Chapter 1
LABORATORY REPORTING

ACRONYMS

ASCII	American Standard Code (for) Information Interchange
CAS	Chemical Abstract Service
CL	Control Limit
COC	Chain-of-Custody
COELT	U.S. Army Corps of Engineers Loading Tool
CSV	Comma Separated Values (AKA Comma/Quote Delimited)
EDCC	Electronic Deliverable Consistency Checker
EDD	Electronic Data Deliverable
EDF	The Electronic Deliverable Format™
FK	Foreign Key
LIMS	Laboratory Information Management System
NA	Not Applicable
NC	Non-Client
ND	Non-Detected
PK	Primary Key
QA	Quality Assurance
QC	Quality Control
RPD	Relative Percent Difference
VVL	Valid Value List

Chapter 1 LABORATORY ELECTRONIC REPORTING

1. EDF – Electronic Deliverable Format

ID	Element *(FIELD NAME)*	Criteria	Length	Type	Definition
3000	Global ID *(GLOBAL_ID)*		12	AN	The unique identifier for a regulated facility or site.
3001	Field Point Name *(FIELD_PT_NAME)*		15	AN	The unique name of the field location where the sample/field measurement has been collected.
3002	Field Point Class *(FIELD_PT_CLASS)*	Valid Values	5	AN	The code representing the type of field/survey point.
3003	Analysis Date *(ANADATE)*	YYYYMMDD	8	D	The date the sample (aliquot, extract, digest and/or leachate) is analyzed.
3004	Analytical Method *(ANMCODE)*	Valid Values	7	AN	The code identifying the method of analysis.
3005	Approved By *(APPRVD)*		3	AN	The initials of the individual approving the entire laboratory report, or a single analysis.
3006	Basis *(BASIS)*	Valid Values	1	AN	The code used to distinguish whether a sample is reported as dry or wet weight, filtered or not filtered.
3007	Control Limit Type *(CLCODE)*	Valid Values	6	AN	The code identifying the type of quality control limit.
3008	Cleanup Method *(CLEANUP)*	Valid Values	15	AN	The code identifying the method of cleanup performed.
3009	Control Limit Revision Date *(CLREVDATE)*		8	D	The date a control limit is established.
3010	Chain-of-Custody Matrix *(COC_MATRIX)*	Valid Values	2	AN	The code identifying the sample matrix as noted on the chain-of-custody (e.g., water, soil, etc.).
3011	Chain-of-Custody Number *(COCNUM)*		16	AN	The number assigned to the chain-of-custody.
3012	Cooler ID *(COOLER_ID)*		25	AN	The unique identifier representing a cooler used to transport samples from t he field to the lab.
3013	Dilution Factor *(DILFAC)*		10	N	The numeric factor indicating the level of sample dilution.
3014	Data Quality Objectives ID *(DQO_ID)*		25	AN	The unique identifier representing the data quality objectives.
3015	Preparation Method *(EXMCODE)*	Valid Values	7	AN	The code identifying the method of preparation.
3016	Expected Parameter Value *(EXPECTED)*		14	N	The target result for a quality control sample or surrogate spike.
3017	Preparation Date *(EXTDATE)*	YYYYMMDD	8	D	The date that a sample is prepared for analysis.
3018	Lab Method Group *(LAB_METH_GRP)*		25	AN	The unique identifier for a group of methods as defined by the laboratory.
3019	Laboratory Report Number *(LAB_REPNO)*		20	AN	The unique identifier for the laboratory report, assigned by the laboratory.
3020	Laboratory *(LABCODE)*	Valid Values	4	AN	The code identifying the laboratory that receives the sample.
3021	Method Detection Limit *(LABDL)*		9	N	The laboratory-established method detection limit (MDL) as determined using procedures outlined in 40 CFR, Part 136, Appendix B (or by equivalent statistical means), and adjusted for dilution.

