National Hydrography Dataset (NHD) Model (v1.06)

USGS science for a changing world

June 12 , 2007

One of eight themes of *The National Map*

The Catalog View

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Feature Detail

Table **NHDFCode**

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length
OBJECTID	Object ID						
FCode	Long integer	No			0		255
Description	String	Yes					32
CanalDitchType	String	Yes					32
ConstructionMaterial	String	Yes					32
HydrographicCategory	String	Yes					32
InundationControlStatus	String	Yes					32
OperationalStatus	String	Yes					32
PipelineType	String	Yes					32
PositionalAccuracy	String	Yes					32
RelationshipToSurface	String	Yes					32
ReservoirType	String	Yes					32
Stage	String	Yes					32
SpecialUseZoneType	String	Yes					32

Table **NHDFlow**

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length
OBJECTID	Object ID						
FromComID	Long integer	No			0		
ToComID	Long integer	No			0		
DeltaLevel	Long integer	Yes			0		
Direction	Long integer	Yes		FlowDirection	0		
ToComDMeas	Double	Yes			0	0	

Table **NHDFlowlineVAA**

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length
OBJECTID	Object ID						
ComID	Long integer	No			0		
FDate	Date	No			0	0	8
StreamLevel	Long integer	Yes			0		
StreamOrder	Long integer	Yes			0		
FromNode	Double	Yes			0	0	
ToNode	Double	Yes			0	0	
HydroSeq	Double	Yes			0	0	
LevelPathID	Double	Yes			0	0	
PathLengthKM	Double	Yes			0	0	
TerminalPathID	Double	Yes			0	0	
ArbolateSumKM	Double	Yes			0	0	
Divergence Flag	Long integer	Yes			0		
StartFlag	Long integer	Yes			0		
TerminalFlag	Long integer	Yes			0		
DnLevel	Long integer	Yes			0		
ThinnerCode	Long integer	Yes			0		
UpLevelPathId	Double	Yes			0	0	
UpHydroSeq	Double	Yes			0	0	
UpMainHydroSeq	Double	Yes			0	0	
DnLevelPathID	Double	Yes			0	0	
DnMainHydroSeq	Double	Yes			0	0	
DnDrainCount	Long integer	Yes			0		

Table **NHDVerticalRelationship**

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length
OBJECTID	Object ID						
ComID	Long integer	No			0		
AboveComID	Long integer	No			0		
BelowComID	Long integer	No			0		

Table **NHDProcessingParameters**

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length
OBJECTID	Object ID						
ParameterName	String	No					24
ParameterValue	String	Yes					100

Table **NHDStatus**

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length
OBJECTID	Object ID						
ID	Long integer	No			0		
Status	Long integer	No		Status	0		

Table **NHDReachCode_ComID**

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length
OBJECTID	Object ID						
ComID	Long integer	No			0		
ReachCode	String	No					14
ReachOfDate	Date	Yes			0	0	8
Resolution	Long integer	No		Resolution	0		
GNIS_ID	String	Yes					10
GNIS_Name	String	Yes					100

Table **NHDReachCrossReference**

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length
OBJECTID	Object ID						
OldReachCode	String	Yes					17
OldReachDate	Date	Yes			0	0	8
NewReachCode	String	Yes					17
NewReachDate	Date	Yes			0	0	8
OldUPMI	String	Yes					5
NewUPMI	String	Yes					5
ChangeCode	String	Yes		ChangeCode Domain			4
Process	String	Yes		Process Domain			8
ReachFixVersion	String	Yes		ReachFixVersion Domain			10
OldHUCode	String	Yes					8
NewHUCode	String	Yes					8

Attribute Tables

Processing

Parameters used for processing data.

NHDStatus is used to track data changes for transaction uploads to the central repository.

