

## ADaPT Laboratory Data Deliverable (LDD) Requirements

Data Element Name	Data Type	Description	Required	SVL	Error Check
Client_Sample_ID	Text(35)	Client's identifier for a sample. If a sample is analyzed as a duplicate, matrix spike, or matrix spike duplicate, append suffixes "DUP", "MS", and "MSD" respectively. For Lab QC samples such as blanks and LCS enter the LabSampleID in this field.	Yes	No	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 35</li> <li>• Correct naming convention for Lab Duplicates, MS, and MSD samples</li> </ul>
Lab_Analysis_Ref_Method_ID	Text(80)	The laboratory reference method ID. Standard values for methods are specified by Florida DEP and SFWMD.	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 80</li> <li>• SVL Check against project library</li> </ul>
LabID	Text(7)	Identification of the laboratory performing the analysis. Use DOH certification number if possible	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 7</li> <li>• SVL check against ADaPT standard value list</li> </ul>
Client_Analyte_ID	Text(30)	Unique identifier for an analyte name. This is typically the CAS number, NELAC number, or Florida specified ID number	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 30</li> <li>• SVL check against ClientAnalyteIDs entered in the project library</li> <li>• Completeness (in the project target analyte list for the method and matrix or reported as a spike or surrogate for the method and matrix as applicable)</li> </ul>
Analyte_Name	Text(60)	The chemical name for the analyte. Values for Analyte Names are specified by Florida DEP and SFWMD.	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 60</li> <li>• SVL check against Analyte Names entered in the project library for a method and matrix</li> <li>• Spikes reported in EDD for LCS and MS/MSD match project library for method and matrix</li> <li>• For organics, correct surrogates are reported according to the method requirements as established in the project library</li> </ul>
Result	Number(10)	Reported result for the analyte	Yes	No	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 10</li> <li>• Numeric except for microbiologicals, which may be text; and REDOX, which may be negative</li> <li>• Result = MDL if Lab_Qualifiers contains "U"</li> </ul>
Error	Text	The two sigma error for radiochemistry results. Do not enter the "+" or "-" character in this field	Conditional	No	<ul style="list-style-type: none"> <li>• Not null for radiochemistry result, spike, and tracer or carrier records</li> <li>• Numeric</li> <li>• Length &lt; 10</li> </ul>
Result_Units	Text(10)	Units for the result	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 10</li> <li>• SVL check against the units entered in project library for the method, matrix, and analyte</li> </ul>
Lab_Qualifiers	Text(7)	A string of single letter result qualifiers assigned by the laboratory. Always use the "U" qualifier for nondetects. Other qualifiers may apply. Order is insignificant.	Conditional	Yes	<ul style="list-style-type: none"> <li>• Not null according to conditions listed at the end of this table</li> <li>• Length ≤ 7</li> <li>• SVL check against ADaPT standard values for lab qualifiers</li> <li>• Consistency check (see list at end of this table)</li> </ul>
Detection_Limit	Number(10)	Method detection limit for the measure analyte	Yes	No	<ul style="list-style-type: none"> <li>• Not null for target analytes</li> <li>• Length ≤ 10</li> <li>• Numeric</li> <li>• Less than or equal to the Reporting Limit</li> <li>• Not zero or negative</li> </ul>
Analyte_Type	Text(7)	Defines the type of result such as surrogate, spike, or target compound.	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 7</li> <li>• SVL check against the ADaPT standard values for Analyte_Type</li> </ul>
Dilution	Number(10)	Overall dilution of the sample aliquot. A value of one (1) corresponds to nominal method conditions. Insert value of one (1) for method blanks, LCS, and LCSD.	Yes	No	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 10</li> <li>• Numeric</li> </ul>

