How do I download data from Chesapeake Bay Program's Data Hub?

Follow the step-by-step guide below to help you with the process of downloading data from Chesapeake Bay Program. The below walkthrough will follow one specific example, but should help provide tips and tools for the general method that you can apply to your data download needs:

If you know you want to download water quality data from CBP Water Quality Database (1984-present), then you can skip Steps 1-4 below and instead <u>navigate to this data download directly by clicking this link</u>. Resume guide at Step 5.

- 1. Navigate to http://www.chesapeakebay.net/data
- 2. Scroll down the page until you see the section labeled "Data Downloads"



Water Quality

- CBP Water Quality Database (1984-present)
- CBP Toxics Database
- CBI Water Quality Database (1949-1982)
- Alliance Citizen Monitoring Database (Exit CBP)
- National Estuarine Research Reserve System (NERRS) (Exit CBP)
- USGS River Input Monitoring Database (Exit CBP)

Living Resources

- Baywide Benthic Database
- Baywide CBP Plankton Database
- 3. Click on the database you are interested in downloading data from. A popular choice is "CBP Water Quality Database (1984-present)" as highlighted in blue below:

Data Downloads

Water Quality

- CBP Water Quality Database (1984-present)
- CBP Toxics Database
- CBI Water Quality Database (1949-1982)
- Alliance Citizen Monitoring Database (Exit CBP)
- National Estuarine Research Reserve System (NERRS) (Exit CBP)
- USGS River Input Monitoring Database (Exit CBP)
- 4. Let's choose **"CBP Water Quality Database (1984-present)".** Once you've clicked on that selection the window will look like this:

1 partice		Bay Resource Library
THE SELECTION IS SHOWN		Text Size: A A
Home Bay Resource Library	Bay Data Download	1001 0420. A A, F
Photos	CBP Water Quality Database (1984-pre	esent)
Maps	Data Type: Measured and calculated physical and nutrient parameters	
Videos	Geographic Extent: Chesapeake Bay and tidal tributaries	
	Date Range: 1984-present	
Publications	Data is currently being collected under the following grants: CB98361804, CB98385	303, CB98382503, CB97315902, CB97322001,
Bay Data	CB97301002	
	The CBP Water Quality Database is rebuilt from 5:00 AM to 6:00 AM eastern stand will be incomplete.	dard time. Data downloaded between these times
	Alert: Latitude/longitude and UTM coordinates for water quality monitoring stations The error occurred during the conversion to NAD83 and involved almost every station	were corrected July 23, 2000, 10:00 am EDT. on. We apologize for the inconvenience.
	Download the Data	

5. Click on the blue button labeled "**Download the Data**" and the window will then change to display:

DataHub								
Water Quality	Living Resources	Fluorescence	Nutrient Point Source	Toxics	API	Contact Us		
Water O	uality							
		-al and putriant parame	ators					
Data is currently be	sing collected under the Clea	an Water Act 117 fundi	eters ng.					
Alert: Latitude/long	itude and UTM coordinates	for water quality moni	toring stations were corrected Jul	y 23, 2000, 10:0	0 am EDT.			
The error occurred	during the conversion to N	AD83 and involved alm	ost every station. We apologize fo	or the inconveni	ence.			
Source:		Select Se	ource	¥	0			

6. Click on the rectangular box that says "**Select Source**..." and choose your data source (note the date ranges for each source).

			ataHub			
Water Quality	Living Resources	Fluorescence	Nutrient Point Source	Toxics	API	C
Water Qu	uality					
Data Type : WaterQ Data is currently bei	uality and calculated physion ing collected under the Cle	cal and nutrient param an Water Act 117 fundi	eters ng.			
Alert: Latitude/longi The error occurred o	tude and UTM coordinates during the conversion to N	for water quality moni AD83 and involved alm	toring stations were corrected Jul ost every station. We apologize fo	y 23, 2000, 10:0 or the inconven	00 am EDT. ience.	
Source:		Select Source 🔻				
	CBP Water Quality	/ Data (1984 - prese	nt)			
	Historical CBI Wat	er Quality Data (194	19 - 1982)			

If you are unsure of which option to choose you can hover your mouse cursor or 'mouseover' the black circular question mark to view some tips to aid your selection:

