APPENDIX A

DATA SOURCES

State (if applicable): Connecticut
Agency: Department of Environmental Protection
Primary Contact: Michael Beauchene
Phone or e-mail: mike.beauchene@po.state.ct.us

Quality Assurance Checklist: Each data notation should include the following metadata information

I. Location and Description of Waterbody

		Comment:
Waterbody Name:	X	
Ecoregion:		
State:	X	
County:		
City/Town:	X	
Locale Type:		
Watershed or USGS HUC:		
Latitude:	X	
Longitude:	X	
River Reach/Mile or Stream Reach:		
Size of Waterbody:		
Salinity Condition (e.g. freshwater):		
Type of Waterbody (e.g. lake or reservoir):	X	
(Rivers) Waterbody Subtype:		
Average Depth of water:		
Maximum Depth of Water:		
Average width or diameter:		
Area in acres:		
Hydraulic Residence (or Flushing Rate)		
Stream Flow		
Velocity		
Human Impact to Shore:		
Human Impact on Watershed:		
Point Source:		
Non-Point Source:		
Description of Riparian Zone:		

II. Sampling Site Description

Water Depth:		
Sample Depth (location in Water Column):		
Depth Units:		
Station:	X	
Distance from Shore Sampling Code (A-F):		
Sampling Date & Time:	X	
Qualifiers:		

III. Source of data

Name of Contact:		
Agency Conducting the Study :		
Phone Number/ E-mail for Contact:		
Laboratory:		
Analysis Method :		
Sampling Method (Composite/Grab):		
Detection Limits:	X	Minimum detection limit

IV. Water quality data

Parameters: N, Organic; NH3-N; NO2-N; NO3-N; TKN; TP

State (if applicable): NA - National
Agency: EPA-EMAP
Primary Contact: Stephen Hale
Phone or e-mail: Hale.Stephen@epamail.epa.gov

Quality Assurance Checklist: Each data notation should include the following metadata information

I. Location and Description of Waterbody

Waterbody Name:	X	Comment:
Ecoregion:		
State:	X	
County:		
City/Town:		
Locale Type:		
Watershed or USGS HUC:	X	
Latitude:	X	
Longitude:	X	
River Reach/Mile or Stream Reach:		
Size of Waterbody:		
Salinity Condition (e.g. freshwater):		
Type of Waterbody (e.g. lake or reservoir):		
(Rivers) Waterbody Subtype:		
Average Depth of water:		
Maximum Depth of Water:		
Average width or diameter:		
Area in acres:		
Hydraulic Residence (or Flushing Rate)		
Stream Flow		
Velocity		
Human Impact to Shore:		
Human Impact on Watershed:		
Point Source:		
Non-Point Source:		
Description of Riparian Zone:		

II. Sampling Site Description

Water Depth:		
Sample Depth (location in Water Column):		
Depth Units:		
Station:	X	
Distance from Shore Sampling Code (A-F):		
Sampling Date & Time:	X	
Qualifiers:		

III. Source of data

Name of Contact:	
Agency Conducting the Study :	
Phone Number/ E-mail for Contact:	
Laboratory:	
Analysis Method :	
Sampling Method (Composite/Grab):	
Detection Limits:	

IV. Water quality data

Parameters: Alkalinity, acid neutralizing capacity, chla, color, conductivity, NH4, NO3, secchi disk transparency, SO4, TN, TP, TSS, turbidity.

State (if applicable): Massachusetts
Agency: Acid Rain Monitoring Project
Primary Contact: Paul Godfrey
Phone or e-mail: godfrey@tei.umass.edu

Quality Assurance Checklist: Each data notation should include the following metadata information

I. Location and Description of Waterbody

		Comment:
Waterbody Name:	X	
Ecoregion:		
State:	X	
County:	X	
City/Town:	X	
Locale Type:		
Watershed or USGS HUC:		
Latitude:	X	
Longitude:	X	
River Reach/Mile or Stream Reach:		
Size of Waterbody:		
Salinity Condition (e.g. freshwater):		
Type of Waterbody (e.g. lake or reservoir):	X	
(Rivers) Waterbody Subtype:		
Average Depth of water:		
Maximum Depth of Water:		
Average width or diameter:		
Area in acres:		
Hydraulic Residence (or Flushing Rate)		
Stream Flow		
Velocity		
Human Impact to Shore:		
Human Impact on Watershed:		
Point Source:		
Non-Point Source:		
Description of Riparian Zone:		

II. Sampling Site Description

Water Depth:		
Sample Depth (location in Water Column):		
Depth Units:		
Station:	X	
Distance from Shore Sampling Code (A-F):		
Sampling Date & Time:	X	
Qualifiers:		

III. Source of data

Name of Contact:		
Agency Conducting the Study :		
Phone Number/ E-mail for Contact:		
Laboratory:		
Analysis Method :		
Sampling Method (Composite/Grab):		
Detection Limits:		

IV. Water quality data

Parameters: Alkalinity, NO3, pH, SO4.