Percent_Moisture	Number(10)	Percent of sample composed of water. Enter value for soil and sediments sample only.	Conditional	No	<ul style="list-style-type: none"> <li>• Not null if matrix = soil or sediment</li> <li>• Length ≤ 10</li> <li>• Numeric</li> </ul>
Percent_Recovery	Text(5)	Percent recovery value of a spiked or surrogate compound. If sample dilution yields no or very low recovery enter "DIL". If sample matrix interference yields no recovery, enter "INT". If the spike or surrogate was not added to the sample enter "NS"	Conditional	No	<ul style="list-style-type: none"> <li>• Not null if AnalyteType = "SURR", "SPK", or "TRACER"</li> <li>• Length ≤ 5</li> <li>• Numeric or "DIL", "INT", or "NS"</li> </ul>
Relative_Percent_Difference	Number(5)	Relative percent difference between two QC results	Conditional	No	<ul style="list-style-type: none"> <li>• Not null if AnalyteType = "SPK" and QCType = "LCSD" or "MSD"; or Not null if QCType = "DUP"</li> <li>• Length ≤ 5</li> <li>• Numeric</li> </ul>
Reporting_Limit	Text(10)	Practical quantitation limit for the measured analyte. Also used as the reporting limit	Conditional	No	<ul style="list-style-type: none"> <li>• Not null if AnalyteType = "TRG" or "SPK"</li> <li>• Length ≤ 10</li> <li>• Numeric</li> <li>• Not zero or negative</li> </ul>
Project_Number	Text(30)	Number assigned by the client to associate a sample to a project, purchase order, or requisition	Yes	Yes	<ul style="list-style-type: none"> <li>• Length ≤ 30</li> <li>• SVL check against ADaPT standard Values for Project Number if entered</li> </ul>
Project_Name	Text(90)	Project name assigned by the client	Yes	Yes	<ul style="list-style-type: none"> <li>• Length ≤ 90</li> <li>• Check against ADaPT standard values for Project Name if entered</li> </ul>
End_Date_Collected	Date/Time	The date and time of sample collection. Format as: MM/DD/YYYY hh:mm where MM = two digit month, DD = two digit date, YYYY = four digit year, hh = two digit hour, and mm = two digit minutes	Conditional	No	<ul style="list-style-type: none"> <li>• Not null if QCType = "N", "DUP", "MS", or "MSD"</li> <li>• Valid date/time value</li> <li>• Correctly formatted as MM/DD/YYYY hh:mm</li> <li>• Logical (does not supersede sample preparation and/or sample analysis date/time value)</li> </ul>
Matrix_ID	Text(20)	The sample matrix for the reported analyte. The standard values for Matrix_ID are specified by the State of Florida	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 20</li> <li>• SVL check against ADaPT standard values for MatrixID</li> </ul>
QC_Type	Text(7)	Identifies the type of sample (i.e.: method blank, LCS,LCSD, laboratory duplicate, MS, MSD, or normal field sample. For normal field samples enter "N"	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 7</li> <li>• SVL check against ADaPT standard values for QC_Type</li> </ul>
Shipping_Batch_ID	Text(25)	Unique identifier assigned to a cooler or shipping container or, group of coolers or shipping containers that links samples together. The Shipping_Batch_ID is provided by the client on the chain of custody.	Conditional	No	<ul style="list-style-type: none"> <li>• Required if QC_Type = N, DUP, MS, or MSD</li> <li>• Length ≤ 25</li> </ul>
Temperature	Number(10)	Temperature in degrees C of the sample as received by the lab	No	No	<ul style="list-style-type: none"> <li>• Numeric, if reported</li> <li>• Length ≤ 10 if reported</li> </ul>
Preparation_Type	Text(25)	The method used to prepare the sample. For methods that do not have a preparation method as part of the analysis enter "No Prep"	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 25</li> <li>• SVL check against ADaPT standard values for Preparation_Type</li> </ul>
Analysis_Type	Text(10)	Indicates the type of analysis (i.e. dilutions, re-analyses or re-extracts). This field provides distinction among records when multiple analyses are submitted for the same sample and method. Enter RES for the initial analysis.	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 10</li> <li>• SVL check against ADaPT standard values for Analysis_Type</li> </ul>
Reportable_Result	Text(3)	Indication of whether or not the laboratory chooses and individual analyte result as reportable. Enter "YES" if the result is reportable. Enter "NO" if the result not.	Conditional	Yes	<ul style="list-style-type: none"> <li>• Yes • Not null if AnalyteType = "TRG"</li> <li>• Length ≤ 3 if reported</li> <li>• Value = "YES" or "NO"</li> <li>• Duplicate "YES" for a given ClientSampleID, Method, Matrix, ClientAnalyteID, and TotalOrDissolved value</li> </ul>
Date_Prepared	Date/Time	The date and time of sample preparation or extraction. Format as: MM/DD/YYYY hh:mm where MM = twodigit month, DD = two digit date, YYYY = four digit year, hh = two digit hour, and mm = two digit minutes	Yes	No	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Valid date/time value</li> <li>• Correctly formatted as MM/DD/YYYY hh:mm</li> <li>• Logical (Date_Prepared does not precede Date_Collected and supersede Date_Analyzed)</li> </ul>
Date_Analyzed	Date/Time	The date and time of sample analysis. Format as: MM/DD/YYYY hh:mm where MM = two digit month, DD = two digit date, YYYY = four digit year, hh = two digit hour, and mm = two digit minutes	Yes	No	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Valid date/time value</li> <li>• Correctly formatted as MM/DD/YYYY hh:mm</li> <li>• Logical (Date_Analyzed does not precede Date_Collected and Date_Analyzed)</li> </ul>

