



# Introduction to EQuIS @ NCDEQ

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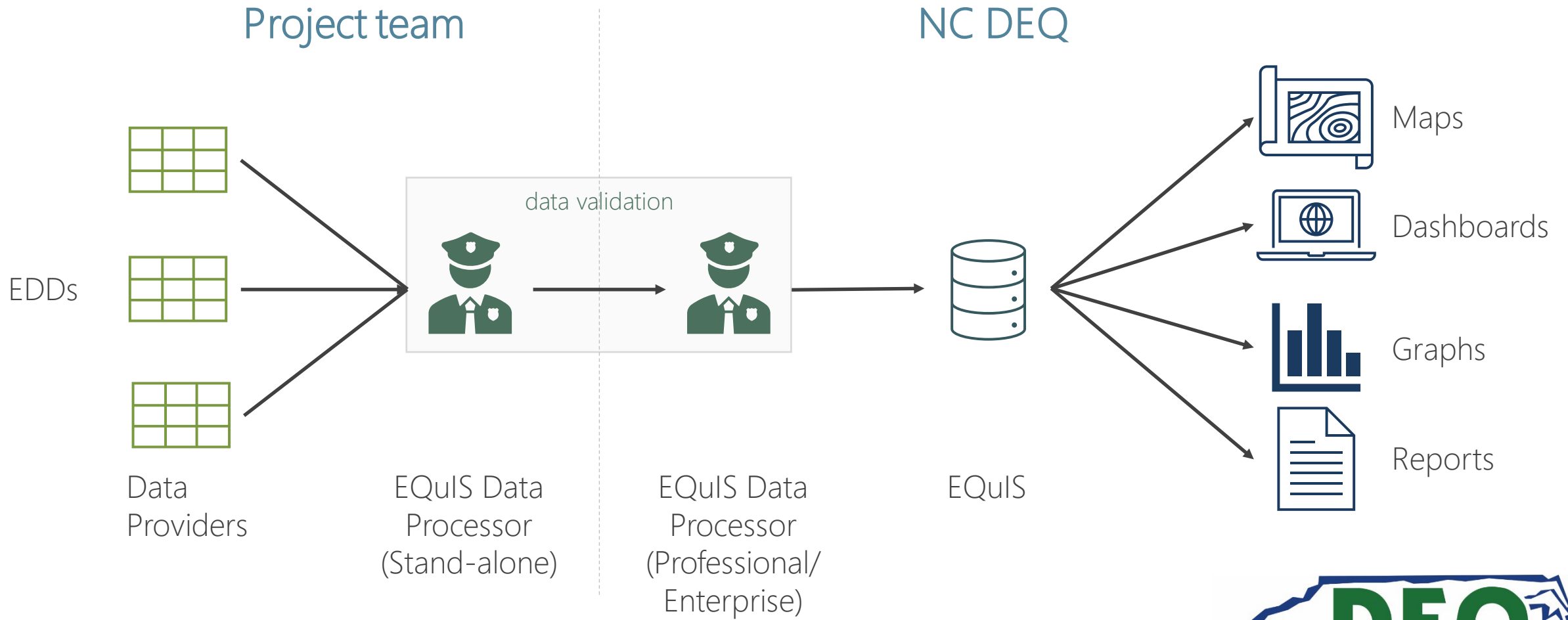
# NC DEQ ♥'s EQuIS

This new tool speeds up workflows eliminating unnecessary lag time and expands the capabilities of what staff can do with data collected from multiple sources. Having environmental sampling/monitoring data stored in one location allow staff to conduct analyses that have never been possible. These types of analyses expand spatial awareness within several Divisions, increasing the ability to work towards common goals.

Key to the success of EQuIS is the ability to take in external data submissions (EDDs). This reduces the amount of staff time spent on manipulating and formatting datasets.



# EQulS Data flow



# What is an EDD?

## Electronic Data Deliverable (EDD)

EDDs are electronic tabular formats for sharing, manipulating and using data. Access databases, Excel spreadsheets, and tab delimited text files are all examples of EDDs.