Table used to maintain links for backward compatibility with FOD-based systems

Processing Domains

Coded value domain **ChangeCode Domain**

Code	Description
11	11 Old reach to new reach
1P	1P Old reach to part of new reach
P1	P1 Part of old reach to new reach
A	A Add new reach
D	D Delete old reach
PP	PP (Historic) Part of old reach to part of new reach
1M	1M (Historic) Old reach split to multiple new reaches
M1	M1 (Historic) Multiple old reaches merged to single new reach

Coded value domain **ReachFixVersion Domain**

Code	Description
M2002.00000	M2002.00000 GEO Medium Resolution
H2002.00000	H2002.00000 GEO High Resolution
L2002.00000	L2002.00000 GEO Local Resolution
TBD	TBD
M2001.00000	M2001.00000 (Historic) FOD Medium Resolution
H2001.00000	H2001.00000 (Historic) FOD High Resolution
L2001.00000	L2001.00000 (Historic) FOD Low Resolution
M2002.00000	M2002.00000 (Historic) PlusFOD

Coded value domain **Process Domain**

Code	Description
AVEDIT	AVEDIT
GDEDIT	GDEDIT
100_24	100_24
24_hr	24_hr
AKFOD	AKFOD (Historic)
ARCUPD	ARCUPD (Historic)
FODDDB	FODDDB (Historic)
FTEDIT	FTEDIT (Historic)
FTFLD	FTFLD (Historic)
NHDFIX	NHDFIX (Historic)
NHDWB	NHDWB (Historic)
PNWNHD	PNWNHD (Historic)
RFDBL	RFDBL (Historic)

Implicit Associations Between NHD Feature/Object Classes

Table 1	Attribute 1	Relationship	Table 2	Attribute 2
NHDArea	FCode	1-1	NHDFCode	FCode
NHDFlow	ComID	1-0/m	NHDFlow	FromComID
NHDFlowline	ComID	1-0/m	NHDFlow	ToComID
NHDFlowline	ComID	1-1	NHDFlowlineVAA	ComID
NHDFlowline	ComID	1-0/m	NHDVerticalRelationship	AboveComID
NHDFlowline	ComID	1-0/m	NHDVerticalRelationship	BelowComID
NHDFlowline	FCode	1-1	NHDFCode	FCode
NHDFlowline	ReachCode	0/m-0/1	NHDReachCode_ComID	ReachCode
NHDFlowline	WBAreaComID	0/m-0/1	NHDArea	ComID
NHDFlowline	WBAreaComID	0/m-0/1	NHDWaterbody	ComID
NHDLine	FCode	1-1	NHDFCode	FCode
NHDLineEventFC	ReachCode	0/m-1	NHDReachCode_ComID	ReachCode
NHDPoint	FCode	1-1	NHDFCode	FCode
NHDPoint	ReachCode	0/1-0/1	NHDReachCode_ComID	ReachCode
NHDPointEventFC	FeatureComID	0/1-0/1	NHDArea	ComID
NHDPointEventFC	FeatureComID	0/1-0/1	NHDLine	ComID
NHDPointEventFC	FeatureComID	0/1-0/1	NHDPoint	ComID
NHDPointEventFC	ReachCode	0/m-1	NHDReachCode_ComID	ReachCode
NHDWaterbody	FCode	1-1	NHDFCode	FCode
NHDWaterbody	ReachCode	0/m-0/1	NHDReachCode_ComID	ReachCode
NHDReachCode_ComID	ReachCode	0/1-0/m	NHDReachCrossReference	NewReachCode

Poster based on the National Hydrography Dataset (NHD) Geodatamodel: v1.06 06_12_2007
For more information on NHD, please refer to http://nhd.usgs.gov/

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FEATURE CLASSES

Simple feature class **NHDPoint**

Geometry: Point; Contains M values: No; Contains Z values: Yes

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length
OBJECTID	Object ID						
Shape	Geometry	Yes					
ComID	Long integer	No	0		0		
FDate	Date	No			0	0	8
Resolution	Long integer	No		Resolution	0		
GNIS_ID	String	Yes					10
GNIS_Name	String	Yes					100
ReachCode	String	Yes					14
FType	Long integer	No	458		0		
FCode	Long integer	Yes	45800		0		

Contains points representing NHD hydrographic landmark features.