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ID	Element *(FIELD NAME)*	Criteria	Length	Type	Definition
3022	Preparation Batch Number *(LABLOTCTL)*		25	AN	The unique identifier for a preparation and handling batch that groups the client samples with the QC samples with which they were prepared.
3023	Laboratory QC Sample ID *(LABQCID)*		25	AN	The unique identification number assigned to a quality control sample by the laboratory.
3024	Laboratory Reference ID *(LABREFID)*		25	AN	The laboratory sample ID of the quality control reference sample.
3025	Laboratory Sample ID *(LABSAMPID)*		25	AN	The unique identification number assigned to the sample by the laboratory.
3026	Work Order Number *(LABWO)*		7	AN	A delivery order number associated with the contract.
3027	Leach Method *(LCHMETH)*	Valid Values	10	AN	The code identifying the method of leaching.
3028	Laboratory Notes *(LNOTE)*	Valid Values	20	AN	The code identifying notes pertaining to analytical performance irregularities that apply to the entire test.
3029	Field Organization *(LOGCODE)*	Valid Values	4	AN	The code identifying the company collecting the samples or performing field tests.
3030	Collection Date *(LOGDATE)*	YYYYMMDD	8	D	The date a field sample is collected.
3031	Collection Time *(LOGTIME)*	HHMM	4	AN	The time that a field sample is collected, recorded using 24-hour military time.
3032	Lower Control Limit *(LOWERCL)*		4	N	The lower control limit of a quality control criterion.
3033	Laboratory Matrix *(MATRIX)*	Valid Values	2	AN	The code identifying the sample matrix as determined by the laboratory (e.g., water, soil, etc.); the matrix of the reported result.
3034	Method Design ID *(METH_DESIGN_ID)*		25	AN	The unique identifier for the design of an analytical method.
3035	Modified Parameter List *(MODPARLIST)*		1	L	A field indicating whether the parameter list of an analytical method has been modified.
3036	Parameter *(PARLABEL)*	Valid Values	12	AN	The code or CAS number identifying the analyte (parameter).
3037	Parameter Uncertainty *(PARUN)*		12	N	The uncertainty of a measured value due to a measuring technique (expressed as plus or minus some value).
3038	Parameter Value *(PARVAL)*		14	N14	The analytical value for a compound, analyte, or physical parameter.
3039	Parameter Value Qualifier *(PARVQ)*	Valid Values	2	AN	The code identifying the qualifier of an analytical result (e.g., greater than, equal to, etc.).
3040	Preservative *(PRESCODE)*	Valid Values	15	AN	The code identifying the type of preservative added to the sample.
3041	Procedure Name *(PROCEDURE_NAME)*		240	AN	The method title for an analysis or group of analyses as defined by the analysis laboratory.
3042	Project Name *(PROJNAME)*		25	AN	The identification assigned to the project by the organization performing the work.
3043	Primary Value Type *(PVCCODE)*	Valid Values	2	AN	The code identifying whether a sample result is a primary or a confirmatory value.

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ID	Element *(FIELD NAME)*	Criteria	Length	Type	Definition
3044	QC Type *(QCCODE)*	Valid Values	3	AN	The code identifying the type of sample (e.g., laboratory-generated, environmental, etc.).
3045	Received Date *(RECDATE)*	YYYYMMDD	8	D	The date the sample is received by the laboratory doing the analysis.
3046	Report Date *(REP_DATE)*	YYYYMMDD	8	D	The date of the laboratory report.
3047	Reporting Limit *(REPDL)*		9	N	The laboratory-established reporting limit, as defined by REPDLVQ, adjusted for the particular sample preparation (e.g., weight, volume, or dilution).
3048	Reporting Limit Qualifier *(REPDLVQ)*	Valid Values	3	AN	The code identifying the type of reporting limit entered into REPDL (e.g., practical quantitation limit, instrument detection limit, etc.).
3049	Requested Method Group *(REQ_METHOD_GRP)*		25	AN	The unique identifier for the method or group of methods requested by the client for analysis of the sample.
3050	Results Free Field 1 *(RES_FF_1)*		25	AN	Results free-entry field 1.
3051	Results Free Field 2 *(RES_FF_2)*		25	AN	Results free-entry field 2.
3052	Results Free Field 3 *(RES_FF_3)*		25	AN	Results free-entry field 3.
3053	Results Free Field 4 *(RES_FF_4)*		25	AN	Results free-entry field 4.
3054	Results Free Field 5 *(RES_FF_5)*		25	AN	Results free-entry field 5.
3055	Laboratory Result Notes *(RLNOTE)*	Valid Values	20	AN	The code identifying notes pertaining to analytical performance irregularities that apply to a single analyte.
3056	Retention Time *(RT)*		7	N	The retention time of a tentatively identified compound (TIC), reported in minutes (min).
3057	Run Number *(RUN_NUMBER)*		2	N	The numeric code distinguishing multiple or repeat analysis of a sample by the same method on the same day.
3058	Chain-of-Custody Sample ID *(SAMPID)*		25	AN	The unique identifier representing a sample, assigned by the consultant, as submitted to the laboratory on a chain-of-custody.
3059	Standard Reference Material *(SRM)*	Valid Values	12	AN	The code identifying the standard reference material used in the analysis.
3060	Subcontracted Laboratory *(SUB)*	Valid Values	4	AN	The code identifying the subcontracted laboratory.
3061	Laboratory Test Notes *(TLNOTE)*	Valid Values	20	AN	The code identifying notes pertaining to analytical performance irregularities that apply to the entire test.
3062	Units of Measure *(UNITS)*	Valid Values	10	AN	The units for the parameter value measurement.
3063	Upper Control Limit *(UPPERCL)*		4	N	The upper control limit of a quality control criterion.
3064	User Administrative ID *(USER_ADMIN_ID)*		25	AN	A user-defined administrative field.

