

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Organization	ADDRESS	TSMADDR	TSMADDR				The various addresses associated with the Organization, and the date on which each became effective. These addresses include: Located At; Shipping; Mailing	
Column	2	Organization	ADDRESS	TSMADDR	TSMADDR_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Organization	ADDRESS	TSMADDR	TSMADDR_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Organization	ADDRESS	TSMADDR	TYPE_CODE	Char	10	Not Null	The code designating the type of Address.	-- Located at: Address represents the physical location of the person, place, or organization. -- Shipping Address: used when shipping bulk material to the person, place, or organization. -- Mailing: Address used when mailing material to the person, place, or organization.
Column	5	Organization	ADDRESS	TSMADDR	START_DATE	Date	8	Null	The date (in format MM-DD-YYYY) the Address became effective. FIELD NOT IN USE.	
Column	6	Organization	ADDRESS	TSMADDR	LINE_ONE_TEXT	Varchar2	40	Null	The first line of an Address which usually denotes the company or individual name.	
Column	7	Organization	ADDRESS	TSMADDR	LINE_TWO_TEXT	Varchar2	40	Null	The second line of an Address usually denotes the mail routing code, p.o. box number, or suite but can also contain company name in addition.	
Column	8	Organization	ADDRESS	TSMADDR	LINE_THREE_TEXT	Varchar2	40	Null	The third line of an Address usually denotes the street address including street name and type, house/office number, or sector designation.	
Column	9	Organization	ADDRESS	TSMADDR	LINE_FOUR_TEXT	Varchar2	40	Null	The name of the city, state, and zip code in an Address.	
Column	10	Organization	ADDRESS	TSMADDR	STATE_POSTAL_CODE	Char	2	Null	The United States Postal Service code/abbreviation for the State in an Address. -- For Canada, a two character abbreviation of the Province name. -- For Mexico, a two character abbreviation of the State name. FIELD NOT IN USE.	Valid codes reside in TSMGEOPA.
Column	11	Organization	ADDRESS	TSMADDR	COUNTRY_CODE	Char	2	Null	The code for the country in an Address.	US - United States MX - Mexico CN - Canada CA - Canada (conflicting information over whether the abbreviation for Canada is CA or CN, so we have both in the system.) <Spaces>
Column	12	Organization	ADDRESS	TSMADDR	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	13	Organization	ADDRESS	TSMADDR	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	14	Organization	ADDRESS	TSMADDR	TSMSTATN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMSTATN implements "One station may have many addresses."	Key must pre-exist in TSMSTATN.
FK Column	15	Organization	ADDRESS	TSMADDR	TSMSTATN_ORG_ID	Char	8	Null	The TSMORGAN portion of the key in TSMSTATN.	
FK Column	16	Organization	ADDRESS	TSMADDR	TSMORGAN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMORGAN implements "One Organization may have many addresses."	Key must pre-exist in TSMORGAN.
FK Column	17	Organization	ADDRESS	TSMADDR	TSMCPORG_IS_NUMBER	Number	12,0	Null	The foreign key to TSMCPORG implements "One Cooperating Organization may have many addresses."	Key must pre-exist in TSMCPORG.
FK Column	18	Organization	ADDRESS	TSMADDR	TSMCPORG_ORG_ID	Char	8	Null	The TSMORGAN portion of the key in TSMCPORG.	
FK Column	19	Organization	ADDRESS	TSMADDR	TSMWELL_ORG_ID	Char	8	Null	The TSMORGAN portion of the key in TSMWELL.	
FK Column	20	Organization	ADDRESS	TSMADDR	TSMWELL_IS_NUMBER	Number	12,0	Null	The foreign key to TSMWELL implements "One Well may have many addresses."	Key must pre-exist in TSMWELL.

FK Column	21	Organization	ADDRESS	TSMADDR	TSMWLE_TYPE_NAME	Char	8	Null	The foreign key to TSMWLE implements "One Well Legal Entity may have many addressees."	Key must pre-exist in TSMWLE.
FK Column	22	Organization	ADDRESS	TSMADDR	TSRLAB_IS_NUMBER	Number	12,0	Null	The foreign key to TSRLAB implements "One Laboratory may have many addressees."	Key must pre-exist in TSRLAB.
FK Column	23	Organization	ADDRESS	TSMADDR	TSRLAB_ORG_ID	Char	8	Null	The TSMORGAN portion of the key in TSRLAB.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMALP				The latitude and longitude and optionally the elevation of various points associated with a Sampling Station. Types of Absolute Location Points (ALP) include : Point of Record; Boundary Point; Sampling Point; End of Pipe; Well Head; Transect Origin; Grid Origin. Additional information recorded about an ALP is the accuracy of its determination and the method used. This entity implements the EPA Locational Data Policy. Relationships between a Station and various Geopolitical descriptors are implemented using the latitude and longitude of the Point of Record. Geopolitical descriptors of the Station can include : State/Province/County; FIPS Hydrologic Unit; EPA RF1 River Reach; EPA RF3 River Reach; SCS Watershed; EcoRegion; Native American Land; Ocean/Estuary/Great Lake	
Column	2	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMALP_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMALP_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TYPE_CODE	Char	16	Not Null	The code that identifies the type of location for an Absolute Location Point.	SAMPLING -- SAMPLING POINT: Designates the point at which samples are collected. BOUNDARY -- BOUNDARY POINT: One of a set of points used to describe the boundary of a Station. A Station may have an unlimited number of boundary points. When connected in sequence, these points form a closed polygon which defines the extent of a Station. *POINT OF RECORD -- POINT OF RECORD: A single point that can be used to characterize the entire Station. This point determines the primary assignment of State, County, HUC, and Reach for the Station. Only one Point of Record for Station is allowed. END OF PIPE -- END OF PIPE: Represents the exact location where pipe intake or discharge occurs. WELL HEAD -- WELL HEAD: The structure attached to the top of the Well used to pull the Well into production and prevent contamination. It is frequently used as a reference point for determining elevation/depth. TRANSECT ORIGIN -- TRANSECT ORIGIN: The first point in a series of sampling locations along a line or belt. The Transect Origin point may also be a sampling location. GRID ORIGIN -- GRID ORIGIN: The first point in a series of sampling locations along a grid.
Column	5	Station	ABSOLUTE_LOCATION_POINT	TSMALP	SEQUENCE_NUMBER	Number	4	Null	The number that indicates the sequence position of current point among a group of points. For example, if several points are recorded to mark the boundary of a station, the sequence number specifies the order in which the system should "connect the dots."	Integers 1-9999
Column	6	Station	ABSOLUTE_LOCATION_POINT	TSMALP	POINT_NAME	Varchar2	30	Null	User-specified free text name by which a specific absolute location point will be known.	

Column	7	Station	ABSOLUTE_LOCATION_POINT	TSMALP	ELEVATION_DATUM_CD	Char	12	Null	A permanently established horizontal plane, surface, or level to which soundings, ground elevations, depths, water surface elevations, and tidal data are referred.	Valid datum names are stored in table TSMMD.
Column	8	Station	ABSOLUTE_LOCATION_POINT	TSMALP	ELVTN_METHOD_CD	Char	12	Null	The code that represents the method used to determine elevation of a point of interest.	Valid method codes are stored in table TSMMD.
Column	9	Station	ABSOLUTE_LOCATION_POINT	TSMALP	ELVTN_MSR_DT	Date	8	Null	The date (in format MM-DD-YYYY) when elevation measurement was determined.	
Column	10	Station	ABSOLUTE_LOCATION_POINT	TSMALP	ELEVATION_MSR	Number	9,4	Null	The measure in feet or meters from the reference datum to the point of interest.	0-99999.9999
Column	11	Station	ABSOLUTE_LOCATION_POINT	TSMALP	ELVTN_UNT_CD	Char	3	Null	The code that represents the name of the units associated with the ground elevation of a locational point on the earth's surface.	m (Meters); ft (Feet); <spaces>;
Column	12	Station	ABSOLUTE_LOCATION_POINT	TSMALP	GEOPTNG_DATUM_CD	Char	12	Not Null	The code that represents an acknowledged standard reference scheme of known coordinates from which calculations or measurements may be taken.	Valid datum names are stored in table TSMMD.
Column	13	Station	ABSOLUTE_LOCATION_POINT	TSMALP	GEOPTNG_METHOD_CD	Char	12	Not Null	The code that represents the method used to determine geographic coordinates of a locational point.	Valid method codes are stored in table TSMMD.
Column	14	Station	ABSOLUTE_LOCATION_POINT	TSMALP	GEOPTNG_SCALE_TXT	Varchar2	20	Null	The text that describes the Geopositioning Scale of a map. Example: 1:1000. NOTE: When GEOPOSITIONING METHOD = 'MAP' this attribute is mandatory, and the map scale (in part) determines the expected accuracy of the latitude/longitude.	
Column	15	Station	ABSOLUTE_LOCATION_POINT	TSMALP	LAT_DIRECTION	Char	1	Not Null	The direction of the latitude measurement. North denotes a positive value of the latitude. South denotes a negative value.	N (North), S (South).
Column	16	Station	ABSOLUTE_LOCATION_POINT	TSMALP	LAT_DEGREE_MSR	Number	2	Not Null	The measure of the degree portion of a latitude measurement (0 to 90 degrees), indicating angular distance North or South of the equator. One degree of latitude equals 111.1 Kilometers or approximately 60 Nautical Miles.	Integers 0-90
Column	17	Station	ABSOLUTE_LOCATION_POINT	TSMALP	GPS_LAT_DEGREE_MSR	Number	2	Null	The measure of the degree portion of a latitude measurement (0 to 90 degrees), indicating angular distance North or South of the equator. One degree of latitude equals 111.1 Kilometers or approximately 60 Nautical Miles.	Integers 0-90
Column	18	Station	ABSOLUTE_LOCATION_POINT	TSMALP	GPS_LAT_MINUTE_MSR	Number	6,4	Null	The measure of the minutes portion of latitude (00 to 59.9999 minutes), indicating angular distance North or South of the equator.	Decimal number, 0-59.9999
Column	19	Station	ABSOLUTE_LOCATION_POINT	TSMALP	GPS_LONG_DEG_MSR	Number	3	Null	The measure of the degree portion of longitude (000 to 180 degrees), indicating angular distance West or East of the prime meridian drawn from pole to pole around the Earth and passing through Greenwich, England.	Integers 0-180
Column	20	Station	ABSOLUTE_LOCATION_POINT	TSMALP	GPS_LONG_MIN_MSR	Number	6,4	Null	The measure of the minutes portion of longitude (00 to 59.9999 minutes), indicating angular distance West or East of the prime meridian.	Decimal number, 0-59.9999
Column	21	Station	ABSOLUTE_LOCATION_POINT	TSMALP	LAT_MINUTE_MSR	Number	2	Not Null	The measure of the minutes portion of latitude (00 to 59 minutes), indicating angular distance North or South of the equator.	Integers 0-59
Column	22	Station	ABSOLUTE_LOCATION_POINT	TSMALP	LAT_SECOND_MSR	Number	6,4	Not Null	The measure of the seconds portion of a latitude measurement (0 to 59.9999 seconds), indicating angular distances North and South of the equator.	Decimal number, 0-59.9999
Column	23	Station	ABSOLUTE_LOCATION_POINT	TSMALP	LONG_DIRECTION	Char	1	Not Null	The direction of the longitude measurement. East denotes a positive value of the longitude. West denotes a negative value.	E (East), W (West)

Column	24	Station	ABSOLUTE_LOCATION_POINT	TSMALP	LONG_DEGREE_MSR	Number	3	Not Null	The measure of the degree portion of longitude (000 to 180 degrees), indicating angular distance West or East of the prime meridian drawn from pole to pole around the Earth and passing through Greenwich, England.	Integers 0-180
Column	25	Station	ABSOLUTE_LOCATION_POINT	TSMALP	LONG_MINUTE_MSR	Number	2	Not Null	The measure of the minutes portion of longitude (00 to 59 minutes), indicating angular distance West or East of the prime meridian.	Integers 0-59
Column	26	Station	ABSOLUTE_LOCATION_POINT	TSMALP	LONG_SECOND_MSR	Number	6,4	Not Null	The measure of the seconds portion of longitude (00 to 59.9999 seconds), indicating angular distance west or east of the prime meridian.	Decimal number, 0-59.9999
Column	27	Station	ABSOLUTE_LOCATION_POINT	TSMALP	LAT_DEC_DEG_MSR	Number	9,7	Null	The measure of latitude in decimal degrees (-90.0 to 90.0), indicating angular distance North or South of the equator.	Signed decimal number, -90.0 to 90.0.
Column	28	Station	ABSOLUTE_LOCATION_POINT	TSMALP	LONG_DEC_DEG_MSR	Number	10,7	Null	The measure of longitude in decimal degrees (-180.0 to 180.0) indicating angular distance west or east of the prime meridian.	Signed decimal number, -180.0 to 180.0.
Column	29	Station	ABSOLUTE_LOCATION_POINT	TSMALP	LAT_LONG_MSR_DT	Date	8	Null	The date (in format MM-DD-YYYY) when the latitude and longitude were determined.	
Column	30	Station	ABSOLUTE_LOCATION_POINT	TSMALP	RF3_RIVER_REACH_CD	Char	12	Null	The code for the RF3 reach to which the station is associated. FIELD NOT IN USE.	
Column	31	Station	ABSOLUTE_LOCATION_POINT	TSMALP	RF1_MILEAGE	Number	5,2	Null	The upstream mileage from the downstream end of the associated RF1 River Reach segment to the site being described. The mileage measure may not be greater than the total mileage of the associated RF1 River Reach segment. (If the total mileage is missing in the RF1 River Reach do not enforce that rule.)	0-999.99
Column	32	Station	ABSOLUTE_LOCATION_POINT	TSMALP	ON_RIVER_REACH_IND	Char	1	Null	The code that indicates whether the locational point is on the RF1 River Reach segment or off. A point which is off the segment may still be associated with the segment, e.g. on a tributary to the reach, or in the drainage area of the reach. (If RF1 Mileage Measure is input, this is mandatory. Otherwise, it is optional.)	Y (Yes, on reach), N (No, off reach).
Column	33	Station	ABSOLUTE_LOCATION_POINT	TSMALP	NRCS_WTRSD_ID_NUM	Char	8	Null	The identification number of the USDA Natural Resources Conservation Service watershed for the Station. Concatenated to the 8 digit HUC. Colloquially known as "HUC-14" when 6 digits are supplied.	
Column	34	Station	ABSOLUTE_LOCATION_POINT	TSMALP	HORIZ_ACCURACY_MSR	Char	11	Null	User-supplied number or other indicator of the accuracy with which the latitude and longitude have been determined.	
Column	35	Station	ABSOLUTE_LOCATION_POINT	TSMALP	HORIZ_ACCUR_UNIT	Char	2	Null	The units in which the horizontal accuracy is reported.	Ft (feet), m (meters).
Column	36	Station	ABSOLUTE_LOCATION_POINT	TSMALP	VERT_ACCURACY_MSR	Char	11	Null	User-supplied number or other indicator of the accuracy with which the elevation has been determined.	
Column	37	Station	ABSOLUTE_LOCATION_POINT	TSMALP	VERT_ACCURACY_UNIT	Char	2	Null	The units in which the vertical accuracy is reported.	Ft (feet), m (meters).
Column	38	Station	ABSOLUTE_LOCATION_POINT	TSMALP	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	39	Station	ABSOLUTE_LOCATION_POINT	TSMALP	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	40	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMSTATN_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMSTATN.	
FK Column	41	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMSTATN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMSTATN implements "One station's permanent grid may have many (actually only one) absolute location points."	Key must pre-exist in TSMSTATN.
FK Column	42	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMRRR_IS_NUMBER	Number	12,0	Null	The foreign key to TSMRRR implements "One RF-1 River Reach may have many absolute location points."	Key must pre-exist in TSMRRR.

FK Column	43	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMRRR_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMRRR.	
FK Column	44	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMFPU_IS_NUMBER	Number	12,0	Null	The foreign key to TSMFPU implements "One FIPS Hydrologic Unit may have many absolute location points."	Key must preexist in TSMFPU.
FK Column	45	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMFPU_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMFPU.	
FK Column	46	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMSTATN0IS_NUMBER	Number	12,0	Null	The foreign key to TSMSTATN implements "One station may have many absolute location points."	Key must pre-exist in TSMSTATN.
FK Column	47	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMSTATN0ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMSTATN.	
FK Column	48	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMPIPE_IS_NUMBER	Number	12,0	Null	The foreign key to TSMPIPE implements "One pipe may have many absolute location points."	Key must pre-exist in TSMPIPE.
FK Column	49	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMPIPE_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPIPE.	
FK Column	50	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMWELL_IS_NUMBER	Number	12,0	Null	The foreign key to TSMWELL implements "One Well may have many absolute location points."	Key must pre-exist in TSMWELL.
FK Column	51	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMWELL_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMWELL.	
FK Column	52	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMSTATN1ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMSTATN.	
FK Column	53	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMSTATN1IS_NUMBER	Number	12,0	Null	The foreign key to TSMSTATN implements "One station's permanent transect may have many absolute location points."	Key must pre-exist in TSMSTATN.
FK Column	54	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMGEOPA_IS_NUMBER	Number	12,0	Null	The foreign key to TSMGEOPA implements "One county may be the primary County for many Stations."	Key must pre-exist in TSMGEOPA.
FK Column	55	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMGEOPA_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMGEOPA	
FK Column	56	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMGEOPA0IS_NUMBER	Number	12,0	Null	The foreign key to TSMGEOPA implements "One county may be the secondary County for many Stations."	Key must pre-exist in TSMGEOPA.
FK Column	57	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMGEOPA0ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMGEOPA	
FK Column	58	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMNAL_CD	Char	5	Null	The foreign key to TSMNAL implements "One Native American Land may have many absolute location points."	Key must pre-exist in TSMNAL.
FK Column	59	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMNAL_STATE	Char	2	Null	The State Code portion of the foreign key too TSMNAL.	Valid values are stored in table TSMGEOPA.
FK Column	60	Station	ABSOLUTE_LOCATION_POINT	TSMALP	TSMNAL_ORG_ID	Char	8	Null	The TSMORGAN portion of the key to TSMNAL.	Valid values are stored in table TSMORGAN.

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	TSMBLOB				This table holds the content of the Binary Large Objects (BLOBs) placed in STORET as documents or graphical objects associated with Projects, Results, Stations, Station Visits, Literature Citations, or Operating Periods.	
Column	2	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	TSMBLOB_IS_NUMBER	Number	12	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	
Column	3	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	TSMBLOB_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	
Column	4	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	BLOB_CONTENT	BLOB	4.0 GB	Not Null	The content of this specific BLOB. The BLOB may contain a graphical or textual file of type JPG, BMP, GIF, TXT, or PDF.	
Column	5	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	TABLE_NAME	Char	8	Not Null	The name of the Oracle Table referenced or further described by this BLOB.	
FK Column	6	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	TSMPROJ_IS_NUMBER	Number	12	Null	The foreign key to TSMPROJ implements "One Project may be described by one or more (actually only one) BLOBs." The BLOB may consist of the entire Project Plan Document in PDF format.	Key must pre-exist in TSMPROJ.
FK Column	7	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	TSMPROJ_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPROJ.	
FK Column	8	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	TSRRSULT_IS_NUMBER	Number	12	Null	The foreign key to TSRRSULT implements "One Result may be further described by one or more (actually only one) BLOBs." The BLOB might be a photograph, or a graphic reproduction of a laboratory result (e.g. GCMS Spectrograph).	Key must pre-exist in TSRRSULT.
FK Column	9	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	TSRRSULT_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRRSULT.	
FK Column	10	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	TSMSTATN_IS_NUMBER	Number	12	Null	The foreign key to TSMSTATN implements "One Station may be further described by one or more (actually only one) BLOBs." The BLOB may contain a photograph of the area comprising the monitored site.	Key must pre-exist in TSMSTATN.
FK Column	11	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	TSMSTATN_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMSTATN.	
FK Column	12	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	TSRSTVST_IS_NUMBER	Number	12	Null	The foreign key to TSRSTVST implements "One Station Visit may be further described by one or more (actually only one) BLOBs." The BLOB may contain a photograph obtained during the visit.	Key must pre-exist in TSRSTVST.
FK Column	13	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	TSRSTVST_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRSTVST.	
FK Column	14	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	TSRCITN_IS_NUMBER	Number	12	Null	The foreign key to TSRCITN implements "One Literature Citation may be further described by one or more (actually only one) BLOBs." The BLOB may contain the entire document being cited.	Key must pre-exist in TSRCITN.
FK Column	15	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	TSRCITN_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRCITN.	
FK Column	16	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	TSROPFRD_IS_NUMBER	Number	12	Null	The foreign key to TSROPFRD implements "One Operating Period may be alternatively described by one or more (actually only one) BLOBs."	Key must pre-exist in TSROPFRD.
FK Column	17	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	TSROPFRD_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSROPFRD.	
FK Column	18	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	TSRFDCT_IS_NUMBER	Number	12	Null	The foreign key to TSRFDCT implements "One Field Activity may be alternatively described by one or more (actually only one) BLOBs."	Key must pre-exist in TSRFDCT.
FK Column	19	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	TSRFDCT_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRFDCT.	

Column	20	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	21	DBA	BINARY_LARGE_OBJECTS	TSMBLOB	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	



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Table	1	Organization	COOPERATING_ORGANIZATION	TSMCPORG	TSMCPORG				For the purposes of this database: A Cooperating Organization is a State, Federal, local, academic, commercial, or other group which works with or provides funding for a data-owning Organization. Types of work that may be performed by a Cooperating Organization include: <ul style="list-style-type: none"> <li>- field sample collection</li> <li>- taxonomic identification</li> <li>- funding</li> <li>- laboratory analysis</li> <li>- logistical support</li> <li>- any other tasks in support of the activities or operations of the data-owning organization.</li> </ul>	
Column	2	Organization	COOPERATING_ORGANIZATION	TSMCPORG	TSMCPORG_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Organization	COOPERATING_ORGANIZATION	TSMCPORG	TSMCPORG_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Organization	COOPERATING_ORGANIZATION	TSMCPORG	NAME	Varchar2	60	Not Null	The formal full-length name of the Cooperating Organization. Example: University of Hawaii	Free text.
Column	5	Organization	COOPERATING_ORGANIZATION	TSMCPORG	POC_NAME	Varchar2	30	Null	The name of the point of contact for the Cooperating Organization who has knowledge of the relationship between the Cooperating Organization and the data-owning Organization.	Free text.
Column	6	Organization	COOPERATING_ORGANIZATION	TSMCPORG	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Organization	COOPERATING_ORGANIZATION	TSMCPORG	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	8	Organization	COOPERATING_ORGANIZATION	TSMCPORG	TSMORGAN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMORGAN implements "One Organization may have many Cooperating Organizations."	Key must pre-exist in TSMORGAN.

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Well	CASING	TSMCSNG	TSMCSNG				A liner placed in a borehole to prevent entry of loose rock, gas, or liquid into the borehole or to prevent loss of circulation liquid into porous, cavernous, or crevassed ground. Liners may be constructed of sections of tubing fastened or screwed together, or concrete poured in place.	
FK Column	2	Station - Well	CASING	TSMCSNG	TSMINTVL_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMINTVL implements "One Interval may be described by one or more Casings."	Key must pre-exist in TSMINTVL.
FK Column	3	Station - Well	CASING	TSMCSNG	TSMINTVL_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMINTVL	
Column	4	Station - Well	CASING	TSMCSNG	TYPE_CODE	Varchar2	24	Not Null	The code that represents the material from which a Well casing is made.	Valid values are found in table TSMPRMVL where TABLE_NAME='TSMCSNG' and FIELD_NAME='TYPE_CODE'.
Column	5	Station - Well	CASING	TSMCSNG	THICKNESS_MSR	Number	6,3	Null	The measure of the thickness of the casing material used for a Well interval in centimeters, feet, inches, and meters.	Decimal number, 0-99.999
Column	6	Station - Well	CASING	TSMCSNG	THICKNESS_UNT_CD	Char	3	Null	The code that represents the units in which the thickness of the casing material for a Well interval is expressed.	cm -- CENTIMETERS; in -- INCHES; mm -- MILLIMETERS; <spaces>
Column	7	Station - Well	CASING	TSMCSNG	INSD_DIAMTR_MSR	Number	5,2	Null	The measure of the diameter inside the casing in a Well interval expressed in centimeters, feet, inches, meters, or millimeters.	Decimal number, 0-99.99
Column	8	Station - Well	CASING	TSMCSNG	INSD_DIAMTR_UNT_CD	Char	3	Null	The code that represents the units in which the inside casing diameter in a Well interval is expressed.	mm -- MILLIMETERS; cm -- CENTIMETERS; m -- METERS; in -- INCHES; ft -- FEET; <spaces>
Column	9	Station - Well	CASING	TSMCSNG	OUTSIDE_DIAMTR_MSR	Number	5,2	Null	The measure of the diameter outside the casing in a Well interval expressed in centimeters, feet, inches, meters, or millimeters.	Decimal number, 0-99.99
Column	10	Station - Well	CASING	TSMCSNG	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	11	Station - Well	CASING	TSMCSNG	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Organization	ELECTRONIC_ADDRESS	TSMEADDR	TSMEADDR				The phone numbers, fax numbers, and E-MAIL addresses for an Organization or an individual.	
Column	2	Organization	ELECTRONIC_ADDRESS	TSMEADDR	TSMEADDR_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Organization	ELECTRONIC_ADDRESS	TSMEADDR	TSMEADDR_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Organization	ELECTRONIC_ADDRESS	TSMEADDR	TYPE_CODE	Char	18	Not Null	The code designating the type of Electronic Address.	Fax -- A telephone number linked to a device capable of transmitting document facsimiles (faxes); Phone -- Telephone number of a standard voice connection to the individual or organization; Internet -- An internet address such as an email address or a Universal Resource Locator (URL) or an FTP (File Transfer Protocol) site address; Commercial Network -- An email address associated with a commercial network such as CompuServe or America Online; Other -- Any other kind of electronic address. Use comments to further describe;
Column	5	Organization	ELECTRONIC_ADDRESS	TSMEADDR	ADDRESS_TEXT	Varchar2	60	Not Null	Text or codes which are used to specify an Electronic Address for an Organization or an individual.	Examples: Manning.Lee@EPAMAIL.EPA.GOV; http://www.epa.gov/storet
Column	6	Organization	ELECTRONIC_ADDRESS	TSMEADDR	COMMENT_TEXT	Varchar2	40	Null	The text that further clarifies the Electronic Address type. For example, if the Electronic Address type is a commercial network, then the comment text should define the type such as America Online.	Free text.
Column	7	Organization	ELECTRONIC_ADDRESS	TSMEADDR	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	8	Organization	ELECTRONIC_ADDRESS	TSMEADDR	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	9	Organization	ELECTRONIC_ADDRESS	TSMEADDR	TSMSTATN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMSTATN implements "One Station may have one or more electronic Addreseses."	Key must pre-exist in TSMSTATN.
FK Column	10	Organization	ELECTRONIC_ADDRESS	TSMEADDR	TSMSTATN_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMSTATN.	
FK Column	11	Organization	ELECTRONIC_ADDRESS	TSMEADDR	TSMORGAN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMORGAN implements "One Organization may have many electronic addresses."	Key must pre-exist in TSMORGAN.
FK Column	12	Organization	ELECTRONIC_ADDRESS	TSMEADDR	TSMPEPNS_IS_NUMBER	Number	12,0	Null	The foreign key to TSMPEPNS implements "One Person may have many Electronic Addresses."	Key must pre-exist in TSMPEPNS.
FK Column	13	Organization	ELECTRONIC_ADDRESS	TSMEADDR	TSMPEPNS_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPEPNS.	
FK Column	14	Organization	ELECTRONIC_ADDRESS	TSMEADDR	TSMCPORG_IS_NUMBER	Number	12,0	Null	The foreign key to TSMCPORG implements "One Cooperating Organization may have many Electronic Addresses."	Key must pre-exist in TSMCPORG.
FK Column	15	Organization	ELECTRONIC_ADDRESS	TSMEADDR	TSMCPORG_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMCPORG.	
FK Column	16	Organization	ELECTRONIC_ADDRESS	TSMEADDR	TSRLAB_IS_NUMBER	Number	12,0	Null	The foreign key to TSRLAB implements "One Laboratory may have many Electronic Addresses."	Key must pre-exist in TSRLAB.
FK Column	17	Organization	ELECTRONIC_ADDRESS	TSMEADDR	TSRLAB_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRLAB.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	DBA	ENTITY_INTERNAL_SYSTEM_NUMBER	TSMEISN	TSMEISN				This entity supports internal system activities associated with updates. This table contains the identity of every system entity(table) and the next available internal system number (ISN) for each organization that can add a row to that entity(table).	
Column	2	DBA	ENTITY_INTERNAL_SYSTEM_NUMBER	TSMEISN	TSMEISN_NAME	Char	8	Not Null	The name of the table whose next available Internal Sequence Number is held in this row.	
Column	3	DBA	ENTITY_INTERNAL_SYSTEM_NUMBER	TSMEISN	TSMEISN_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the identifier for the rows in the table being controlled.	
Column	4	DBA	ENTITY_INTERNAL_SYSTEM_NUMBER	TSMEISN	IS_NUMBER	Number	12,0	Not Null	The next internal system number to utilize for a create action.	
Column	5	DBA	ENTITY_INTERNAL_SYSTEM_NUMBER	TSMEISN	TABLE_VERSION	Char	12	Null	A coded text string indicating the version level of the table referenced by this row.	
Column	6	DBA	ENTITY_INTERNAL_SYSTEM_NUMBER	TSMEISN	V_USERID_CODE	Char	8	Null	A code that identifies the specific person replacing the table with a newer version.	
Column	7	DBA	ENTITY_INTERNAL_SYSTEM_NUMBER	TSMEISN	V_LAST_UPDATE_TS	Date	20	Null	A system-generated value that represents the calendar date and time on which this table was replaced with a newer version.	
Column	8	DBA	ENTITY_INTERNAL_SYSTEM_NUMBER	TSMEISN	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	9	DBA	ENTITY_INTERNAL_SYSTEM_NUMBER	TSMEISN	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	DBA	ERROR_MESSAGES	TSMERMSG	TSMERMSG				This table holds all information, warning, and error messages used by STORET error handling procedure.	
Column	2	DBA	ERROR_MESSAGES	TSMERMSG	TSMERMSG_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	DBA	ERROR_MESSAGES	TSMERMSG	TSMERMSG_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	DBA	ERROR_MESSAGES	TSMERMSG	MESSAGE_ID	Char	6	Not Null	A unique cryptic ID code assigned during development as a cross-reference key for each error message.	
Column	5	DBA	ERROR_MESSAGES	TSMERMSG	MESSAGE_TEXT	Varchar2	254	Not Null	A brief textual description of the error condition represented by this record.	
Column	6	DBA	ERROR_MESSAGES	TSMERMSG	DESCRIPTION_TEXT	Long	4000	Null	A detailed textual description of the nature of the error being identified and any information helpful to the individual trying to interpret the problem.	
Column	7	DBA	ERROR_MESSAGES	TSMERMSG	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	8	DBA	ERROR_MESSAGES	TSMERMSG	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station	EXTERNAL_REFERENCE_SCHEME	TSMERS	TSMERS				A scheme, method, or plan that creates alternate references or provides supplemental information to identify or reference Stations.	
Column	2	Station	EXTERNAL_REFERENCE_SCHEME	TSMERS	TSMERS_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Station	EXTERNAL_REFERENCE_SCHEME	TSMERS	TSMERS_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station	EXTERNAL_REFERENCE_SCHEME	TSMERS	ACRONYM	Char	8	Not Null	The abbreviation or acronym by which this scheme is commonly known. For example, if the reference is to the National Pollution Discharge Elimination System the acronym is NPDES.	
Column	5	Station	EXTERNAL_REFERENCE_SCHEME	TSMERS	NAME	Varchar2	60	Not Null	The name of the external reference scheme in which the Station participates.	Examples: 1) National Pollution Discharge Elimination System/ 2) Environmental Monitoring and Assessment Program; 3) Illinois Well Number scheme/ 4) Florida Land Grant; 5) USGS well number
Column	6	Station	EXTERNAL_REFERENCE_SCHEME	TSMERS	DESCRIPTION_TEXT	Varchar2	254	Null	The text that provides detailed information about how Stations are numbered or otherwise identified using a stated external reference scheme.	
Column	7	Station	EXTERNAL_REFERENCE_SCHEME	TSMERS	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	8	Station	EXTERNAL_REFERENCE_SCHEME	TSMERS	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	9	Station	EXTERNAL_REFERENCE_SCHEME	TSMERS	TSMORGAN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMORGAN implements "One Organization may have many External Reference Schemes."	Key must pre-exist in TSMORGAN.

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station	ESTUARY_LOCATION	TSMESTLC	TSMESTLC				The location of a station that is in an Estuary, and additional details concerning its description. An Estuary is a semi-enclosed coastal body of water which has a free connection with the open sea and with in which sea water is measurably diluted with fresh water.	
FK Column	2	Station	ESTUARY_LOCATION	TSMESTLC	TSMALP_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMALP implements "One Absolute Location Point may have many Estuary Locations.	Key must pre-exist in TSMALP.
FK Column	3	Station	ESTUARY_LOCATION	TSMESTLC	TSMALP_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMALP.	
Column	4	Station	ESTUARY_LOCATION	TSMESTLC	OTHER_ESTUARY_NAME	Varchar2	30	Null	The other/local name of the Estuary. Permits user to assign an alternate name to the estuary. When estuary is selected as "OTHER", this is the primary name.	
Column	5	Station	ESTUARY_LOCATION	TSMESTLC	ADDTNL_LOC_NAME	Varchar2	30	Null	Additional and more specific information concerning the region of the Estuary in which the Station is located.	
Column	6	Station	ESTUARY_LOCATION	TSMESTLC	SHORE_DISTANCE	Number	6,2	Null	The distance from the Station to a reference point located on or near the shore.	Decimal number, 0-9999.99
Column	7	Station	ESTUARY_LOCATION	TSMESTLC	SHORE_DIST_UNIT_CD	Char	3	Null	The units in which the distance to shore is expressed.	nmi (Nautical Miles); mi (Miles); m (Meters); km (Kilometers); ft (Feet); <Spaces>
Column	8	Station	ESTUARY_LOCATION	TSMESTLC	REFERENCE_PT	Varchar2	30	Null	The name or description of the reference point located on or near the shore to which the distance from the Station is measured.	
Column	9	Station	ESTUARY_LOCATION	TSMESTLC	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	10	Station	ESTUARY_LOCATION	TSMESTLC	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	11	Station	ESTUARY_LOCATION	TSMESTLC	TSMESTRY_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMESTRY.	
FK Column	12	Station	ESTUARY_LOCATION	TSMESTLC	TSMESTRY_IS_NUMBER	Number	12,0	Null	The foreign key to TSMESTRY implements "One Estuary may have many secondary Estuaries within it."	Key must pre-exist in TSMESTRY.

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station	ESTUARY	TSMESTRY	TSMESTRY				A semi-enclosed coastal body of water which has a free connection with the open sea and within which sea water is measurably diluted with fresh water. For purposes of this database, an estuary is bounded on the ocean side by the U.S. Department of State Continental Base Line, from which the 12-mile limit for the Territorial Sea and the 200-mile limit of the Exclusive Economic Zone (EEZ) are measured oceanward.	
Column	2	Station	ESTUARY	TSMESTRY	TSMESTRY_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Station	ESTUARY	TSMESTRY	TSMESTRY_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station	ESTUARY	TSMESTRY	NAME	Varchar2	30	Not Null	The name of the Estuary.	
Column	5	Station	ESTUARY	TSMESTRY	COUNTRY_CODE	Char	2	Not Null	The code for the country in an Address.	US (United States); MX (Mexico); CN (Canada); <Spaces>
Column	6	Station	ESTUARY	TSMESTRY	STATE_PROVINCE_NAME	Varchar2	40	Not Null	The state name or province name where the estuary resides.	Valid values are found in table TSMGEOPA.
Column	7	Station	ESTUARY	TSMESTRY	PRIMARY_INDICATOR	Char	1	Not Null	The code that indicates whether the estuary is a "primary" estuary ("Y") or a "secondary" estuary ("N").	Y(Yes), N(No).
Column	8	Station	ESTUARY	TSMESTRY	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	9	Station	ESTUARY	TSMESTRY	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	10	Station	ESTUARY	TSMESTRY	TSMESTRYOORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMESTRY.	
FK Column	11	Station	ESTUARY	TSMESTRY	TSMESTRYOIS_NUMBER	Number	12,0	Null	The foreign key to TSMESTRY implements "One Primary Estuary may have one or more Secondary Estuaries."	Key must pre-exist in TSMESTRY.



Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station	FACILITY_STATION	TSMFCLTY	TSMFCLTY				A Station which is considered by its owner to be a Facility.	
FK Column	2	Station	FACILITY_STATION	TSMFCLTY	TSMSTATN_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMSTATN implements "One Station may be further defined as one or more Facility Stations."	
FK Column	3	Station	FACILITY_STATION	TSMFCLTY	TSMSTATN_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMSTATN.	
Column	4	Station	FACILITY_STATION	TSMFCLTY	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	5	Station	FACILITY_STATION	TSMFCLTY	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station	FIPS_HYDROLOGIC_UNIT	TSMFHU	TSMFHU				The Federal Information Processing Standard (FIPS) information for Hydrologic Units, as defined in FIPS Publication 103. For purposes of implementation, STORET has determined lat/long max/min locations which bound the Hydrologic Unit. A hydrologic unit is a contiguous drainage basin, as defined by the United States Geological Survey, and as documented in FIPS Pub. 103.	
Column	2	Station	FIPS_HYDROLOGIC_UNIT	TSMFHU	TSMFHU_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Station	FIPS_HYDROLOGIC_UNIT	TSMFHU	TSMFHU_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station	FIPS_HYDROLOGIC_UNIT	TSMFHU	HYDROLOGIC_UNIT_CD	Char	8	Not Null	The Federal Information Processing Standard (FIPS) code for Hydrologic Units, as defined in FIPS Publication 103.	
Column	5	Station	FIPS_HYDROLOGIC_UNIT	TSMFHU	TYPE_CODE	Varchar2	7	Not Null	The type or level of the Hydrologic Unit Code.	REGION (2-digit Region Identifier); SUBREGN (4-digit Subregion Identifier); ACCUNIT (6-digit Accounting Unit Identifier); CATUNIT (8-digit Cataloging Unit Identifier).
Column	6	Station	FIPS_HYDROLOGIC_UNIT	TSMFHU	NAME	Varchar2	200	Null	The Federal Information Processing Standard (FIPS) name associated with code established for Hydrologic Units, as defined in FIPS Publication 103.	
Column	7	Station	FIPS_HYDROLOGIC_UNIT	TSMFHU	STATES_NAME	Char	16	Null	The State Postal Codes, separated by commas, of the states traversed by the Hydrologic Unit or Drainage Basin.	Valid values for State Postal Codes are found in table TSMGEOPA.
Column	8	Station	FIPS_HYDROLOGIC_UNIT	TSMFHU	LAT_MAX_DEGREE	Number	14,4	Null	The maximum latitude, in signed decimal degrees, of any point in the HUC.	-90.0 to 90.0
Column	9	Station	FIPS_HYDROLOGIC_UNIT	TSMFHU	LAT_MIN_DEGREE	Number	14,4	Null	The minimum latitude, in signed decimal degrees, of any point in the HUC.	-90.0 to 90.0
Column	10	Station	FIPS_HYDROLOGIC_UNIT	TSMFHU	LONG_MAX_DEGREE	Number	14,4	Null	The maximum longitude, in signed decimal degrees, of any point in the HUC.	-180.0 to 180.0
Column	11	Station	FIPS_HYDROLOGIC_UNIT	TSMFHU	LONG_MIN_DEGREE	Number	14,4	Null	The minimum longitude, in signed decimal degrees, of any point in the HUC.	-180.0 to 180.0
Column	12	Station	FIPS_HYDROLOGIC_UNIT	TSMFHU	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	13	Station	FIPS_HYDROLOGIC_UNIT	TSMFHU	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Well	FILL	TSMFILL	TSMFILL				The material placed in the area between a Casing and a borehole in order to prevent fluid migration between permeable zones and to support the casing.	
FK Column	2	Station - Well	FILL	TSMFILL	TSMINTVL_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMINTVL implements "One Interval may be described by one or more Fills."	The key must pre-exist in TSMINTVL.
FK Column	3	Station - Well	FILL	TSMFILL	TSMINTVL_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMINTVL.	
Column	4	Station - Well	FILL	TSMFILL	MATERIAL_TYPE_CD	Varchar2	20	Not Null	The code that identifies the type of material used as fill for a Well interval.	Valid values are found in table TSMPRMVL where TABLE_NAME='TSMFILL' and FIELD_NAME='MATERIAL_TYPE_CODE'.
Column	5	Station - Well	FILL	TSMFILL	VOLUME_MSR	Number	7,3	Null	The measure of the volume of the Fill for a Well interval in cubic yards, cubic feet or cubic meters.	0-9999.999
Column	6	Station - Well	FILL	TSMFILL	VOLUME_UNIT_CODE	Char	10	Null	The code that represents the units in which the volume of fill in a Well interval is expressed.	Ft3; m3; yd3; <Spaces>
Column	7	Station - Well	FILL	TSMFILL	THICKNESS_MSR	Number	6,3	Null	The measure of the thickness of the Fill for a Well interval expressed in centimeters or inches.	
Column	8	Station - Well	FILL	TSMFILL	THICKNESS_UNT_CD	Char	3	Null	The code that represents the units in which the thickness of the fill for a Well interval is expressed.	cm (CENTIMETERS); in (INCHES); <Spaces>
Column	9	Station - Well	FILL	TSMFILL	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	10	Station - Well	FILL	TSMFILL	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Facility	FACILITY_NAICS_ASSIGNMENT	TSMFNA	TSMFNA				The North American Industrial Classification System (NAICS) is the replacement for the legacy Standard Industrial Classification (SIC) code. This entity captures all NAICS codes which are associated with a Facility Station.	
FK Column	2	Station - Facility	FACILITY_NAICS_ASSIGNMENT	TSMFNA	TSMSTATN_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMSTATN implements "One Facility Station may have one or more NAICS codes."	The key must pre-exist in TSMSTATN.
FK Column	3	Station - Facility	FACILITY_NAICS_ASSIGNMENT	TSMFNA	TSMSTATN_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMSTATN.	
FK Column	4	Station - Facility	FACILITY_NAICS_ASSIGNMENT	TSMFNA	TSMNAICS_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMNAICS implements "One NAICS Code may be assigned to one or more Stations."	The key must pre-exist in TSMNAICS.
FK Column	5	Station - Facility	FACILITY_NAICS_ASSIGNMENT	TSMFNA	TSMNAICS_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMNAICS.	
Column	6	Station - Facility	FACILITY_NAICS_ASSIGNMENT	TSMFNA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Station - Facility	FACILITY_NAICS_ASSIGNMENT	TSMFNA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Facility	FACILITY_SIC_ASSIGNMENT	TSMFSA	TSMFSA				The Standard Industrial Classification code (SIC) is the statistical classification standard underlying all establishment-based Federal economic statistics classified by industry. This entity captures all SICs which are associated with a Facility Station.	
FK Column	2	Station - Facility	FACILITY_SIC_ASSIGNMENT	TSMFSA	TSMSTATN_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMSTATN implements "One Station may have one or more SIC Codes."	The key must pre-exist in TSMSTATN.
FK Column	3	Station - Facility	FACILITY_SIC_ASSIGNMENT	TSMFSA	TSMSTATN_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMSTATN.	
FK Column	4	Station - Facility	FACILITY_SIC_ASSIGNMENT	TSMFSA	TSMISIC_CODE	Char	4	Not Null	The foreign key to TSMISIC implements "One SIC Code may describe one or more Stations."	The key must pre-exist in TSMISIC.
FK Column	5	Station - Facility	FACILITY_SIC_ASSIGNMENT	TSMFSA	TSMISIC_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMISIC.	
Column	6	Station - Facility	FACILITY_SIC_ASSIGNMENT	TSMFSA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Station - Facility	FACILITY_SIC_ASSIGNMENT	TSMFSA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station	GEOPOLITICAL_AREA	TSMGEOPA	TSMGEOPA				A political or administratively constructed area representing a jurisdictional or regulatory area, e.g. state, province, county. For purposes of implementation, STORET has determined lat/long max/min locations which bound the Geopolitical Area. For an individual state or province, indicator codes specify whether the state/province has coastline continuous with an ocean or a Great Lake.	
Column	2	Station	GEOPOLITICAL_AREA	TSMGEOPA	TSMGEOPA_IS_NUMBER	Number	12,0	Not Null	A system-generated value.	Integer non-intelligent key.
Column	3	Station	GEOPOLITICAL_AREA	TSMGEOPA	TSMGEOPA_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station	GEOPOLITICAL_AREA	TSMGEOPA	LAT_MIN_DEGREE	Number	14,4	Null	The minimum latitude associated with the boundary for a County, State, Province, or other Geopolitical area. Used internally to assist in searching for states, provinces, and counties which match a given latitude/longitude point.	-90.0 to 90.0
Column	5	Station	GEOPOLITICAL_AREA	TSMGEOPA	LAT_MAX_DEGREE	Number	14,4	Null	The maximum latitude, in signed decimal degrees, of any point in the County, State, Province, or other Geopolitical area.	-90.0 to 90.0
Column	6	Station	GEOPOLITICAL_AREA	TSMGEOPA	LONG_MIN_DEGREE	Number	14,4	Null	The minimum longitude, in signed decimal degrees, of any point in the County, State, Province, or other Geopolitical area.	-180.0 to 180.0
Column	7	Station	GEOPOLITICAL_AREA	TSMGEOPA	LONG_MAX_DEGREE	Number	14,4	Null	The maximum longitude, in signed decimal degrees, of any point in the County, State, Province, or other Geopolitical area.	-180.0 to 180.0
Column	8	Station	GEOPOLITICAL_AREA	TSMGEOPA	FIPS_COUNTY_CODE	Char	3	Null	The 3-character Federal Information Processing Standard (FIPS) code representing the county or county equivalent (when applicable).	Integer, 0-999.
Column	9	Station	GEOPOLITICAL_AREA	TSMGEOPA	COUNTY_NAME	Varchar2	25	Null	The name of the county or county equivalent (when applicable).	
Column	10	Station	GEOPOLITICAL_AREA	TSMGEOPA	STATE_FIPS_CODE	Char	2	Not Null	The 2-character Federal Information Processing Standard (FIPS) code representing the State, Province, or equivalent.	Integer, 0-99.
Column	11	Station	GEOPOLITICAL_AREA	TSMGEOPA	STATE_NAME	Varchar2	21	Not Null	The name of the State, Province, or equivalent.	
Column	12	Station	GEOPOLITICAL_AREA	TSMGEOPA	STATE_POSTAL_CODE	Char	2	Null	The official USPS 2-character postal abbreviation for the State, Province, or equivalent.	
Column	13	Station	GEOPOLITICAL_AREA	TSMGEOPA	COUNTRY_CODE	Char	2	Not Null	The 2-character Federal Information Processing Standard (FIPS) code (ref FIPS Pub 10-3) representing the Country.	US (UNITED STATES OF AMERICA); MX (MEXICO); CN (CANADA); <Spaces>
Column	14	Station	GEOPOLITICAL_AREA	TSMGEOPA	COUNTRY_NAME	Char	13	Not Null	The name of the Country.	
Column	15	Station	GEOPOLITICAL_AREA	TSMGEOPA	COASTAL_IND_CD	Char	1	Not Null	A code indicating whether or not the county is a coastal county. A coastal county borders the ocean.	Y (yes), N (no)
Column	16	Station	GEOPOLITICAL_AREA	TSMGEOPA	GREAT_LAKE_IND_CD	Char	1	Not Null	A code indicating whether or not the county boundary borders one of the Great Lakes.	Y (yes), N (no)
Column	17	Station	GEOPOLITICAL_AREA	TSMGEOPA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	18	Station	GEOPOLITICAL_AREA	TSMGEOPA	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Well	GEOLOGIC_UNIT	TSMGEOUN	TSMGEOUN				The name of a stratum characterized by consolidated or unconsolidated rock containing a degree of lithologic homogeneity. Geologic Units are linked to individual well intervals (table TSMINTVL) to describe geologic layers through which the well has been drilled. Water-bearing geologic units are commonly called "aquifers". This table defines the domain of valid codes and names for geologic units as defined by USGS.	
Column	2	Station - Well	GEOLOGIC_UNIT	TSMGEOUN	TSMGEOUN_CD	Char	12	Not Null	The official USGS NWIS II code which identifies the Geologic Unit.	
Column	3	Station - Well	GEOLOGIC_UNIT	TSMGEOUN	TSMGEOUN_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station - Well	GEOLOGIC_UNIT	TSMGEOUN	TYPE_CODE	Char	1	Not Null	The code that denotes whether the Geologic Unit (in the identified state) is water-bearing, ie. an aquifer, or not.	H (Hydrogeologic. This geologic formation is water-bearing (an aquifer) in this State.); G (Geologic. This formation is non-water-bearing (geologic only) in this state.); B (Both Hydrogeologic and Geologic. This formation is sometimes water-bearing and sometimes not, in this State.)
Column	5	Station - Well	GEOLOGIC_UNIT	TSMGEOUN	STATE_CODE	Char	2	Not Null	The Postal Abbreviation code of a State under which the Geologic Unit lies. The same Geologic Unit may extend under several States. It may be water-bearing (an aquifer) in some States, but not all.	Valid State Postal Codes are found in table TSMGEOPA.
Column	6	Station - Well	GEOLOGIC_UNIT	TSMGEOUN	NAME	Varchar2	80	Not Null	The official USGS NWIS II name which identifies the Geologic Unit.	
Column	7	Station - Well	GEOLOGIC_UNIT	TSMGEOUN	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	8	Station - Well	GEOLOGIC_UNIT	TSMGEOUN	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station	GREAT_LAKE_LOCATION	TSMGLL	TSMGLL				The location of a Station that is in a Great Lake, and additional details concerning its description. A Great Lake is one of the five fresh water lakes of Central North America on either side of the United States-Canadian boundary: Lake Erie, Lake Huron, Lake Superior, Lake Michigan, and Lake Ontario.	
FK Column	2	Station	GREAT_LAKE_LOCATION	TSMGLL	TSMALP_IS_NUMBER	Number	12,0	Not Null	A system-generated value.	Integer non-intelligent key.
FK Column	3	Station	GREAT_LAKE_LOCATION	TSMGLL	TSMALP_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station	GREAT_LAKE_LOCATION	TSMGLL	NAME	Char	15	Not Null	The name of the Great Lake.	Lake Superior; Lake Michigan; Lake Huron; Lake Erie; Lake Ontario
Column	5	Station	GREAT_LAKE_LOCATION	TSMGLL	ADDITNL_LOC_NAME	Varchar2	30	Null	Additional and more specific information concerning the region of the Great Lake in which the Station is located. EXAMPLE: Great Lake Name = Lake Huron; Additional Location Name = Saginaw Bay	
Column	6	Station	GREAT_LAKE_LOCATION	TSMGLL	SHORE_DISTANCE	Number	6,2	Null	The distance from the Station to a reference point located on or near the shore.	Decimal number, 0 to 9999.99
Column	7	Station	GREAT_LAKE_LOCATION	TSMGLL	SHORE_DIST_UNIT_CD	Char	3	Null	The units in which the distance to shore is expressed.	Ft (Feet); km (Kilometers); m (Meters); mi (Miles); nmi (Nautical Miles); <Spaces>
Column	8	Station	GREAT_LAKE_LOCATION	TSMGLL	REFERENCE_PT	Varchar2	30	Null	The name or description of the reference point located on or near the shore to which the distance from the Station is measured.	
Column	9	Station	GREAT_LAKE_LOCATION	TSMGLL	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	10	Station	GREAT_LAKE_LOCATION	TSMGLL	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	



Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	DBA	GENERIC_TEXT	TSMGNTXT	TSMGNTXT				This table holds long strings of free text, each of which is a value associated with a specific field in another table. Text strings found here include all parts of the Project description, gear specifications, procedure exceptions, and free text results.	
Column	2	DBA	GENERIC_TEXT	TSMGNTXT	TSMGNTXT_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	DBA	GENERIC_TEXT	TSMGNTXT	TSMGNTXT_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	DBA	GENERIC_TEXT	TSMGNTXT	TABLE_NAME	Varchar2	8	Not Null	The table, elsewhere in STORET, to which this particular text is linked.	
Column	5	DBA	GENERIC_TEXT	TSMGNTXT	DESCRIPTION_NAME	Varchar2	8	Not Null	The attribute (or field) name of the specific field in the target table to which this particular text is linked.	
Column	6	DBA	GENERIC_TEXT	TSMGNTXT	DESCRIPTION_TEXT	Long	4000	Not Null	The specific text to be linked to the given table and field.	
Column	7	DBA	GENERIC_TEXT	TSMGNTXT	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	8	DBA	GENERIC_TEXT	TSMGNTXT	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	9	DBA	GENERIC_TEXT	TSMGNTXT	TSRRSULT_IS_NUMBER	Number	12,0	Null	The foreign key to TSRRSULT implements "One Result may have one or more Generic Texts."	Key must pre-exist in TSRRSULT.
FK Column	10	DBA	GENERIC_TEXT	TSMGNTXT	TSRRSULT_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRRSULT.	
FK Column	11	DBA	GENERIC_TEXT	TSMGNTXT	TSMPROJ_IS_NUMBER	Number	12,0	Null	The foreign key to TSMPROJ implements "One Project may have one or more Generic Texts."	Key must pre-exist in TSMPROJ.
FK Column	12	DBA	GENERIC_TEXT	TSMGNTXT	TSMPROJ_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPROJ.	
FK Column	13	DBA	GENERIC_TEXT	TSMGNTXT	TSMPROGM_IS_NUMBER	Number	12,0	Null	The foreign key to TSMPROGM implements "One Program may have one or more Generic Texts."	Key must pre-exist in TSMPROGM.
FK Column	14	DBA	GENERIC_TEXT	TSMGNTXT	TSMPROGM_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPROGM.	
FK Column	15	DBA	GENERIC_TEXT	TSMGNTXT	TSRGRCFG_IS_NUMBER	Number	12,0	Null	The foreign key to TSRGRCFG implements "One Gear Configuration may have one or more Generic Texts."	Key must pre-exist in TSRGRCFG.
FK Column	16	DBA	GENERIC_TEXT	TSMGNTXT	TSRGRCFG_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRGRCFG.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Well	HOLE	TSMHOLE	TSMHOLE				A cavity in the ground constructed for the purpose of creating a Well.	
FK Column	2	Station - Well	HOLE	TSMHOLE	TSMINTVL_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMINTVL implements "One Well Vertical Interval may have one or more Hole Descriptions."	Key must pre-exist in TSMINTVL.
FK Column	3	Station - Well	HOLE	TSMHOLE	TSMINTVL_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMINTVL.	
Column	4	Station - Well	HOLE	TSMHOLE	DIAMETER_MEASURE	Number	5,2	Not Null	The measure of the diameter of the Hole in which the Well is located expressed in centimeters, feet, inches, or meters. The diameter of the Hole is typically greater than the diameter of the Well Casing that resides in the Hole.	
Column	5	Station - Well	HOLE	TSMHOLE	UNIT_CODE	Char	3	Not Null	The units in which the diameter of a Borehole is expressed.	Ft (FEET); m (METERS); cm (CENTIMETERS); in (INCHES); <Spaces>
Column	6	Station - Well	HOLE	TSMHOLE	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Station - Well	HOLE	TSMHOLE	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Well	INTERVAL_GEOL_UNIT_ASGMNT	TSMIGUA	TSMIGUA				This table holds the links or associations between vertical well intervals as described in TSMINTVL, and Geologic Units (sometimes aquifers) found in TSMGEOUN.	
Column	2	Station - Well	INTERVAL_GEOL_UNIT_ASGMNT	TSMIGUA	TSMIGUA_IS_NUMBER	Number	12,0	Not Null	A system-generated value.	Integer non-intelligent key.
Column	3	Station - Well	INTERVAL_GEOL_UNIT_ASGMNT	TSMIGUA	TSMIGUA_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station - Well	INTERVAL_GEOL_UNIT_ASGMNT	TSMIGUA	OTH_GEO_UNIT_NM	Varchar2	60	Null	Another name by which the selected USGS geologic unit may be known within the local or study area.	
Column	5	Station - Well	INTERVAL_GEOL_UNIT_ASGMNT	TSMIGUA	PRIM_AQFR_IND_CD	Char	1	Null	A code indicating whether or not this particular Geologic Unit at this particular Well Interval is the primary aquifer supplying water to the well.	Y (yes); N (no)
Column	6	Station - Well	INTERVAL_GEOL_UNIT_ASGMNT	TSMIGUA	WATER_BEARING_IND	Char	1	Null	A code indicating whether or not this particular Geologic Unit is water-bearing at this particular vertical well interval.	Y (yes); N (no)
Column	7	Station - Well	INTERVAL_GEOL_UNIT_ASGMNT	TSMIGUA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	8	Station - Well	INTERVAL_GEOL_UNIT_ASGMNT	TSMIGUA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	9	Station - Well	INTERVAL_GEOL_UNIT_ASGMNT	TSMIGUA	TSMINTVL_IS_NUMBER	Number	12,0	Null	The foreign key to TSMINTVL implements "One Interval may be linked to one or more Interval-Geologic Unit Assignments."	Key must pre-exist in TSMINTVL.
FK Column	10	Station - Well	INTERVAL_GEOL_UNIT_ASGMNT	TSMIGUA	TSMINTVL_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMINTVL.	
FK Column	11	Station - Well	INTERVAL_GEOL_UNIT_ASGMNT	TSMIGUA	TSMGEOUN_CD	Char	12	Null	The foreign key to TSMGEOUN implements "One Geologic Unit may be linked to one or more Interval-Geologic Unit Assignments."	Key must pre-exist in TSMGEOUN.
FK Column	12	Station - Well	INTERVAL_GEOL_UNIT_ASGMNT	TSMIGUA	TSMGEOUN_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMGEOUN.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Well	INTERVAL	TSMINTVL	TSMINTVL				A vertically defined (upper and lower depth) section of interest within a Well or borehole.	
Column	2	Station - Well	INTERVAL	TSMINTVL	TSMINTVL_IS_NUMBER	Number	12,0	Not Null	A system-generated value.	Integer non-intelligent key.
Column	3	Station - Well	INTERVAL	TSMINTVL	TSMINTVL_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station - Well	INTERVAL	TSMINTVL	TYPE_CODE	Char	18	Not Null	The official USGS NWIS-II code that describes the type of Well Interval.	LITHOLOGIC UNIT (Associates Lithological form with an interval.); GEOLOGIC UNIT (Associates a GEOLOGIC UNIT interval with its descriptors. Aquifers are identified as WATER-BEARING GEOLOGIC Intervals.); CASING (Associates a CASIED INTERVAL with its descriptors.); FILL (Associates a FILLED INTERVAL with its descriptors.); OPENING (Associates an OPEN INTERVAL with its descriptors.); HOLE (Carries description of the drilled/bored/dug HOLE, eg. Start depth, stop depth, and Diameter.)
Column	5	Station - Well	INTERVAL	TSMINTVL	DEPTH_UNIT_CODE	Char	3	Not Null	The units in which a Well Interval's start depth and stop depth are expressed.	Ft (feet); m (meters)
Column	6	Station - Well	INTERVAL	TSMINTVL	START_DEPTH_MSR	Number	8,3	Not Null	The measure of the starting depth of a Well Interval as calculated from the reference point expressed in feet or meters.	Decimal number, 0 to 99999.999
Column	7	Station - Well	INTERVAL	TSMINTVL	STOP_DEPTH_MSR	Number	8,3	Not Null	The measure of the stop (ending) depth of a Well Interval as calculated from the reference point expressed in feet or meters.	Decimal number, 0 to 99999.999
Column	8	Station - Well	INTERVAL	TSMINTVL	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	9	Station - Well	INTERVAL	TSMINTVL	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	10	Station - Well	INTERVAL	TSMINTVL	TSMWELL_IS_NUMBER	Number	12,0	Null	The foreign key to TSMWELL implements "One Well may have one or more vertical Intervals."	Key must pre-exist in TSMWELL.
FK Column	11	Station - Well	INTERVAL	TSMINTVL	TSMWELL_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMWELL.	
FK Column	12	Station - Well	INTERVAL	TSMINTVL	TSMLTHUN_CD	Char	12	Null	The foreign key to TSMLTHUN implements "One Lithologic Unit may have one or more vertical well intervals."	Key must pre-exist in TSMLTHUN.
FK Column	13	Station - Well	INTERVAL	TSMINTVL	TSMLTHUN_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMLTHUN.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Well	LOG	TSMLOG	TSMLOG				A record of the layers of earth penetrated during construction of the borehole. After construction additional logs may be conducted to identify other stratigraphic features of the Well.	
Column	2	Station - Well	LOG	TSMLOG	TSMLOG_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Station - Well	LOG	TSMLOG	TSMLOG_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station - Well	LOG	TSMLOG	ID_NUMBER	Char	15	Not Null	A user defined code which references or identifies a specific well log.	
Column	5	Station - Well	LOG	TSMLOG	TYPE_CODE	Varchar2	27	Not Null	The code that represents the method used to record the Well log.	
Column	6	Station - Well	LOG	TSMLOG	REPORT_FORMAT_CODE	Char	10	Not Null	The code that represents the format of the stored Well Log.	PAPER FILE; ELECTRONIC; PUBLISHED
Column	7	Station - Well	LOG	TSMLOG	LOCATION_DESCR_TXT	Varchar2	120	Null	The text that describes a location at which the Well Log can be reviewed.	
Column	8	Station - Well	LOG	TSMLOG	CONDUCTED_DATE	Date	8	Null	The date (in format MM-DD-YYYY) that the Log was conducted.	
Column	9	Station - Well	LOG	TSMLOG	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	10	Station - Well	LOG	TSMLOG	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	11	Station - Well	LOG	TSMLOG	TSMWELL_IS_NUMBER	Number	12,0	Null	The foreign key to TSMWELL implements "One Well may have one or more Logs."	Key must pre-exist in TSMWELL.
FK Column	12	Station - Well	LOG	TSMLOG	TSMWELL_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMWELL.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Well	LITHOLOGIC_UNIT	TSMLTHUN	TSMLTHUN				A homogeneous body of strata characterized by certain observable physical features, or by the dominance of certain rock types or the combination of certain rock types. This table defines the domain of valid Lithologic Unit codes and names as defined by USGS.	
Column	2	Station - Well	LITHOLOGIC_UNIT	TSMLTHUN	TSMLTHUN_CD	Char	12	Not Null	The official USGS NWIS-II code which identifies the Lithologic Unit.	
Column	3	Station - Well	LITHOLOGIC_UNIT	TSMLTHUN	TSMLTHUN_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station - Well	LITHOLOGIC_UNIT	TSMLTHUN	NAME	Varchar2	120	Not Null	The official USGS NWIS-II name of the Lithologic Unit.	
Column	5	Station - Well	LITHOLOGIC_UNIT	TSMLTHUN	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	6	Station - Well	LITHOLOGIC_UNIT	TSMLTHUN	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station	METHOD_AND_DATUM	TSMMD	TSMMD				Codes, names, and descriptions of valid methods and datums used to determine the horizontal (latitude and longitude) location of a point on the earth, or the vertical (elevation) of such a point. This table defines the domain of valid methods and datums approved for use at EPA in its official locational data policy.	
Column	2	Station	METHOD_AND_DATUM	TSMMD	TSMMD_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Station	METHOD_AND_DATUM	TSMMD	TSMMD_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station	METHOD_AND_DATUM	TSMMD	ID_CODE	Char	12	Not Null	A cryptic ID code assigned through EPA Locational Data Policy to represent the Method or Datum referenced.	
Column	5	Station	METHOD_AND_DATUM	TSMMD	EDR_CODE	Char	12	Null	A code assigned by EPA referencing the Environmental Data Registry (EDR) to a specific entry there.	
Column	6	Station	METHOD_AND_DATUM	TSMMD	CATEGORY	Char	10	Not Null	A code which identifies whether the referenced Method or Datum is used in Horizontal or Vertical location determination.	HORIZONTAL; VERTICAL;
Column	7	Station	METHOD_AND_DATUM	TSMMD	SUBCATEGORY	Char	6	Not Null	A code which identifies whether the referenced concept is a Method or a Datum.	METHOD; DATUM;
Column	8	Station	METHOD_AND_DATUM	TSMMD	DESCRIPTION	Varchar2	254	Null	A text description of the referenced Method or Datum.	
Column	9	Station	METHOD_AND_DATUM	TSMMD	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	10	Station	METHOD_AND_DATUM	TSMMD	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Facility	NAICS	TSMNAICS	TSMNAICS				North American Industry Classification System Codes and Titles. This table defines the domain of valid values for NAICS Codes and Titles.	
Column	2	Station - Facility	NAICS	TSMNAICS	TSMNAICS_IS_NUMBER	Number	12,0	Not Null	A system-generated value.	Integer non-intelligent key.
Column	3	Station - Facility	NAICS	TSMNAICS	TSMNAICS_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station - Facility	NAICS	TSMNAICS	TSMNAICS_CODE	Char	6	Not Null	The CODE that represents a subdivision of an industry that accommodates user needs in the United States (North American U.S. National Industry Classification Code).	
Column	5	Station - Facility	NAICS	TSMNAICS	TITLE	Varchar2	120	Not Null	The TITLE of the North American Industry Classification System code.	
Column	6	Station - Facility	NAICS	TSMNAICS	EDR_SERIAL_NUMBER	Char	12	Not Null	The internal serial number assigned to the NAICS Code in EPA's Environmental Data Registry (EDR). Serves as a foreign key reference to the EDR.	Key must pre-exist in the EDR.
Column	7	Station - Facility	NAICS	TSMNAICS	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	8	Station - Facility	NAICS	TSMNAICS	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	



Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station	NATIVE_AMERICAN_LAND	TSMNAL	TSMNAL				The Indian reservations and Alaskan remote villages, as defined in FIPS Publication 55-2. This table defines the domain of valid codes and names of Native American Lands.	
Column	2	Station	NATIVE_AMERICAN_LAND	TSMNAL	TSMNAL_CD	Char	5	Not Null	The code that represents the Native American Land.	
Column	3	Station	NATIVE_AMERICAN_LAND	TSMNAL	TSMNAL_STATE	Char	2	Not Null	The Federal Information Processing Standard (FIPS) state postal code in which the Native American Land may be found.	Valid state postal codes are found in table TSMGEOPA.
Column	4	Station	NATIVE_AMERICAN_LAND	TSMNAL	TSMNAL_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	5	Station	NATIVE_AMERICAN_LAND	TSMNAL	NAME	Varchar2	40	Not Null	The FIPS name of the Native American Land.	
Column	6	Station	NATIVE_AMERICAN_LAND	TSMNAL	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Station	NATIVE_AMERICAN_LAND	TSMNAL	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Ocean	OCEAN_LOCATION	TSMOCNLC	TSMOCNLC				The location of a Station that is in an Ocean, and additional details concerning its description and location. An ocean is a major primary subdivision of the interconnected body of salt water occupying the depressions of the Earth's surface; bounded by continents and imaginary lines.	
FK Column	2	Station - Ocean	OCEAN_LOCATION	TSMOCNLC	TSMALP_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMALP implements "One Absolute Location Point may have one or more Ocean Locations."	Key must pre-exist in TSMALP.
FK Column	3	Station - Ocean	OCEAN_LOCATION	TSMOCNLC	TSMALP_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMALP.	
Column	4	Station - Ocean	OCEAN_LOCATION	TSMOCNLC	NAME	Char	14	Not Null	The name of the Ocean in which the Station is located.	Atlantic Ocean; Pacific Ocean; Gulf of Mexico; Caribbean Sea; Arctic Ocean
Column	5	Station - Ocean	OCEAN_LOCATION	TSMOCNLC	SHORE_RELATION	Char	10	Not Null	Description: For purposes of this database: Near Shore: A Near Shore Station is assumed to be located between the mean low tidal mark and the three statute mile limit. This area roughly corresponds to the jurisdictional limits of the associated state for purposes of the enforcement of Clean Water Act water quality standards.; Off Shore: An Off Shore Station is assumed to be located beyond the three statute mile limit of its associated state.	Near Shore; Off Shore;
Column	6	Station - Ocean	OCEAN_LOCATION	TSMOCNLC	LORAN_C_READING_1	Char	14	Null	Loran is a long range navigational system developed in the United States in the 1940s. Loran consists of synchronized pulsed transmissions from two or more radio stations. The first reading represents the time difference between the reception of the synchronized pulses from one master station and a slave (alpha). The second reading represents the time difference between the reception of the synchronized pulses from one master station and a slave (beta). Both slave readings must be from a common master.	
Column	7	Station - Ocean	OCEAN_LOCATION	TSMOCNLC	LORAN_C_READING_2	Char	14	Null	Loran is a long range navigational system developed in the United States in the 1940s. Loran consists of synchronized pulsed transmissions from two or more radio stations. The first reading represents the time difference between the reception of the synchronized pulses from one master station and a slave (alpha). The second reading represents the time difference between the reception of the synchronized pulses from one master station and a slave (beta). Both slave readings must be from a common master.	
Column	8	Station - Ocean	OCEAN_LOCATION	TSMOCNLC	BOTTOM_TOPOGRAPHY	Varchar2	254	Null	Text which describes the material and form of the bottom which is associated with an ocean monitoring site.	
Column	9	Station - Ocean	OCEAN_LOCATION	TSMOCNLC	ADDITNL_LOC_NAME	Varchar2	30	Null	Additional and more specific information concerning the region of the Ocean in which the Station is located.	
Column	10	Station - Ocean	OCEAN_LOCATION	TSMOCNLC	SHORE_DISTANCE	Number	6,2	Null	The distance from the Station to a reference point located on or near the shore.	
Column	11	Station - Ocean	OCEAN_LOCATION	TSMOCNLC	SHORE_DIST_UNIT_CD	Char	3	Null	The units in which the distance to shore is expressed.	Ft (feet); m (meters); km (kilometers); mi (miles); nmi (nautical miles); <Spaces>
Column	12	Station - Ocean	OCEAN_LOCATION	TSMOCNLC	REFERENCE_PT	Varchar2	30	Null	The name or description of the reference point located on or near the shore to which the distance from the Station is measured.	

Column	13	Station - Ocean	OCEAN_LOCATION	TSMOCNLC	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	14	Station - Ocean	OCEAN_LOCATION	TSMOCNLC	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Well	OPENING	TSMOPNG	TSMOPNG				A perforation in the casing or the bore hole which allows water in the surrounding strata to enter the well. When the opening is in the casing it may be screened or unscreened. Screened openings may have a mesh size and material.	
FK Column	2	Station - Well	OPENING	TSMOPNG	TSMINTVL_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMINTVL implements "One Interval may have one or more Openings."	Key must pre-exist in TSMINTVL.
FK Column	3	Station - Well	OPENING	TSMOPNG	TSMINTVL_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMINTVL.	
Column	4	Station - Well	OPENING	TSMOPNG	TYPE_CODE	Varchar2	20	Not Null	The code that identifies the type of open interval. Openings are permeable portions of the Well casings or lining. Openings may be protected with screens, fractured rock, or other devices/materials.	Valid values are found in table TSMPRMVL where TABLE_NAME='TSMOPNG' and FIELD_NAME='TYPE_CODE'.
Column	5	Station - Well	OPENING	TSMOPNG	DESCRIPTION_TEXT	Varchar2	120	Null	Additional text that provides further description of the Opening.	
Column	6	Station - Well	OPENING	TSMOPNG	MATERIAL_TYPE_CD	Varchar2	20	Null	The code that identifies the type of material with which the well opening is constructed or screened.	Valid values are found in table TSMPRMVL where TABLE_NAME='TSMOPNG' and FIELD_NAME='MATERIAL_TYPE_CODE'.
Column	7	Station - Well	OPENING	TSMOPNG	LENGTH_MSR	Number	5,3	Null	The measure of the length of an opening for a Well Interval in feet or meters.	Decimal number, 0 to 99.999
Column	8	Station - Well	OPENING	TSMOPNG	LENGTH_UNIT_CODE	Char	3	Null	The units in which the length of an Opening for a Well Interval is expressed.	Ft (feet); m (meters); in (inches); cm (centimeters); <spaces>;
Column	9	Station - Well	OPENING	TSMOPNG	WIDTH_MSR	Number	5,3	Null	The measure of the width of an Opening for a Well Interval in centimeters, feet, inches, or meters.	Decimal number, 0 to 99.999
Column	10	Station - Well	OPENING	TSMOPNG	WIDTH_UNIT_CODE	Char	3	Null	The units in which the width of an Opening for a Well Interval is expressed.	Ft (feet); m (meters); in (inches); cm (centimeters); <spaces>;
Column	11	Station - Well	OPENING	TSMOPNG	MESH_SIZE_MSR	Number	5,3	Null	The measure of the size of the mesh in the screened opening of a Well Interval expressed in centimeters, inches, or number of mesh.	
Column	12	Station - Well	OPENING	TSMOPNG	MESH_SIZE_UNT_CD	Char	3	Null	The units in which the size of the mesh in the opening of a Well Interval is expressed.	in (inches); cm (centimeters); nu (mesh number); <spaces>;
Column	13	Station - Well	OPENING	TSMOPNG	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	14	Station - Well	OPENING	TSMOPNG	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Organization	ORGANIZATION	TSMORGAN	TSMORGAN				An Organization is a State, Federal, local, academic, commercial, or other group united for a particular purpose. An Organization may sponsor Projects or Surveys, select, describe, or establish Sampling Stations, conduct Station Visits, be responsible for Programs, and assign Station Alias' and External Reference Scheme labels to Sampling Stations. Edit and update authority over its data and descriptions is allocated to each Organization through the implementation of a user controlled security password, i.e., the unlock key.	
Column	2	Organization	ORGANIZATION	TSMORGAN	TSMORGAN_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Organization	ORGANIZATION	TSMORGAN	TYPE_CODE	Varchar2	30	Not Null	The code that describes the type of Organization.	Private Industry : A private (non-government) organization representing an industrial operation.; US Government/Federal : A United States Federal (National) Government organization.; Public University/College : An organization representing a public college or university.; US Government/Interstate Comsn : A United States Interstate Government organization or commission.; Canadian Government/Federal : Canadian Federal Government (National) Organization; Mexican Government/Federal : Mexican Federal Government (National) Organization.; International/United Nations : An International organization with a direct tie to the United Nations.; Canadian Government/Provincial : Canadian Provincial Government Organization; US Government/State : United States State Government Organization.; Volunteer : An organization whose members are not compensated for their activities.; US Government/Local : A United States Local (City, county, etc) government organization.; Tribal : An organization representing a Tribe or other Native American governing body.; Mexican Gov
Column	4	Organization	ORGANIZATION	TSMORGAN	ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies an Organization. Organization IDs are registered centrally with STORET so that they are guaranteed to be unique on the National level. They become part of the Oracle Key on every row in the STORET database that belongs to the Organization.	
Column	5	Organization	ORGANIZATION	TSMORGAN	SUPERFUND_SITE_ID	Varchar2	20	Null	A code assigned by the EPA Superfund program to identify the site when the Organization ID is used to identify a superfund site.	
Column	6	Organization	ORGANIZATION	TSMORGAN	NAME	Varchar2	60	Not Null	The formal full-length name of the Organization.	
Column	7	Organization	ORGANIZATION	TSMORGAN	UNLOCK_KEY	Char	10	Not Null	The security code used by an Organization to prohibit unauthorized editing of its data. FIELD NOT IN USE.	
Column	8	Organization	ORGANIZATION	TSMORGAN	SHORT_NAME	Varchar2	20	Null	The short name or abbreviation for the Organization.	
Column	9	Organization	ORGANIZATION	TSMORGAN	PARENT_ORG	Varchar2	60	Null	The formal full name of a higher level organization which directs, is responsible for, or has authority over the activities and operations of the data-owning organization.	Free text. Not a controlled field.

