

National Water Information System - Virginia Aquifer Codes

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Date Retrieved: USGS Water Data for the Nation Help System

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state_cd	aqfr_cd	aqfr_nm
2s	8s	70s
00	200CRSL	Crystalline Rocks
01	100CNZC	Cenozoic Erathem
01	110QRNR	Quaternary System
01	110QRRT	Quaternary-Tertiary Systems
01	111ALVM	Holocene Alluvium
01	111CSTL	Coastal Deposits
01	111HCPC	Holocene-Pleistocene Series
01	111HLCN	Holocene Series
01	111LTAV	Low Terrace Deposits, Alluvium
01	111RGLT	Regolith
01	111RSDM	Residuum
01	111SPRL	Saprolite
01	112HGTC	High Terrace Deposits
01	112IMTC	Intermediate Terrace Deposits
01	112LTRC	Low Terrace Deposits
01	112PLSC	Pleistocene Series
01	112TRRC	Terrace Deposits
01	120TRCC	Tertiary-Cretaceous Systems
01	120TRTR	Tertiary System
01	120UTRTR	Tertiary System
01	121CRNL	Citronelle Formation
01	121PLCN	Pliocene Series
01	122CTHL	Catahoula Sandstone
01	122CTHLS	Catahoula Sandstone
01	122MCEC	Miocene-Eocene Series
01	122MOCN	Miocene Series
01	122PHMK	Paynes Hammock Sand
01	122RSDM	Residuum-South Alabama
01	123BCTN	Bucatanna Clay Member of Byram Formation
01	123BYRM	Byram Formation
01	123CCKS	Chickasawhay Limestone
01	123FRHL	Forest Hill Sand
01	123GLND	Glendon Limestone Member of Byram Formation
01	123MRNN	Marianna Limestone
01	123OLGC	Oligocene Series
01	123RDBF	Red Bluff Clay
01	123VKBG	Vicksburg Group
01	124BLDG	Bells Landing Marl Member of Tuscaloosa Sand
01	124BSHI	Bashi Marl Member of Hatchetigbee Formation
01	124CLBR	Claiborne Group
01	124COCO	Cocoa Sand Member of Yazoo Clay
01	124EOCN	Eocene Series
01	124GGLG	Greggs Landing Marl Member of Tuscaloosa Sand
01	124GMPH	Grampian Hills Member of Nanafalia Formation
01	124GSPR	Gosport Sand
01	124GVCK	Gravel Creek Sand Member of Nanafalia Formation

01	124HCGB	Hatchetigbee Formation
01	124JCKS	Jackson Group
01	124LSBN	Lisbon Formation
01	124MDBC	Moody's Branch Formation
01	124MRDN	Meridian Sand Member of Tallahatta Formation
01	124NSHB	Neshoba Sand Member of Tallahatta Formation
01	124NTCK	North Twistwood Creek Member of Yazoo Clay
01	124OCAL	Ocala Limestone
01	124PCHT	Pachuta Marl Member of Yazoo Clay
01	124SHBT	Shubuta Member of Yazoo Clay
01	124TLLT	Tallahatta Formation
01	124WLCX	Wilcox Group
01	124WLCXG	Wilcox Group
01	124YZOO	Yazoo Clay
01	125CLBF	Coal Bluff Marl Member of Naheola Formation
01	125CLTN	Clayton Formation
01	125MCBD	Mc Bryde Limestone Member of Clayton Formation
01	125MDWY	Midway Group
01	125MLDG	Matthews Landing Marl Member of Porters Creek Clay
01	125NHOL	Naheola Formation
01	125NNFL	Nanafalia Formation
01	125OKHL	Oak Hill Member of Naheola Formation
01	125PLCN	Paleocene Series
01	125PNBR	Pine Barren Member of Clayton Formation
01	125PRCK	Porters Creek Clay
01	125SLMN	Salt Mountain Limestone
01	125TSCM	Tuscaloosa Sand
01	125WLCX	Wilcox Group
01	200MSZC	Mesozoic Erathem
01	210CCJC	Cretaceous-Jurassic Systems
01	210CRCS	Cretaceous System
01	211ARCL	Arcola Limestone Member of Mooreville Chalk
01	211BLFN	Blufftown Formation
01	211BLFP	Bluffport Marl Member of Demopolis Chalk
01	211COKR	Coker Formation
01	211CRCSU	Upper Cretaceous Series
01	211CSST	Cusseta Sand Member of Rirley Formation
01	211CUST	Cusseta Sand Member of Ripley Formation
01	211DMPL	Demopolis Chalk
01	211EMCS	Eutaw-Mc Shan Formations, Undifferentiated
01	211EOLN	Eoline Member
01	211EUTW	Eutaw Formation
01	211GORD	Gordo Formation
01	211MCSN	Mc Shan Formation
01	211MRVL	Mooreville Chalk
01	211MSSV	Massive Sand
01	211PBLF	Prairie Bluff Chalk
01	211PROT	Perote Member of Providence Sand
01	211PVDC	Providence Sand
01	211RPLY	Ripley Formation
01	211SELM	Selma Group
01	211SRGR	Stringer Sand
01	211TBGB	Tombigbee Sand Member of Eutaw Formation
01	211TSCL	Tuscaloosa Group

01	211TSCLL	Tuscaloosa Group, Lower
01	211TSCLM	Tuscaloosa Group, Middle
01	211TSCLU	Tuscaloosa Group, Upper
01	211TUCL	Tuscaloosa Group
01	211TUCLL	Tuscaloosa Group, Lower Member
01	211TUCLM	Tuscaloosa Group, Middle Member
01	211TUCLU	Tuscaloosa Group, Upper Member
01	217CRCSL	Lower Cretaceous Series
01	217VICK	Vick Formation
01	220JCTC	Jurassic-Triassic Systems
01	220JRSC	Jurassic System
01	230TCPM	Triassic-Permian Systems
01	230TRSC	Triassic System
01	300PLZC	Paleozoic Erathem
01	310PMPV	Permian-Pennsylvanian Systems
01	310PRMN	Permian System
01	320PRKD	Parkwood Formation
01	320PSLV	Pennsylvanian System
01	320PVMP	Pennsylvanian-Mississippian Systems
01	324PSLVL	Middle-Lower Pennsylvanian Series
01	324PSVL	Pottsville Formation
01	330MSSP	Mississippian System
01	331BNGR	Bangor Limestone
01	331FLYD	Floyd Shale
01	331HRSL	Hartselle Sandstone
01	331MNGL	Monteagle Limestone
01	331MSSPU	Mississippian, Upper
01	331PNNG	Pennington Formation
01	331PRDM	Pride Mountain Formation
01	331TCMB	Tuscumbia Limestone
01	337FRPN	Fort Payne Chert/formation
01	337MPDV	Mississippian-Devonian System
01	337MSSPL	Mississippian, Lower
01	337MURY	Maury Formation
01	340DVNM	Devonian System
01	340DVSL	Devonian-Silurian Systems
01	341CTNG	Chattanooga Shale
01	341DVNNU	Devonian, Upper
01	344DVNNM	Devonian, Middle
01	344DVSL	Devonian-Silurian Systems
01	344FRGM	Frog Mountain Sandstone
01	350RDMN	Red Mountain Formation
01	350SLRN	Silurian System
01	354WYNE	Wayne Group
01	357BFLD	Brassfield Limestone
01	360ODVC	Ordovician System
01	361FRVL	Fernvale Limestone
01	361INMN	Inman Formation
01	361LPRS	Leipers Limestone
01	361MNNI	Mannie Shale
01	361ODVCU	Ordovician, Upper
01	361SQTC	Sequatchie Formation
01	364ATNS	Athens Shale

01	364ATTL	Attalla Chert Conglomerate Member of Chickamauga
	Limestone	
01	364BGBC	Bigby and Cannon Limestones
01	364CKMG	Chickamauga Limestone
01	364CLVM	Colvin Mountain Sandstone
01	364CRRS	Carters Limestone
01	364CTYS	Catheys Limestone
01	364GEPR	Greensport Formation
01	364HRMG	Hermitage Formation
01	364LLOK	Little Oak Limestone
01	364LNOR	Lenoir Limestone
01	364NSVL	Nashville Group
01	364ODVCM	Ordovician, Middle
01	364SRVR	Stones River Group
01	367CPPC	Chepultepec Dolomite
01	367KNOX	Knox Group
01	367KNOXG	Knox Group
01	367LNGV	Longview Limestone
01	367NEWL	Newala Limestone
01	367ODVCL	Ordovician, Lower
01	367ODVL	Odenville Limestone
01	367OVCB	Ordovician-Cambrian Systems
01	370CBPB	Cambrian System-Precambrian Erathem
01	370CMBR	Cambrian System
01	371BIBB	Bibb Dolomite
01	371CMBRD	Upper-Middle Cambrian Series
01	371CMBRU	Cambrian, Upper
01	371CNSG	Conasauga Formation
01	371CPRG	Copper Ridge Dolomite
01	371KNOX	Knox Group
01	374BFLD	Brierfield Dolomite
01	374CMBRM	Cambrian, Middle
01	374CNSG	Conasauga Formation
01	374KTON	Ketona Dolomite
01	377CMBRL	Lower Cambrian Series
01	377ROME	Rome Formation
01	377SHDY	Shady Dolomite
01	377WESR	Weisner Quartzite
01	377WSNR	Weisner Quartzite
01	400PCMB	Precambrian Erathem
01	BASEMENT	Basement
01	BEDROCK	Bedrock
02	000MCRL	Mount Crillon Gabbro
02	000SELS	St Elias Schist
02	000UNNB	Union Bay Ultramafic Complex
02	100ILRK	Ilyirak Gravel
02	100NLJN	Nellie Juan Granite
02	100SGVK	Saligvik Gravel
02	100WLCV	Williwaw Cove Formation
02	110ARCP	Arch Point Basalt
02	110ASSK	Ashishik Basalt
02	110BCKP	Black Point Basalt
02	110BLDR	Buldir Volcanics
02	110BRRW	Barrow Unit, Gubik Formation

