

Data Input Formats for the Re-engineered Air Quality Subsystem

This document provides the format to process batch transactions for the Air Quality Subsystem. The first field of all input formats is the transaction type, which indicates the type of data in the record. (The valid transaction types are listed below.) The second field is the Action Indicator, which indicates the requested database manipulation action. The valid Action Indicators are: “I” for insert, “U” for update, and “D” for delete.

All transactions are pipe delimited (“|”). A delimiter does not need to follow the final field in a record, so there will always be one less delimiter than fields for the given transaction type. It is not essential that the proper number of delimiters be provided for a given transaction. So if you need to only update one column on the database with “Monitor Basic” information, you can ignore empty field delimiters in that row. If you need to report a given field as null, place two delimiters back to back (“||”). Text fields should not be enclosed with single or double quotation marks.

Other Notation: R - Field is required for any action
R(n) - Field is Required for action ‘n’ (R(I) means required for an Insert Action for example)
X(n) - Conditionally Required for action ‘n’

Site Information.....	2
AA Basic Site Information	2
AB Site Street Information.....	3
AC Site Open Path Information	3
Monitor Information.....	4
MA Basic Monitor Information	4
MB Monitor Sampling Periods.....	4
MC Monitor Type Information.....	4
MD Monitor Agency Role	5
ME Monitoring Objective Information	5
MF Monitor Sampling Schedule	5
MG Monitor Tangent Roads	6
MH Monitor Obstruction Information	6
MI Monitor Regulatory Compliance	6
MJ Monitor Collocation Period	6
MK Monitor Protocol.....	7
Reported Data Values.....	8
RC Composite Raw Data	8
RD Hourly, Daily, and Sub Hourly Raw Data.....	8
RA Accuracy Data	9
RP Precision Data.....	9
RS Annual Summary Data	10
RB Blanks Data.....	11

Please Note

The “Formatting Rules” described on the following pages are a “quick reference” and are not intended to illustrate the complete validation procedures that a particular piece of data will be subject to.

The [AQS Data Coding Manual](#) explains business rules and errors in detail.

The [AQS Data Dictionary](#) fully describes the formatting requirements and data dependencies.

Data Input Formats

Site Information**AA Basic Site Information**Field NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RLatitude^{X(I)}Longitude^{X(I)}UTM Zone^{X(I)}UTM Easting^{X(I)}UTM Northing^{X(I)}Horizontal Collection Method^{R(I)}Horizontal Datum^{R(I)}Source Scale^{R(I)}Horizontal Accuracy^{R(I)}Vertical Measure^{R(I)}

Time Zone

Agency Code^{R(I)}Street Address^{R(I)}City Code^{R(I)}Urban Area Code^{R(I)}AQCR^{R(I)}Land Use Type^{R(I)}Location Setting^{R(I)}Date Site Established^{R(I)}

Date Site Terminated

Zip Code

Congressional District

Block

Block Group

Census Tract

Class I Area

Local Region

Local Site Name

HQ Evaluation Date

EPA Region Evaluation Date

Direction from Central Business District to Site

Distance from Central Business District to Site

Meteorological Site Type

Meteorological Site ID

Distance to Meteorological Site

Direction to Meteorological Site

Local Site ID

Vertical Collection Method^{R(I)}Vertical Datum^{R(I)}Vertical Accuracy^{R(I)}Formatting Rule

AA = Basic Site Info.

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table if Action Indicator is 'U' or 'D'

