Appendix A: Summary of Data Elements

Field Name	In Table(s)	Attrb	Null Allowed	VVL	Descr. Name	Definition	Guidelines & Restrictions
ANADATE	TEST RESULTS	D8			Analysis Date	The date the sample (aliquot, extract, digest and/or leachate) is analyzed.	Must be in the format YYYYMMDD. Must be later than or equal to *EXTDATE*, *RECDATE*, *LOGDATE*, and earlier than or equal to *REP_DATE*.
ANMCODE	TEST RESULTS QC CL	C7		x	Analytical Method	The code identifying the method of analysis.	Must contain a valid value.
APPRVD	TEST	C3	x		Approved By	The initials of the individual approving the laboratory report.	No entry for laboratory-generated QC and non-client samples.
BASIS	TEST	C1		x	Basis	The code used to distinguish whether a sample is reported as dry or wet weight, filtered or not filtered.	Must contain a valid value. Valid values for soil samples are "W" or "D" or leachate codes; for water samples "F," "L," or "N."
CLCODE	CL	C6		x	Control Limit Type	The code identifying the type of quality control limit.	Must contain a valid value.
CLREVDATE	RESULTS CL	D8	x		Control Limit Revision Date	The date a control limit is established.	Must be in the format YYYYMMDD. No entry when *QCCODE* is "CS," "NC," "LB," or "RS," and non-spiked parameters (except when *PARVQ* is "SU" or "IN").
CNTSHNUM	SAMPLE	C12			Control Sheet Number	The administratively-assigned identification used to track contracts.	Entry of "NA" is acceptable.

Field Name	In Table(s)	Attrb	Null Allowed	VVL	Descr. Name	Definition	Guidelines & Restrictions
COC_MATRIX	SAMPLE	C2	x	x	COC Matrix	The code identifying the sample matrix as noted on the chain-of-custody (e.g., water, soil, etc.).	Optional. This field provides a link with the COC EDD from EDMS2000. It represents the sample matrix as identified by the field organization, and must contain a valid value.
COCNUM	SAMPLE	C16	x		Chain-of-Custody Number	The number assigned to the chain-of-custody.	No entry for laboratory-generated QC and non-client samples.
DILFAC	RESULTS	N10			Dilution Factor	The numeric factor indicating the level of sample dilution.	Must be greater than zero. (Formerly in the format N10,3 in EDF 1.2a.)
DQO_ID	SAMPLE	C25	x		Data Quality Objectives ID	The unique identifier representing the data quality objectives.	Optional. This field provides a link with the COC EDD from EDMS2000.
EXLABLOT	TEST	C10	x		OBSOLETE	OBSOLETE	OBSOLETE
EXMCODE	TEST RESULTS CL	C7		x	Preparation Method	The code identifying the method of preparation.	Must contain a valid value. If no preparation performed enter "NONE;" if preparation method is included in analysis method enter "METHOD."
EXPECTED	QC	N14	x		Expected Parameter Value	The target result for a quality control sample or surrogate spike.	No entry when *QCCODE* is "CS," "NC," "LB," or "RS." For matrix spikes, this value is the amount spiked plus the reference sample *PARVAL*. Enter "100" when *UNITS* are "PERCENT." (Formerly in the format N14,4 in EDF 1.2a.)
EXTDATE	TEST RESULTS	D8			Preparation Date	The date that a sample is prepared for analysis.	Must be in the format YYYYMMDD. If no preparation performed, enter *ANADATE*.
LAB_METH_GRP	TEST RESULTS QC CL	C25	x		Lab Method Group	The unique identifier for a group of methods as defined by the laboratory.	Optional. This field provides a link with the EDMS2000.