02	110BSPP	Bishop Point Volcanic Mudflow
02	110CHRT	Chariot Gravel
02	110CRCK	Crater Creek Basalt
02	110DSKN	Dushkin Basalt
02	110EDRP	Eider Point Basalt
02	110EGMB	Edgumbe Volcanics
02	110KNTN	Kanaton Basalts
02	110LLSK	Little Sitkin Dacite
02	110LPVF	Little Pavlof Agglomerate
02	110MDRV	Mead River Unit of Gubik Formation
02	110MEGB	Mount Edgumbe Ash Bed of Forest Creek Formation
02	110MEMS	Mount Emmons Volcanics
02	110MGRG	Mount Griggs Volcanics
02	110MNHG	Mount Hague Volcanics
02	110NJCK	New Jersey Creek Lava
02	110PCHN	Pochnoi Volcanics
02	110PRPN	Pratt Point Dacite Member, Little Sitkin Dacite
02	110PRSP	Patterson Point Formation
02	110PVFS	Pavlof Sisters Volcanics
02	110PVLV	Pavlof Volcanics
02	110QRNR	Quaternary System
02	110RDBL	Ready Bullion Formation
02	110RDHD	Round Head Basalts
02	110SGLF	Sugarloaf Lava Flows
02	110SKCF	Skull Cliff Unit, Gubik Formation
02	110SKNP	Sitkin Point Formation
02	110TLVK	Tlevak Basalt
02	110VLVB	Volcano Bay Basalt Flow of Mount Hague Volcanics
02	110WRGL	Wrangell Lava
02	110WSCV	West Cove Member, Little Sitkin Dacite
02	111ADMS	Adams Formation
02	111BERG	Berg Formation
02	111BKRP	Black Rapids Drift
02	111CHEN	Chena Alluvium
02	111CLCK	Clear Creek Drift
02	111CRQU	Cirque Drift
02	111DBLP	Double Point Dacite
02	111ENGR	Engineer Loess
02	111FNMN	Fan Mountain Drift
02	111FRBK	Fairbanks Loess
02	111FRCK	Forest Creek Formation
02	111FXHL	Fox Hill Flow
02	111GLCB	Glacier Bay Till
02	111JRVS	Jarvis Ash Bed of Engineer Loess
02	111KMRV	Katmai River Tuff Flow
02	111LSJM	Lost Jim Lava Flow
02	111MTRD	Mount Trident Andesite
02	111MUIR	Muir Till
02	111OKMK	Okmok Volcanics
02	111SLRV	Seal River Formation
02	111TNNL	Tunnel Drift
02	111TSMN	Tustumena Drift
02	111WLBR	Wilbur Ash Bed of Engineer Loess
02	111WRVR	White River Ash Bed of Engineer Loess

02	112ADGK	Adagdak Volcanics
02	112AKRK	Anayaknaurak Drift
02	112AKVK	Anaktuvuk River Drift
02	112ALEV	Antler Valley Drift
02	112ALPM	Alapah Mountain Drift
02	112ALVL	Antler Valley Drift
02	112ANAL	Anvil Formation
02	112ANDR	Andrew Volcanics
02	112ANUK	Anuk Sand
02	112AVKL	Anivak Lake Drift
02	112BDDM	Banded Mountain Drift
02	112BERG	Bering Formation
02	112BGCV	Bootlegger Cove Clay
02	112BKLK	Brooks Lake Drift
02	112BRLB	Bristol Bay Gravel
02	112BRNG	Bering Formation
02	112BRWN	Browne Drift
02	112CBHL	Caribou Hills Drift
02	112CGVN	Chagvan Drift
02	112CKIL	Cook Inlet Gravel
02	112CLCK	Clara Creek Drift
02	112CMBL	Chamberlin Drift
02	112CMLL	Camille Lava Flow
02	112CPRV	Copper River Gravel
02	112CRLO	Carlo Till
02	112CRPL	Cripple Gravel
02	112CRTR	Crater Creek Basalt
02	112CTNK	Chatanika Ash Bed of Goldstream Formation
02	112DELT	Delta Drift
02	112DELTD	Delta Drift
02	112DFDB	Driftwood Bay Lavas
02	112DGCK	Darling Creek Drift
02	112DNLI	Denali Drift
02	112DNLL	Donnelly Drift
02	112DONE	Dome Ash Bed of Gold Hill Loess
02	112DRCK	Dry Creek Drift
02	112DSNC	Dawson Cut Formation
02	112EGLK	Eight Lake Drift
02	112EKLN	Eklutna Drift
02	112ESTR	Ester Ash Bed of Gold Hill Loess
02	112EVA	Eva Formation
02	112FLCK	Fluorite Creek Gravel
02	112FLXM	Flaxman Formation
02	112FNTO	Faneto Formation
02	112FOX	Fox Gravel
02	112FRLL	Farewell Drift
02	112FRPK	Frosty Peak Volcanics
02	112GLDH	Gold Hill Loess
02	112GLDM	Goldstream Formation
02	112GRNC	Granite Canyon Till
02	112GSLG	Gosling Volcanics
02	112GUBK	Gubik Formation
02	112HELY	Healy Drift
02	112HMRV	Home River Drift

02	112IKLK	Itkillik Drift
02	112IMRK	Imuruk Volcanics
02	112IRCK	Iron Creek Drift
02	112JSHL	Johnston Hill Drift
02	112KBUK	Kobuk Drift
02	112KEMK	Kemuk Drift
02	112KMUK	Kemuk Drift
02	112KNIK	Knik Drift
02	112KNKK	Kanektok Gravels
02	112KOWK	Kowak Clay
02	112MCRB	Massacre Bay Formation
02	112MKHL	Mak Hill Drift
02	112MKSX	Makushin Volcanics
02	112MRZV	Morzhovoi Volcanics
02	112NMRV	Nome River Drift
02	112NNVK	Nunivak Flows
02	112NPTN	Naptowne Drift
02	112PTRS	Peters Drift
02	112RLCK	Riley Creek Drift
02	112SCRD	Schrader Drift
02	112SLFK	Slow Fork Drift
02	112SLTN	Selatna Drift
02	112SMLK	Salmon Lake Drift
02	112SRUK	Siruk Creek Drift
02	112SVKK	Sagavanirktok River Drift
02	112TANN	Tanana Formation
02	112TOGK	Togiak Gravels
02	112UNLK	Unaluk Drift
02	112VNHR	Van Horn Formation
02	112WLLR	Weller Drift
02	112YKTG	Yakataga Formation
02	120ADRB	Andrew Bay Volcanics
02	120AGTT	Agattu Beds
02	120AMCK	Amchitka Formation
02	120ATTU	Attu Formation
02	120BKFK	Belkofski Tuff
02	120BLUG	Beluga Formation
02	120BVDV	Beaverhead Valley Volcanics
02	120CCKL	Chickaloon Formation
02	120CDLV	Cathedral Valley Agglomerate
02	120CHPN	Chapin Bed
02	120CHTN	Chuitna Member of Tyonek Formation
02	120CKPN	Chitka Point Formation
02	120CKSK	Chuniksak Formation
02	120COPR	Cooper Bed of Kenai Formation
02	120CRKF	Chirikof Formation
02	120CRTS	Curtis Seam of Kenai Formation
02	120DKID	Duke Island Ultramafic Complex
02	120FGRB	Finger Bay Volcanics
02	120FRDK	Frederika Formation
02	120FRPL	Fairplay Syenite
02	120GKON	Gakona Formation
02	120GTMN	Getmuna Rhyolite Group
02	120HLKK	Holokuk Basalt

02	120HMCK	Hemlock Formation
02	120HRVR	Hayes River Beds
02	120JSVL	Jonesville Coal Group, Chickaloon Formation
02	120KENI	Kenai Formation
02	120KGRKG	Kougarok Gravel
02	120KGRKV	Kugruk Volcanics
02	120KKHB	Kiska Harbor Formation
02	120KLFP	Kirilof Point Unit, Amchitka Formation
02	120KRGL	Krugloi Formation
02	120MDGS	Middle Ground Shoal Member, Tyonek Formation
02	120NSGK	Nushagak Formation
02	120NUWK	Nuwok Formation
02	120NVKV	Nevidiskov Formation
02	120ORCA	Orca Group
02	120PLSD	Palisades Conglomerate
02	120RAT	Rat Formation
02	120SNDB	Sand Bay Volcanics
02	120SRLG	Sterling Formation
02	120SVKK	Sagavanirktok Formation
02	120TLVM	Twelvemile Beds
02	120TOK	Tok Sandstone
02	120TPSY	Topsy Formation
02	120TYNK	Tyonek Formation
02	120VGBY	Vega Bay Formation
02	120WFLD	West Foreland Formation
02	120ZRPN	Zeto Point Basalt Porphyry
02	121ABRM	Albert Rim Lavas
02	121NENN	Nenana Gravel
02	121NLRY	Nelroy Formation
02	121TCLN	Tachilni Formation
02	121TGDK	Tugidak Formation
02	121WTRB	Waterboot Basalt
02	122BEVR	Beaver Pluton
02	122BKFK	Belkofski Tuff
02	122BRLK	Bear Lake Formation
02	122CNTP	Cenotaph Volcanics
02	122CPNS	Captains Pluton
02	122GRBK	Grubstake Formation
02	122HLCK	Healy Creek Formation
02	122KTLL	Katalla Formation
02	122KTZN	Kootznahoo Formation
02	122LGCK	Lignite Creek Formation
02	122MSHK	Meshik Formation
02	122NRCP	Narrow Cape Formation
02	122PFFY	Puffy Member, Katalla Formation
02	122PLCK	Poul Creek Formation
02	122SHLR	Shaler Pluton
02	122SHMY	Shemya Intrusive Complex
02	122SNCR	Sanctuary Formation
02	122SNRN	Suntrana Formation
02	122ULSK	Unalaska Formation
02	122UNGA	Unga Conglomerate Member, Bear Lake Formation
02	123ADMI	Admiralty Island Volcanics
02	123BCRK	Basin Creek Member, Katalla Formation

02	123BLCK	Burls Creek Shale Member of Katalla Formation
02	123BNJP	Banjo Point Formation
02	123BVRB	Beaver Bay Group
02	123GRCV	Gunners Cove Formation
02	123KLTT	Kulthieth Formation
02	123KSTK	Kushtaka Formation
02	123PNTH	Point Hey Member, Katalla Formation
02	123RDWD	Redwood Formation
02	123SKDK	Sitkalidak Formation
02	123SKNK	Sitkinak Formation
02	123SPCK	Split Creek Sandstone Member, Katalla Formation
02	123SPVK	Stepovak Formation of Beaver Bay Group
02	123TKUM	Tokun Formation
02	123TSDK	Tsadaka Formation
02	124ADRL	Andrew Lake Formation
02	124BNDR	Boundary Granodiorite
02	124BNDRG	Boundary Granodiorite
02	124GRCK	Ghost Rocks Formation
02	124HYDR	Hyder Quartz Monzonite
02	124PRMR	Premier Coal Group, Chickaloon Formation
02	124SHAW	Shaw Coal Bed, Chickaloon Formation
02	124STLR	Stillwater Formation
02	124TLST	Tolstoi Formation of Beaver Bay Group
02	124WSBN	Wishbone Formation
02	125CNTL	Cantwell Formation
02	125DVID	David Coal Bed of Chickaloon Formation
02	125EMRY	Emery Coal Bed of Chickaloon Formation
02	125LLEK	Little Eska Coal of Chickaloon Formation
02	125MLND	Maitland Coal Bed of Chickaloon Formation
02	125MRTN	Martin Coal Bed of Chickaloon Formation
02	200AMCK	American Creek Granite
02	200APEX	Apex Vein
02	200ASER	Asses Ears Granite
02	200BDCK	Boulder Creek Quartz Monzonite
02	200CDRB	Cedar Bay Granite
02	200CPRM	Copper Mountain Amphibolite Schist
02	200ESMY	Eshamy Granite
02	200GKON	Gakona Diorite
02	200GMUK	Gemuk Group
02	200JDHB	Judd Harbor Dunite-Peridotite
02	200LDCK	Landslide Creek Granodiorite
02	200MCRS	Monte Christo Diorite
02	200MDFK	Middle Fork Granite
02	200SLCK	Slate Creek Granodiorite
02	200WFRK	West Fork Granodiorite
02	210BRCK	Brine Creek Formation
02	210BRTR	Brothers Volcanics
02	210GPCK	Gypsum Creek Quartz Monzonite
02	210HLCV	Hall Cove Peridotite
02	210HZLN	Hazleton Group
02	210JULN	Jualin Diorite
02	210KKKM	Kuskokwim Group
02	210KLCK	Klein Creek Batholith
02	210KLKN	Klukwan Magnetite Pyroxenite