Column	10	Organization	ORGANIZATION	TSMORGAN	DESCRIPTION_TEXT	Varchar2	254	Null	The text describing details of the Organization that users may wish to provide. For example, this text may be used to describe the purpose, mission, or goals of the Organization.	
Column	11	Organization	ORGANIZATION	TSMORGAN	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	12	Organization	ORGANIZATION	TSMORGAN	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Project	PROJECT_COOP_ORG_ASSIGNMENT	TSMPCOA	TSMPCOA				Assigns a Cooperating Organization to a Project. Cooperating Organizations may be assigned to more than one Project.	
FK Column	2	Project	PROJECT_COOP_ORG_ASSIGNMENT	TSMPCOA	TSMPROJ_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMPROJ implements "One Project may participate in one or more Project-Cooperatin Org Assignments."	Key must pre-exist in TSMPROJ.
FK Column	3	Project	PROJECT_COOP_ORG_ASSIGNMENT	TSMPCOA	TSMPROJ_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMPROJ.	
FK Column	4	Project	PROJECT_COOP_ORG_ASSIGNMENT	TSMPCOA	TSMCPORG_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMCPORG implements "One Cooperating Organization may participate in one or more Project-Cooperatiin Org Assignments."	Key must pre-exist in TSMCPORG.
FK Column	5	Project	PROJECT_COOP_ORG_ASSIGNMENT	TSMPCOA	TSMCPORG_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMCPORG.	
Column	6	Project	PROJECT_COOP_ORG_ASSIGNMENT	TSMPCOA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Project	PROJECT_COOP_ORG_ASSIGNMENT	TSMPCOA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Organization	PERSON	TSMPERSON	TSMPERSON				Contains identifying information about an individual that plays a role in an Organization or Project.	
Column	2	Organization	PERSON	TSMPERSON	TSMPERSON_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Organization	PERSON	TSMPERSON	TSMPERSON_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Organization	PERSON	TSMPERSON	FIRST_NAME	Varchar2	30	Not Null	The first name of a Person who has been assigned to an Organization and can be expected to perform a role in the Organization and can be expected to participate in projects.	
Column	5	Organization	PERSON	TSMPERSON	LAST_NAME	Varchar2	40	Not Null	The last name of a Person.	
Column	6	Organization	PERSON	TSMPERSON	ACTIVE_INDICATR_CD	Char	1	Not Null	The code that indicates if the Person is active in the Organization.	Y (yes); N (no);
Column	7	Organization	PERSON	TSMPERSON	AFFILIATION_TEXT	Varchar2	60	Null	The text denotes the employer of the Person if the employer is not the Organization to which the Person is being assigned.	
Column	8	Organization	PERSON	TSMPERSON	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	9	Organization	PERSON	TSMPERSON	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	10	Organization	PERSON	TSMPERSON	TSMORGAN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMORGAN implements "One Organization may have one or more Persons."	Key must pre-exist in TSMORGAN.



Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Facility	PIPE	TSMPIPE	TSMPIPE				For purposes of this database: A Pipe is defined as either an intake or an outfall.; Outfall: A Pipe that transports a liquid or slurry from a Facility to a discharge point on or in a body of water; Intake: A Pipe that transports water from a body of water to a Facility.	
Column	2	Station - Facility	PIPE	TSMPIPE	TSMPIPE_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Station - Facility	PIPE	TSMPIPE	TSMPIPE_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station - Facility	PIPE	TSMPIPE	ID_NUMBER	Char	15	Not Null	Pipe number that uniquely identifies a Pipe to the Facility. A Facility may have an unlimited number of Pipes.	Value may be alphanumeric.
Column	5	Station - Facility	PIPE	TSMPIPE	DESCRIPTION_TEXT	Varchar2	254	Null	Text that describes the physical features of the Pipe or its intake/outfall qualities.	
Column	6	Station - Facility	PIPE	TSMPIPE	SBSRFC_DSCH_IND_CD	Char	1	Not Null	The code that indicates if a pipe is a subsurface discharge.	Y (yes); N (no);
Column	7	Station - Facility	PIPE	TSMPIPE	STATUS_NAME	Char	9	Not Null	The name for the flow status of a Pipe (i.e., active, inactive, or abandoned).	Active; Inactive; Abandoned; Unknown;
Column	8	Station - Facility	PIPE	TSMPIPE	TREATMENT_NAME	Char	17	Not Null	The name describing the treatment status of the discharge or intake flowing through the Pipe.	None; Partially Treated; Treated; Other/Unknown;
Column	9	Station - Facility	PIPE	TSMPIPE	FLOW_TYPE_NAME	Char	16	Not Null	The name which indicates whether a pipe is discharging to, or drawing from a body of water.	Intake/Influent : The Pipe is drawing water from the body of water; Outfall/Effluent : The Pipe is discharging an effluent to the body of water; Other/Unknown : Intake or Effluent condition not known for this Pipe; Combined : Both intake and discharge occur at this one Pipe.Intake/Influent : The Pipe is drawing water from the body of water.;
Column	10	Station - Facility	PIPE	TSMPIPE	USE_NAME	Varchar2	25	Null	The purpose or use of the pipe by the facility, e.g. storm water runoff, sanitary sewer.	Combined Sewer Overflow; Storm Water; Cooling; Drinking; Unknown; Industrial Discharge; POTW Discharge; <Spaces>
Column	11	Station - Facility	PIPE	TSMPIPE	DSCHRG_FREQ_TYP_CD	Char	12	Null	The frequency of Pipe discharge.	Intermittent; Occasional; Steady; Seasonal; Wet Weather; <Spaces>;
Column	12	Station - Facility	PIPE	TSMPIPE	RECEIVING_WTR_TXT	Varchar2	40	Null	The name or other descriptive information about the body of water receiving the discharge or acting as the source of an Intake Pipe.	
Column	13	Station - Facility	PIPE	TSMPIPE	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	14	Station - Facility	PIPE	TSMPIPE	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	15	Station - Facility	PIPE	TSMPIPE	TSMSTATN_ORG_ID	Char	8	Null	The foreign key to TSMSTATN implements "One Station may have one or more Pipes."	Key must pre-exist in TSMSTATN.
FK Column	16	Station - Facility	PIPE	TSMPIPE	TSMSTATN_IS_NUMBER	Number	12,0	Null	The TSMORGAN portion of the foreign key to TSMSTATN.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station	PERMANENT_GRID	TSMPMGRD	TSMPMGRD				A system of two groups of parallel equally spaced lines, perpendicular to each other, such that a checker board pattern is formed. (Any station type except Well, Facility, Spring or Cave, may have a Grid.) Note: Must relate to one ALP of type GRID ORIGIN.	
FK Column	2	Station	PERMANENT_GRID	TSMPMGRD	TSMSTATN_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMSTATN implements "One Station may have one or more (actually only one) Permanent Grids."	
FK Column	3	Station	PERMANENT_GRID	TSMPMGRD	TSMSTATN_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMSTATN.	
Column	4	Station	PERMANENT_GRID	TSMPMGRD	DESCRIPTION_TEXT	Varchar2	120	Null	The text that describes the Permanent Grid. Example: The four corners of the grid are marked by concrete disks set in the ground between which routine sampling is conducted.	
Column	5	Station	PERMANENT_GRID	TSMPMGRD	X_AXIS_LENGTH_MSR	Number	14,4	Not Null	The measure of the x-axis length in meters, feet, miles, kilometers	Decimal number, 0 to 9999999999.9999
Column	6	Station	PERMANENT_GRID	TSMPMGRD	Y_AXIS_LENGTH_MSR	Number	14,4	Not Null	The measure of the y-axis length in meters, feet, miles, kilometers	Decimal number, 0 to 9999999999.9999
Column	7	Station	PERMANENT_GRID	TSMPMGRD	X_AXIS_UNIT_CODE	Char	3	Not Null	The code that represents the unit of measure for the length of the X-axis.	Ft (FEET); m (METERS); mi (MILES); km (KILOMETERS); dm (DECIMETERS); yd (YARDS); nmi (NAUTICAL MILES)
Column	8	Station	PERMANENT_GRID	TSMPMGRD	Y_AXIS_UNIT_CODE	Char	3	Not Null	The code that represents the unit of measure for the length of the Y-axis.	Ft (FEET); m (METERS); mi (MILES); km (KILOMETERS); dm (DECIMETERS); yd (YARDS); nmi (NAUTICAL MILES)
Column	9	Station	PERMANENT_GRID	TSMPMGRD	CELL_AREA_MSR	Number	3	Null	The area of the sampling cell within the Grid in square meters, square kilometers, square decimeters, square miles, and square feet.	
Column	10	Station	PERMANENT_GRID	TSMPMGRD	CELL_AREA_UNIT_CD	Char	4	Null	The code that describes the unit of measure for the area of the sampling cell in a Permanent Grid.	ft2 (SQUARE FEET); m2 (SQUARE METERS); yd2 (SQUARE YARDS); mi2 (SQUARE MILES); km2 (SQUARE KILOMETERS); dm2 (SQUARE DECIMETERS); nmi2 (SQUARE NAUTICAL MILES); <Spaces>
Column	11	Station	PERMANENT_GRID	TSMPMGRD	LABEL_SCHEME_TEXT	Varchar2	80	Not Null	The text that describes the labeling scheme for the Permanent Grid. This is how the user navigates the Grid when selecting sampling cells.	
Column	12	Station	PERMANENT_GRID	TSMPMGRD	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	13	Station	PERMANENT_GRID	TSMPMGRD	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station	PERMANENT_TRANSECT	TSMPTCT	TSMPTCT				A permanently established line or belt of survey or sampling designed to study changes in environmental conditions across a particular area associated with a station. (Any station type except Well, Facility, Spring or Cave, may have a Transect.) Note: Must relate to one ALP of type TRANSECT ORIGIN. May relate to many ALP of type TRANS SAMPLING.	
FK Column	2	Station	PERMANENT_TRANSECT	TSMPTCT	TSMSTATN_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMSTATN implements "One Station may have one or more Permanent Transects."	Key must pre-exist in TSMSTATN.
FK Column	3	Station	PERMANENT_TRANSECT	TSMPTCT	TSMSTATN_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMSTATN.	
Column	4	Station	PERMANENT_TRANSECT	TSMPTCT	DESCRIPTION_TEXT	Varchar2	120	Null	The text that describes the permanent physical marking of the transect line or belt. Any description that allows for the location and repetitive sampling of the Transect.	
Column	5	Station	PERMANENT_TRANSECT	TSMPTCT	INTERVAL_MSR	Number	14,4	Not Null	The numerical value expressed in meters, kilometers, feet, miles, or nautical miles indicating the distance between points on the Permanent Transect.	Decimal number, 0 to 9999999999.9999
Column	6	Station	PERMANENT_TRANSECT	TSMPTCT	INTERVAL_UNT_CD	Char	3	Not Null	The units in which the distance between points in the Permanent Transect is expressed.	Ft (FEET); m (METERS); mi (MILES); km (KILOMETERS); dm (DECIMETERS); yd (YARDS); nmi (NAUTICAL MILES)
Column	7	Station	PERMANENT_TRANSECT	TSMPTCT	LENGTH_MSR	Number	14,4	Not Null	The overall length measure of the Transect expressed in meters, kilometers, feet, miles, nautical miles.	Decimal number, 0 to 9999999999.9999
Column	8	Station	PERMANENT_TRANSECT	TSMPTCT	LENGTH_UNT_CD	Char	3	Not Null	The units in which the length of the Permanent Transect is expressed.	Ft (FEET); m (METERS); mi (MILES); km (KILOMETERS); nmi (NAUTICAL MILES); yd (YARDS); dm (DECIMETERS)
Column	9	Station	PERMANENT_TRANSECT	TSMPTCT	LABEL_SCHEME_TXT	Varchar2	80	Not Null	The text that describes the labeling scheme of the points on the Permanent Transect.	
Column	10	Station	PERMANENT_TRANSECT	TSMPTCT	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	11	Station	PERMANENT_TRANSECT	TSMPTCT	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Project	PROJECT_PERSON_ASSIGNMENT	TSMPPA	TSMPPA				The roster of assigned people and their roles on the Project.	
FK Column	2	Project	PROJECT_PERSON_ASSIGNMENT	TSMPPA	TSMPROJ_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMPROJ implements "One Project may participate in one or more Project-Person Assignments."	Key must pre-exist in TSMPROJ.
FK Column	3	Project	PROJECT_PERSON_ASSIGNMENT	TSMPPA	TSMPROJ_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMPROJ.	
FK Column	4	Project	PROJECT_PERSON_ASSIGNMENT	TSMPPA	TSMPERSON_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMPERSON implements "One Person may participate in one or more Project-Person Assignments."	Key must pre-exist in TSMPERSON.
FK Column	5	Project	PROJECT_PERSON_ASSIGNMENT	TSMPPA	TSMPERSON_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMPERSON.	
Column	6	Project	PROJECT_PERSON_ASSIGNMENT	TSMPPA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Project	PROJECT_PERSON_ASSIGNMENT	TSMPPA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Project	PROJECT_PERSON_ROLE_ASSIGNMENT	TSMPPRA	TSMPPRA				Describes the association between the Project, Person, and Person Role entities. A Person assigned to a Project can have multiple roles.	
FK Column	2	Project	PROJECT_PERSON_ROLE_ASSIGNMENT	TSMPPRA	TSMPROJ_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMPROJ implements "One Project may participate in one or more Project-Person Role Assignments."	Key must pre-exist in TSMPROJ.
FK Column	3	Project	PROJECT_PERSON_ROLE_ASSIGNMENT	TSMPPRA	TSMPROJ_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMPROJ.	
FK Column	4	Project	PROJECT_PERSON_ROLE_ASSIGNMENT	TSMPPRA	TSMPSRN_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMPSRN implements "One Person may participate in one or more Project-Person Role Assignments."	Key must pre-exist in TSMPSRN.
FK Column	5	Project	PROJECT_PERSON_ROLE_ASSIGNMENT	TSMPPRA	TSMPSRN_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMPSRN.	
FK Column	6	Project	PROJECT_PERSON_ROLE_ASSIGNMENT	TSMPPRA	TSMPROLE_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMPROLE implements "One Person Role may participate in one or more Project-Person Role assignments."	Key must pre-exist in TSMPROLE.
FK Column	7	Project	PROJECT_PERSON_ROLE_ASSIGNMENT	TSMPPRA	TSMPROLE_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMPROLE.	
Column	8	Project	PROJECT_PERSON_ROLE_ASSIGNMENT	TSMPPRA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	9	Project	PROJECT_PERSON_ROLE_ASSIGNMENT	TSMPPRA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Organization	PERSON_ROLE_ASSIGNMENT	TSPRA	TSPRA				Describes the association between the Organization and the Person entities, and the roles of the Persons.	
FK Column	2	Organization	PERSON_ROLE_ASSIGNMENT	TSPRA	TSPERSN_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSPERSN implements "One Person may participate in one or more Person Role Assignments."	Key must pre-exist in TSPERSN.
FK Column	3	Organization	PERSON_ROLE_ASSIGNMENT	TSPRA	TSPERSN_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSPERSN.	
FK Column	4	Organization	PERSON_ROLE_ASSIGNMENT	TSPRA	TSMROLE_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMROLE implements "One Person Role may participate in one or more Person Role assignments."	Key must pre-exist in TSMROLE.
FK Column	5	Organization	PERSON_ROLE_ASSIGNMENT	TSPRA	TSMROLE_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMROLE.	
Column	6	Organization	PERSON_ROLE_ASSIGNMENT	TSPRA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Organization	PERSON_ROLE_ASSIGNMENT	TSPRA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	DBA	PERMITTED_VALUE	TSMPRMVL	TSMPRMVL				This table holds the domain definitions and permitted values for many fields found elsewhere in the STORET Database. The Table Name and COLUMN_NAME attributes of this table are used to cross-reference the field to which given permitted values will apply.	
Column	2	DBA	PERMITTED_VALUE	TSMPRMVL	TSMPRMVL_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	DBA	PERMITTED_VALUE	TSMPRMVL	TSMPRMVL_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	DBA	PERMITTED_VALUE	TSMPRMVL	TABLE_NAME	Char	8	Not Null	The name of the table whose permitted values are referenced here.	
Column	5	DBA	PERMITTED_VALUE	TSMPRMVL	FIELD_NAME	Varchar2	20	Not Null	The name of the column, field, or attribute of the referenced table whose permitted values are referenced here.	
Column	6	DBA	PERMITTED_VALUE	TSMPRMVL	SEQUENCE_NUMBER	Number	3	Not Null	A sequence number used for ordering the display of a list of permitted values for a specific table and field as referenced.	Integer, 1 to 999
Column	7	DBA	PERMITTED_VALUE	TSMPRMVL	FIELD_VALUE	Varchar2	40	Null	A valid permitted value for the field and table referenced.	
Column	8	DBA	PERMITTED_VALUE	TSMPRMVL	FIELD_DESC	Varchar2	254	Null	Text description or definition for the term held in the FIELD_VALUE column.	
Column	9	DBA	PERMITTED_VALUE	TSMPRMVL	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	10	DBA	PERMITTED_VALUE	TSMPRMVL	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Project	PROGRAM	TSMPROGM	TSMPROGM				A program is a user-defined set of comprehensive federal, state, or local activities that combine to control or prevent pollution, remediate or restore contaminated sites, and protect and preserve environmental resources through statute, regulation, or standard operating procedures. A Program may be comprised of many Projects or Surveys. Additionally, Program names may be selected from a standardized list developed by EPA (e.g. well head protection, drinking water).	
Column	2	Project	PROGRAM	TSMPROGM	TSMPROGM_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Project	PROGRAM	TSMPROGM	TSMPROGM_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Project	PROGRAM	TSMPROGM	TYPE_CODE	Char	3	Not Null	Organizations may define Organization-specific Programs to which they can assign any number of their Projects or Surveys (i.e., Florida Water Quality Monitoring Program). National: The system administrator may define Programs to which many Organizations may assign any number of their individual Projects or Surveys (i.e., Superfund).	NAT: ORG;
Column	5	Project	PROGRAM	TSMPROGM	NAME	Varchar2	60	Not Null	The full-name of the Program.	
Column	6	Project	PROGRAM	TSMPROGM	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Project	PROGRAM	TSMPROGM	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	8	Project	PROGRAM	TSMPROGM	TSMORGAN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMORGAN implements "One Organization may have one or more Programs."	Key must pre-exist in TSMORGAN.



Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Project	PROJECT	TSMPROJ	TSMPROJ				A Project or Survey is a planned activity or set of activities conducted for the purpose of collecting information concerning environmental quality. For purposes of this database, each Organization controls (owns) the identifications and descriptions of its Projects or Surveys.	
Column	2	Project	PROJECT	TSMPROJ	TSMPROJ_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Project	PROJECT	TSMPROJ	TSMPROJ_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Project	PROJECT	TSMPROJ	IDENTIFICATION_CD	Char	8	Not Null	The code (combination of text or numbers) used by the owning Organization to uniquely identify the Project or Survey.	
Column	5	Project	PROJECT	TSMPROJ	NAME	Varchar2	60	Not Null	The name assigned by the owning Organization to the Project or Survey.	
Column	6	Project	PROJECT	TSMPROJ	START_DATE	Date	8	Null	The date (in format MM-DD-YYYY) on which a Project or Survey is scheduled to begin.	
Column	7	Project	PROJECT	TSMPROJ	PLANNED_DURATION	Char	15	Not Null	The expected elapsed time of the project. Examples: 2 Year, Historical, Ongoing	
Column	8	Project	PROJECT	TSMPROJ	BLOB_TYPE	Char	3	Null	File types permitted for BLOB content. BLOBs (Binary Large Objects) are typically entire files whos content extends and further defines the Project. A single BLOB of type PDF might contain the complete project design specification as published by the project manager.	JPG; BMP; GIF; TXT; PDF; <Spaces>
Column	9	Project	PROJECT	TSMPROJ	BLOB_TITLE	Varchar2	60	Null	User-defined Title of the BLOB Content.	
Column	10	Project	PROJECT	TSMPROJ	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	11	Project	PROJECT	TSMPROJ	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	12	Project	PROJECT	TSMPROJ	TSMORGAN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMORGAN implements "One Organization may have one or more Projects."	Key must pre-exist in TSMORGAN.

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Organization	PERSON_ROLE	TSMPROLE	TSMPROLE				Contains the roles a person can play in relation to projects and organizations (as well as field monitoring activities and result analysis).	
Column	2	Organization	PERSON_ROLE	TSMPROLE	TSMPROLE_IS_NUMBER	Number	12,0	Not Null	A system-generated value.	Integer non-intelligent key.
Column	3	Organization	PERSON_ROLE	TSMPROLE	TSMPROLE_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Organization	PERSON_ROLE	TSMPROLE	TITLE	Varchar2	32	Not Null	The name of a role in the Organization that can be assumed by a Person. NOTE: A Person can assume many roles.	
Column	5	Organization	PERSON_ROLE	TSMPROLE	TYPE_CODE	Char	4	Not Null	Indicates the code for a type of Person role.	PROJ; ORG; BOTH
Column	6	Organization	PERSON_ROLE	TSMPROLE	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Organization	PERSON_ROLE	TSMPROLE	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Table	1	Project	PROJECT_PROGRAM_ASSIGNMENT	TSMRPRA	TSMRPRA				Describes the association between Program and Project.	
FK Column	2	Project	PROJECT_PROGRAM_ASSIGNMENT	TSMRPRA	TSMPROJ_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMPROJ implements "One Project may participate in one or more Project-Program Assignments."	Key must pre-exist in TSMPROJ.
FK Column	3	Project	PROJECT_PROGRAM_ASSIGNMENT	TSMRPRA	TSMPROJ_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMPROJ.	
FK Column	4	Project	PROJECT_PROGRAM_ASSIGNMENT	TSMRPRA	TSMPROGM_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMPROGM implements "One Program may participate in one or more Project-Program Assignments."	Key must pre-exist in TSMPROGM.
FK Column	5	Project	PROJECT_PROGRAM_ASSIGNMENT	TSMRPRA	TSMPROGM_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMPROGM.	
Column	6	Project	PROJECT_PROGRAM_ASSIGNMENT	TSMRPRA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Project	PROJECT_PROGRAM_ASSIGNMENT	TSMRPRA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Project	PROJECT_STATION_ASSIGNMENT	TSMPSA	TSMPSA				Assigns a Station to a Project. Stations may be assigned to more than one Project. Stations not assigned to projects may not receive data concerning station visits, field activities, or results.	
FK Column	2	Project	PROJECT_STATION_ASSIGNMENT	TSMPSA	TSMSTATN_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMSTATN implements "One Station may be assigned to one or more Project Station Assignments."	Key must pre-exist in TSMSTATN.
FK Column	3	Project	PROJECT_STATION_ASSIGNMENT	TSMPSA	TSMSTATN_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMSTATN.	
FK Column	4	Project	PROJECT_STATION_ASSIGNMENT	TSMPSA	TSMPROJ_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMPROJ implements "One Project may have assigned to it one or more Project Station Assignments."	Key must pre-exist in TSMPROJ.
FK Column	5	Project	PROJECT_STATION_ASSIGNMENT	TSMPSA	TSMPROJ_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMPROJ.	
Column	6	Project	PROJECT_STATION_ASSIGNMENT	TSMPSA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Project	PROJECT_STATION_ASSIGNMENT	TSMPSA	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Project	PROJECT_STATION_ROLE	TSMPSR	TSMPSR				Contains possible type designations for a given station on a given project. Valid type designations include: 1) Control 2) Water quality monitoring 3) Biological monitoring 4) Meteorological 5) Sediment chemistry 6) Habitat evaluation 7) Benthic monitoring	
Column	2	Project	PROJECT_STATION_ROLE	TSMPSR	TSMPSR_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Project	PROJECT_STATION_ROLE	TSMPSR	TSMPSR_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Project	PROJECT_STATION_ROLE	TSMPSR	TYPE_NAME	Varchar2	32	Not Null	Name for a role a Station may play on a Project. NOTE: Stations may play many roles on a Project.	
Column	5	Project	PROJECT_STATION_ROLE	TSMPSR	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	6	Project	PROJECT_STATION_ROLE	TSMPSR	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Project	PROJECT_STATION_ROLE_ASSIGNMENT	TSMPSRA	TSMPSRA				Identifies the role(s) of a Station assigned to a Project. Stations may be assigned more than one role on a single Project.	
FK Column	2	Project	PROJECT_STATION_ROLE_ASSIGNMENT	TSMPSRA	TSMSTATN_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMSTATN implements "One Station may participate in one or more Project-Station Role Assignments."	The key must pre-exist in TSMSTATN.
FK Column	3	Project	PROJECT_STATION_ROLE_ASSIGNMENT	TSMPSRA	TSMSTATN_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMSTATN.	
FK Column	4	Project	PROJECT_STATION_ROLE_ASSIGNMENT	TSMPSRA	TSMPROJ_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMPROJ implements "One Project may participate in one or more Project-Station Role Assignments."	The key must pre-exist in TSMPROJ
FK Column	5	Project	PROJECT_STATION_ROLE_ASSIGNMENT	TSMPSRA	TSMPROJ_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMPROJ.	
FK Column	6	Project	PROJECT_STATION_ROLE_ASSIGNMENT	TSMPSRA	TSMPSR_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMPSR implements "One Project Station Role may participate in one or more Project-Station Role Assignments."	The key must pre-exist in TSMPSR.
FK Column	7	Project	PROJECT_STATION_ROLE_ASSIGNMENT	TSMPSRA	TSMPSR_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMPSR.	
Column	8	Project	PROJECT_STATION_ROLE_ASSIGNMENT	TSMPSRA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	9	Project	PROJECT_STATION_ROLE_ASSIGNMENT	TSMPSRA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Project	PROJECT_STATION_WEIGHT	TSMPSW	TSMPSW				Project Station Weights - Provide probability weights information for a given Project Station Assignment. This table provides structured designations reflecting an EPA EMAP statistical design for aa large scale ambient monitoring project.	
Column	2	Project	PROJECT_STATION_WEIGHT	TSMPSW	WEIGHT	Char	15	Not Null	The quantitative or qualitative statistical weight assigned to the referenced station, describing its relevance to the referenced project.	
Column	3	Project	PROJECT_STATION_WEIGHT	TSMPSW	WEIGHT_UNIT_CODE	Char	15	Not Null	The Units of measure associated with the statistical weight.	
Column	4	Project	PROJECT_STATION_WEIGHT	TSMPSW	STRATUM	Char	15	Null	The statistical stratum from which the station is drawn relevant to its participation on this project.	
Column	5	Project	PROJECT_STATION_WEIGHT	TSMPSW	CATEGORY	Char	15	Null	The statistical category to which the referenced station is assigned relative to its participation in the referenced project.	
Column	6	Project	PROJECT_STATION_WEIGHT	TSMPSW	SITE_STATUS	Char	15	Null	The status of the referenced site with respect to the referenced project.	
Column	7	Project	PROJECT_STATION_WEIGHT	TSMPSW	ADMIN_YEAR	Char	15	Null	The administrative year of the referenced station's participation in the referenced project.	
Column	8	Project	PROJECT_STATION_WEIGHT	TSMPSW	COMMENT_TEXT	Varchar2	256	Null	Additional comments if needed to further describe the design criteria for the inclusion of the referenced site in the referenced project.	
Column	9	Project	PROJECT_STATION_WEIGHT	TSMPSW	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	10	Project	PROJECT_STATION_WEIGHT	TSMPSW	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	11	Project	PROJECT_STATION_WEIGHT	TSMPSW	TSMSTATN_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMSTATN implements "One Station may have one or more Project-specific Statistical Weights."	Key must pre-exist in TSMSTATN.
FK Column	12	Project	PROJECT_STATION_WEIGHT	TSMPSW	TSMSTATN_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMSTATN.	
FK Column	13	Project	PROJECT_STATION_WEIGHT	TSMPSW	TSMPROJ_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMPROJ implements "One Project may have one or more Station-specific Statistical Weights."	Key must pre-exist in TSMPROJ.
FK Column	14	Project	PROJECT_STATION_WEIGHT	TSMPSW	TSMPROJ_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMPROJ.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Well	PUMP	TSPUMP	TSPUMP				A mechanical device or lift installed in a Well used to move liquids against a gradient (e.g., gravity, pressure).	
Column	2	Station - Well	PUMP	TSPUMP	TSPUMP_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Station - Well	PUMP	TSPUMP	TSPUMP_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station - Well	PUMP	TSPUMP	TYPE_CODE	Varchar2	16	Not Null	The code that represents the type of Pump.	
Column	5	Station - Well	PUMP	TSPUMP	SERIAL_NUMBER	Char	15	Null	The unique number assigned by the manufacturer which identifies the pump.	
Column	6	Station - Well	PUMP	TSPUMP	MANUFACTURER_NAME	Varchar2	30	Null	The name of the Pump manufacturer.	
Column	7	Station - Well	PUMP	TSPUMP	MANUFACTR_MODEL_NM	Varchar2	20	Null	The manufacturer's model name/number for a Pump.	
Column	8	Station - Well	PUMP	TSPUMP	RATED_RPM_MSR	Number	4	Null	The measure that indicates a Pump's designed operating speed in revolutions per minute as stated by the manufacturer.	
Column	9	Station - Well	PUMP	TSPUMP	RATED_CAPACITY_MSR	Number	6,2	Null	The measure that indicates a Pump's designed flow at the manufacturer's rated RPM of the pump. This measure is expressed in cubic feet per minute, cubic feet per second, or gallons per minute.	
Column	10	Station - Well	PUMP	TSPUMP	RATED_CPCTY_UNT_CD	Char	7	Null	The units in which a Pump's rated capacity is expressed.	gal/min (GALLONS PER MINUTE); cfs (CUBIC FEET PER SECOND); cfm (CUBIC FEET PER MINUTE); <Spaces>
Column	11	Station - Well	PUMP	TSPUMP	RATED_POWER_MSR	Number	5,2	Null	The measure indicates a Pump's power output at the manufacturer's designed RPM. This is measured in Horsepower or Watts.	
Column	12	Station - Well	PUMP	TSPUMP	RATED_POWER_UNT_CD	Char	6	Null	The units in which a Pump's rated power is expressed.	hp (HORSEPOWER); Watts (WATTS); kw (KILOWATTS); Joules (JOULES); <Spaces>
Column	13	Station - Well	PUMP	TSPUMP	INTAKE_DEPTH_MSR	Number	8,3	Null	The measure that indicates the depth of a Pump's intake opening within the Well or borehole expressed in feet or meters.	
Column	14	Station - Well	PUMP	TSPUMP	INTAK_DEPTH_UNT_CD	Char	3	Null	The units in which the depth of a Pump's intake opening is expressed.	m (METERS); ft (FEET); <Spaces>
Column	15	Station - Well	PUMP	TSPUMP	INTAK_DEPTH_REF_PT	Varchar2	60	Null	The text that describes the point on the Well or Well structure from which a measurement is made.	
Column	16	Station - Well	PUMP	TSPUMP	LOCATION_MEASURE	Number	8,3	Null	The measure of the depth of the Pump in the Well or borehole, relative to a specific reference point expressed in feet or meters.	
Column	17	Station - Well	PUMP	TSPUMP	LOCATION_UNIT_CODE	Char	3	Null	The code that represents the units in which the depth of the Pump is expressed.	m (METERS); ft (FEET); <Spaces>
Column	18	Station - Well	PUMP	TSPUMP	LOCATN_REF_PT_TXT	Varchar2	60	Null	The text that describes the point on the Well or Well structure from which a measurement is made.	
Column	19	Station - Well	PUMP	TSPUMP	INSTALLATION_DATE	Date	8	Null	The date (in format MM-DD-YYYY) the Pump was installed.	
Column	20	Station - Well	PUMP	TSPUMP	REMOVAL_DATE	Date	8	Null	The date (in format MM-DD-YYYY) the Pump was removed.	
Column	21	Station - Well	PUMP	TSPUMP	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	22	Station - Well	PUMP	TSPUMP	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	23	Station - Well	PUMP	TSPUMP	TSMWELL_IS_NUMBER	Number	12,0	Null	The foreign key to TSMWELL implements "One Well may have one or more Pumps."	Key must pre-exist in TSMWELL.
FK Column	24	Station - Well	PUMP	TSPUMP	TSMWELL_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMWELL.	



Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station	REFERENCE_LABEL	TSMRFLBL	TSMRFLBL				Label that provides the identifier for a Station in a specific External Reference Scheme (e.g., NPDES permit number, FRDS #, EMAP Hexagon #).	
FK Column	2	Station	REFERENCE_LABEL	TSMRFLBL	TSMSTATN_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMSTATN implements "One Station may have one or more Alternate Ids (Reference Labels)".	Key must pre-exist in TSMSTATN.
FK Column	3	Station	REFERENCE_LABEL	TSMRFLBL	TSMSTATN_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMSTATN.	
FK Column	4	Station	REFERENCE_LABEL	TSMRFLBL	TSMERS_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMERS implements "One External Reference Scheme may have one or more Alternate Ids (Reference Labels) for any Station."	Key must pre-exist in TSMERS.
FK Column	5	Station	REFERENCE_LABEL	TSMRFLBL	TSMERS_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMERS.	
Column	6	Station	REFERENCE_LABEL	TSMRFLBL	TSMRFLBL_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	
Column	7	Station	REFERENCE_LABEL	TSMRFLBL	LABEL_CODE	Varchar2	20	Not Null	The alpha-numeric code which uniquely identifies a Station within a particular External Reference Scheme.	
Column	8	Station	REFERENCE_LABEL	TSMRFLBL	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	9	Station	REFERENCE_LABEL	TSMRFLBL	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station	RF1_RIVER_REACH	TSMRRR	TSMRRR				The EPA designation for river reaches in the United States, as defined in the EPA River Reach file (Version 1.0, commonly called RF1). For purposes of implementation, STORET has determined lat/long max/min locations which bound each RF1 River Reach. This table defines the valid domain of EPA RF1 River Reaches, where each reach ID consists of a valid Hydrologic Unit Code, or HUC, concatenated with an EPA-assigned Segment Number.	
Column	2	Station	RF1_RIVER_REACH	TSMRRR	TSMRRR_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Station	RF1_RIVER_REACH	TSMRRR	TSMRRR_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station	RF1_RIVER_REACH	TSMRRR	HYDROLOGIC_UNIT_CD	Char	8	Not Null	The Federal Information Processing Standard (FIPS) code for Hydrologic Units, as defined in FIPS Publication 103.	The valid domain of Hydrologic Unit Codes is defined by table TSMFPU.
Column	5	Station	RF1_RIVER_REACH	TSMRRR	SEGMENT_CODE	Char	3	Not Null	The code for River Reaches in the United States, as defined in the EPA River Reach File. This table (TSMRRR) defines the valid domain of Segment Codes.	
Column	6	Station	RF1_RIVER_REACH	TSMRRR	NAME	Varchar2	30	Null	The name of a river reach in the United States, as defined in the EPA River Reach File.	
Column	7	Station	RF1_RIVER_REACH	TSMRRR	TYPE_CODE	Char	1	Null	The RF1 River Reach type code.	A, M, or V (Open Water Reach); B (Bi-Directional Reach); C (Coastline); E (Entry to Country); G (Shoreline of Great Lakes); I (Shoreline of Island); L (Shoreline of Lake/Reservoir); N (Isolated Reach); R (Regular Reach); S (Headwaters (Source) Reach); T (Terminal Reach); W (Shoreline of Wide River); X (Both Headwaters and Terminal); Y (International Boundary Reach); Z (Both Terminal and Entry to Country)
Column	8	Station	RF1_RIVER_REACH	TSMRRR	LEVEL_CODE	Number	2	Null	A code indicating the level associated with an RF1 River Reach. Level 1 reaches are on the main stem of the stream or river. Level 2 reaches are on tributaries to level 1 and so forth.	
Column	9	Station	RF1_RIVER_REACH	TSMRRR	MILE_LENGTH	Number	5,1	Null	The length of the RF1 River Reach in miles.	
Column	10	Station	RF1_RIVER_REACH	TSMRRR	LAT_MAX_DEGREE	Number	14,4	Null	Intended to be used internally to assist in searching for RF1 river reaches which match a given latitude/longitude point. NOTE: Not currently used. Search is by HUC instead.	
Column	11	Station	RF1_RIVER_REACH	TSMRRR	LAT_MIN_DEGREE	Number	14,4	Null	Intended to be used internally to assist in searching for RF1 river reaches which match a given latitude/longitude point. NOTE: Not currently used. Search is by HUC instead.	
Column	12	Station	RF1_RIVER_REACH	TSMRRR	LONG_MAX_DEGREE	Number	14,4	Null	Intended to be used internally to assist in searching for RF1 river reaches which match a given latitude/longitude point. NOTE: Not currently used. Search is by HUC instead.	