Development of Nutrient Criteria - Review of Electronic Data Sources

State (if applicable): Maine

Agency: Department of Environmental Protection

Primary Contact: Paul Mitnik

Phone or e-mail: Paul.Mitnik@maine.gov

Quality Assurance Checklist: Each data notation should include the following metadata information

I. Location and Description of Waterbody

Waterbody Name:	X	Comment:
Ecoregion:		
State:		
County:	X	
City/Town:	X	
Locale Type:	X	
Watershed or USGS HUC:		
Latitude:	X	
Longitude:	X	
River Reach/Mile or Stream Reach:		
Size of Waterbody:		
Salinity Condition (e.g. freshwater):		
Type of Waterbody (e.g. lake or reservoir):		
(Rivers) Waterbody Subtype:		
Average Depth of water:		
Maximum Depth of Water:		
Average width or diameter:		
Area in acres:		
Hydraulic Residence (or Flushing Rate)		
Stream Flow		
Velocity		
Human Impact to Shore:		
Human Impact on Watershed:		
Point Source:		
Non-Point Source:		
Description of Riparian Zone:		

II. Sampling Site Description

Water Depth:		
Sample Depth (location in Water Column):		
Depth Units:		
Station:	X	
Distance from Shore Sampling Code (A-F):		
Sampling Date & Time:	X	
Qualifiers:		

III. Source of data

Name of Contact:	
Agency Conducting the Study :	
Phone Number/ E-mail for Contact:	
Laboratory:	
Analysis Method :	
Sampling Method (Composite/Grab):	
Detection Limits:	

IV. Water quality data

Parameters: Alkalinity, bacteria, BOD5, BOD60, CBOD, CCHLA, CHLA, CHLB, CHLC, color, conductivity, DO, NBOD, NH3, NO2+NO3, NOX, pH, phaeophyton, PO4-P, Q, secchi disk transparency, TBOD, temperature, TKN, TP.

State (if applicable): New Hampshire
Agency: EPA, MODERNIZED STORET
Primary Contact: Anonymous for EPA; Gregg Comstock for NHDES
Phone or e-mail: STORET@epa.gov; gcomstock@des.state.nh.us

Quality Assurance Checklist: Each data notation should include the following metadata information

I. Location and Description of Waterbody

		Comment:	
Waterbody Name:	X		
Ecoregion:			
State:	X		
County:			
City/Town:	X		
Locale Type:	X		
Watershed or USGS HUC:			
Latitude:	X		
Longitude:	X		
River Reach/Mile or Stream Reach:			
Size of Waterbody:			
Salinity Condition (e.g. freshwater):			
Type of Waterbody (e.g. lake or reservoir):			
(Rivers) Waterbody Subtype:			
Average Depth of water:			
Maximum Depth of Water:			
Average width or diameter:			
Area in acres:			
Hydraulic Residence (or Flushing Rate)			
Stream Flow			
Velocity			
Human Impact to Shore:			
Human Impact on Watershed:			
Point Source:			
Non-Point Source:			
Description of Riparian Zone:			

II. Sampling Site Description

Water Depth:			
Sample Depth (location in Water Column):			
Depth Units:			
Station:	X		
Distance from Shore Sampling Code (A-F):			
Sampling Date & Time:	X	Both date and time	
Qualifiers:	X		

III. Source of data

Name of Contact:		
Agency Conducting the Study :		
Phone Number/ E-mail for Contact:		
Laboratory:		
Analysis Method :		
Sampling Method (Composite/Grab):	X	
Detection Limits:	X	

IV. Water quality data

Parameters: Alkalinity, aluminum, arsenic, BOD, BOD-UC, cadmium, calcium, chl-a, chloride, shromium, COD, copper, DO, DOS, Enterococcus, Eschericia coli, flow, gen_obs, hardness, iron, lead, manganese, nickel, Kjeldahl-N, NH3-N, NO3-N, pH, secchi disk transparency,selenium, specific conductance, fecal Streptococcus, sulfate, air temperature, water temperature, total coliform, total fecal coliform, TP, TS, TSS, turbidity, water appearance, weather comments, zinc.