02	210KLTG	Kaltag Formation
02	210KNPK	Kane Peak Ultramafic Complex
02	210KODK	Kodiak Formation
02	210MCHG	Mc Hugh Complex
02	210MCRK	Moonshine Creek Formation
02	210MLOZ	Melozi Formation
02	210NULT	Nulato Formation
02	210NZNM	Natzotin Mountain Series
02	210OKPK	Okpilak Granite
02	210RMZF	Romanzof Granite
02	210VLDZ	Valdez Group
02	211AKRG	Arkose Ridge Formation
02	211AYYK	Aiyiak Member, Seabee Formation
02	211BRTL	Barrow Trail Member, Schrader Bluff Formation
02	211CDLR	Chandler Formation
02	211CGNK	Chignik Formation
02	211CLVL	Colville Group
02	211CRWN	Corwin Formation
02	211HOOD	Hoodoo Formation
02	211IDRD	Iditarod Basalt
02	211KGKK	Kogosukruk Tongue, Prince Creek Formation
02	211KGYK	Kaguyak Formation
02	211KKKM	Kuskokwim Group
02	211MCRG	Mac Coll Ridge Formation
02	211NKGK	Niakogon Tongue, Chandler Formation
02	211NNLK	Ninuluk Formation
02	211NNSK	Nanushuk Group
02	211PCCK	Prince Creek Formation
02	211RGCK	Rogers Creek Member of Schrader Bluff Fm
02	211SCBF	Schrader Bluff Formation
02	211SCLZ	Schulze Formation
02	211SEBE	Seabee Formation
02	211SLHL	Sentinel Hill Member Schrader Bluff Formation
02	211SLWL	Shale Wall Member, Seabee Formation
02	211SMGN	Shumagin Formation
02	211TLVK	Tuluva Tongue, Prince Creek Formation
02	211UGLK	Ungalik Conglomerate
02	217BDRM	Biederman Argillite
02	217BKID	Blashke Islands Ultramafic Complex
02	217BZCK	Bonanza Creek Volcanics
02	217CHTT	Chititu Formation
02	217DGID	Douglas Island Volcanics
02	217FRRM	Fortress Mountain Formation
02	217GLNN	Glenn Shale
02	217GROD	Grandstand Formation
02	217HRND	Herendeen Limestone
02	217IPVK	Ipevik Formation
02	217KASN	Kasaan Greenstone
02	217KENN	Keenan Quartzite
02	217KKPK	Kukpowruk Formation
02	217KKRV	Kuparuk River Sandstone
02	217KLLK	Killik Tongue of Chandler Formation
02	217KMIK	Kemik Sandstone Member, Okpikruak Formation
02	217KMLK	Kisimilok Formation

02	217KNCT	Kennicott Formation
02	217KNDK	Kandik Formation
02	217KTHL	Kathul Graywacke
02	217KYKK	Koyukuk Group
02	217NLCN	Nelchina Limestone
02	217OGRK	Ogotoruk Formation
02	217OKKK	Okpikruak Formation
02	217OMLK	Oumalik Formation
02	217SITK	Sitka Graywacke
02	217SKVC	Staniukovich Formation
02	217SLTR	Shelter Formation
02	217SMCL	Seymour Canal Formation
02	217SPPG	Stephens Passage Group
02	217TKPK	Tingmerkpuk Formation
02	217TLVK	Telavirak Formation
02	217TORK	Torok Formation
02	217TPGK	Topagoruk Formation
02	217TRDL	Treadwell Formation
02	217TUKT	Tuktu Formation
02	217YKTK	Yakutat Group
02	220BCRK	Bitter Creek Formation
02	220KHAZ	Khaz Formation of Kelp Bay Group
02	220KLPB	Kelp Bay Group
02	220KNGK	Kingak Shale
02	220KTSN	Kotsina Conglomerate
02	220ORDG	Outlet Ridge Ultramafic Gabbro Complex
02	220TXCK	Texas Creek Granodiorite
02	220VETA	Veta Formation
02	221CHSK	Chisik Conglomerate Member of Naknek Formation
02	221CNTN	Chinitna Formation
02	221GVID	Gravina Island Formation
02	221NKKL	Naknek Lake Granite
02	221NKNK	Naknek Formation
02	221NZNM	Nizina Mountain Formation
02	221PMRY	Pomeroy Arkose Member, Naknek Formation
02	221PVLF	Paveloff Siltstone Member, Chinitna Formation
02	221RGLC	Root Glacier Formation
02	221SGHB	Snug Harbor Siltstone Member, Naknek Formation
02	221SLKF	Shelikof Formation
02	221TONN	Tonnie Siltstone Member, Chinitna Formation
02	224ALTS	Aleuts Member of Kialagvik Formation
02	224BLKP	Blankenship Formation
02	224BWSR	Bowser Formation of Tuxedni Group
02	224CNFL	Cynthia Falls Sandstone of Tuxedni Group
02	224FZCK	Fitz Creek Siltstone of Tuxedni Group
02	224GIKM	Gaikema Sandstone
02	224HZLN	Hazelton Group
02	224KGVK	Kialagvik Formation
02	224KLSH	Kolosh Member, Kialagvik Formation
02	224RDGC	Red Glacier Formation of Tuxedni Group
02	224TCRK	Twist Creek Siltstone of Tuxedni Group
02	224THNE	Thane Volcanic Group
02	224TICK	Twist Creek Siltstone of Tuxedni Group
02	224TRCK	Twist Creek Siltstone

02	224TRDL	Tordrillo Formation
02	224TXDN	Tuxedni Group
02	227BDRK	Bidarka Formation
02	227BKNM	Bokan Mountain Granite
02	227HRNM	Horn Mountain Tuff Member, Talkeetna Formation
02	227LBCK	Lubbe Creek Formation
02	227MCCR	Mc Carthy Formation
02	227MRCK	Marsh Creek Breccia Member, Talkeetna Formation
02	227PGCK	Portage Creek Agglomerate Member, Talkeetna Formation
02	227SGRV	Sag River Sandstone of Prudhoe Bay Group
02	227SKNN	Skwentna Group
02	227TKLN	Talkeetna Formation
02	230AMPR	Amphitheatre Basalt
02	230BLCV	Barlow Cove Formation
02	230GNDP	Goon Dip Greenstone
02	230GSTN	Gastineau Volcanic Group
02	230JACK	Jack Limestone
02	230PCPK	Pinnacle Peak Phyllite
02	230PRVC	Perseverance Slate
02	230SBK	Shublik Formation
02	230TLRM	Taylor Mountain Granodiorite
02	230UYAK	Uyak Formation
02	230WRFL	Waterfall Greenstone
02	230WSRP	Whitestripe Marble
02	231BILD	Burnt Island Conglomerate
02	231CPPK	Chapin Peak Formation
02	231CRLS	Cornwallis Limestone
02	231CTSN	Chitistone Limestone
02	231HDID	Hound Island Volcanics
02	231HMID	Hamilton Island Limestone
02	231HYD	Hyd Group
02	231KEKU	Keku Volcanics
02	231KMSK	Kamishak Formation
02	231KRCK	Karen Creek Sandstone
02	231KSKL	Kuskulana Formation
02	231NBSN	Nabesna Limestone
02	231NHNT	Nehenta Formation
02	231NIZN	Nizina Limestone
02	231NKOL	Nikolai Greenstone
02	237IVSK	Ivishak Member, Sadlerochit Formation
02	237SDLC	Sadlerochit Formation
02	300BDRK	Bedrock Undifferentiated
02	300CCMN	Cache Mountain Quartz Monzonite
02	300CDPG	Casadepaga Schist
02	300CHSN	Chisna Formation
02	300CLPK	Clark Peak Schist
02	300ESTR	Esther Granite
02	300KKRK	Katakturuk Dolomite
02	300KLTN	Klutina Group
02	300KNUT	Kanuti Group
02	300KVPK	Keevy Peak Formation
02	300NKOK	Nikoka Group
02	300NKPK	Neruokpuk Formation
02	300PPTS	Puppets Formation

02	300SPBY	Sheep Bay Granite
02	300WLES	Wales Group
02	300WMHB	William Henry Bay Marble
02	310CRCL	Circle Volcanics
02	310ECHK	Echooka Member, Sadlerochit Formation
02	310HCRK	Hasen Creek Formation
02	310MNKM	Mankomen Formation
02	310NUKA	Nuka Formation
02	310NUKN	Noukeen Formation
02	310PYBS	Pybus Formation
02	310SCRK	Station Creek Formation
02	310SKKK	Siksikpuk Formation
02	310SKOL	Skolai Group
02	310STEP	Step Conglomerate
02	310TKND	Tahkandit Limestone
02	317CNNR	Cannery Formation
02	317GKGC	Gulkana Glacier Formation
02	317GLDH	Golden Horn Limestone Lentil, Hasen Creek Formation
02	317HLCK	Halleck Formation
02	320ALPH	Alapah Limestone of Lisburne Group
02	320KGRK	Kogruk Formation of Lisburne Group
02	320LSBR	Lisburne Group
02	320NSRK	Nasorak Formation of Lisburne Group
02	320RCRK	Rainy Creek Basalt
02	320RMPR	Rampart Group
02	320RNBM	Rainbow Mountain Sequence
02	320SGNB	Saginaw Bay Formation
02	320TTLN	Tetelna Volcanics
02	320TUPK	Tupik Formation of Lisburne Group
02	320WCSM	Wachsmuth Limestone of Lisburne Group
02	320WHOO	Wahoo Limestone of Lisburne Group
02	324LDRS	Ladrones Limestone
02	327KLWK	Klawak Formation
02	330CCBF	Calico Bluff Formation of Endicott Group
02	330CCRK	Chute Creek Member of Totatlanika Schist
02	330CFCK	California Creek Member, Totatlanika Schist
02	330ECMN	Echo Mountain Formation
02	330ENDC	Endicott Group
02	330FDLK	Ford Lake Shale
02	330HFRK	Hunt Fork Shale of Endicott Group
02	330IKLK	Itkilyariak Formation
02	330IVGK	Iviagik Formation
02	330IYKN	Iyoukeen Formation
02	330KKKK	Kekiktuk Conglomerate
02	330KNYT	Kanayut Conglomerate of Endicott Group
02	330LVGD	Livengood Chert
02	330MCCK	Mystic Creek Member, Totatlanika Schist
02	330MCRK	Moose Creek Member, Totatlanika Schist
02	330SPCK	Sheep Creek Member, Totatlanika Schist
02	330SRLN	Strelna Formation
02	330TLNK	Totatlanika Schist
02	330WLSL	Wellesley Formation
02	331KAYK	Kayak Shale of Endicott Group
02	331PRVC	Peratrovich Formation