Column	13	Station	RF1_RIVER_REACH	TSMRRR	LONG_MIN_DEGREE	Number	14,4	Null	Intended to be used internally to assist in searching for RF1 river reaches which match a given latitude/longitude point. NOTE: Not currently used. Search is by HUC instead.	
Column	14	Station	RF1_RIVER_REACH	TSMRRR	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	15	Station	RF1_RIVER_REACH	TSMRRR	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Facility	STANDARD INDUSTRIAL CLASS	TSMCIC	TSMCIC				The Standard Industrial Classification code (SIC) is the statistical classification standard underlying all establishment-based Federal economic statistics classified by industry. The SIC is used to promote the comparability of establishment data describing various facets of the U.S. Economy. The classification scheme covers the entire field of economic activities and defines industries in accordance with the composition and structure of the economy. Source: Preface to SIC code book developed by the Technical Committee on Industrial Classification, Office of Management and Budget.	
Column	2	Station - Facility	STANDARD INDUSTRIAL CLASS	TSMCIC	TSMCIC_CODE	Char	4	Not Null	The CODE that represents the STANDARD INDUSTRIAL CLASS. This table (TSMCIC) defines the domain of valid SIC Codes.	
Column	3	Station - Facility	STANDARD INDUSTRIAL CLASS	TSMCIC	TSMCIC_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station - Facility	STANDARD INDUSTRIAL CLASS	TSMCIC	NAME	Varchar2	120	Not Null	The NAME of the STANDARD INDUSTRIAL CLASS. NOTE: A FACILITY may have more than one SIC.	
Column	5	Station - Facility	STANDARD INDUSTRIAL CLASS	TSMCIC	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	6	Station - Facility	STANDARD INDUSTRIAL CLASS	TSMCIC	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	DBA	SERIAL_ORG_IDENTIFICATION	TSMISOI	TSMISOI				This entity is used to keep track of Organizations distributed from central on CDROM (or other packaging medium) to each location. It is also used by each location for purposes of specifying which Organizations they wish to have updated for each full export back to central. TSMISOI contains one row for each Organization Code Registered to a single field copy of STORET. Upon export, the rows contain the date of the export, and a Y/N flag indicating whether a single Organization is to be placed in public view on the web version of STORET.	
Column	2	DBA	SERIAL_ORG_IDENTIFICATION	TSMISOI	TSMISOI_SERIAL_ID	Number	7	Not Null	The Serial identification of the CDROM or other packaging medium to be sent to each location.	Integer number 1-9999999
Column	3	DBA	SERIAL_ORG_IDENTIFICATION	TSMISOI	TSMISOI_ORG_ID	Char	8	Not Null	An Organization that is distributed as part of an activation disk to a particular location.	
Column	4	DBA	SERIAL_ORG_IDENTIFICATION	TSMISOI	ACTIVITY_DATE	Date	8	Null	The date in which the location submitted this Organization for replication to the central database.	
Column	5	DBA	SERIAL_ORG_IDENTIFICATION	TSMISOI	REPLICATION_FLAG	Char	1	Not Null	Used to indicate whether or not this Organization needs to be updated at the central database level.	
Column	6	DBA	SERIAL_ORG_IDENTIFICATION	TSMISOI	LINE_ONE_TEXT	Varchar2	40	Null	The first line of an Address which usually denotes the company or individual name.	
Column	7	DBA	SERIAL_ORG_IDENTIFICATION	TSMISOI	LINE_TWO_TEXT	Varchar2	40	Null	The second line of an Address usually denotes the mail routing code, p.o. box number, or suite but can also contain company name in addition.	
Column	8	DBA	SERIAL_ORG_IDENTIFICATION	TSMISOI	LINE_THREE_TEXT	Varchar2	40	Null	The third line of an Address usually denotes the street address including street name and type, house/office number, or sector designation.	
Column	9	DBA	SERIAL_ORG_IDENTIFICATION	TSMISOI	LINE_FOUR_TEXT	Varchar2	40	Null	The name of the city in an Address.	
Column	10	DBA	SERIAL_ORG_IDENTIFICATION	TSMISOI	COMMENTS	Varchar2	254	Null	Comments placed by the EPA STORET Staff person who assigns this Organization ID to this copy of STORET.	
Column	11	DBA	SERIAL_ORG_IDENTIFICATION	TSMISOI	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	12	DBA	SERIAL_ORG_IDENTIFICATION	TSMISOI	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Spring	SPRING_STATION	TMSMPRNG	TMSMPRNG				A discrete place where ground water flows naturally from a rock or the soil onto the land surface or into a body of surface water.	
FK Column	2	Station - Spring	SPRING_STATION	TMSMPRNG	TSMSTATN_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
FK Column	3	Station - Spring	SPRING_STATION	TMSMPRNG	TSMSTATN_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station - Spring	SPRING_STATION	TMSMPRNG	PERMANENCE_CODE	Char	12	Null	The code that describes the flow frequency of a Spring, e.g. continuous, intermittent.	Continuous (Flow from the spring occurs at all times, without interruption.); Perennial (Flow from the spring occurs in all seasons, but is not continuous.); Ephemeral (Flow from the spring is difficult to predict, occurring infrequently and at irregular intervals.); Intermittent (Flow from the spring is periodic or sporadic, interrupted in a somewhat predictable manner.); <Spaces>
Column	5	Station - Spring	SPRING_STATION	TMSMPRNG	IMPROVEMENT_CODE	Char	14	Not Null	The code that describes the man-made improvement made to the Spring.	Collection Box (COLLECTION BOX); Dam (DAM); Pipe (PIPE); None (NONE)
Column	6	Station - Spring	SPRING_STATION	TMSMPRNG	OTHR_GEO_UNIT_NM	Varchar2	120	Not Null	An alternative or colloquial name used to further identify the Geologic Unit or Aquifer which feeds the spring.	
Column	7	Station - Spring	SPRING_STATION	TMSMPRNG	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	8	Station - Spring	SPRING_STATION	TMSMPRNG	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	9	Station - Spring	SPRING_STATION	TMSMPRNG	TSMGEOUN_CD	Char	12	Null	The foreign key to TSMGEOUN implements "One Geologic Unit may be linked to one or more Spring Stations."	Key must pre-exist in TSMGEOUN.
FK Column	10	Station - Spring	SPRING_STATION	TMSMPRNG	TSMGEOUN_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMGEOUN.	
FK Column	11	Station - Spring	SPRING_STATION	TMSMPRNG	TSMMLTHUN_CD	Char	12	Null	The foreign key to TSMMLTHUN implements "One Lithologic Unit may be linked to one or more Spring Stations."	Key must pre-exist in TSMMLTHUN.
FK Column	12	Station - Spring	SPRING_STATION	TMSMPRNG	TSMMLTHUN_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMMLTHUN.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station	STATION	TSMSTATN	TSMSTATN				The location of the sample collection, measurement, or observation. May be an area or point. A Station must include at least one latitude/longitude point and may include many latitude/longitude points. In surface water monitoring, Station may be part of a network of stations in a stream, lake, or river. For ocean monitoring, Sampling Station may be a point at sea defined by latitude, longitude, and depth. For groundwater monitoring, a Sampling Station is a well that may be identified by name, number, latitude, longitude, and depth. For biological monitoring, a Station may be a sample area plus or minus X yards from the Station or a lat/long range. (There may be some unique data requirements for identifying Station for biological samples.) Note that Permit number, Program name, and Pipe identification number are part of the external reference scheme for a Station and not considered part of the Station itself.	
Column	2	Station	STATION	TSMSTATN	TSMSTATN_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Station	STATION	TSMSTATN	TSMSTATN_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station	STATION	TSMSTATN	IDENTIFICATION_CD	Char	15	Not Null	The alpha-numeric code assigned by the owning Organization which uniquely identifies the Station within the Organization.	
Column	5	Station	STATION	TSMSTATN	EPA_KEY_IDENTIFIER	Varchar2	36	Null	The alpha-numeric code optionally assigned by EPA to this site, indicating its participation in EPA's Facility Indexing System.	
Column	6	Station	STATION	TSMSTATN	NAME	Varchar2	60	Null	The name by which an Organization refers to a Station.	
Column	7	Station	STATION	TSMSTATN	SEARCH_NAME	Varchar2	60	Null	The name by which an Organization refers to a Station. For unambiguous search results, always contains the all upper-case form of the Name.	
Column	8	Station	STATION	TSMSTATN	ESTABLISHMENT_DATE	Date	8	Null	The date (in format MM-DD-YYYY) the Station was established.	
Column	9	Station	STATION	TSMSTATN	ZID_RELATION_CODE	Char	2	Null	The code that represents the location of a Station to the Zone of Initial Dilution (ZID). This code applies to the Clean Water Act section 301(h) waived Publicly Owned Treatment Works (POTW) Monitoring Programs.	WZ (Within ZID); AB (At boundary of ZID); NF (NEAR FIELD); FF (FAR FIELD); RF (REFERENCE); <Spaces>
Column	10	Station	STATION	TSMSTATN	INFLUENCE_AREA	Varchar2	120	Null	This text describes the area of a river or lake represented by a sampling Station. This description applies to the Clean Water Act section 305 (b) assessments. Example: This Station represents the water quality observed five miles upstream and downstream.	
Column	11	Station	STATION	TSMSTATN	DESCRIPTION_TEXT	Long	4000	Null	The Organization user-defined description of a Station. May include distance to left shore or right shore to the Station.	
Column	12	Station	STATION	TSMSTATN	TRAVEL_DIR_TXT	Varchar2	1999	Null	A description of the route, track or path used to travel to a Station. Directions typically include highway names and may use prominent physical landmarks in more remote areas.	

Column	13	Station	STATION	TSMSTATN	WATER_DEPTH	Number	8,3	Null	The measure indicating the total depth of the water that is typical of the Station, irrespective of tidal stage. This measure is expressed in inches, centimeters, feet, meters, miles or kilometers.	
Column	14	Station	STATION	TSMSTATN	WATER_DEPTH_UNIT	Char	2	Null	The code that represents the units in which a Station's water depth is expressed.	m (Meters); ft (Feet); km (Kilometers); mi (Miles); in (Inches); cm (Centimeters); <Spaces>
Column	15	Station	STATION	TSMSTATN	ECOREGION_NAME	Varchar2	60	Null	The name of the ecoregion in which the Station is located. Examples: 1) Coast range 2) Puget lowlands 3) Cascades	
Column	16	Station	STATION	TSMSTATN	D_COMPLETE_FLAG	Char	1	Not Null	A flag indicating if a Station has the "complete" information required. The complete rules are as follows: A Station is complete only if the proper location information has been supplied. Users must supply each Station with "Point of Record" that is designated by latitude and longitude (e.g. an ABSOLUTE LOCATION POINT) and associated with a County and State. Exceptions include Ocean, Great Lakes, and Estuary where only the State and Point of Record are required. NOTE: Data can only be entered for Stations which are complete. Only complete Stations can be assigned a Project(s).	Y (yes); N (no);
Column	17	Station	STATION	TSMSTATN	D_DELETE_FLAG	Char	1	Not Null	A flag which indicates whether or not a Station has been marked to deletion. A station marked for deletion can no longer be updated. Stations marked for deletion may be restored, or finally deleted, within the data administration functions of STORET.	Y (yes); N (no);
Column	18	Station	STATION	TSMSTATN	D_LAST_STN_UPDT_TS	Date	20	Null	The timestamp that indicates when information relating to the STATION was updated.	
Column	19	Station	STATION	TSMSTATN	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	20	Station	STATION	TSMSTATN	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
Column	21	Station	STATION	TSMSTATN	BLOB_TYPE	Char	3	Null	A station may be further described by a Binary Large Object, or BLOB. The BLOB may be a document or a graphic object. This field defines the type of BLOB which further defines this station. A foreign key in TSMBLOB identifies the BLOB which is linked to the Station.	JPG; BMP; GIF; TXT; PDF; <Spaces>
Column	22	Station	STATION	TSMSTATN	BLOB_TITLE	Varchar2	60	Null	User-defined Title defining or describing the BLOB Content.	
FK Column	23	Station	STATION	TSMSTATN	TSMORGAN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMORGAN implements "One Organization may have many Stations."	Key must pre-exist in TSMORGAN.
FK Column	24	Station	STATION	TSMSTATN	TSMVSTC_IS_NUMBER	Number	12,0	Null	The foreign key to TSMVSTC implements "One Valid Station Type Code Combination may be assigned to many Stations."	Key must pre-exist in TSMVSTC.
FK Column	25	Station	STATION	TSMSTATN	TSMVSTC_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMVSTC.	



Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	DBA	USER_ORGANIZATION_ASSIGNMENT	TSMUOA	TSMUOA				An occurrence of this entity is used to determine STORET User access to a given Organization. User IDs and passwords are assigned and controlled by the Oracle Database Administrator (DBA). The STORET System Administrator will indicate which STORET Organizations a particular Oracle User can update. When an Organization is selected, an occurrence of this entity is created. Assumption: Every user will be given read access throughout the application.	
FK Column	2	DBA	USER_ORGANIZATION_ASSIGNMENT	TSMUOA	TSMORGAN_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMORGAN implements "One Organization may be linked to the privileges of many Users."	The key must pre-exist in TSMORGAN.
FK Column	3	DBA	USER_ORGANIZATION_ASSIGNMENT	TSMUOA	TSMUSER_USERID	Char	8	Not Null	The foreign key to TSMUSER implements "One User may have privileges linked to many Organizations."	The key must pre-exist in TSMUSER.
Column	4	DBA	USER_ORGANIZATION_ASSIGNMENT	TSMUOA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	5	DBA	USER_ORGANIZATION_ASSIGNMENT	TSMUOA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	DBA	STORET_USER	TSMUSER	TSMUSER				A registered user of the STORET application.	
Column	2	DBA	STORET_USER	TSMUSER	TSMUSER_USERID	Char	8	Not Null	The ID used at Oracle login to identify this user.	
Column	3	DBA	STORET_USER	TSMUSER	FIRST_NAME	Varchar2	30	Not Null	First Name of the registered user.	
Column	4	DBA	STORET_USER	TSMUSER	LAST_NAME	Varchar2	40	Not Null	Last Name of the registered user.	
Column	5	DBA	STORET_USER	TSMUSER	ROLE	Char	1	Not Null	Role of the user (either Regular or System Administrator) used to navigate through the system. Only System Administrators can access the System Administration functions. Regular users can access the rest of the application. User and Role information can only be changed by STORET System Administrators.	C (Central Supervisor/user - system administrator at central level); R (Regular user, not System Administrator); S (System Administrator at local level)
Column	6	DBA	STORET_USER	TSMUSER	COMMENT_TEXT	Varchar2	254	Null	Optional text describing the User and/or Role.	
Column	7	DBA	STORET_USER	TSMUSER	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	8	DBA	STORET_USER	TSMUSER	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Project	VOUCHER_SPECIMEN_COLLECTION	TSMVSC	TSMVSC				A Voucher Specimen is a specimen or material used to define a species. The Voucher Specimen Collection is used by a program or special study to verify taxonomic identifications. A voucher specimen is used as a "standard" against which all other specimens or samples are compared for the purpose of taxonomic identification. For example, the Smithsonian maintains a large collection of voucher specimens so that researchers can compare organisms collected in the field to the "standard" of the museum.	
Column	2	Project	VOUCHER_SPECIMEN_COLLECTION	TSMVSC	TSMVSC_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Project	VOUCHER_SPECIMEN_COLLECTION	TSMVSC	TSMVSC_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Project	VOUCHER_SPECIMEN_COLLECTION	TSMVSC	NAME	Varchar2	60	Not Null	The name of the Voucher Specimen Collection. For example, the Canadian National Collection.	
Column	5	Project	VOUCHER_SPECIMEN_COLLECTION	TSMVSC	DESCRIPTION_TEXT	Varchar2	254	Null	Description of the Voucher Specimen Collection. For example: Lepidoptera of South Central Canada	
Column	6	Project	VOUCHER_SPECIMEN_COLLECTION	TSMVSC	CONTACT_PRSN_NAME	Varchar2	60	Null	The name of the contact person for the Voucher Specimen Collection.	
Column	7	Project	VOUCHER_SPECIMEN_COLLECTION	TSMVSC	LOCATION_DESC_TEXT	Varchar2	254	Null	The shipping/mailling address of the location of the Voucher Specimen Collection.	
Column	8	Project	VOUCHER_SPECIMEN_COLLECTION	TSMVSC	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	9	Project	VOUCHER_SPECIMEN_COLLECTION	TSMVSC	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	10	Project	VOUCHER_SPECIMEN_COLLECTION	TSMVSC	TSMPROJ_IS_NUMBER	Number	12,0	Null	The foreign key to TSMPROJ implements "One Project may have one or more Voucher Specimen Collections."	Key must pre-exist in TSMPROJ.
FK Column	11	Project	VOUCHER_SPECIMEN_COLLECTION	TSMVSC	TSMPROJ_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPROJ.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station	VALID_STATION_TYPE_COMBINATION	TSMVSTC	TSMVSTC				Valid combinations of primary and secondary station designations. This replaces the Type Code in Station. This table defines the domain of valid values for Station Types and Station Type Combinations.	
Column	2	Station	VALID_STATION_TYPE_COMBINATION	TSMVSTC	TSMVSTC_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Station	VALID_STATION_TYPE_COMBINATION	TSMVSTC	TSMVSTC_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station	VALID_STATION_TYPE_COMBINATION	TSMVSTC	PRIMARY_TYPE_CD	Varchar2	30	Not Null	The code that represents the primary type designation of a Station.	
Column	5	Station	VALID_STATION_TYPE_COMBINATION	TSMVSTC	SECONDARY_TYPE_CD	Varchar2	30	Null	The code that represents the secondary type designation of a Station. Not every combination requires a Secondary Type.	
Column	6	Station	VALID_STATION_TYPE_COMBINATION	TSMVSTC	NATURAL_IND_CD	Char	1	Not Null	Indicates (Yes or No) whether the station is located in a natural or a man-made area. For example, a Lake is natural, a reservoir is man-made.	Y (YES - IS NATURAL); N (NO - IS MAN-MADE, NOT NATURAL);
Column	7	Station	VALID_STATION_TYPE_COMBINATION	TSMVSTC	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	8	Station	VALID_STATION_TYPE_COMBINATION	TSMVSTC	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Well	WELL_STATION	TSMWELL	TSMWELL				A shaft or pit dug into the earth for the extraction of water. It may contain several predefined sampling points which are distinguished by depth. A STORET station (site) may be comprised of several well stations (individual wells), as in a well field. Note: Some organizations consider different depths as separate Stations.	
Column	2	Station - Well	WELL_STATION	TSMWELL	TSMWELL_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Station - Well	WELL_STATION	TSMWELL	TSMWELL_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station - Well	WELL_STATION	TSMWELL	ID_NUMBER	Char	15	Not Null	The user-assigned number that uniquely identifies each Well associated with a Well type Station.	
Column	5	Station - Well	WELL_STATION	TSMWELL	NAME	Varchar2	40	Not Null	The name of the Well. User defined text.	
Column	6	Station - Well	WELL_STATION	TSMWELL	USE_CODE	Varchar2	30	Not Null	The code that describes the use of the Well - not to be confused with the use of the Water from the Well.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSMWELL, and FIELD_NAME=USE_CODE.
Column	7	Station - Well	WELL_STATION	TSMWELL	PRTCTN_AREA_NAME	Varchar2	40	Null	The name of the well head protection area.	
Column	8	Station - Well	WELL_STATION	TSMWELL	DEVELOPMNT_MTHD_CD	Varchar2	20	Null	The code that identifies the method by which the Well was brought into production, i.e. developed, after it was constructed.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSMWELL, and FIELD_NAME=DEVELOPMNT_MTHD_CD.
Column	9	Station - Well	WELL_STATION	TSMWELL	CONSTRUCTN_MTHD_CD	Varchar2	20	Null	The code that identifies the method used to create the borehole in which the Well will be constructed.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSMWELL, and FIELD_NAME=CONSTRUCTN_MTHD_CD.
Column	10	Station - Well	WELL_STATION	TSMWELL	WTR_PRIMARY_USE_CD	Varchar2	19	Null	The code that represents the main use of water from a Well.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSMWELL, and FIELD_NAME=WTR_PRIMARY_USE_CD.
Column	11	Station - Well	WELL_STATION	TSMWELL	GRADIENT_TYPE_CODE	Char	13	Null	The code that describes the relation of the Well to the topography surrounding a source of contamination. This code is applied to Wells whose Well Use is the monitoring of a known source of potential ground water contamination. For example, RCRA regulations require that Wells be placed upgradient and downgradient from known contamination sources.	Upgradient (UPGRADIENT); Downgradient (DOWNGRADIENT); Crossgradient (CROSSGRADIENT); Unknown (UNKNOWN); <Spaces>
Column	12	Station - Well	WELL_STATION	TSMWELL	DEPTH_TO_BEDROCK	Number	8,3	Null	The depth at which the well intercepts the bedrock.	
Column	13	Station - Well	WELL_STATION	TSMWELL	DEPTH_BEDROCK_UNIT	Char	3	Null	The Units in which the depth to bedrock is expressed.	m (METERS); ft (FEET); <Spaces>
Column	14	Station - Well	WELL_STATION	TSMWELL	DEPTH_OF_UNCONS_MTL	Number	8,3	Null	The depth of unconsolidated material through which the well is drilled or bored.	
Column	15	Station - Well	WELL_STATION	TSMWELL	DEPTH_UNCONS_UNIT	Char	3	Null	The units in which the depth of unconsolidated material is expressed.	m (METERS); ft (FEET); <Spaces>
Column	16	Station - Well	WELL_STATION	TSMWELL	DEPTH_CMPLTN_MSR	Number	8,3	Null	The measure indicating the total depth of the Well upon completion of construction expressed in feet or meters.	
Column	17	Station - Well	WELL_STATION	TSMWELL	DPHT_CMPLTN_UNT_CD	Char	3	Null	The units in which a Well's depth-at-completion is expressed.	m (METERS); ft (FEET); <Spaces>
Column	18	Station - Well	WELL_STATION	TSMWELL	DEPTH_OF_HOLE_MSR	Number	8,3	Null	The measure of the depth of the borehole in feet or meters prior to Well construction.	
Column	19	Station - Well	WELL_STATION	TSMWELL	DEPTH_HOLE_UNT_CD	Char	3	Null	The units in which a Well's depth-of-hole is expressed.	m (METERS); ft (FEET); <Spaces>
Column	20	Station - Well	WELL_STATION	TSMWELL	WELL_HEAD_HT_MSR	Number	8,3	Null	The measure indicating the height of the well head expressed in feet or meters.	

Column	21	Station - Well	WELL_STATION	TSMWELL	WL_HD_HT_UNIT_CD	Char	3	Null	The units in which a well head's height is expressed.	m (METERS); ft (FEET); <Spaces>
Column	22	Station - Well	WELL_STATION	TSMWELL	CASING_HGT_MSR	Number	8,3	Null	The measure indicating the height of the well head expressed in feet or meters.	
Column	23	Station - Well	WELL_STATION	TSMWELL	CASING_HGT_UNIT_CD	Char	3	Null	The units in which a well head's height is expressed.	m (METERS); ft (FEET); <Spaces>
Column	24	Station - Well	WELL_STATION	TSMWELL	DISINFECTD_IND_CD	Char	1	Null	The code that indicates if a Well has been disinfected at time of completion.	Y (yes); N (no); <spaces>
Column	25	Station - Well	WELL_STATION	TSMWELL	CONSTRUCTN_STRT_DT	Date	8	Null	The date (in format MM-DD-YYYY) the borehole excavation began.	
Column	26	Station - Well	WELL_STATION	TSMWELL	CONSTRUCTN_END_DT	Date	8	Null	The date (in format MM-DD-YYYY) that construction was completed on the Well or borehole.	
Column	27	Station - Well	WELL_STATION	TSMWELL	INIT_PUMP_DUR	Number	4,1	Null	The duration of initial pumping that occurs at the Well or borehole at the end of construction, prior to production.	
Column	28	Station - Well	WELL_STATION	TSMWELL	INT_PMP_DUR_UNT_CD	Char	10	Null	The code that represents the units in which a Well's initial pumping duration is expressed.	days (DAYS); hours (HOURS); minutes (MINUTES); <Spaces>
Column	29	Station - Well	WELL_STATION	TSMWELL	INIT_PUMP_RATE	Number	4	Null	The initial pumping rate measurement expressed in gallons per minute, gallons per hour, gallons per day, cubic feet per second, liters per minute, liters per hour.	
Column	30	Station - Well	WELL_STATION	TSMWELL	INT_PMP_RAT_UNT_CD	Char	10	Null	The code that represents the volumetric and time units associated with the Well's initial pumping rate.	gal/day (GALLONS PER DAY); 1/hr (LITERS PER HOUR); gal/hr (GALLONS PER HOUR); gal/min (GALLONS PER MINUTE); 1/min (LITERS PER MINUTE); cfs (CUBIC FEET PER SECOND); <Spaces>
Column	31	Station - Well	WELL_STATION	TSMWELL	NATURL_FLOW_IND_CD	Char	1	Null	The code that indicates if flow from the Well is natural (i.e., unassisted by man-made devices, artesian).	Y (yes); N (no); <spaces>
Column	32	Station - Well	WELL_STATION	TSMWELL	STATUS_CODE	Char	9	Not Null	The code that describes the status of the Well.	Active (ACTIVE); Abandoned (ABANDONED)
Column	33	Station - Well	WELL_STATION	TSMWELL	INIT_BOREHOLE_DIAM	Number	5,2	Null	The measure at the surface of the diameter of the borehole expressed in centimeters, feet, inches, or meters.	
Column	34	Station - Well	WELL_STATION	TSMWELL	INIT_BHOLE_DIAM_UN	Char	3	Null	The units in which the initial diameter of the borehole is expressed.	ft (FEET); m (METERS); cm (CENTIMETERS); in (INCHES); <Spaces>
Column	35	Station - Well	WELL_STATION	TSMWELL	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	36	Station - Well	WELL_STATION	TSMWELL	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	37	Station - Well	WELL_STATION	TSMWELL	TSMSTATN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMSTATN implements "One Station (of type "WELL") may have many Wells."	Key must pre-exist in TSMSTATN.
FK Column	38	Station - Well	WELL_STATION	TSMWELL	TSMSTATN_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMSTATN.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station - Well	WELL_LEGAL_ENTITY	TSMWLE	TSMWLE				The identification and addresses of persons or organizations with certain formal interests in the well.	
FK Column	2	Station - Well	WELL_LEGAL_ENTITY	TSMWLE	TSMWELL_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMWELL implements "One Well may have one or more Well Legal Entities."	Key must pre-exist in TSMWELL.
FK Column	3	Station - Well	WELL_LEGAL_ENTITY	TSMWLE	TSMWELL_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMWELL.	
Column	4	Station - Well	WELL_LEGAL_ENTITY	TSMWLE	TSMWLE_TYPE_NAME	Char	8	Not Null	This is the nature of the interest held in the well by the person or organization described in the address. Values include Owner, Operator, Driller.	Driller -The individual or organization which drilled (created) the well.; Owner -The individual or organization which owns the well.; Operator -The individual or organization which operates and maintains the well.
Column	5	Station - Well	WELL_LEGAL_ENTITY	TSMWLE	NAME	Varchar2	30	Not Null	The name of the person or organization with specific interest in the well.	
Column	6	Station - Well	WELL_LEGAL_ENTITY	TSMWLE	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Station - Well	WELL_LEGAL_ENTITY	TSMWLE	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	ACTUAL_ACTIVITY_LOCATION	TSRAAL	TSRAAL				Actual Activity Location. Additional information describing the location where a given Field Activity took place. If the Field Activity did not take place at an Absolute Location Point, the Additional Location Information might include the distance, bearing and vector from a known Absolute Location Point.	
FK Column	2	Field Activity	ACTUAL_ACTIVITY_LOCATION	TSRAAL	TSMALP_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMALP implements "One Absolute Location Point may be the actual location where one or more Field Activities occurred."	Key must pre-exist in TSMALP.
FK Column	3	Field Activity	ACTUAL_ACTIVITY_LOCATION	TSRAAL	TSMALP_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMALP.	
FK Column	4	Field Activity	ACTUAL_ACTIVITY_LOCATION	TSRAAL	TSRFDACT_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMFDACT implements "One Field Activity may be further located by association to an actual activity location."	Key must pre-exist in TSRFDACT.
FK Column	5	Field Activity	ACTUAL_ACTIVITY_LOCATION	TSRAAL	TSRFDACT_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRFDACT.	
Column	6	Field Activity	ACTUAL_ACTIVITY_LOCATION	TSRAAL	TSRAAL_TYPE_NAME	Char	15	Not Null	The name of the type of the Actual Location Point.	Trawl Start (Identifies the location at which a trawl or horizontal tow began); Trawl Stop (Identifies the location at which a trawl or horizontal tow ended); General (all other locations);
Column	7	Field Activity	ACTUAL_ACTIVITY_LOCATION	TSRAAL	BOTTOM_DEPTH_MSR	Number	7,2	Null	The measure of the distance from the surface to the bottom.	
Column	8	Field Activity	ACTUAL_ACTIVITY_LOCATION	TSRAAL	BOTTOM_DEPTH_UN_CD	Char	3	Null	The code that represents the units in which the bottom depth is expressed.	m (METERS); ft (FEET); <Spaces>
Column	9	Field Activity	ACTUAL_ACTIVITY_LOCATION	TSRAAL	ADDTNL_LOC_INFO	Varchar2	254	Null	User supplied free text providing additional information as to the actual location of the Field Activity.	
Column	10	Field Activity	ACTUAL_ACTIVITY_LOCATION	TSRAAL	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	11	Field Activity	ACTUAL_ACTIVITY_LOCATION	TSRAAL	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	



Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	TSRADL				An instance of this entity documents the deployment or installation of a specific automated data logger at a specific station. Data logger operating periods can then become the child records of this entity.	
Column	2	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	TSRADL_IS_NUMBER	Number	12,0	Not Null	A system-generated value.	Integer non-intelligent key.
Column	3	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	TSRADL_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	ID_CODE	Char	8	Not Null	The Organization-assigned code that will identify this specific installation or deployment of this specific data logger at this specific site. Must be unique within the Organization.	
Column	5	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	MEDIUM_TYPE_NAME	Varchar2	20	Not Null	The name of the medium or matrix where the Field Activity occurred.	Air (Activity represents air); Sediment (Activity represents physical or chemical characteristics of sediment at the bottom of a water body); Water (Activity represents the physical or chemical composition of the water at the monitoring site); Soil (Activity represents soil at the monitoring site); Other (Specify Sample Matrix); <Spaces>
Column	6	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	SERIAL_NUMBER	Char	10	Null	Manufacturer's Serial Number for the deployed Data Logger.	
Column	7	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	MODEL	Varchar2	30	Null	Manufacturers Unit Type or Model Name.	
Column	8	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	MAKE	Varchar2	30	Null	Name or Brand of Manufacture.	
Column	9	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	INSTALL_DATE	Date	8	Not Null	Date that the Data Logger was Deployed/Installed at the site.	
Column	10	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	INSTALL_TIME	Date	6	Null	Time of Day that the data logger was installed/deployed at the site.	
Column	11	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	DEPARTURE_DATE	Date	8	Null	Date that the data logger was removed or uninstalled.	
Column	12	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	REMOVAL_TIME	Date	6	Null	Time of day that the data logger was removed or uninstalled.	
Column	13	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	COMMENT_TEXT	Varchar2	254	Null	Text comments concerning the deployment of the data logger at the site.	
Column	14	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	15	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	16	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	TSMSTATN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMSTATN implements "One Station may have one or more data logger installations."	
FK Column	17	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	TSMSTATN_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMSTATN.	
FK Column	18	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	TSRMATRX_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMATRX.	
FK Column	19	Data Logger	AUTOMATED_DATA_LOGGER	TSRADL	TSRMATRX_IS_NUMBER	Number	12,0	Null	The foreign key to TSMATRX implements "One Sample Matrix may be associated with many Data Logger Deployments."	Key must pre-exist in TSMATRX.

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Results	ANALYTICAL_EQUIPMENT	TSTRANLEQ	TSTRANLEQ				The primary piece of equipment employed by the Analytical Procedure which is responsible for the result value for the target Characteristic(s).	
Column	2	Results	ANALYTICAL_EQUIPMENT	TSTRANLEQ	TSTRANLEQ_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Results	ANALYTICAL_EQUIPMENT	TSTRANLEQ	TSTRANLEQ_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Results	ANALYTICAL_EQUIPMENT	TSTRANLEQ	TYPE_NAME	Varchar2	32	Not Null	The name of the class or category of analytical equipment.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSTRANLEQ, and FIELD_NAME=TYPE_NAME.
Column	5	Results	ANALYTICAL_EQUIPMENT	TSTRANLEQ	NAME	Varchar2	60	Not Null	The name of the analytical equipment (e.g., an equipment model name).	
Column	6	Results	ANALYTICAL_EQUIPMENT	TSTRANLEQ	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Results	ANALYTICAL_EQUIPMENT	TSTRANLEQ	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Results	ANALYTICAL_PROCEDURE	TSRANLPR	TSRANLPR				Analytical Procedures may be National or Org-Specific; both types must have a Citation. Results for Chemical Characteristics must be assigned to an Analytical Procedure that has Analytical Equipment. Methodology guidelines used to obtain a Result. An analytical procedure may be cited in a formal reference document and/or may be associated with a piece of analytical equipment. The Analytical Procedure will contain field and lab analytical procedures. This table defines the domain of valid values used to qualify environmental results with lab or field methods.	
Column	2	Results	ANALYTICAL_PROCEDURE	TSRANLPR	TSRANLPR_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Results	ANALYTICAL_PROCEDURE	TSRANLPR	TSRANLPR_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Results	ANALYTICAL_PROCEDURE	TSRANLPR	OWNER_TYPE_CODE	Char	3	Not Null	The code that represents the type of organization that owns the analytical procedure.	NAT (National. The procedures ID and Description are owned by STORET Central Staff); ORG (Organization. The procedure ID and description are owned by the contributing Organization);
Column	5	Results	ANALYTICAL_PROCEDURE	TSRANLPR	PROCEDURE_ID	Char	15	Not Null	The abbreviated name or identifying code of the analytical procedure.	
Column	6	Results	ANALYTICAL_PROCEDURE	TSRANLPR	NAME	Varchar2	120	Not Null	The full title of the analytical procedure.	
Column	7	Results	ANALYTICAL_PROCEDURE	TSRANLPR	SOURCE_NAME	Varchar2	65	Not Null	The name of the Analytical Procedure Owner. Examples include the American Society for Testing Materials, the United States Geological Survey, and the Environmental Protection Agency.	
Column	8	Results	ANALYTICAL_PROCEDURE	TSRANLPR	SOURCE_ACR	Char	12	Null	An abbreviation or acronym identifying the Organization that owns the analytical procedure. Examples include ASTM, USGS, and EPA, among others.	
Column	9	Results	ANALYTICAL_PROCEDURE	TSRANLPR	DESCRIPTION_TEXT	Long	4000	Null	A long description that provides further information about the Field/Lab Analytical Procedure.	
Column	10	Results	ANALYTICAL_PROCEDURE	TSRANLPR	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	11	Results	ANALYTICAL_PROCEDURE	TSRANLPR	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	12	Results	ANALYTICAL_PROCEDURE	TSRANLPR	TSRCITN_IS_NUMBER	Number	12,0	Null	The foreign key to TSRCITN implements "One Literature Citation may describe many Analytical Procedures."	Key must pre-exist in TSRCITN.
FK Column	13	Results	ANALYTICAL_PROCEDURE	TSRANLPR	TSRCITN_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRCITN.	
FK Column	14	Results	ANALYTICAL_PROCEDURE	TSRANLPR	TSRANLPROIS_NUMBER	Number	12,0	Null	The foreign key to TSRANLPR implements "One Analytical Procedure may be the National Model for one or more Organization Analytical Procedures."	Key must pre-exist in TSRANLPR.
FK Column	15	Results	ANALYTICAL_PROCEDURE	TSRANLPR	TSRANLPROORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRANLPR.	
FK Column	16	Results	ANALYTICAL_PROCEDURE	TSRANLPR	TSRANLEQ_IS_NUMBER	Number	12,0	Null	The foreign key to TSRANLEQ implements "One sort of Analytical Equipment may be used by one or more Analytical Procedures."	Key must pre-exist in TSRANLEQ.
FK Column	17	Results	ANALYTICAL_PROCEDURE	TSRANLPR	TSRANLEQ_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMANLEQ.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	BIOLOGICAL_PART	TSRBIOPT	TSRBIOPT				The portion of an organism on which analysis will be done.	
Column	2	Field Activity	BIOLOGICAL_PART	TSRBIOPT	TSRBIOPT_IS_NUMBER	Number	12,0	Not Null	A system-generated value.	Integer non-intelligent key.
Column	3	Field Activity	BIOLOGICAL_PART	TSRBIOPT	TSRBIOPT_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Field Activity	BIOLOGICAL_PART	TSRBIOPT	NAME	Varchar2	30	Not Null	The usual anatomical term which identifies the portion of an organism to be analyzed.	
Column	5	Field Activity	BIOLOGICAL_PART	TSRBIOPT	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	6	Field Activity	BIOLOGICAL_PART	TSRBIOPT	D_LAST_UPDT_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	BIOLOGICAL_RESULT_GROUP	TSRBRG	TSRBRG				Created when the organisms in a biological sample are grouped for enumeration and/or description purposes. The individuals in a single biological sample may be grouped and regrouped in many different ways. Examples include: 1. population census by taxon (non- duplicative species count) 2. Coliform bacteria census by taxon 3. Single taxon frequency class 4. Single taxon group summary 5. Single taxon individual	
Column	2	Field Activity	BIOLOGICAL_RESULT_GROUP	TSRBRG	TSRBRG_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Field Activity	BIOLOGICAL_RESULT_GROUP	TSRBRG	TSRBRG_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Field Activity	BIOLOGICAL_RESULT_GROUP	TSRBRG	ID_CODE	Char	8	Not Null	The user-assigned number that identifies a Result Group.	
Column	5	Field Activity	BIOLOGICAL_RESULT_GROUP	TSRBRG	TYPE_NAME	Varchar2	32	Not Null	The name of the kind of group. Examples include: 1. population census by taxon (non-duplicative species count) 2. Coliform bacteria census by taxon 3. Single taxon frequency class 4. Single taxon group summary 5. Single taxon individual	Multi-Taxon Population Census; Single Taxon Individuals; Single Taxon Frequency Classes; Single Taxon Group Summary;
Column	6	Field Activity	BIOLOGICAL_RESULT_GROUP	TSRBRG	TYPE_INDICATOR	Char	1	Null	This is used to determine whether or not Single Taxon Frequency Classes are defined by Physical Measures such as length or weight, or Biological Conditions such as sex or lifestage.	P (physical measures); B (Biological conditions); <spaces>
Column	7	Field Activity	BIOLOGICAL_RESULT_GROUP	TSRBRG	SEX_NAME	Char	15	Null	The sex of all organisms in the biological result group, when the group is Single Taxon Frequency Classes based on Physical measures.	
Column	8	Field Activity	BIOLOGICAL_RESULT_GROUP	TSRBRG	LIFE_STAGE_NAME	Varchar2	25	Null	The lifestage of all organisms in the biological result group, when the group is Single Taxon Frequency Classes based on Physical measures.	
Column	9	Field Activity	BIOLOGICAL_RESULT_GROUP	TSRBRG	VALUE_TYPE_NAME	Char	10	Null	A name that represents the process which was used in the determination of the Single Taxon Summary Group result value (e.g., actual, estimated, calculated).	Estimated; Calculated; Actual; <Spaces>
Column	10	Field Activity	BIOLOGICAL_RESULT_GROUP	TSRBRG	SUMMARY_GRP_COUNT	Number	8	Null	The total number of individuals in a Single Taxon Summary Group or Single Taxon Individual Group.	
Column	11	Field Activity	BIOLOGICAL_RESULT_GROUP	TSRBRG	DESCRIPTION_TEXT	Varchar2	1999	Null	Additional user-specified text describing the biological result group. Not intended to replace results with characteristics with text values.	
Column	12	Field Activity	BIOLOGICAL_RESULT_GROUP	TSRBRG	SPECIES_NUMBER	Char	8	Null	A number assigned as a part of a taxonomic identification. Used with a valid genus (or higher taxonomic rank) to indicate a unique species has been observed but not taxonomically identified (e.g., leptomis sp.1).	sp.1; sp.2; sp.3; ....sp.9; <spaces> (needed to permit clearing the field.)
Column	13	Field Activity	BIOLOGICAL_RESULT_GROUP	TSRBRG	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	14	Field Activity	BIOLOGICAL_RESULT_GROUP	TSRBRG	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	15	Field Activity	BIOLOGICAL_RESULT_GROUP	TSRBRG	TSRFDFACT_IS_NUMBER	Number	12,0	Null	The foreign key to TSRFDFACT implements "One Field Activity may be analyzed as many Biological Results Groupings."	Key must pre-exist in TSRFDFACT.
FK Column	16	Field Activity	BIOLOGICAL_RESULT_GROUP	TSRBRG	TSRFDFACT_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRFDFACT.	