Water Quality	Living Resources	Fluorescence	Nutrient Point Source	Toxics	API	(
Water Qu Data Type: Water Data is currently be Alert: Latitude/long The error occurred	Quality and calculated physic ing collected under the Clea itude and UTM coordinates during the conversion to Na	cal and an Wate for wat AD83 at data collection conditions over	ality Data (1984 – present) - Th ring dataset is a compilation of ti tations for Maryland, Virginia, an vell as nontidal data throughout t established in June 1984 as a long and analysis to establish baselin he Bay and to monitor changes ir r time.	e CBP Water dal data (mainba d the District of he watershed. T -term program o e water quality water quality	ay he EDT. of	
		Historical CBI comprised of p the Chesapeak between 1949	Water Quality Data (1949 – 198 ohysical parameters and nutrient ie Bay Institute of the Johns Hopk and 1982.	2) - A dataset data collected b ins University	у	

Let's choose "CBP Water Quality Data (1984 – present)". For all DNR water quality data the source is "CBP Water Quality (1984-present).

Once you click on that option a new selection rectangle will appear where you can "Select Data Type..." You can 'mouseover' the black question mark to view details about each option.

Water Qualit Data Type: Water Qualit Data is currently being of Alert: Latitude/longitud The error occurred duri	lity ty and calculated physical and nutrient parameters collected under the Clean Water Act 117 funding. a and UTM coordinates for water quality monitoring stations were corrected July 23, 2000, 10 ing the conversion to NAD83 and involved almost every station. We apologize for the inconve	1:00 am EDT. inience.
Source:	CBP Water Quality Data (1984 - present)	Ø
Data Type:	Select Data Type	Ø
	Station Information	
	Monitoring Event Data	
	Water Quality Data	
	Light Attenuation Data	
	Optical Density Data	

8. Let's choose "Water Quality Data", so click on this option.

If you mouseover the question mark you will be able to read about each type of data:

Station Information - contains information related to each of the monitoring stations such as a description of location, latitude and longitude, hydrologic unit (HUC8), and FIPS (state/county). Monitoring Event Data - contains information related to sampling events such as weather, total depth, pycnocline depth(s), and air temperature.

Water Quality Data - contains physical and chemical parameter concentrations at specific depths within the water column.

Light Attenuation Data - contains measurements of photosynthetically active radiation (PAR) at specific

depths within the water column. These values are used to calculate the light attenuation coefficient (Kd) using the equation Kd=ln(PAR at surface - PAR at depth)/depth.

Optical Density Data - contains spectrophotometric or fluorometric measurements of optical density at specific depths within the water column. These values are used to calculate monochromatic active chlorophyll-a (CHLA) and pheophytin (PHEO). They can also be used to calculate trichromatic chlorophyll-a, chlorophyll-b, and chlorophyll-c.

Water Quality	Living Resources	Fluorescence	Nutrient Point Source	Toxics	API	
Water Qu Data Type: Water Qu Data is currently beir Alert: Latitude/longit The error occurred d	ality and calculated physic ng collected under the Clea ude and UTM coordinates luring the conversion to N/	al and nutrient param an Water Act 117 fundi for water quality moni AD83 and involved alm	eters Ig. Foring stations were corrected Jul Sost every station. We apologize fo	y 23, 2000, 10:0 or the inconveni	0 am EDT. ence.	
Source:	C	CBP Water Quality Data (1984 - present)				
Data Type:		Select Data Type				
	Station Informatio	n				
	Monitoring Event	Data				
	Water Quality Data	a				
	Light Attenuation	Data				
	Optical Density Da	ata				

9. When you've selected "Water Quality Data", another suite of selections will appear:

Water Quality	Living Resources	Fluorescence	Nutrient Point Source	Toxics	API	(
Water 0	ualitv					
Data Type: Water Data is currently b Alert: Latitude/long The error occurred	Quality and calculated physi eing collected under the Cle gitude and UTM coordinates during the conversion to N	cal and nutrient param an Water Act 117 fundi i for water quality mon AD83 and involved alm	eters ng. itoring stations were corrected Jul iost every station. We apologize fo	y 23, 2000, 10:0 r the inconveni	0 am EDT. ence.	
Source:	(CBP Water Quality D)ata (1984 - present)	•	0	
Data Type:		Water Qu	ality Data	•	0	
Start Date:	5/1/2015	E	nd 8/31/2015 Date:			
Program:		Select a P	rogram	•	0	
	All Programs					
	NTWQM - Nontida	al Water Quality Mo	nitoring Program			
	SWM - Shallow Wa	ater Monitoring Pro	grams			
	TWQM - Tidal Wat	er Quality Monitori	ng Program			