Field Name	In Table(s)	Attrb	Null Allowed	VVL	Descr. Name	Definition	Guidelines & Restrictions
LAB_REPNO	TEST	C20	x		Laboratory Report Number	The unique identifier for the laboratory report, assigned by the laboratory.	No entry for laboratory-generated QC and non-client samples.
LABCODE	SAMPLE TEST RESULTS QC CL	C4		x	Laboratory	The code identifying the laboratory that analyzes the sample.	This field represents the laboratory that received the sample and is responsible for producing the electronic deliverable, and must contain a valid value.
LABDL	RESULTS	N9			Method Detection Limit	The laboratory-established method detection limit.	Enter zero when *UNITS* is "PERCENT" or *PARVQ* is "TI." Must be adjusted for dilution. Must be greater than or equal to zero. (Formerly in the format N9,4 in EDF 1.2a.)
LABLOTCTL	TEST QC	C10			Preparation Batch Number	The unique identifier for a preparation and handling batch.	Must uniquely define a group of samples prepared together.
LABQCID	QC	C12			Laboratory QC Sample ID	The unique identification number assigned to the sample by the laboratory.	This is equivalent to the *LABSAMPID*.
LABREFID	QC	C12	x		Laboratory Reference ID	The laboratory sample ID of the quality control reference sample.	This is the *LABSAMPID* of the reference sample. No entry unless *QCCODE* is "MS/SD" or "LR."
LABSAMPID	TEST RESULTS	C12			Laboratory Sample ID	The unique identification number assigned to the sample by the laboratory.	Must be unique.
LOCID	SAMPLE TEST	C10	x		Location ID	The unique identifier for the sample's location, as identified by the laboratory.	No entry for laboratory-generated QC and non-client samples.
LOGCODE	SAMPLE TEST	C4	x	x	Field Organization	The code identifying the company collecting the samples or performing field tests.	Must contain a valid value. No entry for laboratory-generated QC and non-client samples.

Field Name	In Table(s)	Attrb	Null Allowed	VVL	Descr. Name	Definition	Guidelines & Restrictions
LOGDATE	SAMPLE TEST	D8	x		Collection Date	The date a field sample is collected.	Must be in the format YYYYMMDD. No entry for laboratory-generated QC and non-client samples. Must be earlier than *RECDATE*, *EXTDATE*, *ANADATE*, and *REP_DATE*.
LOGTIME	SAMPLE TEST	C4	x		Collection Time	The time that a field sample is collected, recorded using 24-hour military time.	Must be a valid time between 0000 and 2359. No entry for laboratory-generated QC and non-client samples.
LOWERCL	CL	N4			Lower Control Limit	The lower control limit of a quality control criterion.	Must be an integer greater than or equal to zero and less than *UPPERCL*. Enter zero for precision limit.
MATRIX	SAMPLE TEST RESULTS QC CL	C2		x	Matrix	The code identifying the sample matrix as determined by the laboratory (e.g., water, soil, etc.).	This field represents the sample matrix as identified by the laboratory, and must contain a valid value.
METH_DESIGN_ID	SAMPLE TEST RESULTS QC CL	C25	x		Method Design ID	The unique identifier for the design of an analytical method.	Optional. This field provides a link with the COC EDD from EDMS2000.
MODPARLIST	TEST	L1			Modified Parameter List	A field indicating whether the parameter list of an analytical method has been modified.	Must enter "T" (true) or "F" (false) if a parameter from the method parameter list is not reported. The parameter list is not considered modified if extra parameters are reported.
NPDLWO	SAMPLE	C7			NPDL Work Order Number	A delivery order number associated with the contract.	Entry of "NA" is acceptable.
PARLABEL	RESULTS QC CL	C12		x	Parameter	The code or CAS number identifying the analyte (parameter).	Must contain a valid value.

