corresponding Trawl Assemblage Event record.
- Records are matched on StationID, SampleDate, SamplingOrganization, and Trawl Number

#### EXAMPLE DATA:

	StationID	SamplingOrganization	TrawlNumber	SampleDate	SensorTime	Temperature	TemperatureUnit	SensorDepth	SensorDepthUnit	SensorCategory	BoatCategory	Comments
1												
2	Bight13_Station1	SCCWWRP	1	7/15/2013	8:00	19.6	C	0.824	m	s	DB	
3	Bight13_Station2	SCCWWRP	1	7/16/2013	8:15	19.2	C	1.062	m	s	DB	
4	Bight13_Station3	SCCWWRP	1	7/17/2013	8:30	19.1	C	1.163	m	s	DB	
5	Bight13_Station4	SCCWWRP	1	7/18/2013	8:45	19.1	C	1.441	m	s	DB	
6	Bight13_Station5	SCCWWRP	1	7/19/2013	8:50	19.1	C	1.67	m	s	DB	
7	Bight13_Station6	SCCWWRP	1	7/20/2013	9:00	19	C	1.935	m	s	DR	

#### TABLE STRUCTURE:

### **tblPTSensorResults**

Field Name	Type	Required	Size	Description

StationID	Text	Y	25	A geographic location label from tblStations.  <i>(CEDEN AllThree.StationCode)</i>
SamplingOrganization	Text	Y	15	An agency code assigned from CEDEN for each organization. See look-up list luList01_AgencyCodes.  <i>(CEDEN Locations.AgencyCode)</i>
TrawlNumber	Integer	Y		The sequential number of the trawl. The field may contain a one if there are no replicates.  <i>(CEDEN Location.LocationCode)</i>
SampleDate	Date/Time	Y		The date recorded by the instrument/sensor expressed as dd/mmm/yyyy.  <i>(CEDEN AllResults.SampleDate)</i>
SensorTime	Date/Time	Y		The time recorded by the instrument/sensor expressed as hh:mm:ss (include seconds).  <i>(CEDEN FieldResults.CollectionTime)</i>
Temperature	Number	Y		Temperature from the instrument or PT sensor. See look-up list luList60_PTSensorConstituentCodes.  <i>(CEDEN FieldResult.AnalyteName = "Temperature")</i>
TemperatureUnit	Text	Y	15	Units the temperature was recorded in. See look-up list luList60_PTSensorConstituentCodes.  <i>(CEDEN FieldResult.UnitName)</i>
SensorDepth	Decimal	Y		The pressure/depth recorded by the instrument/sensor.  <i>(CEDEN FieldResults.CollectionDepth)</i>
SensorDepthUnit	Text	Y	15	Units the depth was recorded in. From luList28_Units.

				(CEDEN FieldResults.UnitCollectionDepth)
SensorCategory	Text	Y	2	Categorization of the net's travel based on sensor pressure readings. From luList45_PTSensorCategory.
				(CEDEN HabitatResults.AnalyteName = "?")
BoatCategory	Text	Y	2	Categorization by the boat/fieldcrew of the net's travel. From luList46_PTSensorBoatCategories.
				(CEDEN HabitatResults.AnalyteName = "?")
Comments	Text	N	255	Additional comments.

### ***tblTrawlDebris***

PURPOSE: The purpose of the trawl debris table is to document the type and amount of debris encountered during each trawl.

#### TABLE GUIDELINES:

- The combination of StationID, SampleDate, TrawlNumber, SamplingOrganization and DebrisType ensures that each record in the table will be unique.
- This file can be named at the discretion of the user; however the excel sheet tab must be named *tblTrawlDebris* for submission to the BIGHT'13 online system.

#### SUBMISSION GUIDELINES:

- Station Occupation and Trawl Assemblage Event data must be submitted before the Trawl Debris data.
- Each Trawl Debris record must have a corresponding Trawl Assemblage Event record.
- Each Trawl Assemblage Event record must have must have a corresponding Trawl Debris record.
- Records are matched on StationID, SampleDate, Sampling Organization, and Trawl Number.

#### EXAMPLE DATA:

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tblTrawlDebris_Good.xls [Compatibility Mode] - Microsoft Excel														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	StationID	SampleDate	TrawlNumber	SamplingOrganization	DebrisType	DebrisCount	EstimateCategory	Comments						
2	B13-8002	27/Jul/2013		1 LACSD	Bag		2 Plastic	Test record please delete						
3	B13-8008	27/Jul/2013		1 LACSD	Cup		1 Plastic	Test record please delete						
4														
5														
6														

### TABLE STRUCTURE:

#### tblTrawlDebris

Field Name	Type	Required	Size	Description
StationID	Text	Y	25	A geographic location label from the station table.  (CEDEN TrawlDebris.StationCode)
SampleDate	Date/Time	Y		The date the sample was collected expressed as dd/mmm/yyyy.  (CEDEN TrawlDebris.CollectionDate)
TrawlNumber	Integer	Y		The number of the trawl from which the sample was collected.  (CEDEN TrawlDebris.FieldReplicate)
SamplingOrganization	Text	Y	15	From luList01_AgencyCodes  (CEDEN TrawlDebris.AgencyCode)
DebrisType	Text	Y	25	Debris type from luList19_TrawlDebrisType. Comment required if DebrisType starts with the word "Other".  (CEDEN TrawlDebris.AnalyteName)
DebrisCount	Decimal	Y*		Number of debris items. Recorded -99 if EstimateCategory is used.  (CEDEN TrawlDebris.Result)
EstimateCategory	Text	Y*	10	Use when exact count cannot be determined.

			(For natural debris only). Record -99 if DebrisCount is used. See lulist13_DebrisCountEstCategories.
(CEDEN TrawlDebris.VariableResult)			
Comments	Text	255	Additional remarks. Required if DebrisType starts with the word "Other".
(CEDEN TrawlDebris.Comments)			

Additional CEDEN fields for the Trawl Debris table (to be added by SCCWRP).

Field Name	Type	Required	Size	Description
ProjectCode	Text	Y	25	References the project that is associated with the sample.
(CEDEN FieldResults.ProjectCode = "Bight2013")				

\*\*\*\*\*

### ***tblTrawlFishAbundance***

PURPOSE: The purpose of the trawl fish abundance table is to document the number of individuals of each species within a size class from a successful trawl. Gross pathology of these fish will be checked and recorded as anomalies. Each record represents the number of fish in a particular size class of a particular species and a particular anomaly state.

Each fish is measured individually and examined for anomalies. In the event that anomalies are found in combination, use the codes for anomaly combinations from luList 22\_TrawlFishAnomalyCodes.

In this survey, when the fish abundance exceeds 250 individuals, the agency may opt to not size class all of the fish, but must size class the first 250 individuals; in that event, the abundance record for the remaining fish will contain -99 in the sizeclass field, a qualifier of A and an anomaly code of NE for None Examined.

#### TABLE GUIDELINES:

- The combination of the fields StationID, SampleDate, SamplingOrganization, TrawlNumber, Species, SizeClass, and Anomaly will ensure that each record is unique in the table.
- This file can be named at the discretion of the user; however the excel sheet tab must be named *tblTrawlFishAbundance* for submission to the Bight'13 online system.

#### SUBMISSION GUIDELINES:

- Station Occupation and Trawl Assemblage Event data must be submitted before the Trawl Fish Abundance data.
- Each Trawl Fish Abundance record must have a corresponding Trawl Assemblage Event record.
- Each Trawl Assemblage Event record must have must have a corresponding Trawl Fish Abundance record.
- Records are matched on StationID, SampleDate, Sampling Organization, and Trawl Number.

**EXAMPLE DATA:** Although the Trawl Fish Abundance table is simple in structure, the actual application is sometimes confusing, and so an example is included to clarify the use of this table. In this example the collected species was *Chitonotus pugetensis*. There were ten fish total in size class 10, two of which has a lesion. This circumstances would yield 2 records—one to show the amount without lesions (Abundance = 8), and another indicating how many had lesions (Abundance = 2). There were 9 fish in size class 11, all with no anomalies.

	A	B	C	D	E	F	G	H	I	J	K
1	StationID	SampleID	SampleDate	SamplingOrganization	TrawlNumber	Species	SizeClass	AbundanceQ	Abundance	AnomalyCode	Comments
2	B13-8001	SampleD1	07/Jul/2013	AES	1	Entosphenus folletti	11 <		8 L		lesions near mouth
3	B13-8001	SampleD2	08/Aug/2013	LACSD	922	Entosphenus folletti	13 NA		1 NE		None
4											
5											
6											

#### TABLE STRUCTURE:

##### **tblTrawlFishAbundance**

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
<b>StationID</b>	Text	Y	25	A geographic location label from the station table.  (CEDEN toBeDetermined)
<b>SampleID</b>	Text	N	10	The laboratory internal sample identifier.  (CEDEN toBeDetermined)
<b>SampleDate</b>	Date/Time	Y		The date the sample was taken expressed as dd/mmm/yyyy. (CEDEN.toBeDetermined)
<b>SamplingOrganization</b>	Text	Y	15	From luList01_AgencyCodes.  (CEDEN toBeDetermined)

<b>TrawlNumber</b>	Integer	Y		The sequential number of the trawl taken at the station.  <i>(CEDEN.Locations.LocationCode = "Trawl" &amp; number)</i>
<b>Species</b>	Text	Y	50	The species being measured from luList09_SpeciesList (AFS 6 <sup>th</sup> edition).  <i>(CEDEN.toBeDetermined)</i>
<b>SizeClass</b>	Integer	Y		The size class,(standard length, total length, or wing width as required by field manual,) into which the fish falls expressed in cm.  <i>(CEDEN.toBeDetermined)</i>
AbundanceQualifier	Text	N	4	Any necessary qualifier from luList11_QualifierCodes.  <i>(CEDEN.toBeDetermined)</i>
<b>Abundance</b>	Integer	Y		The number of fish in the size class.  <i>(CEDEN.toBeDetermined)</i>
<b>Anomaly</b>	Text	Y	20	Any present anomaly or combination of anomalies from luList22_TrawlFishAnomalies. Default = "None".  <i>(CEDEN.toBeDetermined)</i>
<b>Comments</b>	Text	N	255	Additional remarks. Include body location of anomalies. Conditionally required for the following anomalies: skeletal, tumor, and lesion.  <i>(CEDEN.toBeDetermined)</i>

Additional CEDEN fields for Trawl Fish Abundance (to be added by SCCWRP).

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
ProjectCode	Text	Y	25	References the project that is associated with the sample.

<p style="text-align: right;"><i>(CEDEN FieldResults.ProjectCode = "Bight2013")</i></p>				
CollectionMethodCode	Text	Y	50	Default is “Otter Trawl”.
<p style="text-align: right;"><i>(CEDEN FieldResults.CollectionMethodCode)</i></p>				

\*\*\*\*\*

### ***tblTrawlFishBiomass***

**PURPOSE:** The purpose of this table is to document the collective weight of each fish species in all size classes collected in the trawl used for assemblage.

The biomass will be recorded to a single decimal place. The “units” field default value is kg and is carried to document the units used in this survey for historical purposes. If a species group weighs less than 0.1 kg it will be recorded as < 0.1 kg and be retained and weighed with other species groups that fall into this weight category. A single record will be entered with the species name “CompositeWt” for each station that had at least two species groups weighing less than 0.1 kg. This is essential for computing a total biomass of fish for the trawl.

#### **SPECIAL CASE:**

If the aliquot method is used for fish abundance, some individual fish may be size classed. In that event, the biomass of the size classed fish will be recorded separately from the biomass of the aliquot fish. There by generating two distinct records in the table. A qualifier of A will indicate which weight is the aliquot record.

#### **TABLE GUIDELINES:**

- The combination of the fields StationID, SampleDate, SamplingOrganization, TrawlNumber, BiomassQualifier, and Species will ensure that each record is unique in the table.
- This file can be named at the discretion of the user; however the excel sheet tab must be named *tblTrawlFishBiomass* for submission to the Bight'13 online system.

#### **SUBMISSION GUIDELINES:**

- Station Occupation and Trawl Assemblage Event data must be submitted before the Trawl Fish Biomass data.
- Each Trawl Fish Biomass record must have a corresponding Trawl Assemblage Event record.
- Each Trawl Assemblage Event record must have must have a corresponding Trawl Fish Biomass record.
- Records are matched on StationID, SampleDate, Sampling Organization, and Trawl Number.

**EXAMPLE DATA:**

	A	B	C	D	E	F	G	H	I	J	K
1	StationID	SampleID	SamplingOrg	SampleDate	TrawlNumber	Species	BiomassQual	Biomass	BiomassUnits	Comments	
2	B13-8001	Sample33	AES	13/Jul/2013	1	Entosphenus folletti	NA		4 KG		
3	B13-8001	Sample66	LACSD	01/Jan/2013	2	Entosphenus folletti	<		5 KG		
4											
5											

**TABLE STRUCTURE:**

**tblTrawlFishBiomass**

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
StationID	Text	Y	25	A geographic location label from tblStations.  (CEDEN ToBeDetermined)
SampleID	Text	N	10	The laboratory internal sample identifier.  (CEDEN ToBeDetermined)
SampleDate	Date/Time	Y		The date the sample was collected expressed as dd/mmm/yyyy.  (CEDEN ToBeDetermined)
SamplingOrganization	Text	Y	15	From luList01_AgencyCodes.  (CEDEN ToBeDetermined)
TrawlNumber	Integer	Y		The sequential number of the trawl at that station.  (CEDEN ToBeDetermined)
Species	Text	Y	50	The species measured from luList09_SpeciesList. (Based on AFS 6 <sup>th</sup> edition).  (CEDEN ToBeDetermined)
BiomassQualifier	Text	*	4	Any necessary qualifier from luList11_QualifierCodes. This field is

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				required if the aliquot method was used for size class.
				(CEDEN ToBeDetermined)
Biomass	Decimal	Y		The weight of the collected members of the species in kg.
				(CEDEN ToBeDetermined)
BiomassUnits	Text	Y	15	The units used for the weight, normally KG, from LuList28_Units.
				(CEDEN ToBeDetermined)
Comments	Text	N	255	Additional comments.
				(CEDEN ToBeDetermined)

Additional CEDEN fields for Trawl Fish Biomass (to be added by SCCWRP).

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
ProjectCode	Text	Y	25	References the project that is associated with the sample.  (CEDEN FieldResults.ProjectCode = "Bight2013")
CollectionMethodCode	Text	Y	50	Default is "Otter Trawl".  (CEDEN FieldResults.CollectionMethodCode)

\*\*\*\*\*

### ***tblTrawlInvertebrateAbundance***

PURPOSE: The trawl invertebrate abundance table is used to document the numerical abundance of megabenthic invertebrates collected in trawls used for assemblage characterization. Each record represents the abundance and occurrence of anomalies in an individual species.

The qualifier field may carry an “A” indicating that the abundance was estimated by aliquot. In the case of certain species like urchins, where very large numbers of individuals may be encountered, a number (100 or 200 for example) may be weighed and the total haul number estimated from the total weight.

#### TABLE GUIDELINES:

- The combination of the fields StationID, SampleDate, SamplingOrganization, TrawlNumber, Species, and Anomaly will ensure that each record is unique in the table.
- This file can be named at the discretion of the user; however the excel sheet tab must be named **tblTrawlInvertebrateAbundance** for submission to the Bight'13 online system.

#### SUBMISSION GUIDELINES:

- Station Occupation and Trawl Assemblage Event data must be submitted before the Trawl Invertebrate Abundance data.
- Each Trawl Invertebrate Abundance record must have a corresponding Trawl Assemblage Event record.
- Each Trawl Assemblage Event record must have must have a corresponding Trawl Invertebrate Abundance record.
- Records are matched on StationID, SampleDate, Sampling Organization, and Trawl Number.

#### EXAMPLE DATA:

A	B	C	D	E	F	G	H	I	J	K
StationID	SampleID	SamplingOrganization	SampleDate	TrawlNumber	Species	AbundanceQualifier	Abundance	Anomaly		Comments
1 B13-8001	SampleD8	AES	21/Jul/2013	1	Terebellides californica	<		11	None	
2										
3										
4										

#### TABLE STRUCTURE:

##### **tblTrawlInvertebrateAbundance**

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
<b>StationID</b>	Text	Y	25	A geographic location label from <b>tblStations</b> .  (CEDEN ToBeDetermined)
<b>SampleID</b>	Text	N	10	The laboratory internal sample identifier. (CEDEN.toBeDetermined)
<b>SampleDate</b>	Date/Time	Y		The date the sample was collected expressed as dd/mmm/yyyy.

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<i>(CEDEN ToBeDetermined)</i>				
<b>SamplingOrganization</b>	Text	Y	15	From IuList01_AgencyCodes.
<i>(CEDEN ToBeDetermined)</i>				
<b>TrawlNumber</b>	Integer	Y		The sequential number of the trawl taken at that station.
<i>(CEDEN ToBeDetermined)</i>				
<b>Species</b>	Text	Y	50	Scientific names of collected invertebrates from IuList09_SpeciesList. (SCAMIT 8 <sup>th</sup> edition)
<i>(CEDEN ToBeDetermined)</i>				
<b>AbundanceQualifier</b>	Text	N	4	A qualifier from IuList11_QualifierCodes.
<i>(CEDEN ToBeDetermined)</i>				
<b>Abundance</b>	Integer	Y		Number of individuals of the species.
<i>(CEDEN ToBeDetermined)</i>				
<b>Anomaly</b>	Text	Y	30	Anomaly from IuList23_InvertebrateAnomalyCodes recorded as None if no anomaly. Default = "None".
<i>(CEDEN ToBeDetermined)</i>				
<b>Comments</b>	Text	N	255	Additional remarks.
<i>(CEDEN ToBeDetermined)</i>				

Additional CEDEN fields for Trawl Invertebrate Abundance (to be added by SCCWRP).

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
ProjectCode	Text	Y	25	References the project that is associated with the sample.  <i>(CEDEN FieldResults.ProjectCode = "Bight2013")</i>

CollectionMethodCode	Text	Y	50	Default is “Otter Trawl”.
<i>(CEDEN FieldResults.CollectionMethodCode)</i>				

\*\*\*\*\*

### ***tblTrawlInvertebrateBiomass***

**PURPOSE:** The purpose of the trawl invertebrate biomass table is to record the collective biomass of each megabenthic invertebrate species collected at a trawl station. Each record represents the collective biomass of an individual species expressed in kilograms.

As with the fish biomass, the biomass of megabenthic invertebrates will be recorded to a single decimal place. The “units” field default value is kg and is carried to document the units used in this survey for historical purposes. If a species group weighs less than 0.1 kg it will be recorded as < 0.1 kg and be retained and weighed with other species groups that fall into this weight category. A single record will be entered with the species name “CompositeWt” for each station that had at least two species groups weighing less than 0.1 kg. This is essential for computing a total biomass of megabenthic invertebrates for the trawl.

### **SPECIAL CASE:**

If the estimate method is used for some invertebrate abundance, the biomass of the counted invertebrates will be recorded separately from the biomass of the non-counted fish. There by generating two distinct records in the table. A qualifier of A will indicate which weight is the aliquot record.

### **TABLE GUIDELINES:**

- The combination of the fields StationID, SampleDate, SamplingOrganization, TrawlNumber, and Species will ensure that each record is unique in the table.
- This file can be named at the discretion of the user; however the excel sheet tab must be named *tblTrawlInvertebrateBiomass* for submission to the Bight'13 online system.

### **SUBMISSION GUIDELINES:**

- Station Occupation and Trawl Assemblage Event data must be submitted before the Trawl Invertebrate Biomass data.
- Each Trawl Invertebrate Biomass record must have a corresponding Trawl Assemblage Event record.

- Each Trawl Assemblage Event record must have a corresponding Trawl Invertebrate Biomass record.
- Records are matched on StationID, SampleDate, Sampling Organization, and Trawl Number.

**EXAMPLE DATA:**

A	B	C	D	E	F	G	H	I	J	K	L
1	StationID	SampleID	SamplingOrganization	SampleDate	TrawlNumber	Species	BiomassQualifier	Biomass	BiomassUnits	Comments	
2	B13-8001	Sample99	LACSD	08/Aug/2013	1	Terebellides	NA		9 KG		
3											
4											

**TABLE STRUCTURE:**

**tblTrawlInvertebrateBiomass**

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
StationID	Text	Y	25	A geographic location label from tblStations.  (CEDEN ToBeDetermined)
SampleID	Text	N	10	The laboratory internal sample identifier.  (CEDEN ToBeDetermined)
SampleDate	Date/Time	Y		The date the sample was collected expressed as dd/mmm/yyyy.  (CEDEN ToBeDetermined)
SamplingOrganization	Text	Y	15	From luList01_AgencyCodes.  (CEDEN ToBeDetermined)
TrawlNumber	Integer	Y		The sequential number of the trawl at that station from which assemblage data was collected expressed as dd/mmm/yyyy.  (CEDEN ToBeDetermined)
Species	Text	Y	50	The species being measured from luList09_SpeciesList. (SCAMIT edition 8)

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				(CEDEN ToBeDetermined)
BiomassQualifier	Text	N	4	Any necessary qualifier code from IuList11_QualifierCodes. Default = "None".
				(CEDEN ToBeDetermined)
Biomass	Decimal	Y		The weight of the collected individual species expressed in KG to 2 decimal places.
				(CEDEN ToBeDetermined)
BiomassUnits	Text	Y	15	Default = "KG". See IuList28_Units.
				(CEDEN ToBeDetermined)
Comments	Text	N	255	Additional comments.
				(CEDEN ToBeDetermined)

Additional CEDEN fields for Trawl Invertebrate Biomass (to be added by SCCWRP).

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
ProjectCode	Text	Y	25	References the project that is associated with the sample.  (CEDEN FieldResults.ProjectCode = "Bight2013")
CollectionMethodCode	Text	Y	50	Default is "Otter Trawl".  (CEDEN FieldResults.CollectionMethodCode)

### C. WATER QUALITY

\*\*\*\*\*

### **tblWaterQualityCastEvent**

**PURPOSE:** The cast event table documents all relevant information about each cast. The attributes of the event are described including the geographic position to ensure that each event met all of the sampling guidelines. Each successful event will generate a record containing data used to describe the characteristics of the area surveyed in terms of the latitude, longitude, date, time and the associated cast number.

#### TABLE GUIDELINES:

- The combination of the fields StationID, SampleDate, SamplingOrganization, and CastNumber ensure unique values for each record in the table.
- This file can be named at the discretion of the user; however the excel sheet tab must be named **tblWaterQualityCastEvent** for submission to the Bight'13 online system.

#### EXAMPLE DATA:

StationID	SampleDate	CastNumber	CastTime	SamplingOrganization	CastLatitude	CastLongitude	Datum	StationWaterDepth	StationWaterDepthUnits	CTDMethod	EquipmentCode	Comments
2 Bight13_Station1	8/2/2013	1	8:00	SCCWRP	33.1141	-117.133	NAD83	14.2	m	real time	SBE25	
3 Bight13_Station2	8/3/2013	1	8:15	SCCWRP	33.14141	-117.3335	NAD84	14.2	m	real time	SBE26	
4 Bight13_Station3	8/4/2013	2	8:45	SCCWRP	33.12356	-117.354	NAD85	29.9	m	real time	SBE27	
5 Bight13_Station4	8/5/2013	1	7:55	SCCWRP	33.1106	-117.13174	NAD86	65.5	m	real time	SBE28	
6 Bight13_Station5	8/6/2013	2	10:30	SCCWRP	33.10689	-117.3526	NAD87	112.2	m	real time	SBE29	

#### TABLE STRUCTURE:

### **tblWaterQualityCastEvent**

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
StationID	Text	Y	25	A geographic location label from the station table.  (CEDEN Location.StationCode)
SampleDate	Date/Time	Y		The date the sample was collected. Format dd/mmm/yyyy.  (CEDEN Location.SampleDate)
CastNumber	Integer	Y		Sequential number of each cast at a

				single station.
				(CEDEN FieldResults.Replicate)
CastTime	Date/Time	Y		The time stamp recorded from the data file at the end of cast expressed as 24-hour time (hh:mm:ss).  (CEDEN FieldResults.CollectionTime)
SamplingOrganization	Text	Y	15	An agency code assigned from CEDEN for each organization. See look-up list luList01_AgencyCodes.  (CEDEN Locations.AgencyCode)
CastLatitude	Decimal	Y		Degrees of latitude expressed in decimal degrees to <u>5</u> decimal places.  (CEDEN Location.ActualLatitude)
CastLongitude	Decimal	Y		Degrees of longitude expressed in decimal degrees to <u>5</u> decimal places and as a <u>negative number</u> .  (CEDEN Location.ActualLongitude)
Datum	Text	Y	10	The datum on which the latitude and longitude are based. Default = "NAD83". See look-up list luList52_Datum.  (CEDEN Location.Datum)
StationWaterDepth	Decimal	Y		The recorded station depth at time of cast. See look-up list luList53_StationWaterDepthConstituent Codes.  (CEDEN HabitatResults.Analyte = "StationWaterDepth")
StationWaterDepthUnits	Text	Y	15	Default = "m" for meters. See look-up list luList53_StationWaterDepthConstituent Codes.

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				(CEDEN HabitatResults.UnitName)
CTDMethod	Text	Y	25	The data capture method. From luList02_CTDMethods.
				(CEDEN FieldResults.CollectionMethod)
EquipmentCode	Text	Y	25	CTD Type (include agencycode & serial number). From luList03_EquipmentCodes.
				(CEDEN FieldResults.CollectionDeviceName)
Comments	Text	N	255	Additional remarks relative to the cast event.
				(CEDEN FieldResults.FieldCollectionComments)

Additional CEDEN fields for the Water Quality Cast event table (to be added by SCCWRP).

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
ProjectCode	Text	Y	25	References the project that is associated with the sample.  (CEDEN FieldResults.ProjectCode = "Bight13")
CollectionMethodCode	Text	Y	50	Refers to the general method of collection such as Sed_Grab, Sed_Core, Water_Grab, Autosampler24h, and Autosampler7d.  (CEDEN FieldResults.CollectionMethodCode)
CoordinateNumber	Integer	Y		Number of coordinates recorded at a location; e.g. 1 for points (target and actual coordinates), 1 and 2 for lines, etc.  (CEDEN Locations.CoordinateNumber)

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LocationCode	Text	D	50	Describes the physical location in the waterbody where the sample was collected. One sampling event may have a single or multiple locations.  <i>(CEDEN Locations.LocationCode)</i>
ProtocolCode	Text	D	50	Represents the sampling protocol used, which includes the set of methods, methodology and/or specifications, such as MPSL-DFG_Field_v1.0. Established protocols may be used or Regions may document their own sampling protocols.  <i>(CEDEN FieldResults.ProtocolCode)</i>

### ***tblDiscreteWaterSamples***

PURPOSE: The DiscreteWaterSamples table is designed to capture information about the depth at which discrete water samples are collected. These records are related to the Water Quality Cast event table above and may have multiple records associated with each cast.

#### TABLE GUIDELINES:

- The combination of the fields StationID, SampleDate, SamplingOrganization, CastNumber, and DiscreteSampleDepth ensure unique values for each record in the table.
- This file can be named at the discretion of the user; however the excel sheet tab must be named **tblDiscreteWaterEvent** for submission to the Bight'13 online system.

#### EXAMPLE DATA:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	StationID	SampleDate	CastNumber	SampleTime	SamplingOrganization	DiscreteSampleDepth	DiscreteSampleDepthUnits	EquipmentCode	Nutrients	Bacteria	Phytoplankton	Chlorophyll	CDOM	Comments				
2	Bight13_Station1	8/2/2013	1	8:00	SCCWRP	60	m	SBE25	Yes	Yes	Yes	No	No					
3	Bight13_Station2	8/3/2013	1	8:15	SCCWRP	25	m	SBE26	Yes	No	No	Yes	No					
4	Bight13_Station3	8/4/2013	2	8:45	SCCWRP	245	m	SBE27	No	No	Yes	Yes	Yes					
5	Bight13_Station4	8/5/2013	1	7:55	SCCWRP	56	m	SBE28	No	Yes	No	Yes	Yes					

#### TABLE STRUCTURE:

## tblDiscreteWaterSamples

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
StationID	Text	Y	25	A geographic location label from the station table.  <i>(CEDEN Location.StationCode)</i>
SampleDate	Date/Time	Y		The date the sample was collected. Format dd/mmm/yyyy.  <i>(CEDEN Location.SampleDate)</i>
CastNumber	Integer	Y		Sequential number of each cast at a single station.  <i>(CEDEN Locations.LocationCode = "OpenWaterGrab" &amp; the number)</i>
SampleTime	Date/Time	Y		The time the sample was collected expressed as 24-hour time (hh:mm:ss).  <i>(CEDEN ChemResults.CollectionTime)</i>
SamplingOrganization	Text	Y	15	An agency code assigned from CEDEN for each organization. See look-up list lulist01_AgencyCodes.  <i>(CEDEN Locations.AgencyCode)</i>
DiscreteSampleDepth	Decimal	Y		The recorded station depth at time of cast.  <i>(CEDEN ChemResults.CollectionDepth)</i>
DiscreteSampleDepthUnits	Text	Y	15	Default = "M" for meters. From lulist28_Units.  <i>(CEDEN FieldResults.UnitCollectionDepth)</i>
EquipmentCode	Text	Y	25	From lulist03_EquipmentCodes.

				(CEDEN <i>ChemResults.CollectionDeviceName</i> )
Nutrients	Yes/No	Y	1	Was this grab used for Nutrients analysis?  (CEDEN <i>SampleHistory.SamplePurposeCode = "WaterChem"</i> )
Bacteria	Yes/No	Y	1	Was this grab used for testing Bacteria?  (CEDEN <i>SampleHistory.SamplePurposeCode = "WaterChem"</i> )
Phytoplankton	Yes/No	Y	1	Was this grab used for Phytoplankton?  (CEDEN <i>SampleHistory.SamplePurposeCode = "WaterChem"</i> )
Chlorophyll	Yes/No	Y	1	Was this grab used for testing Chlorophyll?  (CEDEN <i>SampleHistory.SamplePurposeCode = "WaterChem"</i> )
CDOM	Yes/No	Y	1	Was this grab used for Color Dissolved Organic Matter?  (CEDEN <i>SampleHistory.SamplePurposeCode = "WaterChem"</i> )
Comments	Text	N	255	Additional remarks relative to the cast event.  (CEDEN <i>FieldResults.FieldCollectionComments</i> )

### **tblBinAveragedCastData**

**PURPOSE:** The Bin average cast table it to record CTD cast data normalized to one meter bin depths. This file is produced from the instrument in the field and will be supplemented with additional information in the laboratory.

#### TABLE GUIDELINES:

- The combination of the fields StationID, SampleDate, SampleTime SamplingOrganization, SampleDepth, and CastNumber ensure unique values for each record in the table.
- This file can be named at the discretion of the user; however the excel sheet tab must be named **tblBinAveragedCast** for submission to the Bight'13 online system.

#### EXAMPLE DATA:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	StationID	SampleDate	SampleTime	SamplingOrganization	SampleDepth	CastNumber	Temperature	Salinity	Density	pH	Transmissivity	BeamC	DissolvedOxygen	OxygenSaturation	PercentOxygenSaturation	Chlorophyll	CDOM	Comments	
2	Bight13_Station1	8/2/2013	6:45	SCCWWRP	25	1	19	25.233	1025.23	8.3	1	10	9.83	13	95	0.382559	15		
3	Bight13_Station2	8/3/2013	7:15	SCCWWRP	65	1	18	25.63	1023.66	8.5	2	9	10.24	14	90	0.45436	23		
4	Bight13_Station3	8/4/2013	7:24	SCCWWRP	50	2	19	27.526	1023.756	7	3	8	9.75	15	96	0.30573	6		
5	Bight13_Station4	8/5/2013	8:15	SCCWWRP	95	1	19	27.522	1025.056	8.5	4	7	9.14	16	74	0.0553225	7		

#### TABLE STRUCTURE:

### **tblBinAverageCastData**

<b>Field Name</b>	<b>Type</b>	<b>Required</b>	<b>Size</b>	<b>Description</b>
StationID	Text	Y	25	A geographic location label from the station table.
SampleDate	Date/Time	Y		Date from the instrument
SampleTime	Date/Time	Y		Time from the instrument
SamplingOrganization	Text	Y	20	Agency Code from luAgencyCodes
SampleDepth	Integer	Y		Depth sample was taken in meters.
CastNumber	Integer	Y		A discrete sequential number for each cast at

			that station on that day.
Temperature	Double	Y	Deg C
Salinity	Double	Y	Psu
Density	Double	Y	Mg/m3
pH	Double	Y	pH units
Transmissivity	Double	Y	%
BeamC	Double	Y	1/m
DissolvedOxygen	Double	Y	Mg/L
OxygenSaturation	Double	Y	Mg/L
PercentOxygenSaturation	Double	Y	%
Chlorophyll	Double	Y	ug/L
CDOM	Double	Y	Ug/L
Comments	Text	N	255

## Appendix 1. Look-up Lists

### *IuList01\_AgencyCodes*

AgencyCode	AgencyDescription
AES	AES Corporation
ABC	Aquatic Bioassay and Consulting Laboratories
CSUCI	California State University at Channel Islands
CINMS	Channel Islands National Marine Sanctuary
CUPC	Chevron USA Products Company
CLB	City of Long Beach
CLAEMD	City of Los Angeles Environmental Monitoring Division
OC	City of Oceanside
OX	City of Oxnard
CSD	City of San Diego

<b>AgencyCode</b>	<b>AgencyDescription</b>
VT	City of Ventura
PHYSIS	Physis
EW	Encina Waste Water Authority
GTCN	Granite Canyon Marine Pollution Studies Lab
HI	Houston Industries Inc.
UABC	Instituto de Investigacione, Oceanologicas
JPL	Jet Propulsion Laboratory
LACDBH	Los Angeles County Department of Beaches and Harbors
LACDHS	Los Angeles County Dept. of Health Services
LACRWQCB	Los Angeles County Regional Water Quality Control Board
LACSD	Los Angeles County Sanitation Districts
LADWP	Los Angeles Department of Water and Power
LMU	Loyola Marymount University
MBC	Marine Biological Consulting
MCB	Marine Corps Base – Camp Pendleton
MMS	Minerals Management Service
NPS	National Park Service
NES	NES Energy Inc.
NRG	NRG Energy Inc.
OCEHD	Orange County Environmental Health Division
OCPFRD	Orange County Public Facilities and Resources
OCSD	Orange County Sanitation Districts
POLA	Port of Los Angeles
POSD	Port of San Diego
RC	Reliant Corporation
SDCDEH	San Diego County Department of Environmental Health
SDRWQCB	San Diego Regional Water Quality Control Board
SEJPA	San Elijo Joint Powers Authority*
SARWQCB	Santa Ana Regional Water Quality Control Board
SBHCS	Santa Barbara Health Care Services
SMBRC	Santa Monica Bay Restoration Commission
SMBRP	Santa Monica Bay Restoration Project
SV	Sea Ventures
SCCWRP	Southern California Coastal Water Research Project
SCWRP	Southern California Wetland Recovery Project

<b>AgencyCode</b>	<b>AgencyDescription</b>
SOCWA	Southern Orange County Water Authority
SWRCB	State Water Resources Control Board
TENERR	Tijuana Estuary National Estuarine Research Reserve
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
UCLA	University of California at Los Angeles
UCSB	University of California, Santa Barbara
URS	URS Corporation
VRG	Vantuna Research Group
WS	Weston Solutions
NE	Nautilus Environmental
NWAS	Northwest Aquatic Sciences
CALSCIENCE	Calscience
WECK	WECK

*luList02\_CTDMethodCodes*

<b>Method</b>	<b>Description</b>
RAM	Data recorded in RAM of device
REAL TIME	Data recorded on a computer

*luList03\_EquipmentCodes*

<b>EquipmentCode</b>	<b>EquipmentType</b>
TRL	Otter Trawl w. 7.62 meter head rope
TVV	Tandem van Veen 0.1 m <sup>2</sup>
VV	Van Veen Grab
SBE19	Water Quality Analyzer SeaBird SBE/19
SBE25	Water Quality Analyzer SeaBird SBE/25
SBE911	Water Quality Analyzer Seabird SBE/911
RigFishing	Fishing by hook and line
NR	Not recorded

*luList04\_SampleTypes*

<b>SampleType</b>	<b>SampleTypeDescription</b>	<b>AssociatedTable</b>
CARP	Certified Carp Samples	Chemistry
CRM-016	RTC Metals in Sediment	Chemistry
CRM-540	Metals in Soil	Chemistry

SampleType	SampleTypeDescription	AssociatedTable
DORM	Dog Fish Muscle Tissue	Chemistry
FEB	Field Equipment Blank	Chemistry
LCM	Laboratory Control Material	Chemistry
LCS	Laboratory Control Standard	Chemistry
MB	Method Blank	Chemistry
MS1	Matrix spike – must have the same LabSampleID as MSD	Chemistry
SRM-1944	NIST Sample Organics in Marine Sediment	Chemistry
RESULT	Numerical Result of analysis	Chemistry/Toxicity/Microbiology
GRAB	A 0.1 m <sup>2</sup> van Veen Grab	StationOccupation
TRAWL	A 7.62 meter Marinovich trawl	StationOccupation
WQ	Water Quality	StationOccupation
CNEG	Laboratory Negative Control	Toxicity
LB	Laboratory Blank	Toxicity
RFCD	Cadmium Reference Control	Toxicity
RFCU	Copper reference control	Toxicity
RFSDS	Reference Sodium dodecal sulphate	Toxicity
RFNH3	Ammonia Reference Toxicant	Toxicity
RFPH	Phenol Reference control	Biomarker
EDTA	Ethylenediaminetetraacetic acid	Toxicity –TIE
C-18	C-18 column extraction	Toxicity –TIE
CEE	Carboxylesterase enzyme	Toxicity –TIE
BSA	Bovine serum albumin	Toxicity –TIE
TR	Temperature reduction	Toxicity –TIE
PBO	Piperonyl butoxide	Toxicity –TIE
SIR	SIR 300 resin beads	Toxicity –TIE
CC	Coconut charcoal	Toxicity –TIE
QA	Quality Assurance value	Toxicity

#### IuList05\_WindDirectionConstituentCodes

VariableResult	Matrix	Method	Analyte	Fraction	Unit
E	Habitat	FieldObservations	WindDirection	None	None
N	Habitat	FieldObservations	WindDirection	None	None
NE	Habitat	FieldObservations	WindDirection	None	None
NR	Habitat	FieldObservations	WindDirection	None	None
NW	Habitat	FieldObservations	WindDirection	None	None

<b>VariableResult</b>	<b>Matrix</b>	<b>Method</b>	<b>Analyte</b>	<b>Fraction</b>	<b>Unit</b>
S	Habitat	FieldObservations	WindDirection	None	None
SE	Habitat	FieldObservations	WindDirection	None	None
SW	Habitat	FieldObservations	WindDirection	None	None
W	Habitat	FieldObservations	WindDirection	None	None
XX	Habitat	FieldObservations	WindDirection	None	None

***IuList06\_SedimentCompositionConstituentCodes***

<b>VariableResult</b>	<b>Description</b>	<b>Matrix</b>	<b>Method</b>	<b>Analyte</b>	<b>Fraction</b>	<b>Unit</b>
Cobble	Tennis ball size rocks or bigger (can be flat).	Sediment	FieldObservations	Composition	None	None
Coarse Gravel	Marble size to near tennis ball size (can be flat).	Sediment	FieldObservations	Composition	None	None
Fine Gravel	2mm to marble size.	Sediment	FieldObservations	Composition	None	None
Coarse Sand	Texture mostly larger grained sand particles.	Sediment	FieldObservations	Composition	None	None
Fine Sand	Texture mostly smaller grained sand with some fine.	Sediment	FieldObservations	Composition	None	None
Silt/Clay	Fine particles (texture smooth).	Sediment	FieldObservations	Composition	None	None
Shell Hash	Mostly shell hash (50% or greater).	Sediment	FieldObservations	Composition	None	None
Mixed	Any combination of above – requires comment.	Sediment	FieldObservations	Composition	None	None
NR	Not Recorded	Sediment	FieldObservations	Composition	None	None

***IuList07\_OdorConstituentCodes***

<b>VariableResult</b>	<b>Description</b>	<b>Matrix</b>	<b>Method</b>	<b>Analyte</b>	<b>Fraction</b>	<b>Unit</b>
Humic	Decay	Sediment	FieldObservations	Odor	None	None
Hydrogen Sulfide	Sulfur	Sediment	FieldObservations	Odor	None	None
None	No Detectable Odor	Sediment	FieldObservations	Odor	None	None
NR	Not Recorded	Sediment	FieldObservations	Odor	None	None
Other	(requires a comment)	Sediment	FieldObservations	Odor	None	None

VariableResult	Description	Matrix	Method	Analyte	Fraction	Unit
Petroleum	Oil and grease	Sediment	FieldObservations	Odor	None	None

#### *IuList08\_WeatherConstituentCodes*

VariableResult	Matrix	Method	Analyte	Fraction	Unit
Clear	Habitat	FieldObservations	SkyCode	None	None
Drizzle	Habitat	FieldObservations	SkyCode	None	None
Fog	Habitat	FieldObservations	SkyCode	None	None
Fog and Drizzle	Habitat	FieldObservations	SkyCode	None	None
Hazey	Habitat	FieldObservations	SkyCode	None	None
NR	Habitat	FieldObservations	SkyCode	None	None
Overcast	Habitat	FieldObservations	SkyCode	None	None
Partly Cloudy	Habitat	FieldObservations	SkyCode	None	None
Rain	Habitat	FieldObservations	SkyCode	None	None
Thunderstorm	Habitat	FieldObservations	SkyCode	None	None
Smoky	Habitat	FieldObservations	SkyCode	None	None

#### *IuList09\_SpeciesList*

See SCAMIT edition 8 and AFS 6<sup>th</sup> edition

#### *IuList10\_TissueTypes*

TissueType
NR
Whole Body

#### *IuList11\_QualifierCodes*

Qualifier	Description	AssociatedTable
<	less than	
<=	less than or equal to	
>	greater than	
>=	greater than or equal to	
A	Count base on calculation of Aliquot	TrawlInvertebrateAbundance
AE	Analyst Error	

Qualifier	Description	AssociatedTable
BMDL	Below Method Detection Limit	Chemistry
BRL	Below Reporting Level	Chemistry
C	Colonial (not for use with infauna)	
CT	Contaminated	
E	Estimated	
I	Interference	
None	None	
NA	Not Analyzed	
ND	Not Detected	
NS	Not Sampled	
P	Present, not counted	
R	Rare species	
S	Specialty taxonomy lot	
X	Exotic species	
NM	Not Measured	

***luList12\_SizeDescriptors***

SizeDescriptor
Carapace length
Carapace width
Fork length
Maximum dimension
Not recorded
Standard length
Standard length size class
Test diameter
Total length
Wing width

***luList13\_NaturalDebrisCountEstCategories***

Code	Description
L	Low: 2-10 items
M	Moderate: 11-100 items
H	High: >100 items
NR	Not Used

**IuList14\_TestMatrices**

MatrixCode	MatrixDescription	AssociatedTable
EX	Extract	Chemistry
FRESHWATER	Fresh water	Chemistry
SEAWATER	Sea Water	Chemistry / Discrete Water
SEDIMENT	Sediment	Chemistry
TISSUE	Fish Tissue	Chemistry
LABWATER	Water used for Blanks (i.e. Distilled Water)	Chemistry

**IuList15\_ParameterCodes**

Parameter	ParameterCategory	AssociatedTable
%Lipids	Tissue Only	Chemistry
%Moisture	Tissue Only	Chemistry
%Solids		Chemistry
1,6,7-Trimethylnaphthalene	PAH	Chemistry
1-Methylnaphthalene	PAH	Chemistry
1-Methylphenanthrene	PAH	Chemistry
2,4'-DDD	Chlorinated Hydrocarbons	Chemistry
2,4'-DDE	Chlorinated Hydrocarbons	Chemistry
2,4'-DDT	Chlorinated Hydrocarbons	Chemistry
2,6-Dimethylnaphthalene	PAH	Chemistry
2-Methylnaphthalene	PAH	Chemistry
4,4'-DDD	Chlorinated Hydrocarbons	Chemistry
4,4'-DDE	Chlorinated Hydrocarbons	Chemistry
4,4'-DDMU	Chlorinated Hydrocarbons	Chemistry
4,4'-DDT	Chlorinated Hydrocarbons	Chemistry
Acenaphthene	PAH	Chemistry
Acenaphthylene	PAH	Chemistry
Aldrin		Chemistry
Aluminum	Metals	Chemistry
Anthracene	PAH	Chemistry
Antimony	Metals	Chemistry
Arsenic		Chemistry
Barium	Metals	Chemistry
BDE017	PBDE	Chemistry
BDE028	PBDE	Chemistry
BDE047	PBDE	Chemistry

Parameter	ParameterCategory	AssociatedTable
BDE099	PBDE	Chemistry
BDE100	PBDE	Chemistry
BDE138	PBDE	Chemistry
BDE153	PBDE	Chemistry
BDE154	PBDE	Chemistry
BDE183	PBDE	Chemistry
BDE190	PBDE	Chemistry
BDE209	PBDE	Chemistry
Benz(a)anthracene	PAH	Chemistry
Benzo(a)pyrene	PAH	Chemistry
Benzo(b)fluoranthene	PAH	Chemistry
Benzo(e)pyrene	PAH	Chemistry
Benzo(g,h,i)perylene	PAH	Chemistry
Benzo(k)fluoranthene	PAH	Chemistry
Beryllium	Metals	Chemistry
BHC-alpha		Chemistry
BHC-beta		Chemistry
BHC-delta		Chemistry
BHC-gamma		Chemistry
Bifenthrin	Pyrethroid	Chemistry
Biphenyl	PAH	Chemistry
Cadmium	Metals	Chemistry
Chromium	Metals	Chemistry
Chrysene	PAH	Chemistry
cis-chlordane	Chlorinated Hydrocarbons	Chemistry
cis-Permethrin	Pyrethroid	Chemistry
Cobalt		Chemistry
Copper	Metals	Chemistry
Cyfluthrin	Pyrethroid	Chemistry
Cypermethrin	Pyrethroid	Chemistry
Dacthal		Chemistry
Deltamethrin	Pyrethroid	Chemistry
Dibenz(a,h)anthracene	PAH	Chemistry
Dibenzothiophene		Chemistry
Dieldrin	Chlorinated Hydrocarbons	Chemistry
Endosulfan I		Chemistry
Endosulfan II		Chemistry
Endosulfan sulfate		Chemistry
Endrin		Chemistry
Endrin Aldehyde		Chemistry

Parameter	ParameterCategory	AssociatedTable
Endrin Ketone		Chemistry
Esfenvalerate	Pyrethroid	Chemistry
Fenpropathrin	Pyrethroid	Chemistry
Fluoranthene	PAH	Chemistry
Fluorene	PAH	Chemistry
Gravel2m	Grain Size	Chemistry
Heptachlor		Chemistry
Heptachlor epoxide		Chemistry
Indeno(1,2,3-c,d) pyrene	PAH	Chemistry
Iron	Metals	Chemistry
Kurtosis	Grain Size	Chemistry
Lambda-Cyhalothrin	Pyrethroid	Chemistry
Lead	Metals	Chemistry
Manganese		Chemistry
Mean	Grain Size	Chemistry
Median	Grain Size	Chemistry
Mercury	Metals	Chemistry
MetalsArsenic	Metals	Chemistry
Methoxychlor		Chemistry
Mirex		Chemistry
Mode	Grain Size	Chemistry
Naphthalene	PAH	Chemistry
Naphthalene-d8(Surrogate)		Chemistry
Nickel	Metals	Chemistry
Nonachlor, cis		Chemistry
Nonachlor, trans		Chemistry
Oxychlordane		Chemistry
Oxyfluorfen		Chemistry
Parathion, Ethyl		Chemistry
Parathion, Methyl		Chemistry
PCB 030(Surrogate)		Chemistry
PCB 112 (Surrogate)		Chemistry
PCB 198 (Surrogate)		Chemistry
PCB003		Chemistry
PCB018	PCB	Chemistry
PCB028	PCB	Chemistry
PCB031		Chemistry
PCB033		Chemistry
PCB037	PCB	Chemistry
PCB044	PCB	Chemistry

Parameter	ParameterCategory	AssociatedTable
PCB049	PCB	Chemistry
PCB052	PCB	Chemistry
PCB056/060		Chemistry
PCB066	PCB	Chemistry
PCB070	PCB	Chemistry
PCB074	PCB	Chemistry
PCB077	PCB	Chemistry
PCB081	PCB	Chemistry
PCB087	PCB	Chemistry
PCB095		Chemistry
PCB097		Chemistry
PCB099	PCB	Chemistry
PCB101	PCB	Chemistry
PCB105	PCB	Chemistry
PCB110	PCB	Chemistry
PCB114	PCB	Chemistry
PCB118	PCB	Chemistry
PCB119	PCB	Chemistry
PCB123	PCB	Chemistry
PCB126	PCB	Chemistry
PCB128	PCB	Chemistry
PCB128/167		Chemistry
PCB138	PCB	Chemistry
PCB149	PCB	Chemistry
PCB151	PCB	Chemistry
PCB153	PCB	Chemistry
PCB156	PCB	Chemistry
PCB157	PCB	Chemistry
PCB158	PCB	Chemistry
PCB167	PCB	Chemistry
PCB168	PCB	Chemistry
PCB168/132		Chemistry
PCB169	PCB	Chemistry
PCB170	PCB	Chemistry
PCB177	PCB	Chemistry
PCB180	PCB	Chemistry
PCB183	PCB	Chemistry
PCB187	PCB	Chemistry
PCB189	PCB	Chemistry
PCB194	PCB	Chemistry

Parameter	ParameterCategory	AssociatedTable
PCB195		Chemistry
PCB200		Chemistry
PCB201	PCB	Chemistry
PCB203		Chemistry
PCB206	PCB	Chemistry
PCB209		Chemistry
Percent Fines	Grain Size	Chemistry
Perthane		Chemistry
Perylene	PAH	Chemistry
Perylene-d12(Surrogate)		Chemistry
Phenanthrene	PAH	Chemistry
Phenanthrene-d10(Surrogate)		Chemistry
Phi-0.5	Grain Size	Chemistry
Phi00.0	Grain Size	Chemistry
Phi00.5	Grain Size	Chemistry
Phi01.0	Grain Size	Chemistry
Phi01.5	Grain Size	Chemistry
Phi02.0	Grain Size	Chemistry
Phi02.5	Grain Size	Chemistry
Phi03.0	Grain Size	Chemistry
Phi03.5	Grain Size	Chemistry
Phi04.0	Grain Size	Chemistry
Phi04.5	Grain Size	Chemistry
Phi05.0	Grain Size	Chemistry
Phi05.5	Grain Size	Chemistry
Phi06.0	Grain Size	Chemistry
Phi06.5	Grain Size	Chemistry
Phi07.0	Grain Size	Chemistry
Phi07.5	Grain Size	Chemistry
Phi08.0	Grain Size	Chemistry
Phi08.5	Grain Size	Chemistry
Phi09.0	Grain Size	Chemistry
Phi09.5	Grain Size	Chemistry
Phi-1.0	Grain Size	Chemistry
Phi10.0	Grain Size	Chemistry
Phi10.5	Grain Size	Chemistry
Phi11.0	Grain Size	Chemistry
Phi11.5	Grain Size	Chemistry
Phi12.0	Grain Size	Chemistry
Pyrene	PAH	Chemistry

Parameter	ParameterCategory	AssociatedTable
Selenium	Metals	Chemistry
Silver	Metals	Chemistry
Skewness	Grain Size	Chemistry
Strontium		Chemistry
Thallium		Chemistry
Tin		Chemistry
Titanium		Chemistry
TN	Total Nitrogen\Inorganic	Chemistry
TOC	Total Organic Carbon	Chemistry
TP	Total Phosphorus	Chemistry
trans-chlordane	Chlorinated Hydrocarbons	Chemistry
trans-Permethrin	Pyrethroid	Chemistry
Vanadium		Chemistry
Zinc	Metals	Chemistry
E. Coli	Bacteria	Microbiology
Enterococcus	Bacteria	Microbiology
Fecal Coliforms	Bacteria	Microbiology
Total Coliforms	Bacteria	Microbiology
Ammonium	Inorganic	Toxicity
Dissolved Oxygen	Oxygen	Toxicity
Hydrogen Sulfide	Inorganic	Toxicity
pH	pH	Toxicity
Salinity	Inorganic	Toxicity
Total Ammonia	Inorganic	Toxicity
Total Sulfides	Inorganic	Toxicity
Unionized Ammonia	Inorganic	Toxicity

#### IuList16\_SeaStatesConstituentCodes

VariableCodes	Matrix	Method	Analyte	Fraction	Unit
Calm	Habitat	FieldObservation	SeaState	None	None
Choppy	Habitat	FieldObservation	SeaState	None	None
Confused	Habitat	FieldObservation	SeaState	None	None
NR	Habitat	FieldObservation	SeaState	None	None

Rough	Habitat	FieldObservation	SeaState	None	None
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**IuList17\_ChemistryConstituentCodes**

MatrixName	MethodName	AnalyteName	FractionName	UnitName
blankmatrix	EPA 8270	Acenaphthene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Acenaphthene	Total	ng/g dw
blankmatrix	GCMS	Acenaphthene	Total	ng/g dw
blankwater	EPA 625	Acenaphthene	Total	ug/L
blankwater	EPA 625M	Acenaphthene	Total	ug/L
blankwater	EPA 8270	Acenaphthene	Total	ug/Kg dw
blankwater	EPA 8270Cm	Acenaphthene	Total	ug/L
blankwater	GCMS	Acenaphthene	Total	ug/Kg dw
runoff	EPA 625	Acenaphthene	Total	ug/L
runoff	EPA 625M	Acenaphthene	Total	ug/L
runoff	EPA 8270Cm	Acenaphthene	Total	ug/L
sediment	EPA 8270	Acenaphthene	Total	%
sediment	EPA 8270	Acenaphthene	Total	ng/g dw
sediment	EPA 8270	Acenaphthene	Total	ug/Kg dw
sediment	EPA 8270C	Acenaphthene	Total	ng/g dw
sediment	EPA 8270C	Acenaphthene	Total	ng/g ww
sediment	EPA 8270C	Acenaphthene	Total	ug/Kg dw
sediment	EPA 8270Cm	Acenaphthene	Total	ug/Kg dw
sediment	EPA 8270M	Acenaphthene	Total	ng/g dw
sediment	GCMS	Acenaphthene	Total	ng/g dw
sediment	GCMS	Acenaphthene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Acenaphthene-d10(Surrogate)	Total	% Recovery
sediment	EPA 8270C	Acenaphthene-d10(Surrogate)	Total	ng/g dw
sediment	EPA 8270C	Acenaphthene-d10(Surrogate)	Total	ng/g ww
sediment	EPA 8270Cm	Acenaphthene-d10(Surrogate)	Total	ug/Kg dw
sediment	EPA 8270M	Acenaphthene-	Total	% Recovery

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		d10(Surrogate)		
sediment	GCMS	Acenaphthene-d10(Surrogate)	Total	ng/g dw
blankmatrix	EPA 8270	Acenaphthylene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Acenaphthylene	Total	ng/g dw
blankmatrix	GCMS	Acenaphthylene	Total	ng/g dw
blankwater	EPA 625	Acenaphthylene	Total	ug/L
blankwater	EPA 625M	Acenaphthylene	Total	ug/L
blankwater	EPA 8270	Acenaphthylene	Total	ug/Kg dw
blankwater	EPA 8270Cm	Acenaphthylene	Total	ug/L
blankwater	GCMS	Acenaphthylene	Total	ug/Kg dw
runoff	EPA 625	Acenaphthylene	Total	ug/L
runoff	EPA 625M	Acenaphthylene	Total	ug/L
runoff	EPA 8270Cm	Acenaphthylene	Total	ug/L
sediment	EPA 8270	Acenaphthylene	Total	ng/g dw
sediment	EPA 8270	Acenaphthylene	Total	ug/Kg dw
sediment	EPA 8270C	Acenaphthylene	Total	ng/g dw
sediment	EPA 8270C	Acenaphthylene	Total	ng/g ww
sediment	EPA 8270C	Acenaphthylene	Total	ug/Kg dw
sediment	EPA 8270Cm	Acenaphthylene	Total	ug/Kg dw
sediment	EPA 8270M	Acenaphthylene	Total	ng/g dw
sediment	GCMS	Acenaphthylene	Total	ng/g dw
sediment	GCMS	Acenaphthylene	Total	ug/Kg dw
sediment	Not Recorded	Acenaphthylene	Total	ng/g dw
sediment	Plumb, 1981, AVS	Acid Volatile Sulfides	Total	umol/g
blankwater	EPA 515.3	Acifluorfen	Total	ug/L
runoff	EPA 515.3	Acifluorfen	Total	ug/L
habitat	FieldObservations	Age_Pond	None	yr
blankwater	EPA 525.2	Alachlor	Total	ug/L
runoff	EPA 525.2	Alachlor	Total	ug/L
blankmatrix	EPA 8081BM	Aldrin	Total	ng/g dw
blankwater	EPA 608	Aldrin	Total	ug/L
blankwater	EPA 625	Aldrin	Total	ug/L
blankwater	EPA 625M	Aldrin	Total	ug/L
labwater	EPA 8081BM	Aldrin	Total	ug/L

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runoff	EPA 608	Aldrin	Total	ug/L
runoff	EPA 625M	Aldrin	Total	ug/L
samplewater	EPA 608	Aldrin	Total	ug/L
samplewater	EPA 608M	Aldrin	Total	ug/L
samplewater	EPA 625	Aldrin	Dissolved	ug/L
samplewater	EPA 625	Aldrin	Total	ug/L
samplewater	EPA 8081BM	Aldrin	Total	ug/L
samplewater, particulate, <63 um	EPA 625	Aldrin	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	Aldrin	Total	ug/L
sediment	EPA 608M	Aldrin	Total	ug/Kg dw
sediment	EPA 8081	Aldrin	Total	%
sediment	EPA 8081	Aldrin	Total	ng/g dw
sediment	EPA 8081BM	Aldrin	Total	ng/g dw
sediment	EPA 8270C	Aldrin	Total	ng/g dw
sediment	EPA 8270C	Aldrin	Total	ng/g ww
sediment	EPA 8270Cm	Aldrin	Total	ug/Kg dw
sediment	GCECD/GCMS	Aldrin	Total	%
sediment	GCECD/GCMS	Aldrin	Total	ng/g dw
sediment	GCMS	Aldrin	Total	ng/g dw
habitat	ObservedFieldMeasure	Algae Cover	None	%
habitat	ObservedFieldMeasure	Algae Cover Filamentous	None	%
habitat	ObservedFieldMeasure	Algae-attached	None	%
habitat	ObservedFieldMeasure	Algae-floating mats	None	%
habitat	ObservedFieldMeasure	Algal Cover Periphyton	None	%
blankwater	QC 10303311A	Alkalinity as CaCO3	Total	mg/L
blankwater	SM 2320 B	Alkalinity as CaCO3	Total	mg/L
overlyingwater	ToxWQMeasurement	Alkalinity as CaCO3	Total	mg/L
runoff	SM 2320 B	Alkalinity as CaCO3	Total	mg/L
samplewater	FieldMeasure	Alkalinity as CaCO3	Total	mg/L
samplewater	QC 10303311A	Alkalinity as CaCO3	Total	mg/L
samplewater	SM 2320 B	Alkalinity as CaCO3	Total	mg/L