FK Column	17	Field Activity	BIOLOGICAL_RESULT_GROUP	TSRBRG	TSRCHAR_IS_NUMBER	Number	12,0	Null	The foreign key to TSRCHAR implements "One Characteristic (taxonomic name) may be the subject taxon for many Biological Result Groups."	The key must pre-exist in TSRCHAR.
FK Column	18	Field Activity	BIOLOGICAL_RESULT_GROUP	TSRBRG	TSRCHAR_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRCHAR.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Results	BIO_RESULT_GROUP_INDIVIDUAL	TSRBREGI	TSRBREGI				System sequentially assigned numbers based upon the size of the group as reported by the user. This refers only to biological result groups of type Single Taxon Individuals.	
Column	2	Results	BIO_RESULT_GROUP_INDIVIDUAL	TSRBREGI	TSRBREGI_IS_NUMBER	Number	12,0	Not Null	A system-generated value.	Integer non-intelligent key.
Column	3	Results	BIO_RESULT_GROUP_INDIVIDUAL	TSRBREGI	TSRBREGI_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Results	BIO_RESULT_GROUP_INDIVIDUAL	TSRBREGI	INDIVIDUAL_NUMBER	Number	8	Not Null	System assigned sequence number to the individual in accordance with the total number of individuals reported by the user. Once assigned, this number does not change and cannot be changed/deleted. Each defined group of individuals gets an increasing series of "individual numbers" for the identification of individual specimens from the original group. Results then describe the specific individual.	
Column	5	Results	BIO_RESULT_GROUP_INDIVIDUAL	TSRBREGI	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	6	Results	BIO_RESULT_GROUP_INDIVIDUAL	TSRBREGI	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	7	Results	BIO_RESULT_GROUP_INDIVIDUAL	TSRBREGI	TSRBREGI_IS_NUMBER	Number	12,0	Null	The foreign key to TSRBRG implements "One Biological Result Group may consist of many Individuals."	Key must pre-exist in TSRBRG.
FK Column	8	Results	BIO_RESULT_GROUP_INDIVIDUAL	TSRBREGI	TSRBREGI_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRBRG.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Results	CHARACTERISTIC_ALIAS_TYPE	TSRCALT	TSRCALT				Characteristic Alias Type - reference table used to store alias types (e.g., EPA Chem ID) and for displaying and searching characteristics by alias type. This table defines the domain of valid Characteristic Alias Types for use with TSRCALS.	
Column	2	Results	CHARACTERISTIC_ALIAS_TYPE	TSRCALT	TSRCALT_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Results	CHARACTERISTIC_ALIAS_TYPE	TSRCALT	TSRCALT_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Results	CHARACTERISTIC_ALIAS_TYPE	TSRCALT	TYPE_NAME	Varchar2	30	Not Null	The name of the type of alternative naming scheme or generic category alias.	
Column	5	Results	CHARACTERISTIC_ALIAS_TYPE	TSRCALT	TYPE_CATEGORY	Char	2	Not Null	Category of alias type (i.e., Taxon or Non-Taxon)	NT (non-taxon); T (taxon);
Column	6	Results	CHARACTERISTIC_ALIAS_TYPE	TSRCALT	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Results	CHARACTERISTIC_ALIAS_TYPE	TSRCALT	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	



Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Organization - Defaults	CHARACTERISTIC_CHAR_GROUP_ASGNMT	TSRCCGA	TSRCCGA				Associates a characteristic with each characteristic group to which an organization assigns it. The same characteristic may be associated more than once to a characteristic group, to accommodate different sample fractions and so forth.	
Column	2	Organization - Defaults	CHARACTERISTIC_CHAR_GROUP_ASGNMT	TSRCCGA	TSRCCGA_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Organization - Defaults	CHARACTERISTIC_CHAR_GROUP_ASGNMT	TSRCCGA	TSRCCGA_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Organization - Defaults	CHARACTERISTIC_CHAR_GROUP_ASGNMT	TSRCCGA	SEQUENCE_NUMBER	Number	5	Not Null	The sequence number allows for both multiple occurrences of a characteristic in a group, and for a user-specified ordering of the list of characteristics in the group. Windows are equipped with CUT and PASTE AFTER functions to facilitate arrangement of the list by the user.	
Column	5	Organization - Defaults	CHARACTERISTIC_CHAR_GROUP_ASGNMT	TSRCCGA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	6	Organization - Defaults	CHARACTERISTIC_CHAR_GROUP_ASGNMT	TSRCCGA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	7	Organization - Defaults	CHARACTERISTIC_CHAR_GROUP_ASGNMT	TSRCCGA	TSRCHAR_IS_NUMBER	Number	12,0	Null	The foreign key to TSRCHAR implements "One Characteristic may participate in many Characteristic Groups."	Key must pre-exist in TSRCHAR.
FK Column	8	Organization - Defaults	CHARACTERISTIC_CHAR_GROUP_ASGNMT	TSRCCGA	TSRCHAR_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRCHAR.	
FK Column	9	Organization - Defaults	CHARACTERISTIC_CHAR_GROUP_ASGNMT	TSRCCGA	TSRCHGRP_IS_NUMBER	Number	12,0	Null	The foreign key to TSRCHGRP implements "One Characteristic Group may consist of many Characteristics."	Key must pre-exist in TSRCHGRP.
FK Column	10	Organization - Defaults	CHARACTERISTIC_CHAR_GROUP_ASGNMT	TSRCCGA	TSRCHGRP_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRCHGRP.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Results	CHARACTERISTIC_ALIAS	TSRCHALS	TSRCHALS				Reference table containing alternate names for characteristics and categories for which they are assigned. Category/Alias Examples: CAS number/XXX-XX-X, common name/round-up, trade name/Silvex, legacy STORET parameter code/1027	
FK Column	2	Results	CHARACTERISTIC_ALIAS	TSRCHALS	TSRCHAR_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRCHAR implements "One Characteristic may have many Aliases."	Key must pre-exist in TSRCHAR.
FK Column	3	Results	CHARACTERISTIC_ALIAS	TSRCHALS	TSRCHAR_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRCHAR.	
Column	4	Results	CHARACTERISTIC_ALIAS	TSRCHALS	TSRCHALS_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	5	Results	CHARACTERISTIC_ALIAS	TSRCHALS	TYPE_NAME	Varchar2	30	Not Null	The name of the type of alternative naming scheme or generic category alias. TO BE DELETED. REPLACED BY FOREIGN KEY TO TSRCALT.	
Column	6	Results	CHARACTERISTIC_ALIAS	TSRCHALS	NAME	Varchar2	500	Not Null	The alternative name/code for a characteristic. For those aliases which are cryptic, both the cryptic ID and its text meaning are placed here. For example, STORET Parameter Code 00010 will be entered: 00010 Water Temperature Deg. C.	
Column	7	Results	CHARACTERISTIC_ALIAS	TSRCHALS	SEARCH_NAME	Varchar2	500	Not Null	Same text as NAME, but in all upper case, for unambiguous search results.	
Column	8	Results	CHARACTERISTIC_ALIAS	TSRCHALS	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	9	Results	CHARACTERISTIC_ALIAS	TSRCHALS	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	10	Results	CHARACTERISTIC_ALIAS	TSRCHALS	TSRCALT_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRCALT.	
FK Column	11	Results	CHARACTERISTIC_ALIAS	TSRCHALS	TSRCALT_IS_NUMBER	Number	12,0	Null	The foreign key to TSRCALT implements "One Characteristic Alias Type may describe many Characteristic Aliases."	Key must pre-exist in TSRCALT.

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Results	CHARACTERISTIC	TSRCHAR	TSRCHAR				A Characteristic is the name of the "thing" being investigated. For example, in an analysis for phosphorus, the name of Characteristic is phosphorus. Examples of other Characteristics include chemicals, taxa, life stages, particle sizes, various lengths, volumes, masses, etc. Names of the subject of the result (i.e., analytes, constituents, parameters, etc.). For biological results, the scientific name of an observed taxon is the characteristic.	
Column	2	Results	CHARACTERISTIC	TSRCHAR	TSRCHAR_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Results	CHARACTERISTIC	TSRCHAR	TSRCHAR_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Results	CHARACTERISTIC	TSRCHAR	EXTRNL_SERIAL_NUM	Number	10,0	Null	A non-intelligent key by which this Characteristic is known in some other database, external to STORET. For example, the IT IS Taxon Serial Number, or TSN.	
Column	5	Results	CHARACTERISTIC	TSRCHAR	UOM_TYPE	Char	5	Not Null	The category that represents the broad class of a related set of units. Used to aid in minimizing choices when reporting the value of a characteristic, and to partially prevent invalid choices.	TEMP (Temperature measures); AREA (Area Measures. Sq. meters, hectares, etc.); VOL (Volume measures); VEL (Velocities); FLOW (Flow units. Volume rates); MISC (Miscellaneous. Items not covered elsewhere. Among other things, pressure, energy, electrical, light, etc.); TIME (Time. Hours, Minutes, fortnights, etc.); TAX (Taxonomic units. Counts, MPN, percents); LEN (Length); PROD (Productivity. Mass per unit of substance); SUBST (Substance. Units of mass, weight, and concentration); NONE (Characteristic does not have units, e.g. text, PV)
Column	6	Results	CHARACTERISTIC	TSRCHAR	SEARCH_NAME	Varchar2	60	Not Null	The standardized form of the name as determined by EPA for use in searching the list of environmental characteristics. All caps for consistent search results.	
Column	7	Results	CHARACTERISTIC	TSRCHAR	DISPLAY_NAME	Varchar2	60	Not Null	The name of the environmental characteristic as it is to be displayed on windows and reports.	

Column	8	Results	CHARACTERISTIC	TSRCHAR	D_SCR_TYPE_CD	Char	4	Not Null	The code that represents the screen or screens on which users will complete data entry for the characteristic. Information required differs among the screen types. The application displays different result/data entry screens depending on the value of the SCREEN TYPE CODE.	PHYS - Physical - Data entry screens will allow entry and description of characteristics of type "P" (physical), conveying physical measures such as distances, particle sizes, areas, and the metadata pertinent to such analysis.; TEXT - Text - The characteristic is reported as free text. Appropriate data entry screen is displayed.; CHEM - Chemical - Data entry screens will allow entry and description of substance-related (concentration and mass) values, and the metadata pertinent to such analysis.; PV - Permitted Value - Data entry screens display the range of permitted values defined for the characteristic, and permit the user to choose from among them.; TAXA - Taxonomic - Data entry screens relating to the reporting of taxonomic abundance, and the selection of subject taxa for individuals or groups.; VAR - Variable - These Characteristics apply to more than one type of result. For example, some Characteristics such as E. Coli are treated as both Chemical and Taxa.
Column	9	Results	CHARACTERISTIC	TSRCHAR	PROC_REQ_IND_CD	Char	1	Not Null	A code indicating whether an analytical procedure is required for a result for this Characteristic.	Y (yes. Analytical Procedure is required.) N (no. Analytical Procedure is NOT required.)
Column	10	Results	CHARACTERISTIC	TSRCHAR	VALID_FOR_QC_IND	Char	1	Null	A code indicating whether this Characteristic is a valid report for QC samples.	Y (yes); N (no);
Column	11	Results	CHARACTERISTIC	TSRCHAR	SAMP_FRAC_REQ_CD	Char	1	Not Null	A code indicating whether a sample fraction is required for this Characteristic. This will be used primarily for Chemical Characteristics.	Y (yes); N (no);
Column	12	Results	CHARACTERISTIC	TSRCHAR	CHAR_TYPE_CODE	Char	1	Not Null	A code indicating type of characteristic.	T - Taxon - Differentiates between "G" (general taxa) and "T" (true taxa). Only a characteristic of type "T" (taxon) may be the SUBJECT TAXON for a group of organisms or a tissue sample.; G - General taxonomic term - eg phytoplankton, coliform, bacteria. Biological terms in general usage to report species abundance or biomass.; O - Other - All characteristics not included in the remaining categories. Generally, characteristics which may be used in a variety of reporting scenarios.; P - Physical - Limits characteristics to those which can be used to describe biological individuals and single species groups of individuals. eg. length, girth, weight.; R - Retired Characteristics - These Characteristics should not be displayed on any Characteristic Selection List.
Column	13	Results	CHARACTERISTIC	TSRCHAR	TAXON_RANK_CODE	Char	8	Null	The code indicating the taxonomic rank of the Characteristic which is an organism. When displayed, the order must be "taxonomic", as follows: KNG Kingdom; PHY Phylum; DIV Division; SBP Subphylum; IFD Infradivision; SPC Superclass; IFC Infraclass; SPO Superorder; ORD Order; SBO Suborder; IFO Infraorder; COH Cohort; SEC Section; SPF Superfamily; FAM Family; SBF Subfamily; SPT Supertribe; TRI Tribe; SBT Subtribe; GEN Genus; SBG Subgenus; SPE Species; SSP Sub-species; VAR Variety	SPE Species.; SSP Sub-species; VAR Variety; GEN Genus; SBG Subgenus; SBT Subtribe; TRI Tribe; SPT Supertribe; SBF Subfamily; FAM Family; SPF Superfamily; COH Cohort; IFO Infraorder; SBO Suborder; SPO Superorder; IFC Infraclass; SBC Subclass; SPC Superclass; SBD Sub-division; SBP Sub-phylum; DIV Division (like Phylum, but for plants); FAM Family; ORD Order; CLS Class; PHY Phylum; KNG Kingdom; <Spaces>

Column	14	Results	CHARACTERISTIC	TSRCHAR	TRUE_NAME_TSN	Number	10,0	Null	For a Characteristic which is a Taxon, the ITIS Taxon Serial Number (TSN) of the Taxon with which it is a synonym. Null when Taxon is not a synonym.	
Column	15	Results	CHARACTERISTIC	TSRCHAR	PARENT_TSN	Number	10,0	Null	For a Characteristic which is a Taxon, the ITIS Taxon Serial Number (TSN) of the Taxon which is its parent in the hierarchy of taxonomy.	
Column	16	Results	CHARACTERISTIC	TSRCHAR	TAXON_SORT_CODE	Varchar2	45	Null	A structured, intelligent key assigned by EPA to each taxon to support taxonomic sorts, and to convey the taxonomic hierarchy of each record.	
Column	17	Results	CHARACTERISTIC	TSRCHAR	AUTHOR_DATE	Varchar2	45	Null	The author name and year of publication of the authority who named this taxon.	
Column	18	Results	CHARACTERISTIC	TSRCHAR	STATUS	Char	3	Null	Indicator flag identifying approved, valid names from synonyms.	A (approved, valid); S (synonym, invalid); <spaces>
Column	19	Results	CHARACTERISTIC	TSRCHAR	TAXON_RANK_NAME	Char	12	Null	The vernacular name by which the rank of the taxon is known. Examples include Phylum, Class, Order, Family, Genus, and Species. There are other examples.	
Column	20	Results	CHARACTERISTIC	TSRCHAR	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	21	Results	CHARACTERISTIC	TSRCHAR	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	TSRCHDEF				Each row in this table is an extension of a row in the characteristic-to-group assignment table, and contains defaults for the row for such items as units, sample fraction, time basis, and others.	
Column	2	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	TSRCHDEF_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	TSRCHDEF_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	ROW_ID	Varchar2	20	Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	
Column	5	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	SMPL_FRAC_TYPE_NM	Varchar2	15	Null	The text name of the portion of the sample associated with results obtained from a physically-partitioned sample. Examples: dissolved; - suspended; - total; The permitted values for this field must exactly match those in the RESULT entity for the field of the same name.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRCHDEF, and FIELD_NAME=SMPL_FRAC_TYPE_NM.
Column	6	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	UOM_NAME	Char	10	Null	The abbreviation for the name of the unit of measure. The values for this field will be copied from the attribute SHORT_FORM_NAME in the UNIT_OF_MEASURE Entity, based on a cross-match between the UOM_TYPE attribute in CHARACTERISTIC and UNIT_OF_MEASURE.	The domain of permitted values is defined in table TSRUOM, in the field named SHORT_FORM_NAME.
Column	7	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	DUR_BASIS_TYPE_NM	Char	10	Null	The period of time (in days) over which a measurement was made. For example, BOD can be measured as 5 day or 20 day BOD. In some cases, it indicates an analytical procedure which has a prescribed duration, while in other cases (ie BOD) it indicates a period of time within which a certain effect or result might occur. This qualifier may also indicate a period of time over which a cumulative or averaged measurement occurs.	24 Hours; 96 Hours; 1 Day; 2 Day; 3 Day; 4 Day; 5 Day; 6 Day; 7 Day; 8 Day; 9 Day; 10 Day; 11 Day; 12 Day; 13 Day; 14 Day; 15 Day; 16 Day; 17 Day; 18 Day; 19 Day; 20 Day; 21 Day; 22 Day; 23 Day; 24 Day; 25 Day; 26 Day; 27 Day; 28 Day; 29 Day; 30 Day; 60 Day; 90 Day; 120 Day; 6 Month; 1 Year; <Spaces>

Column	8	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	STATISTIC_TYPE_NM	Char	18	Null	A statistic or calculation type which describes the reported result (e.g., average, mode, median, MPN (Most Probable Number)).	Mean (The arithmetic average of a set of numbers or measurements); Maximum (Denotes the numerical result of largest value); Median (In an ordered set of numbers, the most central value or the middle value); Mode (In a set of results or measurements, that value which occurs most frequently); Minimum (Denotes the numerical result with the smallest value); Standard Deviation (A measure of the dispersion of a set of results or measurements. Mathematically, the square root of the arithmetic average of the squares of the individual deviations from the arithmetic mean, or the square root of the VARIANCE); MPN (Most Probable Number. A result predicted, rather than measured, by the method employed. Usually applied to counts of colony forming units like bacteria or algae); 5 pctl; 10 pctl; 15 pctl; 20 pctl; 25 pctl; 75 pctl; 80 pctl; 85 pctl; 90 pctl; 95 pctl; <Spaces> (Needed to permit clearing field. Also conveys the meaning of "simple result")
Column	9	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	VALUE_TYPE_NAME	Char	10	Null	A name that represents the process which was used in the determination of the result value (e.g., actual, estimated, calculated).	Actual; Estimated; Calculated; <Spaces>;
Column	10	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	WT_BASIS_TYPE_NM	Char	12	Null	The name that represents the form of the sample or portion of the sample which is associated with the result value (e.g., wet weight, dry weight, ash-free dry weight).	Wet (The wet weight of the material); Dry (The material dried in a dry oven); Ash-Free Dry (Applies to samples dried at a high temperature (e.g., in a furnace at 550 C) used in soil sediment and tissue weight determination); <Spaces> (Needed to permit clearing field. Also describes measurements made without regard to a weight basis)
Column	11	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	TEMP_BASIS_LVL_NM	Char	8	Null	The name that represents the controlled temperature at which the sample was maintained during analysis.	05 Deg C; 10 Deg C; 15 Deg C; 20 Deg C; 25 Deg C; <Spaces> (Needed to permit clearing field. Also denotes measurements made without regard to a controlled temperature)
Column	12	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	SPECIES_NUMBER	Char	8	Null	A number assigned as a part of a taxonomic identification. Used with a valid genus (or higher rank) name to indicate a unique species has been observed but not taxonomically identified (e.g., lepomis sp.1).	sp.1; sp.2; sp.3; sp.4; sp.5; sp.6; sp.7; sp.8; sp.9; <Spaces>
Column	13	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	LOWER_RANGE_VALUE	Number	13,5	Null	Represents the lower bound value of the result. Values stored below this limit cause warning messages to appear during data entry.	Decimal number,0-99999999.99999
Column	14	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	UPPER_RANGE_VALUE	Number	13,5	Null	Represents the upper bound value of the result. Values stored above this limit cause warning messages to appear during data entry.	Decimal number,0-99999999.99999
Column	15	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	TAXON_POLLUTION	Char	4	Null	For entries representing taxa, a code representing the ability of the reported taxon to tolerate pollution.	
Column	16	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	FNCTIONAL_FEED_GRP	Char	6	Null	For entries representing taxa, a code representing the functional feeding group with which the reported taxon is typically associated.	
Column	17	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	TROPHIC_LEVEL	Char	4	Null	For entries representing taxa, a code representing the trophic level with which the reported taxon is typically assigned.	

Column	18	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	COMP_IND_CD	Char	1	Not Null	This is used to determine whether or not the row in Characteristic Default entity is complete. A complete row contains the row id, characteristic name, unit of measure, value type and where applicable the analytical procedure. If the analytical procedure is required for that characteristic, then the user must enter an analytical procedure in defaults for the row to be considered complete.	Y (yes, row is complete); N (no, row is not complete);
Column	19	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	PARTICLE_SIZE_BASIS	Varchar2	40	Null	When the characteristic is one of several substrate descriptors, this field defines a user-specified (free text) sediment size class.	
Column	20	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	21	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	22	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	TSRANLPR_IS_NUMBER	Number	12,0	Null	The foreign key to TSRANLPR implements "One Analytical Procedure may be the default for one or more rows in a Characteristic Group."	Key must pre-exist in TSRANLPR, and it must have already been adopted by the organization through an entry in TSROAPA (Organization-Analytical_Procedure Assignment), and associated by the Organization to the characteristic for which it will be the default here, by an entry in TSROAPCA (Organization-Analytical_Procedure-Characteristic Assignment).
FK Column	23	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	TSRANLPR_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRANLPR.	
FK Column	24	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	TSRLSPP_IS_NUMBER	Number	12,0	Null	The foreign key to TSRLSPP implements "One Laboratory Sample Preparation Procedure may be the default for one or more rows in a Characteristic Group."	Key must pre-exist in TSRLSPP.
FK Column	25	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	TSRLSPP_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRLSPP.	
FK Column	26	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	TSRCCGA_IS_NUMBER	Number	12,0	Null	The foreign key to TSRCCGA implements "One Characteristic-to-Characteristic_Group Assignment may be linked to one or more (actually only one) set of Characteristic Defaults."	Key must pre-exist in TSRCCGA.
FK Column	27	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	TSRCCGA_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRCCGA.	
FK Column	28	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	TSMPRMVL_IS_NUMBER	Number	12,0	Null	The foreign key to TSMPRMVL implements "One Permitted Value may be the Default Sample Fraction Type of many Rows in a Characteristic Group."	Key must pre-exist in TSMPRMVL.
FK Column	29	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	TSMPRMVL_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPRMVL.	
FK Column	30	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	TSMPRMVL0IS_NUMBER	Number	12,0	Null	The foreign key to TSMPRMVL implements "One Permitted Value may be the Default Voltinism for a taxon of many Rows in a Characteristic Group."	Key must pre-exist in TSMPRMVL.
FK Column	31	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	TSMPRMVL0ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPRMVL.	
FK Column	32	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	TSMPRMVL1IS_NUMBER	Number	12,0	Null	The foreign key to TSMPRMVL implements "One Permitted Value may be the Default Habit for a taxon of many Rows in a Characteristic Group."	Key must pre-exist in TSMPRMVL.
FK Column	33	Organization - Defaults	CHARACTERISTIC_DEFAULT	TSRCHDEF	TSMPRMVL1ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPRMVL.	



Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Organization - Defaults	CHARACTERISTIC_GROUP	TSRCHGRP	TSRCHGRP				Entity type containing an organization-specific "group" label for a group of characteristics: Note: The relationship between Characteristic Group and Organization enables different Organizations to create different groups with the apparent same names. For example, EPA might want to create a group called "metals" and include lead, cadmium, and mercury in its membership. Another organization (e.g., USGS) might want to create a group called "metals" and include arsenic, iron, and copper in its membership. With such a link between Organization and Characteristic Group, each Organization can create its own group and use it as it wishes. Note: Organizations should be able to copy groups and their memberships from other Organizations. In this way, groups do not have to be re-invented each time someone outside the "owning" Organization wants to use them. It is necessary, however, for each Organization using a group to "own" its own copy of the group because the "owning" Organization has control over changes (especially deletions) that could produce "crea	
Column	2	Organization - Defaults	CHARACTERISTIC_GROUP	TSRCHGRP	TSRCHGRP_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Organization - Defaults	CHARACTERISTIC_GROUP	TSRCHGRP	TSRCHGRP_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Organization - Defaults	CHARACTERISTIC_GROUP	TSRCHGRP	ID_CODE	Char	8	Not Null	The Organization-assigned alphanumeric code that identifies a Characteristic Group for reference during batch data entry.	
Column	5	Organization - Defaults	CHARACTERISTIC_GROUP	TSRCHGRP	NAME	Varchar2	30	Not Null	The Organization-defined label for the aggregation of characteristics. Examples: Organics, Inorganics, Heavy metals, Trace metals, EPA priority pollutant, Pesticides, Nutrients, Bob's Group	
Column	6	Organization - Defaults	CHARACTERISTIC_GROUP	TSRCHGRP	FLD_ACT_TYPE_NM	Char	13	Not Null	The type of the Field Activity being performed, used to distinguish between field samples and field measurements and observations.	Sample; Field Msr/Obs (Field Measurements and Observations); Data Logger;
Column	7	Organization - Defaults	CHARACTERISTIC_GROUP	TSRCHGRP	MEDIUM_TYPE_NAME	Varchar2	20	Null	The name of the medium or matrix represented by the Field Activity.	Air (Activity represents air); Sediment (Activity represents physical or chemical characteristics of sediment at the bottom of a water body); Water (Activity represents the physical or chemical composition of the water at the monitoring site); Biological (Activity represents the biota(individual or community) at the monitoring site); Soil (Activity represents soil at the monitoring site); Other (Specify Sample Matrix); <Spaces>

Column	8	Organization - Defaults	CHARACTERISTIC_GROUP	TSRCHGRP	INTENT_TYPE_NAME	Varchar2	20	Null	The goal or purpose of a field activity whose medium type is BIOLOGICAL. It is mandatory when MEDIUM_TYPE_NAME is BIOLOGICAL and not permitted elsewhere.	<Spaces> --Indicates no report of intent; Tissue --A sample made up of tissue derived from an organism or individual, or from a specific part of such an organism or individual; Taxon Abundance --For a biological sample, indicates that multiple organisms or individuals are present, and that information concerning their population abundance will be reported; Individual -- For a biological sample, indicates the whole sample is comprised of a single organism or individual.
Column	9	Organization - Defaults	CHARACTERISTIC_GROUP	TSRCHGRP	COMMUNITY_NAME	Varchar2	30	Null	The name of the Biological Community from which the Sample was taken. Note: This is only valid when MEDIUM_TYPE_NAME is BIOLOGICAL and INTENT_TYPE_NAME is TAXON ABUNDANCE.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRCHGRP, and FIELD_NAME=COMMUNITY_NAME.
Column	10	Organization - Defaults	CHARACTERISTIC_GROUP	TSRCHGRP	RES_GRP_TYPE_NM	Varchar2	32	Null	For a Biological Result Group, the name of the kind of group. Examples include: 1. population census by taxon (non- duplicative species count); 2. Coliform bacteria census by taxon; 3. Single taxon frequency class; 4. Single taxon group summary; 5. Single taxon individual	Single Taxon Group Summary; Single Taxon Individuals; Single Taxon Frequency Classes; Multi-Taxon Population Census;
Column	11	Organization - Defaults	CHARACTERISTIC_GROUP	TSRCHGRP	DESCRIPTION_TEXT	Varchar2	254	Null	The additional text which further describes the aggregation of characteristics.	
Column	12	Organization - Defaults	CHARACTERISTIC_GROUP	TSRCHGRP	HABITAT_ASSESS_IND	Char	1	Not Null	A Y/N flag which indicates whether or not this Characteristic Group represents a Habitat Assessment Scheme.	Y (yes, it is a habitat assessment scheme); N (no, it is not such a scheme)
Column	13	Organization - Defaults	CHARACTERISTIC_GROUP	TSRCHGRP	CHAR_DEFINED_IND	Char	1	Null	A flag indicating, for a Habitat Assessment Group, whether or not the characteristics will be user-defined, or drawn from the system-defined characteristics found in table TSRCHAR.	U (user-defined metrics); S (system-defined metrics found in TSRCHAR); <spaces>
Column	14	Organization - Defaults	CHARACTERISTIC_GROUP	TSRCHGRP	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	15	Organization - Defaults	CHARACTERISTIC_GROUP	TSRCHGRP	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	16	Organization - Defaults	CHARACTERISTIC_GROUP	TSRCHGRP	TSMORGAN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMORGAN implements "One Organization may own many Characteristic Groups.	Key must pre-exist in TSMORGAN.
FK Column	17	Organization - Defaults	CHARACTERISTIC_GROUP	TSRCHGRP	TSRCITN_IS_NUMBER	Number	12,0	Null	The foreign key to TSRCITN implements "One Literature Citation may describe many Characteristic Groups."	Key must pre-exist in TSMORGAN.
FK Column	18	Organization - Defaults	CHARACTERISTIC_GROUP	TSRCHGRP	TSRCITN_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRCITN.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Domain Reference	CHARACTERISTIC_TYPE	TSRCHTYP	TSRCHTYP				Primary categories and sub-categories into which the characteristic list is divided for purposes of reducing user search time. This table defines the domain of valid values for the Categories and Subcategories of Characteristics.	
Column	2	Domain Reference	CHARACTERISTIC_TYPE	TSRCHTYP	TSRCHTYP_CATEGORY	Char	12	Not Null	The name of the high-level categorization of environmental characteristics.	CHEMICAL; BACT./VIRAL; BIOLOGICAL; PHYSICAL; <Spaces>
Column	3	Domain Reference	CHARACTERISTIC_TYPE	TSRCHTYP	TSRCHTYP_SUBCATGRY	Varchar2	30	Not Null	The code that represents the lower level subcategories of environmental characteristics.	
Column	4	Domain Reference	CHARACTERISTIC_TYPE	TSRCHTYP	TSRCHTYP_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	5	Domain Reference	CHARACTERISTIC_TYPE	TSRCHTYP	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	6	Domain Reference	CHARACTERISTIC_TYPE	TSRCHTYP	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Organization - Defaults	CITATION	TSRCITN	TSRCITN				A bibliographic reference cited to provide additional information concerning an Organization's procedures, methods and/or data.	
Column	2	Organization - Defaults	CITATION	TSRCITN	TSRCITN_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Organization - Defaults	CITATION	TSRCITN	TSRCITN_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Organization - Defaults	CITATION	TSRCITN	IDENTIFICATION_CD	Char	12	Null	The code (combination of text or numbers) used by the owning Organization to uniquely identify the Citation.	
Column	5	Organization - Defaults	CITATION	TSRCITN	ORG_TYPE_CODE	Char	3	Not Null	A Code (NAT or ORG) indicating whether this citation record is under the control of EPA STORET administrators (NAT) or a data-owning organization (ORG).	NAT (National. The Citation is owned by STORET Central Staff); ORG (Organization. The Citation is owned by the contributing Organization);
Column	6	Organization - Defaults	CITATION	TSRCITN	ORG_REF_ID_NUM	Varchar2	20	Null	A code or identifier used by the Organization which owns the CITATION to identify it within their organization. Should be unique within the ORG.	
Column	7	Organization - Defaults	CITATION	TSRCITN	AUTHOR_NAME	Varchar2	120	Not Null	The full name(s) of author(s) of the publication being cited.	
Column	8	Organization - Defaults	CITATION	TSRCITN	TITLE_NAME	Varchar2	1999	Not Null	The official name of the publication being cited.	
Column	9	Organization - Defaults	CITATION	TSRCITN	PUBLICATION_YEAR	Char	18	Not Null	The copyright year of the publication being cited.	
Column	10	Organization - Defaults	CITATION	TSRCITN	JRNL_OR_PBLSHR_NM	Varchar2	120	Not Null	The name of the organization which issued the publication being cited.	
Column	11	Organization - Defaults	CITATION	TSRCITN	VOL_AND_PG_NUM	Varchar2	20	Not Null	Specific volume and page numbers within the literature cited which apply to data supported by the CITATION. "ALL" may be entered to indicate a reference to the entire publication.	
Column	12	Organization - Defaults	CITATION	TSRCITN	COMMENT_TEXT	Varchar2	254	Null	User-defined text that provides further information about the Citation.	
Column	13	Organization - Defaults	CITATION	TSRCITN	BLOB_TYPE	Char	3	Null	A literature citation may be stored in STORET as a Binary Large Object, or BLOB. The BLOB may be a document or a graphic object. This field defines the type of BLOB which further defines this station. A foreign key in TSMBLOB identifies the BLOB which is linked to the Station.	JPG; BMP; GIF; TXT; PDF; <Spaces>
Column	14	Organization - Defaults	CITATION	TSRCITN	BLOB_TITLE	Varchar2	60	Null	User-defined Title defining or describing the BLOB Content.	
Column	15	Organization - Defaults	CITATION	TSRCITN	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	16	Organization - Defaults	CITATION	TSRCITN	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	17	Organization - Defaults	CITATION	TSRCITN	TSMORGAN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMORGAN implements "One Organization may describe many Literature Citations."	Key must pre-exist in TSMORGAN.

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Results	CELL_DESCRIPTOR	TSRCLDES	TSRCLDES				For monitoring results which identify micro-biological organisms or individual cells, this table provides further descriptions of the cell form and shape.	
FK Column	2	Results	CELL_DESCRIPTOR	TSRCLDES	TSRRSULT_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRRSULT implements "One Result may be described by one or more (actually only one) Cell Description."	The key must pre-exist in TSRRSULT.
FK Column	3	Results	CELL_DESCRIPTOR	TSRCLDES	TSRRSULT_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRRSULT.	
Column	4	Results	CELL_DESCRIPTOR	TSRCLDES	CELL_TYPE_NM	Varchar2	11	Null	The name of the cell form for phytoplankton organisms expressed as a result. A single phytoplankton species may have a result value for any or all of these cell forms.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRCLDES, and FIELD_NAME=CELL_TYPE_NM
Column	5	Results	CELL_DESCRIPTOR	TSRCLDES	CELL_SHAPE_TYPE_NM	Varchar2	18	Null	The cell shape of the phytoplankton organism. For example, a chrysophyta can have a form and a shape.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRCLDES, and FIELD_NAME=CELL_SHAPE_TYPE_NM
Column	6	Results	CELL_DESCRIPTOR	TSRCLDES	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Results	CELL_DESCRIPTOR	TSRCLDES	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Project	CITATION_PROJECT_ASGNMT	TSRCPA	TSRCPA				Associative entity that resolves many-to-many relationship between project and citation.	
FK Column	2	Project	CITATION_PROJECT_ASGNMT	TSRCPA	TSMPROJ_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMPROJ implements "One Project may be further described by many Literature Citations."	Key must pre-exist in TSMPROJ.
FK Column	3	Project	CITATION_PROJECT_ASGNMT	TSRCPA	TSMPROJ_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMPROJ.	
FK Column	4	Project	CITATION_PROJECT_ASGNMT	TSRCPA	TSRCITN_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRCITN implements "One Literature Citation may describe many Projects."	Key must pre-exist in TSRCITN.
FK Column	5	Project	CITATION_PROJECT_ASGNMT	TSRCPA	TSRCITN_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRCITN.	
Column	6	Project	CITATION_PROJECT_ASGNMT	TSRCPA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Project	CITATION_PROJECT_ASGNMT	TSRCPA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Domain Reference	CHARACTERISTIC_PERMITD_VALUE	TSRCPV	TSRCPV				Reference table containing valid choices for a given Characteristic. For example, if one is documenting biological characteristics of an organism and the characteristic of interest is the Sex of that organism, then the Characteristic Permitted Value is the set of valid sexes for that organism (e.g., male, female, hermaphrodite, androgynous); for the characteristic Life Stage the permitted values would include Larva, Pupa, Juvenile, Adult.	
Column	2	Domain Reference	CHARACTERISTIC_PERMITD_VALUE	TSRCPV	TSRCPV_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Domain Reference	CHARACTERISTIC_PERMITD_VALUE	TSRCPV	TSRCPV_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Domain Reference	CHARACTERISTIC_PERMITD_VALUE	TSRCPV	SHORT_NAME	Char	12	Not Null	The short form of the value to be assigned to the result, and to be displayed as the result on screens and in reports.	
Column	5	Domain Reference	CHARACTERISTIC_PERMITD_VALUE	TSRCPV	DESCRIPTION_TEXT	Varchar2	60	Null	The explanatory description of the meaning of the short name.	
Column	6	Domain Reference	CHARACTERISTIC_PERMITD_VALUE	TSRCPV	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Domain Reference	CHARACTERISTIC_PERMITD_VALUE	TSRCPV	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	8	Domain Reference	CHARACTERISTIC_PERMITD_VALUE	TSRCPV	TSRCHAR_IS_NUMBER	Number	12,0	Null	The foreign key to TSRCHAR implements "One Characteristic may have many permitted values."	Key must pre-exist in TSRCHAR.
FK Column	9	Domain Reference	CHARACTERISTIC_PERMITD_VALUE	TSRCPV	TSRCHAR_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRCHAR.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Domain Reference	CHARACTERISTIC_TYPE_CHAR_ASGMNT	TSRCTCA	TSRCTCA				This table defines the allowed pairings of Characteristic Type and Characteristic.	
FK Column	2	Domain Reference	CHARACTERISTIC_TYPE_CHAR_ASGMNT	TSRCTCA	TSRCHAR_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRCHAR implements "One Characteristic may be associated with many Characteristic Types."	Key must pre-exist in TSRCHAR.
FK Column	3	Domain Reference	CHARACTERISTIC_TYPE_CHAR_ASGMNT	TSRCTCA	TSRCHAR_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRCHAR.	
FK Column	4	Domain Reference	CHARACTERISTIC_TYPE_CHAR_ASGMNT	TSRCTCA	TSRCHTYP_CATEGORY	Char	12	Not Null	The Characteristic Type Category, subcategory, and Org ID constitute the foreign key to TSRCHTYP, which implements "One Characteristic Type may be associated with many characteristics."	Key combination of Category and subcategory must pre-exist in TSRCHTYP.
FK Column	5	Domain Reference	CHARACTERISTIC_TYPE_CHAR_ASGMNT	TSRCTCA	TSRCHTYP_SUBCATGRY	Varchar2	30	Not Null	The Characteristic Type Category, subcategory, and Org ID constitute the foreign key to TSRCHTYP, which implements "One Characteristic Type may be associated with many characteristics."	Key combination of Category and subcategory must pre-exist in TSRCHTYP.
FK Column	6	Domain Reference	CHARACTERISTIC_TYPE_CHAR_ASGMNT	TSRCTCA	TSRCHTYP_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMCHTYP.	
Column	7	Domain Reference	CHARACTERISTIC_TYPE_CHAR_ASGMNT	TSRCTCA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	8	Domain Reference	CHARACTERISTIC_TYPE_CHAR_ASGMNT	TSRCTCA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	



Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Portable Data Logger	DATA_LINE	TSRDLIN	TSRDLIN				For a hand-held Data Logger, a data line entry groups one to several results together representing a single data point or recording event during the deployment of the device.	
Column	2	Portable Data Logger	DATA_LINE	TSRDLIN	TSRDLIN_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Portable Data Logger	DATA_LINE	TSRDLIN	TSRDLIN_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Portable Data Logger	DATA_LINE	TSRDLIN	LINE_NUMBER	Number	8	Not Null	The mandatory, user-assigned number representing a single recording event during the deployment of a hand-held data logger.	
Column	5	Portable Data Logger	DATA_LINE	TSRDLIN	LINE_NAME	Varchar2	25	Null	A user-assigned text identifier further describing the single recording event during deployment of the device.	
Column	6	Portable Data Logger	DATA_LINE	TSRDLIN	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Portable Data Logger	DATA_LINE	TSRDLIN	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	8	Portable Data Logger	DATA_LINE	TSRDLIN	TSRFDACT_IS_NUMBER	Number	12,0	Null	The foreign key to TSRFDACT implements "One Field Activity may consist of many data logger data lines.	Key must pre-exist in TSRFDACT.
FK Column	9	Portable Data Logger	DATA_LINE	TSRDLIN	TSRFDACT_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRFDACT.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Results	DETECTION_QUANTITATION_LIMIT	TSRDQL	TSRDQL				The quantitative numerical limits of the instrument and analytical process conducted to detect and/or quantify the substance associated with a result value, representing both the sensitivity and the linear range of the instrument and process..	
FK Column	2	Results	DETECTION_QUANTITATION_LIMIT	TSRDQL	TSRRSULT_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRRSULT implements "One Result may be qualified by one or more Detection/Quantitation Limit sets."	Key must pre-exist in TSRRSULT.
FK Column	3	Results	DETECTION_QUANTITATION_LIMIT	TSRDQL	TSRRSULT_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRRSULT.	
Column	4	Results	DETECTION_QUANTITATION_LIMIT	TSRDQL	MIN_DETECT_LIMIT	Char	12	Null	Represents the least amount of the target substance which could be detected by the instrument/analytical process employed to determine the result. Above this value the target substance is presumed to be present.	
Column	5	Results	DETECTION_QUANTITATION_LIMIT	TSRDQL	MAX_QUANT_LIMIT	Char	12	Null	Represents the largest amount of the target substance which could be quantified by the instrument/analytical process employed to determine the result. Values above the minimum and below the maximum quantitation limits are reported as valid numeric results.	
Column	6	Results	DETECTION_QUANTITATION_LIMIT	TSRDQL	MIN_QUANT_LIMIT	Char	12	Null	Represents the least amount of the target substance which could be quantified by the instrument/analytical process employed to determine the result. Values above the minimum and below the maximum quantitation limits are reported as valid numeric results.	
Column	7	Results	DETECTION_QUANTITATION_LIMIT	TSRDQL	DESCRIPTION_TEXT	Varchar2	254	Null	Text providing further description and comment on the detection and/or quantitation limits, for example "Instrument Detection Limit".	
Column	8	Results	DETECTION_QUANTITATION_LIMIT	TSRDQL	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	9	Results	DETECTION_QUANTITATION_LIMIT	TSRDQL	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	10	Results	DETECTION_QUANTITATION_LIMIT	TSRDQL	TSRUOM_IS_NUMBER	Number	12,0	Null	The foreign key to TSRUOM implements "One Unit of Measure may qualify one or more detection/quantitation limits."	Key must pre-exist in TSRUOM.
FK Column	11	Results	DETECTION_QUANTITATION_LIMIT	TSRDQL	TSRUOM_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRUOM.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	ELECTROSHOCK_OPERATION_DETAIL	TSREOD	TSREOD				A description of settings and procedures applied to the electroshock equipment at the time the Sample was collected.	
FK Column	2	Field Activity	ELECTROSHOCK_OPERATION_DETAIL	TSREOD	TSRFDACT_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRFDACT implements "One Field Activity may be qualified by one or more (actually only one) Electroshock Operating Details."	Key must pre-exist in TSRFDACT.
FK Column	3	Field Activity	ELECTROSHOCK_OPERATION_DETAIL	TSREOD	TSRFDACT_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRFDACT.	
Column	4	Field Activity	ELECTROSHOCK_OPERATION_DETAIL	TSREOD	VOLTAGE_MEASURE	Number	6,3	Not Null	The magnitude of the electro-motive force (volts) applied to the electroshock equipment used to collect the Sample.	
Column	5	Field Activity	ELECTROSHOCK_OPERATION_DETAIL	TSREOD	CURRENT_TYPE_CODE	Char	2	Not Null	The code that represents the type of current produced by the electroshock equipment.	AC; DC;
Column	6	Field Activity	ELECTROSHOCK_OPERATION_DETAIL	TSREOD	AMPERAGE_MEASURE	Number	6,3	Null	The magnitude of the current (amperes) produced by the electroshock equipment used to collect the Sample.	
Column	7	Field Activity	ELECTROSHOCK_OPERATION_DETAIL	TSREOD	PASS_COUNT	Number	2	Null	The number of times the electroshock gear was swept through the water from which the Sample was collected.	Integer 1-99
Column	8	Field Activity	ELECTROSHOCK_OPERATION_DETAIL	TSREOD	PASS_LENGTH_MSR	Number	5	Null	The distance through which the electroshock was swept on each pass (assuming passes of equal length) through the water from which the Sample was collected.	Integer 1-99999
Column	9	Field Activity	ELECTROSHOCK_OPERATION_DETAIL	TSREOD	PASS_LENGTH_UN_CD	Char	3	Null	The code that represents the units in which the pass length is expressed.	ft (Feet); m (Meters); <Spaces>
Column	10	Field Activity	ELECTROSHOCK_OPERATION_DETAIL	TSREOD	PULSE_RATE_MSR	Number	3	Null	The number of times the electric current is interrupted in one second during use of the gear. Units are pulse/second.	
Column	11	Field Activity	ELECTROSHOCK_OPERATION_DETAIL	TSREOD	COMMENT_TEXT	Varchar2	254	Null	User-defined text that provides further information about the Electroshock Operation.	
Column	12	Field Activity	ELECTROSHOCK_OPERATION_DETAIL	TSREOD	TOTAL_ENERGZD_TIME	Number	3	Null	Total time during the sample collection event that the electrodes were in the water and effective voltage was applied. For pulsed or intermittent electroshock procedures, this is not the same as elapsed time.	
Column	13	Field Activity	ELECTROSHOCK_OPERATION_DETAIL	TSREOD	ENERGZD_TIME_UNITS	Char	10	Null	The code that represents the units in which the sampling duration is expressed.	seconds; minutes; hours; <Spaces>
Column	14	Field Activity	ELECTROSHOCK_OPERATION_DETAIL	TSREOD	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	15	Field Activity	ELECTROSHOCK_OPERATION_DETAIL	TSREOD	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	FIELD_ACTIVITY_COOP_ORG_ASGNMT	TSRFACOA	TSRFACOA				Defines the association between Field Activities and any Organization(s) which cooperated in their performance.	
FK Column	2	Field Activity	FIELD_ACTIVITY_COOP_ORG_ASGNMT	TSRFACOA	TSMCPORG_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMCPORG implements "One Cooperating Organization may participate in Many Field Activities"	Key must pre-exist in TSMCPORG.
FK Column	3	Field Activity	FIELD_ACTIVITY_COOP_ORG_ASGNMT	TSRFACOA	TSMCPORG_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMCPORG.	
FK Column	4	Field Activity	FIELD_ACTIVITY_COOP_ORG_ASGNMT	TSRFACOA	TSRFDCT_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMFDCT implements "One Field Activity may be performed with the assistance of many Cooperating Organizations."	Key must pre-exist in TSRFDCT.
FK Column	5	Field Activity	FIELD_ACTIVITY_COOP_ORG_ASGNMT	TSRFACOA	TSRFDCT_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRFDCT.	
Column	6	Field Activity	FIELD_ACTIVITY_COOP_ORG_ASGNMT	TSRFACOA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Field Activity	FIELD_ACTIVITY_COOP_ORG_ASGNMT	TSRFACOA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	FIELD_ACTIVITY_FIELD_SET_ASGNMT	TSRFAFSA	TSRFAFSA				Defines the association between Field Activity and Field Set.	
FK Column	2	Field Activity	FIELD_ACTIVITY_FIELD_SET_ASGNMT	TSRFAFSA	TSRFDCT_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRFDCT implements "One Field Activity may be linked to Many Field Sets."	Key must pre-exist in TSRFDCT.
FK Column	3	Field Activity	FIELD_ACTIVITY_FIELD_SET_ASGNMT	TSRFAFSA	TSRFDCT_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRFDCT.	
FK Column	4	Field Activity	FIELD_ACTIVITY_FIELD_SET_ASGNMT	TSRFAFSA	TSRFDSET_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRFDSET implements "One Field Set may be linked to many Field Activities."	Key must pre-exist in TSRFDSET.
FK Column	5	Field Activity	FIELD_ACTIVITY_FIELD_SET_ASGNMT	TSRFAFSA	TSRFDSET_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRFDSET.	
Column	6	Field Activity	FIELD_ACTIVITY_FIELD_SET_ASGNMT	TSRFAFSA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Field Activity	FIELD_ACTIVITY_FIELD_SET_ASGNMT	TSRFAFSA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	FIELD_ACTIVITY_PERSON_ASSIGNMENT	TSRFAPEA	TSRFAPEA				Defines the association between Field Activity and the Person(s) who performed it.	
FK Column	2	Field Activity	FIELD_ACTIVITY_PERSON_ASSIGNMENT	TSRFAPEA	TSRFDACT_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRFDACT implements "One Field Activity may be performed by one or more Persons."	Key must pre-exist in TSRFDACT.
FK Column	3	Field Activity	FIELD_ACTIVITY_PERSON_ASSIGNMENT	TSRFAPEA	TSRFDACT_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRFDACT.	
FK Column	4	Field Activity	FIELD_ACTIVITY_PERSON_ASSIGNMENT	TSRFAPEA	TSMPEASN_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMPEASN implements "One Person may perform many Field Activities."	Key must pre-exist in TSMPEASN.
FK Column	5	Field Activity	FIELD_ACTIVITY_PERSON_ASSIGNMENT	TSRFAPEA	TSMPEASN_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMPEASN.	
Column	6	Field Activity	FIELD_ACTIVITY_PERSON_ASSIGNMENT	TSRFAPEA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Field Activity	FIELD_ACTIVITY_PERSON_ASSIGNMENT	TSRFAPEA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Table	1	Field Activity	FIELD_ACTIVITY_PROJECT_ASSGNMT	TSRFAPRA	TSRFAPRA				Defines the association between Field Activity and the Project for which it was conducted.	
FK Column	2	Field Activity	FIELD_ACTIVITY_PROJECT_ASSGNMT	TSRFAPRA	TSRFDCT_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRFDCT implements "One Field Activity may be conducted to support many Projects."	Key must pre-exist in TSRFDCT.
FK Column	3	Field Activity	FIELD_ACTIVITY_PROJECT_ASSGNMT	TSRFAPRA	TSRFDCT_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRFDCT.	
FK Column	4	Field Activity	FIELD_ACTIVITY_PROJECT_ASSGNMT	TSRFAPRA	TSMPROJ_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMPROJ implements "One Project may be supported by many Field Activities."	Key must pre-exist in TSMPROJ.
FK Column	5	Field Activity	FIELD_ACTIVITY_PROJECT_ASSGNMT	TSRFAPRA	TSMPROJ_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMPROJ.	
Column	6	Field Activity	FIELD_ACTIVITY_PROJECT_ASSGNMT	TSRFAPRA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Field Activity	FIELD_ACTIVITY_PROJECT_ASSGNMT	TSRFAPRA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	FIELD_ACTIVITY_QC_SAMPLE_ASGN	TSRFAQSA	TSRFAQSA				Defines the association between Field Activities and the QC Samples which support it.	
FK Column	2	Field Activity	FIELD_ACTIVITY_QC_SAMPLE_ASGN	TSRFAQSA	TSRFDCT_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRFDCT implements "One Field Activity may be supported by many QC Samples."	Key must pre-exist in TSRFDCT.
FK Column	3	Field Activity	FIELD_ACTIVITY_QC_SAMPLE_ASGN	TSRFAQSA	TSRFDCT_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRFDCT.	
FK Column	4	Field Activity	FIELD_ACTIVITY_QC_SAMPLE_ASGN	TSRFAQSA	TSRFQS_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRFQS implements "One Quality Control Sample may support many Field Activities."	Key must pre-exist in TSRFQS.
FK Column	5	Field Activity	FIELD_ACTIVITY_QC_SAMPLE_ASGN	TSRFAQSA	TSRFQS_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRFQS.	
Column	6	Field Activity	FIELD_ACTIVITY_QC_SAMPLE_ASGN	TSRFAQSA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Field Activity	FIELD_ACTIVITY_QC_SAMPLE_ASGN	TSRFAQSA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	



Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	FIELD_ACTIVITY	TSRFDCT	TSRFDCT				Field activities are performed during a Station Visit to evaluate conditions in the environment. Field Activities consist of Sample collection, Measurements and Observations made on-site. SAMPLE COLLECTION involves something extracted from its environmental setting using some type of equipment. MEASUREMENTS involve something measured in its environmental setting usually using some type of equipment. OBSERVATIONS involve something observed in its environmental setting usually without using some type of equipment. Note: 'Parent' Field Activities cannot be deleted if it has 'Children' Field Activities. For Composites - the Field Activities being 'composited' cannot be deleted if it was used to create a 'Composite' sample. For Split/Subsample/Created - the Field Activity that was 'split/subsampled/created' cannot be deleted if it was used to create a 'Created' sample.	
Column	2	Field Activity	FIELD_ACTIVITY	TSRFDCT	TSRFDCT_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Field Activity	FIELD_ACTIVITY	TSRFDCT	TSRFDCT_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Field Activity	FIELD_ACTIVITY	TSRFDCT	TYPE_NAME	Char	13	Not Null	The type of the Field Activity being performed, used to distinguish between field samples and field measurements and observations.	Sample; Field Msr/Obs (Field Measurements and Observations); Data Logger;
Column	5	Field Activity	FIELD_ACTIVITY	TSRFDCT	CATEGORY_TYPE_NAME	Varchar2	30	Not Null	A descriptor used to distinguish different kinds of samples and different kinds of Measurements & Observations. The permitted value list is controlled by the choice of TYPE_NAME (above), with the entries in TSMFPMVL for CATEGORY_TYPE_NAME_M used for activities of type Msr/Obs, while CATEGORY_TYPE_NAME_S is used for activities of type Sample.	The domain of permitted values is defined in table TSMFPMVL, where TABLE_NAME=TSRFDCT, and FIELD_NAME is one of CATEGORY_TYPE_NAME, CATEGORY_TYPE_NAME_M, or CATEGORY_TYPE_NAME_S.
Column	6	Field Activity	FIELD_ACTIVITY	TSRFDCT	ID_CODE	Char	12	Not Null	The Organization-assigned alphanumeric code that identifies a Field Activity, sometimes called Sample ID. The combination of Activity/Sample ID and Replicate Number must be unique among all samples collected during all station visits conducted during any one Trip.	
Column	7	Field Activity	FIELD_ACTIVITY	TSRFDCT	REPLICATE_NUMBER	Number	3	Null	User-assigned number applied to samples of the same type, medium, etc. to differentiate between them (e.g., Water Replicate 1 and Water Replicate 2, etc.) Note: This applies only to certain Activity Categories for Samples (replicate, field replicate, depletion replicate, sample created from sample) and Measurements (measurement replicate)- not Observations.	

Column	8	Field Activity	FIELD_ACTIVITY	TSRFDACT	MEDIUM_TYPE_NAME	Varchar2	20	Null	The name of the medium or matrix where the Field Activity occurred.	Air (Activity represents air); Sediment (Activity represents physical or chemical characteristics of sediment at the bottom of a water body); Water (Activity represents the physical or chemical composition of the water at the monitoring site); Biological (Activity represents the biota (individual or community) at the monitoring site); Soil (Activity represents soil at the monitoring site); Other (Sample Matrix); <Spaces>
Column	9	Field Activity	FIELD_ACTIVITY	TSRFDACT	INTENT_TYPE_NAME	Varchar2	20	Null	The primary reason the Field Activity occurred. Note: This is mandatory for Biological Medium, and not available for other media..	Individual (For a biological sample, indicates the whole sample is comprised of a single organism or individual); Taxon Abundance (For a biological sample, indicates that multiple organisms or individuals are present, and that information concerning their population abundance will be reported); Tissue (A sample made up of tissue derived from an organism or individual, or from a specific part of such an organism or individual); <Spaces> (Indicates no report of intent)
Column	10	Field Activity	FIELD_ACTIVITY	TSRFDACT	COMMUNITY_NAME	Varchar2	30	Null	The name of the Biological Community from which the Sample was taken. Note: This is only valid when MEDIUM TYPE NAME is BIOLOGICAL and INTENT TYPE NAME is TAXON ABUNDANCE. It is mandatory for that combination of descriptors.	The domain of permitted values is defined in table TSMRML, where TABLE_NAME=TSRFDACT, and FIELD_NAME is COMMUNITY_NAME.
Column	11	Field Activity	FIELD_ACTIVITY	TSRFDACT	START_DATE	Date	8	Not Null	For Samples Collected or for Measurements/Observations made - the date that the Field Activity began. For Samples Created from other samples - the date on which a sample is created by compositing, splitting, or subsampling from a parent sample.	
Column	12	Field Activity	FIELD_ACTIVITY	TSRFDACT	START_TIME	Date	6	Null	For Samples Collected or for Measurements/Observations made - the time that the Field Activity began. For Samples Created from other samples - the time at which a sample is created by compositing, splitting, or subsampling from a parent sample.	
Column	13	Field Activity	FIELD_ACTIVITY	TSRFDACT	START_TIME_ZONE	Char	3	Null	Any of the longitudinal divisions of the earth's surface in which a standard time is kept. Each zone observes a clock time one hour earlier than the zone immediately to the east.	EST (Eastern Standard Time); CST (Central Standard Time); MST (Mountain Standard Time); PST (Pacific Standard Time); EDT (Eastern Daylight Savings Time); CDT (Central Daylight Savings Time); MDT (Mountain Daylight Savings Time); PDT (Pacific Daylight Savings Time); AST (Atlantic Standard Time); ADT (Atlantic Daylight Savings Time); GMT (Greenwich Mean Time); HI (Hawaii standard time); AK (Alaskan standard time); GU (Guam standard time); <Spaces>
Column	14	Field Activity	FIELD_ACTIVITY	TSRFDACT	STOP_DATE	Date	8	Null	Date that the Field Activity ended.	
Column	15	Field Activity	FIELD_ACTIVITY	TSRFDACT	STOP_TIME	Date	6	Null	Time that the Field Activity ended.	
Column	16	Field Activity	FIELD_ACTIVITY	TSRFDACT	STOP_TIME_ZONE	Char	3	Null	Any of the longitudinal divisions of the earth's surface in which a standard time is kept. Each zone observes a clock time one hour earlier than the zone immediately to the east.	EST (Eastern Standard Time); CST (Central Standard Time); MST (Mountain Standard Time); PST (Pacific Standard Time); EDT (Eastern Daylight Savings Time); CDT (Central Daylight Savings Time); MDT (Mountain Daylight Savings Time); PDT (Pacific Daylight Savings Time); AST (Atlantic Standard Time); ADT (Atlantic Daylight Savings Time); GMT (Greenwich Mean Time); HI (Hawaii standard time); AK (Alaskan standard time); GU (Guam standard time); <Spaces>

Column	17	Field Activity	FIELD_ACTIVITY	TSRFDCT	COMMENT_TEXT	Varchar2	254	Null	Free text comments usually originating from members of the field crew regarding the Field Activity.	
Column	18	Field Activity	FIELD_ACTIVITY	TSRFDCT	ZONE_TYPE_NAME	Char	15	Null	The name of the zone within which the activity occurs.	Epilimnion (Zone of water above some discontinuity barrier (e.g., thermocline, chemocline, halocline, pycnocline), sometimes referred to as hyperlimnion. This zone is sometimes referred to as the mixing zone); Mesolimnion (Zone of water within some discontinuity barrier (e.g., thermocline, chemocline, halocline, pycnocline). This zone is sometimes referred to as the metalimnion); Hypolimnion (Zone of water below some discontinuity barrier (e.g., thermocline, chemocline, halocline, pycnocline). This zone is sometimes referred to as the non-mixing zone); Epibenthic (The uppermost zone of the benthic regime, just above the bottom); Mesobenthic (The zone in the middle of the benthic regime. Sometimes referred to as the metabenthic); Hypobenthic (The lowermost zone of the benthic regime); <Spaces> (Indicates no report)
Column	19	Field Activity	FIELD_ACTIVITY	TSRFDCT	RELTV_DEPTH_NAME	Char	15	Null	The name that indicates the approximate location within the water column at which the activity occurred.	Bottom (Indicates field activity occurred at the bottom of a water body); Midwater (Indicates the activity took place between the surface and bottom, but not at either extreme); Surface (Indicates the activity took place on or at the surface of the water); Subbottom (Indicates the activity took place within the bottom sediment); Near Bottom; <Spaces> (Indicates no report)
Column	20	Field Activity	FIELD_ACTIVITY	TSRFDCT	DEPTH_REF_POINT	Varchar2	30	Null	The text that describes the reference point from which the depth is measured, typically "Surface".	
Column	21	Field Activity	FIELD_ACTIVITY	TSRFDCT	DEPTH_TO_ACTIVITY	Char	8	Null	Distance from the surface to the point in the water column at which the activity is conducted.	
Column	22	Field Activity	FIELD_ACTIVITY	TSRFDCT	DEPTH_TO_ACT_UN_CD	Char	3	Null	The code that represents the units in which the depth to activity is expressed.	ft (Feet); m (Meters); <Spaces>
Column	23	Field Activity	FIELD_ACTIVITY	TSRFDCT	UPPER_DEPTH_TO_ACT	Char	8	Null	This measure is associated with an activity that is normally conducted over or within a vertical depth range within the water column. This attribute is a measure of the distance from the surface to the upper boundary of the zone within which the activity is conducted or over which the activity is integrated.	
Column	24	Field Activity	FIELD_ACTIVITY	TSRFDCT	DEPTH_MSR_UNT_CD	Char	3	Null	The code that represents the units in which the upper and lower depth to activity is expressed.	ft (Feet); m (Meters); <Spaces>
Column	25	Field Activity	FIELD_ACTIVITY	TSRFDCT	LOWER_DEPTH_TO_ACT	Char	8	Null	This measure is associated with an activity that is normally conducted over or within a vertical depth range within the water column. This attribute is a measure of the distance from the surface to the lower boundary of the zone within which the activity is conducted or over which the activity is integrated.	
Column	26	Field Activity	FIELD_ACTIVITY	TSRFDCT	THERMOCLINE_LOC_CD	Char	1	Null	A code indicating that a particular field activity was conducted A(above), B(below), or I(in) the layer identified as the thermocline. The thermocline is a zone in which a discontinuity in the temperature gradient occurs.	A (ABOVE - the activity took place above the layer identified as the thermocline); B (BELOW - the activity took place below the layer identified as the thermocline); I (IN - the activity took place within the layer identified as the thermocline)

Column	27	Field Activity	FIELD_ACTIVITY	TSRFDACT	PYCNOCLINE_LOC_CD	Char	1	Null	A code indicating that a particular field activity was conducted A(above), B(below), or I(in) the layer identified as the pycnocline. The pycnocline is a zone in which a discontinuity in the density gradient occurs.	A (ABOVE - the activity took place above the layer identified as the pycnocline); B (BELOW - the activity took place below the layer identified as the pycnocline); I (IN - the activity took place within the layer identified as the pycnocline)
Column	28	Field Activity	FIELD_ACTIVITY	TSRFDACT	HALOCLINE_LOC_CD	Char	1	Null	A code indicating that a particular field activity was conducted A(above), B(below), or I(in) the layer identified as the halocline. The halocline is a zone in which a discontinuity in the salinity gradient occurs.	A (ABOVE - the activity took place above the layer identified as the halocline); B (BELOW - the activity took place below the layer identified as the halocline); I (IN - the activity took place within the layer identified as the halocline)
Column	29	Field Activity	FIELD_ACTIVITY	TSRFDACT	SPECIES_NUMBER	Char	8	Null	For a sample which has a subject Taxon (Tissue or Individual Intent), a number assigned as a part of the taxonomic identification. Used with a valid genus or higher rank name to indicate a unique species has been observed but not taxonomically identified (e.g., leptomis sp.1).	sp.1; sp.2; sp.3; sp.4; sp.5; sp.6; sp.7; sp.8; sp.9; <Spaces>
Column	30	Field Activity	FIELD_ACTIVITY	TSRFDACT	QC_INDICATOR	Char	1	Not Null	A flag which indicates whether or not this activity is a QC Sample.	Y (yes); N (no);
Column	31	Field Activity	FIELD_ACTIVITY	TSRFDACT	CHAIN_OF_CUSTODY_ID	Varchar2	30	Null	An optional user-specified ID Code which may be used to identify a record kept elsewhere describing the chain of custody for a sample and its associated results.	
Column	32	Field Activity	FIELD_ACTIVITY	TSRFDACT	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	33	Field Activity	FIELD_ACTIVITY	TSRFDACT	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	34	Field Activity	FIELD_ACTIVITY	TSRFDACT	TSROPFRD_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSROPFRD.	
FK Column	35	Field Activity	FIELD_ACTIVITY	TSRFDACT	TSROPFRD_IS_NUMBER	Number	12,0	Null	The foreign key to TSROPFRD implements "One Automated Data Logger Operating Period consists of many Field Activities.	Key must pre-exist in TSROPFRD.
FK Column	36	Field Activity	FIELD_ACTIVITY	TSRFDACT	TSRFDACT0IS_NUMBER	Number	12,0	Null	The foreign key to TSRFDACT implements "One Field Activity may be the child of many Field Activities/Samples which were composited to form it.."	Key must pre-exist in TSRFDACT.
FK Column	37	Field Activity	FIELD_ACTIVITY	TSRFDACT	TSRFDACT0ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRFDACT.	
FK Column	38	Field Activity	FIELD_ACTIVITY	TSRFDACT	TSRFDACT1IS_NUMBER	Number	12,0	Null	The foreign key to TSRFDACT implements "One Field Activity may be the parent of many Field Activities/Samples which were extracted from it.."	Key must pre-exist in TSRFDACT.
FK Column	39	Field Activity	FIELD_ACTIVITY	TSRFDACT	TSRFDACT1ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRFDACT.	
FK Column	40	Field Activity	FIELD_ACTIVITY	TSRFDACT	TSRSTVST_IS_NUMBER	Number	12,0	Null	The foreign key to TSRSTVST implements "One Station Visit may include many Field Activities."	Key must pre-exist in TSRSTVST.
FK Column	41	Field Activity	FIELD_ACTIVITY	TSRFDACT	TSRSTVST_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRSTVST.	
FK Column	42	Field Activity	FIELD_ACTIVITY	TSRFDACT	TSRBIOPT_IS_NUMBER	Number	12,0	Null	The foreign key to TSRBIOPT implements "One Biopart (tissue, organ) may be the subject tissue for many Field Activities/Samples whose medium is biological and whose intent is Tissue.	Key must pre-exist in TSRBIOPT.
FK Column	43	Field Activity	FIELD_ACTIVITY	TSRFDACT	TSRBIOPT_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRBIOPT.	
FK Column	44	Field Activity	FIELD_ACTIVITY	TSRFDACT	TSRCHAR_IS_NUMBER	Number	12,0	Null	The foreign key to TSRCHAR implements "One Taxon Characteristic may be the Subject Taxon for many Field Activities whose medium is biological and whose intent is Individual or Tissue.	Key must pre-exist in TSRCHAR.
FK Column	45	Field Activity	FIELD_ACTIVITY	TSRFDACT	TSRCHAR_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRCHAR.	
FK Column	46	Field Activity	FIELD_ACTIVITY	TSRFDACT	TSRFLDPR_IS_NUMBER	Number	12,0	Null	The foreign key to TSRFLDPR implements "One Field Sample Collection/Creation Procedure may be the method by which many Field Activities/Samples are created."	Key must pre-exist in TSRFLDPR.

FK Column	47	Field Activity	FIELD_ACTIVITY	TSRFDCT	TSRFLDPR_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRFLDPR.	
FK Column	48	Field Activity	FIELD_ACTIVITY	TSRFDCT	TSRFLDGR_IS_NUMBER	Number	12,0	Null	The foreign key to TSRFLDGR implements "One Item of Sample Creation/Collection Gear may be the tool used in the creation of many Field Activities/Samples. When the Sample Creation Procedure used is defined with an association to Equipment Type, this field is mandatory in the description of the Field Activity."	Key must pre-exist in TSRFLDGR.
FK Column	49	Field Activity	FIELD_ACTIVITY	TSRFDCT	TSRFLDGR_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRFLDGR.	
FK Column	50	Field Activity	FIELD_ACTIVITY	TSRFDCT	TSRGRCFG_IS_NUMBER	Number	12,0	Null	The foreign key to TSRGRCFG implements "One Field Gear Configuration may describe the specific Field Gear used to create many Samples."	Key must pre-exist in TSRGRCFG.
FK Column	51	Field Activity	FIELD_ACTIVITY	TSRFDCT	TSRGRCFG_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRGRCFG.	
FK Column	52	Field Activity	FIELD_ACTIVITY	TSRFDCT	TSRMATRX_IS_NUMBER	Number	12,0	Null	The foreign key to TSRMATRX implements "One Matrix may be the target of many Field Activities/Samples."	Key must pre-exist in TSRMATRX.
FK Column	53	Field Activity	FIELD_ACTIVITY	TSRFDCT	TSRMATRX_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRMATRX.	
FK Column	54	Field Activity	FIELD_ACTIVITY	TSRFDCT	BLOB_TYPE	Char	3	Null	File types permitted for BLOB content.	
FK Column	55	Field Activity	FIELD_ACTIVITY	TSRFDCT	BLOB_TITLE	Varchar2	60	Null	User-defined Title of the BLOB Content.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	FIELD_SET	TSRFDSET	TSRFDSET				An optional user-specified grouping of Field Activities (i.e., measurements, observations, and/or samples). Note: Each Field Set may be associated with one or more Field Activities. Each Field Activity may be associated with one or more Field Sets.	
Column	2	Field Activity	FIELD_SET	TSRFDSET	TSRFDSET_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Field Activity	FIELD_SET	TSRFDSET	TSRFDSET_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Field Activity	FIELD_SET	TSRFDSET	ID_CODE	Char	10	Not Null	The Organization-assigned alphanumeric that identifies a Field Set. Must be unique within the Station Visit. Used as a shorthand or abbreviation to represent the Field Set in batch data update runs.	
Column	5	Field Activity	FIELD_SET	TSRFDSET	NAME	Varchar2	30	Not Null	The long name assigned by the Organization to the Field Set.	
Column	6	Field Activity	FIELD_SET	TSRFDSET	DESCRIPTION_TEXT	Varchar2	254	Null	User-defined text that provides further information about the Field Set.	
Column	7	Field Activity	FIELD_SET	TSRFDSET	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	8	Field Activity	FIELD_SET	TSRFDSET	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	9	Field Activity	FIELD_SET	TSRFDSET	TSRSTVST_IS_NUMBER	Number	12,0	Null	The foreign key to TSRSTVST implements "One Station Visit may include many Field Sets."	Key must pre-exist in TSRSTVST.
FK Column	10	Field Activity	FIELD_SET	TSRFDSET	TSRSTVST_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRSTVST.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	FIELD_GEAR	TSRFLDGR	TSRFLDGR				Equipment used to extract a sample from its environmental setting. Note: Measurements use analytical equipment not field sampling gear. Observations use neither.	
Column	2	Field Activity	FIELD_GEAR	TSRFLDGR	TSRFLDGR_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Field Activity	FIELD_GEAR	TSRFLDGR	TSRFLDGR_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Field Activity	FIELD_GEAR	TSRFLDGR	ID_CODE	Char	10	Not Null	An Organization-assigned cryptic ID Code that identifies a specific instance of Field Gear. Note: One Field Gear may have many Gear Configurations. Used as a shorthand or abbreviation to represent the Field Gear in batch data update runs.	
Column	5	Field Activity	FIELD_GEAR	TSRFLDGR	TYPE_NAME	Varchar2	25	Not Null	The name of the type or category of Field Sampling Gear.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRFLDGR, and FIELD_NAME is TYPE_NAME.
Column	6	Field Activity	FIELD_GEAR	TSRFLDGR	NAME	Varchar2	60	Not Null	The name of the Field Sampling Gear used to collect Samples.	
Column	7	Field Activity	FIELD_GEAR	TSRFLDGR	DESCRIPTION_TEXT	Varchar2	1999	Null	User-defined text that provides further information about the Field Sampling Gear.	
Column	8	Field Activity	FIELD_GEAR	TSRFLDGR	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	9	Field Activity	FIELD_GEAR	TSRFLDGR	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	FIELD_PROCEDURE	TSRFLDPR	TSRFLDPR				Organization-defined procedures used in the field to generate Samples, Measurements, and/or Observations. Note: A Field Sampling Procedure cannot be deleted if there is a Sample that is associated with it.	
Column	2	Field Activity	FIELD_PROCEDURE	TSRFLDPR	TSRFLDPR_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Field Activity	FIELD_PROCEDURE	TSRFLDPR	TSRFLDPR_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Field Activity	FIELD_PROCEDURE	TSRFLDPR	ID_CODE	Char	10	Not Null	The short name (i.e., abbreviation or acronym) for procedure listed in guidance document. Used as a shorthand or abbreviation to represent the Field Procedure in batch data update runs.	
Column	5	Field Activity	FIELD_PROCEDURE	TSRFLDPR	NAME	Varchar2	60	Not Null	The name of the sampling procedure, as listed in the reference document.	
Column	6	Field Activity	FIELD_PROCEDURE	TSRFLDPR	FLD_GEAR_TYPE_NAME	Varchar2	25	Not Null	The name of the type or category of Field Sampling Gear. Exactly matches TYPE NAME found in the FIELD GEAR table.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRFLDPR, and FIELD_NAME is FLD_GEAR_TYPE_NAME.
Column	7	Field Activity	FIELD_PROCEDURE	TSRFLDPR	DESCRIPTION_TEXT	Long	4000	Not Null	A long description that provides further information about the Field Sampling Procedure.	
Column	8	Field Activity	FIELD_PROCEDURE	TSRFLDPR	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	9	Field Activity	FIELD_PROCEDURE	TSRFLDPR	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	10	Field Activity	FIELD_PROCEDURE	TSRFLDPR	TSMORGAN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMORGAN implements "One Organization may define many Field Sample Creation/Collection Procedures."	Key must pre-exist in TSMORGAN.
FK Column	11	Field Activity	FIELD_PROCEDURE	TSRFLDPR	TSRCITN_IS_NUMBER	Number	12,0	Null	The foreign key to TSRCITN implements "One Literature Citation may document or describe many Field Sample collection/Creation Procedures."	
FK Column	12	Field Activity	FIELD_PROCEDURE	TSRFLDPR	TSRCITN_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRCITN.	



Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	FIELD_QC_SAMPLE	TSRFQS	TSRFQS				Field QC samples (field blanks, field spikes, stock solution samples, reagent blank) are prepared in the field and are sent to a laboratory along with other, "real" samples. The laboratory is not notified of the presence of QC samples and, therefore, processes and analyzes them like any other sample. If the lab analysis does not return the anticipated result for the QC sample, then the field team knows that there were QC violations committed by the lab.	
Column	2	Field Activity	FIELD_QC_SAMPLE	TSRFQS	TSRFQS_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Field Activity	FIELD_QC_SAMPLE	TSRFQS	TSRFQS_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Field Activity	FIELD_QC_SAMPLE	TSRFQS	ID_CODE	Char	12	Not Null	The Organization-defined alphanumeric code that identifies a Field QC Sample. This number must be unique within the Trip. Used as a shorthand or abbreviation to represent the Field QC Sample in batch data update runs.	
Column	5	Field Activity	FIELD_QC_SAMPLE	TSRFQS	TYPE_NAME	Varchar2	24	Not Null	The type of Field QC Sample being described.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRFQS, and FIELD_NAME is TYPE_NAME.
Column	6	Field Activity	FIELD_QC_SAMPLE	TSRFQS	NAME	Varchar2	30	Null	The Organization-defined long name of the Field QC Sample.	
Column	7	Field Activity	FIELD_QC_SAMPLE	TSRFQS	CREATION_DATE	Date	8	Null	The date on which the Field QC Sample was created.	
Column	8	Field Activity	FIELD_QC_SAMPLE	TSRFQS	CREATION_TIME	Date	6	Null	The time at which the Field QC Sample was created.	
Column	9	Field Activity	FIELD_QC_SAMPLE	TSRFQS	TIME_ZONE	Char	3	Null	Any of the longitudinal divisions of the earth's surface in which a standard time is kept. Each zone observes a clock time one hour earlier than the zone immediately to the east.	EST (Eastern Standard Time); CST (Central Standard Time); MST (Mountain Standard Time); PST (Pacific Standard Time); EDT (Eastern Daylight Savings Time); CDT (Central Daylight Savings Time); MDT (Mountain Daylight Savings Time); PDT (Pacific Daylight Savings Time); AST (Atlantic Standard Time); ADT (Atlantic Daylight Savings Time); GMT (Greenwich Mean Time); HI (Hawaii standard time); AK (Alaskan standard time); GU (Guam standard time); <Spaces>
Column	10	Field Activity	FIELD_QC_SAMPLE	TSRFQS	TOTAL_VOLUME_MSR	Number	14,4	Null	The total volume of material which comprises the Field QC Sample.	Decimal number, 0 to 9999999999.9999
Column	11	Field Activity	FIELD_QC_SAMPLE	TSRFQS	TOTAL_VOLUME_UN_CD	Char	3	Null	The code that represents the units in which the total volume is expressed.	gal (Gallons); qt (Quarts); pt (Pints); oz (Fluid Ounces); l (Liters); ml (Milliliters); <Spaces>
Column	12	Field Activity	FIELD_QC_SAMPLE	TSRFQS	CONTAINER_TYPE_NM	Varchar2	32	Null	The name of the style and material of the container which is used to collect and transport the sample.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRFQS, and FIELD_NAME is CONTAINER_TYPE_NM.
Column	13	Field Activity	FIELD_QC_SAMPLE	TSRFQS	CONTAINER_COLOR	Varchar2	10	Null	The color of the container which is used to collect and transport the sample.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRFQS, and FIELD_NAME is CONTAINER_COLOR.
Column	14	Field Activity	FIELD_QC_SAMPLE	TSRFQS	CONTAINER_SIZE_MSR	Number	6,2	Null	The size or volume of the container which is used to collect and transport the sample.	Decimal number 0 to 9999.99
Column	15	Field Activity	FIELD_QC_SAMPLE	TSRFQS	CONTAINER_SIZE_UN	Char	3	Null	The code that represents the units in which the container size is expressed.	gal (Gallons); qt (Quarts); pt (Pints); oz (Fluid Ounces); l (Liters); ml (Milliliters); <Spaces>
Column	16	Field Activity	FIELD_QC_SAMPLE	TSRFQS	COMMENT_TEXT	Varchar2	254	Null	User-defined text that provides further information about the Field QC Sample.	