	AB	AC	AD	AE	AF	AG	AH	AI
1	cas_rn	chemical_name	result_value	result_unit	result_error_delta	result_type_code	reportable_result	detect_flag
2	Text(15)	Text(255)	Numeric	Text(15)	Text(20)	Text(10)	Text(10)	Text(2)
3	13252-13-1	Perfluoro-2-methyl-3-oxahexanoic acid (GenX)				TRG	Yes	N
4	1763-23-1	Perfluorooctanesulfoi	319 ng/L			TRG	Yes	Y
5	2058-94-8	Perfluoroundecanoic acid (PFUnA)				TRG	Yes	N
6	2355-31-9	N-methyl perfluoroooc	65.9 ng/L			TRG	Yes	Y
7	2706-90-3	Perfluoropentanoic a	1160 ng/L			TRG	Yes	Y
8	2706-91-4	Perfluoropentanesulf	58.4 ng/L			TRG	Yes	Y
9	27619-97-6	2 Fluorotelomer su	219 ng/L			TRG	Yes	Y
10	29311-67-1	Nafion Byproduct 1 (PFESA BP1)				TRG	Yes	N
11	2991-50-6	N-ethyl perfluoroocta	63.3 ng/L			TRG	Yes	Y
12	307-24-4	Perfluorohexanoic ac	2490 ng/L			TRG	Yes	Y
13	307-55-1	Perfluorododecanoic acid (PFDoA)				TRG	Yes	N
14	335-67-1	Perfluorooctanoic aci	1290 ng/L			TRG	Yes	Y
15	335-76-2	Perfluorodecanoic acid (PFDA)				TRG	Yes	N
16	335-77-3	Perfluorodecanesulfonic acid (PFDS)				TRG	Yes	N
17	355-46-4	Perfluorohexanesulfo	974 ng/L			TRG	Yes	Y
18	375-73-5	Perfluorobutanesulfo	1400 ng/L			TRG	Yes	Y
19	375-85-9	Perfluoroheptanoic a	610 ng/L			TRG	Yes	Y
20	375-92-8	Perfluoroheptanesulfonic acid (PFHpS)				TRG	Yes	N
21	375-95-1	Perfluorononanoic ac	35.9 ng/L			TRG	Yes	Y
22	376-06-7	Perfluorotetradecanoic acid (PFTA)				TRG	Yes	N
23	377-73-1	Perfluoro-3-methoxy	529 ng/L			TRG	Yes	Y
24	39108-34-8	2 Fluorotelomer su	35.1 ng/L			TRG	Yes	Y
25	39492-88-1	Perfluoro(3,5-dioxah	519 ng/L			TRG	Yes	Y
26	39492-89-1	Perfluoro(3,5,7-triox	150 ng/L			TRG	Yes	Y
27	39492-90-1	Perfluoro(3,5,7,9-tetraoxadecanoic acid (PFO4DA)				TRG	Yes	N



# NC DEQ EDD

An Excel spreadsheet with 30+ tabs that are generally organized into sections. The EDD is based on what other successful programs around the country have done.

Section	Tab
Initial	DataProvider_v1
	Subfacility_v1
	Location_v1
	Files_v1

Section	Tab
Field Activities	Task_v1
	WaterLevel_v1
	ExtractionInjectionWells_v1
	SoilGas_v1
	FieldSample_v1
	COC_v1
	FieldResults_v1

