The Catalog View

Object table
EXTERNALCROSSWALK

NHDAreaToMeta

NHDFCode

Object table

Object table

HYDRO_NET_BUILDERR

NHDAreaEventFCToMeta

NHDFeatureToMetadata

NHDFlowlineToMeta

■ NHDLineEventFCToMeta

Attribute Tables

NHDFlowlineVAA

NHDLineToMeta

Object table

Object table

NHDMetadataHasSourceCitation

NHDMetaToFeature

NHDPointToMeta

NHDPointEventFCToMeta

NHDProcessingParamaters

NHDReachCodeMaintenance

NHDReachCrossReference

NHDVerticalRelationship

NHDWaterbodyToMeta

NHDSourceCitation

Relationship

Relationship

Object table

Object table

Object table

Object table

Object table

NHDStatus

Relationship

characteristics and values.

Integer code for the direction of flow.

Date of last feature modification.

Drain_level of the downstream mainstem drain.

Nationally unique ID for the "from" node endpoint of the drain.

Nationally unique ID for the "to" node endpoint of the drain.

Hydrologic sequence number of terminal flowline.

LevelPathID of upstream mainstream drain.

Level path ID of downstream drain.

Hydro Sequence No. of upstream mainstem drain.

Number of drains immediately downstream.

Only NHDFlowline features can

participate in vertical relationships.

Permanent Identifier of feature above vertical offset.

Permanent Identifier of feature below vertical offset.

o external source identifiers. (1:M)

oadDate of ExternalID record.

Parameters used for

rocessing data.

Minimum Hydro Sequence No. of all upstream drains.

Strahler stream order number for the drain.

Permanent_Identifier from which feature flows.

anent_Identifier to which feature flows.

edominant material used (Earthen, Nonearthen, or Unspecified.

nction or purpose (Aqueduct, General, Penstock, or Siphon).

ertical location relative to the surface (Abovewater or Underwater).

Portion of the year the feature contains water (Intermittent or Perennial). istence of functional control sturctures (Controlled or Not Controlled)

he accuracy a feature can be confidently positioned (Approximate or Definite

Flow table values are derived from the topologic connectivity of the

eometric network and attribute values of NHDFlowline features.

HDFlowline Value Added Attributes are entirely derived from

40-char GUID value that uniquely identifies the occurrence of each feature in The National Map.

Distance from this drain pourpoint to its terminal drain's pourpoint according to the DFlow Table.

Sum of the lengths of all the drains that drain to the downstream end of the current drain.

Set to '1' if the drain is a headwater drain according to the DFlow Table, otherwise '0'.

At a divergence, the Hydro sequence number of the minor downstream drain.

Contains associations of Permanent_Identifiers

Iniquely identifies the occurrence of each feature in the source dataset.

ield name in the external source dataset that contains the unique IDs.

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

Table used to maintain links for backward

compatibility with FOD-based systems.

Date when OldReachCode was originally assigned (yyyymmdd)

Date when NewReachCode was assigned (yyyymmdd

Upstream Marker Index of Old Reach (RF-3-Alpha Only

Reach File Version in which change became effective

Hydrologic Unit of feature prior to migration.

Hydrologic Unit of feature after migration.

Upstream Marker Index of New Reach (RF-3-Alpha Only

Reach Spatial Modification Date.

each code prior to change.

Type of change to the reach feature.

Process where the change occurred.

Reach code after change.

Unique identifier assigned by GNIS.

char GUID value that uniquely identifies the occurrence of each feature in *The National Map.* que identifier composed of two parts, first eight digits = subbasin code as defined by FIPS 103, and next

Code of source resolution: 1=Local resolution, 2=High resolution, 3=Medium Resolution

Name of the organization or individual who developed the external dataset/features.

Administrative level of the organization who developed the external dataset/features.

Hydro Sequence No. of downstream drain that is on the same level path as this drain according to the DFlow Table.

Set to '1' if drain is a terminal drain (flows into ocean, Great Lakes, Canada, Mex. or the ground) otherwise set to '0'.

If this drain is 1 branch of a flow split, 1=drain is main branch, 2=otherwise, 0= drain not a branch of flow split.

Ordinal value designed to allow selection of progressively more dense networks. Least dense network=1.

40-char GUID value that uniquely identifies the occurrence of each feature in The National Map.

0-char GUID value that uniquely identifies the occurrence of each feature in The National Map.

the NHDFlowline features and the Flow table values.

Nationally unique sequence number that places the reach in hydrologic sequence.

unction or purpose (Aquaculture, Decorative Pool, Disposal, Evaporator, Swim Pool, Treatment, Unspecified, or Water Storage).

NHD Geodatabase

Geometric network

Point feature class

Polygon feature class

NHDArea

Polygon feature class
NHDAreaEventFC

NHDFlowline

Line feature class

Line feature class

Line feature class

Point feature class

Point feature class

Polygon feature class

NHDLine

NHDLineEventF0

NHDPointEventFC

Feature Detail

Long integer No String No String Yes

Allow Prec-Field name Data type nulls Default value Domain ision Scale Lo

Allow Prec-Field name Data type nulls Default value Domain ision Scale Ler

Allow Prec-Field name Data type nulls Default value Domain ision Scalo

Allow Prec-Field name Data type nulls Default value Domain ision Scale Lo

Allow Prec-Field name Data type nulls Default value Domain ision Scale L

Field name Data type nulls Default value Domain Frecision Scale Ler

OBJECTID Object ID Permanent_Identifier String No ReachCode String No ReachSMDate Date Yes 0 0 0