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blankmatrix	EPA 8081BM	Allelthrin	Total	ng/g dw
blankwater	EPA 625	Allelthrin	Total	ug/L
samplewater	EPA 625	Allelthrin	Total	ug/L
sediment	EPA 8081BM	Allelthrin	Total	ng/g dw
sediment	EPA 8270Cm	Allelthrin	Total	ug/Kg dw
blankmatrix	EPA 200.8	Aluminum	Dissolved	ug/L
blankmatrix	EPA 200.8	Aluminum	Total	ug/g dw
blankmatrix	EPA 6010B	Aluminum	Total	mg/Kg dw
blankmatrix	ICPAES	Aluminum	Total	mg/Kg dw
blankmatrix	ICP-MS	Aluminum	Total	mg/Kg dw
blankmatrix	ICP-MS	Aluminum	Total	mg/L
blankwater	EPA 200.8	Aluminum	Dissolved	ug/L
blankwater	EPA 200.8	Aluminum	Total	ug/L
blankwater	EPA 200.8m	Aluminum	Total	ug/L
blankwater	EPA 6010B	Aluminum	Total	mg/Kg dw
blankwater	ICPAES	Aluminum	Total	mg/Kg dw
labwater	ICPAES	Aluminum	Total	mg/L
labwater	ICPAES	Aluminum	Total	ng/g dw
runoff	EPA 200.8	Aluminum	Dissolved	ug/L
runoff	EPA 200.8	Aluminum	Total	ug/L
runoff	EPA 200.8m	Aluminum	Dissolved	ug/L
runoff	EPA 200.8m	Aluminum	Total	ug/L
samplewater	EPA 200.8	Aluminum	Dissolved	ug/L
samplewater	EPA 200.8	Aluminum	Total	ug/L
sediment	EPA 200.7	Aluminum	Total	mg/Kg dw
sediment	EPA 200.7	Aluminum	Total	ug/L
sediment	EPA 200.8	Aluminum	Total	ug/g dw
sediment	EPA 200.8	Aluminum	Total	umol/g
sediment	EPA 6010B	Aluminum	Total	mg/Kg dw
sediment	EPA 6010B	Aluminum	Total	mg/L
sediment	EPA 6010B	Aluminum	Total	ug/g dw
sediment	EPA 6020	Aluminum	Total	%
sediment	EPA 6020	Aluminum	Total	ug/g dw
sediment	EPA 6020	Aluminum	Total	ug/g ww
sediment	EPA 6020m	Aluminum	Total	mg/Kg dw

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sediment	GFAA/FAA	Aluminum	Total	ug/g dw
sediment	ICPAES	Aluminum	Total	mg/Kg dw
sediment	ICP-MS	Aluminum	Total	mg/Kg dw
sediment	ICP-MS	Aluminum	Total	ng/g dw
sediment	ICP-MS	Aluminum	Total	ug/g dw
SEM-Extract	EPA 200.8m	Aluminum	Total	umol/g
blankwater	EPA 350.1	Ammonia as N	Total	mg/L
blankwater	QC 10107061G	Ammonia as N	Total	mg/L
blankwater	SM 4500-N C/NH3 E	Ammonia as N	Total	mg/L
blankwater	SM 4500-NH3 C v18	Ammonia as N	Total	mg/L
blankwater	SM 4500-NH3 F	Ammonia as N	Total	mg/L
overlyingwater	ToxWQMeasurement	Ammonia as N	Total	mg/L
runoff	EPA 350.1	Ammonia as N	Total	mg/L
runoff	SM 4500-NH3 F	Ammonia as N	Total	mg/L
samplewater	EPA 350.1	Ammonia as N	Total	mg/L
samplewater	FieldMeasure	Ammonia as N	Total	mg/L
samplewater	QC 10107061G	Ammonia as N	Total	mg/L
samplewater	SM 4500-N C/NH3 E	Ammonia as N	Total	mg/L
samplewater	SM 4500-NH3 C v18	Ammonia as N	Total	mg/L
samplewater	SM 4500-NH3 F	Ammonia as N	Total	mg/L
samplewater	SM 4500-NH3 H	Ammonia as N	Total	mg/L
sediment	EPA 350.1M	Ammonia as N	Total	mg/Kg dw
blankwater	FieldMeasure	Ammonia as NH3	Total	mg/L
overlyingwater	ToxWQMeasurement	Ammonia as NH3	Total	mg/L
samplewater	FieldMeasure	Ammonia as NH3	Total	mg/L
sediment, interstitialwater	ToxWQMeasurement	Ammonia as NH3	Total	mg/L
overlyingwater	ToxWQMeasurement	Ammonia as NH3, Unionized	Total	mg/L
sediment, interstitialwater	ToxWQMeasurement	Ammonia as NH3, Unionized	Total	mg/L
habitat	FieldObservations	Angling Pressure	None	none
blankmatrix	EPA 8270	Anthracene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Anthracene	Total	ng/g dw
blankmatrix	GCMS	Anthracene	Total	ng/g dw
blankwater	EPA 625	Anthracene	Total	ug/L

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blankwater	EPA 625M	Anthracene	Total	ug/L
blankwater	EPA 8270	Anthracene	Total	ug/Kg dw
blankwater	EPA 8270Cm	Anthracene	Total	ug/L
blankwater	GCMS	Anthracene	Total	ug/Kg dw
runoff	EPA 625	Anthracene	Total	ug/L
runoff	EPA 625M	Anthracene	Total	ug/L
runoff	EPA 8270Cm	Anthracene	Total	ug/L
sediment	EPA 8270	Anthracene	Total	%
sediment	EPA 8270	Anthracene	Total	ng/g dw
sediment	EPA 8270	Anthracene	Total	ug/Kg dw
sediment	EPA 8270C	Anthracene	Total	ng/g dw
sediment	EPA 8270C	Anthracene	Total	ng/g ww
sediment	EPA 8270C	Anthracene	Total	ug/Kg dw
sediment	EPA 8270Cm	Anthracene	Total	ug/Kg dw
sediment	EPA 8270M	Anthracene	Total	ng/g dw
sediment	GCMS	Anthracene	Total	ng/g dw
sediment	GCMS	Anthracene	Total	ug/Kg dw
sediment	Not Recorded	Anthracene	Total	ng/g dw
sediment	EPA 8270	Anthracene-d10(Surrogate)	Total	%
blankmatrix	EPA 200.8	Antimony	Total	ug/g dw
blankmatrix	EPA 6010B	Antimony	Total	mg/Kg dw
blankmatrix	ICPAES	Antimony	Total	mg/Kg dw
blankmatrix	ICP-MS	Antimony	Total	mg/Kg dw
blankmatrix	ICP-MS	Antimony	Total	mg/L
blankwater	EPA 200.8	Antimony	Dissolved	ug/L
blankwater	EPA 200.8	Antimony	Total	ug/L
blankwater	EPA 6010B	Antimony	Total	mg/Kg dw
blankwater	ICP-MS	Antimony	Total	mg/Kg dw
labwater	EPA 200.9	Antimony	Total	mg/L
labwater	EPA 200.9	Antimony	Total	ng/g dw
runoff	EPA 200.8	Antimony	Dissolved	ug/L
runoff	EPA 200.8	Antimony	Total	ug/L
samplewater	EPA 200.8	Antimony	Dissolved	ug/L
samplewater	EPA 200.8	Antimony	Total	ug/L

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sediment	EPA 200.7	Antimony	Total	mg/Kg dw
sediment	EPA 200.7	Antimony	Total	ug/L
sediment	EPA 200.8	Antimony	Total	ug/g dw
sediment	EPA 200.8	Antimony	Total	umol/g
sediment	EPA 200.9	Antimony	Total	mg/Kg dw
sediment	EPA 200.9	Antimony	Total	mg/L
sediment	EPA 200.9	Antimony	Total	ng/g dw
sediment	EPA 6010B	Antimony	Total	mg/Kg dw
sediment	EPA 6010B	Antimony	Total	ug/g dw
sediment	EPA 6020	Antimony	Total	%
sediment	EPA 6020	Antimony	Total	ug/g dw
sediment	EPA 6020	Antimony	Total	ug/g ww
sediment	EPA 6020m	Antimony	Total	mg/Kg dw
sediment	GFAA/FAA	Antimony	Total	ug/g dw
sediment	ICPAES	Antimony	Total	mg/Kg dw
sediment	ICP-MS	Antimony	Total	mg/Kg dw
sediment	ICP-MS	Antimony	Total	ng/g dw
sediment	ICP-MS	Antimony	Total	ug/g dw
SEM-Extract	EPA 200.8m	Antimony	Total	umol/g
blankmatrix	EPA 200.8	Arsenic	Dissolved	ug/L
blankmatrix	EPA 200.9	Arsenic	Total	ug/g dw
blankmatrix	HAA	Arsenic	Total	mg/Kg dw
blankmatrix	ICP-MS	Arsenic	Total	mg/Kg dw
blankmatrix	ICP-MS	Arsenic	Total	mg/L
blankwater	EPA 1640	Arsenic	Dissolved	ug/L
blankwater	EPA 1640	Arsenic	Total	ug/L
blankwater	EPA 200.7	Arsenic	Total	ug/L
blankwater	EPA 200.8	Arsenic	Dissolved	ug/L
blankwater	EPA 200.8	Arsenic	Total	ug/L
blankwater	EPA 200.8m	Arsenic	Total	ug/L
blankwater	ICP-MS	Arsenic	Total	mg/Kg dw
blankwater	SW7060	Arsenic	Total	mg/Kg dw
labwater	EPA 200.9	Arsenic	Total	mg/L
labwater	EPA 200.9	Arsenic	Total	ng/g dw
labwater	HAA	Arsenic	Total	mg/Kg dw

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runoff	EPA 200.8	Arsenic	Dissolved	ug/L
runoff	EPA 200.8	Arsenic	Total	ug/L
runoff	EPA 200.8m	Arsenic	Dissolved	ug/L
runoff	EPA 200.8m	Arsenic	Total	ug/L
samplewater	EPA 1640	Arsenic	Dissolved	ug/L
samplewater	EPA 1640	Arsenic	Total	ug/L
samplewater	EPA 200.7	Arsenic	Total	ug/L
samplewater	EPA 200.8	Arsenic	Dissolved	ug/L
samplewater	EPA 200.8	Arsenic	Total	ug/L
sediment	EPA 200.7	Arsenic	Total	mg/Kg dw
sediment	EPA 200.7	Arsenic	Total	ug/L
sediment	EPA 200.8	Arsenic	Total	ug/g dw
sediment	EPA 200.8	Arsenic	Total	umol/g
sediment	EPA 200.9	Arsenic	Total	mg/Kg dw
sediment	EPA 200.9	Arsenic	Total	mg/L
sediment	EPA 200.9	Arsenic	Total	ug/g dw
sediment	EPA 6010B	Arsenic	Total	mg/Kg dw
sediment	EPA 6020	Arsenic	Total	%
sediment	EPA 6020	Arsenic	Total	ug/g dw
sediment	EPA 6020	Arsenic	Total	ug/g ww
sediment	EPA 6020m	Arsenic	Total	mg/Kg dw
sediment	EPA 7060	Arsenic	Total	ug/g dw
sediment	GFAA/FAA	Arsenic	Total	ug/g dw
sediment	HAA	Arsenic	Total	mg/Kg dw
sediment	ICPAES	Arsenic	Total	mg/Kg dw
sediment	ICP-MS	Arsenic	Total	mg/Kg dw
sediment	ICP-MS	Arsenic	Total	ng/g dw
sediment	ICP-MS	Arsenic	Total	ug/g dw
sediment	SW7060	Arsenic	Total	mg/Kg dw
SEM-Extract	EPA 200.8m	Arsenic	Total	umol/g
labwater	EPA 8141AM	Aspon	Total	ug/L
samplewater	EPA 8141AM	Aspon	Total	ug/L
benthic	FieldMeasure	AssemblageIDA lgaeSa mpleVolume	None	mL
benthic	FieldMeasure	AssemblageIDD iatomS ampleVolume	None	mL

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blankwater	EPA 525.2	Atrazine	Total	ug/L
blankwater	EPA 625	Atrazine	Total	ug/L
runoff	EPA 525.2	Atrazine	Total	ug/L
samplewater	EPA 525.2	Atrazine	Total	ug/L
samplewater	EPA 625	Atrazine	Total	ug/L
sediment	EPA 8270	Atrazine	Total	ng/g dw
labwater	EPA 8141AM	Azinphos Ethyl	Total	ug/L
samplewater	EPA 8141AM	Azinphos Ethyl	Total	ug/L
blankwater	EPA 525.2	Azinphos Methyl	Total	ug/L
labwater	EPA 8141AM	Azinphos Methyl	Total	ug/L
runoff	EPA 525.2	Azinphos Methyl	Total	ug/L
samplewater	EPA 8141AM	Azinphos Methyl	Total	ug/L
blankwater	EPA 625M	Azobenzene	Total	ug/L
runoff	EPA 625M	Azobenzene	Total	ug/L
habitat	FieldObservations	Back Water	None	none
blankwater	A.E. Bernhard and K.G. Field. 2000	Bacteriodales, Human	None	none
blankwater	qPCR (Taqman)	Bacteriodales, Human	None	none
samplewater	A.E. Bernhard and K.G. Field. 2000	Bacteriodales, Human	None	none
samplewater	qPCR (Taqman)	Bacteriodales, Human	None	none
blankwater	qPCR (Taqman)	Bacteriodales, Universal	None	none
samplewater	qPCR (Taqman)	Bacteriodales, Universal	None	none
habitat	FieldMeasure	Bank Angle	None	degrees
habitat	FieldObservations	Bank Angle	None	none
habitat	FieldObservations	Bank Cover	None	none
habitat	FieldObservations	Bank Stability	None	none
habitat	FieldMeasure	Bankfull Height	None	m
habitat	FieldMeasure	Bankfull Width	None	m
habitat	FieldMeasure	Bankfull Width Reach	None	m
habitat	FieldObservations	Bar Present	None	none
habitat	FieldMeasure	Bar Width	None	m
blankmatrix	EPA 6010B	Barium	Total	mg/Kg dw
blankmatrix	ICPAES	Barium	Total	mg/Kg dw

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blankmatrix	ICP-MS	Barium	Total	mg/Kg dw
blankmatrix	ICP-MS	Barium	Total	mg/L
blankwater	EPA 200.8	Barium	Dissolved	ug/L
blankwater	EPA 200.8	Barium	Total	ug/L
blankwater	EPA 6010B	Barium	Total	mg/Kg dw
blankwater	ICP-MS	Barium	Total	mg/Kg dw
labwater	ICPAES	Barium	Total	mg/L
labwater	ICPAES	Barium	Total	ng/g dw
runoff	EPA 200.8	Barium	Dissolved	ug/L
runoff	EPA 200.8	Barium	Total	ug/L
samplewater	EPA 200.8	Barium	Dissolved	ug/L
samplewater	EPA 200.8	Barium	Total	ug/L
sediment	EPA 200.7	Barium	Total	mg/Kg dw
sediment	EPA 200.7	Barium	Total	ug/L
sediment	EPA 200.8	Barium	Total	umol/g
sediment	EPA 6010B	Barium	Total	mg/Kg dw
sediment	EPA 6010B	Barium	Total	mg/L
sediment	EPA 6020m	Barium	Total	mg/Kg dw
sediment	ICPAES	Barium	Total	mg/Kg dw
sediment	ICP-MS	Barium	Total	mg/Kg dw
SEM-Extract	EPA 200.8m	Barium	Total	umol/g
habitat	FieldMeasure	Bearing	First Supplemental	degrees
habitat	FieldMeasure	Bearing	Main	degrees
habitat	FieldMeasure	Bearing	Second Supplemental	degrees
habitat	FieldMeasure	Bearing	Third Supplemental	degrees
habitat	FieldObservations	BeaufortScale	None	none
habitat	FieldObservations	Beaver Flow Modifications	None	none
habitat	FieldObservations	Beaver Signs	None	none
blankwater	EPA 515.3	Bentazon	Total	ug/L
runoff	EPA 515.3	Bentazon	Total	ug/L
blankmatrix	EPA 8270	Benz(a)anthracene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Benz(a)anthracene	Total	ng/g dw
blankmatrix	GCMS	Benz(a)anthracene	Total	ng/g dw
blankwater	EPA 625	Benz(a)anthracene	Total	ug/L

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blankwater	EPA 625M	Benz(a)anthracene	Total	ug/L
blankwater	EPA 8270	Benz(a)anthracene	Total	ug/Kg dw
blankwater	EPA 8270Cm	Benz(a)anthracene	Total	ug/L
blankwater	GCMS	Benz(a)anthracene	Total	ug/Kg dw
runoff	EPA 625	Benz(a)anthracene	Total	ug/L
runoff	EPA 625M	Benz(a)anthracene	Total	ug/L
runoff	EPA 8270Cm	Benz(a)anthracene	Total	ug/L
sediment	EPA 8270	Benz(a)anthracene	Total	%
sediment	EPA 8270	Benz(a)anthracene	Total	ng/g dw
sediment	EPA 8270	Benz(a)anthracene	Total	ug/Kg dw
sediment	EPA 8270C	Benz(a)anthracene	Total	ng/g dw
sediment	EPA 8270C	Benz(a)anthracene	Total	ng/g ww
sediment	EPA 8270C	Benz(a)anthracene	Total	ug/Kg dw
sediment	EPA 8270Cm	Benz(a)anthracene	Total	ug/Kg dw
sediment	EPA 8270M	Benz(a)anthracene	Total	ng/g dw
sediment	GCMS	Benz(a)anthracene	Total	ng/g dw
sediment	GCMS	Benz(a)anthracene	Total	ug/Kg dw
sediment	Not Recorded	Benz(a)anthracene	Total	ng/g dw
blankmatrix	EPA 8270M	Benz(a)anthracene-d12(Surrogate)	Total	% Recovery
sediment	EPA 8270M	Benz(a)anthracene-d12(Surrogate)	Total	% Recovery
blankwater	EPA 625	Benzidine	Total	ug/L
blankwater	EPA 625M	Benzidine	Total	ug/L
runoff	EPA 625	Benzidine	Total	ug/L
runoff	EPA 625M	Benzidine	Total	ug/L
blankmatrix	EPA 8270	Benzo(a)pyrene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Benzo(a)pyrene	Total	ng/g dw
blankmatrix	GCMS	Benzo(a)pyrene	Total	ng/g dw
blankwater	EPA 525.2	Benzo(a)pyrene	Total	ug/L
blankwater	EPA 625M	Benzo(a)pyrene	Total	ug/L
blankwater	EPA 8270	Benzo(a)pyrene	Total	ug/Kg dw
blankwater	GCMS	Benzo(a)pyrene	Total	ug/Kg dw
runoff	EPA 525.2	Benzo(a)pyrene	Total	ug/L
runoff	EPA 625M	Benzo(a)pyrene	Total	ug/L
sediment	EPA 8270	Benzo(a)pyrene	Total	ng/g dw

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sediment	EPA 8270	Benzo(a)pyrene	Total	ug/Kg dw
sediment	EPA 8270C	Benzo(a)pyrene	Total	ng/g dw
sediment	EPA 8270C	Benzo(a)pyrene	Total	ng/g ww
sediment	EPA 8270C	Benzo(a)pyrene	Total	ug/Kg dw
sediment	EPA 8270Cm	Benzo(a)pyrene	Total	ug/Kg dw
sediment	EPA 8270M	Benzo(a)pyrene	Total	ng/g dw
sediment	GCMS	Benzo(a)pyrene	Total	ng/g dw
sediment	GCMS	Benzo(a)pyrene	Total	ug/Kg dw
sediment	Not Recorded	Benzo(a)pyrene	Total	ng/g dw
blankmatrix	EPA 8270	Benzo(b)fluoranthene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Benzo(b)fluoranthene	Total	ng/g dw
blankmatrix	GCMS	Benzo(b)fluoranthene	Total	ng/g dw
blankwater	EPA 625	Benzo(b)fluoranthene	Total	ug/L
blankwater	EPA 625M	Benzo(b)fluoranthene	Total	ug/L
blankwater	EPA 8270	Benzo(b)fluoranthene	Total	ug/Kg dw
blankwater	EPA 8270Cm	Benzo(b)fluoranthene	Total	ug/L
blankwater	GCMS	Benzo(b)fluoranthene	Total	ug/Kg dw
runoff	EPA 625	Benzo(b)fluoranthene	Total	ug/L
runoff	EPA 625M	Benzo(b)fluoranthene	Total	ug/L
runoff	EPA 8270Cm	Benzo(b)fluoranthene	Total	ug/L
sediment	EPA 8270	Benzo(b)fluoranthene	Total	%
sediment	EPA 8270	Benzo(b)fluoranthene	Total	ng/g dw
sediment	EPA 8270	Benzo(b)fluoranthene	Total	ug/Kg dw
sediment	EPA 8270C	Benzo(b)fluoranthene	Total	ng/g dw
sediment	EPA 8270C	Benzo(b)fluoranthene	Total	ng/g ww
sediment	EPA 8270C	Benzo(b)fluoranthene	Total	ug/Kg dw
sediment	EPA 8270Cm	Benzo(b)fluoranthene	Total	ug/Kg dw
sediment	EPA 8270M	Benzo(b)fluoranthene	Total	ng/g dw
sediment	GCMS	Benzo(b)fluoranthene	Total	ng/g dw
sediment	GCMS	Benzo(b)fluoranthene	Total	ug/Kg dw
sediment	Not Recorded	Benzo(b)fluoranthene	Total	ng/g dw
blankmatrix	EPA 8270	Benzo(e)pyrene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Benzo(e)pyrene	Total	ng/g dw
blankmatrix	GCMS	Benzo(e)pyrene	Total	ng/g dw
blankwater	EPA 625M	Benzo(e)pyrene	Total	ug/L

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blankwater	EPA 8270	Benzo(e)pyrene	Total	ug/Kg dw
blankwater	GCMS	Benzo(e)pyrene	Total	ug/Kg dw
runoff	EPA 625M	Benzo(e)pyrene	Total	ug/L
sediment	EPA 8270	Benzo(e)pyrene	Total	ug/Kg dw
sediment	EPA 8270C	Benzo(e)pyrene	Total	ng/g dw
sediment	EPA 8270C	Benzo(e)pyrene	Total	ug/Kg dw
sediment	EPA 8270Cm	Benzo(e)pyrene	Total	ug/Kg dw
sediment	EPA 8270M	Benzo(e)pyrene	Total	ng/g dw
sediment	GCMS	Benzo(e)pyrene	Total	ng/g dw
sediment	GCMS	Benzo(e)pyrene	Total	ug/Kg dw
blankmatrix	EPA 8270	Benzo(g,h,i)perylene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Benzo(g,h,i)perylene	Total	ng/g dw
blankmatrix	GCMS	Benzo(g,h,i)perylene	Total	ng/g dw
blankwater	EPA 625	Benzo(g,h,i)perylene	Total	ug/L
blankwater	EPA 625M	Benzo(g,h,i)perylene	Total	ug/L
blankwater	EPA 8270	Benzo(g,h,i)perylene	Total	ug/Kg dw
blankwater	EPA 8270Cm	Benzo(g,h,i)perylene	Total	ug/L
blankwater	GCMS	Benzo(g,h,i)perylene	Total	ug/Kg dw
runoff	EPA 625	Benzo(g,h,i)perylene	Total	ug/L
runoff	EPA 625M	Benzo(g,h,i)perylene	Total	ug/L
runoff	EPA 8270Cm	Benzo(g,h,i)perylene	Total	ug/L
sediment	EPA 8270	Benzo(g,h,i)perylene	Total	ng/g dw
sediment	EPA 8270	Benzo(g,h,i)perylene	Total	ug/Kg dw
sediment	EPA 8270C	Benzo(g,h,i)perylene	Total	ng/g dw
sediment	EPA 8270C	Benzo(g,h,i)perylene	Total	ng/g ww
sediment	EPA 8270C	Benzo(g,h,i)perylene	Total	ug/Kg dw
sediment	EPA 8270Cm	Benzo(g,h,i)perylene	Total	ug/Kg dw
sediment	EPA 8270M	Benzo(g,h,i)perylene	Total	ng/g dw
sediment	GCMS	Benzo(g,h,i)perylene	Total	ng/g dw
sediment	GCMS	Benzo(g,h,i)perylene	Total	ug/Kg dw
sediment	Not Recorded	Benzo(g,h,i)perylene	Total	ng/g dw
blankmatrix	EPA 8270M	Benzo(g,h,i)perylene-d12(Surrogate)	Total	% Recovery
sediment	EPA 8270M	Benzo(g,h,i)perylene-d12(Surrogate)	Total	% Recovery
blankmatrix	EPA 8270	Benzo(k)fluoranthene	Total	ug/Kg dw

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blankmatrix	EPA 8270M	Benzo(k)fluoranthene	Total	ng/g dw
blankmatrix	GCMS	Benzo(k)fluoranthene	Total	ng/g dw
blankwater	EPA 625	Benzo(k)fluoranthene	Total	ug/L
blankwater	EPA 625M	Benzo(k)fluoranthene	Total	ug/L
blankwater	EPA 8270	Benzo(k)fluoranthene	Total	ug/Kg dw
blankwater	EPA 8270Cm	Benzo(k)fluoranthene	Total	ug/L
blankwater	GCMS	Benzo(k)fluoranthene	Total	ug/Kg dw
runoff	EPA 625	Benzo(k)fluoranthene	Total	ug/L
runoff	EPA 625M	Benzo(k)fluoranthene	Total	ug/L
runoff	EPA 8270Cm	Benzo(k)fluoranthene	Total	ug/L
sediment	EPA 8270	Benzo(k)fluoranthene	Total	ng/g dw
sediment	EPA 8270	Benzo(k)fluoranthene	Total	ug/Kg dw
sediment	EPA 8270C	Benzo(k)fluoranthene	Total	ng/g dw
sediment	EPA 8270C	Benzo(k)fluoranthene	Total	ng/g ww
sediment	EPA 8270C	Benzo(k)fluoranthene	Total	ug/Kg dw
sediment	EPA 8270Cm	Benzo(k)fluoranthene	Total	ug/Kg dw
sediment	EPA 8270M	Benzo(k)fluoranthene	Total	ng/g dw
sediment	GCMS	Benzo(k)fluoranthene	Total	ng/g dw
sediment	GCMS	Benzo(k)fluoranthene	Total	ug/Kg dw
sediment	Not Recorded	Benzo(k)fluoranthene	Total	ng/g dw
blankmatrix	EPA 200.8	Beryllium	Total	ug/g dw
blankmatrix	EPA 6010B	Beryllium	Total	mg/Kg dw
blankmatrix	ICPAES	Beryllium	Total	mg/Kg dw
blankmatrix	ICP-MS	Beryllium	Total	mg/Kg dw
blankmatrix	ICP-MS	Beryllium	Total	mg/L
blankwater	EPA 200.8	Beryllium	Dissolved	ug/L
blankwater	EPA 200.8	Beryllium	Total	ug/L
blankwater	EPA 6010B	Beryllium	Total	mg/Kg dw
blankwater	ICP-MS	Beryllium	Total	mg/Kg dw
labwater	EPA 200.9	Beryllium	Total	mg/L
labwater	EPA 200.9	Beryllium	Total	ng/g dw
runoff	EPA 200.8	Beryllium	Dissolved	ug/L
runoff	EPA 200.8	Beryllium	Total	ug/L
samplewater	EPA 200.8	Beryllium	Dissolved	ug/L
sediment	EPA 200.7	Beryllium	Total	mg/Kg dw

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sediment	EPA 200.7	Beryllium	Total	ug/L
sediment	EPA 200.8	Beryllium	Total	ug/g dw
sediment	EPA 200.8	Beryllium	Total	umol/g
sediment	EPA 200.9	Beryllium	Total	mg/Kg dw
sediment	EPA 200.9	Beryllium	Total	ng/g dw
sediment	EPA 6010B	Beryllium	Total	mg/Kg dw
sediment	EPA 6010B	Beryllium	Total	mg/L
sediment	EPA 6020	Beryllium	Total	ug/g dw
sediment	EPA 6020m	Beryllium	Total	mg/Kg dw
sediment	ICPAES	Beryllium	Total	mg/Kg dw
sediment	ICP-MS	Beryllium	Total	mg/Kg dw
SEM-Extract	EPA 200.8m	Beryllium	Total	umol/g
blankmatrix	EPA 8081BM	Bifenthrin	Total	ng/g dw
blankwater	EPA 625	Bifenthrin	Total	ug/L
blankwater	EPA 8270	Bifenthrin	Total	ug/L
blankwater	EPA 8270C	Bifenthrin	Total	ug/L
labwater	EPA 8081BM	Bifenthrin	Total	ug/L
samplewater	EPA 625	Bifenthrin	Dissolved	ug/L
samplewater	EPA 625	Bifenthrin	Total	ug/L
samplewater	EPA 8081BM	Bifenthrin	Total	ug/L
samplewater	EPA 8270	Bifenthrin	Total	ug/L
samplewater	EPA 8270C	Bifenthrin	Total	ug/L
samplewater, particulate, <63 um	EPA 625	Bifenthrin	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	Bifenthrin	Total	ug/L
sediment	EPA 8081BM	Bifenthrin	Total	ng/g dw
sediment	EPA 8270Cm	Bifenthrin	Total	ug/Kg dw
Not Applicable	None	Biomass (wt/orig indiv)	None	mg/ind
benthic	FieldMeasure	BiomassSampleVolume	None	mL
blankmatrix	EPA 8270	Biphenyl	Total	ug/Kg dw
blankmatrix	EPA 8270M	Biphenyl	Total	ng/g dw
blankmatrix	GCMS	Biphenyl	Total	ng/g dw
blankwater	EPA 625M	Biphenyl	Total	ug/L

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blankwater	EPA 8270	Biphenyl	Total	ug/Kg dw
blankwater	GCMS	Biphenyl	Total	ug/Kg dw
runoff	EPA 625M	Biphenyl	Total	ug/L
sediment	EPA 8270	Biphenyl	Total	ng/g dw
sediment	EPA 8270	Biphenyl	Total	ug/Kg dw
sediment	EPA 8270C	Biphenyl	Total	ng/g dw
sediment	EPA 8270C	Biphenyl	Total	ng/g ww
sediment	EPA 8270C	Biphenyl	Total	ug/Kg dw
sediment	EPA 8270Cm	Biphenyl	Total	ug/Kg dw
sediment	EPA 8270M	Biphenyl	Total	ng/g dw
sediment	GCMS	Biphenyl	Total	ng/g dw
sediment	GCMS	Biphenyl	Total	ug/Kg dw
sediment	Not Recorded	Biphenyl	Total	ng/g dw
blankmatrix	EPA 8270M	Biphenyl-d10(Surrogate)	Total	% Recovery
sediment	EPA 8270M	Biphenyl-d10(Surrogate)	Total	% Recovery
blankwater	EPA 625	Bis(2-chloroethoxy)methane	Total	ug/L
blankwater	EPA 625M	Bis(2-chloroethoxy)methane	Total	ug/L
runoff	EPA 625	Bis(2-chloroethoxy)methane	Total	ug/L
runoff	EPA 625M	Bis(2-chloroethoxy)methane	Total	ug/L
blankwater	EPA 625	Bis(2-chloroethyl)ether	Total	ug/L
blankwater	EPA 625M	Bis(2-chloroethyl)ether	Total	ug/L
runoff	EPA 625	Bis(2-chloroethyl)ether	Total	ug/L
runoff	EPA 625M	Bis(2-chloroethyl)ether	Total	ug/L
blankwater	EPA 625	Bis(2-chloroisopropyl)ether	Total	ug/L
blankwater	EPA 625M	Bis(2-chloroisopropyl)ether	Total	ug/L
runoff	EPA 625	Bis(2-chloroisopropyl)ether	Total	ug/L
runoff	EPA 625M	Bis(2-chloroisopropyl)ether	Total	ug/L
blankwater	EPA 525.2	Bis(2-ethylhexyl)adipate	Total	ug/L

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runoff	EPA 525.2	Bis(2-ethylhexyl)adipate	Total	ug/L
blankwater	EPA 525.2	Bis(2-ethylhexyl)phthalate	Total	ug/L
blankwater	EPA 625M	Bis(2-ethylhexyl)phthalate	Total	ug/L
runoff	EPA 525.2	Bis(2-ethylhexyl)phthalate	Total	ug/L
runoff	EPA 625M	Bis(2-ethylhexyl)phthalate	Total	ug/L
blankwater	EPA 405.1	BOD	Total	mg/L
blankwater	SM 5210 B	BOD	Total	mg/L
runoff	EPA 405.1	BOD	Total	mg/L
runoff	SM 5210 B	BOD	Total	mg/L
blankwater	EPA 525.2	Bolstar	Total	ug/L
blankwater	EPA 625	Bolstar	Total	ng/L
blankwater	EPA 625M	Bolstar	Total	ug/L
labwater	EPA 8141AM	Bolstar	Total	ug/L
runoff	EPA 525.2	Bolstar	Total	ug/L
runoff	EPA 625M	Bolstar	Total	ug/L
samplewater	EPA 625	Bolstar	Total	ng/L
samplewater	EPA 8141AM	Bolstar	Total	ug/L
sediment	EPA 8270C	Bolstar	Total	ng/g dw
sediment	EPA 8270Cm	Bolstar	Total	ug/Kg dw
samplewater	EPA 200.7	Boron	Total	mg/L
samplewater	EPA 200.7	Boron	Total	ug/L
samplewater	EPA 200.8	Boron	Total	ug/L
habitat	FieldObservations	Bridges, Culverts	None	none
blankwater	EPA 525.2	Bromacil	Total	ug/L
runoff	EPA 525.2	Bromacil	Total	ug/L
blankwater	EPA 300.0	Bromide	Total	mg/L
runoff	EPA 300.0	Bromide	Total	mg/L
runoff	EPA 300.0	Bromide	Total	ug/L
blankwater	EPA 524.2	Bromofluorobenzene, 4-	Total	ug/L
blankwater	EPA 8260B	Bromofluorobenzene, 4-	Total	ug/L
runoff	EPA 524.2	Bromofluorobenzene,	Total	ug/L

		4-		
runoff	EPA 8260B	Bromofluorobenzene, 4-	Total	ug/L
blankwater	EPA 625	Bromophenyl phenyl ether, 4-	Total	ug/L
blankwater	EPA 625M	Bromophenyl phenyl ether, 4-	Total	ug/L
runoff	EPA 625	Bromophenyl phenyl ether, 4-	Total	ug/L
runoff	EPA 625M	Bromophenyl phenyl ether, 4-	Total	ug/L
blankwater	EPA 525.2	Butachlor	Total	ug/L
runoff	EPA 525.2	Butachlor	Total	ug/L
blankwater	EPA 625	Butyl benzyl phthalate	Total	ug/L
blankwater	EPA 625M	Butyl benzyl phthalate	Total	ug/L
runoff	EPA 625	Butyl benzyl phthalate	Total	ug/L
runoff	EPA 625M	Butyl benzyl phthalate	Total	ug/L
blankmatrix	EPA 200.8	Cadmium	Dissolved	ug/L
blankmatrix	EPA 200.8	Cadmium	Total	ug/g dw
blankmatrix	EPA 6010B	Cadmium	Total	mg/Kg dw
blankmatrix	ICPAES	Cadmium	Total	mg/Kg dw
blankmatrix	ICP-MS	Cadmium	Total	mg/Kg dw
blankmatrix	ICP-MS	Cadmium	Total	mg/L
blankmatrix	ICP-MS	Cadmium	Total	ug/L
blankwater	EPA 1640	Cadmium	Dissolved	ug/L
blankwater	EPA 1640	Cadmium	Total	ug/L
blankwater	EPA 200.8	Cadmium	Dissolved	ug/L
blankwater	EPA 200.8	Cadmium	Total	ug/L
blankwater	EPA 200.8m	Cadmium	Total	ug/L
blankwater	EPA 6010B	Cadmium	Total	mg/Kg dw
blankwater	ICP-MS	Cadmium	Total	mg/Kg dw
labwater	EPA 200.9	Cadmium	Total	mg/L
labwater	EPA 200.9	Cadmium	Total	ng/g dw
labwater	ICPAES	Cadmium	Total	mg/L
labwater	ICPAES	Cadmium	Total	ng/g dw
runoff	EPA 200.8	Cadmium	Dissolved	ug/L
runoff	EPA 200.8	Cadmium	Total	ug/L

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runoff	EPA 200.8m	Cadmium	Dissolved	ug/L
runoff	EPA 200.8m	Cadmium	Total	ug/L
samplewater	EPA 1640	Cadmium	Dissolved	ug/L
samplewater	EPA 1640	Cadmium	Total	ug/L
samplewater	EPA 200.8	Cadmium	Dissolved	mg/L
samplewater	EPA 200.8	Cadmium	Dissolved	ug/L
samplewater	EPA 200.8	Cadmium	Total	ug/L
samplewater	EPA 6020	Cadmium	Dissolved	mg/L
sediment	EPA 200.7	Cadmium	Total	mg/Kg dw
sediment	EPA 200.7	Cadmium	Total	ug/L
sediment	EPA 200.8	Cadmium	Total	ug/g dw
sediment	EPA 200.8	Cadmium	Total	umol/g
sediment	EPA 200.9	Cadmium	Total	mg/Kg dw
sediment	EPA 200.9	Cadmium	Total	mg/L
sediment	EPA 200.9	Cadmium	Total	ng/g dw
sediment	EPA 6010B	Cadmium	Total	mg/Kg dw
sediment	EPA 6010B	Cadmium	Total	ug/g dw
sediment	EPA 6020	Cadmium	Total	%
sediment	EPA 6020	Cadmium	Total	ug/g dw
sediment	EPA 6020	Cadmium	Total	ug/g ww
sediment	EPA 6020m	Cadmium	Total	mg/Kg dw
sediment	GFAA/FAA	Cadmium	Total	ug/g dw
sediment	ICPAES	Cadmium	Total	mg/Kg dw
sediment	ICP-MS	Cadmium	Total	mg/Kg dw
sediment	ICP-MS	Cadmium	Total	ng/g dw
sediment	ICP-MS	Cadmium	Total	ug/g dw
SEM-Extract	EPA 200.8m	Cadmium	Total	umol/g
blankwater	EPA 200.7	Calcium	Total	mg/L
blankwater	EPA 200.8	Calcium	Total	mg/L
runoff	EPA 200.7	Calcium	Total	mg/L
samplewater	EPA 200.7	Calcium	Total	mg/L
samplewater	EPA 200.8	Calcium	Total	mg/L
habitat	FieldMeasure	Canopy Cover	None	none
blankwater	EPA 525.2	Captan	Total	ug/L
runoff	EPA 525.2	Captan	Total	ug/L

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blankwater	EPA 525.2	Carbophenothion	Total	ug/L
labwater	EPA 8141AM	Carbophenothion	Total	ug/L
runoff	EPA 525.2	Carbophenothion	Total	ug/L
samplewater	EPA 8141AM	Carbophenothion	Total	ug/L
habitat	ObservedFieldMeasure	Cascade/Falls	None	%
habitat	FieldObservations	Channel Constraining Feature	None	none
habitat	FieldObservations	Channel Constraint	None	none
habitat	ObservedFieldMeasure	Channel Margin in Contact	None	%
habitat	FieldObservations	Channel Pattern	None	none
habitat	FieldObservations	Channel Unit	None	none
habitat	FieldMeasure	Channel Width Reach	None	m
habitat	FieldObservations	Channelization	None	none
habitat	FieldObservations	Chemical Treatment	None	none
blankwater	EPA 515.3	Chloramben	Total	ug/L
runoff	EPA 515.3	Chloramben	Total	ug/L
blankmatrix	EPA 6020m	Chlordane, cis-	Total	ug/Kg dw
blankmatrix	EPA 8081BM	Chlordane, cis-	Total	ng/g dw
blankmatrix	EPA 8270	Chlordane, cis-	Total	ug/Kg dw
blankmatrix	GCMS	Chlordane, cis-	Total	ng/g dw
blankmatrix	GCMS	Chlordane, cis-	Total	ng/g ww
blankwater	EPA 608	Chlordane, cis-	Total	ug/L
blankwater	EPA 625	Chlordane, cis-	Total	ug/L
blankwater	EPA 625M	Chlordane, cis-	Total	ug/L
blankwater	IONGCMS	Chlordane, cis-	Total	ug/Kg dw
blankwater	SW2081/8082	Chlordane, cis-	Total	ug/Kg dw
labwater	EPA 8081BM	Chlordane, cis-	Total	ug/L
runoff	EPA 608	Chlordane, cis-	Total	ug/L
runoff	EPA 625M	Chlordane, cis-	Total	ug/L
samplewater	EPA 608	Chlordane, cis-	Total	ug/L
samplewater	EPA 625	Chlordane, cis-	Dissolved	ug/L
samplewater	EPA 625	Chlordane, cis-	Total	ug/L
samplewater	EPA 8081BM	Chlordane, cis-	Total	ug/L
samplewater, particulate, <63	EPA 625	Chlordane, cis-	Total	ug/L

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um				
samplewater, particulate, 63 um to 2000 um	EPA 625	Chlordane, cis-	Total	ug/L
sediment	EPA 6020m	Chlordane, cis-	Total	ng/g dw
sediment	EPA 608M	Chlordane, cis-	Total	ug/Kg dw
sediment	EPA 8081	Chlordane, cis-	Total	ng/g dw
sediment	EPA 8081A	Chlordane, cis-	Total	ug/Kg dw
sediment	EPA 8081BM	Chlordane, cis-	Total	ng/g dw
sediment	EPA 8270	Chlordane, cis-	Total	ug/Kg dw
sediment	EPA 8270C	Chlordane, cis-	Total	ng/g dw
sediment	EPA 8270C	Chlordane, cis-	Total	ng/g ww
sediment	EPA 8270Cm	Chlordane, cis-	Total	ug/Kg dw
sediment	GCECD/GCMS	Chlordane, cis-	Total	%
sediment	GCECD/GCMS	Chlordane, cis-	Total	ng/g dw
sediment	GCMS	Chlordane, cis-	Total	ng/g dw
sediment	IONGCMS	Chlordane, cis-	Total	ug/Kg dw
sediment	SW2081/8082	Chlordane, cis-	Total	ug/Kg dw
blankwater	EPA 608	Chlordane, Technical	Total	ug/L
runoff	EPA 608	Chlordane, Technical	Total	ug/L
blankmatrix	EPA 6020m	Chlordane, trans-	Total	ug/Kg dw
blankmatrix	EPA 8081BM	Chlordane, trans-	Total	ng/g dw
blankmatrix	EPA 8270	Chlordane, trans-	Total	ug/Kg dw
blankmatrix	GCMS	Chlordane, trans-	Total	ng/g dw
blankmatrix	GCMS	Chlordane, trans-	Total	ng/g ww
blankwater	EPA 608	Chlordane, trans-	Total	ug/L
blankwater	EPA 625	Chlordane, trans-	Total	ug/L
blankwater	EPA 625M	Chlordane, trans-	Total	ug/L
blankwater	IONGCMS	Chlordane, trans-	Total	ug/Kg dw
blankwater	SW2081/8082	Chlordane, trans-	Total	ug/Kg dw
labwater	EPA 8081BM	Chlordane, trans-	Total	ug/L
runoff	EPA 608	Chlordane, trans-	Total	ug/L
runoff	EPA 625M	Chlordane, trans-	Total	ug/L
samplewater	EPA 608	Chlordane, trans-	Total	ug/L
samplewater	EPA 625	Chlordane, trans-	Dissolved	ug/L

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samplewater	EPA 625	Chlordane, trans-	Total	ug/L
samplewater	EPA 8081BM	Chlordane, trans-	Total	ug/L
samplewater, particulate, <63 um	EPA 625	Chlordane, trans-	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	Chlordane, trans-	Total	ug/L
sediment	EPA 6020m	Chlordane, trans-	Total	ng/g dw
sediment	EPA 608M	Chlordane, trans-	Total	ug/Kg dw
sediment	EPA 8081A	Chlordane, trans-	Total	ug/Kg dw
sediment	EPA 8081BM	Chlordane, trans-	Total	ng/g dw
sediment	EPA 8270	Chlordane, trans-	Total	ug/Kg dw
sediment	EPA 8270C	Chlordane, trans-	Total	ng/g dw
sediment	EPA 8270Cm	Chlordane, trans-	Total	ug/Kg dw
sediment	GCMS	Chlordane, trans-	Total	ng/g dw
sediment	IONGCMS	Chlordane, trans-	Total	ug/Kg dw
sediment	SW2081/8082	Chlordane, trans-	Total	ug/Kg dw
labwater	EPA 8141AM	Chlorfenvinphos	Total	ug/L
samplewater	EPA 8141AM	Chlorfenvinphos	Total	ug/L
blankwater	EPA 300.0	Chloride	Dissolved	mg/L
blankwater	EPA 300.0	Chloride	Total	mg/L
runoff	EPA 300.0	Chloride	Dissolved	mg/L
runoff	EPA 300.0	Chloride	Total	mg/L
samplewater	EPA 300.0	Chloride	Dissolved	mg/L
samplewater	EPA 300.0	Chloride	Total	mg/L
samplewater	SM 4500-CI E	Chloride	Dissolved	mg/L
samplewater	SM 4500-CI E	Chloride	Total	mg/L
blankwater	SM 4500-CI G	Chlorine, Total Residual	Dissolved	mg/L
blankwater	SM 4500-CI G	Chlorine, Total Residual	Total	mg/L
overlyingwater	ToxWQMeasurement	Chlorine, Total Residual	Total	mg/L
runoff	SM 4500-CI G	Chlorine, Total Residual	Dissolved	mg/L
runoff	SM 4500-CI G	Chlorine, Total Residual	Total	mg/L
blankwater	EPA 625	Chloro-3- methylphenol, 4-	Total	ug/L
blankwater	EPA 625M	Chloro-3- methylphenol, 4-	Total	ug/L

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blankwater	EPA 8270Cm	Chloro-3-methylphenol, 4-	Total	ug/L
runoff	EPA 625	Chloro-3-methylphenol, 4-	Total	ug/L
runoff	EPA 625M	Chloro-3-methylphenol, 4-	Total	ug/L
runoff	EPA 8270Cm	Chloro-3-methylphenol, 4-	Total	ug/L
blankwater	EPA 524.2	Chloroethyl vinyl ether, 2-	Total	ug/L
runoff	EPA 524.2	Chloroethyl vinyl ether, 2-	Total	ug/L
blankwater	EPA 625	Chloronaphthalene, 2-	Total	ug/L
blankwater	EPA 625M	Chloronaphthalene, 2-	Total	ug/L
runoff	EPA 625	Chloronaphthalene, 2-	Total	ug/L
runoff	EPA 625M	Chloronaphthalene, 2-	Total	ug/L
blankwater	EPA 625	Chlorophenol, 2-	Total	ug/L
blankwater	EPA 625M	Chlorophenol, 2-	Total	ug/L
blankwater	EPA 8270Cm	Chlorophenol, 2-	Total	ug/L
runoff	EPA 625	Chlorophenol, 2-	Total	ug/L
runoff	EPA 625M	Chlorophenol, 2-	Total	ug/L
runoff	EPA 8270Cm	Chlorophenyl phenyl ether, 4-	Total	ug/L
blankwater	EPA 625M	Chlorophenyl phenyl ether, 4-	Total	ug/L
runoff	EPA 625	Chlorophenyl phenyl ether, 4-	Total	ug/L
runoff	EPA 625M	Chlorophenyl phenyl ether, 4-	Total	ug/L
samplewater	FieldMeasure	Chlorophyll a	Total	ug/L
samplewater	FLUORO	Chlorophyll a	Total	ug/L
samplewater	FieldMeasure	Chlorophyll, Total	Total	ug/L
benthic	FieldMeasure	ChlorophyllSampleVolume	None	mL
samplewater	FieldMeasure	ChlorophyllSampleVolume	None	mL
blankwater	EPA 525.2	Chlorpropham	Total	ug/L
runoff	EPA 525.2	Chlorpropham	Total	ug/L

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blankmatrix	EPA 8081BM	Chlorpyrifos	Total	ng/g dw
blankmatrix	EPA 8141AM	Chlorpyrifos	Total	ng/g dw
blankwater	EPA 525.2	Chlorpyrifos	Total	ug/L
blankwater	EPA 625	Chlorpyrifos	Total	ng/L
blankwater	EPA 625	Chlorpyrifos	Total	ug/L
blankwater	EPA 625M	Chlorpyrifos	Total	ug/L
labwater	EPA 8141AM	Chlorpyrifos	Total	ug/L
runoff	EPA 525.2	Chlorpyrifos	Total	ug/L
runoff	EPA 625M	Chlorpyrifos	Total	ug/L
samplewater	EPA 625	Chlorpyrifos	Dissolved	ug/L
samplewater	EPA 625	Chlorpyrifos	Total	ng/L
samplewater	EPA 625	Chlorpyrifos	Total	ug/L
samplewater	EPA 8141A	Chlorpyrifos	Total	ug/L
samplewater	EPA 8141AM	Chlorpyrifos	Total	ug/L
samplewater, particulate, <63 um	EPA 625	Chlorpyrifos	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	Chlorpyrifos	Total	ug/L
sediment	EPA 8081BM	Chlorpyrifos	Total	ng/g dw
sediment	EPA 8141AM	Chlorpyrifos	Total	ng/g dw
sediment	EPA 8270C	Chlorpyrifos	Total	ng/g dw
sediment	EPA 8270Cm	Chlorpyrifos	Total	ug/Kg dw
blankmatrix	EPA 8141AM	Chlorpyrifos methyl	Total	ng/g dw
labwater	EPA 8141AM	Chlorpyrifos methyl	Total	ug/L
samplewater	EPA 8141AM	Chlorpyrifos methyl	Total	ug/L
sediment	EPA 8141AM	Chlorpyrifos methyl	Total	ng/g dw
blankmatrix	EPA 200.8	Chromium	Dissolved	ug/L
blankmatrix	EPA 200.8	Chromium	Total	ug/g dw
blankmatrix	EPA 6010B	Chromium	Total	mg/Kg dw
blankmatrix	ICPAES	Chromium	Total	mg/Kg dw
blankmatrix	ICP-MS	Chromium	Total	mg/Kg dw
blankmatrix	ICP-MS	Chromium	Total	mg/L
blankwater	EPA 200.8	Chromium	Dissolved	ug/L
blankwater	EPA 200.8	Chromium	Total	ug/L

blankwater	EPA 200.8m	Chromium	Total	ug/L
blankwater	EPA 6010B	Chromium	Total	mg/Kg dw
blankwater	ICP-MS	Chromium	Total	mg/Kg dw
labwater	ICPAES	Chromium	Total	mg/L
labwater	ICPAES	Chromium	Total	ng/g dw
runoff	EPA 200.8	Chromium	Dissolved	ug/L
runoff	EPA 200.8	Chromium	Total	ug/L
runoff	EPA 200.8m	Chromium	Dissolved	ug/L
runoff	EPA 200.8m	Chromium	Total	ug/L
samplewater	EPA 200.8	Chromium	Dissolved	ug/L
samplewater	EPA 200.8	Chromium	Total	ug/L
sediment	EPA 200.7	Chromium	Total	mg/Kg dw
sediment	EPA 200.7	Chromium	Total	ug/L
sediment	EPA 200.8	Chromium	Total	ug/g dw
sediment	EPA 200.8	Chromium	Total	umol/g
sediment	EPA 6010B	Chromium	Total	mg/Kg dw
sediment	EPA 6010B	Chromium	Total	mg/L
sediment	EPA 6010B	Chromium	Total	ug/g dw
sediment	EPA 6020	Chromium	Total	%
sediment	EPA 6020	Chromium	Total	ug/g dw
sediment	EPA 6020	Chromium	Total	ug/g ww
sediment	EPA 6020m	Chromium	Total	mg/Kg dw
sediment	GFAA/FAA	Chromium	Total	ug/g dw
sediment	ICPAES	Chromium	Total	mg/Kg dw
sediment	ICP-MS	Chromium	Total	mg/Kg dw
sediment	ICP-MS	Chromium	Total	ng/g dw
sediment	ICP-MS	Chromium	Total	ug/g dw
SEM-Extract	EPA 200.8m	Chromium	Total	umol/g
blankwater	EPA 218.6	Chromium VI	Total	ug/L
blankwater	SM 3500-Cr D	Chromium VI	Total	ug/L
runoff	EPA 218.6	Chromium VI	Total	ug/L
runoff	SM 3500-Cr D	Chromium VI	Total	mg/L
runoff	SM 3500-Cr D	Chromium VI	Total	ug/L
blankmatrix	EPA 8270	Chrysene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Chrysene	Total	ng/g dw

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blankmatrix	GCMS	Chrysene	Total	ng/g dw
blankwater	EPA 625	Chrysene	Total	ug/L
blankwater	EPA 625M	Chrysene	Total	ug/L
blankwater	EPA 8270	Chrysene	Total	ug/Kg dw
blankwater	EPA 8270Cm	Chrysene	Total	ug/L
blankwater	GCMS	Chrysene	Total	ug/Kg dw
runoff	EPA 625	Chrysene	Total	ug/L
runoff	EPA 625M	Chrysene	Total	ug/L
runoff	EPA 8270Cm	Chrysene	Total	ug/L
sediment	EPA 8270	Chrysene	Total	%
sediment	EPA 8270	Chrysene	Total	ng/g dw
sediment	EPA 8270	Chrysene	Total	ug/Kg dw
sediment	EPA 8270C	Chrysene	Total	ng/g dw
sediment	EPA 8270C	Chrysene	Total	ng/g ww
sediment	EPA 8270C	Chrysene	Total	ug/Kg dw
sediment	EPA 8270Cm	Chrysene	Total	ug/Kg dw
sediment	EPA 8270M	Chrysene	Total	ng/g dw
sediment	GCMS	Chrysene	Total	ng/g dw
sediment	GCMS	Chrysene	Total	ug/Kg dw
sediment	Not Recorded	Chrysene	Total	%
sediment	Not Recorded	Chrysene	Total	ng/g dw
sediment	EPA 8270C	Chrysene-d12(Surrogate)	Total	ng/g dw
sediment	EPA 8270C	Chrysene-d12(Surrogate)	Total	ng/g ww
sediment	EPA 8270Cm	Chrysene-d12(Surrogate)	Total	ug/Kg dw
sediment	GCMS	Chrysene-d12(Surrogate)	Total	ng/g dw
blankmatrix	EPA 8270M	Chrysenes, C1-	Total	ng/g dw
sediment	EPA 8270M	Chrysenes, C1-	Total	ng/g dw
blankmatrix	EPA 8270M	Chrysenes, C2-	Total	ng/g dw
sediment	EPA 8270M	Chrysenes, C2-	Total	ng/g dw
blankmatrix	EPA 8270M	Chrysenes, C3-	Total	ng/g dw
sediment	EPA 8270M	Chrysenes, C3-	Total	ng/g dw
labwater	EPA 8141AM	Ciodrin	Total	ug/L

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samplewater	EPA 8141AM	Ciodrin	Total	ug/L
habitat	FieldMeasure	Circumference	None	m
sediment	Plumb, 1981, GS	Clay	<0.0039 mm	%
sediment	SM 2560 D v20,21	Clay	<0.0039 mm	%
habitat	ObservedFieldMeasure	CloudCover	None	%
blankwater	EPA 200.8	Cobalt	Dissolved	ug/L
blankwater	EPA 200.8	Cobalt	Total	ug/L
samplewater	EPA 200.8	Cobalt	Dissolved	ug/L
samplewater	EPA 200.8	Cobalt	Total	ug/L
sediment	EPA 200.8	Cobalt	Total	umol/g
sediment	EPA 6020m	Cobalt	Total	mg/Kg dw
SEM-Extract	EPA 200.8m	Cobalt	Total	umol/g
blankwater	EPA 410.4	COD	Total	mg/L
runoff	EPA 410.4	COD	Total	mg/L
blankwater	SM 9221 E	Coliform, Fecal	None	MPN/100 mL
blankwater	SM 9222 D	Coliform, Fecal	None	cfu/100mL
runoff	MTF	Coliform, Fecal	None	cfu/100mL
runoff	MTF	Coliform, Fecal	None	MPN/100 mL
runoff	SM 9221 B	Coliform, Fecal	None	MPN/100 mL
runoff	SM 9221 E	Coliform, Fecal	None	cfu/100mL
runoff	SM 9221 E	Coliform, Fecal	None	MPN/100 mL
runoff	SM 9222 B	Coliform, Fecal	None	cfu/100mL
runoff	SM 9222 B	Coliform, Fecal	None	MPN/100 mL
runoff	SM 9222 D	Coliform, Fecal	None	cfu/100mL
runoff	SM 9222 D	Coliform, Fecal	None	MPN/100 mL
runoff	SM 9230 C	Coliform, Fecal	None	cfu/100mL
samplewater	MTF	Coliform, Fecal	None	cfu/100mL
samplewater	MTF	Coliform, Fecal	None	MPN/100 mL
samplewater	SM 9221	Coliform, Fecal	None	MPN/100 mL
samplewater	SM 9221 B	Coliform, Fecal	None	MPN/100

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				mL
samplewater	SM 9221 E	Coliform, Fecal	None	cfu/100mL
samplewater	SM 9221 E	Coliform, Fecal	None	MPN/100 mL
samplewater	SM 9222 B	Coliform, Fecal	None	cfu/100mL
samplewater	SM 9222 B	Coliform, Fecal	None	MPN/100 mL
samplewater	SM 9222 D	Coliform, Fecal	None	cfu/100mL
samplewater	SM 9222 D	Coliform, Fecal	None	MPN/100 mL
samplewater	SM 9230 C	Coliform, Fecal	None	cfu/100mL
sediment	SM 9221 E	Coliform, Fecal	None	MPN/g dw
blankwater	Colilert	Coliform, Total	None	MPN/100 mL
blankwater	SM 9221 B	Coliform, Total	None	MPN/100 mL
runoff	Colilert	Coliform, Total	None	MPN/100 mL
runoff	Colilert-18	Coliform, Total	None	cfu/100mL
runoff	Colilert-18	Coliform, Total	None	MPN/100 mL
runoff	EPA 1600	Coliform, Total	None	MPN/100 mL
runoff	MTF	Coliform, Total	None	cfu/100mL
runoff	MTF	Coliform, Total	None	MPN/100 mL
runoff	SM 9221 B	Coliform, Total	None	cfu/100mL
runoff	SM 9221 B	Coliform, Total	None	MPN/100 mL
runoff	SM 9221 E	Coliform, Total	None	MPN/100 mL
runoff	SM 9222 B	Coliform, Total	None	cfu/100mL
runoff	SM 9222 B	Coliform, Total	None	MPN/100 mL
runoff	SM 9222 D	Coliform, Total	None	cfu/100mL
runoff	SM 9223 B	Coliform, Total	None	MPN/100 mL
runoff	SM 9230 C	Coliform, Total	None	cfu/100mL
samplewater	Colilert-18	Coliform, Total	None	cfu/100mL
samplewater	Colilert-18	Coliform, Total	None	MPN/100