This is where you will choose the date range for the data you are interested in, and which type of data you are interested in. *Remember, there's information about each option if you mouseover the black question mark.*

When you first arrive at this selection point the start and end dates automatically populate with current dates, but you can change these to your selection. You can either enter numerical values for dates *OR* choose dates using the calendar icon to the right of the numeric dates. If you click on the calendar icon, and then click on the month and year it will change your selection to a choice of month within the current calendar year (*as pictured below*), and you can use the forward and back arrows to cycle through years:

Vater Qua	ality					
ita Type: WaterQua ita is currently being ert: Latitude/longitu e error occurred du	lity and calculated physica collected under the Clear de and UTM coordinates for ring the conversion to NAL	l and nutrient parameters n Water Act 117 funding. or water quality monitoring sta 283 and involved almost every	tions were station. W	corrected apologize	July 23, 20 for the in	00, 10:00 ai convenienc
Source:	CE	3P Water Quality Data (198	4 - prese	nt)		•
Data Type:		Water Quality Date	a			•
Start Date:	3/28/2011	End Date:	3/28/20	16		
_		Date.	•	20)16	×
Program:		Select a Program.	Jan	Feb	Mar	Apr
			May	Jun	Jul	Aug
			Sep	Oct	Nov	Dec
			Mo	nday, Ma	arch 28, 2	016

Now that you know two different ways to select your start and end dates, let's go back to our example:

Water Quality	Living Resources	Fluorescence	Nutrient Point Sou	rce Toxics	API	
Wator O	uality					
	uality					
Data Type: WaterQ Data is currently be	uality and calculated physion ing collected under the Cle	cal and nutrient param an Water Act 117 fundi	eters ng.			
Alert: Latitude/long	itude and UTM coordinates	for water quality moni	toring stations were correct	ted July 23, 2000, 10	:00 am EDT.	
me en or occurred	daming the conversion to N	Abos and involved all	oscevery station, we apole	Bize for the inconve	mence.	
Source:	(BP Water Quality D	ata (1984 - present)	•	Ø	
Data Turan						
Data Type:		Water Qu	ality Data	•	0	
Start Date:	5/1/2015	E	nd 8/31/2015	Ē		
	5/112015		ate:			
Program:		Select a D	rogram		0	
5		Select a P	logram	•	v	
	All Programs					
	NTWQM - Nontida	al Water Quality Mo	nitoring Program			
	SWM - Shallow Wa	ater Monitoring Pro	grams			
	TWQM - Tidal Wat	er Quality Monitori	ng Program			

In this example, we have entered the Start Date as **5/1/2015** and the End Date as **8/31/2015** to look at water quality values for summer 2015.

Next, let's choose "Tidal Water Quality Monitoring Program".

 Once you've clicked on "Tidal Water Quality Monitoring Program" a new dropdown menu will appear to "Select a Project". You can choose between "Tidal Mainstem" or "Tidal Tributary" Monitoring Projects, or choose "All Projects".

I nere's information about each option if you mouseover the black question mai	out each option if you mouseover the black question	mark
--	---	------

Water Quality	Living Resources	Fluorescence	Nutrient Point Source	Toxics	API		
Water Q	uality						
Data Type: WaterQ	uality and calculated physi	cal and nutrient param	eters				
Data is currently be	ing collected under the Cle	an Water Act 117 fundi	ng.		O FDT		
The error occurred	during the conversion to N	AD83 and involved alm	lost every station. We apologize fo	or the inconven	ience.		
Source:		CBP Water Quality D)ata (1984 - present)	•	0		
Data Type:		Water Quality Data					
Start Date:	5/1/2015	E	nd 8/31/2015	Ē			
			Date:				
Program:	TWQ	M - Tidal Water Qua	lity Monitoring Program	•	0		
Drojecti					•		
Project.		Select a Project 🔻					
	All Projects						
	MAIN - Tidal Main	stem Water Quality	Monitoring Project				
	PART - Tidal Non-	Traditional Partners	No Reco	rds Available			
	TRIB - Tidal Tribut	ary Water Quality N	Ionitoring Project				
	TSPECIAL - Specia	l Tidal Water Quality	y Monitoring Project No Reco	rds Available			

Let's choose "All Projects", so click on that selection.