Chapter 2
WELL AND SITE INFORMATION ELECTRONIC REPORTING Data Dictionaries

Chapter 2 WELL AND SITE INFORMATION ELECTRONIC REPORTING

1. GEO XY – Location Measurement

ID	Element (*FIELD NAME*)	Criteria	Length	Type	Definition
3000	Global ID *(GLOBAL_ID)*	Valid Values	12	AN	The unique identifier for a regulated facility or site.
3001	Field Point Name *(FIELD_PT_NAME)*	Valid Values	15	AN	The unique name of the field location where the sample/field measurement has been collected.
3002	Field Point Class *(FIELD_PT_CLASS)*	Valid Values	5	AN	The code representing the type of field/survey point.
3200	XY Survey Date *(XY_SURVEY_DATE)*	MM/DD/YYYY	10	D	The date on which the latitude & longitude coordinates were measured.
3201	Latitude *(LATITUDE)*		15	N	The latitude (Y coordinate) of the survey point, measured in decimal degrees, and reported to 7 decimal points.
3202	Longitude *(LONGITUDE)*		15	N	The longitude (X coordinate) of the survey point, measured in decimal degrees, and reported to 7 decimal points.
3203	XY Survey Method *(XY_METHOD)*	Valid Values	5	AN	The code representing the survey method by which the latitude/longitude measurements were collected.
3204	XY Datum *(XY_DATUM)*	Valid Values	5	AN	The code representing the datum from which the latitude/longitude coordinates were determined.
3205	XY Accuracy Value *(XY_ACC_VAL)*		15	N	The accuracy range (+/-) of the latitude and longitude reported in centimeters at a 95% confidence interval.
3206	XY Survey Organization Name *(XY_SURVEY_ORG)*		35	AN	The name of the organization who collected the latitude/longitude coordinates.
3207	GPS Survey Equipment *(GPS_EQUIP_TYPE)*	Valid Values	100	AN	The name of the GPS unit used to determine the latitude/longitude coordinates.
3208	XY Survey Description *(XY_SURVEY_DESC)*	Narrative	240	AN	General description/information pertaining to the survey of latitude/longitude. May describe offset azimuth, distance and slope.

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2. GEO Z – Elevation Measurement

ID	Element *(Field Name)*	Criteria	Length	Type	Definition
3000	Global ID *(GLOBAL_ID)*	Valid Values	12	AN	The unique identifier for a regulated facility or site.
3001	Field Point Name *(FIELD_PT_NAME)*	Valid Values	15	AN	The unique name of the field location where the sample/field measurement has been collected.
3300	Elevation Survey Date *(ELEV_SURVEY_DATE)*	MM/DD/YYYY	10	D	The date on which the elevation was measured.
3301	Elevation *(ELEVATION)*		15	N	The elevation of the survey point measured to top of well casing to one hundredth of a foot between well locations within the site.
3302	Elevation Survey Method *(ELEV_METHOD)*	Valid Values	5	AN	The code representing the method by which the elevation measurement was collected.
3303	Elevation Datum *(ELEV_DATUM)*	Valid Values	5	AN	The code representing the datum from which the elevation was determined.
3304	Elevation Accuracy Value *(ELEV_ACC_VAL)*		15	N	The accuracy range (+/-) of the absolute elevation measurement reported in centimeters at the 95% confidence interval.
3305	Elevation Survey Organization Name *(ELEV_SURVEY_ORG)*		35	AN	The name of the organization collecting the elevation measurement.
3306	Riser Height *(RISER_HT)*		15	N	The measured distance from ground surface to top of well casing reported as a positive or negative value to one hundredth of a foot.
3307	Elevation Survey Description *(ELEV_DESC)*	Narrative	240	AN	General description/information pertaining to the survey.

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3. GEO_WELL – Groundwater Well Measurement

ID	Element *(FIELD NAME)*	Criteria	Length	Type	Definition
3000	Global ID *(GLOBAL_ID)*	Valid Values	12	AN	The unique identifier for a regulated facility or site.
3001	Field Point Name *(FIELD_PT_NAME)*	Valid Values	15	AN	The unique name of the field location where the sample/field measurement has been collected.
3400	Well Current Status *(STATUS)*	Valid Values	5	AN	The code representing the current status of well.
3401	GW Measurement Date *(GW_MEAS_DATE)*	MM/DD/YYYY	10	D	The date the depth to groundwater was measured.
3402	GW Measurement Time *(GW_MEAS_TIME)*	HHMM	4	AN	The time the depth to groundwater was measured, recorded using 24-hour military time.
3403	Depth to Floating Product *(DTFPROD)*		15	N	The measured depth from top of well casing to floating product surface reported to one hundredth of a foot.
3404	Depth to Groundwater Surface *(DTW)*		15	N	The measured depth from top of well casing to groundwater surface reported to one hundredth of a foot.
3306	Riser Height *(RISER_HT)*		15	N	The measured distance from ground surface to top of well casing reported as a positive or negative value to one hundredth of a foot.
3405	Total Depth *(TOT_DEPTH)*		15	N	Depth to bottom of well measured in the field during the sampling/ measurement event from top of well casing to "bottom" of well, reported to one hundredth of a foot.
3406	DTW Description *(GW_MEAS_DESC)*	Narrative	240	AN	General description/information pertaining to the groundwater measurement.