02	337CPTP	Cape Thompson Member of Nasorak Formation
02	337KPLK	Kapaloak Formation
02	337NOTK	Noatak Dandstone
02	337UTKK	Utukok Formation
02	340BIRD	Baird Group
02	340CDCV	Cedar Cove Formation
02	340CLCK	Cleary Creek Serpentinite
02	340ELI	Eli Limestone of Baird Group
02	340FRRB	Freshwater Bay Formation
02	340GMBR	Gambier Bay Formation
02	340HLTN	Holitna Group
02	340KLCK	Kennel Creek Limestone
02	340MCCH	Mc Cann Hill Chert
02	340MKDO	Mikado Phyllite
02	340RTRT	Retreat Group
02	340SJPI	St Joseph Island Volcanics
02	340SKJT	Skajit Limestone
02	340TGRH	Tigaraha Schist
02	340TLVN	Tolovana Limestone
02	340TNZN	Tonzona Group
02	340WDCP	Woodchopper Volcanics
02	341HDBY	Hood Bay Formation
02	341KGRK	Kugururok Formation
02	341NRVR	National River Formation
02	341PRFG	Port Refugio Formation
02	341STVR	Stuver Member, Kanayut Conglomerate
02	341WDLG	Wadeleigh Limestone
02	344AMDMB	Amy Dome Metabasalt
02	344AMDMD	Amy Dome Metadiorite
02	344AMDMP	Amy Dome Metaperidotite
02	344BLCP	Black Cap Limestone
02	344CRND	Coronados Volcanics
02	344NNOK	Nanook Limestone
02	344SLMR	Salmontrout Limestone
02	344TKTN	Takotna Formation
02	344VLNR	Vallenar Formation
02	347KRHN	Karheen Formation
02	347RDRV	Road River Formation
02	350ANNH	Anne He Pluton
02	350TTIN	Tatina Group
02	351BPLR	Bay of Pillars Formation
02	351HECT	Heceta Limestone
02	351KUIU	Kuiu Limestone
02	351PMPK	Pyramid Peak Limestone
02	351RNDU	Rendu Formation
02	351TIDL	Tidal Formation
02	351WLGB	Willoughby Limestone
02	357DSCN	Descon Formation
02	361JRDG	Jones Ridge Limestone
02	367FLCK	Fossil Creek Volcanics
02	367HLRD	Hillard Limestone
02	370SLMN	Solomon Schist
02	377ADMS	Adams Argillite
02	377FLCK	Funnel Creek Limestone

02	400FRML	Fortymile Granite
02	400HRRH	Hurrah Slate
02	400KGLK	Kigluaik Group
02	400NOME	Nome Group
02	400PKMM	Puckmummie Schist
02	400PLLY	Pelly Gneiss
02	400TNDR	Tindir Group
02	BASEMENT	Basement
02	BEDROCK	Bedrock
04	100VLFL	Valley Fill
04	104LCMV	Locomotive Fanglomerate, Mid-Cenozoic
04	104SLMK	Silmurk Formation, Mid-Cenozoic
04	110ALVM	Quaternary Alluvium
04	110QRNR	Quaternary System
04	110VLFL	Valley Fill
04	111ALVM	Holocene Alluvium
04	111HLCN	Holocene Series
04	111LKBP	Lakebeds and Playa Deposits
04	112ALVM	Alluvium, Older
04	112ALVMO	Alluvium, Older
04	112BLCF	Basaltic Flows
04	112BSFL	Basin Fill, Upper and Lower, Undifferentiated
04	112BSFLU	Basin Fill, Upper
04	112FOLL	Fort Lowell Formation, Pleistocene
04	112FRLL	Fort Lowell Formation, Pleistocene
04	112GLCC	Glacial Colluvium
04	112GLCL	Glacial Colluvium
04	112PLSC	Pleistocene Series
04	112SDGVU	Sand and Gravel, Upper
04	112TERC	Terrace (and Surficial) Deposits
04	112TRRC	Terrace (and Surficial) Deposits
04	120CDSM	Consolidated Sedimentary Rocks, Tertiary and Mesozoic
Undifferentiated		
04	120DTIL	Datil Formation
04	120FCVC	Felsic Volcanic Rocks
04	120IRSV	Intrusive Rocks
04	120MFCV	Mafic Volcanic Rocks
04	120MFFV	Mafic and Felsic Volcanic Rocks
04	120SDMR	Sedimentary Rocks
04	120TNJA	Tinaja Beds, Undifferentiated Tertiary (Pliocene-Miocene)
04	120TNJAU	Tinaja Beds, Upper Tertiary (Pliocene-Miocene)
04	120VLCC	Volcanic Rocks
04	121BDHC	Bidahochi Formation
04	121BDHCL	Bidahochi Formation, Lower
04	121BDHCM	Bidahochi Formation, Middle
04	121BDHCU	Bidahochi Formation, Upper
04	121BLCF	Basaltic Flows
04	121BOUS	Bouse Formation, Pliocene
04	121BSFLL	Basin Fill, Lower
04	121CHSK	Chuska Sandstone
04	121LBFM	Lower Basin Fill and Miocene Sedimentary Rocks,
Undifferentiated		
04	121MDCK	Muddy Creek Formation

04	121VERD	Verde Formation
04	122ARLR	Artillery Formation, Miocene
04	122BLAD	Basalt-Andisite Flows
04	122BOUS	Bouse Formation, Miocene
04	122CPWS	Chapin Wash Formation
04	122HSPG	Horse Spring, Miocene
04	122HULP	Hualapai Limestone
04	122PNTN	Pantano Formation, Miocene
04	122SDMR	Sedimentary Rocks
04	122TNJAL	Tinaja Beds, Lower Miocene
04	122VBAT	Volcanic Breccias, Agglomerates or Tuffs
04	122VLCC	Volcanic Rocks
04	123FFWT	Felsic Flows or Welded Tuffs
04	123HSPG	Horse Spring, Oligocene
04	123KDMR	Sedimentary Rocks
04	123MFCF	Mafic Flows
04	123PNTN	Pantano Formation, Oligocene
04	123VBAT	Volcanic Breccias, Agglomerates or Tuffs
04	123VLCC	Volcanic Rocks
04	124FCVC	Felsic Volcanic Rocks
04	124MFCV	Mafic Volcanic Rocks
04	124SDMR	Sedimentary Rocks
04	125NCMN	Nacimiento Formation
04	125OJAM	Ojo Alamo Sandstone
04	200FCIV	Felsic Intrusive Rocks
04	200FCVC	Felsic Volcanic Rocks
04	200MFCV	Mafic Volcanic Rocks
04	200MFIV	Mafic Intrusive Rocks
04	200SDMR	Sedimentary Rocks
04	200VLCC	Volcanic Rocks
04	211ALSN	Allison Member of Menefee Formation of Mesaverde Group
04	211BARB	Bartlett Barren Member of Crevasse Canyon Formation of Mesaverde Group
04	211BRLB	Bartlett Barren Member of Crevasse Canyon Formation of Mesaverde Group
04	211CLFH	Cliff House Sandstone of Mesaverde Group
04	211CLRY	Cleary Coal Member of Menefee Formation of Mesaverde Group
04	211CRVC	Crevasse Canyon Formation of Mesaverde Group
04	211DAKTS	Dakota Sandstone
04	211DKOT	Dakota Sandstone
04	211DLCO	Dilco Coal Member of Crevasse Canyon Formation of Mesaverde Group
04	211DLTN	Dalton Sandstone Member of Crevasse Canyon Formation of Mesaverde Grp
04	211FRLD	Fruitland Formation
04	211FRMG	Farmington Sandstone Member of Kirtland Shale
04	211GLLP	Gallup Sandstone
04	211HOST	Hosta Tongue of Point Lookout Sandstone of Mesaverde Group
04	211JLPZ	Juana Lopez Member of Mancos Shale
04	211KRLDU	Kirtland Shale, Upper Shale Member
04	211LWIS	Lewis Shale
04	211MENF	Menefee Formation

04	211MLTT	Mulatto Tongue of Mancos Shale
04	211MNCS	Mancos Shale
04	211PCCF	Pictured Cliffs Sandstone
04	211PNLK	Point Lookout Sandstone
04	211PSCD	Pescado Tongue of Mancos Shale
04	211SATN	Satan Tongue of Mancos Shale
04	211SDMR	Sedimentary Rocks, Undifferentiated
04	211TORV	Toreva Formation
04	211WEPO	Wepo Formation
04	211YLPN	Yale Point Sandstone
04	217BRCN	Burro Canyon Formation
04	220NAVJ	Navajo Sandstone
04	220NVJO	Navajo Sandstone
04	221BLFF	Bluff Sandstone
04	221BRSB	Brushy Basin Shale Member of Morrison Formation
04	221CAML	Carmel Formation
04	221CRML	Carmel Formation
04	221CSPG	Cow Springs Sandstone
04	221ENRD	Entrada Sandstone
04	221ENRDL	Entrada Sandstone, Lower
04	221ENRDM	Entrada Sandstone, Middle
04	221ENRDU	Entrada Sandstone, Upper
04	221MRSN	Morrison Formation
04	221RCPR	Recapture Shale Member of Morrison Formation
04	221SLWS	Salt Wash Sandstone Member of Morrison Formation
04	221SMVL	Summerville Formation
04	221SUMV	Summerville Formation
04	221TDLT	Todilto Limestone
04	221TODL	Todilto Limestone
04	221WSRC	Westwater Canyon Sandstone Member of Morrison Formation
04	230HSKN	Hoskinnini Member of Moenkopi Formation
04	230MNKP	Moenkopi Formation
04	231CCRK	Church Rock Member of Chinle Formation
04	231CHNL	Chinle Formation
04	231CORO	Correo Sandstone Bed of Petrified Forest Member of Chinle Formation
04	231CORR	Correo Sandstone Bed of Petrified Forest Member of Chinle Formation
04	231CSPG	Crane Spring Formation
04	231DSRC	Dinosaur Canyon Sandstone Member of Moenave Formation
04	231KYNT	Kayenta Formation
04	231LKCK	Lukachukai Member of Wingate Sandstone
04	231MNRB	Monitor Butte Member of Chinle Formation
04	231MOEV	Moenave Formation
04	231MONV	Moenave Formation
04	231MRDD	Mesa Redondo Member of Chinle Formation
04	231ORCK	Owl Rock Member of Chinle Formation
04	231PEFF	Petrified Forest Member, Undifferentiated, of Chinle Formation
04	231PFDF	Petrified Forest Member, Undifferentiated, of Chinle Formation
04	231PFDFL	Petrified Forest Member, Lower, of Chinle Formation
04	231PFDFU	Petrified Forest Member, Upper, of Chinle Formation
04	231RCKP	Rock Point Member of Wingate Sandstone