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				mL
samplewater	EPA 1600	Coliform, Total	None	cfu/100mL
samplewater	EPA 1600	Coliform, Total	None	MPN/100 mL
samplewater	MTF	Coliform, Total	None	cfu/100mL
samplewater	MTF	Coliform, Total	None	MPN/100 mL
samplewater	SM 9221	Coliform, Total	None	MPN/100 mL
samplewater	SM 9221 B	Coliform, Total	None	cfu/100mL
samplewater	SM 9221 B	Coliform, Total	None	MPN/100 mL
samplewater	SM 9221 E	Coliform, Total	None	MPN/100 mL
samplewater	SM 9222 B	Coliform, Total	None	cfu/100mL
samplewater	SM 9222 B	Coliform, Total	None	MPN/100 mL
samplewater	SM 9222 D	Coliform, Total	None	cfu/100mL
samplewater	SM 9223	Coliform, Total	None	MPN/100 mL
samplewater	SM 9230 C	Coliform, Total	None	cfu/100mL
sediment	SM 9221 B	Coliform, Total	None	MPN/g dw
habitat	FieldObservations	CollSub_PlantDead	None	none
habitat	FieldObservations	CollSub_PlantLive	None	none
habitat	FieldObservations	CollSub_Rock	None	none
habitat	FieldObservations	CollSub_SedSoft	None	none
samplewater	FieldObservations	Color	None	none
sediment	FieldObservations	Color	None	none
habitat	FieldObservations	Commercial	None	none
benthic	FieldMeasure	CompositeVolume	None	mL
sediment	FieldObservations	Composition	None	none
habitat	FieldObservations	Construction	None	none
blankmatrix	EPA 200.8	Copper	Dissolved	ug/L
blankmatrix	EPA 200.8	Copper	Total	ug/g dw
blankmatrix	EPA 6010B	Copper	Total	mg/Kg dw
blankmatrix	ICPAES	Copper	Total	mg/Kg dw
blankmatrix	ICP-MS	Copper	Total	mg/Kg dw
blankmatrix	ICP-MS	Copper	Total	mg/L

blankmatrix	ICP-MS	Copper	Total	ug/L
blankwater	EPA 1640	Copper	Dissolved	ug/L
blankwater	EPA 1640	Copper	Total	ug/L
blankwater	EPA 200.8	Copper	Dissolved	ug/L
blankwater	EPA 200.8	Copper	Total	ug/L
blankwater	EPA 200.8m	Copper	Total	ug/L
blankwater	EPA 6010B	Copper	Total	mg/Kg dw
blankwater	ICP-MS	Copper	Total	mg/Kg dw
labwater	ICPAES	Copper	Total	mg/L
labwater	ICPAES	Copper	Total	ng/g dw
runoff	EPA 200.8	Copper	Dissolved	ug/L
runoff	EPA 200.8	Copper	Total	ug/L
runoff	EPA 200.8m	Copper	Dissolved	ug/L
runoff	EPA 200.8m	Copper	Total	ug/L
samplewater	EPA 1640	Copper	Dissolved	ug/L
samplewater	EPA 1640	Copper	Total	ug/L
samplewater	EPA 200.7	Copper	Total	ug/L
samplewater	EPA 200.8	Copper	Dissolved	mg/L
samplewater	EPA 200.8	Copper	Dissolved	ug/L
samplewater	EPA 200.8	Copper	Total	ug/L
samplewater	EPA 200.8m	Copper	Dissolved	ug/L
samplewater	EPA 200.8m	Copper	Total	ug/L
samplewater	EPA 6020	Copper	Dissolved	mg/L
sediment	EPA 200.7	Copper	Total	mg/Kg dw
sediment	EPA 200.7	Copper	Total	ug/L
sediment	EPA 200.8	Copper	Total	ug/g dw
sediment	EPA 200.8	Copper	Total	umol/g
sediment	EPA 6010B	Copper	Total	mg/Kg dw
sediment	EPA 6010B	Copper	Total	mg/L
sediment	EPA 6010B	Copper	Total	ug/g dw
sediment	EPA 6020	Copper	Total	%
sediment	EPA 6020	Copper	Total	ug/g dw
sediment	EPA 6020	Copper	Total	ug/g ww
sediment	EPA 6020m	Copper	Total	mg/Kg dw
sediment	GFAA/FAA	Copper	Total	ug/g dw

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sediment	ICPAES	Copper	Total	mg/Kg dw
sediment	ICPAES	Copper	Total	ng/g dw
sediment	ICP-MS	Copper	Total	mg/Kg dw
sediment	ICP-MS	Copper	Total	ng/g dw
sediment	ICP-MS	Copper	Total	ug/g dw
SEM-Extract	EPA 200.8m	Copper	Total	umol/g
blankwater	EPA 525.2	Coumaphos	Total	ug/L
labwater	EPA 8141AM	Coumaphos	Total	ug/L
runoff	EPA 525.2	Coumaphos	Total	ug/L
samplewater	EPA 8141AM	Coumaphos	Total	ug/L
habitat	FieldObservations	CPOM	None	none
habitat	FieldObservations	Cropland	None	none
blankwater	EPA 525.2	Cyanazine	Total	ug/L
runoff	EPA 525.2	Cyanazine	Total	ug/L
blankwater	EPA 335.4	Cyanide	Total	mg/L
runoff	EPA 335.4	Cyanide	Total	mg/L
samplewater	FieldMeasure	CyanotoxinSampleVolume	None	mL
blankmatrix	EPA 8081BM	Cyfluthrin, total	Total	ng/g dw
blankwater	EPA 625	Cyfluthrin, total	Total	ug/L
blankwater	EPA 8270	Cyfluthrin, total	Total	ug/L
blankwater	EPA 8270C	Cyfluthrin, total	Total	ug/L
labwater	EPA 8081BM	Cyfluthrin, total	Total	ug/L
samplewater	EPA 625	Cyfluthrin, total	Total	ug/L
samplewater	EPA 8081BM	Cyfluthrin, total	Total	ug/L
samplewater	EPA 8270	Cyfluthrin, total	Total	ug/L
samplewater	EPA 8270C	Cyfluthrin, total	Total	ug/L
samplewater, particulate, <63 um	EPA 625	Cyfluthrin, total	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	Cyfluthrin, total	Total	ug/L
sediment	EPA 8081BM	Cyfluthrin, total	Total	ng/g dw
sediment	EPA 8270Cm	Cyfluthrin, total	Total	ug/Kg dw
blankmatrix	EPA 8081BM	Cyhalothrin, lambda, total	Total	ng/g dw

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blankwater	EPA 625	Cyhalothrin, lambda, total	Total	ug/L
blankwater	EPA 8270	Cyhalothrin, lambda, total	Total	ug/L
blankwater	EPA 8270C	Cyhalothrin, lambda, total	Total	ug/L
labwater	EPA 8081BM	Cyhalothrin, lambda, total	Total	ug/L
samplewater	EPA 625	Cyhalothrin, lambda, total	Total	ug/L
samplewater	EPA 8081BM	Cyhalothrin, lambda, total	Total	ug/L
samplewater	EPA 8270	Cyhalothrin, lambda, total	Total	ug/L
samplewater	EPA 8270C	Cyhalothrin, lambda, total	Total	ug/L
sediment	EPA 8081BM	Cyhalothrin, lambda, total	Total	ng/g dw
sediment	EPA 8270Cm	Cyhalothrin, lambda, total	Total	ug/Kg dw
blankmatrix	EPA 8081BM	Cypermethrin, total	Total	ng/g dw
blankwater	EPA 625	Cypermethrin, total	Total	ug/L
blankwater	EPA 8270	Cypermethrin, total	Total	ug/L
blankwater	EPA 8270C	Cypermethrin, total	Total	ug/L
labwater	EPA 8081BM	Cypermethrin, total	Total	ug/L
samplewater	EPA 625	Cypermethrin, total	Total	ug/L
samplewater	EPA 8081BM	Cypermethrin, total	Total	ug/L
samplewater	EPA 8270	Cypermethrin, total	Total	ug/L
samplewater	EPA 8270C	Cypermethrin, total	Total	ug/L
samplewater, particulate, <63 um	EPA 625	Cypermethrin, total	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	Cypermethrin, total	Total	ug/L
sediment	EPA 8081BM	Cypermethrin, total	Total	ng/g dw
sediment	EPA 8270Cm	Cypermethrin, total	Total	ug/Kg dw
blankmatrix	EPA 8081BM	Dacthal	Total	ng/g dw
blankwater	EPA 515.3	Dacthal	Total	ug/L
blankwater	EPA 625M	Dacthal	Total	ug/L

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labwater	EPA 8081BM	Dacthal	Total	ug/L
runoff	EPA 515.3	Dacthal	Total	ug/L
runoff	EPA 625M	Dacthal	Total	ug/L
samplewater	EPA 8081BM	Dacthal	Total	ug/L
sediment	EPA 8081BM	Dacthal	Total	ng/g dw
sediment	EPA 8270Cm	Dacthal	Total	ug/Kg dw
habitat	FieldObservations	Dams	None	none
blankmatrix	EPA 6020m	DDD(o,p')	Total	ug/Kg dw
blankmatrix	EPA 8080	DDD(o,p')	Total	ng/g dw
blankmatrix	EPA 8081BM	DDD(o,p')	Total	ng/g dw
blankmatrix	EPA 8270	DDD(o,p')	Total	ug/Kg dw
blankmatrix	GCMS	DDD(o,p')	Total	ng/g dw
blankmatrix	GCMS	DDD(o,p')	Total	ng/g ww
blankwater	EPA 608	DDD(o,p')	Total	ug/L
blankwater	EPA 625	DDD(o,p')	Total	ug/L
blankwater	EPA 625M	DDD(o,p')	Total	ug/L
blankwater	IONGCMS	DDD(o,p')	Total	ug/Kg dw
blankwater	SW2081/8082	DDD(o,p')	Total	ug/Kg dw
labwater	EPA 8081BM	DDD(o,p')	Total	ug/L
runoff	EPA 608	DDD(o,p')	Total	ug/L
runoff	EPA 625M	DDD(o,p')	Total	ug/L
samplewater	EPA 608	DDD(o,p')	Total	ug/L
samplewater	EPA 625	DDD(o,p')	Dissolved	ug/L
samplewater	EPA 625	DDD(o,p')	Total	ug/L
samplewater	EPA 8081BM	DDD(o,p')	Total	ug/L
samplewater, particulate, <63 um	EPA 625	DDD(o,p')	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	DDD(o,p')	Total	ug/L
sediment	EPA 6020m	DDD(o,p')	Total	ng/g dw
sediment	EPA 608M	DDD(o,p')	Total	ug/Kg dw
sediment	EPA 8080	DDD(o,p')	Total	ng/g dw
sediment	EPA 8081	DDD(o,p')	Total	ng/g dw
sediment	EPA 8081A	DDD(o,p')	Total	ug/Kg dw

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sediment	EPA 8081BM	DDD(o,p')	Total	ng/g dw
sediment	EPA 8270	DDD(o,p')	Total	ug/Kg dw
sediment	EPA 8270C	DDD(o,p')	Total	ng/g dw
sediment	EPA 8270C	DDD(o,p')	Total	ng/g ww
sediment	EPA 8270Cm	DDD(o,p')	Total	ug/Kg dw
sediment	GCECD/GCMS	DDD(o,p')	Total	%
sediment	GCECD/GCMS	DDD(o,p')	Total	ng/g dw
sediment	GCMS	DDD(o,p')	Total	ng/g dw
sediment	IONGCMs	DDD(o,p')	Total	ug/Kg dw
sediment	SW2081/8082	DDD(o,p')	Total	ug/Kg dw
blankmatrix	EPA 6020m	DDD(p,p')	Total	ug/Kg dw
blankmatrix	EPA 8080	DDD(p,p')	Total	ng/g dw
blankmatrix	EPA 8081BM	DDD(p,p')	Total	ng/g dw
blankmatrix	EPA 8270	DDD(p,p')	Total	ug/Kg dw
blankmatrix	GCMS	DDD(p,p')	Total	ng/g dw
blankmatrix	GCMS	DDD(p,p')	Total	ng/g ww
blankwater	EPA 608	DDD(p,p')	Total	ug/L
blankwater	EPA 625	DDD(p,p')	Total	ug/L
blankwater	EPA 625M	DDD(p,p')	Total	ug/L
blankwater	IONGCMs	DDD(p,p')	Total	ug/Kg dw
blankwater	SW2081/8082	DDD(p,p')	Total	ug/Kg dw
labwater	EPA 8081BM	DDD(p,p')	Total	ug/L
runoff	EPA 608	DDD(p,p')	Total	ug/L
runoff	EPA 625M	DDD(p,p')	Total	ug/L
samplewater	EPA 608	DDD(p,p')	Total	ug/L
samplewater	EPA 608M	DDD(p,p')	Total	ug/L
samplewater	EPA 625	DDD(p,p')	Dissolved	ug/L
samplewater	EPA 625	DDD(p,p')	Total	ug/L
samplewater	EPA 8081BM	DDD(p,p')	Total	ug/L
samplewater, particulate, <63 um	EPA 625	DDD(p,p')	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	DDD(p,p')	Total	ug/L
sediment	EPA 6020m	DDD(p,p')	Total	ng/g dw

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sediment	EPA 608M	DDD(p,p')	Total	ug/Kg dw
sediment	EPA 8080	DDD(p,p')	Total	ng/g dw
sediment	EPA 8081	DDD(p,p')	Total	%
sediment	EPA 8081	DDD(p,p')	Total	ng/g dw
sediment	EPA 8081A	DDD(p,p')	Total	ug/Kg dw
sediment	EPA 8081BM	DDD(p,p')	Total	ng/g dw
sediment	EPA 8270	DDD(p,p')	Total	ug/Kg dw
sediment	EPA 8270C	DDD(p,p')	Total	ng/g dw
sediment	EPA 8270C	DDD(p,p')	Total	ng/g ww
sediment	EPA 8270Cm	DDD(p,p')	Total	ug/Kg dw
sediment	GCECD/GCMS	DDD(p,p')	Total	%
sediment	GCECD/GCMS	DDD(p,p')	Total	ng/g dw
sediment	GCMS	DDD(p,p')	Total	ng/g dw
sediment	IONGCMs	DDD(p,p')	Total	ug/Kg dw
sediment	SW2081/8082	DDD(p,p')	Total	ug/Kg dw
blankmatrix	EPA 8081BM	DDD(p,p')(Surrogate)	Total	% Recovery
labwater	EPA 8081BM	DDD(p,p')(Surrogate)	Total	% Recovery
samplewater	EPA 8081BM	DDD(p,p')(Surrogate)	Total	% Recovery
sediment	EPA 8081BM	DDD(p,p')(Surrogate)	Total	% Recovery
blankmatrix	EPA 6020m	DDE(o,p')	Total	ug/Kg dw
blankmatrix	EPA 8080	DDE(o,p')	Total	ng/g dw
blankmatrix	EPA 8081BM	DDE(o,p')	Total	ng/g dw
blankmatrix	EPA 8270	DDE(o,p')	Total	ug/Kg dw
blankmatrix	GCMS	DDE(o,p')	Total	ng/g dw
blankmatrix	GCMS	DDE(o,p')	Total	ng/g ww
blankwater	EPA 608	DDE(o,p')	Total	ug/L
blankwater	EPA 625	DDE(o,p')	Total	ug/L
blankwater	EPA 625M	DDE(o,p')	Total	ug/L
blankwater	IONGCMs	DDE(o,p')	Total	ug/Kg dw
blankwater	SW2081/8082	DDE(o,p')	Total	ug/Kg dw
labwater	EPA 8081BM	DDE(o,p')	Total	ug/L
runoff	EPA 608	DDE(o,p')	Total	ug/L
runoff	EPA 625M	DDE(o,p')	Total	ug/L
samplewater	EPA 608	DDE(o,p')	Total	ug/L
samplewater	EPA 625	DDE(o,p')	Dissolved	ug/L

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samplewater	EPA 625	DDE(o,p')	Total	ug/L
samplewater	EPA 8081BM	DDE(o,p')	Total	ug/L
samplewater, particulate, <63 um	EPA 625	DDE(o,p')	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	DDE(o,p')	Total	ug/L
sediment	EPA 6020m	DDE(o,p')	Total	ng/g dw
sediment	EPA 608M	DDE(o,p')	Total	ug/Kg dw
sediment	EPA 8080	DDE(o,p')	Total	ng/g dw
sediment	EPA 8081	DDE(o,p')	Total	ng/g dw
sediment	EPA 8081A	DDE(o,p')	Total	ug/Kg dw
sediment	EPA 8081BM	DDE(o,p')	Total	ng/g dw
sediment	EPA 8270	DDE(o,p')	Total	ug/Kg dw
sediment	EPA 8270C	DDE(o,p')	Total	ng/g dw
sediment	EPA 8270C	DDE(o,p')	Total	ng/g ww
sediment	EPA 8270Cm	DDE(o,p')	Total	ug/Kg dw
sediment	GCECD/GCMS	DDE(o,p')	Total	%
sediment	GCECD/GCMS	DDE(o,p')	Total	ng/g dw
sediment	GCMS	DDE(o,p')	Total	ng/g dw
sediment	IONGCMs	DDE(o,p')	Total	ug/Kg dw
sediment	SW2081/8082	DDE(o,p')	Total	ug/Kg dw
blankmatrix	EPA 6020m	DDE(p,p')	Total	ug/Kg dw
blankmatrix	EPA 8080	DDE(p,p')	Total	ng/g dw
blankmatrix	EPA 8081BM	DDE(p,p')	Total	ng/g dw
blankmatrix	EPA 8270	DDE(p,p')	Total	ug/Kg dw
blankmatrix	GCMS	DDE(p,p')	Total	ng/g dw
blankmatrix	GCMS	DDE(p,p')	Total	ng/g ww
blankwater	EPA 608	DDE(p,p')	Total	ug/L
blankwater	EPA 625	DDE(p,p')	Total	ug/L
blankwater	EPA 625M	DDE(p,p')	Total	ug/L
blankwater	IONGCMs	DDE(p,p')	Total	ug/Kg dw
blankwater	SW2081/8082	DDE(p,p')	Total	ug/Kg dw
labwater	EPA 8081BM	DDE(p,p')	Total	ug/L
runoff	EPA 608	DDE(p,p')	Total	ug/L

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runoff	EPA 625M	DDE(p,p')	Total	ug/L
samplewater	EPA 608	DDE(p,p')	Total	ug/L
samplewater	EPA 608M	DDE(p,p')	Total	ug/L
samplewater	EPA 625	DDE(p,p')	Dissolved	ug/L
samplewater	EPA 625	DDE(p,p')	Total	ug/L
samplewater	EPA 8081BM	DDE(p,p')	Total	ug/L
samplewater, particulate, <63 um	EPA 625	DDE(p,p')	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	DDE(p,p')	Total	ug/L
sediment	EPA 6020m	DDE(p,p')	Total	ng/g dw
sediment	EPA 608M	DDE(p,p')	Total	ug/Kg dw
sediment	EPA 8080	DDE(p,p')	Total	ng/g dw
sediment	EPA 8081	DDE(p,p')	Total	%
sediment	EPA 8081	DDE(p,p')	Total	ng/g dw
sediment	EPA 8081A	DDE(p,p')	Total	ug/Kg dw
sediment	EPA 8081BM	DDE(p,p')	Total	ng/g dw
sediment	EPA 8270	DDE(p,p')	Total	ug/Kg dw
sediment	EPA 8270C	DDE(p,p')	Total	ng/g dw
sediment	EPA 8270C	DDE(p,p')	Total	ng/g ww
sediment	EPA 8270Cm	DDE(p,p')	Total	ug/Kg dw
sediment	GCECD/GCMS	DDE(p,p')	Total	%
sediment	GCECD/GCMS	DDE(p,p')	Total	ng/g dw
sediment	GCMS	DDE(p,p')	Total	ng/g dw
sediment	IONGCMS	DDE(p,p')	Total	ug/Kg dw
sediment	SW2081/8082	DDE(p,p')	Total	ug/Kg dw
blankmatrix	EPA 8081BM	DDMU(p,p')	Total	ng/g dw
labwater	EPA 8081BM	DDMU(p,p')	Total	ug/L
samplewater	EPA 8081BM	DDMU(p,p')	Total	ug/L
sediment	EPA 608M	DDMU(p,p')	Total	ug/Kg dw
sediment	EPA 8081A	DDMU(p,p')	Total	ug/Kg dw
sediment	EPA 8081BM	DDMU(p,p')	Total	ng/g dw
sediment	EPA 8270Cm	DDMU(p,p')	Total	ug/Kg dw
sediment	SW2081/8082	DDMU(p,p')	Total	ug/Kg dw

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blankmatrix	EPA 6020m	DDT(o,p')	Total	ug/Kg dw
blankmatrix	EPA 8080	DDT(o,p')	Total	ng/g dw
blankmatrix	EPA 8081BM	DDT(o,p')	Total	ng/g dw
blankmatrix	EPA 8270	DDT(o,p')	Total	ug/Kg dw
blankmatrix	GCMS	DDT(o,p')	Total	ng/g dw
blankmatrix	GCMS	DDT(o,p')	Total	ng/g ww
blankwater	EPA 608	DDT(o,p')	Total	ug/L
blankwater	EPA 625	DDT(o,p')	Total	ug/L
blankwater	EPA 625M	DDT(o,p')	Total	ug/L
blankwater	IONGCMs	DDT(o,p')	Total	ug/Kg dw
blankwater	SW2081/8082	DDT(o,p')	Total	ug/Kg dw
labwater	EPA 8081BM	DDT(o,p')	Total	ug/L
runoff	EPA 608	DDT(o,p')	Total	ug/L
runoff	EPA 625M	DDT(o,p')	Total	ug/L
samplewater	EPA 608	DDT(o,p')	Total	ug/L
samplewater	EPA 625	DDT(o,p')	Dissolved	ug/L
samplewater	EPA 625	DDT(o,p')	Total	ug/L
samplewater	EPA 8081BM	DDT(o,p')	Total	ug/L
samplewater, particulate, <63 um	EPA 625	DDT(o,p')	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	DDT(o,p')	Total	ug/L
sediment	EPA 6020m	DDT(o,p')	Total	ng/g dw
sediment	EPA 608M	DDT(o,p')	Total	ug/Kg dw
sediment	EPA 8080	DDT(o,p')	Total	ng/g dw
sediment	EPA 8081	DDT(o,p')	Total	ng/g dw
sediment	EPA 8081A	DDT(o,p')	Total	ug/Kg dw
sediment	EPA 8081BM	DDT(o,p')	Total	ng/g dw
sediment	EPA 8270	DDT(o,p')	Total	ug/Kg dw
sediment	EPA 8270C	DDT(o,p')	Total	ng/g dw
sediment	EPA 8270C	DDT(o,p')	Total	ng/g ww
sediment	EPA 8270Cm	DDT(o,p')	Total	ug/Kg dw
sediment	GCECD/GCMS	DDT(o,p')	Total	%
sediment	GCECD/GCMS	DDT(o,p')	Total	ng/g dw

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sediment	GCMS	DDT(o,p')	Total	ng/g dw
sediment	IONGCMS	DDT(o,p')	Total	ug/Kg dw
sediment	SW2081/8082	DDT(o,p')	Total	ug/Kg dw
blankmatrix	EPA 6020m	DDT(p,p')	Total	ug/Kg dw
blankmatrix	EPA 8080	DDT(p,p')	Total	ng/g dw
blankmatrix	EPA 8081BM	DDT(p,p')	Total	ng/g dw
blankmatrix	EPA 8270	DDT(p,p')	Total	ug/Kg dw
blankmatrix	GCMS	DDT(p,p')	Total	ng/g dw
blankmatrix	GCMS	DDT(p,p')	Total	ng/g ww
blankwater	EPA 608	DDT(p,p')	Total	ug/L
blankwater	EPA 625	DDT(p,p')	Total	ug/L
blankwater	EPA 625M	DDT(p,p')	Total	ug/L
blankwater	IONGCMS	DDT(p,p')	Total	ug/Kg dw
blankwater	SW2081/8082	DDT(p,p')	Total	ug/Kg dw
labwater	EPA 8081BM	DDT(p,p')	Total	ug/L
runoff	EPA 608	DDT(p,p')	Total	ug/L
runoff	EPA 625M	DDT(p,p')	Total	ug/L
samplewater	EPA 608	DDT(p,p')	Total	ug/L
samplewater	EPA 608M	DDT(p,p')	Total	ug/L
samplewater	EPA 625	DDT(p,p')	Dissolved	ug/L
samplewater	EPA 625	DDT(p,p')	Total	ug/L
samplewater	EPA 8081BM	DDT(p,p')	Total	ug/L
samplewater, particulate, <63 um	EPA 625	DDT(p,p')	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	DDT(p,p')	Total	ug/L
sediment	EPA 6020m	DDT(p,p')	Total	ng/g dw
sediment	EPA 608M	DDT(p,p')	Total	ug/Kg dw
sediment	EPA 8080	DDT(p,p')	Total	ng/g dw
sediment	EPA 8081	DDT(p,p')	Total	%
sediment	EPA 8081	DDT(p,p')	Total	ng/g dw
sediment	EPA 8081A	DDT(p,p')	Total	ug/Kg dw
sediment	EPA 8081BM	DDT(p,p')	Total	ng/g dw
sediment	EPA 8270	DDT(p,p')	Total	ug/Kg dw

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sediment	EPA 8270C	DDT(p,p')	Total	ng/g dw
sediment	EPA 8270C	DDT(p,p')	Total	ng/g ww
sediment	EPA 8270Cm	DDT(p,p')	Total	ug/Kg dw
sediment	GCECD/GCMS	DDT(p,p')	Total	%
sediment	GCECD/GCMS	DDT(p,p')	Total	ng/g dw
sediment	GCMS	DDT(p,p')	Total	ng/g dw
sediment	IONGCMS	DDT(p,p')	Total	ug/Kg dw
sediment	SW2081/8082	DDT(p,p')	Total	ug/Kg dw
sediment	GCMS	Decane, 2-phenyl-	Total	ng/g dw
sediment	GCMS	Decane, 3-phenyl-	Total	ng/g dw
sediment	GCMS	Decane, 4-phenyl-	Total	ng/g dw
sediment	GCMS	Decane, 5-phenyl-	Total	ng/g dw
blankmatrix	EPA 8081BM	Deltamethrin	Total	ng/g dw
blankwater	EPA 625	Deltamethrin	Total	ug/L
blankwater	EPA 8270	Deltamethrin	Total	ug/L
blankwater	EPA 8270C	Deltamethrin	Total	ug/L
samplewater	EPA 625	Deltamethrin	Dissolved	ug/L
samplewater	EPA 625	Deltamethrin	Total	ug/L
samplewater	EPA 8270	Deltamethrin	Total	ug/L
samplewater	EPA 8270C	Deltamethrin	Total	ug/L
samplewater, particulate, <63 um	EPA 625	Deltamethrin	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	Deltamethrin	Total	ug/L
sediment	EPA 8081BM	Deltamethrin	Total	ng/g dw
sediment	EPA 8270Cm	Deltamethrin	Total	ug/Kg dw
blankmatrix	EPA 8081BM	Deltamethrin/Tralomet hrin	Total	ng/g dw
labwater	EPA 8081BM	Deltamethrin/Tralomet hrin	Total	ug/L
samplewater	EPA 8081BM	Deltamethrin/Tralomet hrin	Total	ug/L
sediment	EPA 8081BM	Deltamethrin/Tralomet hrin	Total	ng/g dw
blankwater	EPA 625M	Demeton, Total	Total	ug/L
runoff	EPA 625M	Demeton, Total	Total	ug/L

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blankwater	EPA 525.2	Demeton-O	Total	ug/L
blankwater	EPA 625	Demeton-O	Total	ng/L
blankwater	EPA 625M	Demeton-O	Total	ug/L
runoff	EPA 525.2	Demeton-O	Total	ug/L
runoff	EPA 625M	Demeton-O	Total	ug/L
samplewater	EPA 625	Demeton-O	Total	ng/L
sediment	EPA 8270C	Demeton-O	Total	ng/g dw
blankwater	EPA 525.2	Demeton-s	Total	ug/L
labwater	EPA 8141AM	Demeton-s	Total	ug/L
runoff	EPA 525.2	Demeton-s	Total	ug/L
samplewater	EPA 8141AM	Demeton-s	Total	ug/L
sediment	EPA 8270Cm	Demeton-s	Total	ug/Kg dw
samplewater	FieldMeasure	Density	None	kg/m3
samplewater	FieldMeasure	Density	None	mg/cm3
blankmatrix	EPA 8081BM	Diazinon	Total	ng/g dw
blankmatrix	EPA 8141AM	Diazinon	Total	ng/g dw
blankwater	EPA 525.2	Diazinon	Total	ug/L
blankwater	EPA 625	Diazinon	Total	ng/L
blankwater	EPA 625	Diazinon	Total	ug/L
blankwater	EPA 625M	Diazinon	Total	ug/L
labwater	EPA 8141AM	Diazinon	Total	ug/L
runoff	EPA 525.2	Diazinon	Total	ug/L
runoff	EPA 625M	Diazinon	Total	ug/L
samplewater	EPA 625	Diazinon	Dissolved	ug/L
samplewater	EPA 625	Diazinon	Total	ng/L
samplewater	EPA 625	Diazinon	Total	ug/L
samplewater	EPA 8141A	Diazinon	Total	ug/L
samplewater	EPA 8141AM	Diazinon	Total	ug/L
samplewater, particulate, <63 um	EPA 625	Diazinon	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	Diazinon	Total	ug/L
sediment	EPA 8081BM	Diazinon	Total	ng/g dw
sediment	EPA 8141AM	Diazinon	Total	ng/g dw

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sediment	EPA 8270C	Diazinon	Total	ng/g dw
sediment	EPA 8270Cm	Diazinon	Total	ug/Kg dw
blankmatrix	EPA 8270	Dibenz(a,h)anthracene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Dibenz(a,h)anthracene	Total	ng/g dw
blankmatrix	GCMS	Dibenz(a,h)anthracene	Total	ng/g dw
blankwater	EPA 625	Dibenz(a,h)anthracene	Total	ug/L
blankwater	EPA 625M	Dibenz(a,h)anthracene	Total	ug/L
blankwater	EPA 8270	Dibenz(a,h)anthracene	Total	ug/Kg dw
blankwater	EPA 8270Cm	Dibenz(a,h)anthracene	Total	ug/L
blankwater	GCMS	Dibenz(a,h)anthracene	Total	ug/Kg dw
runoff	EPA 625	Dibenz(a,h)anthracene	Total	ug/L
runoff	EPA 625M	Dibenz(a,h)anthracene	Total	ug/L
runoff	EPA 8270Cm	Dibenz(a,h)anthracene	Total	ug/L
sediment	EPA 8270	Dibenz(a,h)anthracene	Total	ng/g dw
sediment	EPA 8270	Dibenz(a,h)anthracene	Total	ug/Kg dw
sediment	EPA 8270C	Dibenz(a,h)anthracene	Total	ng/g dw
sediment	EPA 8270C	Dibenz(a,h)anthracene	Total	ng/g ww
sediment	EPA 8270C	Dibenz(a,h)anthracene	Total	ug/Kg dw
sediment	EPA 8270Cm	Dibenz(a,h)anthracene	Total	ug/Kg dw
sediment	EPA 8270M	Dibenz(a,h)anthracene	Total	ng/g dw
sediment	GCMS	Dibenz(a,h)anthracene	Total	ng/g dw
sediment	GCMS	Dibenz(a,h)anthracene	Total	ug/Kg dw
sediment	Not Recorded	Dibenz(a,h)anthracene	Total	ng/g dw
blankmatrix	EPA 8270M	Dibenzothiophene	Total	ng/g dw
blankwater	EPA 625M	Dibenzothiophene	Total	ug/L
runoff	EPA 625M	Dibenzothiophene	Total	ug/L
sediment	EPA 8270	Dibenzothiophene	Total	ng/g dw
sediment	EPA 8270C	Dibenzothiophene	Total	ng/g dw
sediment	EPA 8270Cm	Dibenzothiophene	Total	ug/Kg dw
sediment	EPA 8270M	Dibenzothiophene	Total	ng/g dw
sediment	GCMS	Dibenzothiophene	Total	ng/g dw
sediment	Not Recorded	Dibenzothiophene	Total	ng/g dw
blankmatrix	EPA 8270M	Dibenzothiophenes, C1-	Total	ng/g dw
sediment	EPA 8270M	Dibenzothiophenes, C1-	Total	ng/g dw

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blankmatrix	EPA 8270M	Dibenzothiophenes, C2-	Total	ng/g dw
sediment	EPA 8270M	Dibenzothiophenes, C2-	Total	ng/g dw
blankmatrix	EPA 8270M	Dibenzothiophenes, C3-	Total	ng/g dw
sediment	EPA 8270M	Dibenzothiophenes, C3-	Total	ng/g dw
blankwater	EPA 8260B	Dibromofluoromethane	Total	ug/L
runoff	EPA 8260B	Dibromofluoromethane	Total	ug/L
blankmatrix	EPA 8081BM	Dibromo octafluorobiphenyl(Surrogate)	Total	% Recovery
labwater	EPA 8081BM	Dibromo octafluorobiphenyl(Surrogate)	Total	% Recovery
samplewater	EPA 8081BM	Dibromo octafluorobiphenyl(Surrogate)	Total	% Recovery
sediment	EPA 8081BM	Dibromo octafluorobiphenyl(Surrogate)	Total	% Recovery
blankmatrix	EPA 8081BM	Dibutylchlorendate(Surrogate)	Total	% Recovery
labwater	EPA 8081BM	Dibutylchlorendate(Surrogate)	Total	% Recovery
samplewater	EPA 8081BM	Dibutylchlorendate(Surrogate)	Total	% Recovery
sediment	EPA 8081BM	Dibutylchlorendate(Surrogate)	Total	% Recovery
blankwater	EPA 515.3	Dicamba	Total	ug/L
blankwater	EPA 8151A	Dicamba	Total	ug/L
runoff	EPA 515.3	Dicamba	Total	ug/L
runoff	EPA 8151A	Dicamba	Total	ug/L
blankmatrix	EPA 8141AM	Dichlofenthion	Total	ng/g dw
labwater	EPA 8141AM	Dichlofenthion	Total	ug/L
samplewater	EPA 8141AM	Dichlofenthion	Total	ug/L
sediment	EPA 8141AM	Dichlofenthion	Total	ng/g dw
blankwater	EPA 625	Dichlorobenzene, 1,2-	Total	ug/L
blankwater	EPA 625M	Dichlorobenzene, 1,2-	Total	ug/L
runoff	EPA 625	Dichlorobenzene, 1,2-	Total	ug/L
runoff	EPA 625M	Dichlorobenzene, 1,2-	Total	ug/L

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blankwater	EPA 625	Dichlorobenzene, 1,3-	Total	ug/L
blankwater	EPA 625M	Dichlorobenzene, 1,3-	Total	ug/L
runoff	EPA 625	Dichlorobenzene, 1,3-	Total	ug/L
runoff	EPA 625M	Dichlorobenzene, 1,3-	Total	ug/L
blankwater	EPA 625	Dichlorobenzene, 1,4-	Total	ug/L
blankwater	EPA 625M	Dichlorobenzene, 1,4-	Total	ug/L
runoff	EPA 625	Dichlorobenzene, 1,4-	Total	ug/L
runoff	EPA 625M	Dichlorobenzene, 1,4-	Total	ug/L
		Dichlorobenzene-d4, 1,2-		
blankwater	EPA 524.2	Dichlorobenzene-d4, 1,2-	Total	ug/L
blankwater	EPA 8260B	Dichlorobenzene-d4, 1,2-	Total	ug/L
runoff	EPA 524.2	Dichlorobenzene-d4, 1,2-	Total	ug/L
runoff	EPA 8260B	Dichlorobenzene-d4, 1,2-	Total	ug/L
blankwater	EPA 625	Dichlorobenzidine,3,3'-	Total	ug/L
blankwater	EPA 625M	Dichlorobenzidine,3,3'-	Total	ug/L
runoff	EPA 625	Dichlorobenzidine,3,3'-	Total	ug/L
runoff	EPA 625M	Dichlorobenzidine,3,3'-	Total	ug/L
blankwater	EPA 515.3	Dichlorobenzoic Acid, 3,5-	Total	ug/L
runoff	EPA 515.3	Dichlorobenzoic Acid, 3,5-	Total	ug/L
blankwater	EPA 625	Dichlorophenol, 2,4-	Total	ug/L
blankwater	EPA 625M	Dichlorophenol, 2,4-	Total	ug/L
blankwater	EPA 8270Cm	Dichlorophenol, 2,4-	Total	ug/L
runoff	EPA 625	Dichlorophenol, 2,4-	Total	ug/L
runoff	EPA 625M	Dichlorophenol, 2,4-	Total	ug/L
runoff	EPA 8270Cm	Dichlorophenol, 2,4-	Total	ug/L
blankwater	EPA 515.3	Dichlorophenoxyacetic acid, 2,4-	Total	ug/L
blankwater	EPA 8151A	Dichlorophenoxyacetic acid, 2,4-	Total	ug/L
runoff	EPA 515.3	Dichlorophenoxyacetic acid, 2,4-	Total	ug/L
runoff	EPA 8151A	Dichlorophenoxyacetic acid, 2,4-	Total	ug/L
blankwater	EPA 515.3	Dichlorophenoxybutyri	Total	ug/L

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		c acid, 2,4-		
blankwater	EPA 8151A	Dichlorophenoxybutyric acid, 2,4-	Total	ug/L
runoff	EPA 515.3	Dichlorophenoxybutyric acid, 2,4-	Total	ug/L
runoff	EPA 8151A	Dichlorophenoxybutyric acid, 2,4-	Total	ug/L
blankwater	EPA 515.3	Dichlorophenylacetic Acid, 2,4-	Total	ug/L
blankwater	EPA 8151A	Dichlorophenylacetic Acid, 2,4-	Total	ug/L
runoff	EPA 515.3	Dichlorophenylacetic Acid, 2,4-	Total	ug/L
runoff	EPA 8151A	Dichlorophenylacetic Acid, 2,4-	Total	ug/L
blankwater	EPA 515.3	Dichloroprop	Total	ug/L
blankwater	EPA 8151A	Dichloroprop	Total	ug/L
runoff	EPA 515.3	Dichloroprop	Total	ug/L
runoff	EPA 8151A	Dichloroprop	Total	ug/L
blankwater	EPA 515.3	Dichloropropionic Acid, 2,2-	Total	ug/L
blankwater	EPA 8151A	Dichloropropionic Acid, 2,2-	Total	ug/L
runoff	EPA 515.3	Dichloropropionic Acid, 2,2-	Total	ug/L
runoff	EPA 8151A	Dichloropropionic Acid, 2,2-	Total	ug/L
blankwater	EPA 525.2	Dichlorvos	Total	ug/L
blankwater	EPA 625	Dichlorvos	Total	ng/L
blankwater	EPA 625M	Dichlorvos	Total	ug/L
labwater	EPA 8141AM	Dichlorvos	Total	ug/L
runoff	EPA 525.2	Dichlorvos	Total	ug/L
runoff	EPA 625M	Dichlorvos	Total	ug/L
samplewater	EPA 625	Dichlorvos	Total	ng/L
samplewater	EPA 8141AM	Dichlorvos	Total	ug/L
sediment	EPA 8270C	Dichlorvos	Total	ng/g dw
sediment	EPA 8270Cm	Dichlorvos	Total	ug/Kg dw
sediment	EPA 8270Cm	Dicofol	Total	ug/Kg dw
labwater	EPA 8141AM	Dicrotophos	Total	ug/L

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samplewater	EPA 8141AM	Dicrotophos	Total	ug/L
blankmatrix	EPA 8081BM	Dieldrin	Total	ng/g dw
blankwater	EPA 608	Dieldrin	Total	ug/L
blankwater	EPA 625	Dieldrin	Total	ug/L
blankwater	EPA 625M	Dieldrin	Total	ug/L
labwater	EPA 8081BM	Dieldrin	Total	ug/L
runoff	EPA 608	Dieldrin	Total	ug/L
runoff	EPA 625M	Dieldrin	Total	ug/L
samplewater	EPA 608	Dieldrin	Total	ug/L
samplewater	EPA 608M	Dieldrin	Total	ug/L
samplewater	EPA 625	Dieldrin	Dissolved	ug/L
samplewater	EPA 625	Dieldrin	Total	ug/L
samplewater	EPA 8081BM	Dieldrin	Total	ug/L
samplewater, particulate, <63 um	EPA 625	Dieldrin	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	Dieldrin	Total	ug/L
sediment	EPA 608M	Dieldrin	Total	ug/Kg dw
sediment	EPA 8081	Dieldrin	Total	%
sediment	EPA 8081	Dieldrin	Total	ng/g dw
sediment	EPA 8081A	Dieldrin	Total	ug/Kg dw
sediment	EPA 8081BM	Dieldrin	Total	ng/g dw
sediment	EPA 8270C	Dieldrin	Total	ng/g dw
sediment	EPA 8270C	Dieldrin	Total	ng/g ww
sediment	EPA 8270Cm	Dieldrin	Total	ug/Kg dw
sediment	GCECD/GCMS	Dieldrin	Total	%
sediment	GCECD/GCMS	Dieldrin	Total	ng/g dw
sediment	GCMS	Dieldrin	Total	ng/g dw
sediment	SW2081/8082	Dieldrin	Total	ug/Kg dw
blankwater	EPA 625	Diethyl phthalate	Total	ug/L
blankwater	EPA 625M	Diethyl phthalate	Total	ug/L
runoff	EPA 625	Diethyl phthalate	Total	ug/L
runoff	EPA 625M	Diethyl phthalate	Total	ug/L
blankwater	EPA 525.2	Dimethoate	Total	ug/L

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blankwater	EPA 625M	Dimethoate	Total	ug/L
labwater	EPA 8141AM	Dimethoate	Total	ug/L
runoff	EPA 525.2	Dimethoate	Total	ug/L
runoff	EPA 625M	Dimethoate	Total	ug/L
samplewater	EPA 8141AM	Dimethoate	Total	ug/L
sediment	EPA 8270Cm	Dimethoate	Total	ug/Kg dw
blankwater	EPA 625	Dimethyl phthalate	Total	ug/L
blankwater	EPA 625M	Dimethyl phthalate	Total	ug/L
runoff	EPA 625	Dimethyl phthalate	Total	ug/L
runoff	EPA 625M	Dimethyl phthalate	Total	ug/L
blankwater	EPA 525.2	Dimethyl-2-nitrobenzene, 1,3-	Total	ug/L
runoff	EPA 525.2	Dimethyl-2-nitrobenzene, 1,3-	Total	ug/L
blankmatrix	EPA 8270	Dimethylnaphthalene, 2,6-	Total	ug/Kg dw
blankmatrix	EPA 8270M	Dimethylnaphthalene, 2,6-	Total	ng/g dw
blankmatrix	GCMS	Dimethylnaphthalene, 2,6-	Total	ng/g dw
blankwater	EPA 625M	Dimethylnaphthalene, 2,6-	Total	ug/L
blankwater	EPA 8270	Dimethylnaphthalene, 2,6-	Total	ug/Kg dw
blankwater	GCMS	Dimethylnaphthalene, 2,6-	Total	ug/Kg dw
runoff	EPA 625M	Dimethylnaphthalene, 2,6-	Total	ug/L
sediment	EPA 8270	Dimethylnaphthalene, 2,6-	Total	ng/g dw
sediment	EPA 8270	Dimethylnaphthalene, 2,6-	Total	ug/Kg dw
sediment	EPA 8270C	Dimethylnaphthalene, 2,6-	Total	ng/g dw
sediment	EPA 8270C	Dimethylnaphthalene, 2,6-	Total	ng/g ww
sediment	EPA 8270C	Dimethylnaphthalene, 2,6-	Total	ug/Kg dw
sediment	EPA 8270Cm	Dimethylnaphthalene, 2,6-	Total	ug/Kg dw
sediment	EPA 8270M	Dimethylnaphthalene,	Total	ng/g dw

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		2,6-		
sediment	GCMS	Dimethylnaphthalene, 2,6-	Total	ng/g dw
sediment	GCMS	Dimethylnaphthalene, 2,6-	Total	ug/Kg dw
sediment	Not Recorded	Dimethylnaphthalene, 2,6-	Total	ng/g dw
blankmatrix	EPA 8270M	Dimethylphenanthrene , 3,6-	Total	ng/g dw
sediment	EPA 8270M	Dimethylphenanthrene , 3,6-	Total	ng/g dw
blankwater	EPA 625	Dimethylphenol, 2,4-	Total	ug/L
blankwater	EPA 625M	Dimethylphenol, 2,4-	Total	ug/L
blankwater	EPA 8270Cm	Dimethylphenol, 2,4-	Total	ug/L
runoff	EPA 625	Dimethylphenol, 2,4-	Total	ug/L
runoff	EPA 625M	Dimethylphenol, 2,4-	Total	ug/L
runoff	EPA 8270Cm	Dimethylphenol, 2,4-	Total	ug/L
blankwater	EPA 625	Di-n-butyl phthalate	Total	ug/L
blankwater	EPA 625M	Di-n-butyl phthalate	Total	ug/L
runoff	EPA 625	Di-n-butyl phthalate	Total	ug/L
runoff	EPA 625M	Di-n-butyl phthalate	Total	ug/L
blankwater	EPA 625	Dinitro-2-methylphenol, 4,6-	Total	ug/L
blankwater	EPA 625M	Dinitro-2-methylphenol, 4,6-	Total	ug/L
blankwater	EPA 8270Cm	Dinitro-2-methylphenol, 4,6-	Total	ug/L
runoff	EPA 625	Dinitro-2-methylphenol, 4,6-	Total	ug/L
runoff	EPA 625M	Dinitro-2-methylphenol, 4,6-	Total	ug/L
runoff	EPA 8270Cm	Dinitro-2-methylphenol, 4,6-	Total	ug/L
blankwater	EPA 625	Dinitrophenol, 2,4-	Total	ug/L
blankwater	EPA 625M	Dinitrophenol, 2,4-	Total	ug/L
blankwater	EPA 8270Cm	Dinitrophenol, 2,4-	Total	ug/L
runoff	EPA 625	Dinitrophenol, 2,4-	Total	ug/L
runoff	EPA 625M	Dinitrophenol, 2,4-	Total	ug/L
runoff	EPA 8270Cm	Dinitrophenol, 2,4-	Total	ug/L

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blankwater	EPA 625	Dinitrotoluene, 2,4-	Total	ug/L
blankwater	EPA 625M	Dinitrotoluene, 2,4-	Total	ug/L
runoff	EPA 625	Dinitrotoluene, 2,4-	Total	ug/L
runoff	EPA 625M	Dinitrotoluene, 2,4-	Total	ug/L
blankwater	EPA 625	Dinitrotoluene, 2,6-	Total	ug/L
blankwater	EPA 625M	Dinitrotoluene, 2,6-	Total	ug/L
runoff	EPA 625	Dinitrotoluene, 2,6-	Total	ug/L
runoff	EPA 625M	Dinitrotoluene, 2,6-	Total	ug/L
blankwater	EPA 625	Di-n-octyl phthalate	Total	ug/L
blankwater	EPA 625M	Di-n-octyl phthalate	Total	ug/L
runoff	EPA 625	Di-n-octyl phthalate	Total	ug/L
runoff	EPA 625M	Di-n-octyl phthalate	Total	ug/L
blankwater	EPA 515.3	Dinoseb	Total	ug/L
blankwater	EPA 8151A	Dinoseb	Total	ug/L
runoff	EPA 515.3	Dinoseb	Total	ug/L
runoff	EPA 8151A	Dinoseb	Total	ug/L
blankmatrix	EPA 8141AM	Dioxathion	Total	ng/g dw
labwater	EPA 8141AM	Dioxathion	Total	ug/L
samplewater	EPA 8141AM	Dioxathion	Total	ug/L
sediment	EPA 8141AM	Dioxathion	Total	ng/g dw
blankwater	EPA 525.2	Diphenamid	Total	ug/L
runoff	EPA 525.2	Diphenamid	Total	ug/L
blankwater	EPA 625	Diphenylhydrazine, 1,2-	Total	ug/L
runoff	EPA 625	Diphenylhydrazine, 1,2-	Total	ug/L
samplewater	FieldMeasure	Discharge	None	cfs
samplewater	Timed Filling	Discharge	None	cfs
samplewater	Velocity Area	Discharge	None	cfs
habitat	Velocity Area	DischargeMeasuremen tMethod	None	none
habitat	Velocity Area	DischargeMeasuremen tRating	None	none
blankwater	EPA 415.1M	Dissolved Organic Carbon	Dissolved	mg/L
blankwater	SM 5310 B	Dissolved Organic Carbon	Dissolved	mg/L

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samplewater	EPA 415.1M	Dissolved Organic Carbon	Dissolved	mg/L
samplewater	EPA 9060	Dissolved Organic Carbon	Dissolved	mg/L
samplewater	SM 5310 B	Dissolved Organic Carbon	Dissolved	mg/L
habitat	FieldMeasure	Distance from Bank	None	m
habitat	Velocity Area	Distance from Bank	None	cm
habitat	FieldMeasure	Distance to Bankfull	None	m
habitat	Neutral Buoyant Object	Distance, Float	None	m
habitat	FieldMeasure	Distance, Sampled	None	m
blankwater	EPA 525.2	Disulfoton	Total	ug/L
blankwater	EPA 625	Disulfoton	Total	ng/L
blankwater	EPA 625M	Disulfoton	Total	ug/L
labwater	EPA 8141AM	Disulfoton	Total	ug/L
runoff	EPA 525.2	Disulfoton	Total	ug/L
runoff	EPA 625M	Disulfoton	Total	ug/L
samplewater	EPA 625	Disulfoton	Total	ng/L
samplewater	EPA 8141AM	Disulfoton	Total	ug/L
sediment	EPA 8270C	Disulfoton	Total	ng/g dw
sediment	EPA 8270Cm	Disulfoton	Total	ug/Kg dw
sediment	GCMS	Dodecane, 2-phenyl-	Total	ng/g dw
sediment	GCMS	Dodecane, 3-phenyl-	Total	ng/g dw
sediment	GCMS	Dodecane, 4-phenyl-	Total	ng/g dw
sediment	GCMS	Dodecane, 5-phenyl-	Total	ng/g dw
sediment	GCMS	Dodecane, 6-phenyl-	Total	ng/g dw
habitat	FieldObservations	Dominant Benthic Substrate	None	none
habitat	FieldObservations	Dominant Land Use	None	none
habitat	FieldObservations	DominantSubstrate	None	none
samplewater	ELISA	Domoic Acid	Particulate	ug/L
habitat	FieldObservations	Dredging	None	none
habitat	ObservedFieldMeasure	Dry	None	%
blankwater	Colilert	E. coli	None	MPN/100 mL
blankwater	SM 9222 G	E. coli	None	cfu/100mL
runoff	Colilert	E. coli	None	MPN/100

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				mL
runoff	Colilert-18	E. coli	None	cfu/100mL
runoff	Colilert-18	E. coli	None	MPN/100 mL
runoff	MTF	E. coli	None	MPN/100 mL
runoff	SM 9221 E	E. coli	None	MPN/100 mL
runoff	SM 9222 B	E. coli	None	cfu/100mL
runoff	SM 9222 B	E. coli	None	MPN/100 mL
runoff	SM 9223 B	E. coli	None	MPN/100 mL
samplewater	Colilert-18	E. coli	None	cfu/100mL
samplewater	Colilert-18	E. coli	None	MPN/100 mL
samplewater	Colilert-18	E. coli	None	MPN/g dw
samplewater	EPA 1603M	E. coli	None	cfu/100mL
samplewater	EPA 1603M	E. coli	None	cfu/g dw
samplewater	MTF	E. coli	None	MPN/100 mL
samplewater	SM 9221 E	E. coli	None	MPN/100 mL
samplewater	SM 9222 B	E. coli	None	cfu/100mL
samplewater	SM 9222 B	E. coli	None	MPN/100 mL
samplewater	SM 9222 G	E. coli	None	cfu/100mL
samplewater	SM 9223	E. coli	None	MPN/100 mL
overlyingwater	ToxWQMeasurement	ElectricalConductivity	Total	uS/cm
samplewater	FieldMeasure	ElectricalConductivity	Total	uS/cm
habitat	FieldMeasure	Elevation Difference	First Supplemental	cm
habitat	FieldMeasure	Elevation Difference	Main	cm
habitat	FieldMeasure	Elevation Difference	Second Supplemental	cm
habitat	FieldMeasure	Elevation Difference	Third Supplemental	cm
habitat	ObservedFieldMeasure	Embeddedness	None	%
habitat	FieldMeasure	End Time	None	none
blankmatrix	EPA 8081BM	Endosulfan I	Total	ng/g dw

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blankwater	EPA 608	Endosulfan I	Total	ug/L
blankwater	EPA 625	Endosulfan I	Total	ug/L
blankwater	EPA 625M	Endosulfan I	Total	ug/L
labwater	EPA 8081BM	Endosulfan I	Total	ug/L
runoff	EPA 608	Endosulfan I	Total	ug/L
runoff	EPA 625M	Endosulfan I	Total	ug/L
samplewater	EPA 608	Endosulfan I	Total	ug/L
samplewater	EPA 608M	Endosulfan I	Total	ug/L
samplewater	EPA 625	Endosulfan I	Dissolved	ug/L
samplewater	EPA 625	Endosulfan I	Total	ug/L
samplewater	EPA 8081BM	Endosulfan I	Total	ug/L
samplewater, particulate, <63 um	EPA 625	Endosulfan I	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	Endosulfan I	Total	ug/L
sediment	EPA 608M	Endosulfan I	Total	ug/Kg dw
sediment	EPA 8081	Endosulfan I	Total	%
sediment	EPA 8081	Endosulfan I	Total	ng/g dw
sediment	EPA 8081BM	Endosulfan I	Total	ng/g dw
sediment	EPA 8270C	Endosulfan I	Total	ng/g dw
sediment	EPA 8270C	Endosulfan I	Total	ng/g ww
sediment	EPA 8270Cm	Endosulfan I	Total	ug/Kg dw
sediment	GCECD/GCMS	Endosulfan I	Total	%
sediment	GCECD/GCMS	Endosulfan I	Total	ng/g dw
sediment	GCMS	Endosulfan I	Total	ng/g dw
blankmatrix	EPA 8081BM	Endosulfan II	Total	ng/g dw
blankwater	EPA 608	Endosulfan II	Total	ug/L
blankwater	EPA 625	Endosulfan II	Total	ug/L
blankwater	EPA 625M	Endosulfan II	Total	ug/L
labwater	EPA 8081BM	Endosulfan II	Total	ug/L
runoff	EPA 608	Endosulfan II	Total	ug/L
runoff	EPA 625M	Endosulfan II	Total	ug/L
samplewater	EPA 608	Endosulfan II	Total	ug/L
samplewater	EPA 608M	Endosulfan II	Total	ug/L

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samplewater	EPA 625	Endosulfan II	Dissolved	ug/L
samplewater	EPA 625	Endosulfan II	Total	ug/L
samplewater	EPA 8081BM	Endosulfan II	Total	ug/L
samplewater, particulate, <63 um	EPA 625	Endosulfan II	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	Endosulfan II	Total	ug/L
sediment	EPA 608M	Endosulfan II	Total	ug/Kg dw
sediment	EPA 8081	Endosulfan II	Total	%
sediment	EPA 8081	Endosulfan II	Total	ng/g dw
sediment	EPA 8081BM	Endosulfan II	Total	ng/g dw
sediment	EPA 8270C	Endosulfan II	Total	ng/g dw
sediment	EPA 8270C	Endosulfan II	Total	ng/g ww
sediment	EPA 8270Cm	Endosulfan II	Total	ug/Kg dw
sediment	GCECD/GCMS	Endosulfan II	Total	%
sediment	GCECD/GCMS	Endosulfan II	Total	ng/g dw
sediment	GCMS	Endosulfan II	Total	ng/g dw
blankmatrix	EPA 8081BM	Endosulfan sulfate	Total	ng/g dw
blankwater	EPA 608	Endosulfan sulfate	Total	ug/L
blankwater	EPA 625	Endosulfan sulfate	Total	ug/L
blankwater	EPA 625M	Endosulfan sulfate	Total	ug/L
labwater	EPA 8081BM	Endosulfan sulfate	Total	ug/L
runoff	EPA 608	Endosulfan sulfate	Total	ug/L
runoff	EPA 625M	Endosulfan sulfate	Total	ug/L
samplewater	EPA 608	Endosulfan sulfate	Total	ug/L
samplewater	EPA 608M	Endosulfan sulfate	Total	ug/L
samplewater	EPA 625	Endosulfan sulfate	Dissolved	ug/L
samplewater	EPA 625	Endosulfan sulfate	Total	ug/L
samplewater	EPA 8081BM	Endosulfan sulfate	Total	ug/L
samplewater, particulate, <63 um	EPA 625	Endosulfan sulfate	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	Endosulfan sulfate	Total	ug/L

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sediment	EPA 608M	Endosulfan sulfate	Total	ug/Kg dw
sediment	EPA 8081	Endosulfan sulfate	Total	%
sediment	EPA 8081	Endosulfan sulfate	Total	ng/g dw
sediment	EPA 8081BM	Endosulfan sulfate	Total	ng/g dw
sediment	EPA 8270C	Endosulfan sulfate	Total	ng/g dw
sediment	EPA 8270C	Endosulfan sulfate	Total	ng/g ww
sediment	EPA 8270Cm	Endosulfan sulfate	Total	ug/Kg dw
sediment	GCECD/GCMS	Endosulfan sulfate	Total	%
sediment	GCECD/GCMS	Endosulfan sulfate	Total	ng/g dw
sediment	GCMS	Endosulfan sulfate	Total	ng/g dw
blankmatrix	EPA 8081BM	Endrin	Total	ng/g dw
blankwater	EPA 608	Endrin	Total	ug/L
blankwater	EPA 625	Endrin	Total	ug/L
blankwater	EPA 625M	Endrin	Total	ug/L
labwater	EPA 8081BM	Endrin	Total	ug/L
runoff	EPA 608	Endrin	Total	ug/L
runoff	EPA 625M	Endrin	Total	ug/L
samplewater	EPA 608	Endrin	Total	ug/L
samplewater	EPA 608M	Endrin	Total	ug/L
samplewater	EPA 625	Endrin	Dissolved	ug/L
samplewater	EPA 625	Endrin	Total	ug/L
samplewater	EPA 8081BM	Endrin	Total	ug/L
samplewater, particulate, <63 um	EPA 625	Endrin	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	Endrin	Total	ug/L
sediment	EPA 608M	Endrin	Total	ug/Kg dw
sediment	EPA 8081	Endrin	Total	%
sediment	EPA 8081	Endrin	Total	ng/g dw
sediment	EPA 8081BM	Endrin	Total	ng/g dw
sediment	EPA 8270C	Endrin	Total	ng/g dw
sediment	EPA 8270C	Endrin	Total	ng/g ww
sediment	EPA 8270Cm	Endrin	Total	ug/Kg dw
sediment	GCECD/GCMS	Endrin	Total	%