State (if applicable): Maine
Agency: Penobscot Indian Nation
Primary Contact: Dan Kusnierz
Phone or e-mail: pinwater@penobscotnation.org

Quality Assurance Checklist: Each data notation should include the following metadata information

I. Location and Description of Waterbody

		Comment:
Waterbody Name:	X	
Ecoregion:		
State:	X	
County:		
City/Town:		
Locale Type:	X	
Watershed or USGS HUC:		
Latitude:		
Longitude:		
River Reach/Mile or Stream Reach:		
Size of Waterbody:		
Salinity Condition (e.g. freshwater):		
Type of Waterbody (e.g. lake or reservoir):		
(Rivers) Waterbody Subtype:		
Average Depth of water:		
Maximum Depth of Water:		
Average width or diameter:		
Area in acres:		
Hydraulic Residence (or Flushing Rate)		
Stream Flow		
Velocity		
Human Impact to Shore:		
Human Impact on Watershed:		
Point Source:		
Non-Point Source:		
Description of Riparian Zone:		

II. Sampling Site Description

Water Depth:		
Sample Depth (location in Water Column):		
Depth Units:		
Station:	X	
Distance from Shore Sampling Code (A-F):		
Sampling Date & Time:	X	Date only
Analysis Date:		

III. Source of data

Name of Contact:	
Agency Conducting the Study :	
Phone Number/ E-mail for Contact:	
Laboratory:	
Analysis Method :	
Sampling Method (Composite/Grab):	
Detection Limits:	

IV. Water quality data

Parameters: Chl-a, conductivity, DOC, NH3, NO2, NO3, secchi disk transparency, temperature, TN, TP, TSS, turbidity.

State (if applicable): Rhode Island
Agency: Department of Environmental Management
Primary Contact: Connie Carey
Phone or e-mail: ccarey@doa.state.ri.us

Quality Assurance Checklist: Each data notation should include the following metadata information

I. Location and Description of Waterbody

		Comment:	
Waterbody Name:	X		River name and ID
Ecoregion:			
State:	X		Inferred from source
County:			
City/Town:			
Locale Type:			
Watershed or USGS HUC:	X		Basin name
Latitude:	X		
Longitude:	X		
River Reach/Mile or Stream Reach:			
Size of Waterbody:			
Salinity Condition (e.g. freshwater):			
Type of Waterbody (e.g. lake or reservoir):			
(Rivers) Waterbody Subtype:			
Average Depth of water:			
Maximum Depth of Water:			
Average width or diameter:			
Area in acres:			
Hydraulic Residence (or Flushing Rate)			
Stream Flow			
Velocity			
Human Impact to Shore:			
Human Impact on Watershed:			
Point Source:			
Non-Point Source:			
Description of Riparian Zone:			

II. Sampling Site Description

Water Depth:			
Sample Depth (location in Water Column):			
Depth Units:			
Station:	X		Station name and location
Distance from Shore Sampling Code (A-F):			
Sampling Date & Time:	X		Date only
Qualifiers:			

III. Source of data

Name of Contact:	
Agency Conducting the Study :	
Phone Number/ E-mail for Contact:	
Laboratory:	
Analysis Method :	
Sampling Method (Composite/Grab):	
Detection Limits:	X

IV. Water quality data

Parameters: Conductivity, DO, NH3, NO2+NO3-D, NO3, NO3-D, pH, temperature, TP, TSS

Development of Nutrient Criteria - Metadata Review for Data Completeness

State (if applicable): RI
Agency: USGS
Primary Contact:
Phone or e-mail:

Quality Assurance Checklist: Each data notation should include the following metadata information

I. Location and Description of Waterbody

Waterbody Name:	X	Comment:
Ecoregion:		
State:	X	
County:		
City/Town:		
Locale Type:		
Watershed or USGS HUC:		
Latitude:	X	
Longitude:	X	
River Reach/Mile or Stream Reach:		
Size of Waterbody:		
Salinity Condition (e.g. freshwater):		
Type of Waterbody (e.g. lake or reservoir):		
(Rivers) Waterbody Subtype:		
Average Depth of water:		
Maximum Depth of Water:		
Average width or diameter:		
Area in acres:		
Hydraulic Residence (or Flushing Rate)		
Stream Flow		
Velocity		
Human Impact to Shore:		
Human Impact on Watershed:		
Point Source:		
Non-Point Source:		
Description of Riparian Zone:		