Subtypes of NHDPoint

Subtype field: FType; Default subtype: 458

Subtype Code	Subtype Description
343	DamWeir
367	Gaging Station
369	Gate
398	Lock Chamber
431	Rapids
436	Reservoir
441	Rock
450	SinkRise
485	Water IntakeOutflow
487	Waterfall
488	Well

List of defined default values and domains for subtypes in this class

Field name	Default value	Domain
Resolution		Resolution
FCode	34305	DamWeir FCode
Resolution		Resolution
FCode	36700	Gaging Station FCode
Resolution		Resolution
FCode	36900	Gate FCode
Resolution		Resolution
FCode	39800	Lock Chamber FCode
Resolution		Resolution
FCode	43100	Rapids FCode
Resolution		Resolution
FCode	43600	Reservoir FCode
Resolution		Resolution
FCode	44101	Rock FCode
Resolution		Resolution
FCode	45000	SinkRise FCode
Resolution		Resolution
FCode	45800	SpringSeep FCode
Resolution		Resolution
FCode	46500	Water IntakeOutflow FCode
Resolution		Resolution
FCode	48700	Waterfall FCode
Resolution		Resolution
FCode	48800	Well FCode

Definitions of features

Barrier constructed to control the flow, or raise the level, of water.

Structure used to measure the characteristics of hydrographic features.

Structure that may be swung, drawn, or lowered, to block an entrance or passageway.

Enclosure on a waterway used to raise or lower the vessels as they pass from one level to another.

Area of swift current in a stream or river characterized by standing waves, breakers, or rocks.

Constructed basin formed to contain water or other liquids.

Concentrated mass of stony material.

Place at which a stream disappears underground or reappears at the surface in a karst area.

Place where water issues from the ground.

Structure through which water enters or exits a conduit.

Vertical or near vertical descent of water over a step or drop in the bed of a river.

Pit or hole, dug or bored into the earth for the extraction of water or other fluids, or gases.

Simple feature class **NHDArea**

Geometry: Polygon; Contains M values: No; Contains Z values: Yes

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length
OBJECTID	Object ID						
Shape	Geometry	Yes					
ComID	Long integer	No	0		0		
FDate	Date	No			0	0	8
Resolution	Long integer	No		Resolution	0		
GNIS_ID	String	Yes					10
GNIS_Name	String	Yes					65
AreaSqKm	Double	Yes			0	0	8
Elevation	Double	Yes		ElevationRange	0	0	
FType	Long integer	No	460		0		
FCode	Long integer	Yes	46006		0		
Shape_Length	Double	Yes			0	0	
Shape_Area	Double	Yes			0	0	

Contains regions representing areal NHD hydrographic landmark features.

Subtypes of NHDArea

Subtype field: FType; Default subtype: 460

Subtype Code	Subtype Description
537	Area of Complex Channels
307	Area to be Submerged
312	Bayliner
318	Bridge
336	CanalDitch
343	DamWeir
362	Flume
364	Foreshore
373	Hazard Zone
403	Inundation Area
568	Levee
398	Lock Chamber
431	Rapids
445	SeaOcean
454	Special Use Zone
455	Spillway
460	StreamRiver
461	Submerged Stream
484	Wash
485	Water IntakeOutflow

List of defined default values and domains for subtypes in this class

Field name	Default value	Domain
Resolution		Resolution
Elevation		ElevationRange
FCode	53700	Area of Complex Channels FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	30700	Area to be Submerged FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	31200	Bayliner FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	31800	Bridge FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	33600	CanalDitch FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	34305	DamWeir FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	36200	Flume FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	36400	Foreshore FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	37300	Hazard Zone FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	40308	Inundation Area FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	56600	Levee FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	39800	Lock Chamber FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	43100	Rapids FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	44500	SeaOcean FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	45401	Special Use Zone FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	45500	Spillway FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	46006	StreamRiver FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	46100	Submerged Stream FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	48400	Wash FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	48500	Water IntakeOutflow FCode

Definitions of features

Area where a stream of river flows in its ultimate network of interlocking channels.

