

WATER TABLES:

Table Name: **WA_POINT**

Table Description: The WA_POINT table is used to store the attributes for hydrographic point features. The seventeen attributes are intended to satisfy NSTDB requirements

Field Name	Field Name Description	Field Type	Field Size	Field Content
FEAT_CODE	Feature Code	Char	12	The NSTDB feature code is a six to twelve character attribute assigned to topographic features. It identifies features by class and subclass. (See NSTDB Feature Code lookup table for options)
PT_CLASS	Point Class	Small Int		A classification of the point Feature Codes into subtypes. 1 <i>Falls</i> 2 <i>Dams</i> 3 <i>Rapids</i> 4 <i>Rocks</i>
NAMEID_1	CGNDB_KEY	Char	5	The designated key recognized by the Geographic Names Board of Canada (GNBC) for Toponymy
NAME_1	CGNDB_NAME	Char	50	The designated name recognized by the Geographic Names Board of Canada (GNBC) for Toponymy

Table Name: **WA_JUNC**

Table Description: The WA_JUNC table is used to store the attributes for hydrographic junction point features. The fifteen attributes are intended to satisfy NSTDB requirements.

Field Name	Field Name Description	Field Type	Field Size	Field Content
FEAT_CODE	Feature Code	Char	12	The NSTDB feature code is a six to twelve character attribute assigned to topographic features. It identifies features by class and subclass. (See NSTDB Feature Code lookup table for options) Junction FC may be populated manually by the contractor.

Field Name	Field Name Description	Field Type	Field Size	Field Content
SINK_FLAG	Sink Flag	Small int		<p>A flag used to help determine the water flow direction.</p> <p>0 <i>None</i> Not a sink / outlet</p> <p>1 <i>Fresh Water</i> A point of flow discharge / outlet on lake or reservoir</p> <p>2 <i>Salt Water</i> A point of flow discharge / outlet on coastline</p>

Table Name: WA_LINE

Table Description: The WA_LINE table is used to store the attributes for single line hydrographic features. The forty one attributes collected here are intended to satisfy NSTDB requirements.

Field Name	Field Name Description	Field Type	Field Size	Field Content
FEAT_CODE	Feature Code	Char	12	The NSTDB feature code is a six to twelve character attribute assigned to topographic features. It identifies features by class and subclass. (See NSTDB Feature Code lookup table for options)
LINE_CLASS	Line Class	Small int		<p>A classification of the line Feature Codes into subtypes.</p> <p>0 <i>None</i> Not assigned</p> <p>1 <i>Flowline</i> A line tracing the path of flow through a stream, river, or water body (e.g., single line rivers and skeleton/spines)</p> <p>2 <i>Shoreline/Bank</i> Includes the interface between land and water for an inland water body (e.g., lakes, double line rivers, etc.)</p>

Field Name	Field Name Description	Field Type	Field Size	Field Content
				<p>3 <i>Coastline</i> Includes the interface between land and water for a coastal water body (e.g., WACO20)</p> <p>4 <i>Obstacle_1</i> Includes most linear features which may obstruct the passage or flow of water (e.g., dams, wharves, etc.)</p> <p>5 <i>Obstacle_2</i> Includes linear rapid features which may obstruct the passage or flow of water</p> <p>6 <i>Delimiter</i> A virtual line which separates water body types (e.g., between coastal river and river) and / or toponymic objects</p> <p>7 <i>Virtual Neatline</i> A virtual line which occurs between revision blocks or along a 10K neatline where data is not edge matched</p>
FLOWDIR	Flow Direction	Small int		<p>An indicator which identifies which way the water flow is directed along a line segment.</p> <p>0 <i>None</i> Not assigned</p> <p>1 <i>With</i> The water flow direction is the same as direction of line digitization</p> <p>2 <i>Against</i> The water flow direction is opposite to the direction of line digitization</p> <p>3 <i>Indeterminate</i> The water flow direction cannot be determined to be the same or opposite to the direction of line digitization</p>
LEVELPRIOR	Level Priority	Small int		<p>A classification of Network Flow paths.</p> <p>0 <i>None</i> Not assigned</p>

Field Name	Field Name Description	Field Type	Field Size	Field Content
				1 <i>Primary</i> Main path 2 <i>Secondary</i> Alternate path
LAKEID_(1-2)	CGNDB KEYS (lake features)	Char	5	The designated lake keys recognized by the Geographic Names Board of Canada (GNBC) for Toponomy
LAKENAME_(1-2)	CGNDB NAMES (lake features)	Char	100	The designated lake names recognized by the Geographic Names Board of Canada (GNBC) for Toponomy
RIVID_(1-2)	CGNDB KEYS (river features)	Char	5	The designated river keys recognized by the Geographic Names Board of Canada (GNBC) for Toponomy
RIVNAME_(1-2)	CGNDB NAMES (River features)	Char	100	The designated river names recognized by the Geographic Names Board of Canada (GNBC) for Toponomy
MISCID_(1-7)	CGNDB KEYS (non-river/lake features)	Char	5	The designated non-river/lake keys recognized by the Geographic Names Board of Canada (GNBC) for Toponomy
MISCNAME_(1-7)	CGNDB NAMES (river features)	Char	100	The designated non-river/lake names recognized by the Geographic Names Board of Canada (GNBC) for Toponomy

Table Name: WA_POLY

Table Description: The WA_POLY table is used to store the attributes for hydrographic polygon features. The nineteen attributes are intended to satisfy NSTDB requirements.

Field Name	Field Name Description	Field Type	Field Size	Field Content
FEAT_CODE	Feature Code	Char	12	The NSTDB feature code is a six to twelve character attribute assigned to topographic features. It identifies features by class and subclass. (See NSTDB Feature Code lookup table for options)
POLY_CLASS	Polygon Class	Small Int		A classification of the polygon Feature Codes into subtypes.