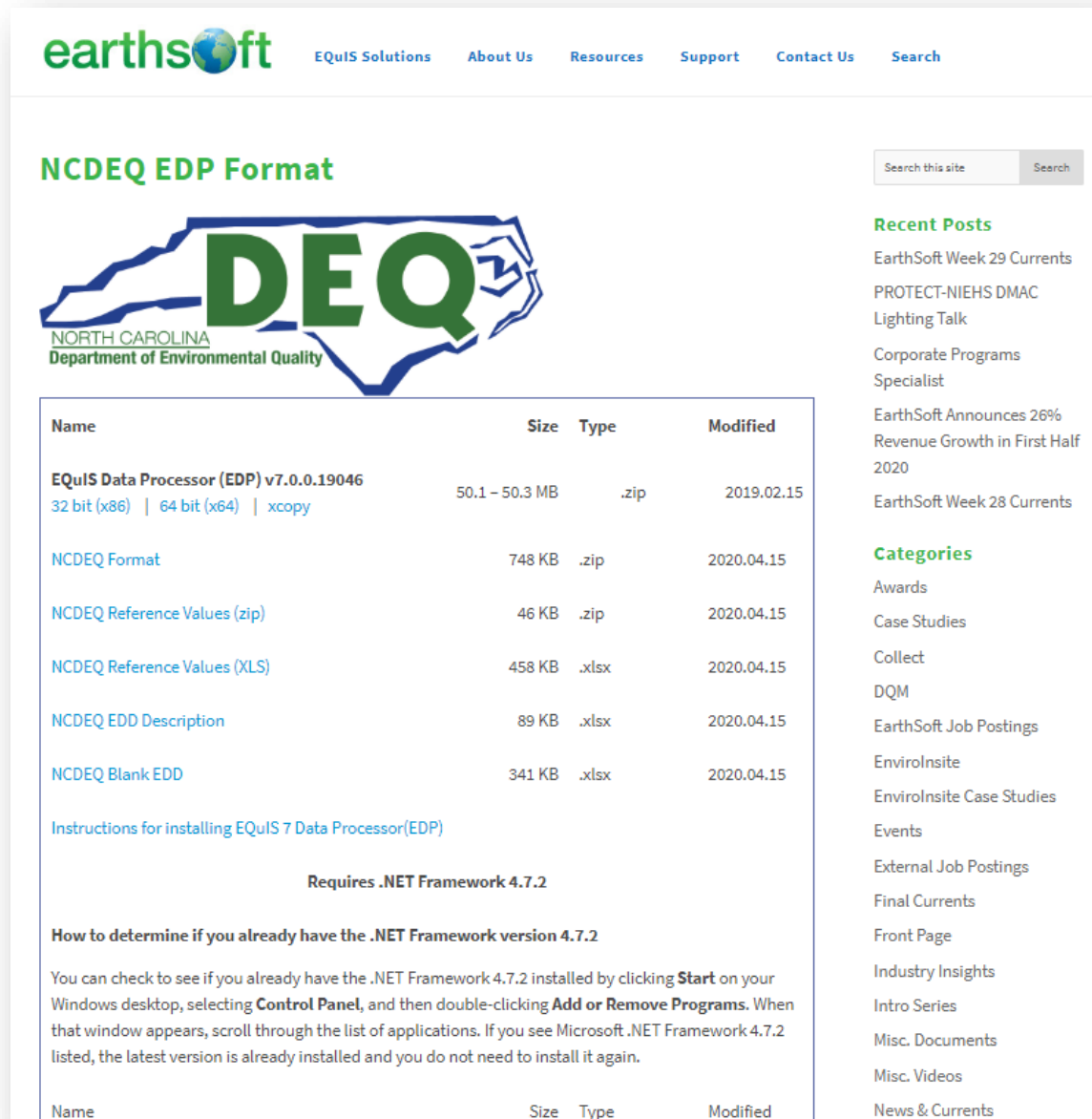
Section	Tab
Chemistry	Sample_v1
	TestResultQC_v1
	Batch_v1

Section	Tab
Vapor Intrusion	VI_Bldg_Address_v1
	VI_Building_Inspection_v1
	VI_Building_Parameters_v1
	VI_Locations_v1
	VI_Outdoor_Locations_v1
	VI_Samples_v1
	VI_TestResultsQC_v1
	VI_Batches_v1

Section	Tab
Subsurface Investigation	DrillActivity_v1
	DownholePoint_v1
	Lithology_v1
	Well_v1
	WellConstruction_v1
	GeologySamples_v1
WaterTable_v1	