Allow Prec-Field name Data type nulls Default value Domain ision Scale Le

Resolution

ChangeCode Domain

Process Domain

Table NHDFCode

CanalDitchType

RelationshipToSurface

Table NHDFlow

DeltaLevel Long integer Yes

Direction Long integer Yes

From_Permanent_Identifier String No

To_Permanent_Identifier String

Table NHDFlowlineVAA

StreamLevel

StreamOrder

FromNode

ToNode

HydroSeq

LevelPathID

PathLengthKM

TerminalPathID

ArbolateSumKM

StartFlag

TerminalFlag

DnLevel

ThinnerCode

UpLevelPathId

UpHydroSeq

UpMinHydroSeq

DnLevelPathID

GLOBALID

DnMinHydroSeq

Permanent_Identifier String No FDate Date Yes

DivergenceFlag Long integer Yes

Table NHDVerticalRelationship

OBJECTID Object ID
Permanent_Identifier String No

Above_Permanent_Identifier String No

Below_Permanent_Identifier String No

Permanent_Identifier String No

ExternalIDOriginator String Yes

OrganizationType Long integer Yes

Table NHDProcessingParameters

ParameterName String No

ID String No
Permanent_Identifier String No
Status Long integer No

Table NHDReachCodeMaintenance

Table NHDReachCrossReference

Long integer No

String Yes

ReachSMDate Resolution

OldReachDate NewReachCode NewReachDate OldUPMI

NewUPMI

ReachFileVersion OldHUCode NewHUCode GLOBALID

ChangeCode Process

Table ExternalCrosswalk

ExternalID

ExternalIDName

Long integer Yes

Long integer Ye

Double Yes

Double Yes

Double Yes

Double Yes

Double Yes

Double Yes

Long integer Yes

Long integer Yes

Long integer Yes

Long integer Yes

Double Yes

Double Yes

Double Yes

Double Yes

Long integer Yes
Global ID

Double Yes

Double Yes

HYDRO_NET_Junction

Feature dataset

Hydrography

National Hydrography Dataset (NHD) Model



ComID field deleted from all feature classes/tables DuulD field deleted from metadata tables All other changes indicated as follows: New element Update Deletion

ontains regions representing areal

D hydrographic waterbody features.

0-char GUID value that uniquely identifies the occurrence of each feature in The National Map

- 1411101 01	111			Contains Z	value	es Yes		
		Allow			ec-			FEATUR
Field name	Data type	nulls	Default value	Domain is	ion S	Scale L	.ength	ILAIUN
OBJECTID	Object ID							
Shape	Geometry	Yes						
Permanent_Identifi	ier String	No					40	40-char GUID value that uniquely identifies the occurrence of each feature in The National Map.
FDate	Date	No			0	0	8	Date of last feature modification.
Resolution	Long integer	No		Resolution	0			Code for source resolution: 1=Local resolution, 2=High resolution, 3=Medium resolution.
GNIS_ID	String	Yes					10	Unique identifier assigned by GNIS, length 10.
GNIS_Name	String	Yes					65	Proper name, specific term, or expression by which a particular geographic entity is known.
ReachCode	String	Yes					14	Unique identifier composed of two parts. The first eight digits are the subbasin code defines by FIPS 103, next six digits is a randomly assigned sequential number unique within a Cataloging Unit, length 14.
FType	Long integer	No	458		0			Three-digit integer value, unique identifier of a feature type.
FCode	Long integer	Yes	45800		0			Five-digit integer value comprised of the feature type and combinations of characteristics and values.
GLOBALID	Global ID							1
Subtypes of	NHDPoint							——
, ,								
	eld <i>FType</i>							
Default subty			List of defined defa	ult values and domains fo	r sub	otypes ii	n this cla	dass
Subtype Code	Subtype Description		Field name	Default value		ı	Domain	<u>Definitions of features</u>
343	DamWeir		Resolution				esolution	
040	Danivion	7	FCode	34305		Dam	Weir FC	Code Barrier constructed to control the flow, or raise the level, of water.
367	Gaging Station		Resolution			R	esolution	
301	Oaging Otation	7	FCode	36700		Gaging	Station I	on FCode Structure used to measure the characteristics of a hydrographic feature.
369	Gate		Resolution				esolution	
505	Oate	7	FCode	36900			ate FCod	
398	Lock Chamber		Resolution				esolution	
550	LOCK Onamber	7	FCode	39800		Lock C	hamber I	Enclosure on a waterway used to raise or lower the vessels as they pass from one level to another.
431	Rapids		Resolution				esolution	
701	ιαρίασ	_	FCode	43100			oids FCo	
436	Reservoir		Resolution				esolution	
400	1 (CGC) VOII	7	FCode	43600		Rese	ervoir FC	Constructed basin formed to contain water or other liquids.
441	Rock		Resolution				esolution	
77.	NOON	7	FCode	44101		Ro	ock FCod	code Concreted mass of stony material.
450	SinkRise		Resolution			R	esolution	ion
730	OHINING	7	FCode	45000		Sink	Rise FC	Code Place at which a stream disappears underground, or reappears at the surface in a karst area.
458	SpringSeep		Resolution			R	esolution	
400	Springseep							D