II. Sampling Site Description

Water Depth:		
Sample Depth (location in Water Column):		
Depth Units:		
Station:	X	
Distance from Shore Sampling Code (A-F):		
Sampling Date & Time:	x	Date only
Analysis Date:		

III. Source of data

Name of Contact:		
Agency Conducting the Study :		
Phone Number/ E-mail for Contact:		
Laboratory:		
Analysis Method :		
Sampling Method (Composite/Grab):		
Detection Limits:		

IV. Water quality data

Parameters: DO, NH3, NO2+NO3-D, NO3, NO3-D, pH, temperature, TP.

State (if applicable): NA - National
Agency: EPA, STORET
Primary Contact: Dan Parker
Phone or e-mail: PARKER.DAN@epamail.epa.gov

Quality Assurance Checklist: Each data notation should include the following metadata information

I. Location and Description of Waterbody

		Comment:
Waterbody Name:	X	
Ecoregion:		
State:	X	
County:	X	
City/Town:	X	
Locale Type:	X	
Watershed or USGS HUC:	X	
Latitude:	X	
Longitude:	X	
River Reach/Mile or Stream Reach:		
Size of Waterbody:		
Salinity Condition (e.g. freshwater):		
Type of Waterbody (e.g. lake or reservoir):		
(Rivers) Waterbody Subtype:		
Average Depth of water:		
Maximum Depth of Water:		
Average width or diameter:		
Area in acres:		
Hydraulic Residence (or Flushing Rate)		
Stream Flow	X	
Velocity		
Human Impact to Shore:		
Human Impact on Watershed:		
Point Source:		
Non-Point Source:		
Description of Riparian Zone:		

II. Sampling Site Description

Water Depth:		
Sample Depth (location in Water Column):	X	
Depth Units:		Not in electronic file
Station:	X	Station ID and location description
Distance from Shore Sampling Code (A-F):		
Sampling Date & Time:	X	Both date and time
Qualifiers:		

III. Source of data

Name of Contact:	
Agency Conducting the Study :	
Phone Number/ E-mail for Contact:	
Laboratory:	
Analysis Method :	
Sampling Method (Composite/Grab):	
Detection Limits:	

IV. Water quality data

Parameters: DO, NH3+NH4, NO2, NO2+NO3, secchi disk transparency, temperature, TKN, TP, turbidity.

State (if applicable): Rhode Island
Agency: University of Rhode Island Watershed Watch
Primary Contact: Linda Green
Phone or e-mail: lgreen@uri.edu

Quality Assurance Checklist: Each data notation should include the following metadata information

I. Location and Description of Waterbody

		Comment:
Waterbody Name:	X	
Ecoregion:		
State:	X	
County:		
City/Town:		
Locale Type:		
Watershed or USGS HUC:		
Latitude:		
Longitude:		
River Reach/Mile or Stream Reach:		
Size of Waterbody:		
Salinity Condition (e.g. freshwater):		
Type of Waterbody (e.g. lake or reservoir):		
(Rivers) Waterbody Subtype:		
Average Depth of water:		
Maximum Depth of Water:		
Average width or diameter:		
Area in acres:		
Hydraulic Residence (or Flushing Rate)		
Stream Flow		
Velocity		
Human Impact to Shore:		
Human Impact on Watershed:		
Point Source:		
Non-Point Source:		
Description of Riparian Zone:		

II. Sampling Site Description

Water Depth:		
Sample Depth (location in Water Column):	X	For selected samples (others deep/shallow)
Depth Units:	X	Meters when available
Station:	X	Station ID and description
Distance from Shore Sampling Code (A-F):		
Sampling Date & Time:	X	Date only
Qualifiers:		

III. Source of data

Name of Contact:	
Agency Conducting the Study :	
Phone Number/ E-mail for Contact:	
Laboratory:	
Analysis Method :	
Sampling Method (Composite/Grab):	
Detection Limits:	

IV. Water quality data

Parameters: Chlorophyl-a, secchi disk transparency, TN, TP.