11. Once you've chosen "All Projects" you are then prompted to choose a "Geographical Attribute"

Water Quality	Living Resources	Fluorescence	Nutrient Point Source	Toxics	API	
Water Qua Data Type: Water Qua Data is currently being Alert: Latitude/longitur The error occurred du	ality lity and calculated physion g collected under the Cle de and UTM coordinates ring the conversion to N	cal and nutrient param an Water Act 117 fund : for water quality mor AD83 and involved aln	neters ing. vitoring stations were corrected J nost every station. We apologize	uly 23, 2000, 10: for the inconver	00 am EDT. Jience.	
Source:	(CBP Water Quality [Data (1984 - present)	•	Ø	
Data Type:		Water Qu	uality Data	•	0	
Start Date:	5/1/2015	Ē	End 8/31/2015 Date:			
Program:	TWQ	M - Tidal Water Qu	ality Monitoring Program	•	0	
Project:		All Pr	ojects	•	0	
Geographical Attribute:	Hydrologic Unit (H	Select a Geographical Attribute Hydrologic Unit (HUC8)				
	Small Watershed County/City (FIPS) Monitoring Segme Monitoring Segme Monitoring Statio	(HUC12) ent (CBSeg2003) entShed (SegmentS n	hed2009)			

The black question mark information is especially helpful when trying to choose a Geographical Attribute, look at the information by hovering your mouse cursor over the black circular question mark:

Water Quality

Data Type: WaterQuality and calculated physical and nutrient parameters Data is currently being collected under the Clean Water Act 117 funding.

Alert: Latitude/longitude The error occurred durin	and UTM coordinates for wat ig the conversion to NAD83 at	Hydrologic Unit (HUC8) - The United States Geological Survey has developed a system that assigns drainage areas throughout the nation to a particular region, subregion, accounting unit and
Source:	CBP Wa	cataloging unit. Cataloging units, or 8-digit hydrologic units (HUCs) as they are commonly called, delineate small to medium sized drainage areas. Within the Mid-Atlantic Region, there are four
Data Type:		subregions (0205 – 0208) that are at least partially comprised of drainage areas within the Chesapeake Bay watershed.
Start Date:	3/28/2011	CBP Map Subwatershed (HUC12) - Within each HUC8, there are 12-digit
		hydrologic units known as subwatersheds that comprise the entire Chesapeake Bay watershed. more info
Program:	TWQM - Tid	County/City (FIPS) - the Federal Information Processing System
Project:		(FIPS) assigns 5-digit codes to all counties and incorporated cities in the United States. The first two digits correspond to the state and the last three to the county or incorporated city within that state.
Geographical Attribute:	Sele	Monitoring Segment - In 1998, the Chesapeake Bay Program redefined its monitoring segmentation scheme to be based upon salinity regime. The following suffixes are associated with areas based upon salinity levels in parts per thousand (ppt): TF (tidal fresh) - 0.0 to 0.5 ppt, OH (oligohaline) - 0.5 to 5.0 ppt, MH (mesohaline) - 5.0 to 18.0 ppt, PH (polyhaline) - 18.0 to 35.0 ppt
		СВР Мар
		Monitoring SegmentShed (SegmentShed2009) - A segmentshed is the discrete land area that drains into each of the 92 Bay Program segments that have TMDLs associated with them.CBP Map.
		Monitoring Station - Refers to the text identifier used to denote a CBP monitoring station.Map of CBP mainstream and tributary long-term monitoring stations

Note that there are links to additional information for some of the options, as denoted by the blue text. These links are very helpful for determining what geographical attribute is most appropriate for the data you need, and also how CBP designates the name for the area you are interested in. Let's choose "**Monitoring Segment (CBSeg2003)**"

12. Once you've clicked on "Monitoring Segment (CBSeg2003)" a list of the **Attribute Selections** will populate where you can choose which selection or selections you would like to choose. Note that a blank window for "Parameter" initially displays, and will not provide selections until you choose your sites or segments, so <u>choose</u> your "Attribute Selections" first.