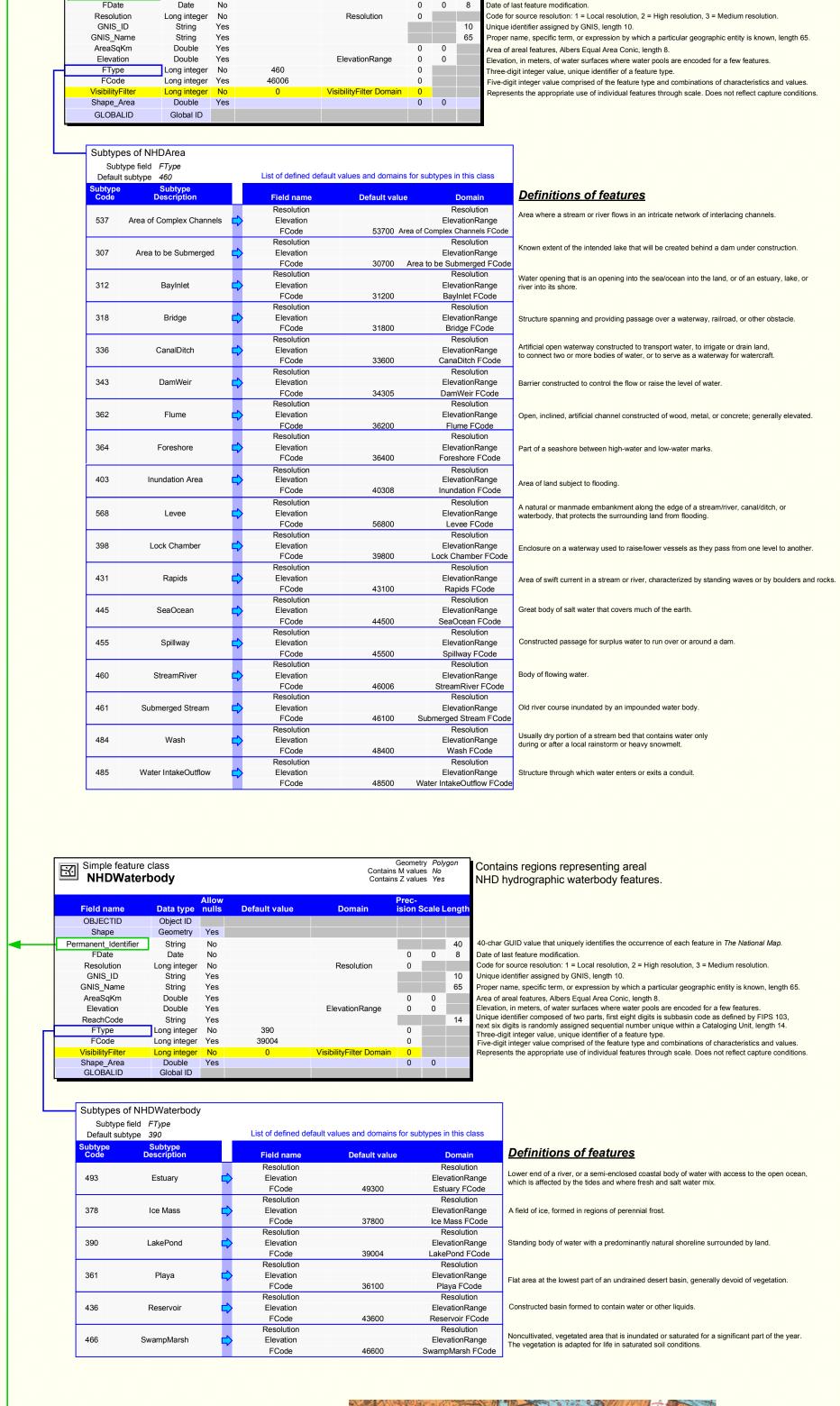
NHDPoint

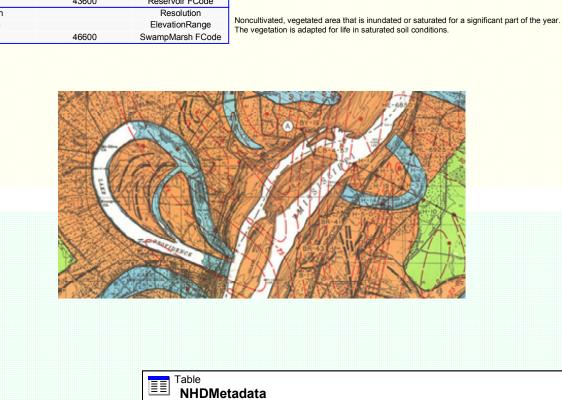
121	Rapids	Resolu	ution		Re	esolution		GLOB/	ALID Global ID				
431	Rapius	FCoo	de 4	3100	Rapi	ids FCode	Area of swift current in a stream or river characterized by standing waves, boulders, or rocks.						
436	Reservoir	Resolu	ution		Re	esolution							
430	Reservoir	FCoo	de 4	3600	Reser	rvoir FCode	Constructed basin formed to contain water or other liquids.	Subtyr	es of NHDArea				1
441	Rock	Resolu	ution		Re	esolution		71					
771	NOCK	FCod	de 4	4101	Roo	ck FCode	Concreted mass of stony material.		type field FType	Link of dofined dofe.uk		audatuma a im their alara	
450	SinkRise	Resolu				esolution			t subtype 460	List of defined default	values and domains for	subtypes in this class	
400	Olitic Cisc	FCoo	de 4	5000		Rise FCode	Place at which a stream disappears underground, or reappears at the surface in a karst area.	Subtype Code	Subtype Description	Field name	Default value	Domain	<u>Defi</u>
458	SpringSeep	Resolu				esolution		Code	Description		Delauit value		Dem
400	Ориндосер	FCoo		5800		Seep FCode	Place where water issues from the ground naturally.			Resolution		Resolution	Area wh
485	Water IntakeOutflow	Resolu				esolution		537	Area of Complex Channels	Elevation	50700 4	ElevationRange	
400	Water intakeOutilow	FCoo		8500		Outflow FCode	Structure through which water enters or exits a conduit.			FCode	53700 Area of	f Complex Channels FCode	4
487	Waterfall	Resolu	ution		Re	esolution				Resolution		Resolution	Known
407	vvateriali	FCod	de 4	8700	Wate	rfall FCode	Vertical or near vertical descent of water over a step or ledge in the bed of a river.	307	Area to be Submerged	Elevation		ElevationRange	
488	Well	Resolu	ution		Re	esolution	Pit or help due or hand into the andth for the cutration of under or other fluids or page.			FCode	30700 Area	a to be Submerged FCode	4
400	vveii	FCoo	de 4	8800	We	ell FCode	Pit or hole, dug or bored into the earth for the extraction of water or other fluids, or gasses.			Resolution		Resolution	Water o
								312	BayInlet 🗬	Elevation		ElevationRange	river into
										FCode	31200	BayInlet FCode	
										Resolution		Resolution	
ple featu	re class			Geometr	y Polyline	Contains	routes representing linear	318	Bridge 🗬	Elevation		ElevationRange	Structui
DLine				ns M value		NHD hvo	drographic landmark features.			FCode	31800	Bridge FCode	4
IDLIIIC			Conta	IIIS Z Value	5 165	14. 12ye	nograpino lamana nograpos.			Resolution		Resolution	Artificial
	Allow			Prec-				336	CanalDitch 📫	Elevation		ElevationRange	to conne
l name	Data type nulls	Default value	Domain	ision S	cale Length					FCode	33600	CanaDitch FCode	
ECTID	Object ID									Resolution		Resolution	
hape	Geometry Yes							343	DamWeir 📥	Elevation		ElevationRange	Barrier
nt Identifie	r String No				40	40 char GUII	D value that uniquely identifies the occurrence of each feature in <i>The National Map</i> .			FCode	34305	DamWeir FCode	4
Date	Date No			0	0 8		eature modification.			Resolution		Resolution	
olution	Long integer No		Resolution	0	0 0		rce resolution: 1=Local resolution, 2=High resolution, 3=Medium resolution.	362	Flume	Elevation		ElevationRange	Open, ir
			Resolution	U	10					FCode	36200	Flume FCode	4
IIS_ID	String Yes String Yes				10		fifer assigned by GNIS, length 10.			Resolution		Resolution	
S_Name	•			0	0		, specific term, or expression by which a particular geographic entity is known.	364	Foreshore 😅	Elevation		ElevationRange	Part of a
gthKm	Double Yes	444		0	U		ear feature, Albers Equal Area Conic, length 8.			FCode	36400	Foreshore FCode	
Type	Long integer No	411		0			teger value, unique identifier of a feature type.			Resolution		Resolution	
Code lity Filter	Long integer Yes Long integer No	41100 0	VisibilityFilter Domai	n 0		· · · · · · · · · · · · · · · · · · ·	eger value comprised of the feature type and combinations of characteristics and values.	403	Inundation Area	Elevation		ElevationRange	Area of
BALID	Global ID	U	visibilityr liter Domai	0		Represents th	he appropriate use of individual features through scale. Does not reflect capture conditions.			FCode	40308	Inundation FCode	4
E Length	Double Yes			0	0					Resolution		Resolution	A natur
Lengin	Double res			U	U								r natul