State (if applicable): Vermont
Agency: Department of Environmental Conservation
Primary Contact: Eric Smeltzer
Phone or e-mail: eric.Smeltzer@dec.anr.state.vt.us

Quality Assurance Checklist: Each data notation should include the following metadata information

I. Location and Description of Waterbody

Waterbody Name:	X	Comment:
Ecoregion:		
State:	X	
County:		
City/Town:		
Locale Type:		
Watershed or USGS HUC:	X	Basin ID
Latitude:	X	Coords in ddmmss
Longitude:	X	Coords in ddmmss
River Reach/Mile or Stream Reach:		
Size of Waterbody:		
Salinity Condition (e.g. freshwater):		
Type of Waterbody (e.g. lake or reservoir):		None. Inferred from name
(Rivers) Waterbody Subtype:		
Average Depth of water:		in meters
Maximum Depth of Water:		in meters
Average width or diameter:		
Area in acres:		Lake area in acres. Also basin area.
Hydraulic Residence (or Flushing Rate)		
Stream Flow	X	
Velocity		
Human Impact to Shore:		
Human Impact on Watershed:		
Point Source:		
Non-Point Source:		Landuse. Tributary data has nutrient loads
Description of Riparian Zone:		

II. Sampling Site Description

Water Depth:		
Sample Depth (location in Water Column):		Sampling depth provided
Depth Units:		No units indicated
Station:	X	Storet number provided.
Distance from Shore Sampling Code (A-F):		
Sampling Date & Time:	X	Both date and time
Qualifiers:		

III. Source of data

Name of Contact:		
Agency Conducting the Study :		
Phone Number/ E-mail for Contact:		
Laboratory:		
Analysis Method :	X	
Sampling Method (Composite/Grab):		
Detection Limits:		

IV. Water quality data

Parameters: Alkalinity, chl-a, DP, TCL, TN, TNOX, TP, TSS.

APPENDIX B

MAIN DATA TABLES

WATERBODY Table Structure

Key	Field Name	Data Type	Description
	Unique_NO	Number (Long)	Database waterbody sequence number
**	Waterbody_ID	Text	Unique waterbody identifier
	Waterbody_Name	Text	Waterbody name
	Waterbody_Type	Text	Waterbody type (link to table)
	Waterbody_Number	Text	Waterbody number in original source for data
	Waterbody_Description	Text	General description of waterbody
	State	Text	State
	Town	Text	Town
	County	Text	County
	Map	Text	Name of USGS quad map
	Lake_Elev	Number (Single)	Elevation of the lake (m)
	Coords_Latitude	Number (Double)	Latitude of lake center (decimal degrees)
	Coords_Longitude	Number (Double)	Longitude of lake center (decimal degrees)
	Epa_Ecoregion	Text	EPA Nutrient Ecoregion name
	Lake_Area	Number (Single)	Lake area (ha)
	Lake_Volume	Number (Single)	Lake volume (cu-m)
	Basin_Area	Number (Single)	Area of basin contributing to lake (ha)
	Lake_Max_Depth	Number (Single)	Lake maximum depth (m)
	Lake_Mean_Depth	Number (Single)	Lake mean depth (m)
	Runoff_Avg	Number (Single)	Average runoff
	Retention_Time	Number (Single)	Lake retention time (yrs)
	Wq_Classification	Text	Classification based on water quality
	Acidification_Cat	Text	Lake acidification category
	Lake_Size_Cat	Text	Lake size category (small, medium, large – as per EMAP)
	Lake_Trophic_Cat	Text	Lake trophic category (low, medium, high – as per EMAP)
	Lake_Population_Cat	Text	Lake population category (low, medium, high – as per EMAP)
	Geologic_Zone	Text	Name of geologic zone
	Tributary_Code	Text	River/stream tributary code
	Used	Text	Selected for refined database (yes/no)
	Scoring_Results	Number (Integer)	Scoring results for nutrient parameters (0-4)
	Designated Water Use	Text	Designated water use
	IMPAIRED_303d	Text	Listed on the 303d list
	WQEvaluation	Text	Qualitative general evaluation of water quality by state contacts
	Reference_Stats75	Text	Assessment based on 75th percentile from database (REF, TEST, IMP)
	Assessment	Text	Assessment by state contacts (REF, TEST, IMP)