04	231SNSL	Sonsela Sandstone Bed of Petrified Forest Member of Chinle Formation
04	231SPGD	Springdale Sandstone Member of Moenave Formation
04	231SRMP	Shinarump Member of Chinle Formation
04	231WNGT	Wingate Sandstone
04	234HLBK	Holbrook Sandstone Member of Moenkopi Formation
04	237MOQU	Moqui Member of Moenkopi Formation
04	237WPTK	Wupatki Member of Moenkopi Formation
04	300LMSN	Limestone
04	300QRTZ	Quartzite
04	300SNDS	Sandstone
04	310ABO	Abo Formation
04	310CCNN	Coconino Sandstone
04	310CDRM	Cedar Mesa Sandstone Member of Cutler Formation
04	310CLVL	Callville Limestone (Permian-Pennsylvanian-Mississippian)
04	310COCN	Coconino Sandstone
04	310CTLR	Cutler Formation
04	310DCLL	De Chelly Sandstone
04	310DECL	De Chelly Sandstone
04	310GLRT	Glorieta Sandstone
04	310HLGT	Halgaito Tongue of Cutler Formation
04	310HRMT	Hermit Shale
04	310KIBB	Kaibab Limestone
04	310MBLC	Meseta Blanca Sandstone Member of Yeso Formation
04	310NACO	Naco Formation
04	310OARK	Organ Rock Tongue of Cutler Formation
04	310OGRK	Organ Rock Tongue of Cutler Formation
04	310PKON	Pakoon Limestone
04	310RICO	Rico Formation
04	310SCBH	Schnebly Hill Formation
04	310SUPI	Supai Formation
04	310SUPIL	Supai Formation, Lower
04	310SUPIM	Supai Formation, Middle
04	310SUPIU	Supai Formation, Upper
04	310SYDR	San Ysidro Member of Yeso Formation
04	310TRWP	Toroweap Formation
04	310YESO	Yeso Formation
04	313SADR	San Andres Limestone
04	317QNTF	Queantoweap Sandstone
04	319EPLD	Esplanade Sandstone
04	320HRMS	Hermosa Formation
04	320MOLS	Molas Formation
04	327SRPC	Suprise Canyon Formation
04	330RDLL	Redwall Limestone
04	340TMPB	Temple Butte Limestone, of Devonian Age
04	341MRTN	Martin Limestone
04	374BGAG	Bright Angel Shale
04	374MUAV	Muav Limestone
04	374TPTS	Tapeats Sandstone
04	400GRCG	Granitic Gneiss
04	400GRNT	Precambrian Granite
04	400SCST	Schist
04	400SDMR	Precambrian Sedimentary Rocks

04	BASEMENT	Basement
04	BEDROCK	Bedrock
05	100CNZC	Cenozoic Erathem
05	100RGLT	Regolith
05	110ALVM	Quaternary Alluvium
05	110QRNR	Quaternary System
05	110TRRC	Terrace Deposits
05	111ALVM	Holocene Alluvium
05	111HLCN	Holocene Series
05	111TRRC	Terrace Deposits
05	112ALVM	Alluvium
05	112MRVA	Mississippi River Valley Alluvial Aquifers
05	112MRVAA	Mississippi River Valley Alluvial Aquifers
05	112PLSC	Pleistocene Series
05	112PRARC	Pleistocene Prairie Complex
05	112PRIR	Pleistocene Prairie Complex
05	112TRRC	Terrace Deposits
05	112VLTR	Valley Trains, Pleistocene
05	120TRTR	Tertiary System
05	121PLCN	Pliocene Series
05	12405MP	500-foot Sand (Memphis Aquifer)
05	12414WX	1400-foot Sand (Lower Wilcox Aquifer)
05	124CCKF	Cockfield Formation of Claiborne Group
05	124CKMN	Cook Mountain Formation
05	124CLBR	Claiborne Group
05	124CRRZ	Carrizo Sand
05	124CRVR	Cane River Formation
05	124EOCN	Eocene Series
05	124JCKS	Jackson Group
05	124RDFD	Redfield Formation
05	124SPRT	Sparta Sand
05	124WBLF	White Bluff Formation
05	124WLCX	Wilcox Group
05	124WLCXG	Wilcox Group
05	125CLTN	Clayton Formation
05	125MDWY	Midway Group
05	125PLCN	Paleocene Series
05	125PRCK	Porters Creek Clay
05	200MSZC	Mesozoic Erathem
05	210CRCS	Cretaceous System
05	211AKDP	Arkadelphia Marl
05	211ANNN	Annona Chalk
05	211CRCSU	Upper Cretaceous Series
05	211MLBK	Marlbrook Marl
05	211NCTC	Nacatoch Sand
05	211NPLS	Nepheline Syenite
05	211SRTG	Saratoga Chalk
05	212BRNS	Brownstown Marl
05	212OZAN	Ozan Formation
05	212TOKO	Tokio Formation
05	212WDBN	Woodbine Formation
05	217CRCSL	Lower Cretaceous Series
05	217DLGT	Delight Sand
05	217DQUN	De Queen Limestone

05	217DRKS	Dierks Limestone
05	217PIKE	Pike Gravel
05	217ULMT	Ultima Thule Gravel Member of Holly Creek Formation
05	218GDLD	Goodland Limestone
05	218HLCK	Holly Creek Formation
05	218PLXY	Paluxy Sand
05	218TRNT	Trinity Group
05	220JRSC	Jurassic System
05	300PLZC	Paleozoic Erathem
05	320PSLV	Pennsylvanian System
05	325BGGY	Boggy Shale
05	325DSMS	Des Moinesian Series
05	325HRSR	Hartshorne Sandstone
05	325MCAL	McAlester Shale
05	325SVNN	Savanna Sandstone
05	326ATKN	Atokan Series
05	326ATOK	Atoka Formation
05	328BLVD	Bloyd Shale
05	328BLYD	Bloyd Shale
05	328BRND	Brentwood Limestone Member of Bloyd Shale
05	328BRTD	Brentwood Limestone Member of Bloyd Shale
05	328CNHL	Cane Hill Member of Hale Formation
05	328HALE	Hale Formation
05	328JKFK	Jackfork Sandstone
05	328JSVL	Johns Valley Shale
05	328KSLR	Kessler Limestone Member of Bloyd Shale
05	328MRRN	Morrowan Series
05	328MRRW	Morrowan Series
05	328PRGV	Prairie Grove Member of Hale Formation
05	328WLSY	Woolsey Sandstone Member of Bloyd Shale
05	330ARKS	Arkansas Novaculite
05	330BOON	Boone Formation
05	330CTNG	Chattanooga Shale
05	330HNTF	Hatton Tuff Lentil of Stanley Shale
05	330HSPG	Hot Springs Sandstone
05	330MSSP	Mississippian System
05	330STNL	Stanley Shale
05	331BSVL	Batesville Sandstone
05	331HDVL	Hindsville Limestone
05	331MFLD	Moorefield Formation
05	331MSSPU	Mississippian, Upper
05	331PTKN	Pitkin Limestone
05	331RDDL	Ruddell Shale
05	331WDNG	Wedington Sandstone Member of Fayetteville Shale
05	332FTVL	Fayetteville Shale
05	337MSSPL	Mississippian, Lower
05	337STJO	St Joe Limestone Member of Boone Formation
05	340DVNN	Devonian System
05	341DVNNU	Devonian, Upper
05	341SLMR	Sylamore Sandstone Member of Chattanooga Shale
05	341SYMR	Sylamore Sandstone Member of Chattanooga Shale
05	344CLFT	Clifty Limestone
05	344DVNNM	Devonian, Middle
05	347DVNNL	Devonian, Lower

05	347PNRS	Penters Chert
05	350BLCK	Blaylock Sandstone
05	350MSRM	Missouri Mountain Slate
05	350SCLR	St Clair Limestone
05	350SLRN	Silurian System
05	357BFLD	Brassfield Limestone
05	357LFRT	Lafferty Limestone
05	357SLRNL	Silurian, Lower
05	360ODVC	Ordovician System
05	361CSON	Cason Shale
05	361FRVL	Fernvale Limestone
05	361ODVCU	Ordovician, Upper
05	361PKCK	Polk Creek Shale
05	364BGFK	Bigfork Chert
05	364EVRN	Everton Formation
05	364JCHM	Joachim Dolomite
05	364KMCK	Kimmswick Limestone
05	364ODVCM	Ordovician, Middle
05	364PLTN	Plattin Limestone
05	364STPR	St Peter Sandstone
05	367BKRK	Black Rock Formation
05	367BLKL	Blakely Sandstone
05	367CRLM	Crystal Mountain Sandstone
05	367CTTR	Cotter Dolomite
05	367GNTR	Gunter Sandstone Member of Van Buren Formation
05	367GSCD	Gasconade Dolomite
05	367GUNR	Gunter Sandstone Member of Van Buren Formation
05	367MZRN	Mazarn Shale
05	367ODVCL	Ordovician, Lower
05	367RBDX	Roubidoux Formation
05	367SMVL	Smithville Formation
05	367VNBR	Van Buren Formation
05	367WMBL	Womble Shale
05	368JFRC	Jefferson City Dolomite
05	368PWLL	Powell Dolomite
05	370CLLR	Collier Shale
05	370CMBR	Cambrian System
05	371BNTR	Bonneterre Dolomite
05	371CMBRU	Cambrian, Upper
05	371DRBD	Derby-Doerun Formations
05	371DVIS	Davis Formation
05	371ELVS	Elvins Group
05	371EMNC	Eminence Dolomite
05	371LMTT	Lamotte Sandstone
05	371POTS	Potosi Dolomite
05	400IGNS	Precambrian Igneous Rocks
05	400PCMB	Precambrian Erathem
05	BASEMENT	Basement
05	BEDROCK	Bedrock
06	100CLDD	Consolidated Rocks
06	100CNTL	Cenezoic continental deposit
06	100CNZC	Cenozoic Erathem
06	100MRIN	Cenezoic marine deposits
06	100SCMV	Sacramento Valley Aquifer