	GNIS_ID	String	Yes					nique identifier assigned by GNIS, length 10.			
	GNIS_Name	String	Yes					roper name, specific term, or expression by which a particular geographic entity is known.		364	Fore
	LengthKm	Double	Yes	***		0 0		ength of linear feature, Albers Equal Area Conic, length 8.			
	FType	Long integer		411		0		hree-digit integer value, unique identifier of a feature type.			
	FCode Visibility Filter	Long integer Long integer		41100 0	VisibilityFilter Domain	0	•	ive-digit integer value comprised of the feature type and combinations of characteristics and values.		403	Inundat
	GLOBALID	Global ID	INO	U	VISIDIIILYFIILEI DOMAIN	U		epresents the appropriate use of individual features through scale. Does not reflect capture conditions.			
	Shape Length		Yes			0 0					
	emap e_emgan									568	Le
	Subtypes o	of NHDLine									
	Subtype t	field FType								398	Lock C
	Default subt			List of defined def	fault values and domains	s for subtypes in	n this clas				
	Subtype Code	Subtype Description						Definitions of features			
	Code	Description		Field name	Default value		Domain	<u>Demilions of reatures</u>		431	Ra
	318	Bridge		Resolution	0.4000		esolution	Structure spanning and providing passage over a waterway, railway, or other obstacle.			
				FCode	31800		lge FCod			445	Cool
	343	DamWeir		Resolution	0.4005		esolution	Barrier constructed to control the flow, or raise the level, of water.		445	SeaC
				FCode	34305		eWeir FCo	le e			
	362	Flume		Resolution FCode	36200		me FCode	Open inclined artificial channel constructed of wood, metal, or concrete; generally elevated.		455	Spil
				Resolution	30200		esolution			400	Зрії
	369	Gate		FCode	36900		ite FCode	Structure that may be swung, drawn, or lowered, to block an entrance or passageway.			
				Resolution	30300		esolution	A natural or manmade embankment along the edge of a stream/river, canal/ditch, or waterbody, that protects the		460	Stream
	568	Levee		FCode	56800		ee FCode	A natural or maintained embarriament along the edge of a streaminiver, canariation, or waterbody, that protects the surrounding land from flooding.		100	Olloui
				Resolution	00000		esolution				
	398	Lock Chamber		FCode	39800		namber F	Enclosure on a waterway used to raise or lower vessels as they pass from one level to another.		461	Submerge
				Resolution			esolution				
	411	Nonearthen Shore		FCode	41100	Nonearthe	n Shore F	Code Structure built of stone, concrete, or other building material, that borders a body of water.			
	101	D ::	_	Resolution			esolution			484	Wa
	431	Rapids	-	FCode	43100	Rap	ids FCod	Area of swift current in a stream or river characterized by standing waves, or by boulders and rocks.			
	434	Reef	_	Resolution		Re	esolution				
	434	Reei	-	FCode	43400	Re	ef FCode	Chain of rocks or coral at, or near, the surface of the water.		485	Water Inta
	450	SinkRise		Resolution		Re	esolution				
	430	Silikivise		FCode	45000		Rise FCo	Place at which a stream disappears underground or reappears at the surface in a karst area.			
	503	Sounding Datum Line	_	Resolution			esolution	Line representing the tidal datum to which bathymetric contours are referenced.			
	000	Countaing Datain Line		FCode	50302	Sounding Dat		Code Line representing the tidal datum to which barrymetric contours are referenced.			
	478	Tunnel		Resolution			esolution	Underground or underwater passage.			
				FCode	47800		nel FCode				
	483	Wall		Resolution			esolution	Upright structure of masonry, wood, plaster, or other building material serving to			
				FCode	48300		all FCode	enclose, divide, or protect an area.	- E	Simple fe	ature class
	487	Waterfall		Resolution	40700		esolution erfall FCod	Vertical or near vertical descent of water over a step or ledge in the bed of a river.		NHDW	aterbody
				FCode	48700	vvate	maii FCoo	3		1411044	aterboay
	- 0:l- ft	1			Ge	ometry Polyline	-		F	ield name	e Data
+	Simple featur				Contains M	values Yes	Co	nsists of routes that make up a linear	(OBJECTID	Obje
	NHDFlow	viine			Contains Z	values Yes	SU	face water drainage network.		Shape	Geo
		AII	ow		De	ec-		-	Perma	anent_lder	ntifier Sti
	Field name	Data type nu		Default value		ec- on Scale Lend	ath			FDate	Da
	OR IECTID	Object ID							F	Resolution	Long