Known extent of the intended tank that will be created behind a dam under construction.

Water area that is an opening of the seashore into the land, or other estuary, lake, or river into its shore.

Structure spanning and providing passage over a waterway, railroad, or other obstacle.

Artificial open waterway constructed to transport water, to irrigate or drain land, to connect two or more bodies of water, or to serve as a waterway for watercraft.

Basin constructed to control the flow or reset the level of water.

Open, enclosed, artificial channel constructed of wood, metal, or concrete, generally elevated.

Part of a seashore between high-water and low-water marks.

Area identified as a danger to maritime navigation.

Area lit and subject to flooding.

A natural or man-made embankment along the edge of a stream/river, certainment, or waterway, that protects the surrounding land from flooding.

Area of swift current in a stream or river, characterized by standing waves or by boulders or rocks.

Small body of water that covers much of the earth.

Area where distinctive types of maritime activities occur.

Constructed passage for surface water to run over or around a dam.

Body of flowing water.

Old river course indicated by an impounded water body.

Circular dry breach of a stream bed that contains water only during or after a flood, remaining in heavy rainfall.

Structure through which water flows or exits a conduit.

Simple feature class **NHDWaterbody**

Geometry: Polygon; Contains M values: No; Contains Z values: Yes

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length
OBJECTID	Object ID						
Shape	Geometry	Yes					
ComID	Long integer	No	0		0		
FDate	Date	No			0	0	8
Resolution	Long integer	No		Resolution	0		
GNIS_ID	String	Yes					10
GNIS_Name	String	Yes					65
AreaSqKm	Double	Yes			0	0	8
Elevation	Double	Yes		ElevationRange	0	0	
ReachCode	String	Yes					14
FType	Long integer	No	390		0		
FCode	Long integer	Yes	39004		0		
Shape_Length	Double	Yes			0	0	
Shape_Area	Double	Yes			0	0	

Contains polygons representing areal NHD hydrographic waterbody features.

Subtypes of NHDWaterbody

Subtype field: FType; Default subtype: 390

Subtype Code	Subtype Description
493	Estuary
378	Ice Mass
390	LakePond
361	Playa
436	Reservoir
466	SwampMarsh

List of defined default values and domains for subtypes in this class

Field name	Default value	Domain
Resolution		Resolution
Elevation		ElevationRange
FCode	49300	Estuary FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	37800	Ice Mass FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	39004	LakePond FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	36100	Playa FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	43600	Reservoir FCode
Resolution		Resolution
Elevation		ElevationRange
FCode	46600	SwampMarsh FCode

Definitions of features

Coved arm of a river, of a semi-enclosed coastal body of water with access to the open sea, which is affected by the tides and where fresh and salt water mix.

Field of ice, formed in regions of perennial cold.

Standing body of water with a predominantly natural shoreline surrounded by land.

Flat area of the lowest part of an undrained depression, generally devoid of vegetation.

Constructed basin formed to contain water or other liquids.

Noncultivated, vegetated area that is periodically saturated to a significant part of the year. The vegetation is adapted for life in saturated soil conditions.

Feature Domains (FCodes)

Coded value domain **Area of Complex Channels FCode**

Code	Description
53700	Area of Complex Channels

Coded value domain **Area to be Submerged FCode**

Code	Description
30700	Area to be Submerged

Coded value domain **ArtificialPath FCode**

Code	Description
55800	Artificial Path

Coded value domain **Bayliner FCode**

Code	Description
31200	Bayliner

Coded value domain **Bridge FCode**

Code	Description
31800	Bridge

Coded value domain **CanalDitch FCode**

Code	Description
33600	Canal Ditch
33601	Canal Ditch: Canal Ditch Type = Aqueduct
33603	Canal Ditch: Canal Ditch Type = Stormwater