Number - 10.6 signed

Number - 11.6 signed

Number - 2.0 format

Number - 8.2 format

Number - 8.2 format

Must exist in LDP_COLLECTION_METHODS Reference Table

Must exist in LDP_HORIZONTAL_DATA Reference Table

Number - 12.0 format

Number - 8.2 format

Number - 8.2 format

Must exist in TIME_ZONES Reference Table, if supplied

Must exist in STATE_AGENCIES Reference Table

Text

Must exist in CITIES Reference Table

Must exist in URBANIZED_AREAS Reference Table

Must exist in AQCRS Reference Table

Must exist in LAND_USE_TYPES Reference Table

Must exist in LOCATION_SETTINGS Reference Table

Date - YYYYMMDD format

Date - YYYYMMDD format

Must exist in ZIP_CODES Reference Table, if supplied

Must exist in CONGRESSIONAL_DISTRICTS Reference Table, if supplied

Must exist in BLOCKS Reference Table, if supplied

Must exist in BLOCKS Reference Table, if supplied

Must exist in BLOCKS Reference Table, if supplied

Must exist in CLASS_ONE_AREAS Reference Table, if supplied

Must exist in LOCAL_REGIONS Reference Table, if supplied

Text

Date - YYYYMMDD format

Date - YYYYMMDD format

Must exist in COMPASS_SECTORS Reference Table

Number - 8.2 format

Must exist in MET_SITE_TYPES Reference Table, if supplied

Must exist in Reference Table, if supplied

Number - 8.2 format

Must exist in COMPASS_SECTORS Reference Table, if supplied

Text

Must exist in LDP_VERTICAL_METHODS Reference Table

Must exist in LDP_VERTICAL_DATA Reference Table

Number

Data Input Formats

AB Site Street InformationField NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RTangent Street Number^RStreet Name^{R(I)}Road Type^{R(I)}Traffic Count^{R(I)}Year of Traffic Count^{R(I)}Direction from Site to Street^{R(I)}

Source of Traffic Count

Formatting Rule

AB = Site Tangent Street Data

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Number - 2.0 format

Text

Must exist in ROAD_TYPES Reference Table

Number - 12.0 format

Date - YYYY format

Must exist in COMPASS_SECTORS Reference Table

Must exist in TRAFFIC_VOLUME_SOURCES Reference Table, if supplied

AC Site Open Path InformationField NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^ROpen Path Number^RDirection from Receiver to Transmitter^{R(I)}Beam Length^{R(I)}Height of Transmitter^{R(I)}Height of Receiver^{R(I)}Minimum Beam Height^{R(I)}Maximum Beam Height^{R(I)}Land Use Under Path^{R(I)}Formatting Rule

AC = Site Open Path Data

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Number - 2.0 format

Must exist in COMPASS_SECTORS Reference Table

Number - 8.2 format

Number - 8.2 format

Number - 8.2 format

Number - 8.2 format

Number - 8.2 format

Must exist in LAND_USE_TYPES Reference Table

Monitor Information**MA Basic Monitor Information**Field NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RParameter^RPOC^R

Project Class

Dominant Source

Measurement Scale

Open Path Number

Probe Location Code

Probe Height

Probe Horizontal Distance

Probe Vertical Distance

Surrogate Indicator

Unrestricted Air Flow Indicator

Sample Residence Time

Worst Site Type

Applicable NAAQS Indicator

Spatial Average Indicator

Schedule Exemption Indicator

Community Monitoring Zone

Pollutant Area Code – 1

Pollutant Area Code – 2

Pollutant Area Code – 3

Pollutant Area Code – 4

Pollutant Area Code – 5

Close Date

Formatting Rule

MA = Basic Monitor Information

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Must exist in PARAMETERS Reference Table

Must exist in MONITOR table if Action Indicator is 'U' or 'D'

Must exist in PROJECT_TYPES Reference Table, if supplied

Must exist in DOMINANT_SOURCES Ref. Table, if supplied

Must exist in MEASUREMENT_SCALES Ref. Table, if supplied

Must exist in Site Open Path Table, if supplied

Must exist in PROBE_LOCATIONS Reference Table, if supplied

Number - 8.2 format

Number - 8.2 format

Number - 8.2 format

'Y' or 'N'

'Y' or 'N'

Number - 8.2 format

Must exist in WORST_SITE_TYPES Reference Table, if supplied

'S', 'A', or 'B', if supplied

'Y' or 'N', if supplied

'Y' or 'N', if supplied

Number – 4.0 format

Must exist in POLLUTANT_AREAS Ref. Table, if supplied

Must exist in POLLUTANT_AREAS Ref. Table, if supplied

Must exist in POLLUTANT_AREAS Ref. Table, if supplied

Must exist in POLLUTANT_AREAS Ref. Table, if supplied

Must exist in POLLUTANT_AREAS Ref. Table, if supplied

Date - YYYYMMDD

MB Monitor Sampling PeriodsField NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RParameter^RPOC^RDate Sampling Began^R

Date Sampling Ended

Formatting Rule

MB = Monitor Sampling Period

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Must exist in PARAMETERS Reference Table

Must exist in MONITORS table with Parameter

Date - YYYYMMDD

Date - YYYYMMDD

MC Monitor Type InformationField NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RParameter^RPOC^RMonitor Type^RMonitor Type Begin Date^R

Monitor Type End Date

Formatting Rule

MC = Monitor Type Assignment

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Must exist in PARAMETERS Reference Table

Must exist in MONITORS table with Parameter

Must exist in MONITOR_TYPES Reference Table

Date - YYYYMMDD

Date - YYYYMMDD

Data Input Formats

MD Monitor Agency RoleField NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RParameter^RPOC^RAgency Role Name^{R(I)}Agency Code^RAgency Role Begin Date^{R(I)}