Simple featu NHDFlov				Contains Contains	M valu		Co	onsists of routes that make up a linear rface water drainage network.
Field name	Data type	Allow nulls	Default value		Prec- ision	Scale L	ength	
OBJECTID Shape	Object ID Geometry	Yes						
Permanent Identifie		No					40 40-	char GUID value that uniquely identifies the occurrence of each feature in The National Map.
FDate	Date	No			0	0		e of last feature modification.
Resolution	Long integer	No		Resolution	0	0	-	de for source resolution: 1=Local resolution, 2=High resolution, 3=Medium resolution.
GNIS ID	String	Yes		resolution				que identifier assigned by GNIS, length 10.
GNIS Name	String	Yes						per name, specific term, or expression by which a particular geographic entity is known, length 65.
LengthKm	Double	Yes			0	0		gth of linear feature, Albers Equal Area Conic, length 8.
ReachCode	String	Yes			0	U		que identifier composed of two parts. The first eight digits is the subbasin code as defined by FIPS 103. The n
FlowDir	Long integer	No	0	HydroFlowDirections	0		SIX	digits are randomly assigned, sequential numbers that are unique within a Cataloging Unit, length 14.
BArea Permanent Ide		Yes	U	TrydrorlowDirections	U			ection of flow relative to coordinate order, length 4. manent Identifier of the waterbody through which the Flowline (Artificial Path) flows.
FType	Long integer	No	460		0			ee digit integer value, unique identifier of a feature type.
FCode	Long integer		46003		0			e-digit integer value comprised of the feature type and combinations of characteristics and values.
MainPath	Long integer		0	MainPath Domain	0		FIVE	e-digit integer value comprised of the reature type and combinations of characteristics and values.
	0 0							
InNetwork	Long integer		0	NoYes Domain	0			
VisibilityFilter	Long integer		0	VisibilityFilter Domain	0		Rep	resents the appropriate use of individual features through scale. Does not reflect capture conditions.
Shape_Length	Double	Yes			0	0		
GLOBALID	Global ID							
Subtypes of N Subtype fiel Default subtyp	d <i>FType</i>		List of defined de	efault values and domains	s for su	btypes i	n this class	
Subtype Code	Subtype Description		Field name	Default value	,		Domain	<u>Definitions of features</u>
			Resolution			F	Resolution	
558	Artificial Path		FlowDir	0		Hydro	FlowDirections	Abstraction to facilitate hydrologic modeling through open water bodies and along coastal and
			FCode	55800		Artifici	al Path FCode	
			Resolution			F	Resolution	
226	CanalDitah	_	FlowDir	0		I I colored	ElowDiroctions	Artificial open waterway constructed to transport water, to irrigate or drain land, to connect

ıbtype 460	List of defined default	values and domains	for subtypes in this class	
Subtype Description	Field name	Default value	Domain	<u>Definitions of features</u>
	Resolution		Resolution	
Artificial Path	FlowDir	0	HydroFlowDirections	Abstraction to facilitate hydrologic modeling through open water bodies and along coastal and
	FCode	55800	Artificial Path FCode	Great Lakes shorelines and to act as a surrogate for lakes and other water bodies.
	Resolution		Resolution	
CanalDitch	FlowDir	0	HydroFlowDirections	Artificial open waterway constructed to transport water, to irrigate or drain land, to connect
	FCode	33600	CanalDitch FCode	two or more bodies of water, or to serve as a waterway for watercraft.
	Resolution		Resolution	
Coastline	FlowDir	0	HydroFlowDirections	Line that follows the main outline of the land, including bays, but crosses rivers at their mouth.
	FCode	56600	Coastline FCode	In the NHD, the outline of selected coastal islands are included as part of the coastline.
	Resolution		Resolution	
Connector	FlowDir	0	HydroFlowDirections	Known, but unspecific, connection between two nonadjacent network segments.
	FCode	33400	Connector FCode	
	Resolution		Resolution	
Pipeline	FlowDir	0	HydroFlowDirections	Closed conduit with pumps, valves, and control devices, for conveying fluids, gasses, or finely divided solids.
	FCode	42805	Pipeline FCode	iniciy divided solids.
	Resolution		Resolution	
StreamRiver	FlowDir	0	HydroFlowDirections	Body of flowing water.
	FCode	46006	StreamRiver FCode	
	Resolution		Resolution	
Underground Conduit	FlowDir	0	HydroFlowDirections	Underground passage of surface water.
	FCode	42000	Underground Conduit FCode	