Column	17	Field Activity	FIELD_QC_SAMPLE	TSRFQS	CREATION_METHOD	Varchar2	254	Null	User-defined text that describes how the Field QC Sample was created.	
Column	18	Field Activity	FIELD_QC_SAMPLE	TSRFQS	TRANSPORT_STORAGE	Varchar2	254	Null	User-defined text that provides further information about the Transport & Storage of the Field QC Sample.	
Column	19	Field Activity	FIELD_QC_SAMPLE	TSRFQS	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	20	Field Activity	FIELD_QC_SAMPLE	TSRFQS	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	21	Field Activity	FIELD_QC_SAMPLE	TSRFQS	TSRTRIP_IS_NUMBER	Number	12,0	Null	The foreign key to TSRTRIP implements "One Trip may result in the creation of many Field QC Samples."	Key must pre-exist in TSRTRIP.
FK Column	22	Field Activity	FIELD_QC_SAMPLE	TSRFQS	TSRTRIP_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRTRIP.	
FK Column	23	Field Activity	FIELD_QC_SAMPLE	TSRFQS	TSMPRMVL_IS_NUMBER	Number	12,0	Null	The foreign key to TSMPRMVL implements "One Permitted Value may be the Container Type Name for many Field QC Samples."	Key must pre-exist in TSMPRMVL.
FK Column	24	Field Activity	FIELD_QC_SAMPLE	TSRFQS	TSMPRMVL_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPRMVL.	
FK Column	25	Field Activity	FIELD_QC_SAMPLE	TSRFQS	TSMPRMVL0IS_NUMBER	Number	12,0	Null	The foreign key to TSMPRMVL implements "One Permitted Value may be the Container Color for many Field QC Samples."	Key must pre-exist in TSMPRMVL.
FK Column	26	Field Activity	FIELD_QC_SAMPLE	TSRFQS	TSMPRMVL0ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPRMVL.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	TSRFQSDP				An instance of Field QC Sample Default Profile defines a variety of the attributes describing the sample transport and handling for a particular sort of Field QC Sample.	
Column	2	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	TSRFQSDP_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	TSRFQSDP_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	ID_CODE	Char	10	Not Null	The Organization-defined alphanumeric code that identifies a Field QC Sample Transport and Handling Default Profile. This number must be unique within the Organization. Used as a shorthand or abbreviation to represent the Field QC Sample Transport and Storage descriptors in batch data update runs.	
Column	5	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	TYPE_NAME	Varchar2	24	Not Null	The type of Field QC Sample whose defaults are being described.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRFQSDP, and FIELD_NAME is TYPE_NAME.
Column	6	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	CONTAINER_TYPE_NM	Varchar2	32	Null	A default for the style and material of the container which is used to collect and transport a sample.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRFQSDP, and FIELD_NAME is CONTAINER_TYPE_NM.
Column	7	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	NAME	Varchar2	30	Not Null	The Organization-defined long name for a Field Sampling Default Profile. Note: Must be unique within the Organization.	
Column	8	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	CONTAINER_COLOR	Varchar2	10	Null	Default description of the color of the container used to collect and transport the sample.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRFQSDP, and FIELD_NAME is CONTAINER_COLOR.
Column	9	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	CONTAINER_SIZE_MSR	Number	6,2	Null	A default for the measure of the size of the container for a Sample.	
Column	10	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	CONTAINER_SIZE_UN	Char	3	Null	The code that represents the default units in which the container size is expressed.	gal (Gallons); qt (Quarts); pt (Pints); oz (Fluid Ounces); l (Liters); ml (Milliliters); <Spaces>
Column	11	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	COMMENT_TEXT	Varchar2	254	Null	User-defined text that provides default further information about the Field QC Sample.	
Column	12	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	CREATION_METHOD	Varchar2	254	Null	User-defined text that provides a default description of the method used to create the Field QC Sample.	
Column	13	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	14	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	15	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	TSMORGAN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMORGAN implements "One Organization may describe many Default Profiles for QC Samples."	Key must pre-exist in TSMORGAN.
FK Column	16	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	TSMPRMVL_IS_NUMBER	Number	12,0	Null	The foreign key to TSMPRMVL implements "One Permitted Value may be the default Container Type Name for many Field QC Samples."	Key must pre-exist in TSMPRMVL.
FK Column	17	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	TSMPRMVL_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPRMVL.	
FK Column	18	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	TSMPRMVL0IS_NUMBER	Number	12,0	Null	The foreign key to TSMPRMVL implements "One Permitted Value may be the default Container Color for many Field QC Samples."	Key must pre-exist in TSMPRMVL.
FK Column	19	Field Activity	FIELD_QC_SAMPLE_DEFAULT_PROFILE	TSRFQSDP	TSMPRMVL0ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPRMVL.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	FIELD_QC_SAMPLE_PERSON_ASGNMT	TSRFQSPA	TSRFQSPA				Defines the association between a field QC Sample and the Person(s) who created it.	
FK Column	2	Field Activity	FIELD_QC_SAMPLE_PERSON_ASGNMT	TSRFQSPA	TSRFQS_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRFQS implements "One Field QC Sample may be created by many Person(s)."	Key must pre-exist in TSRFQS.
FK Column	3	Field Activity	FIELD_QC_SAMPLE_PERSON_ASGNMT	TSRFQSPA	TSRFQS_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRFQS.	
FK Column	4	Field Activity	FIELD_QC_SAMPLE_PERSON_ASGNMT	TSRFQSPA	TSMPEASN_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMPEASN implements "One person may create many Field QC Samples."	Key must pre-exist in TSMPEASN.
FK Column	5	Field Activity	FIELD_QC_SAMPLE_PERSON_ASGNMT	TSRFQSPA	TSMPEASN_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMPEASN.	
Column	6	Field Activity	FIELD_QC_SAMPLE_PERSON_ASGNMT	TSRFQSPA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Field Activity	FIELD_QC_SAMPLE_PERSON_ASGNMT	TSRFQSPA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	GEAR_CONFIGURATION	TSRGRCFG	TSRGRCFG				Organization-specific configurations that define modifications to or variations of a standard Field Sampling Gear. Note: A Gear Configuration cannot be deleted if there is a Sample that is associated with it.	
Column	2	Field Activity	GEAR_CONFIGURATION	TSRGRCFG	TSRGRCFG_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Field Activity	GEAR_CONFIGURATION	TSRGRCFG	TSRGRCFG_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Field Activity	GEAR_CONFIGURATION	TSRGRCFG	ID_CODE	Char	10	Not Null	The code that identifies a Gear Configuration within the Organization. Note: Must be unique within the Organization. Used as a shorthand or abbreviation to represent the Gear Configuration in batch data update runs.	
Column	5	Field Activity	GEAR_CONFIGURATION	TSRGRCFG	NAME	Varchar2	30	Not Null	The Organization-defined name of the Gear Configuration.	
Column	6	Field Activity	GEAR_CONFIGURATION	TSRGRCFG	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Field Activity	GEAR_CONFIGURATION	TSRGRCFG	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	8	Field Activity	GEAR_CONFIGURATION	TSRGRCFG	TSMORGAN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMORGAN implements "One Organization may describe many Field Gear Configurations."	Key must pre-exist in TSMORGAN.
FK Column	9	Field Activity	GEAR_CONFIGURATION	TSRGRCFG	TSRFLDGR_IS_NUMBER	Number	12,0	Null	The foreign key to TSRFLDGR implements "One Field Gear may have many Configurations."	Key must pre-exist in TSRFLDGR.
FK Column	10	Field Activity	GEAR_CONFIGURATION	TSRGRCFG	TSRFLDGR_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRFLDGR.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Organization - Defaults	HABITAT_CLASS_SCHEME_CHAR	TSRHCS	TSRHCS				The name and description of an evaluable characteristic of the natural habitat, which will, when combined with other evaluable characteristics, comprise a habitat evaluation scheme. Field biologists use the term "metric" to describe this same concept.	
Column	2	Organization - Defaults	HABITAT_CLASS_SCHEME_CHAR	TSRHCS	TSRHCS_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Organization - Defaults	HABITAT_CLASS_SCHEME_CHAR	TSRHCS	TSRHCS_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Organization - Defaults	HABITAT_CLASS_SCHEME_CHAR	TSRHCS	ROW_ID	Varchar2	20	Null	Organization-assigned cryptic ID code representing the habitat assessment metric described by this occurrence of the table.	
Column	5	Organization - Defaults	HABITAT_CLASS_SCHEME_CHAR	TSRHCS	CHARACTERSTC_NAME	Varchar2	30	Not Null	The name of the portion of the habitat which is being evaluated. e.g., Bank erosion, bank stability, stream flow characteristics, cloud cover, and others. The habitat index, or overall score assigned to the habitat assessment, is usually included in the list of characteristics as a method of displaying its value.	
Column	6	Organization - Defaults	HABITAT_CLASS_SCHEME_CHAR	TSRHCS	DESCRIPTION_TEXT	Varchar2	1999	Null	Additional user-provided information to describe the Habitat Classification characteristic or metric being evaluated. Instructions for scoring this metric during a habitat assessment, including permitted values, are included here.	
Column	7	Organization - Defaults	HABITAT_CLASS_SCHEME_CHAR	TSRHCS	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	8	Organization - Defaults	HABITAT_CLASS_SCHEME_CHAR	TSRHCS	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	9	Organization - Defaults	HABITAT_CLASS_SCHEME_CHAR	TSRHCS	TSRCHGRP_IS_NUMBER	Number	12,0	Null	The foreign key to TSRCHGRP implements "One Characteristic Group of type Habitat may consist of many Habitat Classification Scheme Characteristics/Metrics."	Key must pre-exist in TSRCHGRP.
FK Column	10	Organization - Defaults	HABITAT_CLASS_SCHEME_CHAR	TSRHCS	TSRCHGRP_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRCHGRP.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Results	LABORATORY	TSRLAB	TSRLAB				A facility which employs Analytical Procedures to perform analysis of Characteristics to provide Results.	
Column	2	Results	LABORATORY	TSRLAB	TSRLAB_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Results	LABORATORY	TSRLAB	TSRLAB_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Results	LABORATORY	TSRLAB	NAME	Varchar2	60	Not Null	The formal title of the laboratory facility.	
Column	5	Results	LABORATORY	TSRLAB	ID_CODE	Char	8	Not Null	An abbreviation or commonly-used name of the laboratory. Used as a shorthand or abbreviation to represent the Laboratory in batch data update runs.	
Column	6	Results	LABORATORY	TSRLAB	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Results	LABORATORY	TSRLAB	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	8	Results	LABORATORY	TSRLAB	TSMORGAN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMORGAN implements "One Organization may employ many Laboratories."	Key must pre-exist in TSMORGAN.

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Domain Reference	LAB_REMARK	TSRLBRMK	TSRLBRMK				Reference table of remark codes which may be used by laboratories to indicate conditions that may affect the validity of the result.	
Column	2	Domain Reference	LAB_REMARK	TSRLBRMK	TSRLBRMK_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Domain Reference	LAB_REMARK	TSRLBRMK	TSRLBRMK_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Domain Reference	LAB_REMARK	TSRLBRMK	SHORT_NAME	Char	6	Not Null	An Organization defined cryptic code which will represent a particular laboratory remark. Used as a shorthand or abbreviation to represent the Laboratory Remark in batch data update runs.	
Column	5	Domain Reference	LAB_REMARK	TSRLBRMK	DESCRIPTION_TEXT	Varchar2	60	Not Null	The full text of the lab remark.	
Column	6	Domain Reference	LAB_REMARK	TSRLBRMK	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Domain Reference	LAB_REMARK	TSRLBRMK	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	



Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Domain Reference	LAB_SAMPLE_PREP_PROCEDURE	TSRLSPP	TSRLSPP				A formal procedure performed in the lab preparatory to an actual analytical run. Frequently the success of the analytical run is dependent upon the Sample Preparation Process.	
Column	2	Domain Reference	LAB_SAMPLE_PREP_PROCEDURE	TSRLSPP	TSRLSPP_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Domain Reference	LAB_SAMPLE_PREP_PROCEDURE	TSRLSPP	TSRLSPP_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Domain Reference	LAB_SAMPLE_PREP_PROCEDURE	TSRLSPP	OWNER_TYPE_CODE	Char	3	Not Null	The code that represents the type of organization that owns the analytical preparation.	NAT (Nationally owned); ORG (owned by the data provider)
Column	5	Domain Reference	LAB_SAMPLE_PREP_PROCEDURE	TSRLSPP	PREPARATION_ID	Char	15	Not Null	The cryptic code that represents a particular sample preparation procedure. Used as a shorthand or abbreviation to represent the Sample Preparation Procedure in batch data update runs.	
Column	6	Domain Reference	LAB_SAMPLE_PREP_PROCEDURE	TSRLSPP	NAME	Varchar2	120	Not Null	The long name of the Sample Preparation Procedure.	
Column	7	Domain Reference	LAB_SAMPLE_PREP_PROCEDURE	TSRLSPP	SOURCE_NAME	Varchar2	65	Not Null	When Nationally owned, the formal name of the organization which publishes the official description of the procedure. e.g. American Public Health Association.	
Column	8	Domain Reference	LAB_SAMPLE_PREP_PROCEDURE	TSRLSPP	SOURCE_ACR	Char	12	Null	When Nationally owned, the brief acronym representing the organization which publishes the official description of the procedure. e.g. APHA.	
Column	9	Domain Reference	LAB_SAMPLE_PREP_PROCEDURE	TSRLSPP	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	10	Domain Reference	LAB_SAMPLE_PREP_PROCEDURE	TSRLSPP	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	11	Domain Reference	LAB_SAMPLE_PREP_PROCEDURE	TSRLSPP	TSRCITN_IS_NUMBER	Number	12,0	Null	The foreign key to TSRCITN implements "One Literature Citation may describe many Laboratory Sample Preparation Procedures.	Key must pre-exist in TSRCITN.
FK Column	12	Domain Reference	LAB_SAMPLE_PREP_PROCEDURE	TSRLSPP	TSRCITN_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRCITN.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	SAMPLE_MATRIX	TSRMATRIX	TSRMATRIX				Used to further define the medium of a Sample. Optional for all medium types. This table defines the domain of valid values for sampled matrix.	
Column	2	Field Activity	SAMPLE_MATRIX	TSRMATRIX	TSRMATRIX_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Field Activity	SAMPLE_MATRIX	TSRMATRIX	TSRMATRIX_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Field Activity	SAMPLE_MATRIX	TSRMATRIX	CODE	Char	4	Not Null	A cryptic code which represents the sampled matrix. Used as a shorthand or abbreviation to represent the Sampled Matrix in batch data update runs.	
Column	5	Field Activity	SAMPLE_MATRIX	TSRMATRIX	NAME	Varchar2	25	Not Null	The short name of the Sample Matrix. Used in populating the drop down list on data entry windows.	
Column	6	Field Activity	SAMPLE_MATRIX	TSRMATRIX	DESCRIPTION	Varchar2	120	Not Null	Full description or definition of the sampled matrix.	
Column	7	Field Activity	SAMPLE_MATRIX	TSRMATRIX	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	8	Field Activity	SAMPLE_MATRIX	TSRMATRIX	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Organization - Defaults	ORG_ANALYTICAL_PROCEDURE_ASGMT	TSROAPA	TSROAPA				Defines the association between an Organization and the Lab Methods (Analytical Procedures) it employs to obtain environmental results.	
FK Column	2	Organization - Defaults	ORG_ANALYTICAL_PROCEDURE_ASGMT	TSROAPA	TSMORGAN_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMORGAN implements "One Organization may utilize many Analytical Procedures in the Lab and in the Field."	Key must pre-exist in TSMORGAN.
FK Column	3	Organization - Defaults	ORG_ANALYTICAL_PROCEDURE_ASGMT	TSROAPA	TSRANLPR_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRANLPR implements "One Analytical Procedure may be employed by many Organizations."	Key must pre-exist in TSRANLPR.
FK Column	4	Organization - Defaults	ORG_ANALYTICAL_PROCEDURE_ASGMT	TSROAPA	TSRANLPR_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRANLPR.	
Column	5	Organization - Defaults	ORG_ANALYTICAL_PROCEDURE_ASGMT	TSROAPA	TYPE_CODE	Char	2	Not Null	A code indicating if the Organization has adopted the National Procedure or the Organization owns the Procedure.	OW (owns the procedure); AD (adopted the procedure from National list.)
Column	6	Organization - Defaults	ORG_ANALYTICAL_PROCEDURE_ASGMT	TSROAPA	SUSPEND_INDICATOR	Char	1	Not Null	A code indicating whether or not the organization has suspended use of the particular Lab Method/Analytical procedure. Methods no longer in use may not be deleted without damaging the links between historical results and the method, but they may be suspended.	Y (yes, method is suspended); N (no, method is not suspended)
Column	7	Organization - Defaults	ORG_ANALYTICAL_PROCEDURE_ASGMT	TSROAPA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	8	Organization - Defaults	ORG_ANALYTICAL_PROCEDURE_ASGMT	TSROAPA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Organization - Defaults	ORG_ANA_PROC_CHAR_ASGNMT	TSROAPCA	TSROAPCA				Defines the association between the analytical methods associated with an organization, and the characteristics whose values may be determined through use of those methods.	
FK Column	2	Organization - Defaults	ORG_ANA_PROC_CHAR_ASGNMT	TSROAPCA	TSRCHAR_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRCHAR implements "One Characteristic may be determined by many Analytical Procedures associated with this organization."	Key must pre-exist in TSRCHAR.
FK Column	3	Organization - Defaults	ORG_ANA_PROC_CHAR_ASGNMT	TSROAPCA	TSRCHAR_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRCHAR.	
FK Column	4	Organization - Defaults	ORG_ANA_PROC_CHAR_ASGNMT	TSROAPCA	TSMORGAN_IS_NUMBER	Number	12,0	Not Null	The foreign key to Organization implements "One Organization may evaluate many characteristics using its chosen set of Analytical methods."	Key must pre-exist in TSMORGAN.
FK Column	5	Organization - Defaults	ORG_ANA_PROC_CHAR_ASGNMT	TSROAPCA	TSRANLPR_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRANLPR implements "One Analytical Procedure may be employed by this Organizations in evaluating many characteristics."	Key must pre-exist in TSRANLPR.
FK Column	6	Organization - Defaults	ORG_ANA_PROC_CHAR_ASGNMT	TSROAPCA	TSRANLPR_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRANLPR.	
Column	7	Organization - Defaults	ORG_ANA_PROC_CHAR_ASGNMT	TSROAPCA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	8	Organization - Defaults	ORG_ANA_PROC_CHAR_ASGNMT	TSROAPCA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Organization - Defaults	ORG_LAB_SMPL_PREP_PRCORE_ASGMT	TSROLSPA	TSROLSPA				Defines the association between an Organization and the Lab Sample Preparation Procedures it employs to obtain environmental results.	
FK Column	2	Organization - Defaults	ORG_LAB_SMPL_PREP_PRCORE_ASGMT	TSROLSPA	TSMORGAN_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMORGAN implements "One Organization may employ many Lab Sample Preparation Procedures."	Key must pre-exist in TSMORGAN.
FK Column	3	Organization - Defaults	ORG_LAB_SMPL_PREP_PRCORE_ASGMT	TSROLSPA	TSRLSPP_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRLSPP implements "One Lab Sample Preparation Procedure may be employed by many Organizations."	Key must pre-exist in TSRLSPP.
FK Column	4	Organization - Defaults	ORG_LAB_SMPL_PREP_PRCORE_ASGMT	TSROLSPA	TSRLSPP_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRLSPP.	
Column	5	Organization - Defaults	ORG_LAB_SMPL_PREP_PRCORE_ASGMT	TSROLSPA	TYPE_CODE	Char	2	Not Null	A code indicating if the Organization has adopted the National Lab Sample Preparation or the organization owns the method.	OW (owns the procedure); AD (adopted the procedure from National list.)
Column	6	Organization - Defaults	ORG_LAB_SMPL_PREP_PRCORE_ASGMT	TSROLSPA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Organization - Defaults	ORG_LAB_SMPL_PREP_PRCORE_ASGMT	TSROLSPA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Data Logger	OPERATING_PERIOD	TSROPPRD	TSROPPRD				An Operating Period occurs when an Automated Data Logger is installed at a Station, and is then set to take repeated measurements at fixed intervals over a specific time interval with both a start and end time explicitly defined.	
Column	2	Data Logger	OPERATING_PERIOD	TSROPPRD	TSROPPRD_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Data Logger	OPERATING_PERIOD	TSROPPRD	TSROPPRD_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Data Logger	OPERATING_PERIOD	TSROPPRD	LOG_FILE_NAME	Char	12	Not Null	The code by which the electronic file containing the complete record of the operating period is known. Must be unique within the Data Logger Installation.	
Column	5	Data Logger	OPERATING_PERIOD	TSROPPRD	INTERVAL_HOURS	Number	5	Null	The Hours portion of the interval at which the data logger will repeat its measurements during this operating period.	
Column	6	Data Logger	OPERATING_PERIOD	TSROPPRD	INTERVAL_MINUTES	Number	2	Null	The Minutes portion of the interval at which the data logger will repeat its measurements during this operating period.	
Column	7	Data Logger	OPERATING_PERIOD	TSROPPRD	INTERVAL_SECONDS	Number	2	Null	The Seconds portion of the interval at which the data logger will repeat its measurements during this operating period.	
Column	8	Data Logger	OPERATING_PERIOD	TSROPPRD	START_DATE	Date	8	Not Null	The calendar data on which the data logger is set to begin taking recorded readings of its probes.	
Column	9	Data Logger	OPERATING_PERIOD	TSROPPRD	START_TIME	Date	6	Not Null	The clock time at which the data logger is set to begin taking recorded readings of its probes.	
Column	10	Data Logger	OPERATING_PERIOD	TSROPPRD	STOP_DATE	Date	8	Not Null	The calendar data on which the data logger is set to stop taking recorded readings of its probes.	
Column	11	Data Logger	OPERATING_PERIOD	TSROPPRD	STOP_TIME	Date	6	Not Null	The clock time at which the data logger is set to stop taking recorded readings of its probes.	
Column	12	Data Logger	OPERATING_PERIOD	TSROPPRD	COMMENT_TEXT	Varchar2	254	Null	User defined free text providing additional information about the data logger operating period.	
Column	13	Data Logger	OPERATING_PERIOD	TSROPPRD	BLOB_TYPE	Char	3	Null	The electronic record of the data collected during an operating period may be stored as a Binary Large Object, or BLOB. The BLOB may be a document or a graphic object. This field defines the type of BLOB which further defines this operating period. A foreign key in TSMBLOB identifies the BLOB which is linked to this operating period.	
Column	14	Data Logger	OPERATING_PERIOD	TSROPPRD	BLOB_TITLE	Varchar2	60	Null	User-defined Title defining or describing the BLOB Content.	
Column	15	Data Logger	OPERATING_PERIOD	TSROPPRD	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	16	Data Logger	OPERATING_PERIOD	TSROPPRD	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	17	Data Logger	OPERATING_PERIOD	TSROPPRD	TSRADL_IS_NUMBER	Number	12,0	Null	The foreign key to TSRADL implements "One data logger installation may include many different operation periods."	Key must pre-exist in TSRADL.
FK Column	18	Data Logger	OPERATING_PERIOD	TSROPPRD	TSRADL_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRADL.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Data Logger	PROJECT_OPERATING_PERIOD_ASGMNT	TSRPOPA	TSRPOPA				Deines the association between operating periods of a data logger and the organization's projects.	
Column	2	Data Logger	PROJECT_OPERATING_PERIOD_ASGMNT	TSRPOPA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	3	Data Logger	PROJECT_OPERATING_PERIOD_ASGMNT	TSRPOPA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	4	Data Logger	PROJECT_OPERATING_PERIOD_ASGMNT	TSRPOPA	TSROPFRD_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSROPFRD.	
FK Column	5	Data Logger	PROJECT_OPERATING_PERIOD_ASGMNT	TSRPOPA	TSROPFRD_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSROPFRD implements "One Operating Period of a data logger may be associated with many Projects."	Key must pre-exist in TSROPFRD.
FK Column	6	Data Logger	PROJECT_OPERATING_PERIOD_ASGMNT	TSRPOPA	TSMPROJ_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMPROJ implements "One Project may be associated with many Data Logger Operating Periods."	Key must pre-exist in TSMPROJ.
FK Column	7	Data Logger	PROJECT_OPERATING_PERIOD_ASGMNT	TSRPOPA	TSMPROJ_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMPROJ.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Results	RESULT_CLASS_INTERVAL	TSRRCI	TSRRCI				The range of values with a defined minimum and maximum which defines a frequency class. For analytical results where the characteristic is a count or percent of the substance analyzed, the individual count or percent is typically further qualified by a range or frequency class to which it applies.	
FK Column	2	Results	RESULT_CLASS_INTERVAL	TSRRCI	TSRRSULT_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRRSULT implements "One Result reports a value associated with one Result Class Interval."	Key must pre-exist in TSRRSULT.
FK Column	3	Results	RESULT_CLASS_INTERVAL	TSRRCI	TSRRSULT_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRRSULT.	
Column	4	Results	RESULT_CLASS_INTERVAL	TSRRCI	LOWER_BND_AMT	Number	7,2	Null	Represents the value of the lower bound of the result class interval.	
Column	5	Results	RESULT_CLASS_INTERVAL	TSRRCI	UPPER_BND_AMT	Number	7,2	Null	Represents the value of the upper bound of the result class interval.	
Column	6	Results	RESULT_CLASS_INTERVAL	TSRRCI	PRIM_CLASS_DESC	Char	12	Null	For Biological Frequency Classes based on physical measures of a group of organisms, this optionally defines either the Sex or the Lifestage of all organisms participating in the frequency class.	
Column	7	Results	RESULT_CLASS_INTERVAL	TSRRCI	SEC_CLASS_DESC	Char	12	Null	For Biological Frequency Classes based on physical measures of a group of organisms, this optionally defines either the Sex or the Lifestage (whichever was not used as Primary) of all organisms participating in the frequency class.	
Column	8	Results	RESULT_CLASS_INTERVAL	TSRRCI	PARTICLE_SIZE_BASIS	Varchar2	40	Null	User defined free text describing the particle size class for which the associated result is defined..	
Column	9	Results	RESULT_CLASS_INTERVAL	TSRRCI	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	10	Results	RESULT_CLASS_INTERVAL	TSRRCI	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	11	Results	RESULT_CLASS_INTERVAL	TSRRCI	TSRUOM_IS_NUMBER	Number	12,0	Null	The foreign key to TSRUOM implements "One Unit of Measure qualifies many upper and lower bounds of Result Class Intervals."	Key must pre-exist in TSRUOM.
FK Column	12	Results	RESULT_CLASS_INTERVAL	TSRRCI	TSRUOM_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRUOM.	



Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Results	RESULT_LAB_REMARK_ASGNMT	TSRRLRA	TSRRLRA				Defines the association between a monitoring result and any remarks supplied by the lab which performed the analysis to qualify the result.	
FK Column	2	Results	RESULT_LAB_REMARK_ASGNMT	TSRRLRA	TSRRSULT_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRRSULT implements "One Result may have many Lab Remarks."	Key must pre-exist in TSRRSULT.
FK Column	3	Results	RESULT_LAB_REMARK_ASGNMT	TSRRLRA	TSRRSULT_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRRSULT.	
FK Column	4	Results	RESULT_LAB_REMARK_ASGNMT	TSRRLRA	TSRLBRMK_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRLBRMK implements "One Lab Remark may qualify many Results."	Key must pre-exist in TSRLBRMK.
FK Column	5	Results	RESULT_LAB_REMARK_ASGNMT	TSRRLRA	TSRLBRMK_ORG_ID	Char	8	Not Null	The TSMORGAN poition of the foreign key to TSRLBRMK.	
Column	6	Results	RESULT_LAB_REMARK_ASGNMT	TSRRLRA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Results	RESULT_LAB_REMARK_ASGNMT	TSRRLRA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Results	RESULT_QC_ADJUSTMENT_FACTOR	TSRRQCAF	TSRRQCAF				Factors requiring adjustments to the result value. The identified factors have already been applied to the result value and are thereby associated with the result.	
Column	2	Results	RESULT_QC_ADJUSTMENT_FACTOR	TSRRQCAF	TSRRQCAF_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Results	RESULT_QC_ADJUSTMENT_FACTOR	TSRRQCAF	TSRRQCAF_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Results	RESULT_QC_ADJUSTMENT_FACTOR	TSRRQCAF	TYPE_NAME	Varchar2	24	Not Null	Represents the type of QC factor applied to and associated with the result value.	Analyte Reference Std; Instr Performance Check; Lab Instrument Blank; Lab Fortified Blank; Lab Matrix Spike; Lab Matrix Spike Dupl; Lab Sub-Sample Repl Anal; Lab Control (zero blind); Lab Reagent Blank; Method Blank; Proficiency Eval Sample -- There are three categories: 1. Pre-Qualification 2. Periodic 3. Batch Specific -- Single Blind PES -- Double Blind PES -- Zero Blind PES; Lab Storage Blank; Lab Blank Spike; Lab Blank Spike Dupl; Lab Equipment Blank; Lab Material Blank; Lab Material Rinse Blank; Lab Ref Material Rinse; Lab Ref Matl. Rinse Dupl; Recovery/Spike; Recovery/Dilution; Correction/Blank; Recovery/Surrogate; Corr./Comprehensive; Corr./Surrogate Spike; Sample Dilution; Lab Split Repl Analysis; <Spaces>;
Column	5	Results	RESULT_QC_ADJUSTMENT_FACTOR	TSRRQCAF	VALUE_TEXT	Char	12	Not Null	The textual form that represents the value (normally numeric) of the QC adjustment applied to and associated with a particular result.	
Column	6	Results	RESULT_QC_ADJUSTMENT_FACTOR	TSRRQCAF	DESCRIPTION_TEXT	Varchar2	60	Null	Additional user specified text that may describe the sequence and actual adjustment process by which the factor was applied.	
Column	7	Results	RESULT_QC_ADJUSTMENT_FACTOR	TSRRQCAF	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	8	Results	RESULT_QC_ADJUSTMENT_FACTOR	TSRRQCAF	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	9	Results	RESULT_QC_ADJUSTMENT_FACTOR	TSRRQCAF	TSRRSULT_IS_NUMBER	Number	12,0	Null	The foreign key to TSRRSULT implements "One Result may be associated with many QC Adjustment Factors."	Key must pre-exist in TSRRSULT.
FK Column	10	Results	RESULT_QC_ADJUSTMENT_FACTOR	TSRRQCAF	TSRRSULT_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRRSULT.	
FK Column	11	Results	RESULT_QC_ADJUSTMENT_FACTOR	TSRRQCAF	TSRUOM_IS_NUMBER	Number	12,0	Null	The foreign key to TSRUOM implements "One Unit of Measure may be the reporting units for each QC Adjustment Factor Value."	Key must pre-exist in TSRUOM.
FK Column	12	Results	RESULT_QC_ADJUSTMENT_FACTOR	TSRRQCAF	TSRUOM_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRUOM.	
FK Column	13	Results	RESULT_QC_ADJUSTMENT_FACTOR	TSRRQCAF	TSMPRMVL_IS_NUMBER	Number	12,0	Null	The foreign key to TSMPRMVL implements "One permitted value may be the value associated with many QC adjustment factors."	Key must pre-exist in TSMPRMVL.
FK Column	14	Results	RESULT_QC_ADJUSTMENT_FACTOR	TSRRQCAF	TSMPRMVL_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPRMVL.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Results	RESULT	TSRRRESULT	TSRRRESULT				Information about an environmental characteristic determined as a result of either field measurements, observations or analytical procedures performed on samples. Note: Existing STORET has over 200 million results. This will be the largest table in the STORET Database.	
Column	2	Results	RESULT	TSRRRESULT	TSRRRESULT_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Results	RESULT	TSRRRESULT	TSRRRESULT_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Results	RESULT	TSRRRESULT	D_ASSND_SEQ_NUM	Number	5	Not Null	Sequence number used to order a list of results on screens and in reports. Users can change the apparent order of results within a list by resequencing the characteristic line items, using the functions CUT, COPY, and PASTE AFTER.	
Column	5	Results	RESULT	TSRRRESULT	COMP_IND_CD	Char	1	Not Null	A flag indicating whether or not a particular Result is complete, as defined by the business rules and the requirements on the specific characteristic. Note: This field may be used to implement a "Sunset Rule" for the deletion of stale incomplete results.	Y (yes, result is complete); N (no, result is incomplete);
Column	6	Results	RESULT	TSRRRESULT	LAB_CERT_IND_CODE	Char	1	Null	A code indicating whether the laboratory was certified for the analyte and the analytical procedure at the time that the result determination was made.	Y (yes, lab was certified); N (no, lab was not certified)
Column	7	Results	RESULT	TSRRRESULT	VALUE_TEXT	Char	15	Null	The alpha-numeric representation of the result of analyzing, measuring, or observing a Characteristic. Note: All edit windows will have this attribute placed on the window with the intention that all numeric values will also be stored numerically as VALUE_MEASURE to support mathematical computations. Reports and displays will display the text form of all results, preserving the exact form in which data entry was done. Characteristics for which values must be taken from permitted text values found in table TSRCVP will carry NULL in the corresponding VALUE_MEASURE field, and their chosen textual value in this field. *TEXT signifies that the result consists of long free text. The actual long free text is stored in table TSMGNTXT. *Present<QL, *Present>QL, and *Not Detected are textual entries in this field to indicate that a detection condition exists.	
Column	8	Results	RESULT	TSRRRESULT	VALUE_MEASURE	Number	13,5	Null	The numeric representation of the result of analyzing a Characteristic with an Analytical Procedure. Note: This value will be determined by converting the text values from Value Text. This conversion to numeric is always attempted during data entry, and when successful, its result is placed in this field.	

Column	9	Results	RESULT	TSRRRESULT	VALUE_STATUS	Char	1	Not Null	Result value is either Preliminary or Final. This attribute will be used for query purposes. Values marked as Preliminary are not displayed for public access on STORET Internet sites.	P (Preliminary, not for display); F (final)
Column	10	Results	RESULT	TSRRRESULT	PRECISION_AMT_TEXT	Char	12	Null	Estimate of the maximum possible error in the result. (e.g., Counting error in determining radiological beta particle counts.)	
Column	11	Results	RESULT	TSRRRESULT	LAB_BATCH_ID_CODE	Char	12	Null	The code that represents the laboratory batch ID for a result or a group of results. Batch ID may be used to link with Laboratory Data files, which may contain useful information further describing the reported result.	
Column	12	Results	RESULT	TSRRRESULT	DILUTION_IND_CODE	Char	1	Null	A code indicating that the result has been calculated from an analysis performed on a diluted sample.	Y (yes); N (no);
Column	13	Results	RESULT	TSRRRESULT	RECOVERY_IND_CODE	Char	1	Null	A code indicating whether the reported result has been adjusted in accordance with a recovery factor.	Y (yes); N (no);
Column	14	Results	RESULT	TSRRRESULT	CORRECTION_IND_CD	Char	1	Null	A code indicating whether the reported result has been adjusted in accordance with a correction factor.	Y (yes); N (no);
Column	15	Results	RESULT	TSRRRESULT	BIAS	Char	12	Null	A consistent deviation of measured values from the true value, caused by systematic errors in a procedure, as determined by applying identical procedures to a specimen of known properties.	
Column	16	Results	RESULT	TSRRRESULT	CONF_LVL_CORR_BIAS	Char	1	Null	A code indicating whether the confidence level has been corrected for Bias.	Y (yes); N (no);
Column	17	Results	RESULT	TSRRRESULT	RSLT_TXT_IND_CD	Char	1	Null	A code indicating whether the result has as its value long free text, actually stored in table TSMGNTXT. If so, the string *TEXT is placed in the VALUE_TEXT field.	Y (yes); N (no);
Column	18	Results	RESULT	TSRRRESULT	CELL_DESC_IND_CD	Char	1	Null	A code indicating that the result has additional information relating to a phytoplankton cell form. If so, this information is placed in table TSRCLEDES.	Y (yes); N (no);
Column	19	Results	RESULT	TSRRRESULT	CONF_LVL_PCT_MSR	Char	8	Null	When a result has a confidence interval the confidence level associated with the interval is recorded in this field. Example: +/- .004, 95% confidence interval. Only applicable when there is a Precision Value Text.	75; 80; 85; 90; 95; 97.5; 99; 99.9; <Spaces>
Column	20	Results	RESULT	TSRRRESULT	PROC_EXCPTN_IND_CD	Char	1	Null	A code indicating if an exception was used to the analytical procedure for the result.	Y (yes); N (no);
Column	21	Results	RESULT	TSRRRESULT	DUR_BASIS_TYPE_NM	Char	10	Null	The period of time (in days) over which a measurement was made. For example, BOD can be measured as 5 day or 20 day BOD.	24 Hours; 96 Hours; 1 Day; 2 Day; 3 Day; 4 Day; 5 Day; 6 Day; 7 Day; 8 Day; 9 Day; 10 Day; 11 Day; 12 Day; 13 Day; 14 Day; 15 Day; 16 Day; 17 Day; 18 Day; 19 Day; 20 Day; 21 Day; 22 Day; 23 Day; 24 Day; 25 Day; 26 Day; 27 Day; 28 Day; 29 Day; 30 Day; 90 Day; 60 Day; 120 Day; 6 Month; 1 Year; <Spaces>
Column	22	Results	RESULT	TSRRRESULT	DETECT_COND_CD	Varchar2	30	Null	The text indicating whether a characteristic was detected, and if it was detected whether or not it was in a range which permitted it to be quantified.	Present below Quantification; Present above Quantification; Not Detected; Detected and Quantified; Detected not Quantified; Not Reported; <Spaces>;
Column	23	Results	RESULT	TSRRRESULT	SMPL_FRAC_TYPE_NM	Varchar2	15	Null	Description: The text name of the portion of the sample associated with results obtained from a physically-partitioned sample. Examples: - dissolved - suspended - total	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRRRESULT, and FIELD_NAME is SMPL_FRAC_TYPE_NM.