Total_Or_Dissolved	Text(3)	Indicates if the result is reported on a total or dissolved sample fraction. Report only for aqueous results	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Reported as "TOT" or "DIS" for water matrices and "N/A" for non-water matrices</li> <li>• Length ≤ 3</li> </ul>
Prep_Batch_ID	Text(13)	Unique laboratory identifier for a batch of samples of similar matrix prepared together for analysis by one method and treated as a group for method blank, LCS, and LCSD association. The Prep_Batch-ID links method blanks and laboratory control samples (LCS/LCSD) to associated samples.	Yes	No	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 13</li> <li>• Each distinct Prep_Batch_ID for a method and matrix has records for the same method and matrix where QCType = MB and LCS</li> <li>• Each distinct Prep_Batch_ID for a method and matrix for each MB and LCS contains one or more sample records with the same method, matrix, and Prep_Batch_ID.</li> </ul>
Method_Batch_ID	Text(13)	Unique laboratory identifier for a batch of samples of similar matrix analyzed by one method and treated as a group for laboratory duplicate, matrix spike, and matrix spike duplicate association. The Method_Batch_ID links laboratory duplicates, matrix spikes, and matrix spike duplicates to associated samples.	Yes	No	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 13</li> <li>• For non-metal inorganic methods, each distinct Method_Batch_ID for a method and matrix has records reported where QCType = MS and DUP</li> <li>• For metals each distinct Method_Batch_ID for a method and matrix has records reported where QCType = MS and MSD or QCType = MS and DUP</li> <li>• For organic methods each distinct Method_Batch_ID for a method and matrix has records where QCType = MS and MSD</li> <li>• Each Method_Batch_ID for a method and matrix has sample records with the same method, matrix and Method_Batch_ID.</li> </ul>
Preservation_Intact	Text(3)	Indicates if the sample was preserved properly based on measurement at the time of sample receipt at the laboratory. This applies to each bottle collected	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 3</li> <li>• Reported as "Yes" or "No"</li> <li>• Preservation_Intact = "No" if Lab_Qualifiers contains "Y"</li> </ul>
QC_Spike_Added	Number(5)	Value of spike or surrogate compound entered as a numeric character	Conditional	No	<ul style="list-style-type: none"> <li>• Length ≤ 5 if reported</li> <li>• Required for SFWMD</li> </ul>
Result_Comments	Text(255)	Free-form text where data provider relates information they consider relevant to the sample that is not included in the above fields	Conditional	No	<ul style="list-style-type: none"> <li>• Not null for certain constraints</li> <li>• Length ≤ 255</li> </ul>
Lab_Reporting_Batch_ID	Text(13)	Laboratory identifier for a group of samples and laboratory QC all reported within one EDD or batch. The Lab_Reporting_Batch_ID is equivalent to the sample delivery group, lab work number, login ID, etc.	Yes	No	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 13</li> <li>• The same value is reported in all records within the EDD</li> </ul>

