

Florida Department of Environmental Protection (FDEP)
Division of Waste Management
ADaPT FAQ
(As of 1/9/2015)

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What is ADaPT?

ADaPT is a Microsoft Access application used by the Division of Waste Management (DWM) that measures the integrity and quality of electronic data deliverables (EDDs) relative to project requirements. It processes two types of EDDs defined by FDEP. These include the Laboratory Data Deliverable (LDD) and the Field Data Deliverable (FDD). The LDD format is consistent and is required for all FDEP ADaPT data submittals. The FDD format may vary for each DWM program area. ADaPT performs an error check on EDDs and a technical consistency check among related results reported in the LDD, and also performs an automated data review of the LDD. When an FDD is required, ADaPT performs a consistency check between the LDD and FDD before preparing the data for export (save to disk).

What is an EDD?

An electronic data deliverable (EDD) is based on elements needed for data validation and assessment. These EDDs include the Laboratory Data Deliverable (LDD) and the Field Data Deliverable (FDD). The LDD contains sample result information and also includes all associated quality control. The FDD contains sample collection information contained in the field sampling log and associated FDEP Oracle Database Project (facility) Monitoring Site Inventory.

What is automated data review?

Automated data review is the assessment of the data within the FDEP ADaPT EDD to measure the quality of all analytical results. ADaPT compares all lab quality control accuracy and precision information reported in the EDD against the criteria established in a project library. The Division of Waste Management (DWM) will evaluate all data using the DWM Master Library. ADaPT also considers holding times and blank contamination. If problems (outliers) exist, ADaPT will qualify associated sample results depending on the magnitude of the outlier.

What benefits does ADaPT offer to labs, consultants and permittees?

ADaPT measures the completeness and integrity of an EDD relative to project requirements. It makes sure that laboratory analytical results and associated information, such as method and analyte names reported in an EDD, adhere to a set of standards defined by a particular project or agency. ADaPT also measures the quality (automated data review) of analytical results by assessing associated quality control information and other parameters reported in the EDD. ADaPT provides a consistent measure of quality in an expedited manner.

Is ADaPT compatible with LIMS systems?

ADaPT requires a comma delimited text or Excel.csv file in a specified format using a set of standards as defined by FDEP. Standard values for method and analytes compiled for ADaPT rely on nationally recognized methods, chemical abstract numbers, and analytical names. Every laboratory identifies methods and analytes differently; therefore, every LIMS will require some transcribing.

Do I need a LIMS to use ADaPT?

No: a LIMS is not necessary to use ADaPT, but a LIMS expedites the creation of EDDs.

What are ADaPT Project Libraries and how do I use them?

Project Libraries function as the reference for assessing lab EDDs, both in error checking and automated data review. Each lab must set up their own lab specific ADaPT library which contains all requirements for method and analyte name standard values, reporting limits, analytes to be reported for each method and matrix, and accuracy and precision limits for spikes and surrogates for a particular project. First, evaluate your data with a lab specific library, then evaluate the data using the DWM Master Library before submitting any data to FDEP. DWM staff will use the DWM Master Library to evaluate all EDDs. The requirements for ADaPT EDDs related to DWM reporting are defined in the ADaPT project library for each program. The ADaPT project library serves as the electronic quality assurance (QA) plan and indicates what quality control (QC) elements are required by FDEP. To view the DWM QA Plan click, [Waste Program Quality Assurance Plan, August 2009](#).

How do ADaPT standard values work with ADaPT Libraries?

Project libraries hold values for methods, analyte names, and the unique analyte identifier (the Client Analyte ID). These values must exist as standard values for these items in the ADaPT standard values lists (SVL) before they can be entered into a project library. FDEP controls the standard values for method, analyte name, and ClientAnalyteID. These SVLs will be required to meet FDEP's goal to standardize nomenclature.

How are CAS, NELAC, and FDEP identification numbers assigned in ADaPT?