Coded value domain **Coastline FCode**

Code	Description
56600	Coastline

Coded value domain **Connector FCode**

Code	Description
33400	Connector

Coded value domain **DamWeir FCode**

Code	Description
34300	DamWeir
34305	DamWeir: Construction Material = Earthen
34306	DamWeir: Construction Material = Nonearthen

Coded value domain **Estuary FCode**

Code	Description
49300	Estuary

Coded value domain **Flume FCode**

Code	Description
36200	Flume

Coded value domain **Foreshore FCode**

Code	Description
36400	Foreshore

Coded value domain **Gaging Station FCode**

Code	Description
36700	Gaging Station

Coded value domain **Gate FCode**

Code	Description
36900	Gate

Coded value domain **Hazard Zone FCode**

Code	Description
37300	Hazard Zone

Coded value domain **Ice Mass FCode**

Code	Description
37800	Ice Mass

Coded value domain **Inundation Area FCode**

Code	Description
40300	Inundation Area
40305	Inundation Area: Inundation Control Status = Controlled
40306	Inundation Area: Inundation Control Status = Stage = Flood Elevation
40307	Inundation Area: Inundation Control Status = Not Controlled

Coded value domain **LakePond FCode**

Code	Description
39004	LakePond
39005	LakePond: Hydrographic Category = Intermittent
39006	LakePond: Hydrographic Category = Intermittent: Stage = Date of Photography
39007	LakePond: Hydrographic Category = Intermittent: Stage = High Water Elevation
39009	LakePond: Hydrographic Category = Perennial
39010	LakePond: Hydrographic Category = Perennial: Stage = Average Water Elevation
39011	LakePond: Hydrographic Category = Perennial: Stage = Date of Photography
39012	LakePond: Hydrographic Category = Perennial: Stage = Normal Pool
39013	LakePond: Hydrographic Category = Perennial: Stage = Spillway

Coded value domain **Levee FCode**

Code	Description
56600	Levee

Coded value domain **Lock Chamber FCode**

Code	Description
39800	Lock Chamber

Coded value domain **Nonearthen Shore**

Code	Description
45100	Nonearthen Shore

Coded value domain **Pipeline FCode**

Code	Description
42600	Pipeline
42616	Pipeline: Pipeline Type = Aqueduct
42801	Pipeline: Pipeline Type = Aqueduct: Relationship to Surface = At or Near
42802	Pipeline: Pipeline Type = Aqueduct: Relationship to Surface = Elevated
42803	Pipeline: Pipeline Type = Aqueduct: Relationship to Surface = Underground
42804	Pipeline: Pipeline Type = Aqueduct: Relationship to Surface = Underwater
42814	Pipeline: Pipeline Type = General Case
42805	Pipeline: Pipeline Type = General Case: Relationship to Surface = At or Near
42806	Pipeline: Pipeline Type = General Case: Relationship to Surface = Elevated
42807	Pipeline: Pipeline Type = General Case: Relationship to Surface = Underground
42808	Pipeline: Pipeline Type = General Case: Relationship to Surface = Underwater
42815	Pipeline: Pipeline Type = Penstock
42809	Pipeline: Pipeline Type = Penstock: Relationship to Surface = At or Near
42810	Pipeline: Pipeline Type = Penstock: Relationship to Surface = Elevated
42812	Pipeline: Pipeline Type = Penstock: Relationship to Surface = Underwater
42813	Pipeline: Pipeline Type = Siphon
42820	Pipeline: Pipeline Type = Stormwater
42821	Pipeline: Pipeline Type = Stormwater: Relationship to Surface = At or Near
42822	Pipeline: Pipeline Type = Stormwater: Relationship to Surface = Elevated
42823	Pipeline: Pipeline Type = Stormwater: Relationship to Surface = Underground
42824	Pipeline: Pipeline Type = Stormwater: Relationship to Surface = Underwater