## ADaPT Laboratory Receipt Deliverable Requirements

Data Element Name	Data Type	Description	Required	SVL	Error Check
LocationCode	Text(80)	Location where the sample was taken	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null for SFWMD</li> <li>• Length ≤ 80</li> <li>• SVL check against ADaPT standard values</li> </ul>
ProjectNumber	Text(30)	Number assigned by the client to associate a sample to a project, purchase order, or requisition.	Yes	Yes	<ul style="list-style-type: none"> <li>• Length ≤ 30</li> <li>• SVL check against ADaPT standard Values for Project Number if entered</li> </ul>
LabID	Text(7)	Identification of the laboratory performing the analysis. Use FDOH certification number if possible.	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 7</li> <li>• SVL check against ADaPT standard values</li> </ul>
ClientSampleID	Text(35)	Client's identifier for a sample.	Yes	No	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 35</li> <li>• One distinct ClientSampleID for a given LabSampleID</li> </ul>
End_Date_Collected	Date/Time	The date and time of sample collection. Format as: MM/DD/YYYY hh:mm where MM = two digit month, DD = two digit date, YYYY = four digit year, hh = two digit hour, and mm = two digit minutes	Conditional	No	<ul style="list-style-type: none"> <li>• Not null if QCType = "N", "DUP", "MS", or "MSD"</li> <li>• Valid date/time value</li> <li>• Correctly formatted as MM/DD/YYYY hh:mm</li> <li>• Logical (does not supersede Sample Receipt Date)</li> </ul>
SamplingPersons	Text(40)	Person involved in sampling.	Yes	No	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 40</li> </ul>
Collection_Agency	Text(20)	Agency conducting the sampling.	Conditional	Yes	<ul style="list-style-type: none"> <li>• Not null for SFWMD</li> <li>• Length ≤ 20</li> <li>• SVL check against ADaPT standard values</li> </ul>
Lab_Reciept_Date	Date/Time	The date and time of sample collection. Format as: MM/DD/YYYY hh:mm where MM = two digit month, DD = two digit date, YYYY = four digit year, hh = two digit hour, and mm = two digit minutes	Conditional	No	<ul style="list-style-type: none"> <li>• Not null if QCType = "N", "DUP", "MS", or "MSD"</li> <li>• Valid date/time value</li> <li>• Correctly formatted as MM/DD/YYYY hh:mm</li> <li>• Logical (does not precede End_Collection Date)</li> </ul>
Matrix_ID	Text(20)	The sample matrix for the reported analyte. The standard values for Matrix_ID are specified by the State of Florida	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 20</li> <li>• SVL check against ADaPT standard values</li> </ul>
Lab_Sample_ID	Text(50)	Lab tracking number for field samples and lab QC samples.	Yes	No	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 50</li> <li>• One distinct LabSampleID for a given ClientSampleID</li> </ul>
Lab_Analysis_Ref_Method_ID	Text(80)	The laboratory reference method ID. These should be specified by Florida DEP and entered into the project specific library	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 10</li> <li>• SVL check against ADaPT standard values</li> </ul>
PreservationIntact	Text(3)	Indicates if the sample was preserved properly based on measurement at the time of sample receipt at the laboratory. This applies to each bottle collected.	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 3</li> <li>• Reported as "Yes" or "No"</li> </ul>
Custody_Intact_Seal	Text(3)	Indication of whether the sample custody seal was intact if custody seals were used. Enter "NO" only for those containers with seals that have been broken, and "YES" for containers with intact seals or no seals used.	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 3</li> <li>• Reported as "Yes" or "No"</li> </ul>
Receipt_Comments	Text(255)	Information related to the samples received by the lab that is not captured in other fields.	Conditional	No	<ul style="list-style-type: none"> <li>• Not null if Preservation_Intact or Custody_Intact_Seal = "No"</li> <li>• Length ≤ 255</li> </ul>
Shipping_Batch_ID	Text(25)	Unique identifier assigned to a cooler or shipping container or, group of coolers or shipping containers that links samples together. The Shipping_Batch_ID is provided by the client on the chain of custody.	Conditional	No	<ul style="list-style-type: none"> <li>• Required if QC_Type = N, DUP, MS, or MSD</li> <li>• Length ≤ 25</li> </ul>
Lab_Reporting_Batch	Text(13)	Laboratory identifier for a group of samples and laboratory QC all reported within one EDD or batch. The Lab_Reporting_Batch_ID is equivalent to the sample delivery group, lab work number, login ID, etc.	Yes	No	<ul style="list-style-type: none"> <li>• Not null</li> <li>• Length ≤ 13</li> <li>• The same value is reported in all records within the EDD</li> </ul>
Program_Type	Text(20)	Type of program, e.g., monitoring	Yes	Yes	<ul style="list-style-type: none"> <li>• Not null</li> <li>• SVL (either MON or EXP)</li> </ul>
Sampling_Method	Text(80)	As per Header Sheet	Yes	No	<ul style="list-style-type: none"> <li>• Not null</li> </ul>
Sampling_Depth	Text(15)	Sample Collection Depth	Yes	No	<ul style="list-style-type: none"> <li>• Double ≤ 15</li> </ul>