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sediment	GCECD/GCMS	Endrin	Total	ng/g dw
sediment	GCMS	Endrin	Total	ng/g dw
blankwater	EPA 608	Endrin Aldehyde	Total	ug/L
blankwater	EPA 625	Endrin Aldehyde	Total	ug/L
blankwater	EPA 625M	Endrin Aldehyde	Total	ug/L
labwater	EPA 8081BM	Endrin Aldehyde	Total	ug/L
runoff	EPA 608	Endrin Aldehyde	Total	ug/L
runoff	EPA 625M	Endrin Aldehyde	Total	ug/L
samplewater	EPA 608	Endrin Aldehyde	Total	ug/L
samplewater	EPA 608M	Endrin Aldehyde	Total	ug/L
samplewater	EPA 625	Endrin Aldehyde	Dissolved	ug/L
samplewater	EPA 625	Endrin Aldehyde	Total	ug/L
samplewater	EPA 8081BM	Endrin Aldehyde	Total	ug/L
samplewater, particulate, <63 um	EPA 625	Endrin Aldehyde	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	Endrin Aldehyde	Total	ug/L
sediment	EPA 608M	Endrin Aldehyde	Total	ug/Kg dw
sediment	EPA 8270C	Endrin Aldehyde	Total	ng/g dw
sediment	EPA 8270Cm	Endrin Aldehyde	Total	ug/Kg dw
blankwater	EPA 625	Endrin Ketone	Total	ug/L
blankwater	EPA 625M	Endrin Ketone	Total	ug/L
labwater	EPA 8081BM	Endrin Ketone	Total	ug/L
runoff	EPA 625M	Endrin Ketone	Total	ug/L
samplewater	EPA 608	Endrin Ketone	Total	ug/L
samplewater	EPA 625	Endrin Ketone	Dissolved	ug/L
samplewater	EPA 625	Endrin Ketone	Total	ug/L
samplewater	EPA 8081BM	Endrin Ketone	Total	ug/L
samplewater, particulate, <63 um	EPA 625	Endrin Ketone	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	Endrin Ketone	Total	ug/L
sediment	EPA 8270C	Endrin Ketone	Total	ng/g dw

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sample	Method	Contaminant	Total	Unit
sediment	EPA 8270Cm	Endrin Ketone		ug/Kg dw
blankwater	Enterolert	Enterococcus	None	MPN/100 mL
blankwater	SM 9230 B	Enterococcus	None	MPN/100 mL
runoff	Enterolert	Enterococcus	None	cfu/100mL
runoff	Enterolert	Enterococcus	None	MPN/100 mL
runoff	EPA 1600	Enterococcus	None	cfu/100mL
runoff	EPA 1600	Enterococcus	None	MPN/100 mL
runoff	MTF	Enterococcus	None	cfu/100mL
runoff	MTF	Enterococcus	None	MPN/100 mL
runoff	SM 9222 B	Enterococcus	None	cfu/100mL
runoff	SM 9222 B	Enterococcus	None	MPN/100 mL
runoff	SM 9222 D	Enterococcus	None	cfu/100mL
runoff	SM 9230 B	Enterococcus	None	MPN/100 mL
runoff	SM 9230 C	Enterococcus	None	cfu/100mL
runoff	SM 9230 C	Enterococcus	None	MPN/100 mL
samplewater	Colilert-18	Enterococcus	None	MPN/100 mL
samplewater	Enterolert	Enterococcus	None	cfu/100mL
samplewater	Enterolert	Enterococcus	None	MPN/100 mL
samplewater	Enterolert	Enterococcus	None	MPN/g dw
samplewater	EPA 1600	Enterococcus	None	cfu/100mL
samplewater	EPA 1600	Enterococcus	None	cfu/g dw
samplewater	EPA 1600	Enterococcus	None	MPN/100 mL
samplewater	MTF	Enterococcus	None	cfu/100mL
samplewater	MTF	Enterococcus	None	MPN/100 mL
samplewater	Not Recorded	Enterococcus	None	NR
samplewater	qPCR (Scorpion)	Enterococcus	None	CE/100 mL
samplewater	qPCR (Taqman)	Enterococcus	None	CE/100 mL

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samplewater	SM 9221	Enterococcus	None	MPN/100 mL
samplewater	SM 9222 B	Enterococcus	None	cfu/100mL
samplewater	SM 9222 B	Enterococcus	None	MPN/100 mL
samplewater	SM 9222 C	Enterococcus	None	cfu/100mL
samplewater	SM 9222 D	Enterococcus	None	cfu/100mL
samplewater	SM 9230 B	Enterococcus	None	MPN/100 mL
samplewater	SM 9230 C	Enterococcus	None	cfu/100mL
samplewater	SM 9230 C	Enterococcus	None	MPN/100 mL
sediment	Enterolert	Enterococcus	None	MPN/g dw
blankwater	EPA 525.2	EPTC	Total	ug/L
runoff	EPA 525.2	EPTC	Total	ug/L
blankmatrix	EPA 8081BM	Esfenvalerate/Fenvalerate, total	Total	ng/g dw
blankwater	EPA 625	Esfenvalerate/Fenvalerate, total	Total	ug/L
blankwater	EPA 8270	Esfenvalerate/Fenvalerate, total	Total	ug/L
blankwater	EPA 8270C	Esfenvalerate/Fenvalerate, total	Total	ug/L
labwater	EPA 8081BM	Esfenvalerate/Fenvalerate, total	Total	ug/L
samplewater	EPA 625	Esfenvalerate/Fenvalerate, total	Total	ug/L
samplewater	EPA 8081BM	Esfenvalerate/Fenvalerate, total	Total	ug/L
samplewater	EPA 8270	Esfenvalerate/Fenvalerate, total	Total	ug/L
samplewater	EPA 8270C	Esfenvalerate/Fenvalerate, total	Total	ug/L
sediment	EPA 8081BM	Esfenvalerate/Fenvalerate, total	Total	ng/g dw
sediment	EPA 8270Cm	Esfenvalerate/Fenvalerate, total	Total	ug/Kg dw
blankmatrix	EPA 8141AM	Ethion	Total	ng/g dw
labwater	EPA 8141AM	Ethion	Total	ug/L
samplewater	EPA 8141AM	Ethion	Total	ug/L
sediment	EPA 8141AM	Ethion	Total	ng/g dw

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blankmatrix	EPA 8141AM	Ethoprop	Total	ng/g dw
blankwater	EPA 525.2	Ethoprop	Total	ug/L
blankwater	EPA 625	Ethoprop	Total	ng/L
blankwater	EPA 625M	Ethoprop	Total	ug/L
labwater	EPA 8141AM	Ethoprop	Total	ug/L
runoff	EPA 525.2	Ethoprop	Total	ug/L
runoff	EPA 625M	Ethoprop	Total	ug/L
samplewater	EPA 625	Ethoprop	Total	ng/L
samplewater	EPA 8141AM	Ethoprop	Total	ug/L
sediment	EPA 8141AM	Ethoprop	Total	ng/g dw
sediment	EPA 8270C	Ethoprop	Total	ng/g dw
sediment	EPA 8270Cm	Ethoprop	Total	ug/Kg dw
habitat	FieldObservations	Evidence of Fire	None	none
habitat	FieldObservations	Evidence of Fire Intensity	None	none
habitat	FieldObservations	Evidence of Recent Rainfall	None	none
labwater	EPA 8141AM	Famphur	Total	ug/L
samplewater	EPA 8141AM	Famphur	Total	ug/L
blankmatrix	EPA 8141AM	Fenchlorphos	Total	ng/g dw
blankwater	EPA 525.2	Fenchlorphos	Total	ug/L
blankwater	EPA 625	Fenchlorphos	Total	ng/L
blankwater	EPA 625M	Fenchlorphos	Total	ug/L
labwater	EPA 8141AM	Fenchlorphos	Total	ug/L
runoff	EPA 525.2	Fenchlorphos	Total	ug/L
runoff	EPA 625M	Fenchlorphos	Total	ug/L
samplewater	EPA 625	Fenchlorphos	Total	ng/L
samplewater	EPA 8141AM	Fenchlorphos	Total	ug/L
sediment	EPA 8141AM	Fenchlorphos	Total	ng/g dw
sediment	EPA 8270C	Fenchlorphos	Total	ng/g dw
sediment	EPA 8270Cm	Fenchlorphos	Total	ug/Kg dw
blankmatrix	EPA 8141AM	Fenitrothion	Total	ng/g dw
labwater	EPA 8141AM	Fenitrothion	Total	ug/L
samplewater	EPA 8141AM	Fenitrothion	Total	ug/L
sediment	EPA 8141AM	Fenitrothion	Total	ng/g dw
blankmatrix	EPA 8081BM	Fenpropothrin	Total	ng/g dw

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labwater	EPA 8081BM	Fenpropathrin	Total	ug/L
samplewater	EPA 8081BM	Fenpropathrin	Total	ug/L
sediment	EPA 8081BM	Fenpropathrin	Total	ng/g dw
sediment	EPA 8270Cm	Fenpropathrin	Total	ug/Kg dw
blankwater	EPA 525.2	Fensulfothion	Total	ug/L
blankwater	EPA 625	Fensulfothion	Total	ng/L
blankwater	EPA 625M	Fensulfothion	Total	ug/L
labwater	EPA 8141AM	Fensulfothion	Total	ug/L
runoff	EPA 525.2	Fensulfothion	Total	ug/L
runoff	EPA 625M	Fensulfothion	Total	ug/L
samplewater	EPA 625	Fensulfothion	Total	ng/L
samplewater	EPA 8141AM	Fensulfothion	Total	ug/L
sediment	EPA 8270C	Fensulfothion	Total	ng/g dw
sediment	EPA 8270Cm	Fensulfothion	Total	ug/Kg dw
blankwater	EPA 525.2	Fenthion	Total	ug/L
blankwater	EPA 625	Fenthion	Total	ng/L
blankwater	EPA 625M	Fenthion	Total	ug/L
labwater	EPA 8141AM	Fenthion	Total	ug/L
runoff	EPA 525.2	Fenthion	Total	ug/L
runoff	EPA 625M	Fenthion	Total	ug/L
samplewater	EPA 625	Fenthion	Total	ng/L
samplewater	EPA 8141AM	Fenthion	Total	ug/L
sediment	EPA 8270C	Fenthion	Total	ng/g dw
sediment	EPA 8270Cm	Fenthion	Total	ug/Kg dw
Not Applicable	None	Fertilization	None	%
habitat	Timed Filling	Filling Time	None	seconds
labwater	EPA 619M	Fipronil	Total	ug/L
samplewater	EPA 619M	Fipronil	Total	ug/L
labwater	EPA 619M	Fipronil Desulfinyl	Total	ug/L
samplewater	EPA 619M	Fipronil Desulfinyl	Total	ug/L
labwater	EPA 619M	Fipronil Sulfide	Total	ug/L
samplewater	EPA 619M	Fipronil Sulfide	Total	ug/L
labwater	EPA 619M	Fipronil Sulfone	Total	ug/L
samplewater	EPA 619M	Fipronil Sulfone	Total	ug/L
habitat	FieldObservations	Fish Cover Artificial	None	none

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		Structures		
habitat	FieldObservations	Fish Cover Boulders	None	none
habitat	FieldObservations	Fish Cover Filamentous Algae	None	none
habitat	FieldObservations	Fish Cover Live Trees/Roots	None	none
habitat	FieldObservations	Fish Cover Macrophytes	None	none
habitat	FieldObservations	Fish Cover Overhang.Veg	None	none
habitat	FieldObservations	Fish Cover Undercut Banks	None	none
habitat	FieldObservations	Fish Cover Woody Debris <0.3 m	None	none
habitat	FieldObservations	Fish Cover Woody Debris >0.3 m	None	none
habitat	FieldObservations	Fish Stocking	None	none
habitat	Neutral Buoyant Object	Float Time	None	seconds
blankmatrix	EPA 8270	Fluoranthene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Fluoranthene	Total	ng/g dw
blankmatrix	GCMS	Fluoranthene	Total	ng/g dw
blankwater	EPA 625	Fluoranthene	Total	ug/L
blankwater	EPA 625M	Fluoranthene	Total	ug/L
blankwater	EPA 8270	Fluoranthene	Total	ug/Kg dw
blankwater	EPA 8270Cm	Fluoranthene	Total	ug/L
blankwater	GCMS	Fluoranthene	Total	ug/Kg dw
runoff	EPA 625	Fluoranthene	Total	ug/L
runoff	EPA 625M	Fluoranthene	Total	ug/L
runoff	EPA 8270Cm	Fluoranthene	Total	ug/L
sediment	EPA 8270	Fluoranthene	Total	%
sediment	EPA 8270	Fluoranthene	Total	ng/g dw
sediment	EPA 8270	Fluoranthene	Total	ug/Kg dw
sediment	EPA 8270C	Fluoranthene	Total	ng/g dw
sediment	EPA 8270C	Fluoranthene	Total	ng/g ww
sediment	EPA 8270C	Fluoranthene	Total	ug/Kg dw
sediment	EPA 8270Cm	Fluoranthene	Total	ug/Kg dw
sediment	EPA 8270M	Fluoranthene	Total	ng/g dw
sediment	GCMS	Fluoranthene	Total	ng/g dw

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sediment	GCMS	Fluoranthene	Total	ug/Kg dw
sediment	Not Recorded	Fluoranthene	Total	ng/g dw
blankmatrix	EPA 8270M	Fluoranthene/Pyrenes, C1-	Total	ng/g dw
sediment	EPA 8270M	Fluoranthene/Pyrenes, C1-	Total	ng/g dw
blankmatrix	EPA 8270	Fluorene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Fluorene	Total	ng/g dw
blankmatrix	GCMS	Fluorene	Total	ng/g dw
blankwater	EPA 625	Fluorene	Total	ug/L
blankwater	EPA 625M	Fluorene	Total	ug/L
blankwater	EPA 8270	Fluorene	Total	ug/Kg dw
blankwater	EPA 8270Cm	Fluorene	Total	ug/L
blankwater	GCMS	Fluorene	Total	ug/Kg dw
runoff	EPA 625	Fluorene	Total	ug/L
runoff	EPA 625M	Fluorene	Total	ug/L
runoff	EPA 8270Cm	Fluorene	Total	ug/L
sediment	EPA 8270	Fluorene	Total	%
sediment	EPA 8270	Fluorene	Total	ng/g dw
sediment	EPA 8270	Fluorene	Total	ug/Kg dw
sediment	EPA 8270C	Fluorene	Total	ng/g dw
sediment	EPA 8270C	Fluorene	Total	ng/g ww
sediment	EPA 8270C	Fluorene	Total	ug/Kg dw
sediment	EPA 8270Cm	Fluorene	Total	ug/Kg dw
sediment	EPA 8270M	Fluorene	Total	ng/g dw
sediment	GCMS	Fluorene	Total	ng/g dw
sediment	GCMS	Fluorene	Total	ug/Kg dw
sediment	Not Recorded	Fluorene	Total	ng/g dw
sediment	EPA 8270	Fluorene-d10(Surrogate)	Total	%
blankmatrix	EPA 8270M	Fluorenes, C1-	Total	ng/g dw
sediment	EPA 8270M	Fluorenes, C1-	Total	ng/g dw
blankmatrix	EPA 8270M	Fluorenes, C2-	Total	ng/g dw
sediment	EPA 8270M	Fluorenes, C2-	Total	ng/g dw
blankmatrix	EPA 8270M	Fluorenes, C3-	Total	ng/g dw
sediment	EPA 8270M	Fluorenes, C3-	Total	ng/g dw

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samplewater	FieldMeasure	Fluorescence	Total	none
samplewater	FieldMeasure	Fluorescence	Total	ug/L
blankwater	EPA 300.0	Fluoride	Total	mg/L
runoff	EPA 300.0	Fluoride	Total	mg/L
blankwater	EPA 625	Fluorobiphenyl, 2-	Total	ug/L
blankwater	EPA 8270Cm	Fluorobiphenyl, 2-	Total	ug/L
runoff	EPA 625	Fluorobiphenyl, 2-	Total	ug/L
runoff	EPA 8270Cm	Fluorobiphenyl, 2-	Total	ug/L
sediment	EPA 8270	Fluorobiphenyl, 2- (Surrogate)	Total	ug/Kg dw
sediment	EPA 8270Cm	Fluorobiphenyl, 2- (Surrogate)	Total	ug/Kg dw
blankwater	EPA 625	Fluorophenol, 2-	Total	ug/L
blankwater	EPA 8270Cm	Fluorophenol, 2-	Total	ug/L
runoff	EPA 625	Fluorophenol, 2-	Total	ug/L
runoff	EPA 8270Cm	Fluorophenol, 2-	Total	ug/L
blankwater	EPA 625	Fluvalinate	Total	ug/L
samplewater	EPA 625	Fluvalinate	Total	ug/L
sediment	EPA 8270Cm	Fluvalinate	Total	ug/Kg dw
blankmatrix	EPA 8141AM	Fonofos	Total	ng/g dw
labwater	EPA 8141AM	Fonofos	Total	ug/L
samplewater	EPA 8141AM	Fonofos	Total	ug/L
sediment	EPA 8141AM	Fonofos	Total	ng/g dw
habitat	FieldObservations	Forest Dominant Age Class	None	none
samplewater	FieldMeasure	GageHeight	None	ft
Not Applicable	None	Germination	None	%
habitat	ObservedFieldMeasure	Glide	None	%
habitat	FieldObservations	Glide/Pool Bank Stability	None	none
habitat	FieldObservations	Glide/Pool Channel Alteration	None	none
habitat	FieldObservations	Glide/Pool Channel Flow Status	None	none
habitat	FieldObservations	Glide/Pool Channel Sinuosity	None	none
habitat	FieldObservations	Glide/Pool Epifaunal Substrate	None	none

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habitat	FieldObservations	Glide/Pool Pool Substrate	None	none
habitat	FieldObservations	Glide/Pool Pool Variability	None	none
habitat	FieldObservations	Glide/Pool Riparian Zone Width	None	none
habitat	FieldObservations	Glide/Pool Sediment Deposition	None	none
habitat	FieldObservations	Glide/Pool Vegetative Protection	None	none
blankwater	EPA 547	Glyphosate	Total	ug/L
blankwater	EPA 547M	Glyphosate	Total	ug/L
labwater	EPA 547	Glyphosate	Total	ug/L
runoff	EPA 547	Glyphosate	Total	ug/L
runoff	EPA 547M	Glyphosate	Total	ug/L
samplewater	EPA 547	Glyphosate	Total	ug/L
sediment	Plumb, 1981, GS	Granule	2.0 to <4.0 mm	%
habitat	FieldObservations	Grazing_Recent	None	none
Not Applicable	None	Growth (length)	None	cm
Not Applicable	None	Growth (wt/surv indiv)	None	mg/ind
habitat	FieldObservations	HabitatType	None	none
blankwater	QC 10301311B	Hardness as CaCO3	Total	mg/L
blankwater	SM 2340 B	Hardness as CaCO3	Total	mg/L
overlyingwater	ToxWQMeasurement	Hardness as CaCO3	Total	mg/L
runoff	EPA 200.7	Hardness as CaCO3	Total	mg/L
runoff	SM 2340 B	Hardness as CaCO3	Total	mg/L
samplewater	EPA 200.7	Hardness as CaCO3	Total	mg/L
samplewater	QC 10301311B	Hardness as CaCO3	Total	mg/L
samplewater	SM 2340 B	Hardness as CaCO3	Total	mg/L
blankmatrix	EPA 8081BM	HCH, alpha	Total	ng/g dw
blankwater	EPA 608	HCH, alpha	Total	ug/L
blankwater	EPA 625	HCH, alpha	Total	ug/L
blankwater	EPA 625M	HCH, alpha	Total	ug/L
labwater	EPA 8081BM	HCH, alpha	Total	ug/L
runoff	EPA 608	HCH, alpha	Total	ug/L
runoff	EPA 625M	HCH, alpha	Total	ug/L
samplewater	EPA 608	HCH, alpha	Total	ug/L

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samplewater	EPA 608M	HCH, alpha	Total	ug/L
samplewater	EPA 625	HCH, alpha	Dissolved	ug/L
samplewater	EPA 625	HCH, alpha	Total	ug/L
samplewater	EPA 8081BM	HCH, alpha	Total	ug/L
samplewater, particulate, <63 um	EPA 625	HCH, alpha	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	HCH, alpha	Total	ug/L
sediment	EPA 608M	HCH, alpha	Total	ug/Kg dw
sediment	EPA 8081BM	HCH, alpha	Total	ng/g dw
sediment	EPA 8270C	HCH, alpha	Total	ng/g dw
sediment	EPA 8270Cm	HCH, alpha	Total	ug/Kg dw
blankmatrix	EPA 8081BM	HCH, beta	Total	ng/g dw
blankwater	EPA 608	HCH, beta	Total	ug/L
blankwater	EPA 625	HCH, beta	Total	ug/L
blankwater	EPA 625M	HCH, beta	Total	ug/L
labwater	EPA 8081BM	HCH, beta	Total	ug/L
runoff	EPA 608	HCH, beta	Total	ug/L
runoff	EPA 625M	HCH, beta	Total	ug/L
samplewater	EPA 608	HCH, beta	Total	ug/L
samplewater	EPA 608M	HCH, beta	Total	ug/L
samplewater	EPA 625	HCH, beta	Dissolved	ug/L
samplewater	EPA 625	HCH, beta	Total	ug/L
samplewater	EPA 8081BM	HCH, beta	Total	ug/L
samplewater, particulate, <63 um	EPA 625	HCH, beta	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	HCH, beta	Total	ug/L
sediment	EPA 608M	HCH, beta	Total	ug/Kg dw
sediment	EPA 8081BM	HCH, beta	Total	ng/g dw
sediment	EPA 8270C	HCH, beta	Total	ng/g dw
sediment	EPA 8270Cm	HCH, beta	Total	ug/Kg dw
blankwater	EPA 608	HCH, delta	Total	ug/L

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blankwater	EPA 625	HCH, delta	Total	ug/L
blankwater	EPA 625M	HCH, delta	Total	ug/L
runoff	EPA 608	HCH, delta	Total	ug/L
runoff	EPA 625M	HCH, delta	Total	ug/L
samplewater	EPA 608	HCH, delta	Total	ug/L
samplewater	EPA 608M	HCH, delta	Total	ug/L
samplewater	EPA 625	HCH, delta	Dissolved	ug/L
samplewater	EPA 625	HCH, delta	Total	ug/L
samplewater, particulate, <63 um	EPA 625	HCH, delta	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	HCH, delta	Total	ug/L
sediment	EPA 608M	HCH, delta	Total	ug/Kg dw
sediment	EPA 8270C	HCH, delta	Total	ng/g dw
sediment	EPA 8270Cm	HCH, delta	Total	ug/Kg dw
blankmatrix	EPA 8081BM	HCH, gamma	Total	ng/g dw
blankwater	EPA 608	HCH, gamma	Total	ug/L
blankwater	EPA 625	HCH, gamma	Total	ug/L
blankwater	EPA 625M	HCH, gamma	Total	ug/L
labwater	EPA 8081BM	HCH, gamma	Total	ug/L
runoff	EPA 608	HCH, gamma	Total	ug/L
runoff	EPA 625M	HCH, gamma	Total	ug/L
samplewater	EPA 608	HCH, gamma	Total	ug/L
samplewater	EPA 608M	HCH, gamma	Total	ug/L
samplewater	EPA 625	HCH, gamma	Dissolved	ug/L
samplewater	EPA 625	HCH, gamma	Total	ug/L
samplewater	EPA 8081BM	HCH, gamma	Total	ug/L
samplewater, particulate, <63 um	EPA 625	HCH, gamma	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	HCH, gamma	Total	ug/L
sediment	EPA 608M	HCH, gamma	Total	ug/Kg dw
sediment	EPA 8081	HCH, gamma	Total	%

sediment	EPA 8081	HCH, gamma	Total	ng/g dw
sediment	EPA 8081BM	HCH, gamma	Total	ng/g dw
sediment	EPA 8270C	HCH, gamma	Total	ng/g dw
sediment	EPA 8270C	HCH, gamma	Total	ng/g ww
sediment	EPA 8270Cm	HCH, gamma	Total	ug/Kg dw
sediment	GCECD/GCMS	HCH, gamma	Total	ng/g dw
sediment	GCMS	HCH, gamma	Total	ng/g dw
blankmatrix	EPA 8081BM	Heptachlor	Total	ng/g dw
blankwater	EPA 608	Heptachlor	Total	ug/L
blankwater	EPA 625M	Heptachlor	Total	ug/L
labwater	EPA 8081BM	Heptachlor	Total	ug/L
runoff	EPA 608	Heptachlor	Total	ug/L
runoff	EPA 625M	Heptachlor	Total	ug/L
samplewater	EPA 8081BM	Heptachlor	Total	ug/L
sediment	EPA 608M	Heptachlor	Total	ug/Kg dw
sediment	EPA 8081	Heptachlor	Total	%
sediment	EPA 8081	Heptachlor	Total	ng/g dw
sediment	EPA 8081BM	Heptachlor	Total	ng/g dw
sediment	EPA 8270C	Heptachlor	Total	ng/g dw
sediment	EPA 8270C	Heptachlor	Total	ng/g ww
sediment	EPA 8270Cm	Heptachlor	Total	ug/Kg dw
sediment	GCECD/GCMS	Heptachlor	Total	%
sediment	GCECD/GCMS	Heptachlor	Total	ng/g dw
sediment	GCMS	Heptachlor	Total	ng/g dw
blankmatrix	EPA 8081BM	Heptachlor epoxide	Total	ng/g dw
blankwater	EPA 608	Heptachlor epoxide	Total	ug/L
blankwater	EPA 625M	Heptachlor epoxide	Total	ug/L
labwater	EPA 8081BM	Heptachlor epoxide	Total	ug/L
runoff	EPA 608	Heptachlor epoxide	Total	ug/L
runoff	EPA 625M	Heptachlor epoxide	Total	ug/L
samplewater	EPA 8081BM	Heptachlor epoxide	Total	ug/L
sediment	EPA 608M	Heptachlor epoxide	Total	ug/Kg dw
sediment	EPA 8081	Heptachlor epoxide	Total	ng/g dw
sediment	EPA 8081BM	Heptachlor epoxide	Total	ng/g dw
sediment	EPA 8270C	Heptachlor epoxide	Total	ng/g dw

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sediment	EPA 8270C	Heptachlor epoxide	Total	ng/g ww
sediment	EPA 8270Cm	Heptachlor epoxide	Total	ug/Kg dw
sediment	GCECD/GCMS	Heptachlor epoxide	Total	%
sediment	GCECD/GCMS	Heptachlor epoxide	Total	ng/g dw
sediment	GCMS	Heptachlor epoxide	Total	ng/g dw
blankmatrix	EPA 8081BM	Hexachlorobenzene	Total	ng/g dw
blankwater	EPA 625	Hexachlorobenzene	Total	ug/L
blankwater	EPA 625M	Hexachlorobenzene	Total	ug/L
labwater	EPA 8081BM	Hexachlorobenzene	Total	ug/L
runoff	EPA 625	Hexachlorobenzene	Total	ug/L
runoff	EPA 625M	Hexachlorobenzene	Total	ug/L
samplewater	EPA 8081BM	Hexachlorobenzene	Total	ug/L
sediment	EPA 8081	Hexachlorobenzene	Total	ng/g dw
sediment	EPA 8081BM	Hexachlorobenzene	Total	ng/g dw
sediment	EPA 8270C	Hexachlorobenzene	Total	ng/g dw
sediment	EPA 8270C	Hexachlorobenzene	Total	ng/g ww
sediment	EPA 8270Cm	Hexachlorobenzene	Total	ug/Kg dw
sediment	GCECD/GCMS	Hexachlorobenzene	Total	%
sediment	GCECD/GCMS	Hexachlorobenzene	Total	ng/g dw
sediment	GCMS	Hexachlorobenzene	Total	ng/g dw
blankwater	EPA 625	Hexachlorobutadiene	Total	ug/L
blankwater	EPA 625M	Hexachlorobutadiene	Total	ug/L
runoff	EPA 625	Hexachlorobutadiene	Total	ug/L
runoff	EPA 625M	Hexachlorobutadiene	Total	ug/L
blankwater	EPA 625	Hexachlorocyclopentadiene	Total	ug/L
blankwater	EPA 625M	Hexachlorocyclopentadiene	Total	ug/L
runoff	EPA 625	Hexachlorocyclopentadiene	Total	ug/L
runoff	EPA 625M	Hexachlorocyclopentadiene	Total	ug/L
blankwater	EPA 625	Hexachloroethane	Total	ug/L
blankwater	EPA 625M	Hexachloroethane	Total	ug/L
runoff	EPA 625	Hexachloroethane	Total	ug/L
runoff	EPA 625M	Hexachloroethane	Total	ug/L

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habitat	FieldObservations	Hiking Trails	None	none
habitat	FieldMeasure	Hydraulic Height	None	m
habitat	FieldObservations	Hydroperiod	None	none
habitat	FieldMeasure	Incised Height	None	m
habitat	FieldMeasure	Increment	None	m
blankmatrix	EPA 8270	Indeno(1,2,3-c,d)pyrene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Indeno(1,2,3-c,d)pyrene	Total	ng/g dw
blankmatrix	GCMS	Indeno(1,2,3-c,d)pyrene	Total	ng/g dw
blankwater	EPA 625	Indeno(1,2,3-c,d)pyrene	Total	ug/L
blankwater	EPA 625M	Indeno(1,2,3-c,d)pyrene	Total	ug/L
blankwater	EPA 8270	Indeno(1,2,3-c,d)pyrene	Total	ug/Kg dw
blankwater	EPA 8270Cm	Indeno(1,2,3-c,d)pyrene	Total	ug/L
blankwater	GCMS	Indeno(1,2,3-c,d)pyrene	Total	ug/Kg dw
runoff	EPA 625	Indeno(1,2,3-c,d)pyrene	Total	ug/L
runoff	EPA 625M	Indeno(1,2,3-c,d)pyrene	Total	ug/L
runoff	EPA 8270Cm	Indeno(1,2,3-c,d)pyrene	Total	ug/L
sediment	EPA 8270	Indeno(1,2,3-c,d)pyrene	Total	ng/g dw
sediment	EPA 8270	Indeno(1,2,3-c,d)pyrene	Total	ug/Kg dw
sediment	EPA 8270C	Indeno(1,2,3-c,d)pyrene	Total	ng/g dw
sediment	EPA 8270C	Indeno(1,2,3-c,d)pyrene	Total	ng/g ww
sediment	EPA 8270C	Indeno(1,2,3-c,d)pyrene	Total	ug/Kg dw
sediment	EPA 8270Cm	Indeno(1,2,3-c,d)pyrene	Total	ug/Kg dw
sediment	EPA 8270M	Indeno(1,2,3-c,d)pyrene	Total	ng/g dw
sediment	GCMS	Indeno(1,2,3-	Total	ng/g dw

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		c,d)pyrene		
sediment	GCMS	Indeno(1,2,3-c,d)pyrene	Total	ug/Kg dw
sediment	Not Recorded	Indeno(1,2,3-c,d)pyrene	Total	ng/g dw
habitat	FieldObservations	Industrial Plants	None	none
blankmatrix	EPA 200.8	Iron	Total	ug/g dw
blankmatrix	EPA 6010B	Iron	Total	mg/Kg dw
blankmatrix	ICPAES	Iron	Total	mg/Kg dw
blankmatrix	ICP-MS	Iron	Total	mg/Kg dw
blankmatrix	ICP-MS	Iron	Total	mg/L
blankwater	EPA 200.8	Iron	Dissolved	ug/L
blankwater	EPA 200.8	Iron	Total	ug/L
blankwater	EPA 6010B	Iron	Total	mg/Kg dw
blankwater	ICPAES	Iron	Total	mg/Kg dw
labwater	ICPAES	Iron	Total	mg/L
labwater	ICPAES	Iron	Total	ng/g dw
runoff	EPA 200.8	Iron	Dissolved	ug/L
runoff	EPA 200.8	Iron	Total	ug/L
samplewater	EPA 200.8	Iron	Dissolved	ug/L
samplewater	EPA 200.8	Iron	Total	ug/L
sediment	EPA 200.7	Iron	Total	mg/Kg dw
sediment	EPA 200.7	Iron	Total	ug/L
sediment	EPA 200.8	Iron	Total	ug/g dw
sediment	EPA 200.8	Iron	Total	umol/g
sediment	EPA 6010B	Iron	Total	mg/Kg dw
sediment	EPA 6010B	Iron	Total	mg/L
sediment	EPA 6010B	Iron	Total	ug/g dw
sediment	EPA 6020	Iron	Total	%
sediment	EPA 6020	Iron	Total	ug/g dw
sediment	EPA 6020	Iron	Total	ug/g ww
sediment	EPA 6020m	Iron	Total	mg/Kg dw
sediment	FAA	Iron	Total	ug/g dw
sediment	GFAA/FAA	Iron	Total	ug/g dw
sediment	ICPAES	Iron	Total	mg/Kg dw
sediment	ICP-MS	Iron	Total	mg/Kg dw

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sediment	ICP-MS	Iron	Total	ng/g dw
sediment	ICP-MS	Iron	Total	ug/g dw
SEM-Extract	EPA 200.8m	Iron	Total	umol/g
habitat	FieldObservations	Irrigation Equipment	None	none
blankwater	EPA 625	Isophorone	Total	ug/L
blankwater	EPA 625M	Isophorone	Total	ug/L
runoff	EPA 625	Isophorone	Total	ug/L
runoff	EPA 625M	Isophorone	Total	ug/L
blankmatrix	EPA 200.8	Lead	Dissolved	ug/L
blankmatrix	EPA 200.8	Lead	Total	ug/g dw
blankmatrix	EPA 200.9	Lead	Total	mg/Kg dw
blankmatrix	EPA 6010B	Lead	Total	mg/Kg dw
blankmatrix	ICP-MS	Lead	Total	mg/Kg dw
blankmatrix	ICP-MS	Lead	Total	mg/L
blankmatrix	ICP-MS	Lead	Total	ug/L
blankwater	EPA 1640	Lead	Dissolved	ug/L
blankwater	EPA 1640	Lead	Total	ug/L
blankwater	EPA 200.8	Lead	Dissolved	ug/L
blankwater	EPA 200.8	Lead	Total	ug/L
blankwater	EPA 200.8m	Lead	Total	ug/L
blankwater	EPA 6010B	Lead	Total	mg/Kg dw
blankwater	ICP-MS	Lead	Total	mg/Kg dw
labwater	EPA 200.9	Lead	Total	mg/L
labwater	EPA 200.9	Lead	Total	ng/g dw
labwater	ICPAES	Lead	Total	mg/Kg dw
runoff	EPA 200.8	Lead	Dissolved	ug/L
runoff	EPA 200.8	Lead	Total	ug/L
runoff	EPA 200.8m	Lead	Dissolved	ug/L
runoff	EPA 200.8m	Lead	Total	ug/L
samplewater	EPA 1640	Lead	Dissolved	ug/L
samplewater	EPA 1640	Lead	Total	ug/L
samplewater	EPA 200.8	Lead	Dissolved	mg/L
samplewater	EPA 200.8	Lead	Dissolved	ug/L
samplewater	EPA 200.8	Lead	Total	ug/L
samplewater	EPA 6020	Lead	Dissolved	mg/L

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sediment	EPA 200.7	Lead	Total	mg/Kg dw
sediment	EPA 200.7	Lead	Total	ug/L
sediment	EPA 200.8	Lead	Total	ug/g dw
sediment	EPA 200.8	Lead	Total	umol/g
sediment	EPA 200.9	Lead	Total	mg/Kg dw
sediment	EPA 200.9	Lead	Total	mg/L
sediment	EPA 200.9	Lead	Total	ng/g dw
sediment	EPA 6010B	Lead	Total	mg/Kg dw
sediment	EPA 6010B	Lead	Total	mg/L
sediment	EPA 6010B	Lead	Total	ug/g dw
sediment	EPA 6020	Lead	Total	%
sediment	EPA 6020	Lead	Total	ug/g dw
sediment	EPA 6020	Lead	Total	ug/g ww
sediment	EPA 6020m	Lead	Total	mg/Kg dw
sediment	GFAA/FAA	Lead	Total	ug/g dw
sediment	ICPAES	Lead	Total	mg/Kg dw
sediment	ICP-MS	Lead	Total	mg/Kg dw
sediment	ICP-MS	Lead	Total	ng/g dw
sediment	ICP-MS	Lead	Total	ug/g dw
SEM-Extract	EPA 200.8m	Lead	Total	umol/g
habitat	FieldMeasure	Length	None	m
habitat	FieldMeasure	Length Downstream	None	m
habitat	FieldMeasure	Length Pool	None	m
habitat	FieldMeasure	Length Reach	Total	m
habitat	FieldMeasure	Length Riffle	None	m
habitat	FieldMeasure	Length Upstream	None	m
habitat	FieldMeasure	Length, Segment	First Supplemental	m
habitat	FieldMeasure	Length, Segment	Main	m
habitat	FieldMeasure	Length, Segment	Second Supplemental	m
habitat	FieldMeasure	Length, Segment	Third Supplemental	m
labwater	EPA 8141AM	Leptophos	Total	ug/L
samplewater	EPA 8141AM	Leptophos	Total	ug/L
habitat	FieldObservations	Liming	None	none
habitat	FieldObservations	Livestock Use	None	none

habitat	FieldObservations	Logging	None	none
habitat	ObservedFieldMeasure	LWD >0.8 DLE, Length >15m	Above Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD >0.8 DLE, Length >15m	In Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD >0.8m DLE, Length 1.5-5m	Above Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD >0.8m DLE, Length 1.5-5m	In Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD >0.8m DLE, Length 5-15m	Above Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD >0.8m DLE, Length 5-15m	In Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD 0.1-<0.3m DLE, Length >15m	Above Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD 0.1-<0.3m DLE, Length >15m	In Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD 0.1-<0.3m DLE, Length 1.5-5m	Above Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD 0.1-<0.3m DLE, Length 1.5-5m	In Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD 0.1-<0.3m DLE, Length 5-15m	Above Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD 0.1-<0.3m DLE, Length 5-15m	In Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD 0.3-<0.6m DLE, Length >15	Above Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD 0.3-<0.6m DLE, Length >15	In Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD 0.3-<0.6m DLE, Length 1.5-5m	Above Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD 0.3-<0.6m DLE, Length 1.5-5m	In Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD 0.3-<0.6m DLE, Length 5-15m	Above Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD 0.3-<0.6m DLE, Length 5-15m	In Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD 0.6-<0.8m DLE, Length >15m	Above Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD 0.6-<0.8m DLE, Length >15m	In Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD 0.6-<0.8m DLE, Length 1.5-5m	Above Bankfull Channel	count

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habitat	ObservedFieldMeasure	LWD 0.6-<0.8m DLE, Length 1.5-5m	In Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD 0.6-<0.8m DLE, Length 5-15	Above Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD 0.6-<0.8m DLE, Length 5-15	In Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD A	In Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD L	In Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD M	In Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD S	In Bankfull Channel	count
habitat	ObservedFieldMeasure	LWD T	In Bankfull Channel	count
habitat	FieldObservations	Macroalgae Cover, Attached	None	none
habitat	FieldObservations	Macroalgae Cover, Unattached	None	none
habitat	FieldObservations	Macrophyte Cover	None	none
blankwater	EPA 200.7	Magnesium	Total	mg/L
runoff	EPA 200.7	Magnesium	Total	mg/L
samplewater	EPA 200.7	Magnesium	Total	mg/L
habitat	FieldObservations	Maintained Lawns	None	none
blankmatrix	EPA 8141AM	Malathion	Total	ng/g dw
blankwater	EPA 525.2	Malathion	Total	ug/L
blankwater	EPA 625	Malathion	Total	ng/L
blankwater	EPA 625	Malathion	Total	ug/L
blankwater	EPA 625M	Malathion	Total	ug/L
labwater	EPA 8141AM	Malathion	Total	ug/L
runoff	EPA 525.2	Malathion	Total	ug/L
runoff	EPA 625M	Malathion	Total	ug/L
samplewater	EPA 625	Malathion	Dissolved	ug/L
samplewater	EPA 625	Malathion	Total	ng/L
samplewater	EPA 625	Malathion	Total	ug/L
samplewater	EPA 8141AM	Malathion	Total	ug/L
samplewater, particulate, <63 um	EPA 625	Malathion	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	Malathion	Total	ug/L

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sediment	EPA 8141AM	Malathion	Total	ng/g dw
sediment	EPA 8270C	Malathion	Total	ng/g dw
sediment	EPA 8270Cm	Malathion	Total	ug/Kg dw
blankmatrix	EPA 200.8	Manganese	Dissolved	ug/L
blankwater	EPA 200.8	Manganese	Dissolved	ug/L
blankwater	EPA 200.8	Manganese	Total	ug/L
samplewater	EPA 200.8	Manganese	Dissolved	ug/L
samplewater	EPA 200.8	Manganese	Total	ug/L
sediment	EPA 200.8	Manganese	Total	ug/g dw
sediment	EPA 200.8	Manganese	Total	umol/g
sediment	EPA 6010B	Manganese	Total	mg/Kg dw
sediment	EPA 6020	Manganese	Total	%
sediment	EPA 6020	Manganese	Total	ug/g dw
sediment	EPA 6020	Manganese	Total	ug/g ww
sediment	EPA 6020m	Manganese	Total	mg/Kg dw
sediment	GFAA/FAA	Manganese	Total	ug/g dw
sediment	ICP-MS	Manganese	Total	ng/g dw
sediment	ICP-MS	Manganese	Total	ug/g dw
SEM-Extract	EPA 200.8m	Manganese	Total	umol/g
blankwater	SM 5540 C	MBAS	Total	mg/L
runoff	SM 5540 C	MBAS	Total	mg/L
samplewater	FieldMeasure	MBAS	Total	mg/L
blankwater	EPA 8151A	MCPA	Total	ug/L
runoff	EPA 8151A	MCPA	Total	ug/L
blankwater	EPA 8151A	MCPP	Total	ug/L
runoff	EPA 8151A	MCPP	Total	ug/L
blankmatrix	CVAA	Mercury	Total	mg/Kg dw
blankmatrix	CVAA	Mercury	Total	ug/L
blankmatrix	EPA 245.1	Mercury	Total	ug/g dw
blankmatrix	ICP-MS	Mercury	Total	mg/Kg dw
blankwater	CVAA	Mercury	Total	mg/Kg dw
blankwater	EPA 1631E	Mercury	Dissolved	ng/L
blankwater	EPA 1631E	Mercury	Total	ng/L
blankwater	EPA 1631E	Mercury	Total	ug/L
blankwater	EPA 1631EM	Mercury	Dissolved	ng/L

blankwater	EPA 1631EM	Mercury	Total	ng/L
blankwater	EPA 245.1	Mercury	Total	ng/L
blankwater	FIMS	Mercury	Total	mg/Kg dw
labwater	CVAA	Mercury	Total	mg/Kg dw
labwater	CVAA	Mercury	Total	ng/g dw
runoff	EPA 1631EM	Mercury	Dissolved	ng/L
runoff	EPA 1631EM	Mercury	Total	ng/L
runoff	EPA 245.1	Mercury	Dissolved	ng/L
runoff	EPA 245.1	Mercury	Total	ng/L
samplewater	EPA 1631E	Mercury	Dissolved	ng/L
samplewater	EPA 1631E	Mercury	Dissolved	ug/L
samplewater	EPA 1631E	Mercury	Total	ng/L
samplewater	EPA 1631E	Mercury	Total	ug/L
samplewater	EPA 245.1	Mercury	Dissolved	ug/L
samplewater	EPA 245.1	Mercury	Total	ug/L
sediment	CVAA	Mercury	Total	mg/Kg dw
sediment	CVAA	Mercury	Total	mg/L
sediment	CVAA	Mercury	Total	ng/g dw
sediment	CVAA	Mercury	Total	ug/g dw
sediment	EPA 200.7	Mercury	Total	mg/Kg dw
sediment	EPA 245.1	Mercury	Total	ug/g dw
sediment	EPA 245.5	Mercury	Total	ug/g dw
sediment	EPA 245.7m	Mercury	Total	mg/Kg dw
sediment	EPA 245.7m	Mercury	Total	ug/g dw
sediment	EPA 6020	Mercury	Total	ug/g dw
sediment	EPA 6020	Mercury	Total	ug/g ww
sediment	EPA 7471A	Mercury	Total	%
sediment	EPA 7471A	Mercury	Total	mg/Kg dw
sediment	EPA 7471A	Mercury	Total	ug/g dw
sediment	FIMS	Mercury	Total	mg/Kg dw
sediment	FIMS	Mercury	Total	ug/g dw
sediment	ICP-MS	Mercury	Total	mg/Kg dw
sediment	ICP-MS	Mercury	Total	ng/g dw
sediment	ICP-MS	Mercury	Total	ug/g dw
sediment	SW7060	Mercury	Total	mg/Kg dw

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sediment	SW7060	Mercury	Total	ug/L
blankmatrix	EPA 8141AM	Merphos	Total	ng/g dw
blankwater	EPA 525.2	Merphos	Total	ug/L
blankwater	EPA 625	Merphos	Total	ng/L
blankwater	EPA 625M	Merphos	Total	ug/L
labwater	EPA 8141AM	Merphos	Total	ug/L
runoff	EPA 525.2	Merphos	Total	ug/L
runoff	EPA 625M	Merphos	Total	ug/L
samplewater	EPA 625	Merphos	Total	ng/L
samplewater	EPA 8141AM	Merphos	Total	ug/L
sediment	EPA 8141AM	Merphos	Total	ng/g dw
sediment	EPA 8270C	Merphos	Total	ng/g dw
sediment	EPA 8270Cm	Merphos	Total	ug/Kg dw
samplewater	Velocity Area	MeterAveragingInterva l	None	seconds
blankwater	EPA 625M	Methamidophos	Total	ug/L
runoff	EPA 625M	Methamidophos	Total	ug/L
labwater	EPA 8141AM	Methidathion	Total	ug/L
samplewater	EPA 8141AM	Methidathion	Total	ug/L
blankmatrix	EPA 8081BM	Methoxychlor	Total	ng/g dw
blankwater	EPA 608	Methoxychlor	Total	ug/L
blankwater	EPA 625M	Methoxychlor	Total	ug/L
labwater	EPA 8081BM	Methoxychlor	Total	ug/L
runoff	EPA 608	Methoxychlor	Total	ug/L
runoff	EPA 625M	Methoxychlor	Total	ug/L
samplewater	EPA 8081BM	Methoxychlor	Total	ug/L
sediment	EPA 608M	Methoxychlor	Total	ug/Kg dw
sediment	EPA 8081BM	Methoxychlor	Total	ng/g dw
sediment	EPA 8270C	Methoxychlor	Total	ng/g dw
sediment	EPA 8270Cm	Methoxychlor	Total	ug/Kg dw
blankmatrix	EPA 8270M	Methyldibenzothiophe ne, 4-	Total	ng/g dw
sediment	EPA 8270M	Methyldibenzothiophe ne, 4-	Total	ng/g dw
blankmatrix	EPA 8270M	Methylfluoranthene, 2-	Total	ng/g dw
sediment	EPA 8270M	Methylfluoranthene, 2-	Total	ng/g dw

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blankmatrix	EPA 8270M	Methylfluorene, 1-	Total	ng/g dw
sediment	EPA 8270M	Methylfluorene, 1-	Total	ng/g dw
blankmatrix	EPA 8270	Methylnaphthalene, 1-	Total	ug/Kg dw
blankmatrix	EPA 8270M	Methylnaphthalene, 1-	Total	ng/g dw
blankmatrix	GCMS	Methylnaphthalene, 1-	Total	ng/g dw
blankwater	EPA 625M	Methylnaphthalene, 1-	Total	ug/L
blankwater	EPA 8270	Methylnaphthalene, 1-	Total	ug/Kg dw
blankwater	GCMS	Methylnaphthalene, 1-	Total	ug/Kg dw
runoff	EPA 625M	Methylnaphthalene, 1-	Total	ug/L
sediment	EPA 8270	Methylnaphthalene, 1-	Total	ng/g dw
sediment	EPA 8270	Methylnaphthalene, 1-	Total	ug/Kg dw
sediment	EPA 8270C	Methylnaphthalene, 1-	Total	ng/g dw
sediment	EPA 8270C	Methylnaphthalene, 1-	Total	ng/g ww
sediment	EPA 8270C	Methylnaphthalene, 1-	Total	ug/Kg dw
sediment	EPA 8270Cm	Methylnaphthalene, 1-	Total	ug/Kg dw
sediment	EPA 8270M	Methylnaphthalene, 1-	Total	ng/g dw
sediment	GCMS	Methylnaphthalene, 1-	Total	ng/g dw
sediment	GCMS	Methylnaphthalene, 1-	Total	ug/Kg dw
sediment	Not Recorded	Methylnaphthalene, 1-	Total	ng/g dw
blankmatrix	EPA 8270	Methylnaphthalene, 2-	Total	ug/Kg dw
blankmatrix	EPA 8270M	Methylnaphthalene, 2-	Total	ng/g dw
blankmatrix	GCMS	Methylnaphthalene, 2-	Total	ng/g dw
blankwater	EPA 625M	Methylnaphthalene, 2-	Total	ug/L
blankwater	EPA 8270	Methylnaphthalene, 2-	Total	ug/Kg dw
blankwater	GCMS	Methylnaphthalene, 2-	Total	ug/Kg dw
runoff	EPA 625M	Methylnaphthalene, 2-	Total	ug/L
sediment	EPA 8270	Methylnaphthalene, 2-	Total	ng/g dw
sediment	EPA 8270	Methylnaphthalene, 2-	Total	ug/Kg dw
sediment	EPA 8270C	Methylnaphthalene, 2-	Total	ng/g dw
sediment	EPA 8270C	Methylnaphthalene, 2-	Total	ng/g ww
sediment	EPA 8270C	Methylnaphthalene, 2-	Total	ug/Kg dw
sediment	EPA 8270Cm	Methylnaphthalene, 2-	Total	ug/Kg dw
sediment	EPA 8270M	Methylnaphthalene, 2-	Total	ng/g dw
sediment	GCMS	Methylnaphthalene, 2-	Total	ng/g dw
sediment	GCMS	Methylnaphthalene, 2-	Total	ug/Kg dw

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sediment	Not Recorded	Methylnaphthalene, 2-	Total	ng/g dw
blankmatrix	EPA 8270	Methylphenanthrene, 1-	Total	ug/Kg dw
blankmatrix	EPA 8270M	Methylphenanthrene, 1-	Total	ng/g dw
blankmatrix	GCMS	Methylphenanthrene, 1-	Total	ng/g dw
blankwater	EPA 625M	Methylphenanthrene, 1-	Total	ug/L
blankwater	EPA 8270	Methylphenanthrene, 1-	Total	ug/Kg dw
blankwater	GCMS	Methylphenanthrene, 1-	Total	ug/Kg dw
runoff	EPA 625M	Methylphenanthrene, 1-	Total	ug/L
sediment	EPA 8270	Methylphenanthrene, 1-	Total	ng/g dw
sediment	EPA 8270	Methylphenanthrene, 1-	Total	ug/Kg dw
sediment	EPA 8270C	Methylphenanthrene, 1-	Total	ng/g dw
sediment	EPA 8270C	Methylphenanthrene, 1-	Total	ng/g ww
sediment	EPA 8270C	Methylphenanthrene, 1-	Total	ug/Kg dw
sediment	EPA 8270Cm	Methylphenanthrene, 1-	Total	ug/Kg dw
sediment	EPA 8270M	Methylphenanthrene, 1-	Total	ng/g dw
sediment	GCMS	Methylphenanthrene, 1-	Total	ng/g dw
sediment	GCMS	Methylphenanthrene, 1-	Total	ug/Kg dw
sediment	Not Recorded	Methylphenanthrene, 1-	Total	ng/g dw
blankwater	EPA 8270Cm	Methylphenol, 2-	Total	ug/L
runoff	EPA 8270Cm	Methylphenol, 2-	Total	ug/L
blankwater	EPA 8270Cm	Methylphenol, 3/4-	Total	ug/L
runoff	EPA 8270Cm	Methylphenol, 3/4-	Total	ug/L
blankwater	EPA 525.2	Metolachlor	Total	ug/L
runoff	EPA 525.2	Metolachlor	Total	ug/L

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blankwater	EPA 525.2	Metribuzin	Total	ug/L
runoff	EPA 525.2	Metribuzin	Total	ug/L
blankwater	EPA 525.2	Mevinphos	Total	ug/L
blankwater	EPA 625	Mevinphos	Total	ng/L
blankwater	EPA 625M	Mevinphos	Total	ug/L
labwater	EPA 8141AM	Mevinphos	Total	ug/L
runoff	EPA 525.2	Mevinphos	Total	ug/L
runoff	EPA 625M	Mevinphos	Total	ug/L
samplewater	EPA 625	Mevinphos	Total	ng/L
samplewater	EPA 8141AM	Mevinphos	Total	ug/L
sediment	EPA 8270C	Mevinphos	Total	ng/g dw
sediment	EPA 8270Cm	Mevinphos	Total	ug/Kg dw
habitat	FieldObservations	Microalgae Thickness	None	none
habitat	FieldObservations	Mines, Quarries	None	none
blankmatrix	EPA 8081BM	Mirex	Total	ng/g dw
blankwater	EPA 608	Mirex	Total	ug/L
blankwater	EPA 625M	Mirex	Total	ug/L
labwater	EPA 8081BM	Mirex	Total	ug/L
runoff	EPA 608	Mirex	Total	ug/L
runoff	EPA 625M	Mirex	Total	ug/L
samplewater	EPA 8081BM	Mirex	Total	ug/L
sediment	EPA 608M	Mirex	Total	ug/Kg dw
sediment	EPA 8081	Mirex	Total	ng/g dw
sediment	EPA 8081BM	Mirex	Total	ng/g dw
sediment	EPA 8270C	Mirex	Total	ng/g dw
sediment	EPA 8270C	Mirex	Total	ng/g ww
sediment	EPA 8270Cm	Mirex	Total	ug/Kg dw
sediment	GCECD/GCMS	Mirex	Total	%
sediment	GCECD/GCMS	Mirex	Total	ng/g dw
sediment	GCMS	Mirex	Total	ng/g dw
sediment	EPA 200.8	Moisture	Total	%
sediment	EPA 7742M	Moisture	Total	%
sediment	EPA 8081BM	Moisture	Total	%
sediment	EPA 8082M	Moisture	Total	%
sediment	EPA 8141AM	Moisture	Total	%

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sediment	EPA 8270M	Moisture	Total	%
blankwater	EPA 525.2	Molinate	Total	ug/L
runoff	EPA 525.2	Molinate	Total	ug/L
blankwater	EPA 200.8	Molybdenum	Dissolved	ug/L
blankwater	EPA 200.8	Molybdenum	Total	ug/L
samplewater	EPA 200.8	Molybdenum	Dissolved	ug/L
samplewater	EPA 200.8	Molybdenum	Total	ug/L
sediment	EPA 200.8	Molybdenum	Total	umol/g
sediment	EPA 6020m	Molybdenum	Total	mg/Kg dw
SEM-Extract	EPA 200.8m	Molybdenum	Total	umol/g
Not Applicable	None	Mortality/Normality	None	%
blankwater	EPA 524.2	MTBE	Total	ug/L
blankwater	EPA 8260B	MTBE	Total	ug/L
runoff	EPA 524.2	MTBE	Total	ug/L
runoff	EPA 8260B	MTBE	Total	ug/L
blankwater	EPA 525.2	Naled	Total	ug/L
labwater	EPA 8141AM	Naled	Total	ug/L
runoff	EPA 525.2	Naled	Total	ug/L
samplewater	EPA 8141AM	Naled	Total	ug/L
blankmatrix	EPA 8270	Naphthalene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Naphthalene	Total	ng/g dw
blankmatrix	GCMS	Naphthalene	Total	ng/g dw
blankwater	EPA 625	Naphthalene	Total	ug/L
blankwater	EPA 625M	Naphthalene	Total	ug/L
blankwater	EPA 8270	Naphthalene	Total	ug/Kg dw
blankwater	EPA 8270Cm	Naphthalene	Total	ug/L
blankwater	GCMS	Naphthalene	Total	ug/Kg dw
runoff	EPA 625	Naphthalene	Total	ug/L
runoff	EPA 625M	Naphthalene	Total	ug/L
runoff	EPA 8270Cm	Naphthalene	Total	ug/L
sediment	EPA 8270	Naphthalene	Total	%
sediment	EPA 8270	Naphthalene	Total	ng/g dw
sediment	EPA 8270	Naphthalene	Total	ug/Kg dw
sediment	EPA 8270C	Naphthalene	Total	ng/g dw
sediment	EPA 8270C	Naphthalene	Total	ng/g ww

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sediment	EPA 8270C	Naphthalene	Total	ug/Kg dw
sediment	EPA 8270Cm	Naphthalene	Total	ug/Kg dw
sediment	EPA 8270M	Naphthalene	Total	ng/g dw
sediment	GCMS	Naphthalene	Total	ng/g dw
sediment	GCMS	Naphthalene	Total	ug/Kg dw
sediment	Not Recorded	Naphthalene	Total	%
sediment	Not Recorded	Naphthalene	Total	ng/g dw
blankmatrix	EPA 8270M	Naphthalene-d8(Surrogate)	Total	% Recovery
sediment	EPA 8270C	Naphthalene-d8(Surrogate)	Total	ng/g dw
sediment	EPA 8270C	Naphthalene-d8(Surrogate)	Total	ng/g ww
sediment	EPA 8270Cm	Naphthalene-d8(Surrogate)	Total	ug/Kg dw
sediment	EPA 8270M	Naphthalene-d8(Surrogate)	Total	% Recovery
sediment	GCMS	Naphthalene-d8(Surrogate)	Total	ng/g dw
blankmatrix	EPA 8270M	Naphthalenes, C1-	Total	ng/g dw
sediment	EPA 8270M	Naphthalenes, C1-	Total	ng/g dw
blankmatrix	EPA 8270M	Naphthalenes, C2-	Total	ng/g dw
sediment	EPA 8270M	Naphthalenes, C2-	Total	ng/g dw
blankmatrix	EPA 8270M	Naphthalenes, C3-	Total	ng/g dw
sediment	EPA 8270M	Naphthalenes, C3-	Total	ng/g dw
blankmatrix	EPA 8270M	Naphthalenes, C4-	Total	ng/g dw
sediment	EPA 8270M	Naphthalenes, C4-	Total	ng/g dw
blankmatrix	EPA 200.8	Nickel	Dissolved	ug/L
blankmatrix	EPA 200.8	Nickel	Total	ug/g dw
blankmatrix	EPA 6010B	Nickel	Total	mg/Kg dw
blankmatrix	ICPAES	Nickel	Total	mg/Kg dw
blankmatrix	ICP-MS	Nickel	Total	mg/Kg dw
blankmatrix	ICP-MS	Nickel	Total	mg/L
blankmatrix	ICP-MS	Nickel	Total	ug/L
blankwater	EPA 1640	Nickel	Dissolved	ug/L
blankwater	EPA 1640	Nickel	Total	ug/L
blankwater	EPA 200.8	Nickel	Dissolved	ug/L