In the below screenshot, the left-hand list of "Attribute Selections" has all the site/segment/area options to choose from, and the initially blank right-hand rectangle is where your selections will show up when you choose them.

Project:		All Projects		T
Geographical Attribute:	Monitorin	g Segment (CB	Seg2003)	•
Attribute Selection:	ANATF - Anacostia River-Tidal Fresh Region APPTF - Appomattox River-Tidal Fresh Region BACOH - Back River-Oligohaline Region BIGMH - Big Annemessex River- Mesohaline Region BOHOH - Bohemia River- Oligohaline Region			
Parameter:		4		
Format:	Click on option to select	© XML	CSV	JSON
	Wrap text values in quotes	Submit	View i windo	n browser w

To **choose a site**, **or several sites** you just click on each one in the left-hand list and it will immediately appear in the right-hand list. Note that there are up and down arrows on the side of the left-hand list of sites/segments/areas so that you can scroll to other options in the alphabetical list. If you accidentally add a selection that you want to remove, just click on it in the right-hand list and it will be immediately deselected.

To choose **ALL the sites** at once click on the forward and backward facing arrows between the two Attribute Selection panes and all the sites/segments will be added to your right-hand selection list, which would look like this example (*notice that the parameter list has populated with options*):



Next, undo the selection for all sites by again clicking on the double arrows between the Attribute Selection panes. Your right-hand rectangle should now be empty like this:

Attribute Selection:	ANATF - Anacostia River-Tidal Fresh Region	-		
	APPTF - Appomattox River-Tidal Fresh Region			
	BACOH - Back River-Oligohaline Region		<u>_</u>	
	BIGMH - Big Annemessex River- Mesohaline Region			
	BOHOH - Bohemia River- Oligohaline Region			
	Click on option to select	•		

Ok, that was good practice, but let's choose a site and move on. Select "BIGMH – Big Annemessex River – Mesohaline Region"

Attribute Selection:	ANATF - Anacostia River-Tidal Fresh Region			BIGMH - Big Annemessex River- Mesohaline Region
	APPTF - Appomattox River-Tidal Fresh Region			
	BACOH - Back River-Oligohaline Region		\rightarrow	
	BOHOH - Bohemia River- Oligohaline Region		4-	
	BSHOH - Bush River-Oligohaline Region			
	Click on option to select	•		
Parameter:	CHLA - Active Chlorophyll-A			
	DIN - Dissolved Inorganic Nitrogen			
	DO - Dissolved Oxygen In MG/L			
	DON - Dissolved Organic Nitrogen			
	DOP - Dissolved Organic Phosphorus		4	
	FSS - Fixed Suspended Solids			
	NH4F - Ammonium Nitrogen As N (Filtered Sample)	-		
	Click on option to select			

13. Now that you've chosen the site/segment/area you can now choose which parameters you are interested in investigating. You can use the same method to choose parameters as you did to choose your site/segment/area, either choosing one or a few parameters by clicking on each one, or choosing all of them by clicking on the double arrows between the two panes.

Let's choose "Di	ssolved Oxygen", "pH", "Salii	nity", and	"Water Temperature":
Parameter:	SPCOND - Conductivity Corrected	•	DO - Dissolved Oxygen In MG/L
	Salinity		PH - Ph Corrected For Temperature (25 Deg C)
	TDN - Total Dissolved Nitrogen		CALINITY Colinity Units Are Dorts

TDP - Total Dissolved Phosphorus			Per Thousand (Ppt) And Are Equal
TN - Total Nitrogen		\Rightarrow	To Practical Salnity Units (Psu).
TON - Total Organic Nitrogen		4	WTEMP - Water Temperature
TP - Total Phosphorus			
TSS - Total Suspended Solids			
VSS - Volatile Suspended Solids	-		

14. Now you are ready to choose what format you would like for your data download, and whether you'd also like to "view in a browser window" (Note that this 'browser-view' option only works for small datasets):

Format:	TAB	○ XML	CSV	JSON
	Wrap text values in quotes	Submit	View i windo	n browser ow
				Ø

Let's choose **TAB** (*the data will be Tab-delimited, meaning a 'Tab' separates each data field*) and then click the blue "**Submit**" button (*I chose not to select any other options, we'll get back to those*).