OBJECTID Object ID

Meta_ProcessID String Yes

ProcessDescription String No
ProcessDate Date No

MetadataDate

DataSetCredit

ContactOrganization

AddressType

Address

StateOrProvince

PostalCode

PublicationDate

BeginningDate

EndingDate

SourceContribution String Yes

TypeOfSourceMedia String Yes

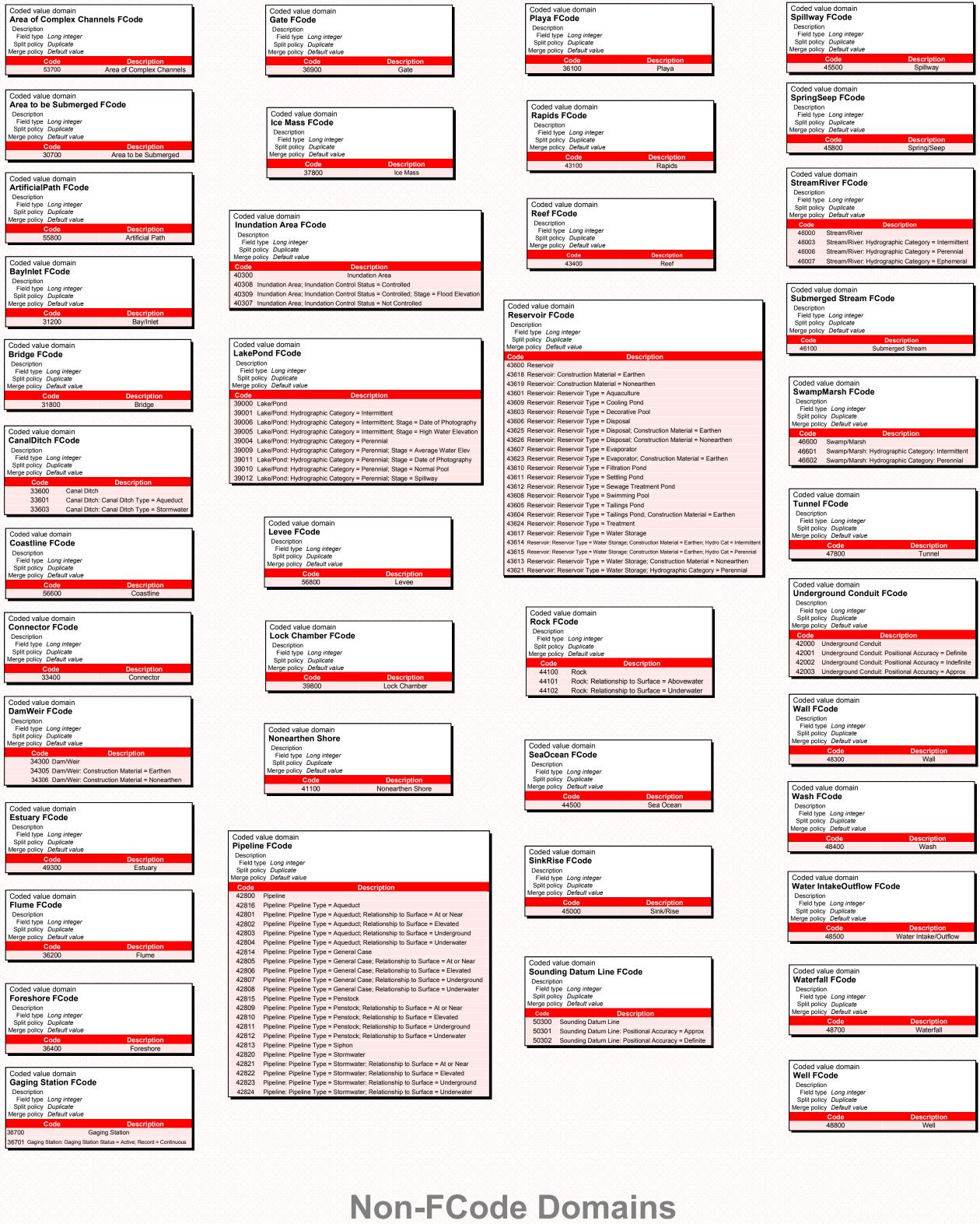
CalendarDate Date Ye

SourceScaleDenominator Long integer Yes

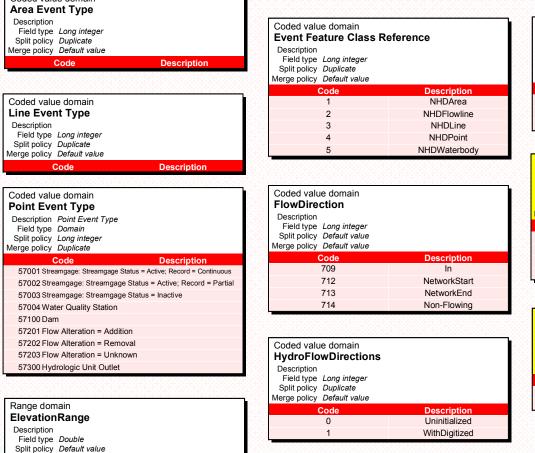
ContactInstructions String Yes

Allow Prec-Field name Data type nulls Default value Domain ision Scale L

Allow Prec-Field name Data type nulls Default value Domain ision Scale Le







Description
Field type Long integer
Split policy Duplicate
Merge policy Default value

Coded value domain
ArtificialPath FCode

Coded value domain BayInlet FCode

Coded value domain

Coded value domain
CanalDitch FCode

Description
Field type Long integer
Split policy Duplicate
Merge policy Default value

Coastline FCode

Description
Field type Long integer
Split policy Duplicate
Merge policy Default value

Connector FCode

DamWeir FCode

Estuary FCode Description
Field type Long integer
Split policy Duplicate

Flume FCode

Description
Field type Long integer
Split policy Duplicate

Foreshore FCode

Coded value domain

Gaging Station FCode

que permanent ID value which uniquely identifies a process in The National Map

nique permanent ID value which uniquely identifies a source dataset used in The National Map.

Explanation of the process, including parameters or tolerances

Explanation of entities and assignments of values in dataset

Explanation of fidelity of relationships in dataset, and tests used.

Horizontal coordinate measurements and description of tests used.

Name of the metadata standard used to document the dataset

Date the metadata was last created or updated.

Address line for the address.

State or province of the address.

ZIP or other postal code of the address.

Name by which the dataset is known.

short form alias for source citation.

ce data set is determined.

Name of an organization or individual that developed the dataset.

Brief statement identifying information contributed by source to datase

The medium of the source dataset, i.e. paper, CD-ROM, online, etc.

ate the dataset is published or made available for release.

First year of the event (if Range of Dates applies).

ast year of the event (if Range of Dates applies).

nomination of representative fraction on a map.

City of the address.

Recognition of those who contributed to the dataset.

Name or organization to which type of contact applies.

Telephone number to reach organization or individual.

Supplemental instructions to contact organization or individual

-mail address to reach contact organization or individual.

Vertical coordinate measurements and description of tests used.

Information provided about the address, i.e.; mailing, physical, etc.

Information about omissions, criteria, definitions used to derive datase

Date when the process was completed.