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blankwater	EPA 200.8	Nickel	Total	ug/L
blankwater	EPA 200.8m	Nickel	Total	ug/L
blankwater	EPA 6010B	Nickel	Total	mg/Kg dw
blankwater	ICP-MS	Nickel	Total	mg/Kg dw
labwater	EPA 200.9	Nickel	Total	mg/L
labwater	EPA 200.9	Nickel	Total	ng/g dw
labwater	ICPAES	Nickel	Total	mg/L
labwater	ICPAES	Nickel	Total	ng/g dw
runoff	EPA 200.8	Nickel	Dissolved	ug/L
runoff	EPA 200.8	Nickel	Total	ug/L
runoff	EPA 200.8m	Nickel	Dissolved	ug/L
runoff	EPA 200.8m	Nickel	Total	ug/L
samplewater	EPA 1640	Nickel	Dissolved	ug/L
samplewater	EPA 1640	Nickel	Total	ug/L
samplewater	EPA 200.7	Nickel	Total	ug/L
samplewater	EPA 200.8	Nickel	Dissolved	ug/L
samplewater	EPA 200.8	Nickel	Total	ug/L
samplewater	EPA 200.8m	Nickel	Dissolved	ug/L
samplewater	EPA 200.8m	Nickel	Total	ug/L
sediment	EPA 200.7	Nickel	Total	mg/Kg dw
sediment	EPA 200.7	Nickel	Total	ug/L
sediment	EPA 200.8	Nickel	Total	ug/g dw
sediment	EPA 200.8	Nickel	Total	umol/g
sediment	EPA 200.9	Nickel	Total	mg/Kg dw
sediment	EPA 6010B	Nickel	Total	mg/Kg dw
sediment	EPA 6010B	Nickel	Total	mg/L
sediment	EPA 6010B	Nickel	Total	ug/g dw
sediment	EPA 6020	Nickel	Total	%
sediment	EPA 6020	Nickel	Total	ug/g dw
sediment	EPA 6020	Nickel	Total	ug/g ww
sediment	EPA 6020m	Nickel	Total	mg/Kg dw
sediment	GFAA/FAA	Nickel	Total	ug/g dw
sediment	ICPAES	Nickel	Total	mg/Kg dw
sediment	ICP-MS	Nickel	Total	mg/Kg dw
sediment	ICP-MS	Nickel	Total	ng/g dw

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sediment	ICP-MS	Nickel	Total	ug/g dw
SEM-Extract	EPA 200.8m	Nickel	Total	umol/g
blankwater	EPA 353.2	Nitrate + Nitrite as N	Dissolved	mg/L
blankwater	EPA 353.2	Nitrate + Nitrite as N	Total	mg/L
runoff	EPA 353.2	Nitrate + Nitrite as N	Dissolved	mg/L
runoff	EPA 353.2	Nitrate + Nitrite as N	Total	mg/L
samplewater	EPA 300.0	Nitrate + Nitrite as N	Total	mg/L
samplewater	SM 4500-NO3 F	Nitrate + Nitrite as N	Dissolved	mg/L
samplewater	SM 4500-NO3 F	Nitrate + Nitrite as N	Total	mg/L
blankwater	EPA 300.0	Nitrate as N	Dissolved	mg/L
blankwater	EPA 300.0	Nitrate as N	Total	mg/L
blankwater	EPA 353.2	Nitrate as N	Dissolved	mg/L
blankwater	EPA 353.2	Nitrate as N	Total	mg/L
blankwater	QC 10107041B	Nitrate as N	Total	mg/L
blankwater	SM 4500-NO2 B	Nitrate as N	Total	mg/L
blankwater	SM 4500-NO3 E	Nitrate as N	Dissolved	mg/L
blankwater	SM 4500-NO3 E	Nitrate as N	Total	mg/L
runoff	EPA 300.0	Nitrate as N	Dissolved	mg/L
runoff	EPA 300.0	Nitrate as N	Total	mg/L
runoff	EPA 353.2	Nitrate as N	Dissolved	mg/L
runoff	EPA 353.2	Nitrate as N	Total	mg/L
samplewater	Alpkem RFA 300 Series Nutrient Analyzer	Nitrate as N	Dissolved	umol/g
samplewater	Alpkem RFA 300 Series Nutrient Analyzer	Nitrate as N	Dissolved	umol/L
samplewater	Alpkem RFA 300 Series Nutrient Analyzer	Nitrate as N	Total	umol/g
samplewater	Alpkem RFA 300 Series Nutrient Analyzer	Nitrate as N	Total	umol/L
samplewater	EPA 300.0	Nitrate as N	Dissolved	mg/L
samplewater	EPA 300.0	Nitrate as N	Total	mg/L
samplewater	FieldMeasure	Nitrate as N	Total	mg/L
samplewater	QC 10107041B	Nitrate as N	Total	mg/L
samplewater	SM 4500-NO2 B	Nitrate as N	Total	mg/L
samplewater	SM 4500-NO3 E	Nitrate as N	Dissolved	mg/L
samplewater	SM 4500-NO3 E	Nitrate as N	Total	mg/L

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samplewater	SM 4500-NO3 F	Nitrate as N	Dissolved	mg/L
samplewater	SM 4500-NO3 F	Nitrate as N	Total	mg/L
blankwater	EPA 300.0	Nitrite as N	Dissolved	mg/L
blankwater	EPA 300.0	Nitrite as N	Total	mg/L
blankwater	QC 10107041B	Nitrite as N	Dissolved	mg/L
blankwater	SM 4500-NO2 B	Nitrite as N	Dissolved	mg/L
blankwater	SM 4500-NO2 B	Nitrite as N	Total	mg/L
runoff	EPA 300.0	Nitrite as N	Dissolved	mg/L
runoff	EPA 300.0	Nitrite as N	Total	mg/L
samplewater	Alpkem RFA 300 Series Nutrient Analyzer	Nitrite as N	Dissolved	umol/g
samplewater	Alpkem RFA 300 Series Nutrient Analyzer	Nitrite as N	Dissolved	umol/L
samplewater	Alpkem RFA 300 Series Nutrient Analyzer	Nitrite as N	Total	umol/g
samplewater	Alpkem RFA 300 Series Nutrient Analyzer	Nitrite as N	Total	umol/L
samplewater	EPA 300.0	Nitrite as N	Dissolved	mg/L
samplewater	EPA 300.0	Nitrite as N	Total	mg/L
samplewater	FieldMeasure	Nitrite as N	Total	mg/L
samplewater	QC 10107041B	Nitrite as N	Dissolved	mg/L
samplewater	SM 4500-NO2 B	Nitrite as N	Dissolved	mg/L
samplewater	SM 4500-NO2 B	Nitrite as N	Total	mg/L
blankwater	EPA 625	Nitrobenzene	Total	ug/L
blankwater	EPA 625M	Nitrobenzene	Total	ug/L
runoff	EPA 625	Nitrobenzene	Total	ug/L
runoff	EPA 625M	Nitrobenzene	Total	ug/L
blankwater	EPA 625	Nitrobenzene-d5(Surrogate)	Total	ug/L
blankwater	EPA 8270Cm	Nitrobenzene-d5(Surrogate)	Total	ug/L
runoff	EPA 625	Nitrobenzene-d5(Surrogate)	Total	ug/L
runoff	EPA 8270Cm	Nitrobenzene-d5(Surrogate)	Total	ug/L
sediment	EPA 8270	Nitrobenzene-d5(Surrogate)	Total	ug/Kg dw
sediment	EPA 8270Cm	Nitrobenzene-d5(Surrogate)	Total	ug/Kg dw

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samplewater	SM 4500-NH3 H	Nitrogen, Inorganic	Total	mg/L
samplewater	EPA 351.2	Nitrogen, Organic	Total	mg/L
samplewater	SM 4500-NH3 H	Nitrogen, Organic	Total	mg/L
sediment	CHN	Nitrogen, Total	Total	%
blankwater	EPA 351.1	Nitrogen, Total Kjeldahl	Total	mg/L
blankwater	EPA 351.2	Nitrogen, Total Kjeldahl	Total	mg/L
blankwater	EPA 353.1M	Nitrogen, Total Kjeldahl	Total	mg/L
blankwater	QC 10107062E	Nitrogen, Total Kjeldahl	Total	mg/L
blankwater	SM 4500-N B	Nitrogen, Total Kjeldahl	Total	mg/L
blankwater	SM 4500-N C	Nitrogen, Total Kjeldahl	Total	mg/L
blankwater	SM 4500-N org B	Nitrogen, Total Kjeldahl	Total	mg/L
runoff	EPA 351.1	Nitrogen, Total Kjeldahl	Total	mg/L
runoff	EPA 351.2	Nitrogen, Total Kjeldahl	Total	mg/L
samplewater	EPA 351.2	Nitrogen, Total Kjeldahl	Total	mg/L
samplewater	EPA 353.1M	Nitrogen, Total Kjeldahl	Total	mg/L
samplewater	QC 10107062E	Nitrogen, Total Kjeldahl	Total	mg/L
samplewater	SM 4500-N B	Nitrogen, Total Kjeldahl	Total	mg/L
samplewater	SM 4500-N C	Nitrogen, Total Kjeldahl	Total	mg/L
samplewater	SM 4500-N org B	Nitrogen, Total Kjeldahl	Total	mg/L
sediment	ASTM 1426-93BM	Nitrogen, Total Kjeldahl	Total	mg/Kg dw
blankwater	EPA 625	Nitrophenol, 2-	Total	ug/L
blankwater	EPA 625M	Nitrophenol, 2-	Total	ug/L
blankwater	EPA 8270Cm	Nitrophenol, 2-	Total	ug/L
runoff	EPA 625	Nitrophenol, 2-	Total	ug/L
runoff	EPA 625M	Nitrophenol, 2-	Total	ug/L
runoff	EPA 8270Cm	Nitrophenol, 2-	Total	ug/L
blankwater	EPA 625	Nitrophenol, 4-	Total	ug/L
blankwater	EPA 625M	Nitrophenol, 4-	Total	ug/L
blankwater	EPA 8270Cm	Nitrophenol, 4-	Total	ug/L
runoff	EPA 625	Nitrophenol, 4-	Total	ug/L
runoff	EPA 625M	Nitrophenol, 4-	Total	ug/L
runoff	EPA 8270Cm	Nitrophenol, 4-	Total	ug/L
blankwater	EPA 625	Nitrosodimethylamine, N-	Total	ug/L
blankwater	EPA 625M	Nitrosodimethylamine, N-	Total	ug/L

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runoff	EPA 625	Nitrosodimethylamine, N-	Total	ug/L
runoff	EPA 625M	Nitrosodimethylamine, N-	Total	ug/L
blankwater	EPA 625	Nitrosodi-n- propylamine, N-	Total	ug/L
blankwater	EPA 625M	Nitrosodi-n- propylamine, N-	Total	ug/L
runoff	EPA 625	Nitrosodi-n- propylamine, N-	Total	ug/L
runoff	EPA 625M	Nitrosodi-n- propylamine, N-	Total	ug/L
blankwater	EPA 625	Nitrosodiphenylamine, N-	Total	ug/L
blankwater	EPA 625M	Nitrosodiphenylamine, N-	Total	ug/L
runoff	EPA 625	Nitrosodiphenylamine, N-	Total	ug/L
runoff	EPA 625M	Nitrosodiphenylamine, N-	Total	ug/L
blankmatrix	EPA 8081BM	Nonachlor, cis-	Total	ng/g dw
blankwater	EPA 625M	Nonachlor, cis-	Total	ug/L
labwater	EPA 8081BM	Nonachlor, cis-	Total	ug/L
runoff	EPA 625M	Nonachlor, cis-	Total	ug/L
samplewater	EPA 8081BM	Nonachlor, cis-	Total	ug/L
sediment	EPA 608M	Nonachlor, cis-	Total	ug/Kg dw
sediment	EPA 8081BM	Nonachlor, cis-	Total	ng/g dw
sediment	EPA 8270C	Nonachlor, cis-	Total	ng/g dw
sediment	EPA 8270Cm	Nonachlor, cis-	Total	ug/Kg dw
blankmatrix	EPA 8081BM	Nonachlor, trans-	Total	ng/g dw
blankwater	EPA 625M	Nonachlor, trans-	Total	ug/L
labwater	EPA 8081BM	Nonachlor, trans-	Total	ug/L
runoff	EPA 625M	Nonachlor, trans-	Total	ug/L
samplewater	EPA 8081BM	Nonachlor, trans-	Total	ug/L
sediment	EPA 608M	Nonachlor, trans-	Total	ug/Kg dw
sediment	EPA 8081BM	Nonachlor, trans-	Total	ng/g dw
sediment	EPA 8270C	Nonachlor, trans-	Total	ng/g dw
sediment	EPA 8270C	Nonachlor, trans-	Total	ng/g ww
sediment	EPA 8270Cm	Nonachlor, trans-	Total	ug/Kg dw

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sediment	GCECD/GCMS	Nonachlor, trans-	Total	%
sediment	GCECD/GCMS	Nonachlor, trans-	Total	ng/g dw
sediment	GCMS	Nonachlor, trans-	Total	ng/g dw
Not Applicable	None	Normal Development	None	%
habitat	FieldObservations	ObservedChannelFlowLevel	None	none
habitat	FieldObservations	ObservedFlow	None	none
habitat	FieldObservations	Odor	None	none
samplewater	FieldObservations	Odor	None	none
sediment	FieldObservations	Odor	None	none
habitat	FieldObservations	Odor Intensity	None	none
habitat	FieldObservations	Oil, Gas Wells	None	none
blankwater	EPA 1664A	OilandGrease	Total	mg/L
runoff	EPA 1664A	OilandGrease	Total	mg/L
samplewater	EPA 1664A	OilandGrease	Total	mg/L
habitat	FieldObservations	Orchards	None	none
blankwater	EPA 300.0	OrthoPhosphate as P	Dissolved	mg/L
blankwater	EPA 300.0	OrthoPhosphate as P	Total	mg/L
blankwater	QC 10115011M	OrthoPhosphate as P	Dissolved	mg/L
blankwater	SM 4500-P E	OrthoPhosphate as P	Dissolved	mg/L
blankwater	SM 4500-P E	OrthoPhosphate as P	Total	mg/L
runoff	EPA 300.0	OrthoPhosphate as P	Dissolved	mg/L
samplewater	EPA 300.0	OrthoPhosphate as P	Dissolved	mg/L
samplewater	EPA 300.0	OrthoPhosphate as P	Total	mg/L
samplewater	FieldMeasure	OrthoPhosphate as P	Total	mg/L
samplewater	QC 10115011M	OrthoPhosphate as P	Dissolved	mg/L
samplewater	SM 4500-P E	OrthoPhosphate as P	Dissolved	mg/L
samplewater	SM 4500-P E	OrthoPhosphate as P	Total	mg/L
habitat	FieldObservations	OtherPresence	None	none
habitat	FieldObservations	OverlandRunoffLast24 hrs	None	none
blankmatrix	EPA 8081BM	Oxadiazon	Total	ng/g dw
labwater	EPA 8081BM	Oxadiazon	Total	ug/L
samplewater	EPA 8081BM	Oxadiazon	Total	ug/L
sediment	EPA 8081BM	Oxadiazon	Total	ng/g dw
samplewater	FieldMeasure	Oxidation-Reduction	None	mV

		Potential		
blankmatrix	EPA 8081BM	Oxychlordane	Total	ng/g dw
blankwater	EPA 625M	Oxychlordane	Total	ug/L
labwater	EPA 8081BM	Oxychlordane	Total	ug/L
runoff	EPA 625M	Oxychlordane	Total	ug/L
samplewater	EPA 8081BM	Oxychlordane	Total	ug/L
sediment	EPA 608M	Oxychlordane	Total	ug/Kg dw
sediment	EPA 8081BM	Oxychlordane	Total	ng/g dw
sediment	EPA 8270C	Oxychlordane	Total	ng/g dw
sediment	EPA 8270Cm	Oxychlordane	Total	ug/Kg dw
Not Applicable	None	Oxygen, Dissolved	Dissolved	mg/L
Not Applicable	None	Oxygen, Dissolved	Total	mg/L
overlyingwater	ToxWQMeasurement	Oxygen, Dissolved	Total	mg/L
samplewater	FieldMeasure	Oxygen, Dissolved	Total	mg/L
samplewater	FieldMeasure	Oxygen, Saturation	Total	%
air	FieldMeasure	PAR	None	mE/m <sup>2</sup> /s
samplewater	FieldMeasure	PAR	None	mE/m <sup>2</sup> /s
blankmatrix	EPA 8081BM	Parathion, Ethyl	Total	ng/g dw
blankmatrix	EPA 8141AM	Parathion, Ethyl	Total	ng/g dw
blankwater	EPA 525.2	Parathion, Ethyl	Total	ug/L
labwater	EPA 8141AM	Parathion, Ethyl	Total	ug/L
runoff	EPA 525.2	Parathion, Ethyl	Total	ug/L
samplewater	EPA 8141AM	Parathion, Ethyl	Total	ug/L
sediment	EPA 8081BM	Parathion, Ethyl	Total	ng/g dw
sediment	EPA 8141AM	Parathion, Ethyl	Total	ng/g dw
blankmatrix	EPA 8081BM	Parathion, Methyl	Total	ng/g dw
blankmatrix	EPA 8141AM	Parathion, Methyl	Total	ng/g dw
blankwater	EPA 525.2	Parathion, Methyl	Total	ug/L
blankwater	EPA 625	Parathion, Methyl	Total	ng/L
blankwater	EPA 625M	Parathion, Methyl	Total	ug/L
labwater	EPA 8141AM	Parathion, Methyl	Total	ug/L
runoff	EPA 525.2	Parathion, Methyl	Total	ug/L
runoff	EPA 625M	Parathion, Methyl	Total	ug/L
samplewater	EPA 625	Parathion, Methyl	Total	ng/L
samplewater	EPA 8141AM	Parathion, Methyl	Total	ug/L

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sediment	EPA 8081BM	Parathion, Methyl	Total	ng/g dw
sediment	EPA 8141AM	Parathion, Methyl	Total	ng/g dw
sediment	EPA 8270C	Parathion, Methyl	Total	ng/g dw
sediment	EPA 8270Cm	Parathion, Methyl	Total	ug/Kg dw
habitat	FieldObservations	Parks, Campgrounds	None	none
habitat	FieldObservations	Pasture	None	none
sediment	GCMS	PBDE 001	Total	ug/Kg dw
sediment	GCMS	PBDE 002	Total	ug/Kg dw
sediment	GCMS	PBDE 003	Total	ug/Kg dw
sediment	GCMS	PBDE 007	Total	ug/Kg dw
sediment	GCMS	PBDE 008	Total	ug/Kg dw
sediment	GCMS	PBDE 010	Total	ug/Kg dw
sediment	GCMS	PBDE 011	Total	ug/Kg dw
sediment	GCMS	PBDE 012	Total	ug/Kg dw
sediment	GCMS	PBDE 013	Total	ug/Kg dw
sediment	GCMS	PBDE 015	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 017	Total	ng/g dw
labwater	EPA 8081BM	PBDE 017	Total	ug/L
samplewater	EPA 8081BM	PBDE 017	Total	ug/L
sediment	EPA 8081BM	PBDE 017	Total	ng/g dw
sediment	GCMS	PBDE 017	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 025	Total	ng/g dw
sediment	EPA 8081BM	PBDE 025	Total	ng/g dw
sediment	GCMS	PBDE 025	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 028	Total	ng/g dw
labwater	EPA 8081BM	PBDE 028	Total	ug/L
samplewater	EPA 8081BM	PBDE 028	Total	ug/L
sediment	EPA 8081BM	PBDE 028	Total	ng/g dw
sediment	GCMS	PBDE 028	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 030	Total	ng/g dw
sediment	EPA 8081BM	PBDE 030	Total	ng/g dw
sediment	GCMS	PBDE 030	Total	ug/Kg dw
sediment	GCMS	PBDE 032	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 033	Total	ng/g dw
sediment	EPA 8081BM	PBDE 033	Total	ng/g dw

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sediment	GCMS	PBDE 033	Total	ug/Kg dw
sediment	GCMS	PBDE 035	Total	ug/Kg dw
sediment	GCMS	PBDE 037	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 047	Total	ng/g dw
labwater	EPA 8081BM	PBDE 047	Total	ug/L
samplewater	EPA 8081BM	PBDE 047	Total	ug/L
sediment	EPA 8081BM	PBDE 047	Total	ng/g dw
sediment	GCMS	PBDE 047	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 049	Total	ng/g dw
sediment	EPA 8081BM	PBDE 049	Total	ng/g dw
sediment	GCMS	PBDE 049/71	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 066	Total	ng/g dw
labwater	EPA 8081BM	PBDE 066	Total	ug/L
samplewater	EPA 8081BM	PBDE 066	Total	ug/L
sediment	EPA 8081BM	PBDE 066	Total	ng/g dw
sediment	GCMS	PBDE 066	Total	ug/Kg dw
sediment	GCMS	PBDE 075	Total	ug/Kg dw
sediment	GCMS	PBDE 077	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 085	Total	ng/g dw
labwater	EPA 8081BM	PBDE 085	Total	ug/L
samplewater	EPA 8081BM	PBDE 085	Total	ug/L
sediment	EPA 8081BM	PBDE 085	Total	ng/g dw
sediment	GCMS	PBDE 085	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 099	Total	ng/g dw
labwater	EPA 8081BM	PBDE 099	Total	ug/L
samplewater	EPA 8081BM	PBDE 099	Total	ug/L
sediment	EPA 8081BM	PBDE 099	Total	ng/g dw
sediment	GCMS	PBDE 099	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 100	Total	ng/g dw
labwater	EPA 8081BM	PBDE 100	Total	ug/L
samplewater	EPA 8081BM	PBDE 100	Total	ug/L
sediment	EPA 8081BM	PBDE 100	Total	ng/g dw
sediment	GCMS	PBDE 100	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 100-L(Surrogate)	Total	% Recovery
sediment	EPA 8081BM	PBDE 100-L(Surrogate)	Total	% Recovery

sediment	GCMS	PBDE 116	Total	ug/Kg dw
sediment	GCMS	PBDE 118	Total	ug/Kg dw
sediment	GCMS	PBDE 119	Total	ug/Kg dw
sediment	GCMS	PBDE 126	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 138	Total	ng/g dw
labwater	EPA 8081BM	PBDE 138	Total	ug/L
samplewater	EPA 8081BM	PBDE 138	Total	ug/L
sediment	EPA 8081BM	PBDE 138	Total	ng/g dw
sediment	GCMS	PBDE 138	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 153	Total	ng/g dw
labwater	EPA 8081BM	PBDE 153	Total	ug/L
samplewater	EPA 8081BM	PBDE 153	Total	ug/L
sediment	EPA 8081BM	PBDE 153	Total	ng/g dw
sediment	GCMS	PBDE 153	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 154	Total	ng/g dw
labwater	EPA 8081BM	PBDE 154	Total	ug/L
samplewater	EPA 8081BM	PBDE 154	Total	ug/L
sediment	EPA 8081BM	PBDE 154	Total	ng/g dw
sediment	GCMS	PBDE 154	Total	ug/Kg dw
sediment	GCMS	PBDE 155	Total	ug/Kg dw
sediment	GCMS	PBDE 160	Total	% dw
sediment	GCMS	PBDE 166	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 179	Total	ng/g dw
sediment	EPA 8081BM	PBDE 179	Total	ng/g dw
sediment	GCMS	PBDE 181	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 183	Total	ng/g dw
labwater	EPA 8081BM	PBDE 183	Total	ug/L
samplewater	EPA 8081BM	PBDE 183	Total	ug/L
sediment	EPA 8081BM	PBDE 183	Total	ng/g dw
sediment	GCMS	PBDE 183	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 184	Total	ng/g dw
sediment	EPA 8081BM	PBDE 184	Total	ng/g dw
blankmatrix	EPA 8081BM	PBDE 188	Total	ng/g dw
sediment	EPA 8081BM	PBDE 188	Total	ng/g dw
blankmatrix	EPA 8081BM	PBDE 190	Total	ng/g dw

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labwater	EPA 8081BM	PBDE 190	Total	ug/L
samplewater	EPA 8081BM	PBDE 190	Total	ug/L
sediment	EPA 8081BM	PBDE 190	Total	ng/g dw
sediment	GCMS	PBDE 190	Total	ug/Kg dw
sediment	GCMS	PBDE 194	Total	ug/Kg dw
sediment	GCMS	PBDE 195	Total	ug/Kg dw
sediment	GCMS	PBDE 196	Total	ug/Kg dw
sediment	GCMS	PBDE 197	Total	ug/Kg dw
sediment	GCMS	PBDE 198	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 200	Total	ng/g dw
sediment	EPA 8081BM	PBDE 200	Total	ng/g dw
blankmatrix	EPA 8081BM	PBDE 201	Total	ng/g dw
sediment	EPA 8081BM	PBDE 201	Total	ng/g dw
sediment	GCMS	PBDE 201	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 202	Total	ng/g dw
sediment	EPA 8081BM	PBDE 202	Total	ng/g dw
sediment	GCMS	PBDE 202	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 203	Total	ng/g dw
sediment	EPA 8081BM	PBDE 203	Total	ng/g dw
sediment	GCMS	PBDE 204	Total	ug/Kg dw
sediment	GCMS	PBDE 205	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 206	Total	ng/g dw
sediment	EPA 8081BM	PBDE 206	Total	ng/g dw
sediment	GCMS	PBDE 206	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 207	Total	ng/g dw
sediment	EPA 8081BM	PBDE 207	Total	ng/g dw
sediment	GCMS	PBDE 207	Total	ug/Kg dw
blankmatrix	EPA 8081BM	PBDE 208	Total	ng/g dw
sediment	EPA 8081BM	PBDE 208	Total	ng/g dw
sediment	GCMS	PBDE 208	Total	ug/Kg dw
labwater	EPA 8081BM	PBDE 209	Total	ug/L
samplewater	EPA 8081BM	PBDE 209	Total	ug/L
sediment	GCMS	PBDE 209	Total	% dw
blankwater	EPA 625	PCB 003	Total	ug/L
blankwater	EPA 625M	PCB 003	Total	ug/L

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runoff	EPA 625M	PCB 003	Total	ug/L
samplewater	EPA 625	PCB 003	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 003	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 003	Total	ug/L
sediment	EPA 8270C	PCB 003	Total	ng/g dw
sediment	EPA 8270Cm	PCB 003	Total	ug/Kg dw
labwater	EPA 8082M	PCB 005	Total	ug/L
samplewater	EPA 8082M	PCB 005	Total	ug/L
sediment	GCECD/GCMS	PCB 005/8	Total	ng/g dw
blankmatrix	EPA 8082M	PCB 008	Total	ng/g dw
blankwater	EPA 625	PCB 008	Total	ug/L
blankwater	EPA 625M	PCB 008	Total	ug/L
labwater	EPA 8082M	PCB 008	Total	ug/L
runoff	EPA 625M	PCB 008	Total	ug/L
samplewater	EPA 625	PCB 008	Total	ug/L
samplewater	EPA 8082M	PCB 008	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 008	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 008	Total	ug/L
sediment	EPA 8082	PCB 008	Total	%
sediment	EPA 8082	PCB 008	Total	ng/g dw
sediment	EPA 8082M	PCB 008	Total	ng/g dw
sediment	EPA 8270C	PCB 008	Total	ng/g dw
sediment	EPA 8270C	PCB 008	Total	ng/g ww
sediment	EPA 8270Cm	PCB 008	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 008	Total	%
sediment	GCECD/GCMS	PCB 008	Total	ng/g dw
sediment	GCMS	PCB 008	Total	ng/g dw
labwater	EPA 8082M	PCB 015	Total	ug/L
samplewater	EPA 8082M	PCB 015	Total	ug/L

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blankmatrix	EPA 6020m	PCB 018	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 018	Total	ng/g dw
blankmatrix	EPA 8270	PCB 018	Total	ug/Kg dw
blankmatrix	GCMS	PCB 018	Total	ng/g dw
blankmatrix	GCMS	PCB 018	Total	ng/g ww
blankwater	EPA 625	PCB 018	Total	ug/L
blankwater	EPA 625M	PCB 018	Total	ug/L
blankwater	IONGCMS	PCB 018	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 018	Total	ug/Kg dw
labwater	EPA 8082M	PCB 018	Total	ug/L
runoff	EPA 625M	PCB 018	Total	ug/L
samplewater	EPA 625	PCB 018	Total	ug/L
samplewater	EPA 8082M	PCB 018	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 018	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 018	Total	ug/L
sediment	EPA 6020m	PCB 018	Total	ng/g dw
sediment	EPA 608M	PCB 018	Total	ug/Kg dw
sediment	EPA 8082	PCB 018	Total	%
sediment	EPA 8082	PCB 018	Total	ng/g dw
sediment	EPA 8082	PCB 018	Total	ug/Kg dw
sediment	EPA 8082M	PCB 018	Total	ng/g dw
sediment	EPA 8270	PCB 018	Total	ug/Kg dw
sediment	EPA 8270C	PCB 018	Total	ng/g dw
sediment	EPA 8270C	PCB 018	Total	ng/g ww
sediment	EPA 8270Cm	PCB 018	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 018	Total	%
sediment	GCECD/GCMS	PCB 018	Total	ng/g dw
sediment	GCMS	PCB 018	Total	ng/g dw
sediment	IONGCMS	PCB 018	Total	ug/Kg dw
sediment	SW2081/8082	PCB 018	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 027	Total	ng/g dw
labwater	EPA 8082M	PCB 027	Total	ug/L

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samplewater	EPA 8082M	PCB 027	Total	ug/L
sediment	EPA 8082M	PCB 027	Total	ng/g dw
blankmatrix	EPA 6020m	PCB 028	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 028	Total	ng/g dw
blankmatrix	EPA 8270	PCB 028	Total	ug/Kg dw
blankmatrix	GCMS	PCB 028	Total	ng/g dw
blankmatrix	GCMS	PCB 028	Total	ng/g ww
blankwater	EPA 625	PCB 028	Total	ug/L
blankwater	EPA 625M	PCB 028	Total	ug/L
blankwater	IONGCMS	PCB 028	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 028	Total	ug/Kg dw
labwater	EPA 8082M	PCB 028	Total	ug/L
runoff	EPA 625M	PCB 028	Total	ug/L
samplewater	EPA 625	PCB 028	Total	ug/L
samplewater	EPA 8082M	PCB 028	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 028	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 028	Total	ug/L
sediment	EPA 6020m	PCB 028	Total	ng/g dw
sediment	EPA 608M	PCB 028	Total	ug/Kg dw
sediment	EPA 8082	PCB 028	Total	ng/g dw
sediment	EPA 8082	PCB 028	Total	ug/Kg dw
sediment	EPA 8082M	PCB 028	Total	ng/g dw
sediment	EPA 8270	PCB 028	Total	ug/Kg dw
sediment	EPA 8270C	PCB 028	Total	ng/g dw
sediment	EPA 8270C	PCB 028	Total	ng/g ww
sediment	EPA 8270Cm	PCB 028	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 028	Total	%
sediment	GCECD/GCMS	PCB 028	Total	ng/g dw
sediment	GCMS	PCB 028	Total	ng/g dw
sediment	IONGCMS	PCB 028	Total	ug/Kg dw
sediment	SW2081/8082	PCB 028	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 029	Total	ng/g dw

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labwater	EPA 8082M	PCB 029	Total	ug/L
samplewater	EPA 8082M	PCB 029	Total	ug/L
sediment	EPA 8082M	PCB 029	Total	ng/g dw
blankwater	EPA 625M	PCB 030	Total	ug/L
runoff	EPA 625M	PCB 030	Total	ug/L
blankwater	EPA 625	PCB 030(Surrogate)	Total	ng/L
blankwater	EPA 625	PCB 030(Surrogate)	Total	ug/L
samplewater	EPA 625	PCB 030(Surrogate)	Total	ng/L
samplewater	EPA 625	PCB 030(Surrogate)	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 030(Surrogate)	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 030(Surrogate)	Total	ug/L
sediment	EPA 608M	PCB 030(Surrogate)	Total	ug/Kg dw
sediment	EPA 8270C	PCB 030(Surrogate)	Total	ng/g dw
sediment	EPA 8270Cm	PCB 030(Surrogate)	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 031	Total	ng/g dw
blankwater	EPA 625	PCB 031	Total	ug/L
blankwater	EPA 625M	PCB 031	Total	ug/L
labwater	EPA 8082M	PCB 031	Total	ug/L
runoff	EPA 625M	PCB 031	Total	ug/L
samplewater	EPA 625	PCB 031	Total	ug/L
samplewater	EPA 8082M	PCB 031	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 031	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 031	Total	ug/L
sediment	EPA 8082M	PCB 031	Total	ng/g dw
sediment	EPA 8270C	PCB 031	Total	ng/g dw
sediment	EPA 8270Cm	PCB 031	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 033	Total	ng/g dw
blankwater	EPA 625	PCB 033	Total	ug/L
blankwater	EPA 625M	PCB 033	Total	ug/L

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labwater	EPA 8082M	PCB 033	Total	ug/L
runoff	EPA 625M	PCB 033	Total	ug/L
samplewater	EPA 625	PCB 033	Total	ug/L
samplewater	EPA 8082M	PCB 033	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 033	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 033	Total	ug/L
sediment	EPA 8082M	PCB 033	Total	ng/g dw
sediment	EPA 8270C	PCB 033	Total	ng/g dw
sediment	EPA 8270Cm	PCB 033	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 037	Total	ug/Kg dw
blankmatrix	EPA 8270	PCB 037	Total	ug/Kg dw
blankmatrix	GCMS	PCB 037	Total	ng/g dw
blankmatrix	GCMS	PCB 037	Total	ng/g ww
blankwater	EPA 625	PCB 037	Total	ug/L
blankwater	EPA 625M	PCB 037	Total	ug/L
blankwater	IONGCMS	PCB 037	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 037	Total	ug/Kg dw
runoff	EPA 625M	PCB 037	Total	ug/L
samplewater	EPA 625	PCB 037	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 037	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 037	Total	ug/L
sediment	EPA 6020m	PCB 037	Total	ng/g dw
sediment	EPA 608M	PCB 037	Total	ug/Kg dw
sediment	EPA 8082	PCB 037	Total	ug/Kg dw
sediment	EPA 8270	PCB 037	Total	ug/Kg dw
sediment	EPA 8270C	PCB 037	Total	ng/g dw
sediment	EPA 8270Cm	PCB 037	Total	ug/Kg dw
sediment	GCMS	PCB 037	Total	ng/g dw
sediment	IONGCMS	PCB 037	Total	ug/Kg dw

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sediment	SW2081/8082	PCB 037	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 044	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 044	Total	ng/g dw
blankmatrix	EPA 8270	PCB 044	Total	ug/Kg dw
blankmatrix	GCMS	PCB 044	Total	ng/g dw
blankmatrix	GCMS	PCB 044	Total	ng/g ww
blankwater	EPA 625	PCB 044	Total	ug/L
blankwater	EPA 625M	PCB 044	Total	ug/L
blankwater	IONGCMS	PCB 044	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 044	Total	ug/Kg dw
labwater	EPA 8082M	PCB 044	Total	ug/L
runoff	EPA 625M	PCB 044	Total	ug/L
samplewater	EPA 625	PCB 044	Total	ug/L
samplewater	EPA 8082M	PCB 044	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 044	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 044	Total	ug/L
sediment	EPA 6020m	PCB 044	Total	ng/g dw
sediment	EPA 608M	PCB 044	Total	ug/Kg dw
sediment	EPA 8082	PCB 044	Total	%
sediment	EPA 8082	PCB 044	Total	ng/g dw
sediment	EPA 8082	PCB 044	Total	ug/Kg dw
sediment	EPA 8082M	PCB 044	Total	ng/g dw
sediment	EPA 8270	PCB 044	Total	ug/Kg dw
sediment	EPA 8270C	PCB 044	Total	ng/g dw
sediment	EPA 8270C	PCB 044	Total	ng/g ww
sediment	EPA 8270Cm	PCB 044	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 044	Total	ng/g dw
sediment	GCMS	PCB 044	Total	ng/g dw
sediment	IONGCMS	PCB 044	Total	ug/Kg dw
sediment	SW2081/8082	PCB 044	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 049	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 049	Total	ng/g dw

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blankmatrix	EPA 8270	PCB 049	Total	ug/Kg dw
blankmatrix	GCMS	PCB 049	Total	ng/g dw
blankmatrix	GCMS	PCB 049	Total	ng/g ww
blankwater	EPA 625	PCB 049	Total	ug/L
blankwater	EPA 625M	PCB 049	Total	ug/L
blankwater	IONGCMS	PCB 049	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 049	Total	ug/Kg dw
labwater	EPA 8082M	PCB 049	Total	ug/L
runoff	EPA 625M	PCB 049	Total	ug/L
samplewater	EPA 625	PCB 049	Total	ug/L
samplewater	EPA 8082M	PCB 049	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 049	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 049	Total	ug/L
sediment	EPA 6020m	PCB 049	Total	ng/g dw
sediment	EPA 608M	PCB 049	Total	ug/Kg dw
sediment	EPA 8082	PCB 049	Total	ug/Kg dw
sediment	EPA 8082M	PCB 049	Total	ng/g dw
sediment	EPA 8270	PCB 049	Total	ug/Kg dw
sediment	EPA 8270C	PCB 049	Total	ng/g dw
sediment	EPA 8270Cm	PCB 049	Total	ug/Kg dw
sediment	GCMS	PCB 049	Total	ng/g dw
sediment	IONGCMS	PCB 049	Total	ug/Kg dw
sediment	SW2081/8082	PCB 049	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 052	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 052	Total	ng/g dw
blankmatrix	EPA 8270	PCB 052	Total	ug/Kg dw
blankmatrix	GCMS	PCB 052	Total	ng/g dw
blankmatrix	GCMS	PCB 052	Total	ng/g ww
blankwater	EPA 625	PCB 052	Total	ug/L
blankwater	EPA 625M	PCB 052	Total	ug/L
blankwater	IONGCMS	PCB 052	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 052	Total	ug/Kg dw

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labwater	EPA 8082M	PCB 052	Total	ug/L
runoff	EPA 625M	PCB 052	Total	ug/L
samplewater	EPA 625	PCB 052	Total	ug/L
samplewater	EPA 8082M	PCB 052	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 052	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 052	Total	ug/L
sediment	EPA 6020m	PCB 052	Total	ng/g dw
sediment	EPA 608M	PCB 052	Total	ug/Kg dw
sediment	EPA 8082	PCB 052	Total	%
sediment	EPA 8082	PCB 052	Total	ng/g dw
sediment	EPA 8082	PCB 052	Total	ug/Kg dw
sediment	EPA 8082M	PCB 052	Total	ng/g dw
sediment	EPA 8270	PCB 052	Total	ug/Kg dw
sediment	EPA 8270C	PCB 052	Total	ng/g dw
sediment	EPA 8270C	PCB 052	Total	ng/g ww
sediment	EPA 8270Cm	PCB 052	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 052	Total	ng/g dw
sediment	GCMS	PCB 052	Total	ng/g dw
sediment	IONGCMS	PCB 052	Total	ug/Kg dw
sediment	SW2081/8082	PCB 052	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 056	Total	ng/g dw
labwater	EPA 8082M	PCB 056	Total	ug/L
samplewater	EPA 8082M	PCB 056	Total	ug/L
sediment	EPA 8082M	PCB 056	Total	ng/g dw
blankwater	EPA 625	PCB 056/60	Total	ug/L
blankwater	EPA 625M	PCB 056/60	Total	ug/L
runoff	EPA 625M	PCB 056/60	Total	ug/L
samplewater	EPA 625	PCB 056/60	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 056/60	Total	ug/L
samplewater, particulate, 63	EPA 625	PCB 056/60	Total	ug/L

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um to 2000 um				
sediment	EPA 8270Cm	PCB 056/60	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 060	Total	ng/g dw
labwater	EPA 8082M	PCB 060	Total	ug/L
samplewater	EPA 8082M	PCB 060	Total	ug/L
sediment	EPA 8082M	PCB 060	Total	ng/g dw
blankmatrix	EPA 8082M	PCB 064	Total	ng/g dw
sediment	EPA 8082M	PCB 064	Total	ng/g dw
sediment	EPA 8270Cm	PCB 065(Surrogate)	Total	ug/Kg dw
sediment	GCMS	PCB 065(Surrogate)	Total	ng/g dw
blankmatrix	EPA 6020m	PCB 066	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 066	Total	ng/g dw
blankmatrix	EPA 8270	PCB 066	Total	ug/Kg dw
blankmatrix	GCMS	PCB 066	Total	ng/g dw
blankmatrix	GCMS	PCB 066	Total	ng/g ww
blankwater	EPA 625	PCB 066	Total	ug/L
blankwater	EPA 625M	PCB 066	Total	ug/L
blankwater	IONGCMS	PCB 066	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 066	Total	ug/Kg dw
labwater	EPA 8082M	PCB 066	Total	ug/L
runoff	EPA 625M	PCB 066	Total	ug/L
samplewater	EPA 625	PCB 066	Total	ug/L
samplewater	EPA 8082M	PCB 066	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 066	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 066	Total	ug/L
sediment	EPA 6020m	PCB 066	Total	ng/g dw
sediment	EPA 608M	PCB 066	Total	ug/Kg dw
sediment	EPA 8082	PCB 066	Total	ng/g dw
sediment	EPA 8082	PCB 066	Total	ug/Kg dw
sediment	EPA 8082M	PCB 066	Total	ng/g dw
sediment	EPA 8270	PCB 066	Total	ug/Kg dw
sediment	EPA 8270C	PCB 066	Total	ng/g dw

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sediment	EPA 8270C	PCB 066	Total	ng/g ww
sediment	EPA 8270Cm	PCB 066	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 066	Total	ng/g dw
sediment	GCMS	PCB 066	Total	ng/g dw
sediment	IONGCMs	PCB 066	Total	ug/Kg dw
sediment	SW2081/8082	PCB 066	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 070	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 070	Total	ng/g dw
blankmatrix	EPA 8270	PCB 070	Total	ug/Kg dw
blankmatrix	GCMS	PCB 070	Total	ng/g dw
blankmatrix	GCMS	PCB 070	Total	ng/g ww
blankwater	EPA 625	PCB 070	Total	ug/L
blankwater	EPA 625M	PCB 070	Total	ug/L
blankwater	IONGCMs	PCB 070	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 070	Total	ug/Kg dw
labwater	EPA 8082M	PCB 070	Total	ug/L
runoff	EPA 625M	PCB 070	Total	ug/L
samplewater	EPA 625	PCB 070	Total	ug/L
samplewater	EPA 8082M	PCB 070	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 070	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 070	Total	ug/L
sediment	EPA 6020m	PCB 070	Total	ng/g dw
sediment	EPA 608M	PCB 070	Total	ug/Kg dw
sediment	EPA 8082	PCB 070	Total	ug/Kg dw
sediment	EPA 8082M	PCB 070	Total	ng/g dw
sediment	EPA 8270	PCB 070	Total	ug/Kg dw
sediment	EPA 8270C	PCB 070	Total	ng/g dw
sediment	EPA 8270Cm	PCB 070	Total	ug/Kg dw
sediment	GCMS	PCB 070	Total	ng/g dw
sediment	IONGCMs	PCB 070	Total	ug/Kg dw
sediment	SW2081/8082	PCB 070	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 074	Total	ug/Kg dw

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blankmatrix	EPA 8082M	PCB 074	Total	ng/g dw
blankmatrix	EPA 8270	PCB 074	Total	ug/Kg dw
blankmatrix	GCMS	PCB 074	Total	ng/g dw
blankmatrix	GCMS	PCB 074	Total	ng/g ww
blankwater	EPA 625	PCB 074	Total	ug/L
blankwater	EPA 625M	PCB 074	Total	ug/L
blankwater	IONGCMS	PCB 074	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 074	Total	ug/Kg dw
labwater	EPA 8082M	PCB 074	Total	ug/L
runoff	EPA 625M	PCB 074	Total	ug/L
samplewater	EPA 625	PCB 074	Total	ug/L
samplewater	EPA 8082M	PCB 074	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 074	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 074	Total	ug/L
sediment	EPA 6020m	PCB 074	Total	ng/g dw
sediment	EPA 608M	PCB 074	Total	ug/Kg dw
sediment	EPA 8082	PCB 074	Total	ug/Kg dw
sediment	EPA 8082M	PCB 074	Total	ng/g dw
sediment	EPA 8270	PCB 074	Total	ug/Kg dw
sediment	EPA 8270C	PCB 074	Total	ng/g dw
sediment	EPA 8270Cm	PCB 074	Total	ug/Kg dw
sediment	GCMS	PCB 074	Total	ng/g dw
sediment	IONGCMS	PCB 074	Total	ug/Kg dw
sediment	SW2081/8082	PCB 074	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 077	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 077	Total	ng/g dw
blankmatrix	EPA 8270	PCB 077	Total	ug/Kg dw
blankmatrix	GCMS	PCB 077	Total	ng/g dw
blankmatrix	GCMS	PCB 077	Total	ng/g ww
blankwater	EPA 625	PCB 077	Total	ug/L
blankwater	EPA 625M	PCB 077	Total	ug/L
blankwater	IONGCMS	PCB 077	Total	ug/Kg dw

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blankwater	SW2081/8082	PCB 077	Total	ug/Kg dw
labwater	EPA 8082M	PCB 077	Total	ug/L
runoff	EPA 625M	PCB 077	Total	ug/L
samplewater	EPA 625	PCB 077	Total	ug/L
samplewater	EPA 8082M	PCB 077	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 077	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 077	Total	ug/L
sediment	EPA 6020m	PCB 077	Total	ng/g dw
sediment	EPA 608M	PCB 077	Total	ug/Kg dw
sediment	EPA 8082	PCB 077	Total	ng/g dw
sediment	EPA 8082	PCB 077	Total	ug/Kg dw
sediment	EPA 8082M	PCB 077	Total	ng/g dw
sediment	EPA 8270	PCB 077	Total	ug/Kg dw
sediment	EPA 8270C	PCB 077	Total	ng/g dw
sediment	EPA 8270C	PCB 077	Total	ng/g ww
sediment	EPA 8270Cm	PCB 077	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 077	Total	ng/g dw
sediment	GCMS	PCB 077	Total	ng/g dw
sediment	IONGCMS	PCB 077	Total	ug/Kg dw
sediment	SW2081/8082	PCB 077	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 077/110	Total	ng/g dw
blankmatrix	EPA 6020m	PCB 081	Total	ug/Kg dw
blankmatrix	EPA 8270	PCB 081	Total	ug/Kg dw
blankmatrix	GCMS	PCB 081	Total	ng/g dw
blankmatrix	GCMS	PCB 081	Total	ng/g ww
blankwater	EPA 625	PCB 081	Total	ug/L
blankwater	EPA 625M	PCB 081	Total	ug/L
blankwater	IONGCMS	PCB 081	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 081	Total	ug/Kg dw
runoff	EPA 625M	PCB 081	Total	ug/L
samplewater	EPA 625	PCB 081	Total	ug/L
samplewater,	EPA 625	PCB 081	Total	ug/L

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particulate, <63 um				
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 081	Total	ug/L
sediment	EPA 6020m	PCB 081	Total	ng/g dw
sediment	EPA 608M	PCB 081	Total	ug/Kg dw
sediment	EPA 8082	PCB 081	Total	ug/Kg dw
sediment	EPA 8270	PCB 081	Total	ug/Kg dw
sediment	EPA 8270C	PCB 081	Total	ng/g dw
sediment	EPA 8270Cm	PCB 081	Total	ug/Kg dw
sediment	GCMS	PCB 081	Total	ng/g dw
sediment	IONGCMS	PCB 081	Total	ug/Kg dw
sediment	SW2081/8082	PCB 081	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 087	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 087	Total	ng/g dw
blankmatrix	EPA 8270	PCB 087	Total	ug/Kg dw
blankmatrix	GCMS	PCB 087	Total	ng/g dw
blankmatrix	GCMS	PCB 087	Total	ng/g ww
blankwater	EPA 625	PCB 087	Total	ug/L
blankwater	EPA 625M	PCB 087	Total	ug/L
blankwater	IONGCMS	PCB 087	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 087	Total	ug/Kg dw
labwater	EPA 8082M	PCB 087	Total	ug/L
runoff	EPA 625M	PCB 087	Total	ug/L
samplewater	EPA 625	PCB 087	Total	ug/L
samplewater	EPA 8082M	PCB 087	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 087	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 087	Total	ug/L
sediment	EPA 6020m	PCB 087	Total	ng/g dw
sediment	EPA 608M	PCB 087	Total	ug/Kg dw
sediment	EPA 8082	PCB 087	Total	ug/Kg dw
sediment	EPA 8082M	PCB 087	Total	ng/g dw

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sediment	EPA 8270	PCB 087	Total	ug/Kg dw
sediment	EPA 8270C	PCB 087	Total	ng/g dw
sediment	EPA 8270Cm	PCB 087	Total	ug/Kg dw
sediment	GCMS	PCB 087	Total	ng/g dw
sediment	IONGCMs	PCB 087	Total	ug/Kg dw
sediment	SW2081/8082	PCB 087	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 090/101	Total	ng/g dw
blankmatrix	EPA 8082M	PCB 095	Total	ng/g dw
blankwater	EPA 625	PCB 095	Total	ug/L
blankwater	EPA 625M	PCB 095	Total	ug/L
labwater	EPA 8082M	PCB 095	Total	ug/L
runoff	EPA 625M	PCB 095	Total	ug/L
samplewater	EPA 625	PCB 095	Total	ug/L
samplewater	EPA 8082M	PCB 095	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 095	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 095	Total	ug/L
sediment	EPA 8082M	PCB 095	Total	ng/g dw
sediment	EPA 8270C	PCB 095	Total	ng/g dw
sediment	EPA 8270Cm	PCB 095	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 097	Total	ng/g dw
blankwater	EPA 625	PCB 097	Total	ug/L
blankwater	EPA 625M	PCB 097	Total	ug/L
labwater	EPA 8082M	PCB 097	Total	ug/L
runoff	EPA 625M	PCB 097	Total	ug/L
samplewater	EPA 625	PCB 097	Total	ug/L
samplewater	EPA 8082M	PCB 097	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 097	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 097	Total	ug/L
sediment	EPA 8082M	PCB 097	Total	ng/g dw

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sediment	EPA 8270C	PCB 097	Total	ng/g dw
sediment	EPA 8270Cm	PCB 097	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 099	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 099	Total	ng/g dw
blankmatrix	EPA 8270	PCB 099	Total	ug/Kg dw
blankmatrix	GCMS	PCB 099	Total	ng/g dw
blankmatrix	GCMS	PCB 099	Total	ng/g ww
blankwater	EPA 625	PCB 099	Total	ug/L
blankwater	EPA 625M	PCB 099	Total	ug/L
blankwater	IONGCMs	PCB 099	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 099	Total	ug/Kg dw
labwater	EPA 8082M	PCB 099	Total	ug/L
runoff	EPA 625M	PCB 099	Total	ug/L
samplewater	EPA 625	PCB 099	Total	ug/L
samplewater	EPA 8082M	PCB 099	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 099	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 099	Total	ug/L
sediment	EPA 6020m	PCB 099	Total	ng/g dw
sediment	EPA 608M	PCB 099	Total	ug/Kg dw
sediment	EPA 8082	PCB 099	Total	ug/Kg dw
sediment	EPA 8082M	PCB 099	Total	ng/g dw
sediment	EPA 8270	PCB 099	Total	ug/Kg dw
sediment	EPA 8270C	PCB 099	Total	ng/g dw
sediment	EPA 8270Cm	PCB 099	Total	ug/Kg dw
sediment	GCMS	PCB 099	Total	ng/g dw
sediment	IONGCMs	PCB 099	Total	ug/Kg dw
sediment	SW2081/8082	PCB 099	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 101	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 101	Total	ng/g dw
blankmatrix	EPA 8270	PCB 101	Total	ug/Kg dw
blankmatrix	GCMS	PCB 101	Total	ng/g dw
blankmatrix	GCMS	PCB 101	Total	ng/g ww

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blankwater	EPA 625	PCB 101	Total	ug/L
blankwater	EPA 625M	PCB 101	Total	ug/L
blankwater	IONGCMS	PCB 101	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 101	Total	ug/Kg dw
labwater	EPA 8082M	PCB 101	Total	ug/L
runoff	EPA 625M	PCB 101	Total	ug/L
samplewater	EPA 625	PCB 101	Total	ug/L
samplewater	EPA 8082M	PCB 101	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 101	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 101	Total	ug/L
sediment	EPA 6020m	PCB 101	Total	ng/g dw
sediment	EPA 608M	PCB 101	Total	ug/Kg dw
sediment	EPA 8082	PCB 101	Total	%
sediment	EPA 8082	PCB 101	Total	ng/g dw
sediment	EPA 8082	PCB 101	Total	ug/Kg dw
sediment	EPA 8082M	PCB 101	Total	ng/g dw
sediment	EPA 8270	PCB 101	Total	ug/Kg dw
sediment	EPA 8270C	PCB 101	Total	ng/g dw
sediment	EPA 8270C	PCB 101	Total	ng/g ww
sediment	EPA 8270Cm	PCB 101	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 101	Total	%
sediment	GCECD/GCMS	PCB 101	Total	ng/g dw
sediment	GCMS	PCB 101	Total	ng/g dw
sediment	IONGCMS	PCB 101	Total	ug/Kg dw
sediment	SW2081/8082	PCB 101	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 105	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 105	Total	ng/g dw
blankmatrix	EPA 8270	PCB 105	Total	ug/Kg dw
blankmatrix	GCMS	PCB 105	Total	ng/g dw
blankmatrix	GCMS	PCB 105	Total	ng/g ww
blankwater	EPA 625	PCB 105	Total	ug/L
blankwater	EPA 625M	PCB 105	Total	ug/L

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blankwater	IONGCMS	PCB 105	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 105	Total	ug/Kg dw
labwater	EPA 8082M	PCB 105	Total	ug/L
runoff	EPA 625M	PCB 105	Total	ug/L
samplewater	EPA 625	PCB 105	Total	ug/L
samplewater	EPA 8082M	PCB 105	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 105	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 105	Total	ug/L
sediment	EPA 6020m	PCB 105	Total	ng/g dw
sediment	EPA 608M	PCB 105	Total	ug/Kg dw
sediment	EPA 8082	PCB 105	Total	ng/g dw
sediment	EPA 8082	PCB 105	Total	ug/Kg dw
sediment	EPA 8082M	PCB 105	Total	ng/g dw
sediment	EPA 8270	PCB 105	Total	ug/Kg dw
sediment	EPA 8270C	PCB 105	Total	ng/g dw
sediment	EPA 8270C	PCB 105	Total	ng/g ww
sediment	EPA 8270Cm	PCB 105	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 105	Total	%
sediment	GCECD/GCMS	PCB 105	Total	ng/g dw
sediment	GCMS	PCB 105	Total	ng/g dw
sediment	IONGCMS	PCB 105	Total	ug/Kg dw
sediment	SW2081/8082	PCB 105	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 110	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 110	Total	ng/g dw
blankmatrix	EPA 8270	PCB 110	Total	ug/Kg dw
blankmatrix	GCMS	PCB 110	Total	ng/g dw
blankmatrix	GCMS	PCB 110	Total	ng/g ww
blankwater	EPA 625	PCB 110	Total	ug/L
blankwater	EPA 625M	PCB 110	Total	ug/L
blankwater	IONGCMS	PCB 110	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 110	Total	ug/Kg dw
labwater	EPA 8082M	PCB 110	Total	ug/L

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runoff	EPA 625M	PCB 110	Total	ug/L
samplewater	EPA 625	PCB 110	Total	ug/L
samplewater	EPA 8082M	PCB 110	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 110	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 110	Total	ug/L
sediment	EPA 6020m	PCB 110	Total	ng/g dw
sediment	EPA 608M	PCB 110	Total	ug/Kg dw
sediment	EPA 8082	PCB 110	Total	ng/g dw
sediment	EPA 8082	PCB 110	Total	ug/Kg dw
sediment	EPA 8082M	PCB 110	Total	ng/g dw
sediment	EPA 8270	PCB 110	Total	ug/Kg dw
sediment	EPA 8270C	PCB 110	Total	ng/g dw
sediment	EPA 8270C	PCB 110	Total	ng/g ww
sediment	EPA 8270Cm	PCB 110	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 110	Total	ng/g dw
sediment	GCMS	PCB 110	Total	ng/g dw
sediment	IONGCMs	PCB 110	Total	ug/Kg dw
sediment	SW2081/8082	PCB 110	Total	ug/Kg dw
blankwater	EPA 625M	PCB 112	Total	ug/L
runoff	EPA 625M	PCB 112	Total	ug/L
blankwater	EPA 625	PCB 112(Surrogate)	Total	ng/L
blankwater	EPA 625	PCB 112(Surrogate)	Total	ug/L
samplewater	EPA 625	PCB 112(Surrogate)	Total	ng/L
samplewater	EPA 625	PCB 112(Surrogate)	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 112(Surrogate)	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 112(Surrogate)	Total	ug/L
sediment	EPA 8270C	PCB 112(Surrogate)	Total	ng/g dw
sediment	EPA 8270C	PCB 112(Surrogate)	Total	ng/g ww
sediment	EPA 8270Cm	PCB 112(Surrogate)	Total	ug/Kg dw

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blankmatrix	EPA 6020m	PCB 114	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 114	Total	ng/g dw
blankmatrix	EPA 8270	PCB 114	Total	ug/Kg dw
blankmatrix	GCMS	PCB 114	Total	ng/g dw
blankmatrix	GCMS	PCB 114	Total	ng/g ww
blankwater	EPA 625	PCB 114	Total	ug/L
blankwater	EPA 625M	PCB 114	Total	ug/L
blankwater	IONGCMS	PCB 114	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 114	Total	ug/Kg dw
labwater	EPA 8082M	PCB 114	Total	ug/L
runoff	EPA 625M	PCB 114	Total	ug/L
samplewater	EPA 625	PCB 114	Total	ug/L
samplewater	EPA 8082M	PCB 114	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 114	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 114	Total	ug/L
sediment	EPA 6020m	PCB 114	Total	ng/g dw
sediment	EPA 608M	PCB 114	Total	ug/Kg dw
sediment	EPA 8082	PCB 114	Total	ug/Kg dw
sediment	EPA 8082M	PCB 114	Total	ng/g dw
sediment	EPA 8270	PCB 114	Total	ug/Kg dw
sediment	EPA 8270C	PCB 114	Total	ng/g dw
sediment	EPA 8270Cm	PCB 114	Total	ug/Kg dw
sediment	GCMS	PCB 114	Total	ng/g dw
sediment	IONGCMS	PCB 114	Total	ug/Kg dw
sediment	SW2081/8082	PCB 114	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 118	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 118	Total	ng/g dw
blankmatrix	EPA 8270	PCB 118	Total	ug/Kg dw
blankmatrix	GCMS	PCB 118	Total	ng/g dw
blankmatrix	GCMS	PCB 118	Total	ng/g ww
blankwater	EPA 625	PCB 118	Total	ug/L
blankwater	EPA 625M	PCB 118	Total	ug/L