Wait for the download to complete.

***NOTE**: if you select "View in browser window your file will not download, it will only open in a browser window if your dataset is small enough to be viewed this way)

15. Check your downloaded files folder you should see your requested file, in the below image my downloaded file shows up in the footer of my browser window

Windows 7, 8, or 10 instructions for finding a downloaded file Mac Instructions for finding a downloaded file



You may have also noticed that a URL populated in the empty box, and next to this is a question-mark with a tip that says, "The following URL will yield this query with up to date data". This URL can be copied and saved and used to retrieve your query again. To save this URL: click in the box and hit **Ctrl-a** (press the *Ctrl* button and the letter *a* at the same time) to "**select all**", next **copy the text** by hitting **Ctrl-c**, and choose a location to paste this URL and then hit **Ctrl-v** to **paste** the link. An important note is that this URL will only work with small dataset queries. Try copying and pasting this URL into a new browser window address line, and you should see your data displayed like the below image:

(If you had selected "**View in browser window**" before hitting "Submit" this would have happened automatically IF your selected dataset was small enough to be displayed in this format. However, if you chose this option your file will not have downloaded separately.)

← → C 🗋 data.chesapeakebay.net,	′api.Tab/WaterQuali	ty/WaterQuality/3-	28-2011/3-28-201	6/6/7,16,23,24/CBSeg200	03/6/31,73,83,123			🔍 😭 💠
CBSeg2003 CBSeg2003Description SampleReplicateType Parameter	EventId Statio Qualifier	n Source Project MeasureValue	t SampleDate Unit Method	SampleTime Depth Lab Problem Detai	TotalDepth ls Latitude	Layer Longit	SampleType ude	
UpperPycnocline LowerPycnocline								
BIGMH Big Annemessex River-Mesohal 11.50000 MG/L F01	ine Region 29952	ET9.1 MDDNR 38.05500	TRIB 2/13/20 -75.80167	13 11:34:00	3.5 4.5	В	ISM M1	DO
BIGMH Big Annemessex River-Mesohal 11.60000 MG/L F01	ine Region 29952	ET9.1 MDDNR 38.05500	TRIB 2/13/20 -75.80167	13 11:34:00	1 4.5	М	ISM M1	DO
BIGMH Big Annemessex River-Mesohal 11.60000 MG/L F01	ine Region 29952	ET9.1 MDDNR 38.05500	TRIB 2/13/20 -75.80167	13 11:34:00	2 4.5	М	ISM M1	DO
BIGMH Big Annemessex River-Mesohal 11.50000 MG/L F01	ine Region 29952	ET9.1 MDDNR 38.05500	TRIB 2/13/20 -75.80167	13 11:34:00	3 4.5	М	ISM M1	DO
BIGMH Big Annemessex River-Mesohal 11.60000 MG/L F01	ine Region 29952	ET9.1 MDDNR 38.05500	TRIB 2/13/20 -75.80167	13 11:34:00	0.5 4.5	S	ISM M1	DO
BIGMH Big Annemessex River-Mesohal 11.50000 MG/L F01	ine Region 30181	ET9.1 MDDNR 38.05500	TRIB 3/26/20 -75.80167	13 11:34:00	4.5 5.5	В	ISM M1	DO
BIGMH Big Annemessex River-Mesohal 11.60000 MG/L F01	ine Region 30181	ET9.1 MDDNR 38.05500	TRIB 3/26/20 -75.80167	13 11:34:00	1 5.5	М	ISM M1	DO
BIGMH Big Annemessex River-Mesohal 11.70000 MG/L F01	ine Region 30181	ET9.1 MDDNR 38.05500	TRIB 3/26/20 -75.80167	13 11:34:00	2 5.5	М	ISM M1	DO

If you click in the browser window on the data, you can hit Ctrl-a to select all, Ctrl-c to copy it to your clipboard, and if you open a destination (e.g. Excel or notepad) you can Ctrl-v and paste the data into a new file.