06	100VLFL	Valley-Fill Deposits
06	110A	A-Clay
06	110ALVF	Alluvial Fan Deposits
06	110ALVM	Quaternary Alluvium
06	110MRIN	Quaternary marine deposits
06	110QRNR	Quaternary System
06	110VLFL	Valley Fill
06	1110008	80-foot Gravel
06	111A	A-Clay
06	111ALCR	Alluvium of the Coast Range (Pliocene-Holocene)
06	111ALCRY	Alluvium of the Coast Range, Younger (Pleistocene-Holocene)
06	111ALVF	Alluvial Fan Deposits
06	111ALVM	Holocene Alluvium
06	111ALVMO	Alluvium, Older
06	111ALVMY	Alluvium, Younger
06	111ATSE	Alluvium of the Tehachapi and San Emigdio Mountains
06	111ATSEY	Alluvium of the Tehachapi and San Emigdio Mts, Younger (Plei-Holo)
06	111AVSN	Alluvium of the Sierra Nevada
06	111AVSNY	Alluvium of the Sierra Nevada, Younger (Pleistocene-Holocene)
06	111B	B-Clay (Holocene-Pleistocene)
06	111BTVL	Butte Valley Basalt
06	111CLVM	Colluvium
06	111CNTL	Holocene continental deposits
06	111CSTL	Coastal Deposits
06	111D	D-Clay (Holocene-Pleistocene)
06	111DUNE	Dune Sand
06	111FLDB	Flood-Basin Deposits
06	111FVGC	Fluvioglacial Deposits
06	111GSPR	Gaspur Water-Bearing Zone
06	111HCPC	Holocene-Pleistocene Series
06	111HLCN	Holocene Series
06	111LCRM	Lacustrine and Marsh Deposits (Holocene-Pliocene)
06	111LDLD	Landslide Deposits
06	111LKBP	Lakebeds and Playa Deposits
06	111MJRV	Mojave River Channel Deposits
06	111MRNL	Morainal Deposits
06	111PLAY	Playa Deposits
06	111PLCV	Plutos Cave Basalt
06	111RSDM	Residium
06	111RVCL	River Channel Deposits
06	111RVTC	River Terrace Deposits
06	111SDLK	Sand, Lakeshore Deposits
06	111SLPN	Salt Pan
06	111TLBR	Talbert Water-Bearing Zone
06	111TRRC	Terrace Deposits
06	111VHGC	Volcanic Rocks of High Cascades
06	111WSKN	Whiskeytown Unconsolidated Deposits
06	112ALABE	Alluvium Above and Below E-Clay (Miocene-Pleistocene)
06	112ALAE	Alluvium Above E-Clay
06	112ALBEC	Alluvium Below E-Clay (Miocene-Pleistocene)
06	112ALVFO	Alluvial-Fan Deposits, Older

06	112ALVM	Alluvium
06	112ALVMO	Alluvium, Older
06	112ARMS	Aromas Red Sand
06	112ARSC	Arroyo Seco Gravel
06	112BCKK	Blackhawk Breccia
06	112BSFL	Basin Fill, Upper and Lower, Undifferentiated
06	112BSHP	Bishop Tuff
06	112BSLT	Basalt
06	112BTTR	Battery Formation
06	112C C-Clay	
06	112CASS	Cass Formation (Pleistocene-Pliocene)
06	112CBZN	Cabazon Fanglomerate
06	112CCHE	Cache Formation
06	112CNTC	Continental Terrace Deposits - Pleistocene
06	112CNTL	Continental Deposits (Pleistocene-Pliocene)
06	112CONL	Continental Deposits (Pleistocene-Pliocene)
06	112CRCR	Corcoran Clay Member of Tulare Formation
06	112CRLT	Carlotta Formation
06	112CSTS	Casitas Formation
06	112DPSP	Dripping Springs Formation
06	112ECC	E-Clay or Corcoran Clay Member of Tulare Formation
06	112F F-Clay (Pleistocene-Pliocene)	
06	112FROK	Fair Oaks Formation
06	112GLEL	Glen Ellen Formation
06	112HCHC	Huichica Formation
06	112HKTN	Hookton Formation
06	112LAKE	Lake Deposits
06	112LCSRO	Lacustrine Deposits, Older
06	112LHBR	La Habra Formation
06	112LKSR0	Lakeshore Deposits, Older
06	112LVRM	Livermore Gravel
06	112MDST	Modesto Formation - Pleistocene
06	112MLRN	Millerton Formation
06	112MNZM	Montezuma Formation
06	112MRCD	Merced Formation
06	112MRTC	Marine Terrace Deposits
06	112MXLK	Manix Lake Beds
06	112ORCT	Orcutt Formation
06	112PALA	Pala Conglomerate
06	112PAUB	Pauba Formation
06	112PCKD	Packwood Gravel
06	112PCPC	Pleistocene-Pliocene Series
06	112PLSC	Pleistocene Series
06	112PLVD	Palos Verdes Sand
06	112PRBL	Paso Robles Formation
06	112PUMC	Pumice Cones (Pleistocene-Pliocene)
06	112RVBK	Riverbank Formation - Pleistocene
06	112SBRB	Santa Barbara Formation
06	112SCLR	Santa Clara Formation
06	112SDDSO	Sand Dune Deposits, Older
06	112SDMS	San Dimas Formation
06	112SLIN	Saline Deposits
06	112SLVD	Silverado Water-Bearing Zone
06	112SNBN	San Benito Gravels

06	112SPDR	San Pedro Formation
06	112SUGS	Saugus Formation
06	112TKLK	Turlock Lake Formation - Pleistocene
06	112TLLK	Turlock Lake Formation - Pleistocene
06	112TMCL	Temecula Arkose
06	112TMSP	Timms Point Silt
06	112TUCRL	Tulare Formation, Lower
06	112TUCRU	Tulare Formation, Upper
06	112TULA	Tulare Formation
06	112TULR	Tulare Formation
06	112VCTR	Victor Formation
06	112VLCC	Volcanic Rocks
06	120CNNL	Continental Rocks
06	120CNTL	Continental Rocks
06	120MRIN	Marine Deposits
06	120SDMR	Sedimentary Rocks
06	120SVCC	Sedimentary Rocks of Volcanic Origin
06	120TRTR	Tertiary System
06	120VCWC	Volcanic Rocks, Western Cascades
06	120VLCC	Volcanic Rocks
06	121AVRD	Anaverde Formation
06	121BOUS	Bouse Formation, Pliocene
06	121BSFLL	Basin Fill, Lower
06	121CHNC	Chanac Formation
06	121CREG	Careaga Formation
06	121DURT	Duarte Conglomerate
06	121ECGN	Etchegoin Formation
06	121FOXN	Foxen Mudstone
06	121FRND	Fernando Formation
06	121HGVL	Hungry Valley Formation
06	121KRRV	Kern River Formation
06	121LAKE	Lake Deposits
06	121LBFM	Lower Basin Fill and Miocene Sedimentary Rocks,
Undifferentiated		
06	121LGUN	Laguna Formation
06	121LSMD	Los Medanos Formation
06	121LWLR	Lawlor Tuff
06	121MCOG	Miocene-Oligocene Series
06	121MLLD	Mulholland Formation
06	121MRTN	Merten Formation (Pliocene-Miocene)
06	121NGUL	Niguel Formation
06	121NMLK	Nomlaki Tuff Member of Tehama and Tuscan Formations
06	121ORND	Orinda Formation
06	121PCMC	Pliocene-Miocene Series
06	121PICOU	Pico Formation, Upper
06	121PLCN	Pliocene Series
06	121PNOL	Pinole Tuff
06	121PRSM	Purisima Formation
06	121PRSML	Purisima Formation, Lower Member
06	121PRSMM	Purisima Formation, Middle Member
06	121PRSMU	Purisima Formation, Upper Member
06	121PTLM	Petaluma Formation - Pliocene
06	121PUCB	Punchbowl Formation (Pliocene-Miocene)
06	121RCRD	Ricardo Formation (Pliocene-Miocene)

06	121SBVC	Sutter Buttes Volcanic Rocks
06	121SCRZ	Santa Cruz Mudstone
06	121SGRG	St George Formation
06	121SNDS	Sandstone, Unnamed
06	121SNJQ	San Joaquin Formation
06	121SNMT	San Mateo Formation
06	121SNTM	San Timoteo Beds
06	121SONM	Sonoma Volcanics
06	121SSQC	Sisquoc Formation
06	121TEHM	Tehama Formation
06	121TSCN	Tuscan Formation
06	122BENA	Bena Gravel
06	122BOUS	Bouse Formation, Miocene
06	122BPST	Bopesta Formation
06	122BRNS	Briones Sandstone
06	122CLRM	Claremont Shale
06	122CNTL	Continental Deposits
06	122CPSR	Capistrano Formation
06	122CRBO	Cierbo Sandstone
06	122EMDN	El Modena Volcanics
06	122ESCD	Escudo Sandstone
06	122FISS	Fiss Fanglomerate
06	122FRMJ	Freeman Silt-Jewett Sand
06	122GMHL	Gem Hill Formation
06	122HMBR	Hambre Formation
06	122ILMN	Ilmon Basalt
06	122LMPC	Lompico Sandstone
06	122LVID	La Vida Member of Puente Formation
06	122MCOG	Miocene-Oligocene Series
06	122MGNS	Meganos Formation
06	122MNTR	Monterey Shale
06	122MOCN	Miocene Series
06	122MODL	Modelo Formation
06	122NRLY	Neroly Formation
06	122OLCS	Olcese Sand
06	122ORSN	Oursan Formation
06	122PGML	Page Mill Basalt
06	122PLTO	Pleito Formation
06	122PMDH	Pyramid Hill Sand Member of Jewett Sand
06	122PNCR	Pancho Rico Formation - Miocene
06	122POTT	Potato Sandstone of Vaughn
06	122PUNT	Puente Formation
06	122QNSB	Quien Sabe Volcanics
06	122RFRG	Reef Ridge Shale
06	122RNDM	Round Mountain Silt
06	122RODO	Rodeo Shale
06	122SBRN	Sobranite Sandstone
06	122SCMC	Sycamore Canyon Member of Puente Formation
06	122SDMR	Sedimentary Rocks
06	122SESP	Sespe Formation
06	122SMLR	Simmler Formation
06	122SMRG	Santa Margarita Formation
06	122SNRM	San Ramon Sandstone
06	122SOFR	San Onofre Breccia