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blankwater	IONGCMS	PCB 118	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 118	Total	ug/Kg dw
labwater	EPA 8082M	PCB 118	Total	ug/L
runoff	EPA 625M	PCB 118	Total	ug/L
samplewater	EPA 625	PCB 118	Total	ug/L
samplewater	EPA 8082M	PCB 118	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 118	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 118	Total	ug/L
sediment	EPA 6020m	PCB 118	Total	ng/g dw
sediment	EPA 608M	PCB 118	Total	ug/Kg dw
sediment	EPA 8082	PCB 118	Total	%
sediment	EPA 8082	PCB 118	Total	ng/g dw
sediment	EPA 8082	PCB 118	Total	ug/Kg dw
sediment	EPA 8082M	PCB 118	Total	ng/g dw
sediment	EPA 8270	PCB 118	Total	ug/Kg dw
sediment	EPA 8270C	PCB 118	Total	ng/g dw
sediment	EPA 8270C	PCB 118	Total	ng/g ww
sediment	EPA 8270Cm	PCB 118	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 118	Total	%
sediment	GCECD/GCMS	PCB 118	Total	ng/g dw
sediment	GCMS	PCB 118	Total	ng/g dw
sediment	IONGCMS	PCB 118	Total	ug/Kg dw
sediment	SW2081/8082	PCB 118	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 119	Total	ug/Kg dw
blankmatrix	EPA 8270	PCB 119	Total	ug/Kg dw
blankmatrix	GCMS	PCB 119	Total	ng/g dw
blankmatrix	GCMS	PCB 119	Total	ng/g ww
blankwater	EPA 625	PCB 119	Total	ug/L
blankwater	EPA 625M	PCB 119	Total	ug/L
blankwater	IONGCMS	PCB 119	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 119	Total	ug/Kg dw
runoff	EPA 625M	PCB 119	Total	ug/L

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samplewater	EPA 625	PCB 119	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 119	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 119	Total	ug/L
sediment	EPA 6020m	PCB 119	Total	ng/g dw
sediment	EPA 608M	PCB 119	Total	ug/Kg dw
sediment	EPA 8082	PCB 119	Total	ug/Kg dw
sediment	EPA 8270	PCB 119	Total	ug/Kg dw
sediment	EPA 8270C	PCB 119	Total	ng/g dw
sediment	EPA 8270Cm	PCB 119	Total	ug/Kg dw
sediment	GCMS	PCB 119	Total	ng/g dw
sediment	IONGCMS	PCB 119	Total	ug/Kg dw
sediment	SW2081/8082	PCB 119	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 123	Total	ug/Kg dw
blankmatrix	EPA 8270	PCB 123	Total	ug/Kg dw
blankmatrix	GCMS	PCB 123	Total	ng/g dw
blankmatrix	GCMS	PCB 123	Total	ng/g ww
blankwater	EPA 625	PCB 123	Total	ug/L
blankwater	EPA 625M	PCB 123	Total	ug/L
blankwater	IONGCMS	PCB 123	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 123	Total	ug/Kg dw
runoff	EPA 625M	PCB 123	Total	ug/L
samplewater	EPA 625	PCB 123	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 123	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 123	Total	ug/L
sediment	EPA 6020m	PCB 123	Total	ng/g dw
sediment	EPA 608M	PCB 123	Total	ug/Kg dw
sediment	EPA 8082	PCB 123	Total	ug/Kg dw
sediment	EPA 8270	PCB 123	Total	ug/Kg dw
sediment	EPA 8270C	PCB 123	Total	ng/g dw

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sediment	EPA 8270Cm	PCB 123	Total	ug/Kg dw
sediment	GCMS	PCB 123	Total	ng/g dw
sediment	IONGCMS	PCB 123	Total	ug/Kg dw
sediment	SW2081/8082	PCB 123	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 126	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 126	Total	ng/g dw
blankmatrix	EPA 8270	PCB 126	Total	ug/Kg dw
blankmatrix	GCMS	PCB 126	Total	ng/g dw
blankmatrix	GCMS	PCB 126	Total	ng/g ww
blankwater	EPA 625	PCB 126	Total	ug/L
blankwater	EPA 625M	PCB 126	Total	ug/L
blankwater	IONGCMS	PCB 126	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 126	Total	ug/Kg dw
labwater	EPA 8082M	PCB 126	Total	ug/L
runoff	EPA 625M	PCB 126	Total	ug/L
samplewater	EPA 625	PCB 126	Total	ug/L
samplewater	EPA 8082M	PCB 126	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 126	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 126	Total	ug/L
sediment	EPA 6020m	PCB 126	Total	ng/g dw
sediment	EPA 608M	PCB 126	Total	ug/Kg dw
sediment	EPA 8082	PCB 126	Total	ng/g dw
sediment	EPA 8082	PCB 126	Total	ug/Kg dw
sediment	EPA 8082M	PCB 126	Total	ng/g dw
sediment	EPA 8270	PCB 126	Total	ug/Kg dw
sediment	EPA 8270C	PCB 126	Total	ng/g dw
sediment	EPA 8270C	PCB 126	Total	ng/g ww
sediment	EPA 8270Cm	PCB 126	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 126	Total	ng/g dw
sediment	GCMS	PCB 126	Total	ng/g dw
sediment	IONGCMS	PCB 126	Total	ug/Kg dw
sediment	SW2081/8082	PCB 126	Total	ug/Kg dw

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blankmatrix	EPA 6020m	PCB 128	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 128	Total	ng/g dw
blankmatrix	GCMS	PCB 128	Total	ng/g dw
blankmatrix	GCMS	PCB 128	Total	ng/g ww
blankwater	EPA 625	PCB 128	Total	ug/L
blankwater	EPA 625M	PCB 128	Total	ug/L
blankwater	IONGCMS	PCB 128	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 128	Total	ug/Kg dw
labwater	EPA 8082M	PCB 128	Total	ug/L
runoff	EPA 625M	PCB 128	Total	ug/L
samplewater	EPA 625	PCB 128	Total	ug/L
samplewater	EPA 8082M	PCB 128	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 128	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 128	Total	ug/L
sediment	EPA 6020m	PCB 128	Total	ng/g dw
sediment	EPA 608M	PCB 128	Total	ug/Kg dw
sediment	EPA 8082	PCB 128	Total	ng/g dw
sediment	EPA 8082	PCB 128	Total	ug/Kg dw
sediment	EPA 8082M	PCB 128	Total	ng/g dw
sediment	EPA 8270C	PCB 128	Total	ng/g dw
sediment	EPA 8270Cm	PCB 128	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 128	Total	%
sediment	GCECD/GCMS	PCB 128	Total	ng/g dw
sediment	GCMS	PCB 128	Total	ng/g dw
sediment	IONGCMS	PCB 128	Total	ug/Kg dw
sediment	SW2081/8082	PCB 128	Total	ug/Kg dw
blankmatrix	EPA 8270	PCB 128/167	Total	ug/Kg dw
sediment	EPA 8270	PCB 128/167	Total	ug/Kg dw
sediment	EPA 8270C	PCB 128/167	Total	ng/g dw
sediment	EPA 8270C	PCB 128/167	Total	ng/g ww
sediment	GCECD/GCMS	PCB 132/153/168	Total	ng/g dw
blankmatrix	EPA 8270	PCB 132/168	Total	ug/Kg dw

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blankwater	EPA 625	PCB 132/168	Total	ug/L
blankwater	EPA 625M	PCB 132/168	Total	ug/L
runoff	EPA 625M	PCB 132/168	Total	ug/L
samplewater	EPA 625	PCB 132/168	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 132/168	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 132/168	Total	ug/L
sediment	EPA 8270	PCB 132/168	Total	ug/Kg dw
sediment	EPA 8270Cm	PCB 132/168	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 137	Total	ng/g dw
labwater	EPA 8082M	PCB 137	Total	ug/L
samplewater	EPA 8082M	PCB 137	Total	ug/L
sediment	EPA 8082M	PCB 137	Total	ng/g dw
blankmatrix	EPA 6020m	PCB 138	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 138	Total	ng/g dw
blankmatrix	EPA 8270	PCB 138	Total	ug/Kg dw
blankmatrix	GCMS	PCB 138	Total	ng/g dw
blankmatrix	GCMS	PCB 138	Total	ng/g ww
blankwater	EPA 625	PCB 138	Total	ug/L
blankwater	EPA 625M	PCB 138	Total	ug/L
blankwater	IONGCMS	PCB 138	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 138	Total	ug/Kg dw
labwater	EPA 8082M	PCB 138	Total	ug/L
runoff	EPA 625M	PCB 138	Total	ug/L
samplewater	EPA 625	PCB 138	Total	ug/L
samplewater	EPA 8082M	PCB 138	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 138	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 138	Total	ug/L
sediment	EPA 6020m	PCB 138	Total	ng/g dw
sediment	EPA 608M	PCB 138	Total	ug/Kg dw

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sediment	EPA 8082	PCB 138	Total	%
sediment	EPA 8082	PCB 138	Total	ng/g dw
sediment	EPA 8082	PCB 138	Total	ug/Kg dw
sediment	EPA 8082M	PCB 138	Total	ng/g dw
sediment	EPA 8270	PCB 138	Total	ug/Kg dw
sediment	EPA 8270C	PCB 138	Total	ng/g dw
sediment	EPA 8270C	PCB 138	Total	ng/g ww
sediment	EPA 8270Cm	PCB 138	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 138	Total	%
sediment	GCECD/GCMS	PCB 138	Total	ng/g dw
sediment	GCMS	PCB 138	Total	ng/g dw
sediment	IONGCMs	PCB 138	Total	ug/Kg dw
sediment	SW2081/8082	PCB 138	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 141	Total	ng/g dw
blankwater	EPA 625	PCB 141	Total	ug/L
blankwater	EPA 625M	PCB 141	Total	ug/L
labwater	EPA 8082M	PCB 141	Total	ug/L
runoff	EPA 625M	PCB 141	Total	ug/L
samplewater	EPA 625	PCB 141	Total	ug/L
samplewater	EPA 8082M	PCB 141	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 141	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 141	Total	ug/L
sediment	EPA 8082M	PCB 141	Total	ng/g dw
sediment	EPA 8270C	PCB 141	Total	ng/g dw
sediment	EPA 8270Cm	PCB 141	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 146	Total	ng/g dw
sediment	EPA 8082M	PCB 146	Total	ng/g dw
blankmatrix	EPA 6020m	PCB 149	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 149	Total	ng/g dw
blankmatrix	EPA 8270	PCB 149	Total	ug/Kg dw
blankmatrix	GCMS	PCB 149	Total	ng/g dw
blankmatrix	GCMS	PCB 149	Total	ng/g ww

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blankwater	EPA 625	PCB 149	Total	ug/L
blankwater	EPA 625M	PCB 149	Total	ug/L
blankwater	IONGCMS	PCB 149	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 149	Total	ug/Kg dw
labwater	EPA 8082M	PCB 149	Total	ug/L
runoff	EPA 625M	PCB 149	Total	ug/L
samplewater	EPA 625	PCB 149	Total	ug/L
samplewater	EPA 8082M	PCB 149	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 149	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 149	Total	ug/L
sediment	EPA 6020m	PCB 149	Total	ng/g dw
sediment	EPA 608M	PCB 149	Total	ug/Kg dw
sediment	EPA 8082	PCB 149	Total	ug/Kg dw
sediment	EPA 8082M	PCB 149	Total	ng/g dw
sediment	EPA 8270	PCB 149	Total	ug/Kg dw
sediment	EPA 8270C	PCB 149	Total	ng/g dw
sediment	EPA 8270Cm	PCB 149	Total	ug/Kg dw
sediment	GCMS	PCB 149	Total	ng/g dw
sediment	IONGCMS	PCB 149	Total	ug/Kg dw
sediment	SW2081/8082	PCB 149	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 151	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 151	Total	ng/g dw
blankmatrix	EPA 8270	PCB 151	Total	ug/Kg dw
blankmatrix	GCMS	PCB 151	Total	ng/g dw
blankmatrix	GCMS	PCB 151	Total	ng/g ww
blankwater	EPA 625	PCB 151	Total	ug/L
blankwater	EPA 625M	PCB 151	Total	ug/L
blankwater	IONGCMS	PCB 151	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 151	Total	ug/Kg dw
labwater	EPA 8082M	PCB 151	Total	ug/L
runoff	EPA 625M	PCB 151	Total	ug/L
samplewater	EPA 625	PCB 151	Total	ug/L

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samplewater	EPA 8082M	PCB 151	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 151	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 151	Total	ug/L
sediment	EPA 6020m	PCB 151	Total	ng/g dw
sediment	EPA 608M	PCB 151	Total	ug/Kg dw
sediment	EPA 8082	PCB 151	Total	ug/Kg dw
sediment	EPA 8082M	PCB 151	Total	ng/g dw
sediment	EPA 8270	PCB 151	Total	ug/Kg dw
sediment	EPA 8270C	PCB 151	Total	ng/g dw
sediment	EPA 8270Cm	PCB 151	Total	ug/Kg dw
sediment	GCMS	PCB 151	Total	ng/g dw
sediment	IONGCMS	PCB 151	Total	ug/Kg dw
sediment	SW2081/8082	PCB 151	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 153	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 153	Total	ng/g dw
blankmatrix	EPA 8270	PCB 153	Total	ug/Kg dw
blankmatrix	GCMS	PCB 153	Total	ng/g dw
blankmatrix	GCMS	PCB 153	Total	ng/g ww
blankwater	EPA 625	PCB 153	Total	ug/L
blankwater	EPA 625M	PCB 153	Total	ug/L
blankwater	SW2081/8082	PCB 153	Total	ug/Kg dw
labwater	EPA 8082M	PCB 153	Total	ug/L
runoff	EPA 625M	PCB 153	Total	ug/L
samplewater	EPA 625	PCB 153	Total	ug/L
samplewater	EPA 8082M	PCB 153	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 153	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 153	Total	ug/L
sediment	EPA 6020m	PCB 153	Total	ng/g dw
sediment	EPA 608M	PCB 153	Total	ug/Kg dw

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sediment	EPA 8082	PCB 153	Total	%
sediment	EPA 8082	PCB 153	Total	ng/g dw
sediment	EPA 8082M	PCB 153	Total	ng/g dw
sediment	EPA 8270	PCB 153	Total	ug/Kg dw
sediment	EPA 8270C	PCB 153	Total	ng/g dw
sediment	EPA 8270C	PCB 153	Total	ng/g ww
sediment	EPA 8270Cm	PCB 153	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 153	Total	%
sediment	GCECD/GCMS	PCB 153	Total	ng/g dw
sediment	GCMS	PCB 153	Total	ng/g dw
sediment	SW2081/8082	PCB 153	Total	ug/Kg dw
blankwater	IONGCMS	PCB 153/168	Total	ug/Kg dw
sediment	EPA 6020m	PCB 153/168	Total	ng/g dw
sediment	EPA 8082	PCB 153/168	Total	ug/Kg dw
sediment	EPA 8270Cm	PCB 153/168	Total	ug/Kg dw
sediment	GCMS	PCB 153/168	Total	ng/g dw
sediment	IONGCMS	PCB 153/168	Total	ug/Kg dw
sediment	SW2081/8082	PCB 153/168	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 156	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 156	Total	ng/g dw
blankmatrix	EPA 8270	PCB 156	Total	ug/Kg dw
blankmatrix	GCMS	PCB 156	Total	ng/g dw
blankmatrix	GCMS	PCB 156	Total	ng/g ww
blankwater	EPA 625	PCB 156	Total	ug/L
blankwater	EPA 625M	PCB 156	Total	ug/L
blankwater	IONGCMS	PCB 156	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 156	Total	ug/Kg dw
labwater	EPA 8082M	PCB 156	Total	ug/L
runoff	EPA 625M	PCB 156	Total	ug/L
samplewater	EPA 625	PCB 156	Total	ug/L
samplewater	EPA 8082M	PCB 156	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 156	Total	ug/L
samplewater, particulate, 63	EPA 625	PCB 156	Total	ug/L

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um to 2000 um				
sediment	EPA 6020m	PCB 156	Total	ng/g dw
sediment	EPA 608M	PCB 156	Total	ug/Kg dw
sediment	EPA 8082	PCB 156	Total	ug/Kg dw
sediment	EPA 8082M	PCB 156	Total	ng/g dw
sediment	EPA 8270	PCB 156	Total	ug/Kg dw
sediment	EPA 8270C	PCB 156	Total	ng/g dw
sediment	EPA 8270Cm	PCB 156	Total	ug/Kg dw
sediment	GCMS	PCB 156	Total	ng/g dw
sediment	IONGCMS	PCB 156	Total	ug/Kg dw
sediment	SW2081/8082	PCB 156	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 157	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 157	Total	ng/g dw
blankmatrix	EPA 8270	PCB 157	Total	ug/Kg dw
blankmatrix	GCMS	PCB 157	Total	ng/g dw
blankmatrix	GCMS	PCB 157	Total	ng/g ww
blankwater	EPA 625	PCB 157	Total	ug/L
blankwater	EPA 625M	PCB 157	Total	ug/L
blankwater	IONGCMS	PCB 157	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 157	Total	ug/Kg dw
labwater	EPA 8082M	PCB 157	Total	ug/L
runoff	EPA 625M	PCB 157	Total	ug/L
samplewater	EPA 625	PCB 157	Total	ug/L
samplewater	EPA 8082M	PCB 157	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 157	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 157	Total	ug/L
sediment	EPA 6020m	PCB 157	Total	ng/g dw
sediment	EPA 608M	PCB 157	Total	ug/Kg dw
sediment	EPA 8082	PCB 157	Total	ug/Kg dw
sediment	EPA 8082M	PCB 157	Total	ng/g dw
sediment	EPA 8270	PCB 157	Total	ug/Kg dw
sediment	EPA 8270C	PCB 157	Total	ng/g dw

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sediment	EPA 8270Cm	PCB 157	Total	ug/Kg dw
sediment	GCMS	PCB 157	Total	ng/g dw
sediment	IONGCMS	PCB 157	Total	ug/Kg dw
sediment	SW2081/8082	PCB 157	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 158	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 158	Total	ng/g dw
blankmatrix	EPA 8270	PCB 158	Total	ug/Kg dw
blankmatrix	GCMS	PCB 158	Total	ng/g dw
blankmatrix	GCMS	PCB 158	Total	ng/g ww
blankwater	EPA 625	PCB 158	Total	ug/L
blankwater	EPA 625M	PCB 158	Total	ug/L
blankwater	IONGCMS	PCB 158	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 158	Total	ug/Kg dw
labwater	EPA 8082M	PCB 158	Total	ug/L
runoff	EPA 625M	PCB 158	Total	ug/L
samplewater	EPA 625	PCB 158	Total	ug/L
samplewater	EPA 8082M	PCB 158	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 158	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 158	Total	ug/L
sediment	EPA 6020m	PCB 158	Total	ng/g dw
sediment	EPA 608M	PCB 158	Total	ug/Kg dw
sediment	EPA 8082	PCB 158	Total	ug/Kg dw
sediment	EPA 8082M	PCB 158	Total	ng/g dw
sediment	EPA 8270	PCB 158	Total	ug/Kg dw
sediment	EPA 8270C	PCB 158	Total	ng/g dw
sediment	EPA 8270Cm	PCB 158	Total	ug/Kg dw
sediment	GCMS	PCB 158	Total	ng/g dw
sediment	IONGCMS	PCB 158	Total	ug/Kg dw
sediment	SW2081/8082	PCB 158	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 167	Total	ug/Kg dw
blankmatrix	GCMS	PCB 167	Total	ng/g dw
blankmatrix	GCMS	PCB 167	Total	ng/g ww

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blankwater	EPA 625	PCB 167	Total	ug/L
blankwater	EPA 625M	PCB 167	Total	ug/L
blankwater	IONGCMS	PCB 167	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 167	Total	ug/Kg dw
runoff	EPA 625M	PCB 167	Total	ug/L
samplewater	EPA 625	PCB 167	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 167	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 167	Total	ug/L
sediment	EPA 6020m	PCB 167	Total	ng/g dw
sediment	EPA 608M	PCB 167	Total	ug/Kg dw
sediment	EPA 8082	PCB 167	Total	ug/Kg dw
sediment	EPA 8270C	PCB 167	Total	ng/g dw
sediment	EPA 8270Cm	PCB 167	Total	ug/Kg dw
sediment	GCMS	PCB 167	Total	ng/g dw
sediment	IONGCMS	PCB 167	Total	ug/Kg dw
sediment	SW2081/8082	PCB 167	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 168	Total	ug/Kg dw
blankmatrix	GCMS	PCB 168	Total	ng/g dw
blankmatrix	GCMS	PCB 168	Total	ng/g ww
blankwater	SW2081/8082	PCB 168	Total	ug/Kg dw
sediment	EPA 6020m	PCB 168	Total	ng/g dw
sediment	GCMS	PCB 168	Total	ng/g dw
sediment	SW2081/8082	PCB 168	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 169	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 169	Total	ng/g dw
blankmatrix	EPA 8270	PCB 169	Total	ug/Kg dw
blankmatrix	GCMS	PCB 169	Total	ng/g dw
blankmatrix	GCMS	PCB 169	Total	ng/g ww
blankwater	EPA 625	PCB 169	Total	ug/L
blankwater	EPA 625M	PCB 169	Total	ug/L
blankwater	IONGCMS	PCB 169	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 169	Total	ug/Kg dw

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runoff	EPA 625M	PCB 169	Total	ug/L
samplewater	EPA 625	PCB 169	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 169	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 169	Total	ug/L
sediment	EPA 6020m	PCB 169	Total	ng/g dw
sediment	EPA 608M	PCB 169	Total	ug/Kg dw
sediment	EPA 8082	PCB 169	Total	ug/Kg dw
sediment	EPA 8082M	PCB 169	Total	ng/g dw
sediment	EPA 8270	PCB 169	Total	ug/Kg dw
sediment	EPA 8270C	PCB 169	Total	ng/g dw
sediment	EPA 8270Cm	PCB 169	Total	ug/Kg dw
sediment	GCMS	PCB 169	Total	ng/g dw
sediment	IONGCMS	PCB 169	Total	ug/Kg dw
sediment	SW2081/8082	PCB 169	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 170	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 170	Total	ng/g dw
blankmatrix	EPA 8270	PCB 170	Total	ug/Kg dw
blankmatrix	GCMS	PCB 170	Total	ng/g dw
blankmatrix	GCMS	PCB 170	Total	ng/g ww
blankwater	EPA 625	PCB 170	Total	ug/L
blankwater	EPA 625M	PCB 170	Total	ug/L
blankwater	IONGCMS	PCB 170	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 170	Total	ug/Kg dw
labwater	EPA 8082M	PCB 170	Total	ug/L
runoff	EPA 625M	PCB 170	Total	ug/L
samplewater	EPA 625	PCB 170	Total	ug/L
samplewater	EPA 8082M	PCB 170	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 170	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 170	Total	ug/L

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sediment	EPA 6020m	PCB 170	Total	ng/g dw
sediment	EPA 608M	PCB 170	Total	ug/Kg dw
sediment	EPA 8082	PCB 170	Total	ng/g dw
sediment	EPA 8082	PCB 170	Total	ug/Kg dw
sediment	EPA 8082M	PCB 170	Total	ng/g dw
sediment	EPA 8270	PCB 170	Total	ug/Kg dw
sediment	EPA 8270C	PCB 170	Total	ng/g dw
sediment	EPA 8270C	PCB 170	Total	ng/g ww
sediment	EPA 8270Cm	PCB 170	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 170	Total	%
sediment	GCECD/GCMS	PCB 170	Total	ng/g dw
sediment	GCMS	PCB 170	Total	ng/g dw
sediment	IONGCMS	PCB 170	Total	ug/Kg dw
sediment	SW2081/8082	PCB 170	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 170/190	Total	ng/g dw
blankmatrix	EPA 8082M	PCB 174	Total	ng/g dw
blankwater	EPA 625	PCB 174	Total	ug/L
blankwater	EPA 625M	PCB 174	Total	ug/L
labwater	EPA 8082M	PCB 174	Total	ug/L
runoff	EPA 625M	PCB 174	Total	ug/L
samplewater	EPA 625	PCB 174	Total	ug/L
samplewater	EPA 8082M	PCB 174	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 174	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 174	Total	ug/L
sediment	EPA 8082M	PCB 174	Total	ng/g dw
sediment	EPA 8270C	PCB 174	Total	ng/g dw
sediment	EPA 8270Cm	PCB 174	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 177	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 177	Total	ng/g dw
blankmatrix	EPA 8270	PCB 177	Total	ug/Kg dw
blankmatrix	GCMS	PCB 177	Total	ng/g dw
blankmatrix	GCMS	PCB 177	Total	ng/g ww

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blankwater	EPA 625	PCB 177	Total	ug/L
blankwater	EPA 625M	PCB 177	Total	ug/L
blankwater	IONGCMS	PCB 177	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 177	Total	ug/Kg dw
labwater	EPA 8082M	PCB 177	Total	ug/L
runoff	EPA 625M	PCB 177	Total	ug/L
samplewater	EPA 625	PCB 177	Total	ug/L
samplewater	EPA 8082M	PCB 177	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 177	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 177	Total	ug/L
sediment	EPA 6020m	PCB 177	Total	ng/g dw
sediment	EPA 608M	PCB 177	Total	ug/Kg dw
sediment	EPA 8082	PCB 177	Total	ug/Kg dw
sediment	EPA 8082M	PCB 177	Total	ng/g dw
sediment	EPA 8270	PCB 177	Total	ug/Kg dw
sediment	EPA 8270C	PCB 177	Total	ng/g dw
sediment	EPA 8270Cm	PCB 177	Total	ug/Kg dw
sediment	GCMS	PCB 177	Total	ng/g dw
sediment	IONGCMS	PCB 177	Total	ug/Kg dw
sediment	SW2081/8082	PCB 177	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 180	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 180	Total	ng/g dw
blankmatrix	EPA 8270	PCB 180	Total	ug/Kg dw
blankmatrix	GCMS	PCB 180	Total	ng/g dw
blankmatrix	GCMS	PCB 180	Total	ng/g ww
blankwater	EPA 625	PCB 180	Total	ug/L
blankwater	EPA 625M	PCB 180	Total	ug/L
blankwater	IONGCMS	PCB 180	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 180	Total	ug/Kg dw
labwater	EPA 8082M	PCB 180	Total	ug/L
runoff	EPA 625M	PCB 180	Total	ug/L
samplewater	EPA 625	PCB 180	Total	ug/L

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samplewater	EPA 8082M	PCB 180	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 180	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 180	Total	ug/L
sediment	EPA 6020m	PCB 180	Total	ng/g dw
sediment	EPA 608M	PCB 180	Total	ug/Kg dw
sediment	EPA 8082	PCB 180	Total	%
sediment	EPA 8082	PCB 180	Total	ng/g dw
sediment	EPA 8082	PCB 180	Total	ug/Kg dw
sediment	EPA 8082M	PCB 180	Total	ng/g dw
sediment	EPA 8270	PCB 180	Total	ug/Kg dw
sediment	EPA 8270C	PCB 180	Total	ng/g dw
sediment	EPA 8270C	PCB 180	Total	ng/g ww
sediment	EPA 8270Cm	PCB 180	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 180	Total	%
sediment	GCECD/GCMS	PCB 180	Total	ng/g dw
sediment	GCMS	PCB 180	Total	ng/g dw
sediment	IONGCMs	PCB 180	Total	ug/Kg dw
sediment	SW2081/8082	PCB 180	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 183	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 183	Total	ng/g dw
blankmatrix	EPA 8270	PCB 183	Total	ug/Kg dw
blankmatrix	GCMS	PCB 183	Total	ng/g dw
blankmatrix	GCMS	PCB 183	Total	ng/g ww
blankwater	EPA 625	PCB 183	Total	ug/L
blankwater	EPA 625M	PCB 183	Total	ug/L
blankwater	IONGCMs	PCB 183	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 183	Total	ug/Kg dw
labwater	EPA 8082M	PCB 183	Total	ug/L
runoff	EPA 625M	PCB 183	Total	ug/L
samplewater	EPA 625	PCB 183	Total	ug/L
samplewater	EPA 8082M	PCB 183	Total	ug/L
samplewater,	EPA 625	PCB 183	Total	ug/L

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particulate, <63 um				
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 183	Total	ug/L
sediment	EPA 6020m	PCB 183	Total	ng/g dw
sediment	EPA 608M	PCB 183	Total	ug/Kg dw
sediment	EPA 8082	PCB 183	Total	ug/Kg dw
sediment	EPA 8082M	PCB 183	Total	ng/g dw
sediment	EPA 8270	PCB 183	Total	ug/Kg dw
sediment	EPA 8270C	PCB 183	Total	ng/g dw
sediment	EPA 8270Cm	PCB 183	Total	ug/Kg dw
sediment	GCMS	PCB 183	Total	ng/g dw
sediment	IONGCMS	PCB 183	Total	ug/Kg dw
sediment	SW2081/8082	PCB 183	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 187	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 187	Total	ng/g dw
blankmatrix	EPA 8270	PCB 187	Total	ug/Kg dw
blankmatrix	GCMS	PCB 187	Total	ng/g dw
blankmatrix	GCMS	PCB 187	Total	ng/g ww
blankwater	EPA 625	PCB 187	Total	ug/L
blankwater	EPA 625M	PCB 187	Total	ug/L
blankwater	IONGCMS	PCB 187	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 187	Total	ug/Kg dw
labwater	EPA 8082M	PCB 187	Total	ug/L
runoff	EPA 625M	PCB 187	Total	ug/L
samplewater	EPA 625	PCB 187	Total	ug/L
samplewater	EPA 8082M	PCB 187	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 187	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 187	Total	ug/L
sediment	EPA 6020m	PCB 187	Total	ng/g dw
sediment	EPA 608M	PCB 187	Total	ug/Kg dw
sediment	EPA 8082	PCB 187	Total	ng/g dw

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sediment	EPA 8082	PCB 187	Total	ug/Kg dw
sediment	EPA 8082M	PCB 187	Total	ng/g dw
sediment	EPA 8270	PCB 187	Total	ug/Kg dw
sediment	EPA 8270C	PCB 187	Total	ng/g dw
sediment	EPA 8270C	PCB 187	Total	ng/g ww
sediment	EPA 8270Cm	PCB 187	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 187	Total	%
sediment	GCECD/GCMS	PCB 187	Total	ng/g dw
sediment	GCMS	PCB 187	Total	ng/g dw
sediment	IONGCMS	PCB 187	Total	ug/Kg dw
sediment	SW2081/8082	PCB 187	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 189	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 189	Total	ng/g dw
blankmatrix	EPA 8270	PCB 189	Total	ug/Kg dw
blankmatrix	GCMS	PCB 189	Total	ng/g dw
blankmatrix	GCMS	PCB 189	Total	ng/g ww
blankwater	EPA 625	PCB 189	Total	ug/L
blankwater	EPA 625M	PCB 189	Total	ug/L
blankwater	IONGCMS	PCB 189	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 189	Total	ug/Kg dw
labwater	EPA 8082M	PCB 189	Total	ug/L
runoff	EPA 625M	PCB 189	Total	ug/L
samplewater	EPA 625	PCB 189	Total	ug/L
samplewater	EPA 8082M	PCB 189	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 189	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 189	Total	ug/L
sediment	EPA 6020m	PCB 189	Total	ng/g dw
sediment	EPA 608M	PCB 189	Total	ug/Kg dw
sediment	EPA 8082	PCB 189	Total	ug/Kg dw
sediment	EPA 8082M	PCB 189	Total	ng/g dw
sediment	EPA 8270	PCB 189	Total	ug/Kg dw
sediment	EPA 8270C	PCB 189	Total	ng/g dw

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sediment	EPA 8270Cm	PCB 189	Total	ug/Kg dw
sediment	GCMS	PCB 189	Total	ng/g dw
sediment	IONGCMS	PCB 189	Total	ug/Kg dw
sediment	SW2081/8082	PCB 189	Total	ug/Kg dw
sediment	EPA 8270Cm	PCB 191(Surrogate)	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 194	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 194	Total	ng/g dw
blankmatrix	EPA 8270	PCB 194	Total	ug/Kg dw
blankmatrix	GCMS	PCB 194	Total	ng/g dw
blankmatrix	GCMS	PCB 194	Total	ng/g ww
blankwater	EPA 625	PCB 194	Total	ug/L
blankwater	EPA 625M	PCB 194	Total	ug/L
blankwater	IONGCMS	PCB 194	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 194	Total	ug/Kg dw
labwater	EPA 8082M	PCB 194	Total	ug/L
runoff	EPA 625M	PCB 194	Total	ug/L
samplewater	EPA 625	PCB 194	Total	ug/L
samplewater	EPA 8082M	PCB 194	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 194	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 194	Total	ug/L
sediment	EPA 6020m	PCB 194	Total	ng/g dw
sediment	EPA 608M	PCB 194	Total	ug/Kg dw
sediment	EPA 8082	PCB 194	Total	ug/Kg dw
sediment	EPA 8082M	PCB 194	Total	ng/g dw
sediment	EPA 8270	PCB 194	Total	ug/Kg dw
sediment	EPA 8270C	PCB 194	Total	ng/g dw
sediment	EPA 8270Cm	PCB 194	Total	ug/Kg dw
sediment	GCMS	PCB 194	Total	ng/g dw
sediment	IONGCMS	PCB 194	Total	ug/Kg dw
sediment	SW2081/8082	PCB 194	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 195	Total	ng/g dw
blankwater	EPA 625	PCB 195	Total	ug/L

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blankwater	EPA 625M	PCB 195	Total	ug/L
labwater	EPA 8082M	PCB 195	Total	ug/L
runoff	EPA 625M	PCB 195	Total	ug/L
samplewater	EPA 625	PCB 195	Total	ug/L
samplewater	EPA 8082M	PCB 195	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 195	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 195	Total	ug/L
sediment	EPA 8082	PCB 195	Total	ng/g dw
sediment	EPA 8082M	PCB 195	Total	ng/g dw
sediment	EPA 8270C	PCB 195	Total	ng/g dw
sediment	EPA 8270C	PCB 195	Total	ng/g ww
sediment	EPA 8270Cm	PCB 195	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 195	Total	%
sediment	GCECD/GCMS	PCB 195	Total	ng/g dw
sediment	GCMS	PCB 195	Total	ng/g dw
sediment	GCECD/GCMS	PCB 195/208	Total	ng/g dw
blankwater	EPA 625M	PCB 198	Total	ug/L
runoff	EPA 625M	PCB 198	Total	ug/L
blankwater	EPA 625	PCB 198(Surrogate)	Total	ng/L
blankwater	EPA 625	PCB 198(Surrogate)	Total	ug/L
samplewater	EPA 625	PCB 198(Surrogate)	Total	ng/L
samplewater	EPA 625	PCB 198(Surrogate)	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 198(Surrogate)	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 198(Surrogate)	Total	ug/L
sediment	EPA 8270C	PCB 198(Surrogate)	Total	ng/g dw
sediment	EPA 8270C	PCB 198(Surrogate)	Total	ng/g ww
sediment	EPA 8270Cm	PCB 198(Surrogate)	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 198/199	Total	ng/g dw
sediment	EPA 8082M	PCB 198/199	Total	ng/g dw

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blankmatrix	EPA 8082M	PCB 200	Total	ng/g dw
blankwater	EPA 625	PCB 200	Total	ug/L
blankwater	EPA 625M	PCB 200	Total	ug/L
labwater	EPA 8082M	PCB 200	Total	ug/L
runoff	EPA 625M	PCB 200	Total	ug/L
samplewater	EPA 625	PCB 200	Total	ug/L
samplewater	EPA 8082M	PCB 200	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 200	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 200	Total	ug/L
sediment	EPA 8082M	PCB 200	Total	ng/g dw
sediment	EPA 8270C	PCB 200	Total	ng/g dw
sediment	EPA 8270Cm	PCB 200	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 201	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 201	Total	ng/g dw
blankmatrix	EPA 8270	PCB 201	Total	ug/Kg dw
blankmatrix	GCMS	PCB 201	Total	ng/g dw
blankmatrix	GCMS	PCB 201	Total	ng/g ww
blankwater	EPA 625	PCB 201	Total	ug/L
blankwater	EPA 625M	PCB 201	Total	ug/L
blankwater	IONGCMS	PCB 201	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 201	Total	ug/Kg dw
labwater	EPA 8082M	PCB 201	Total	ug/L
runoff	EPA 625M	PCB 201	Total	ug/L
samplewater	EPA 625	PCB 201	Total	ug/L
samplewater	EPA 8082M	PCB 201	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 201	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 201	Total	ug/L
sediment	EPA 6020m	PCB 201	Total	ng/g dw
sediment	EPA 608M	PCB 201	Total	ug/Kg dw

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sediment	EPA 8082	PCB 201	Total	ug/Kg dw
sediment	EPA 8082M	PCB 201	Total	ng/g dw
sediment	EPA 8270	PCB 201	Total	ug/Kg dw
sediment	EPA 8270C	PCB 201	Total	ng/g dw
sediment	EPA 8270Cm	PCB 201	Total	ug/Kg dw
sediment	GCMS	PCB 201	Total	ng/g dw
sediment	IONGCMS	PCB 201	Total	ug/Kg dw
sediment	SW2081/8082	PCB 201	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 203	Total	ng/g dw
blankwater	EPA 625	PCB 203	Total	ug/L
blankwater	EPA 625M	PCB 203	Total	ug/L
labwater	EPA 8082M	PCB 203	Total	ug/L
runoff	EPA 625M	PCB 203	Total	ug/L
samplewater	EPA 625	PCB 203	Total	ug/L
samplewater	EPA 8082M	PCB 203	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 203	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 203	Total	ug/L
sediment	EPA 8082M	PCB 203	Total	ng/g dw
sediment	EPA 8270C	PCB 203	Total	ng/g dw
sediment	EPA 8270Cm	PCB 203	Total	ug/Kg dw
blankmatrix	EPA 6020m	PCB 206	Total	ug/Kg dw
blankmatrix	EPA 8082M	PCB 206	Total	ng/g dw
blankmatrix	EPA 8270	PCB 206	Total	ug/Kg dw
blankmatrix	GCMS	PCB 206	Total	ng/g dw
blankmatrix	GCMS	PCB 206	Total	ng/g ww
blankwater	EPA 625	PCB 206	Total	ug/L
blankwater	EPA 625M	PCB 206	Total	ug/L
blankwater	IONGCMS	PCB 206	Total	ug/Kg dw
blankwater	SW2081/8082	PCB 206	Total	ug/Kg dw
labwater	EPA 8082M	PCB 206	Total	ug/L
runoff	EPA 625M	PCB 206	Total	ug/L
samplewater	EPA 625	PCB 206	Total	ug/L

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samplewater	EPA 8082M	PCB 206	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 206	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 206	Total	ug/L
sediment	EPA 6020m	PCB 206	Total	ng/g dw
sediment	EPA 608M	PCB 206	Total	ug/Kg dw
sediment	EPA 8082	PCB 206	Total	ng/g dw
sediment	EPA 8082	PCB 206	Total	ug/Kg dw
sediment	EPA 8082M	PCB 206	Total	ng/g dw
sediment	EPA 8270	PCB 206	Total	ug/Kg dw
sediment	EPA 8270C	PCB 206	Total	ng/g dw
sediment	EPA 8270C	PCB 206	Total	ng/g ww
sediment	EPA 8270Cm	PCB 206	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 206	Total	%
sediment	GCECD/GCMS	PCB 206	Total	ng/g dw
sediment	GCMS	PCB 206	Total	ng/g dw
sediment	IONGCMS	PCB 206	Total	ug/Kg dw
sediment	SW2081/8082	PCB 206	Total	ug/Kg dw
labwater	EPA 8081BM	PCB 207(Surrogate)	Total	% Recovery
labwater	EPA 8082M	PCB 207(Surrogate)	Total	% Recovery
samplewater	EPA 8081BM	PCB 207(Surrogate)	Total	% Recovery
samplewater	EPA 8082M	PCB 207(Surrogate)	Total	% Recovery
blankmatrix	EPA 8082M	PCB 209	Total	ng/g dw
blankwater	EPA 608	PCB 209	Total	ug/L
blankwater	EPA 625	PCB 209	Total	ug/L
blankwater	EPA 625M	PCB 209	Total	ug/L
labwater	EPA 8082M	PCB 209	Total	ug/L
runoff	EPA 608	PCB 209	Total	ug/L
runoff	EPA 625M	PCB 209	Total	ug/L
samplewater	EPA 625	PCB 209	Total	ug/L
samplewater	EPA 8082M	PCB 209	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB 209	Total	ug/L

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samplewater, particulate, 63 um to 2000 um	EPA 625	PCB 209	Total	ug/L
sediment	EPA 8082	PCB 209	Total	%
sediment	EPA 8082	PCB 209	Total	ng/g dw
sediment	EPA 8082M	PCB 209	Total	ng/g dw
sediment	EPA 8270C	PCB 209	Total	ng/g dw
sediment	EPA 8270C	PCB 209	Total	ng/g ww
sediment	EPA 8270Cm	PCB 209	Total	ug/Kg dw
sediment	GCECD/GCMS	PCB 209	Total	%
sediment	GCECD/GCMS	PCB 209	Total	ng/g dw
sediment	GCMS	PCB 209	Total	ng/g dw
blankmatrix	EPA 8082M	PCB 209(Surrogate)	Total	% Recovery
sediment	EPA 8082M	PCB 209(Surrogate)	Total	% Recovery
sediment	GCMS	PCB 209(Surrogate)	Total	ng/g dw
sediment	SW2081/8082	PCB 209(Surrogate)	Total	ug/Kg dw
blankwater	EPA 608	PCB AROCLOR 1016	Total	ug/L
blankwater	EPA 625	PCB AROCLOR 1016	Total	ug/L
blankwater	EPA 625M	PCB AROCLOR 1016	Total	ug/L
runoff	EPA 608	PCB AROCLOR 1016	Total	ug/L
runoff	EPA 625M	PCB AROCLOR 1016	Total	ug/L
samplewater	EPA 608	PCB AROCLOR 1016	Total	ug/L
samplewater	EPA 608M	PCB AROCLOR 1016	Total	ug/L
samplewater	EPA 625	PCB AROCLOR 1016	Dissolved	ug/L
samplewater	EPA 625	PCB AROCLOR 1016	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB AROCLOR 1016	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB AROCLOR 1016	Total	ug/L
blankwater	EPA 608	PCB AROCLOR 1221	Total	ug/L
blankwater	EPA 625	PCB AROCLOR 1221	Total	ug/L
blankwater	EPA 625M	PCB AROCLOR 1221	Total	ug/L
runoff	EPA 608	PCB AROCLOR 1221	Total	ug/L
runoff	EPA 625M	PCB AROCLOR 1221	Total	ug/L
samplewater	EPA 608	PCB AROCLOR 1221	Total	ug/L

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samplewater	EPA 608M	PCB AROCLOR 1221	Total	ug/L
samplewater	EPA 625	PCB AROCLOR 1221	Dissolved	ug/L
samplewater	EPA 625	PCB AROCLOR 1221	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB AROCLOR 1221	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB AROCLOR 1221	Total	ug/L
blankwater	EPA 608	PCB AROCLOR 1232	Total	ug/L
blankwater	EPA 625	PCB AROCLOR 1232	Total	ug/L
blankwater	EPA 625M	PCB AROCLOR 1232	Total	ug/L
runoff	EPA 608	PCB AROCLOR 1232	Total	ug/L
runoff	EPA 625M	PCB AROCLOR 1232	Total	ug/L
samplewater	EPA 608	PCB AROCLOR 1232	Total	ug/L
samplewater	EPA 608M	PCB AROCLOR 1232	Total	ug/L
samplewater	EPA 625	PCB AROCLOR 1232	Dissolved	ug/L
samplewater	EPA 625	PCB AROCLOR 1232	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB AROCLOR 1232	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB AROCLOR 1232	Total	ug/L
blankwater	EPA 608	PCB AROCLOR 1242	Total	ug/L
blankwater	EPA 625	PCB AROCLOR 1242	Total	ug/L
blankwater	EPA 625M	PCB AROCLOR 1242	Total	ug/L
runoff	EPA 608	PCB AROCLOR 1242	Total	ug/L
runoff	EPA 625M	PCB AROCLOR 1242	Total	ug/L
samplewater	EPA 608	PCB AROCLOR 1242	Total	ug/L
samplewater	EPA 608M	PCB AROCLOR 1242	Total	ug/L
samplewater	EPA 625	PCB AROCLOR 1242	Dissolved	ug/L
samplewater	EPA 625	PCB AROCLOR 1242	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB AROCLOR 1242	Total	ug/L
samplewater, particulate, 63	EPA 625	PCB AROCLOR 1242	Total	ug/L

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um to 2000 um				
blankmatrix	Newman, et al., 1988	PCB AROCLOR 1248	Total	ng/g dw
blankwater	EPA 608	PCB AROCLOR 1248	Total	ug/L
blankwater	EPA 625	PCB AROCLOR 1248	Total	ug/L
blankwater	EPA 625M	PCB AROCLOR 1248	Total	ug/L
labwater	Newman, et al., 1988	PCB AROCLOR 1248	Total	ug/L
runoff	EPA 608	PCB AROCLOR 1248	Total	ug/L
runoff	EPA 625M	PCB AROCLOR 1248	Total	ug/L
samplewater	EPA 608	PCB AROCLOR 1248	Total	ug/L
samplewater	EPA 608M	PCB AROCLOR 1248	Total	ug/L
samplewater	EPA 625	PCB AROCLOR 1248	Dissolved	ug/L
samplewater	EPA 625	PCB AROCLOR 1248	Total	ug/L
samplewater	Newman, et al., 1988	PCB AROCLOR 1248	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB AROCLOR 1248	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB AROCLOR 1248	Total	ug/L
sediment	Newman, et al., 1988	PCB AROCLOR 1248	Total	ng/g dw
blankmatrix	Newman, et al., 1988	PCB AROCLOR 1254	Total	ng/g dw
blankwater	EPA 608	PCB AROCLOR 1254	Total	ug/L
blankwater	EPA 625	PCB AROCLOR 1254	Total	ug/L
blankwater	EPA 625M	PCB AROCLOR 1254	Total	ug/L
labwater	Newman, et al., 1988	PCB AROCLOR 1254	Total	ug/L
runoff	EPA 608	PCB AROCLOR 1254	Total	ug/L
runoff	EPA 625M	PCB AROCLOR 1254	Total	ug/L
samplewater	EPA 608	PCB AROCLOR 1254	Total	ug/L
samplewater	EPA 608M	PCB AROCLOR 1254	Total	ug/L
samplewater	EPA 625	PCB AROCLOR 1254	Dissolved	ug/L
samplewater	EPA 625	PCB AROCLOR 1254	Total	ug/L
samplewater	Newman, et al., 1988	PCB AROCLOR 1254	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB AROCLOR 1254	Total	ug/L
samplewater, particulate, 63	EPA 625	PCB AROCLOR 1254	Total	ug/L

um to 2000 um				
sediment	Newman, et al., 1988	PCB AROCLOR 1254	Total	ng/g dw
blankmatrix	Newman, et al., 1988	PCB AROCLOR 1260	Total	ng/g dw
blankwater	EPA 608	PCB AROCLOR 1260	Total	ug/L
blankwater	EPA 625	PCB AROCLOR 1260	Total	ug/L
blankwater	EPA 625M	PCB AROCLOR 1260	Total	ug/L
labwater	Newman, et al., 1988	PCB AROCLOR 1260	Total	ug/L
runoff	EPA 608	PCB AROCLOR 1260	Total	ug/L
runoff	EPA 625M	PCB AROCLOR 1260	Total	ug/L
samplewater	EPA 608	PCB AROCLOR 1260	Total	ug/L
samplewater	EPA 608M	PCB AROCLOR 1260	Total	ug/L
samplewater	EPA 625	PCB AROCLOR 1260	Dissolved	ug/L
samplewater	EPA 625	PCB AROCLOR 1260	Total	ug/L
samplewater	Newman, et al., 1988	PCB AROCLOR 1260	Total	ug/L
samplewater, particulate, <63 um	EPA 625	PCB AROCLOR 1260	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	PCB AROCLOR 1260	Total	ug/L
sediment	Newman, et al., 1988	PCB AROCLOR 1260	Total	ng/g dw
sediment	Plumb, 1981, GS	Pebble	Small 4 to <8 mm	%
blankwater	EPA 515.3	Pentachlorophenol	Total	ug/L
blankwater	EPA 625M	Pentachlorophenol	Total	ug/L
runoff	EPA 515.3	Pentachlorophenol	Total	ug/L
runoff	EPA 625M	Pentachlorophenol	Total	ug/L
blankwater	EPA 314.0	Perchlorate	Total	ug/L
runoff	EPA 314.0	Perchlorate	Total	ug/L
blankmatrix	EPA 8081BM	Permethrin, cis-	Total	ng/g dw
labwater	EPA 8081BM	Permethrin, cis-	Total	ug/L
samplewater	EPA 8081BM	Permethrin, cis-	Total	ug/L
sediment	EPA 8081BM	Permethrin, cis-	Total	ng/g dw
sediment	EPA 8270Cm	Permethrin, cis-	Total	ug/Kg dw
blankmatrix	EPA 8081BM	Permethrin, Total	Total	ng/g dw
blankwater	EPA 625	Permethrin, Total	Total	ug/L
blankwater	EPA 8270	Permethrin, Total	Total	ug/L

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blankwater	EPA 8270C	Permethrin, Total	Total	ug/L
samplewater	EPA 625	Permethrin, Total	Total	ug/L
samplewater	EPA 8270	Permethrin, Total	Total	ug/L
samplewater	EPA 8270C	Permethrin, Total	Total	ug/L
samplewater, particulate, <63 um	EPA 625	Permethrin, Total	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	Permethrin, Total	Total	ug/L
sediment	EPA 8081BM	Permethrin, Total	Total	ng/g dw
blankmatrix	EPA 8081BM	Permethrin, trans-	Total	ng/g dw
labwater	EPA 8081BM	Permethrin, trans-	Total	ug/L
samplewater	EPA 8081BM	Permethrin, trans-	Total	ug/L
sediment	EPA 8081BM	Permethrin, trans-	Total	ng/g dw
sediment	EPA 8270Cm	Permethrin, trans-	Total	ug/Kg dw
blankmatrix	EPA 8081BM	Permethrin-13C6, cis- (Surrogate)	Total	% Recovery
sediment	EPA 8081BM	Permethrin-13C6, cis- (Surrogate)	Total	% Recovery
sediment	EPA 8270Cm	Perthane	Total	ug/Kg dw
blankmatrix	EPA 8270	Perylene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Perylene	Total	ng/g dw
blankmatrix	GCMS	Perylene	Total	ng/g dw
blankwater	EPA 625M	Perylene	Total	ug/L
blankwater	EPA 8270	Perylene	Total	ug/Kg dw
blankwater	GCMS	Perylene	Total	ug/Kg dw
runoff	EPA 625M	Perylene	Total	ug/L
sediment	EPA 8270	Perylene	Total	ug/Kg dw
sediment	EPA 8270C	Perylene	Total	ng/g dw
sediment	EPA 8270C	Perylene	Total	ug/Kg dw
sediment	EPA 8270Cm	Perylene	Total	ug/Kg dw
sediment	EPA 8270M	Perylene	Total	ng/g dw
sediment	GCMS	Perylene	Total	ng/g dw
sediment	GCMS	Perylene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Perylene- d12(Surrogate)	Total	% Recovery

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blankwater	EPA 525.2	Perylene-d12(Surrogate)	Total	ug/L
runoff	EPA 525.2	Perylene-d12(Surrogate)	Total	ug/L
sediment	EPA 8270C	Perylene-d12(Surrogate)	Total	ng/g dw
sediment	EPA 8270C	Perylene-d12(Surrogate)	Total	ng/g ww
sediment	EPA 8270Cm	Perylene-d12(Surrogate)	Total	ug/Kg dw
sediment	EPA 8270M	Perylene-d12(Surrogate)	Total	% Recovery
Not Applicable	None	pH	None	none
overlyingwater	ToxWQMeasurement	pH	None	none
runoff	SM 4500-H+ B	pH	None	none
samplewater	FieldMeasure	pH	None	none
samplewater	SM 4500-H+ B	pH	None	none
samplewater	WRS 10A.1	pH	None	none
sediment, interstitialwater	ToxWQMeasurement	pH	None	none
blankmatrix	EPA 8270	Phenanthrene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Phenanthrene	Total	ng/g dw
blankmatrix	GCMS	Phenanthrene	Total	ng/g dw
blankwater	EPA 625	Phenanthrene	Total	ug/L
blankwater	EPA 625M	Phenanthrene	Total	ug/L
blankwater	EPA 8270	Phenanthrene	Total	ug/Kg dw
blankwater	EPA 8270Cm	Phenanthrene	Total	ug/L
blankwater	GCMS	Phenanthrene	Total	ug/Kg dw
runoff	EPA 625	Phenanthrene	Total	ug/L
runoff	EPA 625M	Phenanthrene	Total	ug/L
runoff	EPA 8270Cm	Phenanthrene	Total	ug/L
sediment	EPA 8270	Phenanthrene	Total	ng/g dw
sediment	EPA 8270	Phenanthrene	Total	ug/Kg dw
sediment	EPA 8270C	Phenanthrene	Total	ng/g dw
sediment	EPA 8270C	Phenanthrene	Total	ng/g ww
sediment	EPA 8270C	Phenanthrene	Total	ug/Kg dw
sediment	EPA 8270Cm	Phenanthrene	Total	ug/Kg dw
sediment	EPA 8270M	Phenanthrene	Total	ng/g dw

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sediment	GCMS	Phenanthrene	Total	ng/g dw
sediment	GCMS	Phenanthrene	Total	ug/Kg dw
sediment	SW8270C	Phenanthrene	Total	ng/g dw
blankmatrix	EPA 8270M	Phenanthrene/Anthracene, C1-	Total	ng/g dw
sediment	EPA 8270M	Phenanthrene/Anthracene, C1-	Total	ng/g dw
blankmatrix	EPA 8270M	Phenanthrene/Anthracene, C2-	Total	ng/g dw
sediment	EPA 8270M	Phenanthrene/Anthracene, C2-	Total	ng/g dw
blankmatrix	EPA 8270M	Phenanthrene/Anthracene, C3-	Total	ng/g dw
sediment	EPA 8270M	Phenanthrene/Anthracene, C3-	Total	ng/g dw
blankmatrix	EPA 8270M	Phenanthrene/Anthracene, C4-	Total	ng/g dw
sediment	EPA 8270M	Phenanthrene/Anthracene, C4-	Total	ng/g dw
blankmatrix	EPA 8270M	Phenanthrene-d10(Surrogate)	Total	% Recovery
sediment	EPA 8270C	Phenanthrene-d10(Surrogate)	Total	ng/g dw
sediment	EPA 8270C	Phenanthrene-d10(Surrogate)	Total	ng/g ww
sediment	EPA 8270Cm	Phenanthrene-d10(Surrogate)	Total	ug/Kg dw
sediment	EPA 8270M	Phenanthrene-d10(Surrogate)	Total	% Recovery
sediment	GCMS	Phenanthrene-d10(Surrogate)	Total	ng/g dw
blankwater	EPA 625	Phenol	Total	ug/L
blankwater	EPA 625M	Phenol	Total	ug/L
blankwater	EPA 8270Cm	Phenol	Total	ug/L
runoff	EPA 625	Phenol	Total	ug/L
runoff	EPA 625M	Phenol	Total	ug/L
runoff	EPA 8270Cm	Phenol	Total	ug/L
blankwater	EPA 625	Phenol-d5(Surrogate)	Total	ug/L
blankwater	EPA 8270Cm	Phenol-d5(Surrogate)	Total	ug/L
runoff	EPA 625	Phenol-d5(Surrogate)	Total	ug/L

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runoff	EPA 8270Cm	Phenol-d5(Surrogate)	Total	ug/L
blankwater	EPA 420.4	Phenolics, Total	Total	mg/L
runoff	EPA 420.4	Phenolics, Total	Total	mg/L
blankmatrix	EPA 8081BM	Phenothrin	Total	ng/g dw
sediment	EPA 8081BM	Phenothrin	Total	ng/g dw
blankwater	EPA 525.2	Phorate	Total	ug/L
blankwater	EPA 625	Phorate	Total	ng/L
blankwater	EPA 625M	Phorate	Total	ug/L
labwater	EPA 8141AM	Phorate	Total	ug/L
runoff	EPA 525.2	Phorate	Total	ug/L
runoff	EPA 625M	Phorate	Total	ug/L
samplewater	EPA 625	Phorate	Total	ng/L
samplewater	EPA 8141AM	Phorate	Total	ug/L
sediment	EPA 8270C	Phorate	Total	ng/g dw
sediment	EPA 8270Cm	Phorate	Total	ug/Kg dw
labwater	EPA 8141AM	Phosmet	Total	ug/L
samplewater	EPA 8141AM	Phosmet	Total	ug/L
blankmatrix	EPA 8141AM	Phosphamidon	Total	ng/g dw
labwater	EPA 8141AM	Phosphamidon	Total	ug/L
samplewater	EPA 8141AM	Phosphamidon	Total	ug/L
sediment	EPA 8141AM	Phosphamidon	Total	ng/g dw
blankwater	SM 4500-P E	Phosphate as P	Total	mg/L
samplewater	Alpkem RFA 300 Series Nutrient Analyzer	Phosphate as P	Total	umol/g
samplewater	Alpkem RFA 300 Series Nutrient Analyzer	Phosphate as P	Total	umol/L
samplewater	SM 4500-P E	Phosphate as P	Total	mg/L
blankwater	EPA 365.1	Phosphorus as P	Total	mg/L
blankwater	QC 10115012B	Phosphorus as P	Total	mg/L
blankwater	SM 4500-P E	Phosphorus as P	Total	mg/L
runoff	EPA 365.1	Phosphorus as P	Dissolved	mg/L
runoff	EPA 365.1	Phosphorus as P	Total	mg/L
runoff	SM 4500-P E	Phosphorus as P	Dissolved	mg/L
runoff	SM 4500-P E	Phosphorus as P	Total	mg/L
samplewater	QC 10115012B	Phosphorus as P	Total	mg/L
samplewater	SM 4500-P E	Phosphorus as P	Total	mg/L