Agency Role End Date

Formatting Rule

(MD = Monitor Agency Role)

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Must exist in PARAMETERS Reference Table

Must exist in MONITORS table with Parameter

Must exist in AGENCY_ROLES Reference Table

Must exist in STATE_AGENCIES Reference Table

Date - YYYYMMDD

Date - YYYYMMDD

ME Monitoring Objective InformationField NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RParameter^RPOC^RMonitor Objective Type^RUrban Area Represented^{X(I)}MSA Represented^{X(I)}CMSA Represented^{X(I)}Formatting Rule

ME = Monitor Objective

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Must exist in PARAMETERS Reference Table

Must exist in MONITORS table with Parameter

Must exist in MONITOR_OBJECTIVE_TYPES Reference Table

Must exist in URBANIZED_AREAS Reference Table, if supplied

Must exist in MSAS Reference Table, if supplied

Must exist in CMSAS Reference Table, if supplied

MF Monitor Sampling ScheduleField NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RParameter^RPOC^RRequired Collection Frequency Code^RRequired Collection Frequency Begin Date^R

Required Collection Frequency End Date

Monthly Required Collection Frequency – Jan. Number – 12.0 format, if supplied

Monthly Required Collection Frequency – Feb. Number – 12.0 format, if supplied

Monthly Required Collection Frequency – Mar. Number – 12.0 format, if supplied

Monthly Required Collection Frequency – Apr. Number – 12.0 format, if supplied

Monthly Required Collection Frequency – May. Number – 12.0 format, if supplied

Monthly Required Collection Frequency – Jun. Number – 12.0 format, if supplied

Monthly Required Collection Frequency – Jul. Number – 12.0 format, if supplied

Monthly Required Collection Frequency – Aug. Number – 12.0 format, if supplied

Monthly Required Collection Frequency – Sep. Number – 12.0 format, if supplied

Monthly Required Collection Frequency – Oct. Number – 12.0 format, if supplied

Monthly Required Collection Frequency – Nov. Number – 12.0 format, if supplied

Monthly Required Collection Frequency – Dec. Number – 12.0 format, if supplied

Formatting Rule

MF = Monitor Sample Schedule

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Must exist in PARAMETERS Reference Table

Must exist in MONITORS table with Parameter

Must exist in COLLECTION_FREQUENCIES Reference Table

Date - YYYYMMDD format

Date - YYYYMMDD format

Data Input Formats

MG Monitor Tangent RoadsField NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RParameter^RPOC^RTangent Street Number^RDistance from Monitor to Tangent Road^{R(I, U)}Formatting Rule

MG = Monitor Tangent Road

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Must exist in PARAMETERS Reference Table

Must exist in MONITORS table with Parameter

Must exist in Site Tangent Street Table

Number - 8.2 format

MH Monitor Obstruction InformationField NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RParameter^RPOC^RProbe Obstruction Type^RDirection from Monitor to Probe Obstruction^RDistance from Monitor to Probe Obstruction^RProbe Obstruction Height^RFormatting Rule

MH = Monitor Obstruction

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Must exist in PARAMETERS Reference Table

Must exist in MONITORS table with Parameter

Must exist in PROBE_OBSTRUCTION_TYPES Ref. Table

Must exist in COMPASS_SECTORS Reference Table

Number - 8.2 format

Number - 8.2 format

MI Monitor Regulatory ComplianceField NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RParameter^RPOC^RRegulation Code^R

Compliance Indicator

Compliance Date

Formatting Rule

MI = Monitor Reg. Compliance

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Must exist in PARAMETERS Reference Table

Must exist in MONITORS table with Parameter

Must exist in PARAMETER_REGULATIONS Reference Table
'Y' or 'N'

Date - YYYYMMDD format

MJ Monitor Collocation PeriodField NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RParameter^RPOC^RCollocation Begin Date^R

Collocation End Date

Distance from Primary Sampler

Primary Sampler Indicator^RFormatting Rule

MJ = Monitor Collocation Period

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Must exist in PARAMETERS Reference Table

Must exist in MONITORS table with Parameter

Date - YYYYMMDD format

Date - YYYYMMDD format

Number - 8.2 format

'Y' or 'N'

Data Input Formats

MK Monitor ProtocolField NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RParameter^RPOC^RMonitor Protocol ID (MP ID)^RDuration Code^{R(I)}Reported Unit^{R(I)}Method Code^{R(I)}