ADaPT uses unique identifiers called the Client Analyte ID to recognize analytes. A particular analyte may have more than one name, but it has only one Client Analyte ID. The Chemical Abstract System (CAS) number is normally used as the Client Analyte ID. If a CAS number does not exist for a particular analyte (e.g. Kjeldahl nitrogen), a NELAC code is used. If a NELAC code doesn't exist, then a unique Florida identifier is assigned to that analyte. Only FDEP can assign a Client Analyte ID. These values remain fixed as Client Analyte ID standard values within ADaPT. Laboratories must report analytes in an EDD with the unique Client Analyte ID assigned to that analyte.

How are ADaPT Libraries created?

The DWM Master Library is managed by the FDEP and is available for download on the [DWM ADaPT page](#). Project specific libraries (based on the DWM Master library) are created by the data user prior to project initiation.

Why can't I modify ADaPT Libraries and some standard values?

FDEP decided to control standard values for methods, matrix, and analytes. Therefore, ADaPT does not allow addition, modification, or deletion of these standard values and libraries. One of the purposes of ADaPT is to ensure standardization of information reported in EDDs.

How can I request a method or analyte be added to the standard value lists (SVLs)?

Changes and additions to the SVLs must be requested through the DWM. Please refer to our [DWM Library Additions](#) and [DWM Library History](#) documents for details on this process. Most program appropriate methods and analytes already exist in the ADaPT SVLs DWM Master Library. Please check to be sure you have the current Master Library before making a request to FDEP. Once a method or analyte has been added to the SVL, laboratory staff and/or project managers may then use that value from the Master Library to create new method/analyte

combinations in a project specific library. To make a request, please contact clark.b.moore@dep.state.fl.us.

What Methods are appropriate for the DWM Library?

For the DWM, any method listed in 40 CFR Part 136 or SW-846 will be considered appropriate. In order to add other methods, we must determine that the project comes under the jurisdiction of the DWM and that the analytes reported are justified by Rule, consent order, or permit. The lab reporting the data must be certified by the Florida Department of Health for that method, matrix, and analyte(s). Please refer to our [DWM Library Additions document](#) for further details on this process.

How exact does the time of analysis need to be?

The time of analysis, along with the time of collection in the field, are needed to assess holding times for each sample. The automated data review compares this information to holding time requirements in the project library, which are based on EPA and FDEP standards. The more exact the time, the better ADaPT can evaluate holding times, for example, automated methods should stamp the exact time of analysis. Manual methods can have the exact time written by the analyst or the end time of the analytical run as the time of analysis for all samples. If a specific sample will expire during the run (start at 1 PM and go to 3 PM with one sample expiring at 3 PM), then one should put the exact time of analysis for that sample or it will be flagged as out of holding time.

ADaPT EDD processing errors

If an ADaPT error is encountered during LDD/FDD import or Error Check, running the Regulatory Comparison Report, during Data Review, or exporting to WACS, the problem is most likely due to an incomplete or improperly formatted LDD or FDD. ADaPT LDD and FDD specifications must be followed for the data to process correctly. If you need help, please go to the [DWM ADaPT web page](#) for the appropriate program area contact information.

Where can I get additional information on ADaPT?

Additional information on ADaPT can be obtained from the [ADaPT User Guide](#) and other references posted on the [DWM ADaPT web page](#), or by e-mailing clark.b.moore@dep.state.fl.us.

How do I update ADaPT?

Preferred Update Method: Download the “Update_FL_ADaPT_8_4.exe” file appropriate to your operating system by clicking and saving to your local hard drive:

[ftp://ftp.dep.state.fl.us/pub/WACS-ADaPT/Update_ADaPT_Consultant_8_1_\(Windows_32_bit\).exe](ftp://ftp.dep.state.fl.us/pub/WACS-ADaPT/Update_ADaPT_Consultant_8_1_(Windows_32_bit).exe)

[ftp://ftp.dep.state.fl.us/pub/WACS-ADaPT/Update_ADaPT_Consultant_8_1_\(Windows_64_bit\).exe](ftp://ftp.dep.state.fl.us/pub/WACS-ADaPT/Update_ADaPT_Consultant_8_1_(Windows_64_bit).exe)

Navigate to the appropriate file and double click on it to execute. This program will update the ADaPTModules.accde and ADaPTTables.accdb files and overwrite the existing files. If you have any project libraries, LDD (including error logs), and/or FDD, export these files prior to updating ADaPT or this information will be lost.