Coded value domain **Playa FCode**

Code	Description
36100	Playa

Coded value domain **Rapids FCode**

Code	Description
43100	Rapids

Coded value domain **Reservoir FCode**

Code	Description
43600	Reservoir
43605	Reservoir: Construction Material = Earthen
43619	Reservoir: Construction Material = Nonearthen
43603	Reservoir: Reservoir Type = Cooling Pond
43609	Reservoir: Reservoir Type = Settling Pond
43623	Reservoir: Reservoir Type = Decorative Pond
43625	Reservoir: Reservoir Type = Disposal
43626	Reservoir: Reservoir Type = Disposal: Construction Material = Earthen
43627	Reservoir: Reservoir Type = Disposal: Construction Material = Nonearthen
43607	Reservoir: Reservoir Type = Evaporator
43623	Reservoir: Reservoir Type = Evaporator: Construction Material = Earthen
43610	Reservoir: Reservoir Type = Filtration Pond
43611	Reservoir: Reservoir Type = Settling Pond
43612	Reservoir: Reservoir Type = Sewage Treatment Pond
43613	Reservoir: Reservoir Type = Storage Tank
43605	Reservoir: Reservoir Type = Tailings Pond
43604	Reservoir: Reservoir Type = Tailings Pond: Construction Material = Earthen
43614	Reservoir: Reservoir Type = Water Supply
43617	Reservoir: Reservoir Type = Water Storage
43614	Reservoir: Reservoir Type = Water Supply: Construction Material = Earthen: Hydro Cat = Intermittent
43615	Reservoir: Reservoir Type = Water Storage: Construction Material = Earthen: Hydro Cat = Perennial
43613	Reservoir: Reservoir Type = Water Storage: Construction Material = Nonearthen
43621	Reservoir: Reservoir Type = Water Storage: Hydrographic Category = Perennial

Coded value domain **Spillway FCode**

Code	Description
45500	Spillway

Coded value domain **SpringSeep FCode**

Code	Description
45600	SpringSeep

Coded value domain **StreamRiver FCode**

Code	Description
46000	StreamRiver
46003	StreamRiver: Hydrographic Category = Intermittent
46005	StreamRiver: Hydrographic Category = Perennial
46007	StreamRiver: Hydrographic Category = Ephemeral

Coded value domain **Submerged Stream FCode**

Code	Description
46100	Submerged Stream

Coded value domain **SwampMarsh FCode**

Code	Description
46600	SwampMarsh
46601	SwampMarsh: Hydrographic Category = Intermittent
46602	SwampMarsh: Hydrographic Category = Perennial

Coded value domain **Tunnel FCode**

Code	Description
47800	Tunnel

Coded value domain **Underground Conduit FCode**

Code	Description
42000	Underground Conduit
42001	Underground Conduit: Positional Accuracy = Definite
42002	Underground Conduit: Positional Accuracy = Indefinite
42003	Underground Conduit: Positional Accuracy = Approx

Coded value domain **Wall FCode**

Code	Description
48300	Wall

Coded value domain **SinkRise FCode**

Code	Description
45000	SinkRise

Coded value domain **Sounding Datum Line FCode**

Code	Description
50300	Sounding Datum Line
50301	Sounding Datum Line: Positional Accuracy = Approx
50302	Sounding Datum Line:Positional Accuracy = Definite

Coded value domain **Special Use Zone FCode**

Code	Description
45400	Special Use Zone
45402	Special Use Zone: Special Use Zone Type = Dump Site: Operational Status = Abandoned
45401	Special Use Zone: Special Use Zone Type = Dump Site: Operational Status = Operational
45403	Special Use Zone: Special Use Zone Type = Sanitary Landfill: Operational Status = Operational
45403	Special Use Zone: Special Use Zone Type = Sanitary Landfill: Operational Status = Abandoned

Coded value domain **Special Use Zone Limit FCode**

Code	Description
53304	Special Use Zone Limit
53301	Special Use Zone Limit: Positional Accuracy = Definite
53302	Special Use Zone Limit: Positional Accuracy = Indefinite