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blankwater	EPA 515.3	Picloram	Total	ug/L
runoff	EPA 515.3	Picloram	Total	ug/L
habitat	FieldObservations	PictureCode	None	none
habitat	FieldObservations	Pipes, Drains	None	none
habitat	ObservedFieldMeasure	Pool	None	%
habitat	FieldObservations	Pool Form	None	none
habitat	FieldObservations	Position	None	none
habitat	FieldObservations	Poultry	None	none
habitat	FieldObservations	Power Plants	None	none
blankmatrix	EPA 8081BM	Prallethrin	Total	ng/g dw
blankwater	EPA 625	Prallethrin	Total	ug/L
samplewater	EPA 625	Prallethrin	Total	ug/L
sediment	EPA 8081BM	Prallethrin	Total	ng/g dw
sediment	EPA 8270Cm	Prallethrin	Total	ug/Kg dw
habitat	FieldObservations	Precipitation	None	none
habitat	FieldObservations	PrecipitationLast24hrs	None	none
habitat	FieldObservations	Primitive Parks, Camping	None	none
blankwater	EPA 525.2	Prometon	Total	ug/L
runoff	EPA 525.2	Prometon	Total	ug/L
blankwater	EPA 525.2	Prometryn	Total	ug/L
blankwater	EPA 625	Prometryn	Total	ug/L
runoff	EPA 525.2	Prometryn	Total	ug/L
samplewater	EPA 525.2	Prometryn	Total	ug/L
samplewater	EPA 625	Prometryn	Total	ug/L
habitat	ObservedFieldMeasure	Proportion	First Supplemental	%
habitat	ObservedFieldMeasure	Proportion	Main	%
habitat	ObservedFieldMeasure	Proportion	Second Supplemental	%
habitat	ObservedFieldMeasure	Proportion	Third Supplemental	%
samplewater	Light Microscopy	Pseudo-nitzschia	None	cells/mL
blankmatrix	EPA 8270	Pyrene	Total	ug/Kg dw
blankmatrix	EPA 8270M	Pyrene	Total	ng/g dw
blankmatrix	GCMS	Pyrene	Total	ng/g dw
blankwater	EPA 625	Pyrene	Total	ug/L
blankwater	EPA 625M	Pyrene	Total	ug/L

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blankwater	EPA 8270	Pyrene	Total	ug/Kg dw
blankwater	EPA 8270Cm	Pyrene	Total	ug/L
blankwater	GCMS	Pyrene	Total	ug/Kg dw
runoff	EPA 625	Pyrene	Total	ug/L
runoff	EPA 625M	Pyrene	Total	ug/L
runoff	EPA 8270Cm	Pyrene	Total	ug/L
sediment	EPA 8270	Pyrene	Total	%
sediment	EPA 8270	Pyrene	Total	ng/g dw
sediment	EPA 8270	Pyrene	Total	ug/Kg dw
sediment	EPA 8270C	Pyrene	Total	ng/g dw
sediment	EPA 8270C	Pyrene	Total	ng/g ww
sediment	EPA 8270C	Pyrene	Total	ug/Kg dw
sediment	EPA 8270Cm	Pyrene	Total	ug/Kg dw
sediment	EPA 8270M	Pyrene	Total	ng/g dw
sediment	GCMS	Pyrene	Total	ng/g dw
sediment	GCMS	Pyrene	Total	ug/Kg dw
sediment	Not Recorded	Pyrene	Total	ng/g dw
blankmatrix	EPA 8270M	Pyrene-d10(Surrogate)	Total	% Recovery
sediment	EPA 8270M	Pyrene-d10(Surrogate)	Total	% Recovery
habitat	ObservedFieldMeasure	Rapid	None	%
Not Applicable	None	Reproduction	None	none
Not Applicable	None	Reproduction	None	Num/Rep
habitat	FieldObservations	Residences	None	none
habitat	FieldObservations	Residential Dumping	None	none
blankmatrix	EPA 8081BM	Resmethrin	Total	ng/g dw
blankwater	EPA 625	Resmethrin	Total	ug/L
samplewater	EPA 625	Resmethrin	Total	ug/L
sediment	EPA 8081BM	Resmethrin	Total	ng/g dw
sediment	EPA 8270Cm	Resmethrin	Total	ug/Kg dw
habitat	ObservedFieldMeasure	Riffle	None	%
habitat	FieldObservations	Riffle/Run Bank Stability	None	none
habitat	FieldObservations	Riffle/Run Channel Alteration	None	none
habitat	FieldObservations	Riffle/Run Channel Flow Status	None	none

habitat	FieldObservations	Riffle/Run Embeddedness	None	none
habitat	FieldObservations	Riffle/Run Epifaunal Substrate	None	none
habitat	FieldObservations	Riffle/Run Frequency	None	none
habitat	FieldObservations	Riffle/Run Riparian Zone Width	None	none
habitat	FieldObservations	Riffle/Run Sediment Deposition	None	none
habitat	FieldObservations	Riffle/Run Vegetative Protection	None	none
habitat	FieldObservations	Riffle/Run Velocity/Depth Regime	None	none
habitat	FieldObservations	Riparian Bridges/Abutments	None	none
habitat	FieldObservations	Riparian Buildings	None	none
habitat	FieldObservations	Riparian Canopy Big Trees	None	none
habitat	FieldObservations	Riparian Canopy Small Trees	None	none
habitat	FieldObservations	Riparian Canopy Veg Type	None	none
habitat	ObservedFieldMeasure	Riparian Corridor Shading	None	%
habitat	FieldObservations	Riparian GroundCover Barren	None	none
habitat	FieldObservations	Riparian GroundCover NonWoody Plants	None	none
habitat	FieldObservations	Riparian GroundCover Woody Shrubs	None	none
habitat	FieldObservations	Riparian Landfill/Trash	None	none
habitat	FieldObservations	Riparian Logging	None	none
habitat	FieldObservations	Riparian Lower Canopy All Vegetation	None	none
habitat	FieldObservations	Riparian Mining	None	none
habitat	FieldObservations	Riparian Orchards/Vineyards	None	none
habitat	FieldObservations	Riparian Park/Lawn	None	none
habitat	FieldObservations	Riparian Pasture/Range	None	none
habitat	FieldObservations	Riparian Pavement	None	none
habitat	FieldObservations	Riparian Pipes	None	none

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habitat	FieldObservations	Riparian Powerline	None	none
habitat	FieldObservations	Riparian Road	None	none
habitat	FieldObservations	Riparian Row Crops	None	none
habitat	FieldObservations	Riparian Trail	None	none
habitat	FieldObservations	Riparian Understory NonWoody Plants	None	none
habitat	FieldObservations	Riparian Understory Veg Type	None	none
habitat	FieldObservations	Riparian Understory Woody Shrubs	None	none
habitat	FieldObservations	Riparian Upper Canopy All Trees	None	none
habitat	FieldObservations	Riparian Upper Canopy Deciduous	None	none
habitat	FieldObservations	Riparian Upper Canopy Evergreen	None	none
habitat	FieldObservations	Riparian Vegetation Management	None	none
habitat	FieldObservations	Riparian Wall/Dike	None	none
habitat	FieldObservations	Roads	None	none
habitat	ObservedFieldMeasure	Run	None	%
overlyingwater	ToxWQMeasurement	Salinity	Total	ppt
samplewater	FieldMeasure	Salinity	Total	%
samplewater	FieldMeasure	Salinity	Total	ppt
samplewater	FieldMeasure	Salinity	Total	psu
sediment, interstitialwater	ToxWQMeasurement	Salinity	Total	ppt
sediment	Plumb, 1981, GS	Sand	Coarse 0.5 to <1.0 mm	%
sediment	Plumb, 1981, GS	Sand	Fine 0.125 to <0.25 mm	%
sediment	Plumb, 1981, GS	Sand	Medium 0.25 to <0.5 mm	%
sediment	Plumb, 1981, GS	Sand	V. Coarse 1.0 to <2.0 mm	%
sediment	Plumb, 1981, GS	Sand	V. Fine 0.0625 to <0.125 mm	%
sediment	SM 2560 D v20,21	Sand	0.0625 to <2.0 mm	%
habitat	FieldObservations	SeaState	None	none
samplewater	FieldMeasure	Secchi Depth	None	m

blankmatrix	EPA 200.8	Selenium	Dissolved	ug/L
blankmatrix	EPA 200.9	Selenium	Total	mg/Kg dw
blankmatrix	EPA 200.9	Selenium	Total	mg/L
blankmatrix	EPA 200.9	Selenium	Total	ug/g dw
blankmatrix	EPA 7742M	Selenium	Total	mg/Kg dw
blankmatrix	HAA	Selenium	Total	mg/Kg dw
blankmatrix	ICP-MS	Selenium	Total	mg/Kg dw
blankwater	EPA 1640	Selenium	Dissolved	ug/L
blankwater	EPA 1640	Selenium	Total	ug/L
blankwater	EPA 200.8	Selenium	Dissolved	ug/L
blankwater	EPA 200.8	Selenium	Total	ug/L
blankwater	EPA 200.8m	Selenium	Total	ug/L
blankwater	ICP-MS	Selenium	Total	mg/Kg dw
blankwater	SW7740	Selenium	Total	mg/Kg dw
labwater	EPA 200.9	Selenium	Total	mg/L
labwater	EPA 200.9	Selenium	Total	ng/g dw
labwater	HAA	Selenium	Total	mg/Kg dw
runoff	EPA 200.8	Selenium	Dissolved	ug/L
runoff	EPA 200.8	Selenium	Total	ug/L
runoff	EPA 200.8m	Selenium	Dissolved	ug/L
runoff	EPA 200.8m	Selenium	Total	ug/L
samplewater	EPA 1640	Selenium	Dissolved	ug/L
samplewater	EPA 1640	Selenium	Total	ug/L
samplewater	EPA 200.8	Selenium	Dissolved	ug/L
samplewater	EPA 200.8	Selenium	Total	ug/L
samplewater	EPA 200.8m	Selenium	Dissolved	ug/L
samplewater	EPA 200.8m	Selenium	Total	ug/L
sediment	EPA 200.7	Selenium	Total	mg/Kg dw
sediment	EPA 200.7	Selenium	Total	ug/L
sediment	EPA 200.8	Selenium	Total	ug/g dw
sediment	EPA 200.8	Selenium	Total	umol/g
sediment	EPA 200.9	Selenium	Total	mg/Kg dw
sediment	EPA 200.9	Selenium	Total	mg/L
sediment	EPA 200.9	Selenium	Total	ng/g dw
sediment	EPA 200.9	Selenium	Total	ug/g dw

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sediment	EPA 6010B	Selenium	Total	mg/Kg dw
sediment	EPA 6020	Selenium	Total	%
sediment	EPA 6020	Selenium	Total	ug/g dw
sediment	EPA 6020	Selenium	Total	ug/g ww
sediment	EPA 6020m	Selenium	Total	mg/Kg dw
sediment	EPA 7740	Selenium	Total	ug/g dw
sediment	EPA 7742M	Selenium	Total	mg/Kg dw
sediment	GFAA/FAA	Selenium	Total	ug/g dw
sediment	HAA	Selenium	Total	mg/Kg dw
sediment	HAA	Selenium	Total	ug/g dw
sediment	ICPAES	Selenium	Total	mg/Kg dw
sediment	ICP-MS	Selenium	Total	mg/Kg dw
sediment	ICP-MS	Selenium	Total	ng/g dw
sediment	ICP-MS	Selenium	Total	ug/g dw
sediment	SW7740	Selenium	Total	mg/Kg dw
SEM-Extract	EPA 200.8m	Selenium	Total	umol/g
habitat	FieldObservations	Sewage Treatment	None	none
habitat	ObservedFieldMeasure	Shade	None	%
habitat	FieldObservations	Side Channel	None	none
samplewater	FieldMeasure	Silica as SiO <sub>2</sub>	Dissolved	mg/L
samplewater	FieldMeasure	Silica as SiO <sub>2</sub>	Total	mg/L
samplewater	Alpkem RFA 300 Series Nutrient Analyzer	Silicate as Si	Total	umol/g
samplewater	Alpkem RFA 300 Series Nutrient Analyzer	Silicate as Si	Total	umol/L
sediment	Plumb, 1981, GS	Silt	Coarse 0.031 to <0.0625 mm	%
sediment	Plumb, 1981, GS	Silt	Fine 0.0078 to <0.0156 mm	%
sediment	Plumb, 1981, GS	Silt	Medium 0.0156 to <0.031 mm	%
sediment	Plumb, 1981, GS	Silt	V. Fine 0.0039 to <0.0078 mm	%
sediment	SM 2560 D v20,21	Silt	0.0039 to <0.0625 mm	%
blankmatrix	EPA 200.8	Silver	Dissolved	ug/L
blankmatrix	EPA 200.8	Silver	Total	ug/g dw
blankmatrix	EPA 6010B	Silver	Total	mg/Kg dw

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blankmatrix	ICPAES	Silver	Total	mg/Kg dw
blankmatrix	ICP-MS	Silver	Total	mg/Kg dw
blankmatrix	ICP-MS	Silver	Total	mg/L
blankwater	EPA 200.8	Silver	Dissolved	ug/L
blankwater	EPA 200.8	Silver	Total	ug/L
blankwater	EPA 200.8m	Silver	Total	ug/L
blankwater	EPA 6010B	Silver	Total	mg/Kg dw
blankwater	ICP-MS	Silver	Total	mg/Kg dw
labwater	EPA 200.9	Silver	Total	mg/L
labwater	EPA 200.9	Silver	Total	ng/g dw
runoff	EPA 200.8	Silver	Dissolved	ug/L
runoff	EPA 200.8	Silver	Total	ug/L
runoff	EPA 200.8m	Silver	Dissolved	ug/L
runoff	EPA 200.8m	Silver	Total	ug/L
samplewater	EPA 200.8	Silver	Dissolved	ug/L
samplewater	EPA 200.8	Silver	Total	ug/L
sediment	EPA 200.7	Silver	Total	mg/Kg dw
sediment	EPA 200.7	Silver	Total	ug/L
sediment	EPA 200.8	Silver	Total	ug/g dw
sediment	EPA 200.8	Silver	Total	umol/g
sediment	EPA 200.9	Silver	Total	mg/Kg dw
sediment	EPA 200.9	Silver	Total	mg/L
sediment	EPA 200.9	Silver	Total	ng/g dw
sediment	EPA 6010B	Silver	Total	mg/Kg dw
sediment	EPA 6010B	Silver	Total	ug/g dw
sediment	EPA 6020	Silver	Total	%
sediment	EPA 6020	Silver	Total	ug/g dw
sediment	EPA 6020	Silver	Total	ug/g ww
sediment	EPA 6020m	Silver	Total	mg/Kg dw
sediment	GFAA	Silver	Total	ug/g dw
sediment	GFAA/FAA	Silver	Total	ug/g dw
sediment	ICPAES	Silver	Total	mg/Kg dw
sediment	ICP-MS	Silver	Total	mg/Kg dw
sediment	ICP-MS	Silver	Total	ng/g dw
sediment	ICP-MS	Silver	Total	ug/g dw

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SEM-Extract	EPA 200.8m	Silver	Total	umol/g
blankwater	EPA 525.2	Simazine	Total	ug/L
blankwater	EPA 625	Simazine	Total	ug/L
runoff	EPA 525.2	Simazine	Total	ug/L
samplewater	EPA 525.2	Simazine	Total	ug/L
samplewater	EPA 625	Simazine	Total	ug/L
habitat	FieldObservations	SkyCode	None	none
habitat	FieldMeasure	Slope	First Supplemental	%
habitat	FieldMeasure	Slope	Main	%
habitat	FieldMeasure	Slope	Second Supplemental	%
habitat	FieldMeasure	Slope	Third Supplemental	%
habitat	FieldObservations	Soft Sediment	None	none
blankwater	SM 2510	SpecificConductivity	Total	uS/cm
blankwater	SM 2510 B	SpecificConductivity	Total	uS/cm
runoff	SM 2510	SpecificConductivity	Total	uS/cm
runoff	SM 2510 B	SpecificConductivity	Total	uS/cm
samplewater	FieldMeasure	SpecificConductivity	Total	uS/cm
samplewater	SM 2510 B	SpecificConductivity	Total	uS/cm
samplewater	WRS 11A.2	SpecificConductivity	Total	uS/cm
habitat	FieldMeasure	StationWaterDepth	None	cm
habitat	Neutral Buoyant Object	StationWaterDepth	None	cm
habitat	Velocity Area	StationWaterDepth	None	cm
habitat	ObservedFieldMeasure	StationWaterDepth_Avg	None	cm
habitat	ObservedFieldMeasure	StationWaterDepth_Max	None	cm
habitat	FieldObservations	StreamMixing	None	none
blankwater	EPA 200.8	Strontium	Dissolved	ug/L
blankwater	EPA 200.8	Strontium	Total	ug/L
samplewater	EPA 200.8	Strontium	Dissolved	ug/L
samplewater	EPA 200.8	Strontium	Total	ug/L
sediment	EPA 200.8	Strontium	Total	umol/g
sediment	EPA 6020m	Strontium	Total	mg/Kg dw
SEM-Extract	EPA 200.8m	Strontium	Total	umol/g
habitat	FieldObservations	SubreachesFished	None	none

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habitat	FieldObservations	Substrate Modifier	None	none
habitat	FieldMeasure	Substrate Size Class	None	mm
habitat	FieldObservations	Substrate Size Class	None	none
blankwater	EPA 300.0	Sulfate	Total	mg/L
samplewater	EPA 300.0	Sulfate	Dissolved	mg/L
samplewater	EPA 300.0	Sulfate	Particulate	mg/L
samplewater	EPA 300.0	Sulfate	Total	mg/L
samplewater	EPA 375.4	Sulfate	Dissolved	mg/L
samplewater	EPA 375.4	Sulfate	Particulate	mg/L
samplewater	EPA 375.4	Sulfate	Total	mg/L
samplewater	SM 4500-SO4 F	Sulfate	Dissolved	mg/L
samplewater	SM 4500-SO4 F	Sulfate	Particulate	mg/L
samplewater	SM 4500-SO4 F	Sulfate	Total	mg/L
blankmatrix	ICP-MS	Sulfide, Total	Total	umol/L
sediment	EPA 353.2	Sulfide, Total	Total	umol/g
blankmatrix	EPA 8141AM	Sulfotep	Total	ng/g dw
labwater	EPA 8141AM	Sulfotep	Total	ug/L
samplewater	EPA 8141AM	Sulfotep	Total	ug/L
sediment	EPA 8141AM	Sulfotep	Total	ng/g dw
habitat	FieldObservations	Surface Films	None	none
habitat	ObservedFieldMeasure	SurfaceAreaOfMax	None	%
Not Applicable	None	Survival	None	%
Not Applicable	None	Swim Normally	None	Num/Rep
blankwater	EPA 515.3	T, 2,4,5-	Total	ug/L
blankwater	EPA 8151A	T, 2,4,5-	Total	ug/L
runoff	EPA 515.3	T, 2,4,5-	Total	ug/L
runoff	EPA 8151A	T, 2,4,5-	Total	ug/L
blankmatrix	EPA 8081BM	Tedion	Total	ng/g dw
labwater	EPA 8081BM	Tedion	Total	ug/L
samplewater	EPA 8081BM	Tedion	Total	ug/L
sediment	EPA 8081BM	Tedion	Total	ng/g dw
air	FieldMeasure	Temperature	None	Deg C
Not Applicable	None	Temperature	None	Deg C
overlyingwater	ToxWQMeasurement	Temperature	None	Deg C
samplewater	FieldMeasure	Temperature	None	Deg C

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blankwater	EPA 525.2	Terbacil	Total	ug/L
runoff	EPA 525.2	Terbacil	Total	ug/L
labwater	EPA 8141AM	Terbufos	Total	ug/L
samplewater	EPA 8141AM	Terbufos	Total	ug/L
blankwater	EPA 625	Terphenyl-d14(Surrogate)	Total	ug/L
blankwater	EPA 8270	Terphenyl-d14(Surrogate)	Total	ug/L
blankwater	EPA 8270C	Terphenyl-d14(Surrogate)	Total	ug/L
blankwater	EPA 8270Cm	Terphenyl-d14(Surrogate)	Total	ug/L
runoff	EPA 625	Terphenyl-d14(Surrogate)	Total	ug/L
runoff	EPA 8270Cm	Terphenyl-d14(Surrogate)	Total	ug/L
samplewater	EPA 8270	Terphenyl-d14(Surrogate)	Total	ug/L
samplewater	EPA 8270C	Terphenyl-d14(Surrogate)	Total	ug/L
sediment	EPA 8270	Terphenyl-d14(Surrogate)	Total	%
sediment	EPA 8270	Terphenyl-d14(Surrogate)	Total	ug/Kg dw
sediment	EPA 8270Cm	Terphenyl-d14(Surrogate)	Total	ug/Kg dw
blankwater	EPA 608	Tetrachloro-m-xylene	Total	ug/L
blankwater	EPA 625M	Tetrachloro-m-xylene	Total	ug/L
runoff	EPA 608	Tetrachloro-m-xylene	Total	ug/L
runoff	EPA 625M	Tetrachloro-m-xylene	Total	ug/L
sediment	EPA 8081	Tetrachloro-m-xylene(Surrogate)	Total	%
sediment	EPA 8082	Tetrachloro-m-xylene(Surrogate)	Total	%
sediment	EPA 8270C	Tetrachloro-m-xylene(Surrogate)	Total	ng/g dw
sediment	EPA 8270C	Tetrachloro-m-xylene(Surrogate)	Total	ng/g ww
sediment	EPA 8270Cm	Tetrachloro-m-xylene(Surrogate)	Total	ug/Kg dw
sediment	GCMS	Tetrachloro-m-	Total	ng/g dw

		xylene(Surrogate)		
sediment	SW2081/8082	Tetrachloro-m-xylene(Surrogate)	Total	ug/Kg dw
blankwater	EPA 525.2	Tetrachlorvinphos	Total	ug/L
blankwater	EPA 625	Tetrachlorvinphos	Total	ng/L
blankwater	EPA 625M	Tetrachlorvinphos	Total	ug/L
labwater	EPA 8141AM	Tetrachlorvinphos	Total	ug/L
runoff	EPA 525.2	Tetrachlorvinphos	Total	ug/L
runoff	EPA 625M	Tetrachlorvinphos	Total	ug/L
samplewater	EPA 625	Tetrachlorvinphos	Total	ng/L
samplewater	EPA 8141AM	Tetrachlorvinphos	Total	ug/L
sediment	EPA 8270C	Tetrachlorvinphos	Total	ng/g dw
sediment	EPA 8270Cm	Tetrachlorvinphos	Total	ug/Kg dw
sediment	GCMS	Tetradecane, 2-phenyl-	Total	ng/g dw
sediment	GCMS	Tetradecane, 3-phenyl-	Total	ng/g dw
sediment	GCMS	Tetradecane, 4-phenyl-	Total	ng/g dw
sediment	GCMS	Tetradecane, 5-phenyl-	Total	ng/g dw
sediment	GCMS	Tetradecane, 6-phenyl-	Total	ng/g dw
sediment	GCMS	Tetradecane, 7-phenyl-	Total	ng/g dw
blankmatrix	EPA 8081BM	Tetramethrin	Total	ng/g dw
sediment	EPA 8081BM	Tetramethrin	Total	ng/g dw
blankwater	EPA 200.8	Thallium	Dissolved	ug/L
blankwater	EPA 200.8	Thallium	Total	ug/L
blankwater	EPA 200.8m	Thallium	Total	ug/L
runoff	EPA 200.8	Thallium	Dissolved	ug/L
runoff	EPA 200.8	Thallium	Total	ug/L
runoff	EPA 200.8m	Thallium	Dissolved	ug/L
runoff	EPA 200.8m	Thallium	Total	ug/L
samplewater	EPA 200.8	Thallium	Dissolved	ug/L
samplewater	EPA 200.8	Thallium	Total	ug/L
sediment	EPA 200.8	Thallium	Total	umol/g
sediment	EPA 6010B	Thallium	Total	mg/Kg dw
sediment	EPA 6020	Thallium	Total	ug/g dw
sediment	EPA 6020m	Thallium	Total	mg/Kg dw
SEM-Extract	EPA 200.8m	Thallium	Total	umol/g

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blankwater	EPA 525.2	Thiobencarb	Total	ug/L
runoff	EPA 525.2	Thiobencarb	Total	ug/L
blankmatrix	EPA 8141AM	Thionazin	Total	ng/g dw
labwater	EPA 8141AM	Thionazin	Total	ug/L
samplewater	EPA 8141AM	Thionazin	Total	ug/L
sediment	EPA 8141AM	Thionazin	Total	ng/g dw
habitat	FieldObservations	Tidal State	None	none
habitat	FieldMeasure	Time, Fishing	Total	mins
habitat	FieldMeasure	Time, Shock	Total	seconds
Not Applicable	Velocity Area	TimeToSpinTest	None	seconds
blankwater	EPA 200.8	Tin	Dissolved	ug/L
blankwater	EPA 200.8	Tin	Total	ug/L
samplewater	EPA 200.8	Tin	Dissolved	ug/L
samplewater	EPA 200.8	Tin	Total	ug/L
sediment	EPA 200.8	Tin	Total	umol/g
sediment	EPA 6010B	Tin	Total	mg/Kg dw
sediment	EPA 6020	Tin	Total	%
sediment	EPA 6020	Tin	Total	ug/g dw
sediment	EPA 6020	Tin	Total	ug/g ww
sediment	EPA 6020m	Tin	Total	mg/Kg dw
sediment	GFAA/FAA	Tin	Total	ug/g dw
sediment	ICP-MS	Tin	Total	ng/g dw
sediment	ICP-MS	Tin	Total	ug/g dw
SEM-Extract	EPA 200.8m	Tin	Total	umol/g
blankwater	EPA 200.8	Titanium	Dissolved	ug/L
blankwater	EPA 200.8	Titanium	Total	ug/L
samplewater	EPA 200.8	Titanium	Dissolved	ug/L
samplewater	EPA 200.8	Titanium	Total	ug/L
sediment	EPA 200.8	Titanium	Total	umol/g
sediment	EPA 6020	Titanium	Total	ug/g dw
sediment	EPA 6020m	Titanium	Total	mg/Kg dw
SEM-Extract	EPA 200.8m	Titanium	Total	umol/g
blankmatrix	EPA 8141AM	Tokuthion	Total	ng/g dw
blankwater	EPA 525.2	Tokuthion	Total	ug/L
blankwater	EPA 625	Tokuthion	Total	ng/L

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blankwater	EPA 625M	Tokuthion	Total	ug/L
labwater	EPA 8141AM	Tokuthion	Total	ug/L
runoff	EPA 525.2	Tokuthion	Total	ug/L
runoff	EPA 625M	Tokuthion	Total	ug/L
samplewater	EPA 625	Tokuthion	Total	ng/L
samplewater	EPA 8141AM	Tokuthion	Total	ug/L
sediment	EPA 8141AM	Tokuthion	Total	ng/g dw
sediment	EPA 8270C	Tokuthion	Total	ng/g dw
sediment	EPA 8270Cm	Tokuthion	Total	ug/Kg dw
habitat	FieldObservations	Torrent 01	None	none
habitat	FieldObservations	Torrent 02	None	none
habitat	FieldObservations	Torrent 03	None	none
habitat	FieldObservations	Torrent 04	None	none
habitat	FieldObservations	Torrent 05	None	none
habitat	FieldObservations	Torrent 06	None	none
habitat	FieldObservations	Torrent 07	None	none
habitat	FieldObservations	Torrent 08	None	none
habitat	FieldObservations	Torrent 09	None	none
habitat	FieldObservations	Torrent 10	None	none
habitat	FieldObservations	Torrent 11	None	none
samplewater	SM 2320 B	Total Alkalinity (calc)	Total	mg/L
Not Applicable	None	Total Cell Count	None	cells/mL
blankwater	EPA 625M	Total DDTs	Total	ug/L
runoff	EPA 625M	Total DDTs	Total	ug/L
sediment	GCMS	Total DDTs	Total	ng/g dw
blankwater	SM 2540 C	Total Dissolved Solids	Total	mg/L
runoff	SM 2540 C	Total Dissolved Solids	Total	mg/L
samplewater	EPA 160.1	Total Dissolved Solids	Total	mg/L
samplewater	FieldMeasure	Total Dissolved Solids	Total	mg/L
samplewater	SM 2540 C	Total Dissolved Solids	Total	mg/L
blankwater	SM 2340 B	Total Hardness (calc)	Total	mg/L
samplewater	SM 2340 B	Total Hardness (calc)	Total	mg/L
blankmatrix	EPA 415.1	Total Normal	Total	%
sediment	CHN	Total Normal	Total	% dw
sediment	EPA 415.1	Total Normal	Total	%

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sediment	SM 4500-N B	Total Normal	Total	mg/Kg dw
blankmatrix	CHN	Total Organic Carbon	Total	%
blankmatrix	EPA 415.1	Total Organic Carbon	Total	%
blankmatrix	SM 5310 B	Total Organic Carbon	Total	% dw
blankwater	EPA 415.1	Total Organic Carbon	Total	mg/L
blankwater	EPA 415.1M	Total Organic Carbon	Total	mg/L
blankwater	EPA 9060A	Total Organic Carbon	Total	%
blankwater	SM 5310 B	Total Organic Carbon	Total	% dw
blankwater	SM 5310 B	Total Organic Carbon	Total	mg/L
blankwater	SM 5310 C	Total Organic Carbon	Total	mg/L
runoff	EPA 415.1	Total Organic Carbon	Total	mg/L
runoff	SM 5310 B	Total Organic Carbon	Total	mg/L
runoff	SM 5310 C	Total Organic Carbon	Total	mg/L
samplewater	EPA 415.1M	Total Organic Carbon	Total	mg/L
sediment	ASTM D4129-82M	Total Organic Carbon	Total	% dw
sediment	CHN	Total Organic Carbon	Total	%
sediment	CHN	Total Organic Carbon	Total	% dw
sediment	EPA 415.1	Total Organic Carbon	Total	%
sediment	EPA 9060	Total Organic Carbon	Total	ug/g dw
sediment	EPA 9060A	Total Organic Carbon	Total	%
sediment	MARPCN I	Total Organic Carbon	Total	%
sediment	MLML SOP OC	Total Organic Carbon	Total	%
sediment	Not Recorded	Total Organic Carbon	Total	% dw
sediment	SM 5310 B	Total Organic Carbon	Total	%
sediment	SM 5310 B	Total Organic Carbon	Total	% dw
sediment	SM 5310 B	Total Organic Carbon	Total	mg/Kg dw
sediment	SSPS	Total Organic Carbon	Total	%
blankwater	EPA 625M	Total PAHs	Total	ug/L
runoff	EPA 625M	Total PAHs	Total	ug/L
blankwater	EPA 625M	Total PCBs	Total	ug/L
runoff	EPA 625M	Total PCBs	Total	ug/L
samplewater	EPA 160.2	Total Solids	Total	mg/L
sediment	EPA 160.3	Total Solids	Total	%
sediment	EPA 160.3	Total Solids	Total	% dw
sediment	GCMS	Total Solids	Total	%

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sediment	Not Recorded	Total Solids	Total	%
sediment	SM 2540	Total Solids	Total	% dw
sediment	SM 2540 B	Total Solids	Total	%
blankwater	EPA 160.4	Total Suspended Solids	Particulate	mg/L
blankwater	SM 2540 D	Total Suspended Solids	Particulate	mg/L
runoff	EPA 160.4	Total Suspended Solids	Particulate	mg/L
runoff	SM 2540 D	Total Suspended Solids	Particulate	mg/L
samplewater	EPA 160.2	Total Suspended Solids	Particulate	mg/L
samplewater	SM 2540 D	Total Suspended Solids	Particulate	mg/L
samplewater	SM 2540 D	Total Suspended Solids	Total	mg/L
blankwater	EPA 608	Toxaphene	Total	ug/L
blankwater	EPA 625	Toxaphene	Total	ug/L
blankwater	EPA 625M	Toxaphene	Total	ug/L
blankwater	EPA 8270Cm	Toxaphene	Total	ug/Kg dw
runoff	EPA 608	Toxaphene	Total	ug/L
runoff	EPA 625M	Toxaphene	Total	ug/L
samplewater	EPA 608	Toxaphene	Total	ug/L
samplewater	EPA 608M	Toxaphene	Total	ug/L
samplewater	EPA 625	Toxaphene	Dissolved	ug/L
samplewater	EPA 625	Toxaphene	Total	ug/L
samplewater, particulate, <63 um	EPA 625	Toxaphene	Total	ug/L
samplewater, particulate, 63 um to 2000 um	EPA 625	Toxaphene	Total	ug/L
sediment	EPA 8081	Toxaphene	Total	ng/g dw
sediment	EPA 8270C	Toxaphene	Total	ng/g dw
sediment	EPA 8270C	Toxaphene	Total	ng/g ww
sediment	EPA 8270Cm	Toxaphene	Total	ug/Kg dw
sediment	GCMS	Toxaphene	Total	ng/g dw
sediment	Not Recorded	Toxaphene	Total	ng/g dw
blankwater	EPA 515.3	TP, 2,4,5-	Total	ug/L
blankwater	EPA 8151A	TP, 2,4,5-	Total	ug/L
runoff	EPA 515.3	TP, 2,4,5-	Total	ug/L
runoff	EPA 8151A	TP, 2,4,5-	Total	ug/L

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blankwater	EPA 1664A	TPH	Total	mg/L
runoff	EPA 1664A	TPH	Total	mg/L
habitat	ObservedFieldMeasure	TransectsSampled	None	count
samplewater	FieldMeasure	Transmittance	None	%
habitat	FieldObservations	Trash, Litter	None	none
habitat	FieldObservations	Tree_Diameter	None	m
habitat	FieldMeasure	Tree_Distance	None	m
habitat	FieldObservations	Tree_Height	None	m
habitat	FieldObservations	Tree_TaxonomicCategoryCode	None	none
blankwater	EPA 625	Tribromophenol, 2,4,6-	Total	ug/L
blankwater	EPA 625M	Tribromophenol, 2,4,6-	Total	ug/L
blankwater	EPA 8270Cm	Tribromophenol, 2,4,6-	Total	ug/L
runoff	EPA 625	Tribromophenol, 2,4,6-	Total	ug/L
runoff	EPA 625M	Tribromophenol, 2,4,6-	Total	ug/L
runoff	EPA 8270Cm	Tribromophenol, 2,4,6-	Total	ug/L
labwater	EPA 8141AM	Trichlorfon	Total	ug/L
samplewater	EPA 8141AM	Trichlorfon	Total	ug/L
blankwater	EPA 625	Trichlorobenzene, 1,2,4-	Total	ug/L
blankwater	EPA 625M	Trichlorobenzene, 1,2,4-	Total	ug/L
runoff	EPA 625	Trichlorobenzene, 1,2,4-	Total	ug/L
runoff	EPA 625M	Trichlorobenzene, 1,2,4-	Total	ug/L
blankmatrix	EPA 8141AM	Trichloronate	Total	ng/g dw
blankwater	EPA 525.2	Trichloronate	Total	ug/L
blankwater	EPA 625	Trichloronate	Total	ng/L
blankwater	EPA 625M	Trichloronate	Total	ug/L
labwater	EPA 8141AM	Trichloronate	Total	ug/L
runoff	EPA 525.2	Trichloronate	Total	ug/L
runoff	EPA 625M	Trichloronate	Total	ug/L
samplewater	EPA 625	Trichloronate	Total	ng/L
samplewater	EPA 8141AM	Trichloronate	Total	ug/L
sediment	EPA 8141AM	Trichloronate	Total	ng/g dw
sediment	EPA 8270C	Trichloronate	Total	ng/g dw

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sediment	EPA 8270Cm	Trichloronate	Total	ug/Kg dw
blankwater	EPA 8270Cm	Trichlorophenol, 2,4,5-	Total	ug/L
runoff	EPA 8270Cm	Trichlorophenol, 2,4,5-	Total	ug/L
blankwater	EPA 625	Trichlorophenol, 2,4,6-	Total	ug/L
blankwater	EPA 625M	Trichlorophenol, 2,4,6-	Total	ug/L
blankwater	EPA 8270Cm	Trichlorophenol, 2,4,6-	Total	ug/L
runoff	EPA 625	Trichlorophenol, 2,4,6-	Total	ug/L
runoff	EPA 625M	Trichlorophenol, 2,4,6-	Total	ug/L
runoff	EPA 8270Cm	Trichlorophenol, 2,4,6-	Total	ug/L
sediment	GCMS	Tridecane, 2-phenyl-	Total	ng/g dw
sediment	GCMS	Tridecane, 3-phenyl-	Total	ng/g dw
sediment	GCMS	Tridecane, 4-phenyl-	Total	ng/g dw
sediment	GCMS	Tridecane, 5-phenyl-	Total	ng/g dw
sediment	GCMS	Tridecane, 6/7-phenyl-	Total	ng/g dw
blankmatrix	EPA 8270	Trimethylnaphthalene, 1,6,7-	Total	ug/Kg dw
blankmatrix	GCMS	Trimethylnaphthalene, 1,6,7-	Total	ng/g dw
blankwater	EPA 8270	Trimethylnaphthalene, 1,6,7-	Total	ug/Kg dw
blankwater	GCMS	Trimethylnaphthalene, 1,6,7-	Total	ug/Kg dw
sediment	EPA 8270	Trimethylnaphthalene, 1,6,7-	Total	ug/Kg dw
sediment	EPA 8270C	Trimethylnaphthalene, 1,6,7-	Total	ug/Kg dw
sediment	EPA 8270Cm	Trimethylnaphthalene, 1,6,7-	Total	ug/Kg dw
sediment	GCMS	Trimethylnaphthalene, 1,6,7-	Total	ng/g dw
sediment	GCMS	Trimethylnaphthalene, 1,6,7-	Total	ug/Kg dw
blankmatrix	EPA 8270M	Trimethylnaphthalene, 2,3,5-	Total	ng/g dw
blankwater	EPA 625M	Trimethylnaphthalene, 2,3,5-	Total	ug/L
runoff	EPA 625M	Trimethylnaphthalene, 2,3,5-	Total	ug/L
sediment	EPA 8270	Trimethylnaphthalene, 2,3,5-	Total	ng/g dw

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sediment	EPA 8270C	Trimethylnaphthalene, 2,3,5-	Total	ng/g dw
sediment	EPA 8270C	Trimethylnaphthalene, 2,3,5-	Total	ng/g ww
sediment	EPA 8270M	Trimethylnaphthalene, 2,3,5-	Total	ng/g dw
sediment	GCMS	Trimethylnaphthalene, 2,3,5-	Total	ng/g dw
sediment	Not Recorded	Trimethylnaphthalene, 2,3,5-	Total	ng/g dw
blankwater	EPA 525.2	Triphenyl phosphate	Total	ug/L
runoff	EPA 525.2	Triphenyl phosphate	Total	ug/L
blankmatrix	EPA 8141AM	Triphenyl phosphate(Surrogate)	Total	% Recovery
labwater	EPA 619M	Triphenyl phosphate(Surrogate)	Total	% Recovery
labwater	EPA 8141AM	Triphenyl phosphate(Surrogate)	Total	% Recovery
samplewater	EPA 619M	Triphenyl phosphate(Surrogate)	Total	% Recovery
samplewater	EPA 8141AM	Triphenyl phosphate(Surrogate)	Total	% Recovery
sediment	EPA 8141AM	Triphenyl phosphate(Surrogate)	Total	% Recovery
habitat	FieldObservations	TrophicStatus	None	none
blankwater	EPA 1664	TRPH	Total	mg/L
runoff	EPA 1664	TRPH	Total	mg/L
blankwater	EPA 180.1	Turbidity	Total	NTU
runoff	EPA 180.1	Turbidity	Total	NTU
samplewater	EPA 180.1	Turbidity	Total	NTU
samplewater	FieldMeasure	Turbidity	Total	NTU
sediment	GCMS	Undecane, 2-phenyl-	Total	ng/g dw
sediment	GCMS	Undecane, 3-phenyl-	Total	ng/g dw
sediment	GCMS	Undecane, 4-phenyl-	Total	ng/g dw
sediment	GCMS	Undecane, 5-phenyl-	Total	ng/g dw
sediment	GCMS	Undecane, 6-phenyl-	Total	ng/g dw
habitat	FieldMeasure	Undercut Distance	None	m
habitat	FieldMeasure	UplandSlope	None	%
habitat	ObservedFieldMeasure	Valley Width	None	m

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blankwater	EPA 200.8	Vanadium	Dissolved	ug/L
blankwater	EPA 200.8	Vanadium	Total	ug/L
samplewater	EPA 200.8	Vanadium	Dissolved	ug/L
samplewater	EPA 200.8	Vanadium	Total	ug/L
sediment	EPA 200.8	Vanadium	Total	umol/g
sediment	EPA 6020	Vanadium	Total	ug/g dw
sediment	EPA 6020m	Vanadium	Total	mg/Kg dw
SEM-Extract	EPA 200.8m	Vanadium	Total	umol/g
habitat	FieldObservations	VectorControl_Bs	None	none
habitat	FieldObservations	VectorControl_Bti	None	none
habitat	FieldObservations	VectorControl_Methoprene	None	none
habitat	FieldObservations	VectorControl_Mosquitofish	None	none
habitat	FieldObservations	VectorControl_Oil	None	none
habitat	ObservedFieldMeasure	Veg_Emergent	None	%
habitat	ObservedFieldMeasure	Veg_Open	None	%
habitat	ObservedFieldMeasure	Veg_SubmergedAlgae	None	%
habitat	ObservedFieldMeasure	Veg_SubmergedOther	None	%
habitat	ObservedFieldMeasure	Veg_SurfaceAlgae	None	%
habitat	ObservedFieldMeasure	Veg_SurfaceOther	None	%
habitat	ObservedFieldMeasure	Vegetation Cover Bank	None	%
habitat	ObservedFieldMeasure	Vegetation Cover Instream	None	%
samplewater	FieldMeasure	Velocity	None	ft/s
samplewater	FieldMeasure	Velocity	None	m/s
samplewater	ObservedFieldMeasure	Velocity	None	ft/s
samplewater	Velocity Area	Velocity	None	ft/s
samplewater	Timed Filling	Volume	None	L
habitat	FieldObservations	Wadeability	None	none
habitat	ObservedFieldMeasure	Wadeability	None	%
habitat	FieldObservations	Water Level Fluctuations	None	none
habitat	FieldObservations	Water Withdrawal	None	none
habitat	FieldObservations	Waterbody Appeal	None	none
habitat	FieldObservations	Waterbody Disturbance	None	none

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habitat	FieldObservations	WaterbodyOrigin	None	none
samplewater	FieldObservations	WaterClarity	None	none
sediment	GCMS	Weight	Total	g dw
sediment	GCMS	Weight	Total	g ww
habitat	FieldObservations	WetlandClass	None	none
habitat	FieldObservations	WetlandFunction_FloodControl	None	none
habitat	FieldObservations	WetlandFunction_HumanUse	None	none
habitat	FieldObservations	WetlandFunction_Stormwater	None	none
habitat	FieldObservations	WetlandFunction_Wildlife	None	none
habitat	FieldMeasure	Wetted Width	None	m
habitat	Neutral Buoyant Object	Wetted Width	None	m
habitat	Velocity Area	Wetted Width	None	m
habitat	FieldMeasure	Width	None	m
habitat	FieldObservations	WindDirection	None	none
habitat	FieldObservations	WindIntensity	None	none
habitat	FieldObservations	WindSpeed	None	kts
habitat	FieldObservations	WindSpeed	None	none
Not Applicable	None	Young/female	None	Num/Rep
blankmatrix	EPA 200.8	Zinc	Dissolved	ug/L
blankmatrix	EPA 200.8	Zinc	Total	ug/g dw
blankmatrix	EPA 6010B	Zinc	Total	mg/Kg dw
blankmatrix	ICPAES	Zinc	Total	mg/Kg dw
blankmatrix	ICP-MS	Zinc	Total	mg/Kg dw
blankmatrix	ICP-MS	Zinc	Total	mg/L
blankmatrix	ICP-MS	Zinc	Total	ug/L
blankwater	EPA 1640	Zinc	Dissolved	ug/L
blankwater	EPA 1640	Zinc	Total	ug/L
blankwater	EPA 200.8	Zinc	Dissolved	ug/L
blankwater	EPA 200.8	Zinc	Total	ug/L
blankwater	EPA 200.8m	Zinc	Total	ug/L
blankwater	EPA 6010B	Zinc	Total	mg/Kg dw
blankwater	ICP-MS	Zinc	Total	mg/Kg dw

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labwater	ICPAES	Zinc	Total	mg/L
labwater	ICPAES	Zinc	Total	ng/g dw
runoff	EPA 200.8	Zinc	Dissolved	ug/L
runoff	EPA 200.8	Zinc	Total	ug/L
runoff	EPA 200.8m	Zinc	Dissolved	ug/L
runoff	EPA 200.8m	Zinc	Total	ug/L
samplewater	EPA 1640	Zinc	Dissolved	ug/L
samplewater	EPA 1640	Zinc	Total	ug/L
samplewater	EPA 200.7	Zinc	Total	ug/L
samplewater	EPA 200.8	Zinc	Dissolved	mg/L
samplewater	EPA 200.8	Zinc	Dissolved	ug/L
samplewater	EPA 200.8	Zinc	Total	ug/L
samplewater	EPA 200.8m	Zinc	Dissolved	ug/L
samplewater	EPA 200.8m	Zinc	Total	ug/L
samplewater	EPA 6020	Zinc	Dissolved	mg/L
sediment	EPA 200.7	Zinc	Total	mg/Kg dw
sediment	EPA 200.7	Zinc	Total	ug/L
sediment	EPA 200.8	Zinc	Total	ug/g dw
sediment	EPA 200.8	Zinc	Total	umol/g
sediment	EPA 200.9	Zinc	Total	mg/Kg dw
sediment	EPA 6010B	Zinc	Total	mg/Kg dw
sediment	EPA 6010B	Zinc	Total	mg/L
sediment	EPA 6010B	Zinc	Total	ug/g dw
sediment	EPA 6020	Zinc	Total	%
sediment	EPA 6020	Zinc	Total	ug/g dw
sediment	EPA 6020	Zinc	Total	ug/g ww
sediment	EPA 6020m	Zinc	Total	mg/Kg dw
sediment	GFAA/FAA	Zinc	Total	ug/g dw
sediment	ICPAES	Zinc	Total	mg/Kg dw
sediment	ICP-MS	Zinc	Total	mg/Kg dw
sediment	ICP-MS	Zinc	Total	ng/g dw
sediment	ICP-MS	Zinc	Total	ug/g dw
SEM-Extract	EPA 200.8m	Zinc	Total	umol/g

*IuList18\_SedimentColors*

VariableResult	Matrix	Method	Analyte	Fraction	Unit
Black	Sediment	FieldObservation	Color	None	None
Dark Brown	Sediment	FieldObservation	Color	None	None
Gray	Sediment	FieldObservation	Color	None	None
NR	Sediment	FieldObservation	Color	None	None
Olive Green	Sediment	FieldObservation	Color	None	None
Other	Sediment	FieldObservation	Color	None	None
Red	Sediment	FieldObservation	Color	None	None
Light Brown	Sediment	FieldObservation	Color	None	None

*IuList19\_DebrisType*

DebrisCollectionMethod	DebrisOrigin	DebrisCategory	DebrisType	Comment Required?
Trawl	Anthropogenic	Plastic	Bag	N
Trawl	Anthropogenic	Plastic	Bandaid	N
Trawl	Anthropogenic	Plastic	Balloon (mylar/latex)/Ribbon	N
Trawl	Anthropogenic	Plastic	Bottle	N
Trawl	Anthropogenic	Plastic	Buoy	N
Trawl	Anthropogenic	Plastic	Cap/Lid	N
Trawl	Anthropogenic	Plastic	Cigarette box/wrapper	N
Trawl	Anthropogenic	Plastic	Cup	N
Trawl	Anthropogenic	Plastic	Filmstrip (movie)	N
Trawl	Anthropogenic	Plastic	Fishing Line/Net	N

Debris Collection Method	DebrisOrigin	DebrisCategory	DebrisType	Comment Required?
Trawl	Anthropogenic	Plastic	Food Bag / Wrapper	N
Trawl	Anthropogenic	Plastic	Polypropylene Rope	N
Trawl	Anthropogenic	Plastic	Straw	N
Trawl	Anthropogenic	Plastic	Toy	N
Trawl	Anthropogenic	Plastic	Utensil	N
Trawl	Anthropogenic	Plastic	Plastic Piece	N
Trawl	Anthropogenic	Plastic	Other Plastic	Y
Trawl	Anthropogenic	Glass	Beer Bottle	N
Trawl	Anthropogenic	Glass	Glass Bottle/Jar -other	N
Trawl	Anthropogenic	Glass	Glass Piece	N
Trawl	Anthropogenic	Glass	Other Glass	Y
Trawl	Anthropogenic	Misc. Items/Pieces	Boat/Ship/Engine part	N
Trawl	Anthropogenic	Misc. Items/Pieces	Clothing	N
Trawl	Anthropogenic	Misc. Items/Pieces	Concrete/Asphalt	N
Trawl	Anthropogenic	Misc. Items/Pieces	Fiberglass	N
Trawl	Anthropogenic	Misc. Items/Pieces	Food	N
Trawl	Anthropogenic	Misc. Items/Pieces	Leather	N
Trawl	Anthropogenic	Misc. Items/Pieces	Lumber	N

Debris Collection Method	DebrisOrigin	DebrisCategory	DebrisType	Comment Required?
Trawl	Anthropogenic	Misc. Items/Pieces	Paper	N
Trawl	Anthropogenic	Misc. Items/Pieces	Rag/Cloth	N
Trawl	Anthropogenic	Misc. Items/Pieces	Rubber	N
Trawl	Anthropogenic	Misc. Items/Pieces	Shoe	N
Trawl	Anthropogenic	Misc. Items/Pieces	Tape	N
Trawl	Anthropogenic	Misc. Items/Pieces	Tire	N
Trawl	Anthropogenic	Misc. Items/Pieces	Other Misc.	Y
Trawl	Anthropogenic	Metal	Drink Can	N
Trawl	Anthropogenic	Metal	Can - other	N
Trawl	Anthropogenic	Metal	Can Pull-tab	N
Trawl	Anthropogenic	Metal	Fishing Gear	N
Trawl	Anthropogenic	Metal	Wire	N
Trawl	Anthropogenic	Metal	Metal Piece	N
Trawl	Anthropogenic	Metal	Other Metal	Y
Trawl	Natural	Marine Origin	Foliose Algae	N
Trawl	Natural	Marine Origin	Gorgonian Sea Fan (dead)	N
Trawl	Natural	Marine Origin	Kelp Holdfast	N
Trawl	Natural	Marine Origin	Kelp Stipe/Blade	N

Debris Collection Method	DebrisOrigin	DebrisCategory	DebrisType	Comment Required?
Trawl	Natural	Marine Origin	Rock	N
Trawl	Natural	Marine Origin	Seagrass	N
Trawl	Natural	Marine Origin	Other Marine	Y
Trawl	Natural	Terrestrial Vegetation	Leaves/Seed Pod	N
Trawl	Natural	Terrestrial Vegetation	Stick/Branch/Driftwood	N
Trawl	Natural	Terrestrial Vegetation	Other Terrest.	Y
Trawl	None	No Debris Present in Sample	No Debris Present in Sample	Y

*IuList20\_NavigationalInstrumentTypes*

NavType	Description
DGPS	Differential Global Positioning Satellite
GPS	Global Positioning Satellite
WAAS	Wide Area Augmentation System
AGPS	Android Tablet

*IuList21\_SQOCategories*

Code	Description
NT	Non-Toxic
LT	Low-Toxicity
MT	Moderate-Toxicity
HT	High-Toxicity

*IuList22\_TrawlFishAnomalyCodes*

AnomalyCode	Anomaly

AnomalyCode	Anomaly
A	Ambicoloration
AB	Ambicoloration/Albinism
ABD	Ambicoloration/Albinism/Deformity (Skeletal)
ABF	Ambicoloration/Albinism/Fin Erosion
ABL	Ambicoloration/Albinism/Lesion
ABP	Ambicoloration/Albinism/Parasite
ABT	Ambicoloration/Albinism/Tumor
AD	Ambicoloration/Deformity (Skeletal)
ADF	Ambicoloration/Deformity (Skeletal)/Fin Erosion
ADL	Ambicoloration/Deformity (Skeletal)/Lesion
ADP	Ambicoloration/Deformity (Skeletal)/Parasite
ADT	Ambicoloration/Deformity (Skeletal)/Tumor
AF	Ambicoloration/Fin Erosion
AFL	Ambicoloration/Fin Erosion/Lesion
AFP	Ambicoloration/Fin Erosion/Parasite
AFT	Ambicoloration/Fin Erosion/Tumor
AL	Ambicoloration/Lesion
ALP	Ambicoloration/Lesion/Parasite
ALT	Ambicoloration/Lesion/Tumor
AP	Ambicoloration/Parasite
APT	Ambicoloration/Parasite/Tumor
AT	Ambicoloration/Tumor
B	Albinism
BD	Albinism/Deformity (Skeletal)
BDF	Albinism/Deformity (Skeletal)/Fin Erosion
BDL	Albinism/Deformity (Skeletal)/Lesion
BDP	Albinism/Deformity (Skeletal)/Parasite
BDT	Albinism/Deformity (Skeletal)/Tumor
BF	Albinism/Fin Erosion
BFL	Albinism/Fin Erosion/Lesion
BFP	Albinism/Fin Erosion/Parasite
BFT	Albinism/Fin Erosion/Tumor
BL	Albinism/Lesion
BP	Albinism/Parasite
BT	Albinism/Tumor

AnomalyCode	Anomaly
D	Deformity (Skeletal)
DF	Deformity (Skeletal)/Fin Erosion
DFL	Deformity (Skeletal)/Fin Erosion/Lesion
DFP	Deformity (Skeletal)/Fin Erosion/Parasite
DFT	Deformity (Skeletal)/Fin Erosion/Tumor
DL	Deformity (Skeletal)/Lesion
DLP	Deformity (Skeletal)/Lesion/Parasite
DLT	Deformity (Skeletal)/Lesion/Tumor
DP	Deformity (Skeletal)/Parasite
DPT	Deformity (Skeletal)/Parasite/Tumor
DT	Deformity (Skeletal)/Tumor
F	Fin Erosion
FL	Fin Erosion/Lesion
FLP	Fin Erosion/Lesion/Parasite
FLT	Fin Erosion/Lesion/Tumor
FP	Fin Erosion/Parasite
FPT	Fin Erosion/Parasite/Tumor
FT	Fin Erosion/Tumor
L	Lesion
LP	Lesion/Parasite
LPT	Lesion/Parasite/Tumor
LT	Lesion/Tumor
None	No Anomaly
P	Parasite
PO	Parasite/Other
PT	Parasite/Tumor
T	Tumor
NE	None Examined
M	Monogeneans
H	Leeches (Hirudinida)

*IuList23\_TrawlInvertAnomalyCodes*

AnomalyCode	Anomaly
None	No Anomaly
P	Parasite
PU	Burnspot disease / Parasite

AnomalyCode	Anomaly
U	Burnspot disease
W	wasting disease

*IuList24\_AnalysisMethodCodes*

MethodCode	Method	AssociatedTable
Alpkem RFA 300 Series Nutrient Analyzer	AlpKem RFA 300 Series Nutrient Analyzer	Chemistry
APHA 9230 B	From Standard Methods	Micro
APHA 9230 C	From Standard Methods	Micro
CHN	EA1108 CHN Elemental Analyzer	Chemistry
Colilert (52 Well Tray)	Idexx	Micro
Colilert (96 Well Tray)	Idexx	Micro
Conductivity Meter	Conductivity Meter	tblSupporting PhysicalMeas
CVAA	Cold Vapor Atomic Absorption Analysis	Chemistry
Entrolert (52 Well Tray)	Idexx	Micro
Entrolert (96 Well Tray)	Idexx	Micro
EPA160.2	Total Suspended Solids analysis method	Chemistry
EPA160.3		
EPA1600	From Standard Methods	Micro
EPA200.7	From Standard Methods	Chemistry
EPA200.8	From Standard Methods	Chemistry
EPA206.2	From Standard Methods	Chemistry
EPA245.5	From Standard Methods	Chemistry
EPA245.7m		
EPA270.2	From Standard Methods	Chemistry
EPA6020m		
EPA8270Cm		
FAA	Flame Atomic Absorption Spectrometer	Chemistry
FIAS	Flow Injection Analysis System	Chemistry
FIMS	Flow Injection Mercury System	Chemistry
FLUORO	Fluorometric analysis method for chlorophyll a and phaeopigment	Chemistry
GCECD	CG/ECD	Chemistry
GCMS	GS/MS	Chemistry
GFAA	Graphite Furnace Atomic Absorption	Chemistry

MethodCode	Method	AssociatedTable
	Analysis	
Gravimetric	Sediment Grain Size Sieve Analysis	Chemistry
HAA	Hydride Atomic Absorption Analysis	Chemistry
ICPAES	Inductively Coupled Plasma Atomic Emmision Spectrometer	Chemistry
ICPMS	Inductively Coupled Plasma Mass Spectrometer	Chemistry
IONGCMS	Ion Trap GC/MS	Chemistry
MARPCN I	High temperature combustion method	Chemistry
Mettler H54AR Balance	Gravimetric	Chemistry
MF	Membrane Filtration	Micro
MF (APHA 9222 B)	From Standard Methods	Micro
MF (APHA 9222 D)	From Standard Methods	Micro
MF(APHA 9230 C)	From Standard Methods	Micro
MTF	Multiple Tube Fermentation	Micro
MTF (APHA 9221 B)	From Standard Methods	Micro
MTF by A-1 (APHA 9221 E.2)	From Standard Methods	Micro
MTF by EC (APHA 9221 E.1)	From Standard Methods	Micro
NA	Not analyzed	Chemistry
NR	Missing data	Chemistry
PCB Congeners Consistent with NPDES method 608	From Standard Methods	Chemistry
PSEP86	Sediment Grain Size	Chemistry
Real Time	CTD	Chemistry
SM2540D	From Standard Methods	Chemistry
SM4500-N		
SM4500NH3	From Standard Methods	Chemistry
SM4500NO3	From Standard Methods	Chemistry
SM4500P	From Standard Methods	Chemistry
SM5310 B		
SW6010	From Standard Methods	Chemistry

*IuList25\_PreparationMethodCodes*

PrepCode	PreparationMethod
90% Acetone	90% Acetone Extract for chlorophyll a and phaeopigment

<b>PrepCode</b>	<b>PreparationMethod</b>
ASE	Accelerated Solvent Extraction
Conventional Oven	Conventional Oven
EPA160.3	EPA method for preserved total solids
EPA1640m	DETERMINATION OF TRACE ELEMENTS IN WATER BY PRECONCENTRATION AND INDUCTIVELY COUPLED PLASMA-MASS SPECTROMETRY
EPA245.5	Mercury in Sediment (Cold Vapor with Permanganate Digestion)
EPA245.7	Mercury in water by cold-vapor atomic fluorescence spectrometry
EPA3050A	Strong Acid Hot Plate Method (EPA3050A)
EPA3050B	Strong Acid Hot Plate or Microwave Method (EPA3050B)
EPA3051	Strong Acid Microwave Method (EPA 3051)
EPA3052	From Standard Methods
EPA3052/3050B	From Standard Methods
EPA3053	From Standard Methods
EPA3055	Strong Acid Hot Plate Method (EPA 3055)
EPA6020m	Preservation of metals
EPA625m	Preservation of organic compounds
EPA8270Cm	Preservation of organic compounds
MASE	Microwave Assisted Solvent Extraction
MgNO <sub>3</sub>	Magnesium Nitrate
NA	No Applicable Prepcode
NR	Missing data
PSEP86	Sediment Grain Size

#### *IuList26\_EventTypes*

<b>EventTypeCode</b>
Bioaccumulation Event
Microbiology Station Occupation / Event
Sediment Grab Event
Trawl Assemblage Event
Water Quality Cast Event
Water Quality Discrete Sample Event

#### *IuList27\_ToxicityResultsMatrices*

<b>MatrixName</b>	<b>MatrixDescription</b>
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MatrixName	MatrixDescription
sediment	bulk sediment (whole sediment)
blankwater	Matrix free of interferences (reagent water) that is commercially or Lab-processed used for water QA sample
Sediment, interstitialwater	Water occupying the spaces between sediment particles-same as pore water
overlyingwater	The water above the sediment surface within a test container
referencetoxicant	Individual chemicals used to evaluate the health and sensitivity of test organisms over time and assessing laboratory performance
Sediment water interface	Toxicity sample just above the sediment

**IuList28\_Units**

Units	Description	AssociatedTable
UG/L WW	Micrograms per liter Wet Weight	All
UG/L DW	Micrograms per liter Dry Weight	All
MG/KG WW	Milligrams per kilogram Wet Weight	Chemistry – metals only
MG/KG DW	Milligrams per kilogram Dry Weight	
UG/KG WW	Micrograms per kilogram Wet Weight	Chemistry – organics only
UG/KG DW	Micrograms per kilogram Dry Weight	
PERCENT	Percent	Chemistry / Toxicity
MG/L	Milligrams per liter	Chemistry / Toxicity / Water Quality
KG	Kilograms	Fish & Invertebrate Abundance
CM	Centimeters	Grab Event
MM	Millimeters	Infauna
C	Degrees Centigrade	Micro
CFU/100ml	Colony Forming Units	Micro
MPN/100ml	Most Probable Number	Micro
M	Meters	Sediment Grab Event, Trawl Assemblage Event
FT	Feet	Station Occupation
KTS	Knots	Station Occupation
Hours	The number of hours	Toxicity
pH	Log of hydrogen ion concentration	Toxicity
Days	The number of days	Toxicity Batch

<b>Units</b>	<b>Description</b>	<b>AssociatedTable</b>
G	grams	Whole Fish Composites
M/S	Meters per second	WQ Cast
PSU	Practical Salinity Units	WQCast, StationOccupation
UG/L	micrograms per liter	All
PSI	Pounds per square inch (decibars)	Archival Data Tag
NR	Not Recorded	Toxicity

***IuList29\_FishBodyLocation***

<b>BodyLocation</b>
Branchial Cavity
Buccal Cavity
Eyes
Musculoskeleton
Skin / Fins

***IuList30\_MissingValueCodes***

<b>DataType</b>	<b>Code</b>
Date	01/Jan/SampleYear (i.e. 01/Jan/2013)
Time	-99
Numerical	-99
Text	NR

***IuList31\_QACodes***

<b>AcceptCode</b>	<b>CodeDescription</b>
A	Acceptable data for analysis
C	Reduced number of replicates
D	Control performance criteria not met
E	Sample stored > 14 days
G	Reference test missing or outside limits
H	Water quality data incomplete
J	Minor deviation in test conditions
K	Incoming sample temperature exceeds limits

Q	Control did not meet replicate acceptability criterion (>or=80% in any one rep)
O	Outlier
X	Excluded

*IuList34\_ToxicitySpecies*

SpeciesCode	SpeciesName
EE	Eohaustorius estuarium
MG	Mytilus galloprovincialis
NWA	Neanthes arenaceodentata

*IuList35\_ToxicityProtocols*

ProtocolCode	ProtocolDescription
ASTM 1853	ASTM. 1997. E 1853-96
EPA 1994	EPA amphipod test method (EPA/600/R-94/025)
EPA 4425	From standard methods.
USGS F10.6	From standard methods.
USGS F10.7	From standard methods.
USGS SOP F10.6	Sea Urchin Fertilization Toxicity Test
USGS SOP F10.7	Sea Urchin Embryological Development Test
ANDERSON1996	For Sediment Water Interface
EPA2007	For Sediment TIEs
EPA 1995	EPA Purple Sea Urchin Methods ((EPA/600/R-95/136))

*IuList36\_ToxicityMatrices*

MatrixCode	MatrixDescription
BS	Bulk Sediment (whole sediment)
DW	Dilution Water
EL	Elutriate
EX	Extract
IW	Interstitial Water (pore water)
OL	Overlaying Water
RT	Reference Toxicant
SWI	Sediment water interface

**IuList37\_ToxicityEndPoints**

EPCode	EndPoint
B[a]Peq	Benzo [a] Pyrene equivalents
DV	Percent Normal Pluteus Stage
EC50	median effective concentration
FP	Fertilized Percent
GR	Growth Rate (neanthes)
IC50	median inhibitory concentration
RL	relative luminescence
SP4	4 day survival percent
SP10	10 day survival percent
NPA	Percent normal-alive (mytilus)

**IuList38\_ToxicityWaterQualityParameters**

STWQCode	STWQName	Units
COND	Conductivity	uS/cm
DO	Dissolved Oxygen	mg/L
H2S	Hydrogen Sulfide	mg/L
NH3T	Total Ammonia	mg/L
NH3U	Unionized Ammonia	mg/L
PH	pH	pH
SAL	Salinity	g/L
ST	Total Sulfide	ug/L
TEMP	Temperature	C

**IuList39\_ToxicityTestAcceptabilityCodes**

AcceptCode	CodeDescription
A	Acceptable data for analysis
ACE	Combiination Code
AEHJ	Combination Code
AEK	Combination Code
AH	Combination Code
AHJ	Combination Code
AJ	Combination Code
AK	Combination Code
C	Reduced number of replicates

<b>AcceptCode</b>	<b>CodeDescription</b>
CDEH	Combination Code
D	Control performance criteria not met
DE	Combination Code
DEH	Combination Code
DJ	Combination of codes D and J
E	Sample stored > 14 days
EK	combination of codes E and K
G	Reference test missing or outside limits
H	Water quality data incomplete
HD	Combination Code
J	Minor deviation in test conditions
K	Incoming sample temperature exceeds limits
Q	Control did not meet replicate acceptability criterion (>or=80% in any one rep)
AC	Combination Code
EC	Combination Code
CJ	Combination Code
CJOX	Combination Code
CJQX	Combination Code
COQX	Combination Code
COX	Combination Code
CQ	Combination Code
EJ	Combination Code
EJQ	Combination Code
EQ	Combination Code
JQ	Combination Code
O	Outlier
U	Unaccounted for worm
X	Excluded

#### *IuList40\_TrawlFailure Codes*

<b>FailCode</b>	<b>TrawlEventFailureReason</b>	<b>Definition</b>
T1	None	No Failure, catch processed according to field manual.
T2	Outside Radius Limit	The trawl track was outside the field manual radius limit
T3	Outside Target Depth	The trawl track was outside the established site target depth by greater than 10%.
T4	Fouled Net (comment req.)	The net was fishing improperly because it was visibly fouled when bringing it onboard the vessel. Signs include twisted net/doors, bunched doors,

		improper spread of the net. How was the net fouled?
T5	Open cod end (knot untied)	Crew forgot to tie up the cod end of the net or the knot came loose. Animals could easily escape.
T6	Trawl hit unknown obstruction	The boat stops or feels a bump on the winch/wire.
T7	Doors - No contact with bottom	The catch is nearly empty with no obvious evidence of doors digging into the mud.
T8	Torn Net	Parts of the net were torn with potential of animals escaping.
T9	Unusually low catch	Catch was unexpectedly low. Cruise leader decides to re-trawl.
T10	Improper Deck Time	For depths less than 200m and crew did not use the surface time to bottom time table (expect 10 minutes).
T11	Improper Bottom Time	Pressure-Temperature sensor indicates an improper bottom time (expected range 8-15 minutes)
T12	Inadequate trawl track	Boat fathometer shows an even bottom but the pressure-temperature sensor shows an undulating bottom. Net may not have been working the bottom throughout trawl.
T13	Other - Trawl Failure (comment req.)	Reason, other than the ones listed, as to why the trawl failed.