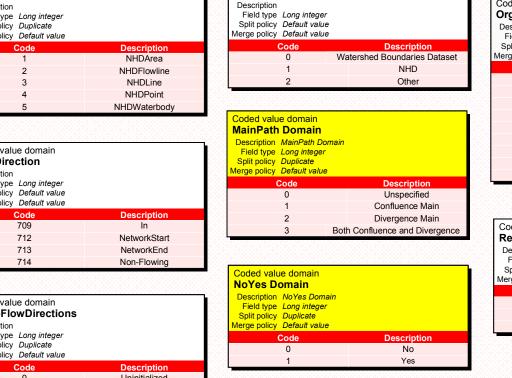
Split policy Duplicate
Merge policy Default value

Description
Field type Long integer

Description
Field type Long integer

Description
Field type Long integer

Bridge FCode



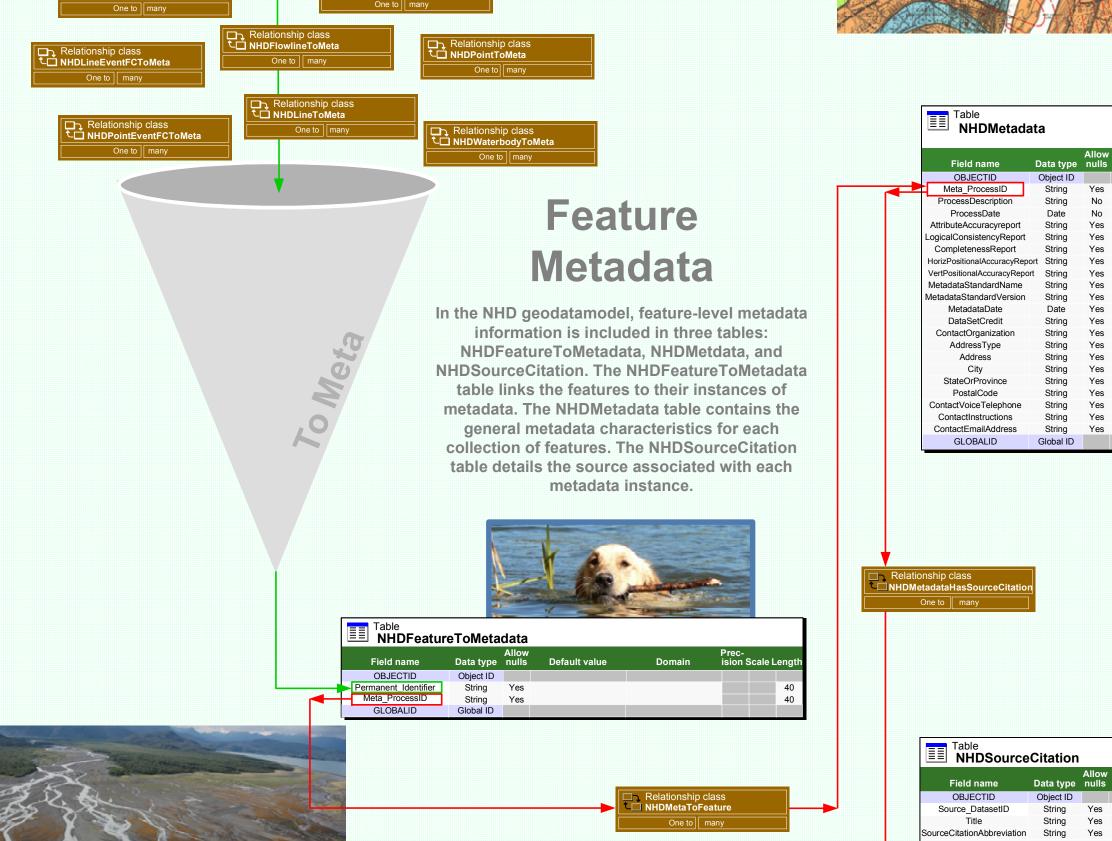
Coded value domain Organization Type Description Field type Long integer Split policy Duplicate Merge policy Default value		Coded
Code	Description	Visibil Descript
0	Unknown	Field to
1	International	Split po
2	Federal	Merge po
3	Tribal	
4	State	
5	Regional	48
6	County	12
7	Municipal	24
8	Private	50
		100
		150
		250
Coded value domain		500
Resolution		100
Description		200
Field type Long integer Split policy Duplicate		500
Merge policy Default value		
Code	Description	
1	Local	
2	High	
3	Medium	

Event Feature Classes

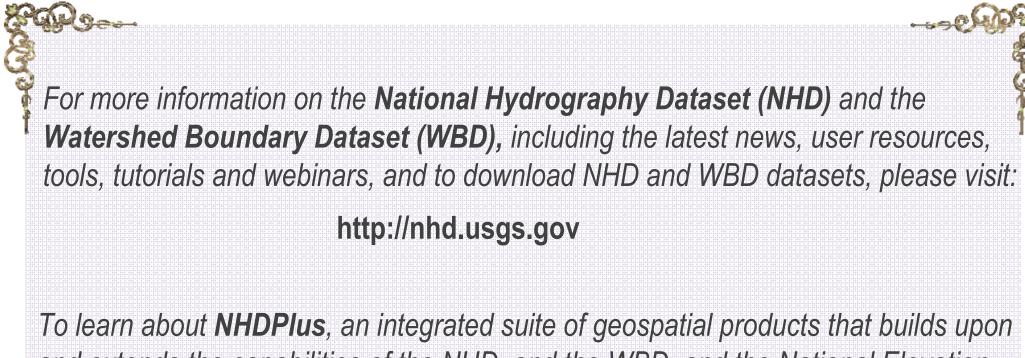
Field name	Data type	Allow nulls	Default value		Prec- ision	Scale I	Lengt
Shape	Geometry	Yes					
OBJECTID	Object ID						
Permanent_Identifier	String	No					40
EventDate	Date	Yes			0	0	8
ReachCode	String	No					14
ReachSMDate	Date	Yes			0	0	8
ReachResolution	Long integer	No		Resolution	0		
Feature_Permanent_Identifie	er String	Yes					40
FeatureClassRef	Long integer	Yes	Eve	nt Feature Class Reference	0		
Source_Originator	String	Yes					130
Source_DataDesc	String	Yes					100
Source_FeatureID	String	Yes					100
FeatureDetailURL	String	Yes					255
EventType	Long integer	No		Area Event Type	0		
Shape_Length	Double	Yes			0	0	
Shape_Area	Double	Yes			0	0	
GLOBALID	Global ID						

Simple feature of NHDLineEv				Contains Contains		ies No
Field name	Data type	Allow nulls	Default value	Domain	Prec- ision	Scale
Shape	Geometry	Yes				
OBJECTID	Object ID					
Permanent_Identifier	String	No				
EventDate	Date	Yes			0	0
ReachCode	String	No				
ReachSMDate	Date	Yes			0	0
ReachResolution	Long integer	No		Resolution	0	
Feature_Permanent_Identifier	String	Yes				
FeatureClassRef	Long integer	Yes	Ever	t Feature Class Reference	0	
Source_Originator	String	Yes				
Source_DataDesc	String	Yes				
Source_FeatureID	String	Yes				
FeatureDetailURL	String	Yes				
FMeasure	Double	No			0	0
TMeasure	Double	No			0	0
* * * * * * * * * * * * * * * * * * * *	Long integer	No		Line Event Type	0	
EventOffset	Double	Yes			0	0
Shape_Length	Double	Yes			0	0
GLOBALID	Global ID					