06	122SPBL	San Pablo Group
06	122SQUL	Soquel Member of Puente Formation
06	122TICE	Tice Formation
06	122TML	Temblor Formation
06	122TPNG	Topanga Formation
06	122TRPC	Tropico Group
06	122VDDR	Vedder Sands
06	122VLCC	Volcanic Rocks
06	122VQRS	Vaqueros Formation or Sandstone
06	122VSPG	Valley Springs Formation
06	122VSQZ	Vasquez Formation (Miocene-Oligocene)
06	122YORB	Yorba Member of Puente Formation
06	122ZYNT	Zayante Sandstone
06	123IGLS	Ingalls Formation
06	123KRKR	Kirker Tuff
06	123KRNG	Kreyenhagen Shale or Formation
06	123OGCE	Oligocene-Eocene Series
06	123OLGC	Oligocene Series
06	123PNCT	Pinecate Formation
06	123RDCK	Reeds Creek Andesite
06	123SJBS	San Juan Bautista Formation
06	123SLRZ	San Lorenzo Formation
06	123TSCN	Titus Canyon Formation
06	123TUMY	Tumey Formation
06	123WLND	Wheatland Formation
06	123WVVL	Weaverville Formation
06	124AVNL	Avenal Sandstone
06	124BUTN	Butano Sandstone
06	124CAPY	Capay Shale
06	124CZDL	Cozy Dell Formation
06	124DMNG	Domengine Sandstone
06	124ECPC	Eocene-Paleocene Series
06	124EOCN	Eocene Series
06	124FRCC	Franciscan Complex - Eocene, Cretaceous, Jurassic
06	124INDR	Indart Sandstone
06	124IONE	Ione Formation
06	124JOLL	La Jolla Formation
06	124LGSC	Laguna Seca Formation
06	124LMBR	Lambert Shale
06	124LODO	Lodo Formation
06	124MGCK	Montgomery Creek Formation
06	124MNDG	Mindego Basalt
06	124MRKL	Markley Formation
06	124NRVL	Nortonville Shale
06	124POWY	Poway Group
06	124SNTG	Santiago Formation
06	124TESL	Tesla Formation
06	124TJON	Tejon Formation
06	124TLMN	Tolman Formation
06	124TRCK	The Rocks Sandstone
06	124UMPQ	Umpqua Formation
06	124YKUT	Yokut Sandstone
06	125GOLX	Golex Formation
06	125LCTL	Locatelli Formation

06	125MRNZ	Martinez Formation
06	125PLCN	Paleocene Series
06	125SLVD	Silverado Formation
06	200BMCX	Basement Complex of Pretertiary Age
06	200MLMN	Mule Mountain Granite
06	200MSZC	Mesozoic Erathem
06	210BRRS	Berryessa Shale
06	210CCJC	Cretaceous-Jurassic Systems
06	210CHCO	Chico Formation
06	210CLDD	Consolidated Cretaceous Rocks Undivided
06	210CRCS	Cretaceous System
06	210LKVM	Lakeview Mountain Tonalite
06	210SCVG	Scott Valley Granodiorite
06	210SMRC	San Marcos Gabbro
06	210TRBC	Trabuco Formation
06	210WDSM	Woodson Mountain Granodiorite
06	211CHCO	Chico Formation
06	211CRCSU	Upper Cretaceous Series
06	211DLVL	Del Valle Formation
06	211DRVL	Deer Valley Sandstone
06	211JQRG	Joaquin Ridge Sandstone Member of Panoche Formation
06	211MRGD	Moreno Grande Formation
06	211MRLF	Marliff Shale
06	211OKLD	Oakland Conglomerate
06	211PGNP	Pigeon Point Formation
06	211PNCH	Panoche Formation
06	217CRCSL	Lower Cretaceous Series
06	217HRSN	Horsetown Formation
06	217NLSC	Niles Canyon Formation
06	217ONO	Ono Formation
06	217RCTR	Rector Formation
06	217SHST	Shasta Series
06	217SPUF	Serpentine and Ultramafic Rock Undivided
06	217SRPN	Serpentine
06	217WSNR	Wisenor Formation
06	220BDFC	Bedford Canyon Formation
06	220JRSC	Jurassic System
06	220SSBL	Shasta Bally Quartz Diorite
06	221JRSCD	Upper-Middle Jurassic Series
06	221JRSCU	Upper Jurassic Series
06	221MRPS	Mariposa Formation
06	221SVSP	Scott Valley Serpentine
06	224JRSCM	Middle Jurassic Series
06	227JRSCU	Lower Jurassic Series
06	230TRSC	Triassic System
06	300ABRM	Abrams Mica Schist
06	300CLVR	Calaveras Group
06	300CRBN	Carbonate Rocks
06	300MMPC	Metamorphic Rocks
06	300PLZC	Paleozoic Erathem
06	300SLMN	Salmon Hornblende Schist
06	310PRMN	Permian System
06	320PSLV	Pennsylvanian System
06	330BRGD	Bragdon Formation

06	330MSSP	Mississippian System
06	340CCLL	Chanchelulla Formation
06	340CPLY	Copley Greenstone
06	340DVNN	Devonian System
06	340SCVG	Scott Valley Greenstone
06	341DVNNU	Devonian, Upper
06	344BLKL	Balaklala Rhyolite
06	344DVNNM	Devonian, Middle
06	400PCMB	Precambrian Erathem
06	BASEMENT	Basement
06	BEDROCK	Bedrock
08	100CNZC	Cenozoic Erathem
08	100CZMZ	Cenozoic-Mesozoic Erathems
08	110QRNR	Quaternary System
08	111ALFP	Alluvium, Flood Plain
08	111ALVM	Holocene Alluvium
08	111AVMT	Alluvium and Terrace Deposits
08	111DUNE	Dune Sand
08	111HLCN	Holocene Series
08	111VLFL	Valley-Fill Deposits
08	112ALMS	Alamosa Formation
08	112GLCL	Glacial Deposits
08	112PLSC	Pleistocene Series
08	112SANF	Santa Fe Formation
08	112TERC	Terrace Deposits
08	120TRCC	Tertiary-Cretaceous Systems
08	120TRTR	Tertiary System
08	120VLCC	Volcanic Rocks
08	121DRUN	Dry Union Formation
08	121NRPK	North Park Formation
08	121OGLL	Ogallala Formation
08	121PCMC	Pliocene-Miocene Series
08	121PLCN	Pliocene Series
08	121SNTF	Santa Fe Formation
08	122ARKR	Arikaree Formation
08	122BRPK	Browns Park Formation
08	122MOCN	Miocene Series
08	123BRUL	Brule Formation of White River Group
08	123CDRN	Chadron Formation of White River Group
08	123CLRK	Castle Rock Conglomerate
08	123CRCK	Castle Rock Conglomerate
08	123OLGC	Oligocene Series
08	123WRVR	White River Formation
08	124CCHR	Cuchara Formation
08	124CLMN	Coalmont Formation
08	124DVLH	Devils Hole Formation
08	124DWSN	Dawson Arkose
08	124ECPC	Eocene-Paleocene Series
08	124EOCN	Eocene Series
08	124FRST	Farasita Conglomerate
08	124GRRV	Green River Formation
08	124HRFN	Huerfano Formation
08	124IRSV	Intrusive Rocks

08	124SJNM	San Jose and Nacimiento Formations, Undifferentiated
	(Eocene-Paleocen	
08	124SNJS	San Jose Formation
08	124WSTC	Wasatch Formation
08	125ANMS	Animas Formation (Paleocene-Upper Cretaceous)
08	125DNVR	Denver Formation
08	125FRUN	Fort Union Formation
08	125KRLD	Kirtland Shale
08	125MDPK	Middle Park Formation
08	125NCMN	Nacimiento Formation
08	125OJAM	Ojo Alamo Sandstone
08	125PLCN	Paleocene Series
08	125PSNC	Poison Canyon Formation
08	125RTON	Raton Formation
08	200MSZC	Mesozoic Erathem
08	200MZPZ	Mesozoic-Paleozoic Erathems
08	210CRCS	Cretaceous System
08	210DKOT	Dakota Sandstone or Formation or Group
08	211A A	Sandstone Member of Laramie Formation
08	211ARPH	Arapahoe Conglomerate Member of Laramie Formation
08	211BGCK	Bridge Creek Limestone Member of Greenhorn Limestone
08	211BLHL	Blue Hill Shale Member of Carlile Shale
08	211BLRM	B Sandstone Member of Larrimie Formation
08	211BNTN	Benton Shale
08	211CDLL	Codell Sandstone Member of Carlile Shale
08	211CLFH	Cliff House Sandstone of Mesaverde Group
08	211CRCSU	Upper Cretaceous Series
08	211CRLI	Carlile Shale
08	211FRHS	Fort Hays Limestone Member of Niobrara Formation
08	211FRLD	Fruitland Formation
08	211FRNR	Frontier Sandstone
08	211FROR	Frontier Sandstone
08	211FRPR	Fairport Chalky Shale Member of Carlile Shale
08	211FXHL	Fox Hills Formation
08	211GRNR	Greenhorn Formation
08	211GRRS	Graneros Shale
08	211HRLD	Hartland Shale Member of Greenhorn Limestone
08	211HYGN	Hygiene Sandstone Member of Pierre Shale
08	211ILES	Iles Formation
08	211LFXH	Laramie - Fox Hills Aquifer
08	211LNCE	Lance Formation
08	211LNCL	Lincoln Member of Greenhorn Limestone
08	211LRMI	Laramie Formation
08	211LRMR	Larimer Sandstone Member of Pierre Shale
08	211LWIS	Lewis Shale
08	211MCDM	Mcdermott Member of Animas Formation
08	211MENE	Menefee Formation of Mesaverde Group
08	211MENF	Menefee Formation of Mesaverde Group
08	211MLKN	Milliken Sandstone Member of Fox Hills Sandstone
08	211MNCS	Mancos Shale
08	211MVRD	Mesaverde Group
08	211NBRR	Niobrara Formation
08	211PCCF	Pictured Cliffs Sandstone
08	211PIRR	Pierre Shale