Field Name	In Table(s)	Attrb	Null Allowed	VVL	Descr. Name	Definition	Guidelines & Restrictions
PARUN	RESULTS	N12	x		Parameter Uncertainty	The uncertainty of a measured value due to a measuring technique (expressed as plus or minus some value).	No entry necessary for non-radiochemical results. If entered, must be greater than or equal to zero. (Formerly in the format N12,4 in EDF 1.2a.)
PARVAL	RESULTS	N14			Parameter Value	The analytical value for a compound, analyte, or physical parameter.	(Formerly in the format N14,4 in EDF 1.2a.)
PARVQ	RESULTS	C2		x	Parameter Value Qualifier	The code identifying the qualifier of an analytical result (e.g., greater than, equal to, etc.).	Must contain a valid value.
PRESCODE	TEST	C15	x	x	Preservative	The code identifying the type of preservative added to the sample.	Must contain a valid value. Multiple codes may be entered, separated by commas (no spaces between values).
PROJNAME	SAMPLE	C25	x		Project Name	The identification assigned to the project by the organization performing the work.	No entry for laboratory-generated QC and non-client samples.
PVCCODE	RESULTS	C2		x	Primary Value Type	The code identifying whether a sample result is a primary or a confirmatory value.	Must contain a valid value. There may be only one "PR" result per *LABSAMPID*, *ANMCODE*, *EXMCODE*, and *PARLABEL*.
QCCODE	TEST RESULTS QC	C3		x	QC Type	The code identifying the type of sample (e.g., laboratory-generated, environmental, etc.).	Must contain a valid value.
RECDATE	TEST	D8			Received Date	The date the sample is received by the laboratory doing the analysis.	Must be in the format YYYYMMDD. For laboratory-generated QC samples enter date sample was created (e.g., *EXTDATE*).
REP_DATE	TEST	D8	x		Report Date	The date of the laboratory report.	Must be in the format YYYYMMDD. No entry for laboratory-generated QC and non-client samples.

Field Name	In Table(s)	Attrb	Null Allowed	VVL	Descr. Name	Definition	Guidelines & Restrictions
REPDL	RESULTS	N9			Reporting Detection Limit	The laboratory-established method detection limit, adjusted for the particular sample preparation (e.g., weight, volume, or dilution).	Enter zero when *UNITS* is "PERCENT" or *PARVQ* is "TI." Must be adjusted for dilution. Must be greater than or equal to zero. (Formerly in the format N9,4 in EDF 1.2a.)
REPDLVQ	RESULTS	C3		x	Reporting Detection Limit Qualifier	The code identifying the type of reporting limit (e.g., practical quantitation limit, instrument detection limit, etc.).	Must contain a valid value. Enter "NA" when *UNITS* is "PERCENT" or *PARVQ* is "TI."
REQ_METHOD_GRP	SAMPLE	C25	x		Requested Method Group	The unique identifier for the method or group of methods requested by the client for analysis of the sample.	Optional. This field provides a link with the COC EDD from EDMS2000.
RLNOTE	RESULTS	C20	x	x	Laboratory Result Notes	The code identifying notes pertaining to analytical performance irregularities that apply to a single analyte.	Must contain a valid value. Multiple codes may be entered, separated by commas (no spaces between values).
RT	RESULTS	N7	x		Retention Time	The retention time of a tentatively identified compound (TIC), reported in minutes (min).	No entry necessary except when *PARVQ* is "TI." If entered must be greater than or equal to zero. (Formerly in the format N7,2 in EDF 1.2a.)
RUN_NUMBER	TEST RESULTS	N2			Run Number	The numeric code distinguishing multiple or repeat analysis of a sample by the same method on the same day.	Must be an integer greater than or equal to 1.
SAMPID	SAMPLE TEST	C25	x		COC Sample ID	The unique identifier representing a sample, assigned by the consultant, as submitted to the laboratory on a chain-of-custody.	This field represents the sample ID as it appears on the COC. No entry for laboratory-generated QC and non-client samples.

Field Name	In Table(s)	Attrb	Null Allowed	VVL	Descr. Name	Definition	Guidelines & Restrictions
SRM	RESULTS	C12		x	Standard Reference Material	The code identifying the standard reference material used in the analysis.	Must contain a valid value. Enter "NA" if no reference material.
SUB	TEST	C4		x	Subcontracted Laboratory	The code identifying the subcontracted laboratory.	Must contain a valid value. Enter "NA" if no analyses are subcontracted.
TLNOTE	TEST	C20	x	x	Laboratory Test Notes	The code identifying notes pertaining to analytical performance irregularities that apply to the entire test.	Must contain a valid value. Multiple codes may be entered, separated by commas (no spaces between values).
UNITS	RESULTS QC	C10		x	Units of Measure	The units for the parameter value measurement.	Must contain a valid value.
UPPERCL	CL	N4			Upper Control Limit	The upper control limit of a quality control criterion.	Must be an integer greater than or equal to one and greater than *LOWERCL*.