Key	Field Name	Data Type	Description
	Assessment_Comments	Memo	Basis for the assessment
	Lu_Residential	Number (Double)	Residential land within 5 km buffer (%)
	Lu_Commercial	Number (Double)	Commercial land use within 5 km buffer (%)
	Lu_Barren	Number (Double)	Barren land fraction within 5 km buffer (%)
	Lu_Forested	Number (Double)	Forested land within 5 km buffer (%)
	Lu_Shrubland	Number (Double)	Shrubland land within 5 km buffer (%)
	Lu_Woody	Number (Double)	Woody land within 5 km buffer (%)
	Lu_Agricultural	Number (Double)	Agricultural land within 5 km buffer (%)
	Lu_Recreational	Number (Double)	Recreational land within 5 km buffer (%)
	Lu_Wetland	Number (Double)	Wetland land within 5 km buffer (%)
	Comments	Memo	General comments on waterbody

STATION Table Structure

Key	Field Name	Data Type	Description
**	Station_ID	Text	Database unique station identifier
	Waterbody_ID	Text	Waterbody (link to table)
	Location_Descrip	Memo	Brief description of location
	Latitude	Number (Double)	Latitude (decimal degrees)
	Longitude	Number (Double)	Longitude (decimal degrees)
	Elevation	Number (Double)	Elevation from MWL
	Locale_Type	Text	Type of locale (link to table)
	Locale_Name	Text	Town/city name
	County	Text	County name
	State	Text	State
	Agency_Station_ID	Text	Station ID used by monitoring agency
	Agency_Name	Text	Name of monitoring agency
	Station_Type	Text	Type of station
	Gis_Huc_Code	Text	Hydrologic Unit Code (8-digit) – from GIS
	Watershed_Name	Text	Name of watershed
	Waterbody_Subtype	Text	Waterbody subtype (link to table)
	Waterbody_Class	Text	Waterbody class
	Tributary_Code	Text	Tributary code
	Mileage	Number (Double)	River mile
	Rf3_Unit	Text	Reach File Unit
	Rf3_Code	Number (Integer)	Reach File Code
	Epa_Ecoregion	Text	EPA Nutrient Ecoregion name
	Riparian_Zone	Text	Riparian zone (link to table)
	Microecoregion	Text	50
	Human_Impact_Shoreline	Text	Human impact to shoreline (link to table)
	Point_Source_Impact	Text	Point source impact (link to table)
	Nonpoint_Source_Impact_ID	Text	Non-point source impact (link to table)
	Impact_Remarks	Text	Comments on impacts assessment
	Contact_Name	Text	Name of contact for station
	Contact_Phone	Text	Phone of contact for station
	Contact_Address	Text	Address of contact for station
	Flow_Mean	Number (Double)	Mean flow (7Q10)
	Data_Source	Text	Source of data for ancillary data on station
	Comments	Text	General comments on station

SAMPLE Table Structure

Key[1]	Field Name	Data Type	Description
	Sample_ID	Number (Long)	Sample ID database sequence number
**	Station_ID	Text	Station (link to Station table)
	Agency_SampleID	Text	Sample ID used by monitoring agency
	Agency_ID	Text	Monitoring agency
**	Sampling_Date	Date/Time	Sampling Date
**	Sampling_Time	Date/Time	Sampling Time (12:00 AM if missing)
**	Sampling_Method	Text	Sampling Method (link to table)
**	Sample_Type	Text	Sample type (link to table)
	Sampling_Conditions	Text	Sampling conditions (link to table)
**	Sample_Depth	Number (Double)	Depth of sample (-9999 if missing)
	WaterDepth	Number (Double)	Water depth at time of sampling
	DataSource	Text	Source the data was obtained from
	Comments	Text	Additional comments

[1] A combination of the StationID, Sampling Date, Sampling Time, Sampling Method, Sample Type, and Sample Depth fields is used to define a unique record.

WQDATA Table Structure

Key[1]	Field Name	Data Type	Description
	Wqdata_ID	Number (Long)	Database water quality data sequence number
**	SampleID	Number (Long)	Unique database sample ID
**	Parameter	Text	Parameter (link to table)
	Analysis_Date	Text	Date analyzed
	Analysis_Time	Text	Time analyzed
	Analysis_Method	Number (Long)	Analysis method (link to table)
	Analysis_Method_Remarks	Text	Remarks on analysis method
	Reported_Value	Number (Double)	Value reported
	Reported_Qualifier	Text	Qualifier (link to table)
	Unit_Of_Measure	Text	Unit
	Detection_Limit	Number (Double)	Reported detection limit
	Measurement_Uncertainty	Number (Double)	Uncertainty on measurement
	Data_Source	Text	Source the data was obtained from
	Comments	Text	General comment on the water quality data

[1] A combination of the SampleID and Parameter fields are used to define a unique record.