Collection Frequency Code

Composite Type

Alternate Method Detectable Limit

Formatting Rule

MK = Monitor Protocol

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Must exist in PARAMETERS Reference Table

Must exist in MONITORS table with Parameter

Number - 2.0 format

Must exist in SAMPLE_DURATIONS Reference Table

Must exist in UNITS Reference Table

Must exist in SAMPLING_METHODOLOGIES Reference Table

Must exist in COLLECTION_FREQUENCIES Reference Table, if valued

Must exist in COMPOSITE_TYPES Reference Table, if valued

Number - 5.5 format

Data Input Formats

Reported Data Values**RC Composite Raw Data**Field NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RParameter^RPOC^RReported Unit^{R(I)}Method Code^{R(I)}Composite Year^RComposite Period^RNumber of Samples^{R(I)}

Composite Type

Reported Sample Value^{R(I)}

Monitor Protocol ID (MP ID)

Qualifier Code -1

Qualifier Code -2

Qualifier Code -3

Qualifier Code -4

Qualifier Code -5

Qualifier Code -6

Qualifier Code -7

Qualifier Code -8

Qualifier Code -9

Qualifier Code -10

Alternate Method Detectable Limit

Uncertainty Value

Formatting Rule

RC = Composite Data Type

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Must exist in PARAMETERS Reference Table

Must exist in MONITORS table with Parameter

Must exist in UNITS Reference Table

Must exist in SAMPLING_METHODOLOGIES Reference Table

Date – YYYY format

Must exist in COMPOSITE_TYPES Reference Table

Number – 10.0 format

Must exist in COMPOSITE_TYPES Reference Table

Number - 5.5 format

Must exist in Monitor Protocols table for the monitor

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Number - 5.5 format

Number - 6.5 format

RD Hourly, Daily, and Sub Hourly Raw DataField NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RParameter^RPOC^RDuration Code^{R(I)}Reported Unit^{R(I)}Method Code^{R(I)}Sample Date^RSample Time^RReported Sample Value^{X(I,U)}Null Data Code^{X(I,U)}

Collection Frequency Code

Monitor Protocol ID (MP ID)

Qualifier Code -1

Qualifier Code -2

Qualifier Code -3

Qualifier Code -4

Qualifier Code -5

Qualifier Code -6

Qualifier Code -7

Qualifier Code -8

Qualifier Code -9

Qualifier Code -10

Alternate Method Detectable Limit

Uncertainty Value

Formatting Rule

RD = Raw Data Type

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Must exist in PARAMETERS Reference Table

Must exist in MONITOR table with Parameter

Must exist in SAMPLE_DURATIONS Reference Table

Must exist in UNITS Reference Table

Must exist in SAMPLING_METHODOLOGIES Reference Table

YYYYMMDD format

hh:mm format

Number - 5.5 format

Must exist in QUALIFIERS Reference Table, if valued

Must exist in COLLECTION_FREQUENCIES Reference Table

Must exist in Monitor Protocols Table for the Monitor

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Number - 5.5 format

Number – 6.5 format

Data Input Formats

RA Accuracy DataField NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RParameter^RPOC^R

Accuracy Audit ID Number

Duration Code^{R(I,U)}Reported Unit^{R(I,U)}Method Code^{R(I,U)}

Year Represented

Quarter Represented

Accuracy Date^RAudit Type^{R(I)}Local Primary Standard^{R(I)}Audit Class^{R(I)}Accuracy Type^{R(I)}

Audit Sample ID

Expiration Date

Audit Scheduled

Level 1 Actual Value^{X(I,U)}Level 1 Indicated Value^{X(I,U)}Level 2 Actual Value^{X(I,U)}Level 2 Indicated Value^{X(I,U)}Level 3 Actual Value^{X(I,U)}Level 3 Indicated Value^{X(I,U)}Level 4 Actual Value^{X(I,U)}Level 4 Indicated Value^{X(I,U)}Level 5 Actual Value^{X(I,U)}Level 5 Indicated Value^{X(I,U)}

Zero Span

Formatting Rule

RA = Raw Accuracy Data

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Must exist in PARAMETERS Reference Table

Must exist in MONITORS table with Parameter

Number - 2.0 format (Legacy "Sequence #")

Must exist in SAMPLE_DURATIONS Reference Table

Must exist in UNITS Reference Table

Must exist in SAMPLING_METHODOLOGIES Reference Table

Date - YYYY format

'Q1', 'Q2', 'Q3', or 'Q4'