16. Your downloaded TAB file:

One option for viewing your downloaded file is to open it in **Excel**. Open the Excel program, click on "Open" and navigate to your downloaded TAB delimited file. Note that Excel generally defaults to only show "All Excel files" as you are browsing, so you will likely need to choose "All Files" to be able to see your downloaded file (*see image below*). Locate your downloaded file and click **open**.

Network		
🖓 Control Panel 🔻 🛀 👘	_	
File name:	-	All Excel Files (*.xl*;*.xlsx;*.xlsm; 💌
Tools	•	All Files (*.*) All Excel Files (*.xl*;*.xlsx;*.xlsx;*.xlsx;*.xlsx;*.xlsx;*.xltx;*.htm;*.html;*.mht;*.mhtml;*.xml;*.xla;*.xlm;*.xla;*.xdx;*.odc;*.uxdc;*.ods)
		Excel Files (*.xl*;*.xlsx;*.xlsm;*.xlsb;*.xlam;*.xlb;*.xltm;*.xls;*.xla;*.xlt;*.xlm;*.xlw)
		All Web Pages (*.htm;*.html;*.mht;*.mhtml)
		XML Files (* xml)
		Text Files (pri), JXX, JSV) All Data Sources (* dota' uda' deni* mdni* mdni* accedni* accedni* dhei* ima* dma* ema* oma* cubi* uvde)
		An Data Sources (.ouc, .ou, .ou, .ou, .nus), .muo, .muo, .accue, .accue, .auc, .auy, .auy, .auy, .ouy, .cus, .axac)
		Query Files (*.iav:*.dav:*.oav:*.rav)
		dBase Files (*.dbf)
		Microsoft Excel 4.0 Macros (*.xlm;*.xla)
		Microsoft Excel 4.0 Workbooks (*.xlw)
		Worksheets (*.xlsx;*.xlsm;*.xlsb;*.xls)
		Workspaces (*.kw)
		Templates ("xito;"xitti;"xit) Adel Jae ("viewe" viewe" viewe
		Addrains (Jaani, Jada Jal) Toolbar (*xlb)
		SVIK Files (*.slk)
		Data Interchange Format (*.dif)
		Backup Files (* xik; *.bak)
		OpenDocument Spreadsheet (*.ods)

17. You should now see a window with a "Text Import Wizard" prompt:

Text Import Wizard - Step 1 of 3
The Text Wizard has determined that your data is Delimited.
If this is correct, choose Next, or choose the data type that best describes your data.
Original data type
Choose the file type that best describes your data:
Openmitted - Characters such as commas or tabs separate each field.
Fixed width - Fields are aligned in columns with spaces between each field.
Start import at row: 1 File origin: 437 : OEM United States
Preview of file C:\Users\RBurrell\Downloads\WaterOualityWaterOualityCBSeq2003.tsv.
1 CBSeg2003CBSeg2003DescriptionEventIdStationSourceProjectSampleDate 2 BIGMH Big Annemessex River-Mesobaline Region29952ET9 1MDDNRTRIB2/13
3 BIGMH Big Annemessex River-Mesohaline Region29952ET9.1MDDNRTRIB2/13
4 BIGMH Big Annemessex River-Mesohaline Region29952ET9.1MDDNRTRIB2/13
Cancel < Back <u>N</u> ext > <u>F</u> inish

18. Recall that we chose this file to be "Tab" delimited, so choose "Delimited" here, and click Next.

19. In Step 2 of 3 of the Text Import Wizard, choose "Tab", and click Next.

Text Import Wi	zard - Step 2 of 3
This screen lets below.	you set the delimiters your data contains. You can see how your text is affected in the preview
Delimiters	Treat consecutive delimiters as one Text gualifier:
CBSeg2003 BIGMH BIGMH BIGMH BIGMH	CBSeg2003Description EventId Station Source Pro Big Annemessex River-Mesohaline Region 29952 ET9.1 MDDNR TR Big Annemessex River-Mesohaline Region 29952 ET9.1 MDDNR TR
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20. In Step 3 of 3 you can choose data formats for specific columns. I left everything as "General" except for the date column, which I selected as "Date" and "MDY" (month day year) format. And then choose **Finish**.