Coded value domain **Waterfall FCode**

Code	Description
48700	Waterfall

Coded value domain **Wall FCode**

Code	Description
48800	Wall

Non-FCode Domains

Range domain **ElevationRange**

Minimum value	Maximum value
-400	9000

elevation values in meters

Coded value domain **Event Feature Class Reference**

Code	Description
1	NHDArea
2	NHDFlowline
3	NHDLine
4	NHDPoint
5	NHDWaterbody

Coded value domain **FlowDirection**

Code	Description
709	In
712	NetworkStart
713	NetworkEnd
714	NonFlowing

Coded value domain **HydroFlowDirections**

Code	Description
0	Unknown
1	High
2	Medium
3	Low
4	Other

Coded value domain **HydrologicUnitSource**

Code	Description
0	Watershed Boundaries Dataset
1	NED
2	Other

Coded value domain **Resolution**

Code	Description
0	Local
1	High
2	Medium
3	Low

Event Feature Classes

Simple feature class **NHDAreaEventFC**

Geometry: Polygon; Contains M values: No; Contains Z values: No

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length
Shape	Geometry	Yes					
OBJECTID	Object ID						
ComID	Long integer	No			0		
EventDate	Date	Yes			0	0	8
ReachCode	String	No					14
ReachOfDate	Date	Yes			0	0	8
ReachResolution	Long integer	No		Resolution	0		
FeatureComID	Long integer	Yes			0		
FeatureClassRef	Long integer	Yes		Event Feature Class Ref	0		
Source_Originator	String	Yes					130
Source_DataDesc	String	Yes					100
Source_FeatureID	String	Yes					40
FeatureDetailURL	String	Yes					255
Offset	Double	Yes		Area Event Type	0	0	
Shape_Length	Double	Yes			0	0	
Shape_Area	Double	Yes			0	0	

Simple feature class **NHDLineEventFC**

Geometry: Polyline; Contains M values: No; Contains Z values: No

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length
Shape	Geometry	Yes					
OBJECTID	Object ID						
ComID	Long integer	No			0		
EventDate	Date	Yes			0	0	8
EventType	Long integer	No		Line Event Type	0		
ReachCode	String	No					14
ReachOfDate	Date	Yes			0	0	8
ReachResolution	Long integer	No		Resolution	0		
FeatureComID	Long integer	Yes			0		
FeatureClassRef	Long integer	Yes		Event Feature Class Reference	0		
Source_Originator	String	Yes					130
Source_DataDesc	String	Yes					100
Source_FeatureID	String	Yes					40
FeatureDetailURL	String	Yes					255
Offset	Double	Yes			0	0	
FMeasure	Double	No			0	0	
TMeasure	Double	No			0	0	
Shape_Length	Double	Yes			0	0	

Simple feature class **NHDPointEventFC**

Geometry: Point; Contains M values: No; Contains Z values: No

Field name	Data type	Allow nulls	Default value	Domain	Precision	Scale	Length
Shape	Geometry	Yes					
OBJECTID	Object ID						
ComID	Long integer	No			0		
EventDate	Date	Yes			0	0	8
EventType	Long integer	No		Point Event Type	0		
ReachCode	String	No					14
ReachOfDate	Date	Yes			0	0	8
ReachResolution	Long integer	No		Resolution	0		
FeatureComID	Long integer	Yes			0		
FeatureClassRef	Long integer	Yes		Event Feature Class Reference	0		
Source_Originator	String	Yes					130
Source_DataDesc	String	Yes					100
Source_FeatureID	String	Yes					40
FeatureDetailURL	String	Yes					255
Offset	Double	Yes			0	0	
Measure	Double	No			0	0	

Relationship class **NHDAreaEventFCToMeta** (One to many)

Relationship class **NHDPointToMeta** (One to many)

Relationship class **NHDLineToMeta** (One to many)

Relationship class **NHDAreaToMeta** (One to many)

Relationship class **NHDFlowlineToMeta** (One to many)

Relationship class **NHDPointEventFCToMeta** (One to many)

Relationship class **NHDWaterbodyToMeta** (One to many)

Relationship class **NHDLineEventFCToMeta** (One to many)

Feature Metadata

In the NHD geodatamodel, feature-level metad