#### *IuList41\_ControlResponseCodes*

Code	Description
NS	Not Significant
S	Significant
NA	Not Applicable

#### *IuList42\_TimeZoneCodes*

TimeZoneCode	TimeZoneCodeDescription
NR	Not Recorded
PDT	Pacific Daylight Savings Time
PST	Pacific Standard Time

#### *IuList43\_GrabFailureCodes*

FailCode	GrabEventFailureReason	Definition
G1	None	No Failure, grab processed according to field manual.
G2	Outside Radius Limit	An acceptable sample location was outside the field manual radius limit
G3	Outside Target Depth	An acceptable sample location was outside the established site target depth by greater than 10%. Canyon strata has a 20% limit.

G4	Premature closure	The grab closes before hitting the bottom. On board deck, grab typically filled with clear water.
G5	Flipped	Grab flipped with open jaws pointing upward (very dangerous).
G6	rocks/gravel	The grab had poor closure resulting in sample lose from rocks or gravel between jaws.
G7	dead shell	The grab had poor closure resulting in sample lose from dead shell hash between jaws.
G8	live animal (comment req.)	The grab had poor closure resulting in sample lose from a live animal between jaws. What animal?
G9	debris (comment req.)	The grab had poor closure resulting in sample lose from debris between jaws. What debris?
G10	Poor closure - other (comment req.)	The grab had poor closure resulting in sample lose from something other than what's listed. What caused the problem?
G11	Heavily Canted	Grab penetrated the sample at an angle and could have compromised the sample.
G12	Large Humping	Large amounts of humping along the midline indicates washing of the sample during retrieval. Minor humping is acceptable.
G13	Washed	Grab appears normal until opened, then sections have holes. Something cause the washing during retrieval. Sample unacceptable.
G14	Disturbed Surface	Sediment interface uneven with undulations. Indicates a mechanical closure problem or a potentially compromise sample (unacceptable).
G15	< 5 cm Penetration	In the field manual, minimum acceptable penetration depth for a chemistry sample is 5 cm or greater. Common in sandy habitats. Prefer penetration depths of 7-10+ cm.
G16	<= 7 cm Penetration - biology only	In the field manual, minimum acceptable penetration depth for a biology sample is greater than 7 cm. Can be difficult to obtain in sandy habitats. Prefer penetration depths of 8+ cm.
G17	Other - Grab Failure (comment req.)	Reason, other than the ones listed, as to why the grab failed.

#### IuList44\_ StationFailureCodes

FailCode	StationFailureReason	Definition
S1	None	No Failure, see event table for details.
S2	Temporary - sea conditions (comment req.)	Temporarily leave site because of rough seas. Give reason why.
S3	Temporary - atmosphere (comment req.)	Temporarily leave site because of wind, lightning, etc. Give reason why.
S4	Temporary - mechanical (comment req.)	Temporarily leave site because of vessel problems. Give reason why.
S5	Pre-abandoned (comment req.)	Site abandoned prior to beginning of survey. Give reason why.
S6	Site On Land (comment req.)	Site plots on land from vessel navigation system or nautical charts. Which system?
S7	Vessel safety (comment req.)	Captain refuses to sample site because of vessel safety procedures (e.g., too close to shore).

S8	No Access Allowed (comment req.)	An authority denies access to site for sampling (e.g., navy)
S9	Prolonged rough seas	After a temporary visit, site remains unsamplable due to rough seas and boat schedule conflicts.
S10	Bottom salinity <25psu	Field manual allows station abandonment if bottom salinity is less than 25 psu/ppt in the estuary strata.
S11	Too Shallow (comment req.)	Field manual allows station abandonment if depth shallower than 3 meters for the estuary strata and shallower than 6 meters in embayment and inner shelf strata. What was the depth and strata?
S12	Too many Event Failures (comment req.)	Field manual allows station abandonment if too many grab events (minimum of 6-9 attempts) or trawl events (minimum of 2 attempts) fail to collect samples. What event failed and why?
S13	Anthropogenic obstruction (comment req.)	A man-made obstacle (e.g., dock, freighter, immovable large debris, etc.) prevents sampling the site. What was the obstruction?
S14	Natural hard bottom obstructions (comment req.)	A natural obstacle (e.g., kelp bed, pinnacle, low relief rocky bottom, etc.) prevents sampling the site. What was the obstruction?
S15	Not trawlable - smooth, undulating bottom	Site unsuitable for trawling because of a smooth fluctuating bottom (irregular).
S16	Not samplable - other (comment req.)	For some reason site can not be sampled. Why?

#### IuList45\_PTSensorCategory

SensorCategory	SensorCategoryDescription
S	Surface
D	Descent
B	Bottom
R	Retrieval
NR	Not Recorded

#### IuList46\_PTSensorBoatCategories

SurveyLevel	SurveyLevelDescription
SB	Surface
DB	Descent
BB	Bottom
RB	Retrieval
NR	Not Recorded

***IuList47\_ToxicityStatisticalMethods***

SampleTypeCode	SampleTypeDescription
Dun	Dunnett's test comparing multiple means to a control
Fisher	Fisher's Exact
Mann-U	Mann-Whitney U-test
None	No Statistical Method
NR	Not Recorded
Steel	Steel's Many-One Rank
T-test	Paired T-test
Wilcox	Wilcoxon Rank Sum

***IuList48\_ToxicityTreatments***

\*Please note, you are not confined to the values in this look-up list. This table is merely examples of the Treatment, ConcentrationUnits, and Concentration combinations as they are required for CEDEN. Fill in the actual values in the data and the values will be given to CEDEN at the time of data submission.

Treatment	ConcentrationUnits	Concentration
Ammonia	mg/L	0
Ammonia	mg/L	2
Ammonia	mg/L	4
Ammonia	mg/L	6
Ammonia	mg/L	8
Ammonia	mg/L	10
Ammonia	mg/L	20
Ammonia	mg/L	15.6
Ammonia	mg/L	31.2
Ammonia	mg/L	62.5
Ammonia	mg/L	125
Ammonia	mg/L	250
None	None	-88
None	None	0
None	None	50
None	None	100
pH	None	0
Temperature	Deg C	15

*IuList49\_ToxicitySampleTypes*

SampleTypeCode	SampleTypeDescription
CNDL	Negative Control Dilution
CNEG	Clean water or sediment free of contaminants or test material used to determine test acceptability and as a baseline for gauging adverse effects among animals exposed to treatments.
CNSL	Clean water, sediment or test material free of contaminants that has been altered to reflect the salinity or conductivity of a particular sample. CNSL are prepared to control for the potential effects of the salinity or conductivity on test organisms
FieldBLDup_Grab	Field Blind Duplicate of a grab sample
FieldBLDup_Int	Field Blind Duplicate of an integrated sample
Grab	Single sample
RFST	Reference Stations have similar physical characteristics to monitoring stations, but contain low or non-detectable concentrations of contaminants. Used for statistical & biological comparisons to determine magnitude of toxicity in monitoring stations.

*IuList50\_ToxicityTemperatureConstituents*

Matrix	Method	Analyte	Fraction	Unit
Overlyingwater	Probe	Temperature	None	Deg C

*IuList52\_Datum*

Datum	Description
NAD83	NAD83
NR	Not Recorded
WGS84	WGS84
AGPS	Android GPS
WAAS	Wide Area Augmentation System

*IuList53\_StationWaterDepthConstituentCodes*

Matrix	Method	Analyte	Fraction	Unit
Habitat	FieldMeasure	StationWaterDepth	None	m
Habitat	FieldMeasure	StationWaterDepth	None	ft

*IuList54\_SwellDirectionConstituentCodes*

VariableResult	Matrix	Method	Analyte	Fraction	Unit
E	Habitat	FieldObservations	SwellDirection	None	None
N	Habitat	FieldObservations	SwellDirection	None	None

VariableResult	Matrix	Method	Analyte	Fraction	Unit
NE	Habitat	FieldObservations	SwellDirection	None	None
NR	Habitat	FieldObservations	SwellDirection	None	None
NW	Habitat	FieldObservations	SwellDirection	None	None
S	Habitat	FieldObservations	SwellDirection	None	None
SE	Habitat	FieldObservations	SwellDirection	None	None
SW	Habitat	FieldObservations	SwellDirection	None	None
W	Habitat	FieldObservations	SwellDirection	None	None
XX	Habitat	FieldObservations	SwellDirection	None	None

*IuList55\_SwellPeriodConstituentCodes*

Matrix	Method	Analyte	Fraction	Unit
Habitat	FieldObservation	SwellPeriod	None	m
Habitat	FieldObservation	SwellPeriod	None	ft

*IuList56\_SwellHeightConstituentCodes*

Matrix	Method	Analyte	Fraction	Unit
Habitat	FieldObservation	SwellHeight	None	m
Habitat	FieldObservation	SwellHeight	None	ft

*IuList57\_WindSpeedConstituentCodes*

Matrix	Method	Analyte	Fraction	Unit
Habitat	FieldMeasure	WindSpeed	None	kts

*IuList59\_SalinityConstituentCodes*

MatrixName	MethodName	AnalyteName	FractionName	UnitName
samplewater	FieldMeasure	Salinity	Total	ppt
samplewater	FieldMeasure	Salinity	Total	psu

*IuList60 PTSensorConstituentCodes*

Matrix	Method	Analyte	Fraction	Unit
samplewater	FieldMeasure	Temperature	None	Deg C

***IuList61\_Fractions***

Fraction Name
0.0039 to <0.0625 mm
0.005 to <0.075 mm
0.0625 to <2.0 mm
0.075 to <4.75 mm
2.0 to <4.0 mm
2.0 to <64 mm
4 to <64 mm
4.75 to <75 mm
64 to <256 mm
75 to <300 mm
<0.0039 mm
<0.005 mm
<0.0625 mm
<0.075 mm
=>256 mm
=>300 mm
Above
Above Bankfull Channel
Below
Chlora
Clay
Coarse 0.00195 to <0.0039 mm
Coarse 0.031 to <0.0625 mm
Coarse 0.5 to <1.0 mm
Coarse 2.0 to <4.75 mm
Dissolved
Fecal
Fine 0.0078 to <0.0156 mm
Fine 0.075 to <0.425 mm
Fine 0.125 to <0.25 mm
Fine <0.00098 mm
First Supplemental
Fixed

In Bankfull Channel
Large 128 to <256 mm
Large 16 to <32 mm
Main
Medium 0.00098 to <0.00195 mm
Medium 0.0156 to <0.031 mm
Medium 0.25 to <0.5 mm
Medium 0.425 to <2.0 mm
Medium 8 to <16 mm
None
Not Recorded
Particulate
Second Supplemental
Silt
Small 4 to <8 mm
Small 64 to <128 mm
Third Supplemental
Total
Total + Organic
Unionized
V. Coarse 1.0 to <2.0 mm
V. Fine 0.0039 to <0.0078 mm
V. Fine 0.0625 to <0.125 mm
V. Fine to Course 0.0625 to <1.0 mm
V. Fine to Medium 0.0039 to <0.031 mm
V. Fine to Medium 0.0625 to <0.5 mm
V. Large 32 to <64 mm
Volatile
Weak Acid Dissociable

## Appendix 2. Metadata

The data documentation approach outlined here is based on the Federal Geospatial Data Committee (FGDC) standard and has been selected to meet the needs of the Southern California Marine Monitoring Standard Data Transfer Formats, developed through the Regional Water Control Board and regional sampling Information Management Committee participants. All mandatory elements of the FGDC standard are

included. In addition, further elements, identified in the standard as mandatory if applicable, are required. Bolded elements represent special applications of metadata agreed upon by the Information Management committee. These elements, indicated by the words “**Standard Data Exchange Format Requirements**”, specify a prescribed reporting value (either numeric or textual). Finally, elements of the Biological Data Profile, referenced by the preface “BDP”, are included. All required elements have their section number underlined.

The metadata are used to document information about the dataset. Documentation should include all information about Event Types, which include Sediment Grabs, Trawl Assemblage, Bioaccumulation, Microbiology Station Occupation, Water Quality Casts, and the tables that are generated from the Event Type. For example, grab event metadata should include information about the sediment chemistry table and benthic infaunal abundance table, as well as the actual grab event table.

## **SECTION 1: IDENTIFICATION INFORMATION**

1 Identification Information -- basic information about the data set.

1.1 Citation -- information to be used to reference the data set.

1.2 Description -- a characterization of the data set, including its intended use and limitations.

1.2.1 Abstract -- a brief narrative summary of the data set.

1.2.2 Purpose -- a summary of the intentions with which the data set was developed.

1.2.3 Supplemental Information -- other descriptive information about the data set.

1.3 Time Period of Content -- time period(s) for which the data set corresponds to the currentness reference.

1.3.1 Currentness Reference -- the basis on which the time period of content information is determined.

1.4 Status -- the state of and maintenance information for the data set.

1.4.1 Progress -- the state of the data set.

1.4.2 Maintenance and Update Frequency -- the frequency with which changes and additions are made to the data set after the initial data set is completed.

1.5 Spatial Domain -- the geographic areal domain of the data set.

BDP1.5.1 Description of Geographic Extent-- Short description of the geographic areal domain of the data set.

BDP1.5.2 Bounding Altitudes-- the limits of coverage of a data set expressed by altitude.

BDP1.5.2.1 Altitude Minimum-- the minimum altitude extent of coverage.

BDP1.5.2.2 Altitude Maximum- the maximum elevation extent of coverage.

BDP1.5.2.3 Altitude Distance Units -- units in which altitudes are recorded.

1.5.1 Bounding Coordinates-- the limits of coverage of a data set expressed by latitude and longitude values in the order western-most, eastern-most, northern-most, and southern-most. For data sets that include a complete band of latitude around the earth, the West Bounding Coordinate shall be assigned the value -180.0, and the East Bounding Coordinate shall be assigned the value 180.0

1.5.1.1 West Bounding Coordinate -- western-most coordinate of the limit of coverage expressed in longitude.

1.5.1.2 East Bounding Coordinate -- eastern-most coordinate of the limit of coverage expressed in longitude.

1.5.1.3 North Bounding Coordinate -- northern-most coordinate of the limit of coverage expressed in latitude.

1.5.1.4 South Bounding Coordinate -- southern-most coordinate of the limit of coverage expressed in latitude.

1.5.2 Data Set G-Polygon -- coordinates defining the outline of an area covered by a data set. Repeat as needed.

Data Set G-Polygon Outer G-Ring -- the closed nonintersecting boundary of an interior area.

1.5.2.1.1 G-Ring Point -- a single geographic location.

1.5.2.1.1.1 G-Ring Latitude -- the latitude of a point of the g-ring.

1.5.2.1.1.2 G-Ring Longitude -- the longitude of a point of the g-ring.

1.5.2.1.2 G-Ring -- a set of ordered pairs of floating-point numbers, separated by commas, in which the first number in each pair is the longitude of a point and the second is the latitude of the point. Longitude and latitude are specified in decimal degrees with north latitudes positive and south negative, east longitude positive and west negative

1.5.2.2 Data Set G-Polygon Exclusion G-Ring -- the closed nonintersecting boundary of a void area (or "hole" in an interior area). G-Ring Latitude--the latitude of a point of the exclusionary boundary. G-Ring Longitude--the longitude of a point of the exclusionary boundary.

1.6 Keywords -- words or phrases summarizing an aspect of the data set.

**1.6.1 Theme** -- subjects covered by the data set (for a list of some commonly-used thesauri, see Part IV: Subject/index term sources in Network Development and MARC Standards Office, 1988, USMARC code list for relators, sources, and description conventions: Washington, Library of Congress). Repeat as needed.

**Standard Data Exchange Format Requirements:** minimally the key words must include the permit number, the event type, and all of the table names referred to in this document.

**1.6.1.1 Theme Keyword Thesaurus** -- reference to a formally registered thesaurus or a similar authoritative source of theme keywords.

**Standard Data Exchange Format Requirements:** Reported as "None"

**1.6.1.2 Theme Keyword** -- common-use word or phrase used to describe the subject of the data set. Repeat as needed.

1.6.2 Place -- geographic locations characterized by the data set. Repeat as needed.

1.6.2.1 Place Keyword Thesaurus -- reference to a formally registered thesaurus or a similar authoritative source of place keywords.

1.6.2.2 Place Keyword -- the geographic name of a location covered by a data set. Repeat as needed.

1.6.3 Stratum -- layered, vertical locations characterized by the data set. Repeat as needed.

1.6.3.1 Stratum Keyword Thesaurus -- reference to a formally registered thesaurus or a similar authoritative source of stratum keywords.

1.6.3.2 Stratum Keyword -- the name of a vertical location used to describe the locations covered by a data set. Repeat as needed.

1.6.4 Temporal -- time period(s) characterized by the data set. Repeat as needed.

1.6.4.1 Temporal Keyword Thesaurus -- reference to a formally registered thesaurus or a similar authoritative source of temporal keywords.

1.6.4.2 Temporal Keyword -- the name of a time period covered by a data set. Repeat as needed.

**BDP1.7 Taxonomy Information**--on the taxa (1 or more) included in the data set, including keywords, taxonomic system and coverage information, and taxonomic classification system.

BDP1.7.1. Keywords/Taxon--Taxonomic ranks or common groups characterized by the data set. Repeat as needed.

BDP1.7.1.1 Taxonomic Keyword Thesaurus--Reference to a formally registered thesaurus or similar authoritative source of taxonomic keywords.

BDP1.7.1.2 Taxonomic Keywords--Common-use words or phrases describing the taxonomy covered by the data set. Repeat as needed.

BDP1.7.2 Taxonomic System--Documentation of taxonomic sources, procedures, and treatments. Repeat as needed.

BDP1.7.2.1 Classification System/Authority--Information about the classification system or authority used.

BDP1.7.2.1.1 Classification System Citation--A citation for the classification system or authority used, this might include monographs (e.g., a regional flora) or on-line data sets (e.g., the USDA PLANTS database), etc.

BDP1.7.2.1.2 Classification System Modifications--A description of any modifications or exceptions made to the classification system or authority used.

BDP1.7.2.2 Identification Reference--Information on any non-authoritative materials (e.g. field guides) useful for reconstructing the actual identification process. Repeat as needed.

BDP1.7.2.3 Identifier--Information about the individual(s) responsible for the identification(s) of the specimens or sightings, etc. Repeat as needed.

BDP1.7.2.4 Taxonomic Procedures--Description of the methods used for the taxonomic identification. Could include specimen processing, comparison with museum materials, keys and key characters, chemical or genetic analyses, etc.

BDP1.7.2.5 Taxonomic Completeness--Information concerning the proportions and treatment of unidentified materials (i.e. materials sent to experts, and not yet determined); estimates of the importance, and identities of misidentifications, uncertain determinations, synonyms or other incorrect usages; taxa not well treated or requiring further work; and expertise of field workers

BDP1.7.2.6 Vouchers--Information on the types of specimen, the repository, and the individuals who identified the vouchers. Repeat as needed.

BDP1.7.2.6.1 Specimen--A word or phrase describing the type of specimen collected (e.g. herbarium specimens, blood samples, photographs, individuals, or batches).

BDP1.7.2.6.2 Repository--Information about the curator or contact person and/or agency responsible for the specimens.

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**BDP1.7.3 General Taxonomic Coverage**--A description of the range of taxa addressed in the data set or collection. For example, "all vascular plants were identified to family or species, mosses and lichens were identified as moss or lichen."

**Standard Data Exchange Format Requirements:** For surveys use a general description, not including the taxonomy of all species encountered.

**BDP1.7.4 Taxonomic Classification**--Information about the range of taxa addressed in the data set or collection. It is recommended that one provide information starting from the taxonomic rank of kingdom, to a level that reflects the data set or collection being documented. The levels of Kingdom, Division/Phylum, Class, Order, Family, Genus, and Species should be included as ranks as appropriate.

**Standard Data Exchange Format Requirements:** Use this section when the study is targeting a particular species or group of species, for example bioaccumulation.

For example, if the data set deals with the species "red maple" or Acer rubrum var. rubrum, then the contents might look like the following:

Taxonomic Classification:

Taxon Rank Name: Kingdom

Taxon Rank Value: Plantae

Applicable Common Name: plants

Taxonomic Classification:

Taxon Rank Name: Division

Taxon Rank Value: Magnoliaphyta

Taxonomic Classification:

Taxon Rank Name: Class

Taxon Rank Value: Magnoliopsida

Taxonomic Classification:

Taxon Rank Name: Subclass

Taxon Rank Value: Rosidae

Taxonomic Classification:

Taxon Rank Name: Order

Taxon Rank Value: Sapindales

Taxonomic Classification:

Taxon Rank Name: Family

Taxon Rank Value: Aceraceae

Applicable Common Name: maples

Taxonomic Classification:

Taxon Rank Name: Genus

Taxon Rank Value: Acer

Applicable Common Name: maples

Taxonomic Classification:

Taxon Rank Name: Species

Taxon Rank Value: Acer rubrum var. rubrum

Applicable Common Name: red maple

If the data set pertains to many species, then the Taxonomic Classification structure can be built by adding additional families under the Taxonomic Classification rank of order. If the taxon of interest is undefined at any taxonomic rank, omit that rank from the structure. (One authority for this information is the Integrated Taxonomic Information System (ITIS) located at: "<http://www.itis.usda.gov/plantproj/itis/>").

**BDP1.7.4.1 Taxon Rank Name**--The name of the taxonomic rank for which the Taxon Rank Value is provided. See the example included in the definition of Taxonomic Classification.

**BDP1.7.4.2 Taxon Rank Value**--The name representing the taxonomic rank of the taxon being described. See the example included in the definition of Taxonomic Classification.

**BDP1.7.4.3 Applicable Common Name**--Specification of applicable common names. These common names may be general descriptions of a group of organisms if appropriate (e.g. insects, vertebrate, grasses, waterfowl, vascular plants, etc.) Repeat as needed.

**1.7 Access Constraints** -- restrictions and legal prerequisites for accessing the data set. These include any access constraints applied to assure the protection of privacy or intellectual property, and any special restrictions or limitations on obtaining the data set.

**1.8 Use Constraints** -- restrictions and legal prerequisites for using the data set after access is granted. These include any use constraints applied to assure the protection of privacy or intellectual property, and any special restrictions or limitations on using the data set.

**Standard Data Exchange Format Requirements:** Include a description of the current state of taxonomy for this data set.

1.9 Point of Contact -- contact information for an individual or organization that is knowledgeable about the data set.

1.10 Browse Graphic -- a graphic that provides an illustration of the data set. The graphic should include a legend for interpreting the graphic.

1.10.1 Browse Graphic File Name -- name of a related graphic file that provides an illustration of the data set.

1.10.2 Browse Graphic File Description -- a text description of the illustration.

1.10.3 Browse Graphic File Type -- graphic file type of a related graphic file.

1.11 Data Set Credit -- recognition of those who contributed to the data set.

1.12 Security Information -- handling restrictions imposed on the data set because of national security, privacy, or other concerns.

1.12.1 Security Classification System -- name of the classification system.

1.12.2 Security Classification -- name of the handling restrictions on the data set.

1.12.3 Security Handling Description -- additional information about the restrictions on handling the data set.

1.13 Native Data Set Environment -- a description of the data set in the producer's processing environment, including items such as the name of the software (including version), the computer operating system, file name (including host-, path-, and filenames), and the data set size.

**Standard Data Exchange Format Requirements: the software and version containing the data at the originating agency.**

1.14 Cross Reference -- information about other, related data sets that are likely to be of interest.

BDP1.15. Analytical Tool--Tools, models, or statistical procedures that the data set is intrinsically bound to and are available for use in analyzing the data set. Examples include reconstructions of phylogenies, population viability analyses, community ordinations, most atmospheric and hydrological transport analyses, and inferences on the effects of climate change on forest composition and productivity. Enough information should be included such that a potential data user can easily determine why they might wish to acquire the analytical tool, and the methodology to acquire it. Repeat as needed.

BDP1.15.1 Analytical Tool Description--Description of the analytical tool, model, or statistical procedure.

BDP1.15.2 Tool Access Information--Information on the steps required to access the tool. Repeat as needed.

BDP1.15.2.1 Tool Access Instructions--Instructions on the steps required to access the tool, model, or statistical procedure.

BDP1.15.2.2 Tool Computer and Operating System--The brand of computer and its operating system that the tool, model, or statistical procedure requires.

BDP1.15.3 Tool Contact--The party from whom the tool, model, or statistical procedure may be obtained.

BDP1.15.3.4 Tool Citation--Citation information about the tool, model, or statistical procedure.

## **SECTION 2: DATA QUALITY INFORMATION**

2 Data Quality Information -- a general assessment of the quality of the data set. (Recommendations on information to be reported and tests to be performed are found in "Spatial Data Quality," which is chapter 3 of part 1 in Department of Commerce, 1992, Spatial Data Transfer Standard (SDTS) (Federal Information Processing Standard 173): Washington, Department of Commerce, National Institute of Standards and Technology.)

2.1 Attribute Accuracy -- an assessment of the accuracy of the identification of entities and assignment of attribute values in the data set.

**2.1.1 Attribute Accuracy Report** -- an explanation of the accuracy of the identification of the entities and assignments of values in the data set and a description of the tests used.

**Standard Data Exchange Format Requirements:** From field methods manual

2.1.2 Quantitative Attribute Accuracy Assessment -- a value assigned to summarize the accuracy of the identification of the entities and assignments of values in the data set and the identification of the test that yielded the value. Repeat as necessary.

2.1.2.1 Attribute Accuracy Value -- an estimate of the accuracy of the identification of the entities and assignments of attribute values in the data set.

2.1.2.2 Attribute Accuracy Explanation -- the identification of the test that yielded the Attribute Accuracy Value.

**2.2 Logical Consistency Report** -- an explanation of the fidelity of relationships in the data set and tests used.

**Standard Data Exchange Format Requirements:** Describe related tables included in this data set.

**2.3 Completeness Report** -- information about omissions, selection criteria, generalization, definitions used, and other rules used to derive the data set.

2.4 Positional Accuracy -- an assessment of the accuracy of the positions of spatial objects.

2.4.1 Horizontal Positional Accuracy -- an estimate of accuracy of the horizontal positions of the spatial objects.

2.4.1.1 Horizontal Positional Accuracy Report -- an explanation of the accuracy of the horizontal coordinate measurements and a description of the tests used.

2.4.1.2 Quantitative Horizontal Positional Accuracy Assessment -- numeric value assigned to summarize the accuracy of the horizontal coordinate measurements and the identification of the test that yielded the value.

2.4.1.2.1 Horizontal Positional Accuracy Value -- an estimate of the accuracy of the horizontal coordinate measurements in the data set expressed in (ground) meters.

2.4.1.2.2 Horizontal Positional Accuracy Explanation -- the identification of the test that yielded the Horizontal Positional Accuracy Value.

2.4.2 Vertical Positional Accuracy -- an estimate of accuracy of the vertical positions in the data set.

2.4.2.1 Vertical Positional Accuracy Report -- an explanation of the accuracy of the vertical coordinate measurements and a description of the tests used.

2.4.2.2 Quantitative Vertical Positional Accuracy Assessment -- numeric value assigned to summarize the accuracy of vertical coordinate measurements and the identification of the test that yielded the value.

2.4.2.2.1 Vertical Positional Accuracy Value -- an estimate of the accuracy of the vertical coordinate measurements in the data set expressed in (ground) meters.

2.4.2.2.2 Vertical Positional Accuracy Explanation -- the identification of the test that yielded the Vertical Positional Accuracy Value.

**2.5 Lineage** -- information about the events, parameters, and source data which constructed the data set, and information about the responsible parties. Repeat as needed.

**BDP2.5.1 Methodology**--Information about a single step of field and/or laboratory work. Repeat as needed.

**BDP2.5.1.1 Methodology Type**--The type of methodology being documented, such as field or laboratory methodology separately.

**Standard Data Exchange Format Requirements:** include field and laboratory methodology.

**BDP2.5.1.2 Methodology Identifier**--Keywords or phrases summarizing the field or laboratory methods used. Repeat as needed.

**BDP2.5.1.2.1 Methodology Keyword Thesaurus**--Reference to a formally registered thesaurus or a similar authoritative source of methodology keywords.

2.5.1 Source Information -- list of sources and a short discussion of the information contributed by each. Repeat as needed.

BDP2.5.1.2.2 Methodology Keyword--The name of a method used in the field or laboratory work. Repeat as needed.

**BDP2.5.1.3 Methodology Description**--Equivalent to "Materials and Methods" in a journal article. Describe the physical methods used to gather data, the experimental design, sample frequency, treatments or strata, statistical and spatial design of the sampling, and sample completeness, representativeness, and biases. For example, in a bird survey, relevant elements would include the methods used to detect species occurrences (casual sightings, transects, focal point surveys, vocalizations, mist nets), whether or not evidence of breeding activity was required, descriptions of the habitat strata in a stratified design, and known biases (e.g., non-territorial birds were under sampled, and some juveniles could not be identified to species.)

**Standard Data Exchange Format Requirements:** describe application of methods

BDP2.5.1.4 Methodology Citation-- Information referencing the methods used.

**2.5.1 Source Information**-- List of sources and a short discussion of the information contributed by each. Repeat as needed.

**Standard Data Exchange Format Requirements:** Report as "None"

2.5.1.1 Source Citation -- reference for a source data set.

2.5.1.2 Source Scale Denominator -- the denominator of the representative fraction on a map (for example, on a 1:24,000-scale map, the Source Scale Denominator is 24000). Repeat as needed.

2.5.1.3 Type of Source Media -- the medium of "digital database file" "field notes" "photographic print" "printed table" "visually observed or measured"

2.5.1.4 Source Time Period of Content -- time period(s) for which the source data set corresponds to the ground.

2.5.1.4.1 Source Currentness Reference -- the basis on which the source time period of content information of the source data set is determined.

2.5.1.5 Source Citation Abbreviation -- short-form alias for the source citation.

2.5.1.6 Source Contribution -- brief statement identifying the information contributed by the source to the data set.

2.5.2 Process Step -- information about a single event. Repeat as needed.

**2.5.2.1 Process Description** -- an explanation of the event and related parameters or tolerances.

**Standard Data Exchange Format Requirements:** Report as "None" or "Not Applicable"

2.5.2.2 Source Used Citation Abbreviation -- the Source Citation Abbreviation of a data set used in the processing step. Repeat as needed.

**2.5.2.3 Process Date** -- the date when the event was completed.

**Standard Data Exchange Format Requirements:** Report as "Unknown"

2.5.2.4 Process Time -- the time when the event was completed.

2.5.2.5 Source Produced Citation Abbreviation -- the Source Citation Abbreviation of an intermediate data set that (1) is significant in the opinion of the data producer, (2) is generated in the processing step, and (3) is used in later processing steps. Repeat as needed.

2.5.2.6 Process Contact -- the party responsible for the processing step information.

2.6 Cloud Cover -- area of a data set obstructed by clouds, expressed as a percentage of the spatial extent.

### **SECTION 3: SPATIAL DATA ORGANIZATION INFORMATION**

**Standard Data Exchange Format Requirements:** This section is not used.

### **SECTION 4: SPATIAL REFERENCE INFORMATION**

**Standard Data Exchange Format Requirements:** This section is not used.

### **SECTION 5: ENTITY AND ATTRIBUTE INFORMATION**

5 Entity and Attribute Information -- details about the information content of the data set, including the entity types, their attributes, and the domains from which attribute values may be assigned.

5.1 Detailed Description -- description of the entities, attributes, attribute values, and related characteristics encoded in the data set.

5.1.1 Entity Type -- the definition and description of a set into which similar entity instances are classified.

**5.1.1.1 Entity Type Label** -- the name of the entity type.

**Standard Data Exchange Format Requirements:** the name of the table from the

Southern California Marine Monitoring Standard Data Transfer Formats.

**5.1.1.2 Entity Type Definition** -- the description of the entity type.

**Standard Data Exchange Format Requirements:** reported as "table"

5.1.1.3 Entity Type Definition Source -- the authority of the definition.

**Standard Data Exchange Format Requirements:** reported as

"Southern California Marine Monitoring Standard Data Transfer Formats."

5.1.2 Attribute -- a defined characteristic of an entity. Repeat as needed.

**Standard Data Exchange Format Requirements:** Spreadsheet, database, ASCII,

5.1.2.1 Attribute Label -- the name of the attribute.

**Standard Data Exchange Format Requirements:** the name of the field

5.1.2.2 Attribute Definition -- the description of the attribute

**Standard Data Exchange Format Requirements:** the description of the field from  
the Southern California Marine Monitoring Standard Data Transfer Formats

5.1.2.3 Attribute Definition Source -- the authority of the definition.

**Standard Data Exchange Format Requirements:** Reported as "Southern California Marine Monitoring Standard Data Transfer Formats"

5.1.2.4 Attribute Domain Values -- the valid values that can be assigned for an attribute. Repeat as needed.

5.1.2.4.1 Enumerated Domain -- the members of an established set of valid values. Repeat as needed.

5.1.2.4.1.1 Enumerated Domain Value -- the name or label of a member of the set.

- 5.1.2.4.1.2 Enumerated Domain Value Definition -- the description of the value.
- 5.1.2.4.1.3 Enumerated Domain Value Definition Source -- the authority of the definition.
- 5.1.2.4.2 Range Domain -- the minimum and maximum values of a continuum of valid values. Repeat as needed.
- 5.1.2.4.2.1 Range Domain Minimum -- the least value that the attribute can be assigned.
- 5.1.2.4.2.2 Range Domain Maximum -- the greatest value that the attribute can be assigned.
- 5.1.2.4.3 Codeset Domain -- reference to a standard or list which contains the members of an established set of valid values. Repeat as needed.
- 5.1.2.4.3.1 Codeset Name -- the title of the codeset.
- 5.1.2.4.3.2 Codeset Source -- the authority for the codeset.
- 5.1.2.4.4 Unrepresentable Domain -- description of the values and reasons why they cannot be represented. Repeat as needed.
- 5.1.2.5 Attribute Units of Measure -- the standard of measurement for an attribute value.
- 5.1.2.6 Attribute Measurement Resolution -- the smallest unit increment to which an attribute value is measured.
- 5.1.2.7 Beginning Date of Attribute Values -- earliest or only date for which the attribute values are current. In cases when a range of dates are provided, this is the earliest date for which the information is valid.
- 5.1.2.8 Ending Date of Attribute Values -- latest date for which the information is current. Used in cases when a range of dates are provided.
- 5.1.2.9 Attribute Value Accuracy Information -- an assessment of the accuracy of the assignment of attribute values.
- 5.1.2.9.1 Attribute Value Accuracy -- an estimate of the accuracy of the assignment of attribute values.
- 5.1.2.9.2 Attribute Value Accuracy Explanation -- the definition of the Attribute Value Accuracy measure and units, and a description of how the estimate was derived.
- 5.1.2.10 Attribute Measurement Frequency -- the frequency with which attribute values are added.
- 5.2 Overview Description -- summary of, and citation to detailed description of, the information content of the data set.
- 5.2.1 Entity and Attribute Overview -- detailed summary of the information contained in a data set.
- 5.2.2 Entity and Attribute Detail Citation -- reference to the complete description of the entity types, attributes, and attribute values for the data set.

## ***SECTION 6: DISTRIBUTION INFORMATION***

- 6 Distribution Information -- information about the distributor of and options for obtaining the data set.
- 6.1 Distributor -- the party from whom the data set may be obtained.
- 6.2 Resource Description -- the identifier by which the distributor knows the data set.
- 6.3 Distribution Liability -- statement of the liability assumed by the distributor.
- 6.4 Standard Order Process -- the common ways in which the data set may be obtained or received, and related instructions and fee information. Repeat as needed.
- 6.4.1 Non-digital Form -- the description of options for obtaining the data set on non-computer- compatible media.
- 6.4.2 Digital Form -- the description of options for obtaining the data set on computer-compatible media. Repeat as needed.
- 6.4.2.1 Digital Transfer Information -- description of the form of the data to be distributed.
- 6.4.2.1.1 Format Name -- the name of the data transfer format.
- 6.4.2.1.2 Format Version Number -- version number of the format.
- 6.4.2.1.3 Format Version Date -- date of the version of the format.
- 6.4.2.1.4 Format Specification -- name of a subset, profile, or product specification of the format.
- BDP6.4.2.1.5 ASCII File Structure-- Information about the content and format of an ASCII data file.
- BDP6.4.2.1.5.1 Record Delimiter--The character(s) which indicate the end of a record.
- BDP6.4.2.1.5.2 Number Header Lines--The number of lines at the beginning of the file before the data content actually begins.
- BDP6.4.2.1.5.3 Description of Header Content- Description of the information content of the header lines.
- BDP6.4.2.1.5.4 Orientation--Definition of the direction of information content as represented in the ASCII file. Typical data sets are represented in column-major format, where each attribute in the data set is represented as a column and each observation is a row. In contrast, row-major data sets represent attributes as rows and observations as columns. For example, if one has 3 observations (1,2,3) of two attributes (A,B), in column-major format the first record of the datafile would contain the first observation for both attributes (values A1,B1), but in row-major format the first record would contain all of the observations for only attribute A (values A1,A2,A3).
- BDP6.4.2.1.5.5 Case Sensitive--If the content of the data set is encoded in case-sensitive ASCII (the capital and small letters have meaning), then this element should contain "y" or "Y", otherwise this element should contain "n" or "N".

BDP6.4.2.1.5.6 Authentication--Information allowing verification of file contents to ensure accurate transmission of the file. This is generally a named checksum that uses a standard algorithm or a cryptographic signature. For example, a MD5 checksum could be provided and, if it matches a MD5 checksum calculated for the received file, one would conclude that the file is identical to the original.

BDP6.4.2.1.5.7 Quote Character--Character used to quote fields in the data representation so that the field delimiter can be used as part of the field value. This character is typically a single quote mark or double quote mark. For example, in a field representing a person's name, one might use double quotes around the field (e.g., "Johnson, M.") to indicate that the embedded comma in the text string is not a field delimiter.

BDP6.4.2.1.5.8 Data Field Information--describing the individual data fields (this would be equivalent to columns in most databases). Repeat as needed.

BDP6.4.2.1.5.8.1 Data Field Name -- of the data field. This name should be the same as an Attribute Label documented in Section 5.1.2 Attribute (within Detailed Description which is itself within Entity and Attribute Information). The definition, domain, units of measure, and measurement resolution are all important pieces of information for ASCII file use.

BDP6.4.2.1.5.8.1.2 Missing Value Code-- The code which represents missing data.

BDP6.4.2.1.5.8.1.3 Data Field Width Delimiter--The character which indicates the end of the data field contents.

BDP6.4.2.1.5.8.1.4 Data Field Width The number-- of characters of the data field.

6.4.2.1.5 Format Information Content -- description of the content of the data encoded in a format.

File Decompression Technique -- recommendations of algorithms or processes (including means of obtaining these algorithms or processes) that can be applied to read or expand data sets to which data

6.4.2.1.7 Transfer Size -- the size, or estimated size, of the transferred data set in megabytes.

6.4.2.2 Digital Transfer Option -- the means and media by which a data set is obtained from the distributor.

6.4.2.2.1 Online Option -- information required to directly obtain the data set electronically.

6.4.2.2.1.1 Computer Contact Information -- instructions for establishing communications with the distribution computer.

6.4.2.2.1.1.1 Network Address -- the electronic address from which the data set can be obtained from the distribution computer.

6.4.2.2.1.1.1.1 Network Resource Name -- the name of the file or service from which the data set can be obtained.

6.4.2.2.1.1.2 Dialup Instructions -- information required to access the distribution computer remotely through telephone lines.

6.4.2.2.1.1.2.1 Lowest BPS -- lowest or only speed for the connection's communication, expressed in bits per second.

6.4.2.2.1.1.2.2 Highest BPS -- highest speed for the connection's communication, expressed in bits per second. Used in cases when a range of rates are provided.

6.4.2.2.1.1.2.3 Number DataBits -- number of data bits in each character exchanged in the communication.

6.4.2.2.1.1.2.4 Number StopBits -- number of stop bits in each character exchanged in the communication.

6.4.2.2.1.1.2.5 Parity -- parity error checking used in each character exchanged in the communication.

6.4.2.2.1.1.2.6 Compression Support -- data compression available through the modem service to speed data transfer.

6.4.2.2.1.1.2.7 Dialup Telephone -- the telephone number of the distribution computer. Repeat as needed.

6.4.2.2.1.1.2.8 Dialup File Name -- the name of a file containing the data set on the distribution computer. Repeat as needed.

6.4.2.2.1.2 Access Instructions -- instructions on the steps required to access the data set.

6.4.2.2.1.3 Online Computer and Operating System -- the brand of distribution computer and its operating system.

6.4.2.2.2 Offline Option -- information about media-specific options for receiving the data set.

6.4.2.2.2.1 Offline Media -- name of the media on which the data set can be received.

6.4.2.2.2.2 Recording Capacity -- the density of information to which data are written. Used in cases where different recording capacities are possible.

6.4.2.2.2.2.1 Recording Density -- the density in which the data set can be recorded. Repeat as needed.

6.4.2.2.2.2.2 Recording Density Units -- the units of measure for the recording density.

6.4.2.2.2.2.3 Recording Format -- the options available or method used to write the data set to the medium. Repeat as needed.

Compatibility Information -- description of other limitations or requirements for using the medium.

6.4.3 Fees -- the fees and terms for retrieving the data set.

6.4.4 Ordering Instructions -- general instructions and advice about, and special terms and services provided for, the data set by the distributor.

6.4.5 Turnaround -- typical turnaround time for the filling of an order.

6.5 Custom Order Process -- description of custom distribution services available, and the terms and conditions for obtaining these services.

6.6 Technical Prerequisites -- description of any technical capabilities that the consumer must have to use the data set in the form(s) provided by the distributor.

6.7 Available Time Period -- the time period when the data set will be available from the distributor.

## **SECTION 7: METADATA REFERENCE INFORMATION**

7 Metadata Reference Information -- information on the currentness of the metadata information, and the responsible party.

7.1 Metadata Date -- the date that the metadata were created or last updated.

7.2 Metadata Review Date -- the date of the latest review of the metadata entry.

7.3 Metadata Future Review Date -- the date by which the metadata entry should be reviewed.

7.4 Metadata Contact -- the party responsible for the metadata information.

7.5 Metadata Standard Name -- the name of the metadata standard used to document the data set.

**7.6 Metadata Standard Version** -- identification of the version of the metadata standard used to document the data set.

**Standard Data Exchange Format Requirements:** FGDC-STD-001-1998 March 30, 2001

7.7 Metadata Time Convention -- form used to convey time of day information in the metadata entry. Used if time of day information is included in the metadata for a data set.

7.8 Metadata Access Constraints -- restrictions and legal prerequisites for accessing the metadata. These include any access constraints applied to assure the protection of privacy or intellectual property, and any special restrictions or limitations on obtaining the metadata.

7.9 Metadata Use Constraints -- restrictions and legal prerequisites for using the metadata after access is granted. These include any metadata use constraints applied to assure the protection of privacy or intellectual property, and any special restrictions or limitations on using the metadata.

7.10 Metadata Security Information -- handling restrictions imposed on the metadata because of national security, privacy, or other concerns.

7.10.1 Metadata Security Classification System -- name of the classification system for the metadata.

7.10.2 Metadata Security Classification -- name of the handling restrictions on the metadata.

7.10.3 Metadata Security Handling Description -- additional information about the restrictions on handling the metadata.

7.11 Metadata Extensions -- a reference to extended elements to the standard which may be defined by a metadata producer or a user community. Extended elements are elements outside the Standard, but needed by the metadata producer. If extended elements are created, they must follow the guidelines in Appendix D, Guidelines for Creating Extended Elements to the Content Standard for Digital Geospatial Metadata.

7.11.1 Online Linkage -- the name of an online computer resource that contains the metadata extension information for the data set. Entries should follow the Uniform Resource Locator convention of the Internet.

7.11.2 Profile Name -- the name given to a document that describes the application of the Standard to a specific user community.

## **SECTION 8: CITATION INFORMATION**

8 Citation Information -- the recommended reference to be used for the data set. (Note: this section provides a means of stating the citation of a data set, and is used by other sections of the metadata standard. This section is never used alone.)

8.1 Originator -- the name of an organization or individual that developed the data set. If the name of editors or compilers are provided, the name must be followed by "(ed.)" or "(comp.)" respectively. Repeat as needed.

8.2 Publication Date -- the date when the data set is published or otherwise made available for release.

8.3 Publication Time -- the time of day when the data set is published or otherwise made available for release.

8.4 Title -- the name by which the data set is known.

8.5 Edition -- the version of the title.

**8.6 Geospatial Data Presentation Form** -- the mode in which the geospatial data are represented.

**Standard Data Exchange Format Requirements:** tabular digital data

8.7 Series Information -- the identification of the series publication of which the data set is a part.

8.7.1 Series Name -- the name of the series publication of which the data set is a part.

8.7.2 Issue Identification -- information identifying the issue of the series publication of which the data set is a part.

8.8 Publication Information -- publication details for published data sets.

8.8.1 Publication Place -- the name of the city (and state or province, and country, if needed to identify the city) where the data set was published or released.

- 8.8.2 Publisher -- the name of the individual or organization that published the data set.
- 8.9 Other Citation Details -- other information required to complete the citation.
- 8.10 Online Linkage -- the name of an online computer resource that contains the data set. Entries should follow the Uniform Resource Locator convention of the Internet.
- 8.11 Larger Work Citation -- the information identifying a larger work in which the data set is included.

#### ***SECTION 9: TIME PERIOD INFORMATION***

9 Time Period Information -- information about the date and time of an event. (Note: this section provides a means of stating temporal information, and is used by other sections of the metadata standard. This section is never used alone.)

9.1 Single Date/Time -- means of encoding a single date and time.

9.1.1 Calendar Date -- the year (and optionally month, or month and day).

9.1.2 Time of Day -- the hour (and optionally minute, or minute and second) of the day.

BDP9.1.1 Geologic Age

BDP9.1.1.1 Geologic Time Scale

BDP9.1.1.2 Geologic Age Estimate

BDP9.1.1.3 Geologic Age Uncertainty

BDP9.1.1.4 Geologic Age Explanation

BDP9.1.1.5 Geologic Citation

9.2 Multiple Dates/Times -- means of encoding multiple individual dates and times. Repeat as needed.

9.2.1 Calendar Date -- the year (and optionally month, or month and day).

9.2.2 Time of Day -- the hour (and optionally minute, or minute and second) of the day.

BDP9.2.1 Geologic Age

BDP9.2.1.1 Geologic Time Scale

BDP9.2.1.2 Geologic Age Estimate

BDP9.2.1.3 Geologic Age Uncertainty

BDP9.2.1.4 Geologic Age Explanation

BDP9.2.1.5 Geologic Citation

9.3.1 Range of Dates/Times -- means of encoding a range of dates and times.

9.3.1.1 Beginning Date -- the first year (and optionally month, or month and day) of the event.

9.3.1.2 Beginning Time -- the first hour (and optionally minute, or minute and second) of the day for the event.

9.3.1.3 Ending Date -- the last year (and optionally month, or month and day) for the event.

9.3.1.4 Ending Time -- the last hour (and optionally minute, or minute and second) of the day for the event.

BDP9.3.1. Beginning Geologic Age

BDP9.3.1.1 Geologic Age

BDP9.3.1.1.1 Geologic Time Scale

BDP9.3.1.1.2 Geologic Age Estimate

BDP9.3.1.1.3 Geologic Age Uncertainty

BDP9.3.1.1.4 Geologic Age Explanation

BDP9.3.1.1.5 Geologic Citation

BDP9.3.2 Ending Geologic Age

BDP9.3.2.1 Geologic Age

BDP9.3.2.1.1 Geologic Time Scale

BDP9.3.2.1.2 Geologic Age Estimate

BDP9.3.2.1.3 Geologic Age Uncertainty

BDP9.3.2.1.4 Geologic Age Explanation

BDP9.3.2.1.5 Geologic Citation

#### ***SECTION 10: CONTACT INFORMATION***

**10 Contact Information** -- Identity of, and means to communicate with, person(s) and organization(s) associated with the data set.

(Note: this section provides a means of identifying individuals and organizations, and is used by other sections of the metadata standard. This section is never used alone.)

**10.1 Contact Person Primary** -- the person, and the affiliation of the person, associated with the data set. Used in cases where the association of the person to the data set is more significant than the association of the organization to the data set.

**10.1.1 Contact Person** -- the name of the individual to which the contact type applies.

**Standard Data Exchange Format Requirements:** Name and Position of responsible individual.

**10.1.2 Contact Organization** -- the name of the organization to which the contact type applies.

**10.2 Contact Organization Primary** -- the organization, and the member of the organization, associated with the data set. Used in cases where the association of the organization to the data set is more significant than the association of the person to the data set.

**10.3 Contact Position** -- the title of individual.

**10.4 Contact Address** -- the address for the organization or individual.

**10.4.1 Address Type** -- the information provided by the address.

**10.4.2 Address** -- an address line for the address. Repeat as needed.

**10.4.3 City** -- the city of the address.

**10.4.4 State or Province** -- the state or province of the address.

**10.4.5 Postal Code** -- the ZIP or other postal code of the address.

**10.4.6 Country** -- the country of the address.

**10.5 Contact Voice Telephone** -- the telephone number by which individuals can speak to the organization or individual. Repeat as needed.

**10.6 Contact TDD/TTY Telephone** -- the telephone number by which hearing-impaired individuals can contact the organization or individual. Repeat as needed.

**10.7 Contact Facsimile Telephone** -- the telephone number of a facsimile machine of the organization or individual. Repeat as needed.

**10.8 Contact Electronic Mail Address** -- the address of the electronic mailbox of the organization or individual. Repeat as needed.

**10.9 Hours of Service** -- time period when individuals can speak to the organization or individual.

**10.10 Contact Instructions** -- supplemental instructions on how or when to contact the individual or organization.

## **Appendix 3. Acronym Glossary**

**AIM** - Agency Information Management coordinator

**CEDEN** – California Environmental Data Exchange Network

**CIA** – Contamination Investigation and Assessment

**FGDC** - Federal Geographic Data Committee

**IMO** - Project Information Management Officer

**IMS** - Information Management System

**luList** - Look-up list - contains a constrained list of values allowable in the specified field

**PT** – Pressure / Temperature

**SDTP** – Standard Data Transfer Protocol

**QA/QC** - Quality Assurance / Quality Control

**TBL** - table

**TSC** - Technical Subcommittee Chairs