With this update, you will have the most recent:

- ADaPT Valid Values
- DWM Library
- Testsite Inventory
- WACS Valid Values
- Field EDD and other queries

Alternate Update Method: To keep ADaPT current, updates are needed for the following:

- The [WACS Testsite Inventory](#) – Open ADaPT 8.1 and click ‘Go to WACS/Validator Menu’. A pop-up box appears asking if you want to update the Testsite Inventory. Click OK.
- The [DWM Library](#) – Save this library to your local hard drive and then unzip it. Open ADaPT, click Go o WACS/Validator Menu, click on Library Utilities, click on Import Library, click on Import Project Library, and navigate to the unzipped library folder and choose the first file to import (LibDWM_Library_YYYYMMDD01.txt). All nine text library files will import.
- The [DWM Valid Values](#) – Save the most current [ADaPT Valid Values](#) file to your local hard drive. Open ADaPT, click Go to WACS/Validator Menu, click on Library Utilities, click on Import Library, click on the Import Valid Values radio button, click on Import ADaPT WACS Valid Values, then navigate to and click on the DWM_Valid_Values.fvv file.

Receive Max Locks Error Message after import of large Lab EDD

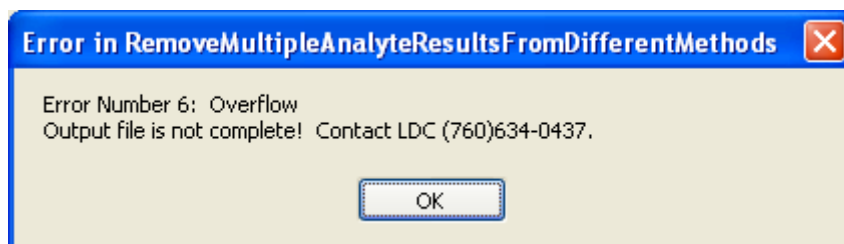


This Error is caused by an environment variable MaxLocksPerFile in the windows registry, the value of which by default is set low and causes problems while importing large files. You can download the [max_locks.pdf](#) file which contains instructions on how to manually increase the value of the MaxLocsPerFile environment variable in your registry. Alternately, you can save the [MaxLocksPerFile_value_increase.reg](#) file to your local hard drive and run by double clicking on it.

Note: Always back up your Windows Registry before making any changes.

Received Error #6 Overflow during export to WACS process

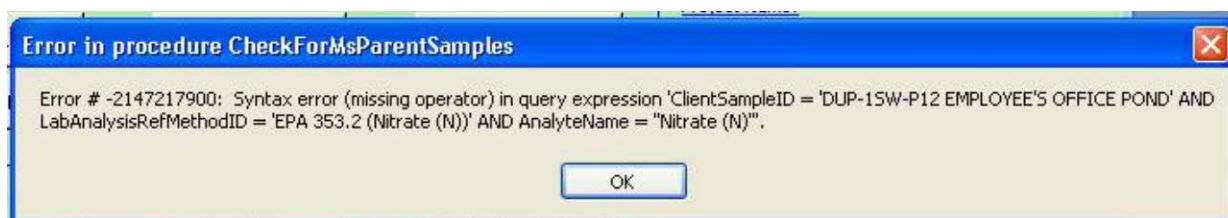
You may receive this error especially if you have been exporting many larger ADaPT EDDs.