Field Name	Field Name Description	Field Type	Field Size	Field Content
				0 <i>None</i> Not assigned 1 <i>Inland Water Body</i> An area of inland water represented by a polygon (e.g., lake, reservoir, etc) 2 <i>Coastal Water Body</i> An area of coastal water represented by a polygon. The polygon excludes land. 3 <i>Obstacle_1</i> Polygon feature which obstructs the passage or flow of water (e.g., breakwater, wharf, etc.). Excludes dams. 4 <i>Obstacle_2</i> A polygon feature representing a dam which obstructs the passage or flow of water. 5 <i>Swamp</i> A polygon feature representing a swamp.
NAMEID_1	CGNDB_KEY	CHAR	5	The designated key recognized by the Geographic Names Board of Canada (GNBC) for Toponymy
NAME_1	CGNDB_NAME	CHAR	100	The designated name recognized by the Geographic Names Board of Canada (GNBC) for Toponymy

Table Name: LA_POLY

Table Description: The LA_POLY table is used to store the attributes for hydrographic polygon features. The nineteen attributes are intended to satisfy NSTDB requirements.

Field Name	Field Name Description	Field Type	Field Size	Field Content
FEAT_CODE	Feature Code	Char	12	The NSTDB feature code is a six to twelve character attribute assigned to topographic features. It identifies features by class and subclass. (See NSTDB Feature Code lookup table for options)
POLY_CLASS	Polygon Class	Small Int		A classification of the polygon Feature Codes into subtypes. 0 <i>None</i> Not assigned

Field Name	Field Name Description	Field Type	Field Size	Field Content
				<p>1 <i>Inland Water Body</i> An area of inland water represented by a polygon (e.g., lake, reservoir, etc)</p> <p>2 <i>Coastal Water Body</i> An area of coastal water represented by a polygon. The polygon excludes land.</p> <p>3 <i>Obstacle_1</i> Polygon feature which obstructs the passage or flow of water (e.g., breakwater, wharf, etc.). Excludes dams.</p> <p>4 <i>Obstacle_2</i> A polygon feature representing a dam which obstructs the passage or flow of water.</p> <p>5 <i>Swamp</i> A polygon feature representing a swamp.</p>
NAMEID_1	CGNDB_KEY	CHAR	5	The designated key recognized by the Geographic Names Board of Canada (GNBC) for Toponomy
NAME_1	CGNDB_NAME	CHAR	100	The designated name recognized by the Geographic Names Board of Canada (GNBC) for Toponomy

Table Name: WA_CENT

Table Description: The WA_CENT table is used to store the attributes for hydrographic centroid features. The fourteen attributes are intended to satisfy NSTDB requirements

Field Name	Field Name Description	Field Type	Field Size	Field Content
FEAT_CODE	Feature Code	Char	12	The NSTDB feature code is a six to twelve character attribute assigned to topographic features. It identifies features by class and subclass. (See NSTDB Feature Code lookup table for options)

BASIN TABLES:

The Basin Tables provide information about the sub-sub basin delineations (administrative boundaries). The database schema has been designed for the NSGC Oracle Data Warehouse.

The Basin points and lines are revised (as necessary) during the NSHN Production Workflow Process. Basin polygons are re-generated based on the revised lines and points. While not traditionally considered part of the NSTDB, the Basin Delineations are required for the NSHN QC Process as well as for providing the NSHN data in "Network Ready" management units. Therefore, they are kept as separate layers from the water tables. The attributes with an asterisk are manually manipulated during the NSHN QC/Production workflow process. All others are auto-updated or generated.

Table Name: **BA_POINT**

Table Description: The BA_POINT table is used to store the attributes for basin point features (Centroids). The six attributes are intended to satisfy NSTDB requirements.

Field Name	Field Name Description	Field Type	Field Size	Field Content
FEAT_CODE	Feature Code	Char	12	The NSTDB feature code is a six to twelve character attribute assigned to topographic features. It identifies features by class and subclass. (See NSTDB Feature Code lookup table for options)
BASIN_NAME	Sub-Sub-Basin Name	Char	7	The name of the sub-sub basin administrative boundary. These basins represent working units in which geometric networks can be generated. The boundary extent can change slightly during revision mapping. These boundaries are derived originally from DOE Primary Watershed sub-sub basins. (e.g., 01FA000)

Table Name: BA_LINE

Table Description: The BA_LINE table is used to store the attributes for basin line features. The five attributes are intended to satisfy NSTDB requirements.

Field Name	Field Name Description	Field Type	Field Size	Field Content
FEAT_CODE	Feature Code	Char	12	The NSTDB feature code is a six to twelve character attribute assigned to topographic features. It identifies features by class and subclass. (See NSTDB Feature Code lookup table for options)

Table Name: BA_POLY

Table Description: The BA_POLY table is used to store the attributes for basin polygon features. The seven attributes are intended to satisfy NSTDB requirements.

Field Name	Field Name Description	Field Type	Field Size	Field Content
FEAT_CODE	Feature Code	Char	12	The NSTDB feature code is a six to twelve character attribute assigned to topographic features. It identifies features by class and subclass. (See NSTDB Feature Code lookup table for options)
BASIN_NAME	Sub-Sub-Basin Name	Char	7	<p>The name of the sub-sub basin administrative boundary. These basins represent working units in which geometric networks can be generated. The boundary extent can change slightly during revision mapping. These boundaries are derived originally from DOE Primary Watershed sub-sub basins.</p> <p>This attribute is auto-populated during polygon generation by acquiring the attribute from the basin centroid feature.</p>