## ADaPT Field Data Deliverable (FDD) Requirements

Data Element Name	Required	Error Check
WACS_Testsite_ID	Conditional	• Null for Blanks or if no WACS ID available
WACS_Testsite_Name	Conditional	• WACS Testsite ID or • Equipment/Field/Trip Blank or duplicate
WACS_Facility_ID	Yes	• WACS or EPA Facility ID if available
WACS_Facility_Name	Conditional	• WACS or EPA Facility Name if available
Collection Method (Sample_Type_Code)	Yes	• See Sample Collection Methods Table below
Matrix_ID	Yes	• "S" for soil or "W" for aqueous samples
Field_Measurement_Method	Yes	• See Field Parameter Methods Table below
Field_Parameter_Name	Yes	• See Field Parameter Methods Table below
Result	Yes	• Result for field parameter
Result_Units	Yes	• See Field Parameter Methods Table below
Field_Parameter_Qualifier_Code	Conditional	• See Field Parameter Qualifier Codes Table below
Field_Comments	Conditional	• Information about the specific sample for which no specific field has been designated
Sampling_Personnel	Yes	Person collecting sample
Collection_Agency	Yes	Agency/Organization collecting sample
Date_Sampled	Yes	MM/DD/YYYY hh:mm
Shipping_Batch_ID	Yes	• Unique identifier for a shipping container (or set of containers) that link samples together – on the COC
Well_Purged_Flag	Conditional	• Well purged 3 to 5 volumes? • "Y", "N", or null if non-MW
WACS_Report_Type	Yes	• See Report Type Table below

### Field Parameter Options

ClientAnalytelD	Parameter Name	Units	Matrix	DEP-SOP	Method
2030	Temperature, water	Deg C	W	FT1400	SM2550 B, FDEP FT1400
1880	Dissolved Oxygen	mg/L	W	FT1500	SM4500 O(A-G), FDEP FT1500
1900	pH	S.U.	W	FT1100	SM4500 H+, EPA 9040, FDEP FT1100
FL-PHYS-007	Oxidation Reduction Potential	mV	W		SM2580 B
2055	Turbidity	NTU	W	FT1600	EPA 180.1, SM2130 B, FDEP FT1600
EPA E1647296	Water Level (NGVD)	FT	W	DEP-SOP	DEP-SOP
1610	Specific Conductance	umhos/cm	W	FT1200	EPA 120.1, SM2510 B, FDEP FT1200

### Field\_Parameter\_Qualifier\_Code

Tags	Definition
D	Measurement was made in the field (i.e., in situ). This applies to any value (except pH, specific conductance, dissolved oxygen, temperature, total residual chlorine, transparency, or salinity) that was obtained under field conditions using approved analytical methods
E	Indicates extra samples were taken at composite stations.
R	Significant rain in the past 48 hours. (Significant rain typically involves rain in excess of ½ inch within the past 48 hours.) This code will be used when the rainfall might contribute to a lower than normal value.
!	Data deviate from historically established concentration ranges.

### Sampling Collection Type

Code	Description
A	24-Hour Composite (surface water)
B	12-Hour Composite (surface water)
BA	Bailer
BP	Bladder Pump
C	8-Hour Composite (surface water)
CP	Centrifugal Pump
D	6-Hour Composite (surface water)
E	Grab
F	16-Hour Composite (surface water)
M	Meter Reading
PP	Peristaltic Pump
SP	Submersible or in-situ dedicated pump
Z	Unknown

### WACS Report Type

Code	Description
ANNDS	Annual Old Dump Sites, 62-522.600
ANNLC	Annual Leachate: 62-701.510(8)(C)&(D)
ASHLC	Ash Leachate: 62-702.570(3)
ASSMT	Assessment Monitoring
CDSSW	Semiannual C&D surface water
CONF	Confirmation Sampling: 62-701.510(7)
DSSSW	Semiannual Dumpsite Surface Water
DUP	Field Duplicate Sample
INICD	Initial C&D GW : 701.730(4)(B)5
INTGW	Initial GW: 62-701.510(8)(A)&(D)
LFSSW	Semiannual LF Surface Water:62-701.510(8)(B)
QTRGW	Quarterly ground water monitoring
RENC	Renewal C&D GW: 62-701.730(4)(B)5
RENT	Renewal Soil Treatment 62-713.400(3)(E)
RERUN	Re-Analyzed Sample
RESMP	Resampled
SEMCD	Semiannual C&D GW: 62-701.730(4)(B)4
SEMD	Semiannual OLD DUMP SITES, 62-522.600
SEMGW	Semiannual GW: 62-701.510(8)(A)
SEMLC	Semiannual Leachate
SEMST	Semiannual Soil Treatment 62-713.400(3)(C)
SEMSW	Semiannual Surface Water: 62-701.510(8)(B)