From the WACS/Validator (Green) Screen, quit ADaPT by clicking on the Quit ADaPT icon at the bottom right and simply restart ADaPT. This process will clear out some MS Access tables and automatically run Compact and Repair on the database. You can resume by re-running the Export to WACS.

Receive Syntax Error, improper use of delimiter characters

Improper use of Delimiter characters in the LDD (and FDD) may result in a similar Error Message.



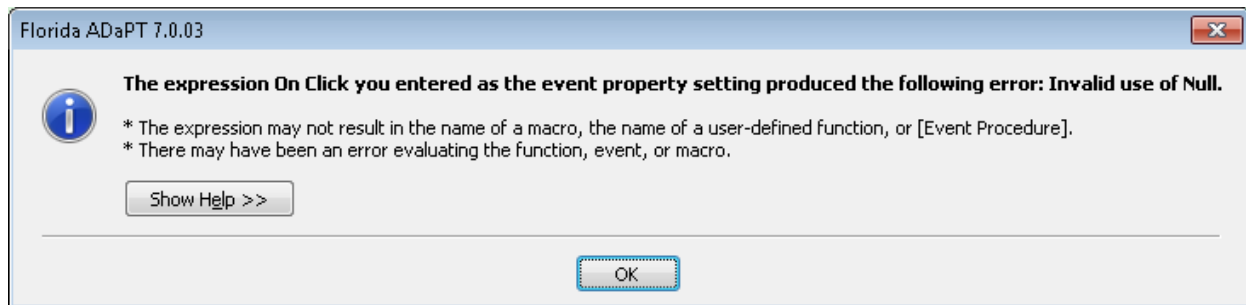
Please follow the business rule prohibiting delimiter characters except in the Analyte Name field. These include the following characters: comma, 'at' symbol, number sign, double quote, and single quote characters (, @ # ' ").

Missing RegLevelSource in ADaPT Regulatory Comparison Report

This occurs when the two tables, tblWacsRegLimitsSource and tblWacsRegLimitsValues in the ADaPTModules.mdb, have lost their connections to the same named tables in the ADaPTTables.mdb. To fix this problem, start ADaPT and use the Linked Table Manager to re-link these two tables found in the C:\Program Files\FL_ADaPT_6_4\ADaPTTables.mdb file.

Received the following error: The expression On Click you entered as the event property setting produced the following error: Invalid Use of Null

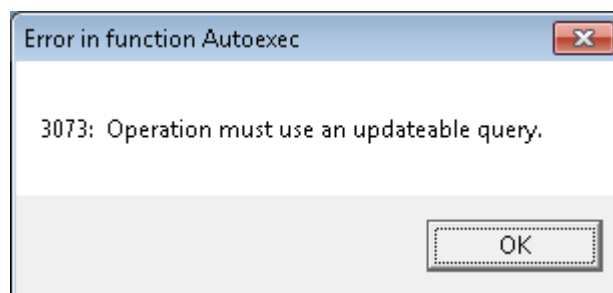
While using the Regulatory Comparison Report after matching up samples with Criteria or Standards and clicking Continue, you receive the following Error Message:



This error is most likely caused by attempting to compare a null result against a specific Standard or Criteria (numeric value). Occasionally, null results can be reported as long as the “O” qualifier “Sampled, but analysis lost or not performed.” is also reported.

Received Error 3073 after starting ADaPT

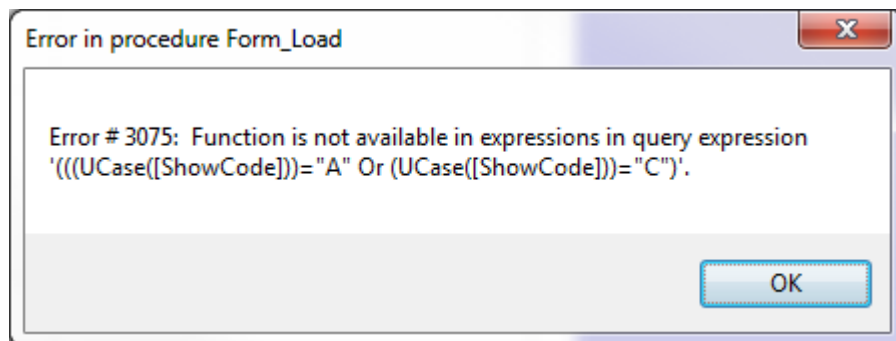
After starting up ADaPT, the following Error message appears:



This Error occurs under the Windows 7 and 8.1 operating systems. A user with administrator privileges must change the file folder properties. Please refer to the [ADaPT Installation Instructions](#) for details.