Section	Tab
Basic Historical	BasicLocations_v1
	BasicWater_Level_v1
	BasicChemistry_v1
	BasicGeology_v1

# EQulS on the web



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## NCDEQ EDP Format

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- Misc. Videos
- News & Currents

Name	Size	Type	Modified
<a href="#">EQulS Data Processor (EDP) v7.0.0.19046</a> 32 bit (x86)   64 bit (x64)   xcopy	50.1 – 50.3 MB	.zip	2019.02.15
<a href="#">NCDEQ Format</a>	748 KB	.zip	2020.04.15
<a href="#">NCDEQ Reference Values (zip)</a>	46 KB	.zip	2020.04.15
<a href="#">NCDEQ Reference Values (XLS)</a>	458 KB	.xlsx	2020.04.15
<a href="#">NCDEQ EDD Description</a>	89 KB	.xlsx	2020.04.15
<a href="#">NCDEQ Blank EDD</a>	341 KB	.xlsx	2020.04.15
<a href="#">Instructions for installing EQulS 7 Data Processor(EDP)</a>			

**Requires .NET Framework 4.7.2**

**How to determine if you already have the .NET Framework version 4.7.2**

You can check to see if you already have the .NET Framework 4.7.2 installed by clicking **Start** on your Windows desktop, selecting **Control Panel**, and then double-clicking **Add or Remove Programs**. When that window appears, scroll through the list of applications. If you see Microsoft .NET Framework 4.7.2 listed, the latest version is already installed and you do not need to install it again.

Name	Size	Type	Modified
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## NC DEQ EQulS Format and Resources

<https://earthsoft.com/products/edp/ncdeq-edp-format/>

- FREE to use! Format requires registration.
- Place where updated reference values, formats, and blank EDD appear.

## Installation and Registration Guidance

[https://download.earthsoft.com/NCDEQ/Instructions%20for%20Installing%20EQulS7%20Data%20Processor%20\(EDP\)%20Standalone.pdf](https://download.earthsoft.com/NCDEQ/Instructions%20for%20Installing%20EQulS7%20Data%20Processor%20(EDP)%20Standalone.pdf)

## Troubleshooting when downloads do not work

[https://help.earthsoft.com/unblock\\_a\\_downloaded\\_file.htm?zoom\\_highlightsub=unblocked](https://help.earthsoft.com/unblock_a_downloaded_file.htm?zoom_highlightsub=unblocked)



# Recent Numbers

November 2023	DWM	Chemours
Facilities	336	1
Sample locations	5,804	20,321
Normal environmental samples collected	15,162	28,624
Tests run on normal environmental samples collected	63,281	55,489
Results from normal environmental samples collected	863,126	1,046,041
Averages	17 locations/facility 2 samples/location 4 tests/sample 13 results/test	20,321 locations/facility 1 samples/location 2 tests/sample 19 results/test



# Important note

Use of the NCDEQ EDD is intended to augment and allow for the systematic capture of environmental sampling/monitoring data.

It is not intended to replace any reports or narratives that currently accompany this data.

Data providers should consult with their NC DEQ Project Manager (PM) prior to preparing and submitting EDDs to verify what data will be submitted for their project.

The NCDEQ EDD is built to be comprehensive in the data that can be collected, but it does not mean that providing all this data is required. Communication with the PM can help to avoid unnecessary efforts.

It is the responsibility of the data provider to coordinate with the NC DEQ to ensure that the data collected are submitted under the correct Facility/Site ID.

Please verify the Facility/Site ID number information with your PM.





# Next steps

1. Visit

Go to the NCDEQ page on the EarthSoft website to download the free files that you will need to get started. <https://earthsoft.com/products/edp/ncdeq-edp-format/>

2. Communicate

Talk with your Brownfields Project Manager, talk with your sampling team, talk with the lab, talk with your consultants.

3. Reach out

If you have questions, contact me. I am available through email or we can schedule an online meeting.



# Contact Info

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