Date - YYYYMMDD format

Must exist in AUDIT_TYPES Reference Table

Must exist in LOCAL_PRIMARY_STANDARDS Reference Table

Must exist in AUDIT_CALASES Reference Table

Must exist in ACCURACY_TYPES Reference Table, if supplied Text

Date - YYYYMMDD format

Date - YYYYMMDD format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

RP Precision DataField NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RParameter^RPOC^RPrecision ID^RDuration Code^{R(I,U)}Reported Unit^{R(I,U)}Actual Method^{R(I,U)}Precision Date^R

Actual Value

Indicated Method

Collocated POC^{X(I)}

Precision Sample ID

Agency Performing FRM Audit^{X(I)}Formatting Rule

RP = Raw Precision Data

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Must exist in PARAMETERS Reference Table

Must exist in MONITORS table with Parameter

Number - 2.0 format

Must exist in SAMPLE_DURATIONS Reference Table

Must exist in UNITS Reference Table

Must exist in SAMPLING_METHODOLOGIES Reference Table

Date - YYYYMMDD format

Number - 5.5 format

Must exist in SAMPLING_METHODOLOGIES Reference table

Indicated Value Number - 5.5 format

Must exist in MONITOR Table (only for collocated data)

Text - Up to 10 characters

Must exist with STATE_AGENCIES Table (only for FRM data)

Data Input Formats

RS Annual Summary DataField NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RParameter^RPOC^RDuration Code^{R(I,U)}Reported Unit^{R(I,U)}Method Code^{R(I,U)}Summary Year^RExceptional Data Type ID^R

Count of Observations

Count of Exceptional Events

Maximum Value

Maximum Value Date

Maximum Value Time

Maximum Value 2nd Highest

Maximum Value Date 2nd Highest

Maximum Value Time 2nd Highest

Maximum Value 3rd Highest

Maximum Value 4th Highest

Maximum Value 5th Highest

Minimum Sample Value

Arithmetic Mean

Arithmetic Standard Deviation

Geometric Mean

Geometric Standard Deviation

Percentile Sample Value - 10th

Percentile Sample Value - 25th

Percentile Sample Value - 50th

Percentile Sample Value - 75th

Percentile Sample Value - 90th

Percentile Sample Value - 95th

Percentile Sample Value - 98th

Percentile Sample Value - 99th

Percent of Observations

Count of Half-MDL Substitutions

Formatting Rule

Must exist in Reference Table (RS = Annual Summary)

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Must exist in PARAMETERS Reference Table

Must exist in MONITORS table with Parameter

Must exist in SAMPLE_DURATIONS Reference Table

Must exist in UNITS Reference Table

Must exist in SAMPLING_METHODOLOGIES Reference Table

Date - YYYY format

'0', '1', or '2'

Number - 5.0 format

Number - 5.0 format

Number - 5.5 format

Date - YYYYMMDD Format

Date - hh:mm format

Number - 5.5 format

Date - YYYYMMDD format

hh:mm format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 5.5 format

Number - 6.4 format

Number - 5.0 format

*At least one of these
fields must be valued
on an Insert or Update*

Data Input Formats

RB Blanks DataField NameTransaction Type^RAction Indicator^RState Code / Tribal Indicator^RCounty Code / Tribal Code^RSite ID^RParameter^RPOC^RDuration Code^{R(I,U)}Reported Unit^{R(I,U)}Method Code^{R(I,U)}Blank Type^RBlank Date^RBlank Time^RBlank Value^{X(I)}Null Data Code^{X(I,U)}

Qualifier Code -1

Qualifier Code -2

Qualifier Code -3

Qualifier Code -4

Qualifier Code -5

Qualifier Code -6

Qualifier Code -7

Qualifier Code -8

Qualifier Code -9

Qualifier Code -10

Alternate Method Detectable Limit

Uncertainty Value

Formatting Rule

RB = Raw Blanks Type

Must = I, U, or D

Must exist in STATES Reference Table or be 'TT' for Tribal Site

Must exist in COUNTIES or TRIBAL_AREAS Reference Table

Must exist in SITES table with the {State Code, County Code} or Tribal Code

Must exist in PARAMETERS Reference Table

Must exist in MONITORS table (with Parameter)

Must exist in SAMPLE_DURATIONS Reference Table

Must exist in UNITS Reference Table

Must exist in SAMPLING METHODOLOGIES Reference Table

Either 'FIELD' or 'TRIP'

YYYYMMDD format

hh:mm format

Number - 10.5 format

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Must exist in QUALIFIERS Reference Table, if valued

Number - 5.5 format

Number - 6.5 format