Received Error 3075 during ADaPT operations

Received Error 3075 after importing a lab EDD, running the Lab EDD Error Check, or during other ADaPT operations.



To fix this issue, please refer to the instructions in the following document:
[ComparisonReportFix_09_13_13.pdf](#)

Error when running the Regulatory Comparison Report with ADaPT version 8.0.03

While running the Regulatory Comparison Report with ADaPT version 8.0.03:

Regulatory Comparison Reports

Select sample(s) and regulatory limits you want to assess against each sample, then click the Add button to relate them with each other. Select the report sort option you want then click continue.

Sample ID	Matrix
A301231-03	W
A301349-01	W
BMW-3	W
BMW-3	W
DMW-1	W
DMW-1	W
DMW-2	W
EQUIPMENT BLANK	W
TRIP BLANK 1	W

Add Remove Clear

Criteria	Me
GW standards + Groundwater guidance criteria: 1994 document	W
Drinking Water - Primary + Secondary MCLs: 62-550, F.A.C. (01/05/2005)	W
RCRA - TCLP Violation Limits: 40CFR261.24 rev. (07/01/1999)	W
Groundwater - CTLs: 62-777, F.A.C. (04/17/2005)	W
Surfacewater, Fresh - CTLs: 62-777, F.A.C. (04/17/2005)	W
Surfacewater, Marine - CTLs: 62-777, F.A.C. (04/17/2005)	W
Groundwater of Low Yield/Poor Quality - CTLs: 62-777, F.A.C. (04/17/2005)	W
Direct Exposure - Residential - SCTLs: 62-777, F.A.C. (04/17/2005)	S
Direct Exposure - Industrial - SCTLs: 62-777, F.A.C. (04/17/2005)	S

Report Sorting

☒ Sample ID ☐ Monitoring Site ☐ Sample ID
☐ Date & Sample ID ☐ Date & Sample ID

Continue Cancel

When you click Add, you receive the following Error Message:

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The expression On Click you entered as the event property setting produced the following error: Object or class does not support the set of events.

* The expression may not result in the name of a macro, the name of a user-defined function, or [Event Procedure].
* There may have been an error evaluating the function, event, or macro.

Show Help >>

OK

Click OK and then try to click Cancel from the “Regulatory Comparison Reports” dialogue box and receive the repeated Error Message. To fix this issue, please refer to the instructions in the following document: [ComparisonReportFix_09_13_13.pdf](#)

How should the EDDs be named when submitted to FDEP?

If you are using ADaPT 8.1.01, and the ProjectNumber and ProjectName recognized, ADaPT will properly auto-name all exported files as defined by the FDEP program area.

Submit all lab data (with the exception of radiochemistry results) in a single LDD with a single corresponding FDD.

Note: The ShippingbatchId is not required for the LDD, but when the LDD and FDD information is combined when running the Regulatory Comparison Reports or during data export to WACS (save to disk), the shipping batch ID information is currently required only in the FDD.

Can I submit more than one Lab EDD per sampling event?