ext Import	Wizard -	Step 3 of 3						?	×
his screen le Column dat O <u>G</u> enera <u>T</u> ext <u>D</u> ate: Do not	ets you sel a format l <u>MDY</u> import colu	ect each col	umn and set the 'General' conv. remaining valu	: Data Format. erts numeric values to text.	ues to nu Advar	mbers, date val	ues to da	ites, and a	all
Data previe General Station	W General Source MDDNR	l <u>General</u> Project TRIB	MDY SampleDate 2/13/2013	General SampleTime 11:34:00	Genera Depth 3.5	General TotalDepth 4.5	Genera Layer B	General Sample1 ISM	^
ET9.1 ET9.1 ET9.1 ET9.1	MDDNR MDDNR MDDNR	TRIB TRIB TRIB	2/13/2013 2/13/2013 2/13/2013	11:34:00 11:34:00 11:34:00	1 2 3	4.5 4.5 4 5	M M	ISM ISM ISM	_

21. Your data should now be arranged in an excel table format in discrete columns and rows, and is ready for you to begin analyzing:

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1	CBSeg200	CBSeg200	EventId	Station	Source	Project	SampleDa	SampleTir	Depth	TotalDept	Laver	SampleTy	SampleRe	Paramete	Qualifier	' Measure\	Unit	Method	Lab	P	
2	BIGMH	Big Anner	29952	ET9.1	MDDNR	TRIB	****	11:34:00	3.5	4.5	В	ISM	M1	DO		11.5	MG/L	F01			
3	BIGMH	Big Annen	29952	ET9.1	MDDNR	TRIB	*****	11:34:00	1	4.5	м	ISM	M1	DO		11.6	MG/L	F01			
4	BIGMH	Big Anner	29952	ET9.1	MDDNR	TRIB	*****	11:34:00	2	4.5	м	ISM	M1	DO		11.6	MG/L	F01			
5	BIGMH	Big Anner	29952	ET9.1	MDDNR	TRIB	****	11:34:00	3	4.5	м	ISM	M1	DO		11.5	MG/L	F01			
6	BIGMH	Big Anner	29952	ET9.1	MDDNR	TRIB	*****	11:34:00	0.5	4.5	S	ISM	M1	DO		11.6	MG/L	F01			
7	BIGMH	Big Anner	30181	ET9.1	MDDNR	TRIB	*****	11:34:00	4.5	5.5	В	ISM	M1	DO		11.5	MG/L	F01			
8	BIGMH	Big Anner	30181	ET9.1	MDDNR	TRIB	*****	11:34:00	1	5.5	М	ISM	M1	DO		11.6	MG/L	F01			
9	BIGMH	Big Anner	30181	ET9.1	MDDNR	TRIB	*****	11:34:00	2	5.5	М	ISM	M1	DO		11.7	MG/L	F01			
10	BIGMH	Big Anner	30181	ET9.1	MDDNR	TRIB	*****	11:34:00	3	5.5	М	ISM	M1	DO		11.7	MG/L	F01			
11	BIGMH	Big Anner	30181	ET9.1	MDDNR	TRIB	*****	11:34:00	4	5.5	М	ISM	M1	DO		11.6	MG/L	F01			
12	BIGMH	Big Anner	30181	ET9.1	MDDNR	TRIB	*****	11:34:00	0.5	5.5	S	ISM	M1	DO		11.6	MG/L	F01			
13	BIGMH	Big Anner	30451	ET9.1	MDDNR	TRIB	*****	12:12:00	4.7	5.7	В	ISM	M1	DO		8.7	MG/L	F01			
14	BIGMH	Big Anner	30451	ET9.1	MDDNR	TRIB	*****	12:12:00	1	5.7	М	ISM	M1	DO		8.4	MG/L	F01			
15	BIGMH	Big Anner	30451	ET9.1	MDDNR	TRIB	*****	12:12:00	2	5.7	М	ISM	M1	DO		8.4	MG/L	F01			
16	BIGMH	Big Anner	30451	ET9.1	MDDNR	TRIB	*****	12:12:00	3	5.7	М	ISM	M1	DO		8.6	MG/L	F01			
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