Column	24	Results	RESULT	TSRRRESULT	STATISTIC_TYPE_NM	Char	18	Null	A statistic or calculation type which describes the reported result (e.g., average, mode, median, MPN).	Mean (The arithmetic average of a set of numbers or measurements); Maximum (Denotes the numerical result of largest value); Median (In an ordered set of numbers, the most central value or the middle value); Mode (In a set of results or measurements, that value which occurs most frequently); Minimum (Denotes the numerical result with the smallest value); Standard Deviation (A measure of the dispersion of a set of results or measurements. Mathematically, the square root of the arithmetic average of the squares of the individual deviations from the arithmetic mean, or the square root of the VARIANCE); MPN (Most Probable Number. A result predicted, rather than measured, by the method employed. Usually applied to counts of colony forming units like bacteria or algae); 5 pctl; 10 pctl; 15 pctl; 20 pctl; 25 pctl; 75 pctl; 80 pctl; 85 pctl; 90 pctl; 95 pctl; <Spaces> (Needed to permit clearing field. Also conveys the meaning of "simple result")
Column	25	Results	RESULT	TSRRRESULT	VALUE_TYPE_NAME	Char	10	Null	A name that represents the process which was used in the determination of the result value (e.g., actual, estimated, calculated).	Actual; Estimated; Calculated; <Spaces>;
Column	26	Results	RESULT	TSRRRESULT	WT_BASIS_TYPE_NM	Char	12	Null	The name that represents the form of the sample or portion of the sample which is associated with the result value (e.g., wet weight, dry weight, ash-free dry weight).	Wet (The wet weight of the material); Dry (The material dried in a dry oven); Ash-Free Dry (Applies to samples dried at a high temperature (e.g., in a furnace at 550 C) used in soil sediment and tissue weight determination); <Spaces> (Needed to permit clearing field. Also describes measurements made without regard to a weight basis)
Column	27	Results	RESULT	TSRRRESULT	TEMP_BASIS_LVL_NM	Char	8	Null	The name that represents the controlled temperature at which the sample was maintained during analysis.	05 Deg C; 10 Deg C; 15 Deg C; 20 Deg C; 25 Deg C; <Spaces> (Needed to permit clearing field. Also denotes measurements made without regard to a controlled temperature)
Column	28	Results	RESULT	TSRRRESULT	SPECIES_NUMBER	Char	8	Null	A number assigned as a part of a taxonomic identification. Used with a valid genus (or higher rank) name to indicate a unique species has been observed but not taxonomically identified (e.g., lepomis sp.1).	sp.1; sp.2; sp.3; sp.4; sp.5; sp.6; sp.7; sp.8; sp.9; <Spaces>
Column	29	Results	RESULT	TSRRRESULT	REF_PT_FROM_NAME	Varchar2	20	Null	The point from which a measurement such as surface elevation or stream width is taken.	
Column	30	Results	RESULT	TSRRRESULT	REF_PT_TO_NAME	Varchar2	20	Null	The point to which a measurement such as stream width or surface elevation was taken.	
Column	31	Results	RESULT	TSRRRESULT	LOWER_RANGE_VALUE	Number	13,5	Null	Represents the lower bound value of the result. Values stored below this limit cause warning messages to appear during data entry.	Decimal number,0-99999999.99999
Column	32	Results	RESULT	TSRRRESULT	UPPER_RANGE_VALUE	Number	13,5	Null	Represents the upper bound value of the result. Values stored above this limit cause warning messages to appear during data entry.	Decimal number,0-99999999.99999
Column	33	Results	RESULT	TSRRRESULT	TAXON_POLLUTION	Char	4	Null	For entries representing taxa, a code representing the ability of the reported taxon to tolerate pollution.	
Column	34	Results	RESULT	TSRRRESULT	FNCTIONAL_FEED_GRP	Char	6	Null	For entries representing taxa, a code representing the functional feeding group with which the reported taxon is typically associated.	
Column	35	Results	RESULT	TSRRRESULT	TROPHIC_LEVEL	Char	4	Null	For entries representing taxa, a code representing the trophic level with which the reported taxon is typically assigned.	
Column	36	Results	RESULT	TSRRRESULT	ANALYSIS_DATE	Date	8	Null	The date on which laboratory analysis of the sample for this particular result was performed.	

Column	37	Results	RESULT	TSRRSULT	ANALYSIS_TIME	Date	6	Null	The time of day at which laboratory analysis of the sample for this particular result was performed.	
Column	38	Results	RESULT	TSRRSULT	ANALYSIS_TIME_ZONE	Char	3	Null	The time zone for which the time of day is reported. Any of the longitudinal divisions of the earth's surface in which a standard time is kept. Each zone observes a clock time one hour earlier than the zone immediately to the east.	EST (Eastern Standard Time); CST (Central Standard Time); MST (Mountain Standard Time); PST (Pacific Standard Time); EDT (Eastern Daylight Savings Time); CDT (Central Daylight Savings Time); MDT (Mountain Daylight Savings Time); PDT (Pacific Daylight Savings Time); AST (Atlantic Standard Time); ADT (Atlantic Daylight Savings Time); GMT (Greenwich Mean Time); HI (Hawaii standard time); AK (Alaskan standard time); GU (Guam standard time); <Spaces>
Column	39	Results	RESULT	TSRRSULT	REPL_ANALYSIS_NUM	Number	2	Null	When the laboratory analysis is repeated for quality control purposes, the number of the specific replicate being reported for this specific result.	Integer 0 to 99
Column	40	Results	RESULT	TSRRSULT	BLOB_TYPE	Char	3	Null	A result may be further described by a Binary Large Object, or BLOB. The BLOB may be a document or a graphic object. This field defines the type of BLOB which further defines this result. A foreign key in table TSMBLOB identifies the BLOB which is linked to the Station.	JPG; BMP; GIF; TXT; PDF; <Spaces>
Column	41	Results	RESULT	TSRRSULT	BLOB_TITLE	Varchar2	60	Null	User-defined Title defining or describing the BLOB Content.	
Column	42	Results	RESULT	TSRRSULT	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	43	Results	RESULT	TSRRSULT	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	44	Results	RESULT	TSRRSULT	TSRFDACT_IS_NUMBER	Number	12,0	Null	The foreign key to TSRFDACT implements "One Field Activity may produce many Results."	Key must pre-exist in TSRFDACT.
FK Column	45	Results	RESULT	TSRRSULT	TSRFDACT_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRFDACT.	
FK Column	46	Results	RESULT	TSRRSULT	TSRFQS_IS_NUMBER	Number	12,0	Null	The foreign key to TSRFQS implements "One Field QC Sample may further define many Results."	Key must pre-exist in TSRFQS.
FK Column	47	Results	RESULT	TSRRSULT	TSRFQS_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRFQS.	
FK Column	48	Results	RESULT	TSRRSULT	TSRANLPR_IS_NUMBER	Number	12,0	Null	The foreign key to TSRANLPR implements "One Analytica Procedure/Lab Method may produce many Results."	Key must pre-exist in TSRANLPR.
FK Column	49	Results	RESULT	TSRRSULT	TSRANLPR_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRANLPR.	
FK Column	50	Results	RESULT	TSRRSULT	TSRBIRGI_IS_NUMBER	Number	12,0	Null	The foreign key to TSRBIRGI implements "One Biological Result Group-Individual may have many Results."	Key must pre-exist in TSRBIRGI.
FK Column	51	Results	RESULT	TSRRSULT	TSRBIRGI_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRBIRGI.	
FK Column	52	Results	RESULT	TSRRSULT	TSRBIRG_IS_NUMBER	Number	12,0	Null	The foreign key to TSRBIRG implements "One Biological Result Group may have many Results."	Key must pre-exist in TSRBIRG.
FK Column	53	Results	RESULT	TSRRSULT	TSRBIRG_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRBIRG.	
FK Column	54	Results	RESULT	TSRRSULT	TSRCHAR_IS_NUMBER	Number	12,0	Null	The foreign key to TSRCHAR implements "One Characteristic may be the thing measured or reported for many results."	Key must pre-exist in TSRCHAR.
FK Column	55	Results	RESULT	TSRRSULT	TSRCHAR_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRCHAR.	
FK Column	56	Results	RESULT	TSRRSULT	TSRCHAR0IS_NUMBER	Number	12,0	Null	The foreign key to TSRCHAR implements "One taxon Characteristic may be the subject taxon for many results."	Key must pre-exist in TSRCHAR.
FK Column	57	Results	RESULT	TSRRSULT	TSRCHAR0ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRCHAR.	
FK Column	58	Results	RESULT	TSRRSULT	TSRLAB_IS_NUMBER	Number	12,0	Null	The foreign key to TSRLAB implements "One Laboratory may report many Results."	Key must pre-exist in TSRLAB.

FK Column	59	Results	RESULT	TSRRRESULT	TSRLAB_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRLAB	
FK Column	60	Results	RESULT	TSRRRESULT	TSRUOM_IS_NUMBER	Number	12,0	Null	The foreign key to TSRUOM implements "One Unit of Measure may apply to many Results."	Key must pre-exist in TSRUOM.
FK Column	61	Results	RESULT	TSRRRESULT	TSRUOM_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRUOM.	
FK Column	62	Results	RESULT	TSRRRESULT	TSRLSPP_IS_NUMBER	Number	12,0	Null	The foreign key to TSRLSPP implements "One Lab Sample Preparation Procedure may be used as a part of the process for obtaining many Results."	Key must pre-exist in TSRLSPP.
FK Column	63	Results	RESULT	TSRRRESULT	TSRLSPP_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRLSPP.	
FK Column	64	Results	RESULT	TSRRRESULT	TSRHCSC_IS_NUMBER	Number	12,0	Null	The foreign key to TSRHCSC implements "One Habitat Classification Scheme Characteristic/Metric may be the thing being measured or reported for many results."	Key must pre-exist in TSRHCSC.
FK Column	65	Results	RESULT	TSRRRESULT	TSRHCSC_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRHCSC.	
FK Column	66	Results	RESULT	TSRRRESULT	TSMPRMVL_IS_NUMBER	Number	12,0	Null	The foreign key to TSMPRMVL implements "One Permitted Value may be the Sample Fraction for many Results."	Key must pre-exist in TSMPRMVL.
FK Column	67	Results	RESULT	TSRRRESULT	TSMPRMVL_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPRMVL.	
FK Column	68	Results	RESULT	TSRRRESULT	TSRDLIN_ORG_ID	Char	8	Null	The foreign key to TSRDLIN implements "One Portable Data Logger reading/Data Line may produce many results."	Key must pre-exist in TSRDLIN.
FK Column	69	Results	RESULT	TSRRRESULT	TSRDLIN_IS_NUMBER	Number	12,0	Null	The TSMORGAN portion of the foreign key to TSRDLIN.	
FK Column	70	Results	RESULT	TSRRRESULT	TSMPRMVL0IS_NUMBER	Number	12,0	Null	The foreign key to TSMPRMVL implements "One Permitted Value may be the Biological Habit for many biological taxon Results."	Key must pre-exist in TSMPRMVL.
FK Column	71	Results	RESULT	TSRRRESULT	TSMPRMVL0ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPRMVL.	
FK Column	72	Results	RESULT	TSRRRESULT	TSMPRMVL1IS_NUMBER	Number	12,0	Null	The foreign key to TSMPRMVL implements "One Permitted Value may be the Biological Voltinism for many biological taxon Results."	Key must pre-exist in TSMPRMVL.
FK Column	73	Results	RESULT	TSRRRESULT	TSMPRMVL1ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPRMVL.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	TSRSDP				An Organization-defined group of defaults for sample collection & handling descriptors such as preservation, container, procedure, and gear. Profiles are representative of a particular type of sampling.	
Column	2	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	TSRSDP_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	TSRSDP_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	ID_CODE	Char	10	Not Null	The organization-assigned code that identifies the Sampling Handling and Transport Default Profile. Must be unique within the Organization. Used as a shorthand or abbreviation to represent the Default Profile in batch data update runs.	
Column	5	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	NAME	Varchar2	30	Not Null	The Organization-defined long name for a Field Sampling Default Profile. Note: Must be unique within the Organization.	
Column	6	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	CONTAINER_TYPE_NM	Varchar2	32	Null	A default for the style and material of the container which is used to collect and transport a sample.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRSDP, and FIELD_NAME is CONTAINER_TYPE_NM.
Column	7	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	CONTAINER_COLOR	Varchar2	10	Null	Default description of the color of the container used to collect and transport the sample.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRSDP, and FIELD_NAME is CONTAINER_COLOR.
Column	8	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	CONTAINER_SIZE_MSR	Number	6,2	Null	A default for the measure of the size of the container for a Sample.	
Column	9	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	CONTAINER_SIZE_UN	Char	3	Null	The code that represents the default units in which the container size is expressed.	gal (Gallons); qt (Quarts); pt (Pints); oz (Fluid Ounces); l (Liters); ml (Milliliters); <Spaces>
Column	10	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	TEMP_PRESRV_TYPE	Varchar2	25	Null	A default for the name of the type of temperature based physical preservation.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRSDP, and FIELD_NAME is TEMP_PRESRV_TYPE.
Column	11	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	PRESRV_STRGE_PRCDR	Varchar2	1999	Null	Free text description providing additional information about the handling, transport, preservation, and storage of the sample.	
Column	12	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	13	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	14	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	TSMORGAN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMORGAN implements "One Organization may describe many Sample Handling, Transport, and Preservation Default Profiles."	Key must pre-exist in TSMORGAN.
FK Column	15	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	TSMPRMVL_IS_NUMBER	Number	12,0	Null	The foreign key to TSMPRMVL implements "One Permitted Value may be the Container Type for many Sample Default Profiles."	Key must pre-exist in TSMPRMVL.
FK Column	16	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	TSMPRMVL_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPRMVL.	
FK Column	17	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	TSMPRMVL_OIS_NUMBER	Number	12,0	Null	The foreign key to TSMPRMVL implements "One Permitted Value may be the Container Color for many Sample Default Profiles."	Key must pre-exist in TSMPRMVL.
FK Column	18	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	TSMPRMVL_OORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPRMVL.	
FK Column	19	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	TSMPRMVL_OIS_NUMBER	Number	12,0	Null	The foreign key to TSMPRMVL implements "One Permitted Value may be the Temperature Preservation Type for many Sample Default Profiles."	Key must pre-exist in TSMPRMVL.



FK Column	20	Field Activity	SAMPLING_DEFAULT_PROFILE	TSRSDP	TSMPRMVL1ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPRMVL.	
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Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	SAMPLE	TSRSMPL	TSRSMPL				Samples are quantities of material (e.g., water, sediment, biota) presumed to be representative of the environment. Samples may be collected in the field or created from other samples for the purpose of detailed analysis to identify constituents or pollutants.	
FK Column	2	Field Activity	SAMPLE	TSRSMPL	TSRFDCT_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRFDCT implements "One Field Activity may be a Sample."	Key must pre-exist in TSRFDCT.
FK Column	3	Field Activity	SAMPLE	TSRSMPL	TSRFDCT_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRFDCT.	
Column	4	Field Activity	SAMPLE	TSRSMPL	TOTAL_VOLUME_MSR	Number	7,2	Null	The total volume of material which comprises the Sample.	
Column	5	Field Activity	SAMPLE	TSRSMPL	TOTAL_VOLUME_UN_CD	Char	3	Null	The code that represents the units in which the total volume is expressed.	gal (Gallons); qt (Quarts); pt (Pints); oz (Fluid Ounces); l (Liters); ml (Milliliters); <Spaces>
Column	6	Field Activity	SAMPLE	TSRSMPL	TOTAL_WEIGHT_MSR	Number	7,2	Null	The total weight of material which comprises one sample.	
Column	7	Field Activity	SAMPLE	TSRSMPL	TOTAL_WEIGHT_UN_CD	Char	3	Null	The code that represents the units in which the total weight is expressed.	lb (Pounds); oz (Ounces); g (Grams); mg (Milligrams); <Spaces>
Column	8	Field Activity	SAMPLE	TSRSMPL	DATA_FILE_NAME_LOC	Varchar2	60	Null	Describes the location of the data file for samples where raw data are recorded in a continuous fashion in either digital or analog format, or video images.	
Column	9	Field Activity	SAMPLE	TSRSMPL	CONTAINER_TYPE_NM	Varchar2	32	Null	A default for the style and material of the container which is used to collect and transport a sample.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRSMPL, and FIELD_NAME is CONTAINER_TYPE_NM.
Column	10	Field Activity	SAMPLE	TSRSMPL	CONTAINER_COLOR	Varchar2	10	Null	Default description of the color of the container used to collect and transport the sample.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRSMPL, and FIELD_NAME is CONTAINER_COLOR.
Column	11	Field Activity	SAMPLE	TSRSMPL	CONTAINER_SIZE_MSR	Number	6,2	Null	A default for the measure of the size of the container for a Sample.	
Column	12	Field Activity	SAMPLE	TSRSMPL	CONTAINER_SIZE_UN	Char	3	Null	The code that represents the default units in which the container size is expressed.	gal (Gallons); qt (Quarts); pt (Pints); oz (Fluid Ounces); l (Liters); ml (Milliliters); <Spaces>
Column	13	Field Activity	SAMPLE	TSRSMPL	TEMP_PRESERVN_TYPE	Varchar2	25	Null	A default for the name of the type of temperature based physical preservation.	The domain of permitted values is defined in table TSMPRMVL, where TABLE_NAME=TSRSMPL, and FIELD_NAME is TEMP_PRESRV_TYPE.
Column	14	Field Activity	SAMPLE	TSRSMPL	PARENT_IND_CODE	Char	1	Null	The code that indicates if a created or composited sample has parents assigned to it.	Y (yes); N (no); <spaces>;
Column	15	Field Activity	SAMPLE	TSRSMPL	GEAR_DEPLOYMENT	Varchar2	1999	Null	User-defined text that provides further information about the deployment and/or use of Field Sampling Gear used to collect the Sample. Exceptions or deviations from the defined terms of the field sampling procedure are captured in this field.	
Column	16	Field Activity	SAMPLE	TSRSMPL	TRANSPORT_STORAGE	Varchar2	1999	Null	Free text description providing additional information about the handling, transport, and storage of the sample.	
Column	17	Field Activity	SAMPLE	TSRSMPL	PRESRV_STRGE_PRCDR	Varchar2	1999	Null	Free text description providing additional information about the preservation and storage of the sample.	
Column	18	Field Activity	SAMPLE	TSRSMPL	DURATION_TIME	Number	3	Null	Measure of the duration of the sampling activity, corrected as necessary to describe the true duration of an intermittent process if appropriate.	
Column	19	Field Activity	SAMPLE	TSRSMPL	DURATION_UNITS	Char	10	Null	The code that represents the units in which the sampling duration is expressed.	hours; minutes; days; months; <Spaces>;
Column	20	Field Activity	SAMPLE	TSRSMPL	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	

Column	21	Field Activity	SAMPLE	TSRSAMPLE	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	22	Field Activity	SAMPLE	TSRSAMPLE	TSMPRMVL_IS_NUMBER	Number	12,0	Null	The foreign key to TSMPRMVL implements "One Permitted Value may be the Container Type for many Samples.	Key must pre-exist in TSMPRMVL.
FK Column	23	Field Activity	SAMPLE	TSRSAMPLE	TSMPRMVL_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPRMVL.	
FK Column	24	Field Activity	SAMPLE	TSRSAMPLE	TSMPRMVL0IS_NUMBER	Number	12,0	Null	The foreign key to TSMPRMVL implements "One Permitted Value may be the Container Color for many Samples.	Key must pre-exist in TSMPRMVL.
FK Column	25	Field Activity	SAMPLE	TSRSAMPLE	TSMPRMVL0ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPRMVL.	
FK Column	26	Field Activity	SAMPLE	TSRSAMPLE	TSMPRMVL1IS_NUMBER	Number	12,0	Null	The foreign key to TSMPRMVL implements "One Permitted Value may be the Temperature Preservation Type for many Samples.	Key must pre-exist in TSMPRMVL.
FK Column	27	Field Activity	SAMPLE	TSRSAMPLE	TSMPRMVL1ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMPRMVL.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Station Visit	STATION_VISIT	TSRSTVST	TSRSTVST				A period of time spent at a Station during which measurements, observations, and/or sampling activities may take place. Note: Each Station Visit may be associated with one or more Trips. Each Trip may be associated with one or more Station Visits.	
Column	2	Station Visit	STATION_VISIT	TSRSTVST	TSRSTVST_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Station Visit	STATION_VISIT	TSRSTVST	TSRSTVST_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Station Visit	STATION_VISIT	TSRSTVST	ID_NUMBER	Char	3	Not Null	The Organization-assigned alphanumeric code that identifies a Station Visit. This number must be unique for the Trip and Station. Used as a shorthand or abbreviation to represent the Station Visit in batch data update runs.	
Column	5	Station Visit	STATION_VISIT	TSRSTVST	ARRIVAL_DATE	Date	8	Not Null	Date that the Station Visit commenced. Note: Defaults to Trip Start Date.	
Column	6	Station Visit	STATION_VISIT	TSRSTVST	ARRIVAL_TIME	Date	6	Null	Time at which the Station Visit commenced.	
Column	7	Station Visit	STATION_VISIT	TSRSTVST	ARRIVAL_TIME_ZONE	Char	3	Null	Time zone in which the Visit Arrival Time is reported. Any of the longitudinal divisions of the earth's surface in which a standard time is kept. Each zone observes a clock time one hour earlier than the zone immediately to the east.	EST (Eastern Standard Time); CST (Central Standard Time); MST (Mountain Standard Time); PST (Pacific Standard Time); EDT (Eastern Daylight Savings Time); CDT (Central Daylight Savings Time); MDT (Mountain Daylight Savings Time); PDT (Pacific Daylight Savings Time); AST (Atlantic Standard Time); ADT (Atlantic Daylight Savings Time); GMT (Greenwich Mean Time); HI (Hawaii standard time); AK (Alaskan standard time); GU (Guam standard time); <Spaces>
Column	8	Station Visit	STATION_VISIT	TSRSTVST	DEPARTURE_DATE	Date	8	Null	Date that the Station Visit is concluded.	
Column	9	Station Visit	STATION_VISIT	TSRSTVST	DEPARTURE_TIME	Date	6	Null	Time at which the Station Visit ended.	
Column	10	Station Visit	STATION_VISIT	TSRSTVST	DEPRTURE_TIME_ZONE	Char	3	Null	Time zone in which the Visit Departure Time is reported. Any of the longitudinal divisions of the earth's surface in which a standard time is kept. Each zone observes a clock time one hour earlier than the zone immediately to the east.	EST (Eastern Standard Time); CST (Central Standard Time); MST (Mountain Standard Time); PST (Pacific Standard Time); EDT (Eastern Daylight Savings Time); CDT (Central Daylight Savings Time); MDT (Mountain Daylight Savings Time); PDT (Pacific Daylight Savings Time); AST (Atlantic Standard Time); ADT (Atlantic Daylight Savings Time); GMT (Greenwich Mean Time); HI (Hawaii standard time); AK (Alaskan standard time); GU (Guam standard time); <Spaces>
Column	11	Station Visit	STATION_VISIT	TSRSTVST	COMMENT_TEXT	Long	4000	Null	Free text attribute where field notes may be recorded including notes about the condition of the Station itself.	
Column	12	Station Visit	STATION_VISIT	TSRSTVST	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	13	Station Visit	STATION_VISIT	TSRSTVST	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Column	14	Station Visit	STATION_VISIT	TSRSTVST	BLOB_TYPE	Char	3	Null	A station visit may be further described by a Binary Large Object, or BLOB. The BLOB may be a document or a graphic object. This field defines the type of BLOB which further defines this result. A foreign key in table TSMBLOB identifies the BLOB which is linked to the Station.	JPG; BMP; GIF; TXT; PDF; <Spaces>
Column	15	Station Visit	STATION_VISIT	TSRSTVST	BLOB_TITLE	Varchar2	60	Null	User-defined Title defining or describing the BLOB Content.	
FK Column	16	Station Visit	STATION_VISIT	TSRSTVST	TSRTRIP_IS_NUMBER	Number	12,0	Null	The foreign key to TSRTRIP implements "One Trip may include many Station Visits."	Key must pre-exist in TSRTRIP.
FK Column	17	Station Visit	STATION_VISIT	TSRSTVST	TSRTRIP_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSRTRIP.	
FK Column	18	Station Visit	STATION_VISIT	TSRSTVST	TSMSTATN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMSTATN implements "One Station may be visited many times."	Key must pre-exist in TSMSTATN.
FK Column	19	Station Visit	STATION_VISIT	TSRSTVST	TSMSTATN_ORG_ID	Char	8	Null	The TSMORGAN portion of the foreign key to TSMSTATN.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	TRAP_NET_OPERATION_DETAIL	TSRTNOD	TSRTNOD				A description of the manner in which the trap or net is set or deployed, and relevant environmental conditions during the time the sample was collected.	
FK Column	2	Field Activity	TRAP_NET_OPERATION_DETAIL	TSRTNOD	TSRFDAC_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRFDAC implements "One Field Activity may be described by one Trap/Net Operational Detail."	Key must pre-exist in TSRFDAC.
FK Column	3	Field Activity	TRAP_NET_OPERATION_DETAIL	TSRTNOD	TSRFDAC_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRFDAC.	
Column	4	Field Activity	TRAP_NET_OPERATION_DETAIL	TSRTNOD	SMPING_DURATN_MSR	Number	4,2	Not Null	The length of time the Trap or Net is considered to be operational (i.e., collecting)	
Column	5	Field Activity	TRAP_NET_OPERATION_DETAIL	TSRTNOD	SMPING_DRTN_UNT_CD	Char	10	Not Null	The code that represents the units in which the sampling duration is expressed.	hours; minutes; days; <spaces>;
Column	6	Field Activity	TRAP_NET_OPERATION_DETAIL	TSRTNOD	ORIENTN_TO_CURRENT	Char	15	Null	The name of the orientation of the equipment with respect to the water current.	Down Current; Into Current; Cross Current; <Spaces>;
Column	7	Field Activity	TRAP_NET_OPERATION_DETAIL	TSRTNOD	REL_CURRENT_DIR	Number	3	Null	The direction of water current movement relative to the heading of the trap/net. It is measured in degrees clockwise from the trap/net heading, with zero indicating a heading directly into the current. Recorded in degrees from 0-359; 0 is into the current, 90 is perpendicular to the current with the current running right to left, 180 is with the current and 270 is perpendicular to the current with the current running left to right.	Integer 0 to 359
Column	8	Field Activity	TRAP_NET_OPERATION_DETAIL	TSRTNOD	REL_WIND_DIR	Number	3	Null	The direction of wind movement relative to the heading of the trap/net. It is measured in degrees clockwise from the heading of the trap/net, with zero indicating a trap/net heading directly into the wind. Recorded in degrees from 0-359; 0 is into the wind, 90 is perpendicular to the wind with the wind blowing right to left, 180 is with the wind and 270 is perpendicular to the wind with the wind blowing left to right.	Integer 0 to 359
Column	9	Field Activity	TRAP_NET_OPERATION_DETAIL	TSRTNOD	COMMENT_TEXT	Varchar2	254	Null	User-defined text that provides further information about the Trap or Net Operation.	
Column	10	Field Activity	TRAP_NET_OPERATION_DETAIL	TSRTNOD	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	11	Field Activity	TRAP_NET_OPERATION_DETAIL	TSRTNOD	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Field Activity	TRAWL_OPERATION_DETAIL	TSRTOD	TSRTOD				A description of the manner in which the trawl or net is operated or deployed, and relevant environmental conditions during the time the sample was collected.	
FK Column	2	Field Activity	TRAWL_OPERATION_DETAIL	TSRTOD	TSRFDCT_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRFDCT implements "One Field Activity may be described by one Trawl Operational Detail."	Key must pre-exist in TSRFDCT.
FK Column	3	Field Activity	TRAWL_OPERATION_DETAIL	TSRTOD	TSRFDCT_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRFDCT.	
Column	4	Field Activity	TRAWL_OPERATION_DETAIL	TSRTOD	FISHED_DURATN_MSR	Number	4,2	Not Null	The length of time the Trawl is considered to be operational (i.e., collecting)	
Column	5	Field Activity	TRAWL_OPERATION_DETAIL	TSRTOD	FISHD_DURTN_UNT_CD	Char	10	Not Null	The code that represents the units in which the fished duration is expressed.	hours; minutes; <spaces>;
Column	6	Field Activity	TRAWL_OPERATION_DETAIL	TSRTOD	BOAT_SPEED_MSR	Number	3,1	Null	The relative speed, through the water, of the boat during Sample collection.	
Column	7	Field Activity	TRAWL_OPERATION_DETAIL	TSRTOD	BOAT_SPEED_UN_CD	Char	10	Null	The code that represents the units in which the boat speed is expressed.	knots; mph; <Spaces>;
Column	8	Field Activity	TRAWL_OPERATION_DETAIL	TSRTOD	FISHED_DISTANCE	Number	5,2	Null	The distance over which the trawl was operated for Sample collection.	
Column	9	Field Activity	TRAWL_OPERATION_DETAIL	TSRTOD	FISHED_DISTANCE_UN	Char	3	Null	The code that represents the units in which the fished distance is expressed.	ft (Feet); m (Meters); mi (Miles); km (Kilometers); nmi (Nautical Miles); <Spaces>
Column	10	Field Activity	TRAWL_OPERATION_DETAIL	TSRTOD	REL_CURRENT_DIR	Number	3	Null	The direction of water current movement relative to the bow heading of the trawling boat. It is measured in degrees clockwise from the bow heading, with zero indicating a bow heading directly into the current. Recorded in degrees from 0-359; 0 is into the current, 90 is perpendicular to the current with the current running right to left, 180 is with the current and 270 is perpendicular to the current with the current running left to right.	Integer 0 to 359
Column	11	Field Activity	TRAWL_OPERATION_DETAIL	TSRTOD	REL_WIND_DIR	Number	3	Null	The direction of wind movement relative to the bow heading of the trawling boat. It is measured in degrees clockwise from the bow heading, with zero indicating a bow heading directly into the wind. Recorded in degrees from 0-359; 0 is into the wind, 90 is perpendicular to the wind with the wind blowing right to left, 180 is with the wind and 270 is perpendicular to the wind with the wind blowing left to right.	Integer 0 to 359
Column	12	Field Activity	TRAWL_OPERATION_DETAIL	TSRTOD	COMMENT_TEXT	Varchar2	254	Null	User-defined text that provides further information about the Trawl Operation.	
Column	13	Field Activity	TRAWL_OPERATION_DETAIL	TSRTOD	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	14	Field Activity	TRAWL_OPERATION_DETAIL	TSRTOD	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Trip	TRIP_PROJECT_ASSIGNMENT	TSRTPA	TSRTPA				Defines the association between a Trip and the Project(s) it supports.	
FK Column	2	Trip	TRIP_PROJECT_ASSIGNMENT	TSRTPA	TSRTRIP_IS_NUMBER	Number	12,0	Not Null	The foreign key to Trip implements "One Trip may support many Projects."	Key must pre-exist in TSRTRIP.
FK Column	3	Trip	TRIP_PROJECT_ASSIGNMENT	TSRTPA	TSRTRIP_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRTRIP.	
FK Column	4	Trip	TRIP_PROJECT_ASSIGNMENT	TSRTPA	TSMPROJ_IS_NUMBER	Number	12,0	Not Null	The foreign key to Project implements "One Project may be supported by many Trips."	Key must pre-exist in TSRPROJ.
FK Column	5	Trip	TRIP_PROJECT_ASSIGNMENT	TSRTPA	TSMPROJ_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRPROJ.	
Column	6	Trip	TRIP_PROJECT_ASSIGNMENT	TSRTPA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Trip	TRIP_PROJECT_ASSIGNMENT	TSRTPA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	



Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Trip	TRIP	TSRTRIP	TSRTRIP				An expedition or outing undertaken for the purpose of monitoring environmental quality at one or more sites (stations).	
Column	2	Trip	TRIP	TSRTRIP	TSRTRIP_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Trip	TRIP	TSRTRIP	TSRTRIP_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Trip	TRIP	TSRTRIP	ID_CODE	Char	15	Not Null	The Organization-assigned alphanumeric code that identifies a Trip. This number must be unique within the Organization. Used as a shorthand or abbreviation to represent the Trip in batch data update runs.	
Column	5	Trip	TRIP	TSRTRIP	NAME	Varchar2	60	Null	The long name assigned by the Organization to the Trip.	
Column	6	Trip	TRIP	TSRTRIP	START_DATE	Date	8	Not Null	The date on which the Trip begins. Note: This value will be used as the default for Station Visit Arrival Date.	
Column	7	Trip	TRIP	TSRTRIP	START_TIME	Date	6	Null	Time at which the Trip commenced.	
Column	8	Trip	TRIP	TSRTRIP	START_TIME_ZONE	Char	3	Null	Time zone in which the Trip Start Time is reported. Any of the longitudinal divisions of the earth's surface in which a standard time is kept. Each zone observes a clock time one hour earlier than the zone immediately to the east.	EST (Eastern Standard Time); CST (Central Standard Time); MST (Mountain Standard Time); PST (Pacific Standard Time); EDT (Eastern Daylight Savings Time); CDT (Central Daylight Savings Time); MDT (Mountain Daylight Savings Time); PDT (Pacific Daylight Savings Time); AST (Atlantic Standard Time); ADT (Atlantic Daylight Savings Time); GMT (Greenwich Mean Time); HI (Hawaii standard time); AK (Alaskan standard time); GU (Guam standard time); <Spaces>
Column	9	Trip	TRIP	TSRTRIP	END_DATE	Date	8	Null	Date that the Trip is concluded.	
Column	10	Trip	TRIP	TSRTRIP	END_TIME	Date	6	Null	Time at which the Trip ended.	
Column	11	Trip	TRIP	TSRTRIP	END_TIME_ZONE	Char	3	Null	Time zone in which the Trip End Time is reported. Any of the longitudinal divisions of the earth's surface in which a standard time is kept. Each zone observes a clock time one hour earlier than the zone immediately to the east.	EST (Eastern Standard Time); CST (Central Standard Time); MST (Mountain Standard Time); PST (Pacific Standard Time); EDT (Eastern Daylight Savings Time); CDT (Central Daylight Savings Time); MDT (Mountain Daylight Savings Time); PDT (Pacific Daylight Savings Time); AST (Atlantic Standard Time); ADT (Atlantic Daylight Savings Time); GMT (Greenwich Mean Time); HI (Hawaii standard time); AK (Alaskan standard time); GU (Guam standard time); <Spaces>
Column	12	Trip	TRIP	TSRTRIP	LEADER_NAME	Varchar2	30	Null	The name of the individual who has primary responsibility in the field for the conduct of the Trip. For example, Crew Chief or Vessel Captain.	
Column	13	Trip	TRIP	TSRTRIP	VEHICLE_SHIP_NAME	Varchar2	30	Null	The name of the vehicle, vessel, or ship used to convey people and equipment to the sites (Stations) being monitored.	
Column	14	Trip	TRIP	TSRTRIP	TRIP_PLAN_TEXT	Varchar2	1999	Null	A brief summary of the Trip Plan. May indicate where the complete Trip Plan is located.	
Column	15	Trip	TRIP	TSRTRIP	COMMENT_TEXT	Varchar2	254	Null	User-defined text that provides further information about the Trip.	
Column	16	Trip	TRIP	TSRTRIP	SINGLE_PROJ_IND	Char	1	Not Null	A flag indicating whether or not the Trip is taken in support of a single Project. When a Trip is taken in support of only one Project, all Field Activities performed during that trip are assigned to that project automatically.	Y (yes, this is a single-project trip); N (no, multiple projects are being supported.)

Column	17	Trip	TRIP	TSRTRIP	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	18	Trip	TRIP	TSRTRIP	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	
FK Column	19	Trip	TRIP	TSRTRIP	TSMORGAN_IS_NUMBER	Number	12,0	Null	The foreign key to TSMORGAN implements "One Organization can conduct many Trips."	Key must pre-exist in TSMORGAN.

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Trip	TRIP_STATION_ASSIGNMENT	TSRTSA	TSRTSA				Defines the association between a Trip and the Station(s) it may visit.	
FK Column	2	Trip	TRIP_STATION_ASSIGNMENT	TSRTSA	TSRTRIP_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSRTRIP implements "One Trip may undertake to visit many Stations."	Key must pre-exist in TSRTRIP.
FK Column	3	Trip	TRIP_STATION_ASSIGNMENT	TSRTSA	TSRTRIP_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSRTRIP.	
FK Column	4	Trip	TRIP_STATION_ASSIGNMENT	TSRTSA	TSMSTATN_IS_NUMBER	Number	12,0	Not Null	The foreign key to TSMSTATN implements "One Station may be planned for visits during many Trips."	Key must pre-exist in TSMSTATN.
FK Column	5	Trip	TRIP_STATION_ASSIGNMENT	TSRTSA	TSMSTATN_ORG_ID	Char	8	Not Null	The TSMORGAN portion of the foreign key to TSMSTATN.	
Column	6	Trip	TRIP_STATION_ASSIGNMENT	TSRTSA	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	7	Trip	TRIP_STATION_ASSIGNMENT	TSRTSA	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	

Type	Seq	Subject Area	Entity Name	Table	Field/Column Name	Format	Length	Optionality	Definition	Domain/Permitted Values
Table	1	Domain Reference	UNIT_OF_MEASURE	TSRUOM	TSRUOM				This table defines the domain of valid values for Units of Measure.	
Column	2	Domain Reference	UNIT_OF_MEASURE	TSRUOM	TSRUOM_IS_NUMBER	Number	12,0	Not Null	A system-generated value used to uniquely identify an occurrence of this table.	Integer non-intelligent key.
Column	3	Domain Reference	UNIT_OF_MEASURE	TSRUOM	TSRUOM_ORG_ID	Char	8	Not Null	The user-defined code that uniquely identifies the Organization to which each occurrence of this table applies. This identifying attribute has been added to this table for purposes of application security. Security is driven by user access to a given Organization(s).	As registered by central STORET and stored in table TSMORGAN.
Column	4	Domain Reference	UNIT_OF_MEASURE	TSRUOM	UOM_TYPE	Char	5	Not Null	The category that represents the broad class of a related set of units. Examples: Volume, Concentration, Mass, Area, Velocity, Flow, Length/width/height, Temperature, Energy, Work/power	SUBST (Substance. Units of mass, weight, and concentration); PROD (Productivity. Mass per unit of substance); LEN (Length); TAX (Taxonomic units. Counts, MPN, percents); TIME (Time. Hours, minutes, fortnights, etc); MISC (Miscellaneous. Items not covered elsewhere. Among other things, pressure, electrical, light etc); FLOW (Flow units. Volume rates); VEL (Velocities); VOL (Volume measures); AREA (Area Measures. Sq. meters, hectares, etc); TEMP (Temperature measures); NONE (Characteristic does not have units, e.g. text, PV);
Column	5	Domain Reference	UNIT_OF_MEASURE	TSRUOM	SHORT_FORM_NAME	Char	10	Not Null	The abbreviation for the name of the unit of measure.	
Column	6	Domain Reference	UNIT_OF_MEASURE	TSRUOM	DESCRIPTION_TEXT	Varchar2	50	Not Null	The full name of the unit of measure.	
Column	7	Domain Reference	UNIT_OF_MEASURE	TSRUOM	D_USERID_CODE	Char	8	Not Null	A code that identifies the specific person making changes to the data.	
Column	8	Domain Reference	UNIT_OF_MEASURE	TSRUOM	D_LAST_UPDATE_TS	Date	20	Not Null	A system-generated value that represents the calendar date and time on which this information was posted to the data base or when a subsequent modification was made.	