FeatureClassRef	Long intoger	Voc	- Fuen	t Feature Class Reference	9 0		
Source Originator	Long integer String	Yes	Even	it i catule Glass Relefelice	5 0		130
Source_Originator Source_DataDesc	String	Yes					100
Source FeatureID	String	Yes					100
FeatureDetailURL	String	Yes					255
FMeasure	Double	No			0	0	233
TMeasure	Double	No			0	0	
EventType	Long integer	No		Line Event Type	0		
EventOffset	Double	Yes		Line Event Type	0	0	
Shape Length	Double	Yes			0	0	
GLOBALID	Global ID	1 00					
NHDPointE							
— NADPOINE							
Field name	Data type	Allow nulls	Default value	Domain	Prec-	Scale I	_engt
			Default value	Domain		Scale I	_engt
Field name	Data type	nulls	Default value	Domain		Scale I	Lengt
Field name Shape OBJECTID	Data type Geometry Object ID	nulls	Default value	Domain		Scale I	Lengt
Field name Shape	Data type Geometry	nulls Yes	Default value	Domain		Scale I	
Field name Shape OBJECTID Permanent_Identifier	Data type Geometry Object ID String	Yes No	Default value	Domain	ision		40
Field name Shape OBJECTID Permanent_Identifier EventDate	Data type Geometry Object ID String Date	Yes No Yes	Default value	Domain	ision		40
Field name Shape OBJECTID Permanent_Identifier EventDate ReachCode	Data type Geometry Object ID String Date String	No Yes No	Default value	Domain Resolution	ision (0	40 8 14
Field name Shape OBJECTID Permanent_Identifier EventDate ReachCode ReachSMDate	Data type Geometry Object ID String Date String Date Long integer	No Yes No Yes		Resolution	0 0	0	40 8 14
Field name Shape OBJECTID Permanent_Identifier EventDate ReachCode ReachSMDate ReachResolution	Data type Geometry Object ID String Date String Date Long integer	No Yes No Yes No Yes No Yes			0 0	0	40 8 14 8
Field name Shape OBJECTID Permanent_Identifier EventDate ReachCode ReachSMDate ReachResolution Feature_Permanent_Identifier	Data type Geometry Object ID String Date String Date Long integer er String	No Yes No Yes No Yes Yes Yes Yes		Resolution	0 0	0	40 8 14 8 40
Field name Shape OBJECTID Permanent_Identifier EventDate ReachCode ReachSMDate ReachResolution Feature_Permanent_Identifier FeatureClassRef Source_Originator Source_DataDesc	Data type Geometry Object ID String Date String Date Long integer er String Long integer String String String	No Yes No Yes No Yes No Yes Yes Yes Yes		Resolution	0 0	0	40 8 14 8 40 130 100
Field name Shape OBJECTID Permanent_Identifier EventDate ReachCode ReachSMDate ReachResolution Feature_Permanent_Identifier FeatureClassRef Source_Originator Source_DataDesc Source_FeatureID	Data type Geometry Object ID String Date String Date Long integer er String Long integer String String String	No Yes No Yes No Yes No Yes Yes Yes Yes Yes		Resolution	0 0	0	40 8 14 8 40 130 100
Field name Shape OBJECTID Permanent_Identifier EventDate ReachCode ReachSMDate ReachResolution Feature_Permanent_Identifier FeatureClassRef Source_Originator Source_DataDesc Source_FeatureID FeatureDetailURL	Data type Geometry Object ID String Date String Date Long integer er String Long integer String String String String String	No Yes No Yes No Yes Yes Yes Yes Yes Yes		Resolution	0 0 0 0	0	40 8 14 8 40 130 100
Field name Shape OBJECTID Permanent_Identifier EventDate ReachCode ReachSMDate ReachResolution Feature_Permanent_Identifier Fource_Originator Source_DataDesc Source_FeatureID FeatureDetailURL Measure	Data type Geometry Object ID String Date String Date Long integer er String Long integer String String String String String Oouble	No Yes No Yes Yes Yes Yes Yes No No		Resolution	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	40 8 14 8 40 130 100
Field name Shape OBJECTID Permanent_Identifier EventDate ReachCode ReachSMDate ReachResolution Feature_Permanent_Identifier FeatureClassRef Source_Originator Source_DataDesc Source_FeatureID FeatureDetailURL Measure EventOffset	Data type Geometry Object ID String Date String Date Long integer er String Long integer String String String String String String Double Double	No Yes No Yes Yes Yes Yes Yes Yes No Yes		Resolution nt Feature Class Referenc	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0	40 8 14 8 40 130 100
Field name Shape OBJECTID Permanent_Identifier EventDate ReachCode ReachSMDate ReachResolution Feature_Permanent_Identifier Fource_Originator Source_DataDesc Source_FeatureID FeatureDetailURL Measure	Data type Geometry Object ID String Date String Date Long integer er String Long integer String String String String String Oouble	No Yes No Yes Yes Yes Yes Yes No No		Resolution	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0	40 8 14 8







and extends the capabilities of the NHD, and the WBD, and the National Elevation Dataset (NED) data, please visit:

http://www.epa.gov/waterdata/

11 Old reach to new reach 1P Old reach to part of new reach P1 Part of old reach to new reach A Add new reach D Delete old reach PP Part of old reach to part of new rea 1M historic) Old reach split to multiple new reache ReachFileVersion Domain Description Field type String Split policy Duplicate Merge policy Default value H002.00000 GEO High Resolution L002.00000 L002.00000 GEO Local Resolution M001.00000 M001.00000 (historic) FOD Medium Resolu H001.00000 H001.00000 (historic) FOD High Resolution L001.00000 L001.00000 (historic) FOD Low Resolutio