It is important to submit all lab data (with the exception of radiochemistry results) in a single LDD with a single corresponding FDD for the following reasons:

1. ADaPT performs a number of Technical Consistency checks, and having all the analytical results in one file assures the most comprehensive data check for the following: Nutrients and Total vs. Dissolved, charge Balance, Major Ions vs. Conductivity, TDS vs. Conductivity, and Analyzed vs. Calculated TDS.
2. It is difficult when checking for the completeness of data submitted (permit required monitoring wells, surface water and leachate for specific lists of analytes and field measured parameters) when data is included in multiple LDDs.
3. Having only one ADaPT EDD data set is more efficient and eliminates confusion for saving the groundwater monitoring data in OCULUS, tracking and processing of data, and exporting the data to the WACS Oracle Database.

How do I create an ADaPT Field EDD?

There are several methods outlined in the [ADaPT User Guide](#) for creating a field EDD for both PRP (non-WACS) and WACS program areas. Please refer to the appropriate section in this document.

Is soil data to be submitted using ADaPT?

Yes. For the Field EDD, soil samples are reported similarly to groundwater field duplicate samples. Keep in mind that the WACS_Report_Type will be different for PRP. If the results are for TCLP or SPLP, use the TCLP or SPLP Report_Type code in the Field EDD. The WACS Testsite Name in the FDD must exactly match the Client Sample ID in the LDD. If no field Measured Parameters are to be reported for Soil samples; as is the case for Equipment Blank, Field Blank, Trip Blank, and Field Duplicate sample, then the following fields in the FDD must ALL be null.

Field #Description

7. Field_Measurement_Method
8. Field_Parameter_Name
9. Result
10. Result_Units
11. Field_Parameter_Qualifier_Code

How do I report field duplicate data?

In both the LDD and FDD, report field duplicates as follows:

LDD	ClientSampleID	CollectionDate	
FDD	(WACS Testsite Name)	(Date Sampled)	WACS Report Type
	MW-4	01/29/2010 15:45	SEMGW
	MW-4 Dup	01/29/2010 15:46	DUP

The WACS Testsite Name in the FDD must exactly match the Client Sample ID in the LDD.

How do I report re-sampled data?

There are times when you need to re-sample and report data. Report re-sampled data in a similar manner as is shown below.

LDD	ClientSampleID	CollectionDate	
FDD	(WACS Testsite Name)	(Date Sampled)	WACS Report Type
	MW-4	01/29/2010 15:45	SEMGW
	MW-4 resampled	02/02/2010 15:46	RESMP

How can I get new Monitoring Wells added to the WACS Monitoring Testsite Inventory?

For a Solid Waste facility, please contact the Solid Waste Program staff in the appropriate [DEP District Office](#) where the facility is located. For a Hazardous Waste Facility, contact bryan.baker@dep.state.fl.us or Camille.Stein@dep.state.fl.us.

How do I report results for a dry monitoring well?

1. When preparing a groundwater monitoring report that includes the attempted sampling of dry wells, submit the sampling log with a note indicating that the specific monitoring well was dry.
2. Include one record in the FDD for each dry monitoring well for the “Water Level (NGVD)” parameter with an appropriate entry in the “Field_Comment” field of the FDD. A numeric result must be present in order for the comment to upload. We recommend using a value of zero “0”, since the parameter comment is what is important. If we database this result, we know an attempt was made to sample this monitoring well. If this is not included in the FDD, the status of the well will be uncertain when querying WACS.

Holding Times Issues

BOD-5 (Biological Oxygen Demand) by SM18 5210 B: We consider the analysis to start when the BOD bottles are set up, not when the final Dissolved Oxygen (DO) reading is taken. Since there is not an actual prep for this test, the prep and analysis date are the same in our EDD's. The 5 day incubation period is part of the test, not a consideration for holding times.

Chlorophyll A by SM18 10200 H: In the DWM ADaPT library, SM18 10200 H is entered as an organic rather than inorganic method. This is actually a biological method but has been classified as a General Chemistry (Inorganic) method for ADaPT in the past. For Inorganic methods, ADaPT reviews only the Sample-to-Analysis hold time. Now that SM18 10200 H is classified as an Organic Method in ADaPT, it now correctly evaluates the Collection-to-Prep and Prep-to-Analysis holding times.