08	211PNLK	Point Lookout Sandstone Member of Mesaverde Group
08	211POLK	Point Lookout Sandstone Member of Mesaverde Group
08	211RCRD	Richard Sandstone Member of Pierre Shale
08	211RKRK	Rocky Ridge Sandstone Member of Pierre Shale
08	211SMKH	Smoky Hill Marl Member of Niobrara Formation
08	211SOKHN	Smoky Hill Marl Member of Niobrara Formation
08	211TRDD	Trinidad Sandstone
08	211TRNS	Transition Zone
08	211TRRY	Terry Sandstone Member of Pierre Shale
08	211VRMJ	Vermejo Formation
08	217BRCN	Burro Canyon Formation
08	217CRCSL	Lower Cretaceous Series
08	217CYNN	Cheyenne Sandstone Member of Purgatorie Formation
08	217KIOW	Kiowa Shale
08	217LYTL	Lytle Formation of Dakota Group
08	217MWRY	Mowry Shale
08	217PLNV	Plainview Sandstone Member of South Platte Formation
08	217PRGR	Purgatoire Formation
08	217STPL	South Platte Formation of Dakota Group
08	220GLNC	Glen Canyon Group
08	220JCTC	Jurassic-Triassic Systems
08	220JRSC	Jurassic System
08	220NVJO	Navajo Sandstone of Glen Canyon Group
08	221BRBS	Brushy Basin Shale Member of Morrison Formation
08	221CRTS	Curtis Formation of San Rafael Group
08	221ENRD	Entrada Sandstone
08	221JCK	Junction Creek Sandstone of San Rafael Group
08	221JRSCU	Upper Jurassic Series
08	221MOAB	Moab Member of Entrada Sandstone
08	221MRSN	Morrison Formation
08	221RCPR	Recapture Shale Member of Morrison Formation
08	221RLCK	Ralston Creek Formation
08	221SKRK	Slick Rock Member of Entrada Sandstone
08	221SLWS	Salt Wash Sandstone Member of Morrison Formation
08	221SMVL	Summerville Formation of San Rafael Group
08	221SRFL	San Rafael Group
08	221WSRC	Westwater Canyon Sandstone Member of Morrison Formation
08	224JRSCM	Middle Jurassic Series
08	227JRSC	Lower Jurassic Series
08	230LKNS	Lykins Formation
08	230TCPM	Triassic-Permian Systems
08	230TRSC	Triassic System
08	231CHNL	Chinle Formation of Dockum Group
08	231CINL	Chinle Formation of Dockum Group
08	231DCKM	Dockum Group
08	231JELM	Jelm Formation
08	231KAYN	Kayenta Formation of Glen Canyon Group
08	231KYNT	Kayenta Formation of Glen Canyon Group
08	231TRSCU	Upper Triassic Series
08	231WIGT	Wingate Sandstone of Glen Canyon Group
08	231WNGT	Wingate Sandstone of Glen Canyon Group
08	234TRSCM	Middle Triassic Series
08	237TRSC	Lower Triassic Series
08	300PLZC	Paleozoic Erathem

08	310CTLR	Cutler Formation
08	310LYNS	Lyons Formation
08	310PMPV	Permian-Pennsylvanian Systems
08	310PRMN	Permian System
08	310SGRC	Sangre De Cristo Formation
08	310STNK	Satanka Shale
08	310WBER	Weber Formation
08	311BGBS	Big Basin Formation
08	311PRMNU	Upper Permian Series
08	311TOLG	Taloga Formation of Cragin
08	317FNTN	Fountain Formation
08	317IGLD	Ingleside Formation
08	317MRON	Maroon Formation
08	317MROR	Maroon Formation
08	317PRMNL	Lower Permian Series
08	320PSLV	Pennsylvanian System
08	321PSLVU	Upper Pennsylvanian Series
08	324HRMS	Hermosa Formation
08	324MNRN	Minturn Formation
08	324PSLVM	Middle Pennsylvanian Series
08	327BLDN	Belden Formation
08	327PSLVL	Lower Pennsylvanian Series
08	330MSSP	Mississippian System
08	331LDVL	Leadville Limestone
08	331MDSN	Madison Group (Upper and Lower Mississippian)
08	331MSSPU	Mississippian, Upper
08	337MSSPL	Mississippian, Lower
08	340DVNN	Devonian System
08	341CHFF	Chaffee Formation
08	341DVNNU	Devonian, Upper
08	341PRTG	Parting Quartzite Member of Chaffee Formation
08	347DVNNL	Devonian, Lower
08	350SLRN	Silurian System
08	351SLRNU	Silurian, Upper
08	354SLRNM	Silurian, Middle
08	357SLRNL	Silurian, Lower
08	360ODVC	Ordovician System
08	361ODVCU	Ordovician, Upper
08	364ODVCM	Ordovician, Middle
08	367MNTU	Manitou Formation
08	367ODVCL	Ordovician, Lower
08	370CMBR	Cambrian System
08	371CMBRU	Cambrian, Upper
08	371SWCH	Sawatch Sandstone Formation
08	374CMBRM	Cambrian, Middle
08	377CMBRL	Lower Cambrian Series
08	400PCMB	Precambrian Erathem
08	400PCMBC	Precambrian Crystalline Rocks
08	BASEMENT	Basement
08	BEDROCK	Bedrock
09	110AVTN	Alluvium, Terrace, Non-Glacial
09	111ALVM	Holocene Alluvium
09	111SWMP	Swamp Deposits
09	112DFSF	Drift, Stratified

09	112SRFD	Stratified Deposits, Undifferentiated
09	112TILL	Till
09	231EBRL	East Berlin Formation
09	231HLYK	Holyoke Basalt
09	231HMPD	Hampden Basalt
09	231IGNSE	Igneous Extrusives
09	231IGNSI	Igneous Intrusives
09	231NHVN	New Haven Formation
09	231PRLD	Portland Formation
09	231SDMN	Sedimentary Bedrock
09	231SLMD	Shuttle Meadow Formation
09	231TLCT	Talcott Basalt
09	300CBCL	Carbonate Crystalline Bedrock
09	300CRSL	Crystalline Rocks, Undifferentiated
09	300NCBC	Non-Carbonate Crystalline Bedrock
09	400NCBC	Non-Carbonate Crystalline Bedrock
09	BASEMENT	Basement
09	BEDROCK	Bedrock
10	100CNZC	Cenozoic Erathem
10	110ALVM	Quaternary Alluvium
10	110QRNR	Quaternary System
10	111ALVL	Alluvial Deposits
10	111CPSP	Cypress Swamp Formation
10	111CRLB	Carolina Bay Deposits
10	111DUNE	Dune Deposits
10	111DUNED	Dune Deposits
10	111HCPC	Holocene-Pleistocene Series
10	111HLCN	Holocene Series
10	111MRSH	Marsh Deposits
10	111SPIT	Spit Deposits
10	111SRLN	Shoreline Deposits
10	111SWMP	Swamp Deposits
10	111UPBG	Upland Bog Deposits
10	111UPLD	Upland Deposits
10	112CLMB	Columbia Group
10	112DLBY	Delaware Bay Group
10	112LCHG	Lynch Heights Formation
10	112NTCK	Nanacoke Deposits
10	112OMAR	Omar Formation
10	112PCPC	Pleistocene-Pliocene Series
10	112PNSK	Pensauken Formation
10	112SCCR	Scotts Corners Formation
10	112SNVL	Staytonville Unit of Columbia Formation
10	120TRTR	Tertiary System
10	121BRDN	Brandywine Formation
10	121BRMR	Bryn Mawr Formation
10	121BRND	Brandywine Formation
10	121BVDM	Beaverdam Sand
10	121CSPK	Chesapeake Group
10	121PLCN	Pliocene Series
10	121YRKN	Yorktown Formation
10	122BTNY	Bethany Formation
10	122CLVR	Calvert Formation
10	122CPNK	Choptank Formation

10	122CSLD	Cheswold Aquifer
10	122CSPK	Chesapeake Group
10	122FDBG	Federalsburg Aquifer
10	122FRDC	Frederica Aquifer
10	122MLFD	Milford Aquifer
10	122MNKN	Manokin Aquifer
10	122MOCN	Miocene Series
10	122PCMK	Pocomoke Aquifer
10	122SMRS	St Marys Formation
10	123GLCN	Glaucinitic Unit
10	123OLGC	Oligocene Series
10	124DEAL	Deal Formation
10	124ECPC	Eocene-Paleocene Series
10	124EOCN	Eocene Series
10	124GLCN	Glaucinitic Unit
10	124MNSQ	Manasquan Formation
10	124NNJM	Nanjemoy Formation
10	124PMNK	Pamunkey Group
10	124PNPN	Piney Point Formation
10	124PPNJ	Piney Point-Nanjemoy Aquifer
10	124SAKR	Shark River Formation
10	124SKRV	Shark River Formation
10	125AQRC	Aquia and Rancocas Aquifer
10	125HRRS	Hornerstown Formation
10	125PLCN	Paleocene Series
10	125RCCS	Rancocas Formation
10	125VNCN	Vincentown Formation
10	200MSZC	Mesozoic Erathem
10	210CRCS	Cretaceous System
10	211CRCSU	Upper Cretaceous Series
10	211EGLS	Englishtown Formation
10	211MCVL	Merchantville Formation
10	211MGTY	Magothy Formation
10	211MLRL	Mount Laurel Sand
10	211MNMT	Monmouth Formation
10	211MRSL	Marshalltown Formation
10	211MTWN	Matawan Formation
10	211NVSX	Navesink Formation
10	211RRTN	Raritan Formation
10	217CRCSL	Lower Cretaceous Series
10	217NNMR	Nonmarine Cretaceous Aquifer
10	217PTMC	Potomac Formation
10	217PTMCL	Lower Potomac Formation
10	217PTMCM	Middle Potomac Formation
10	217PTMCU	Upper Potomac Formation
10	300CKV	Cockeysville Marble
10	300GLRM	Glenarm Series
10	300PLZC	Paleozoic Erathem
10	300PRDP	Port Deposit Gneiss
10	300WLMG	Wilmington Complex
10	300WSCK	Wissahickon Formation
10	BASEMENT	Basement
10	BEDROCK	Bedrock
11	100CNZC	Cenozoic Erathem

11	110ALVM	Quaternary Alluvium
11	110QRNR	Quaternary System
11	110TRRC	Terrace Deposits
11	111HCPC	Holocene-Pleistocene Series
11	111HLCN	Holocene Series
11	111LLND	Lowland Deposits
11	112PCPC	Pleistocene-Pliocene Series
11	112PLSC	Pleistocene Series
11	112PMLC	Pamlico Formation
11	112SDLD	Sunderland Formation
11	112UPLD	Upland Deposits
11	120TRTR	Tertiary System
11	121BRDN	Brandywine Formation
11	121BRMR	Bryn Mawr Gravel
11	121BRMRG	Bryn Mawr Gravel
11	121BRND	Brandywine Formation
11	121PLCN	Pliocene Series
11	122CLVR	Calvert Formation
11	122CSPK	Chesapeake Group
11	122MOCN	Miocene Series
11	210CRCS	Cretaceous System
11	217ARDL	Arundel Formation
11	217CRCSL	Lower Cretaceous Series
11	217POMC	Potomac Group
11	217PPSC	Patapsco Formation
11	217PTMC	Potomac Group
11	217PTXN	Patuxent Formation
11	300BLDR	Boulder Gneiss
11	300BOLD	Boulder Gneiss
11	300GRGN	Georgetown Mafic Complex
11	300LPELC	Lower Pelitic Schist
11	300LPLC	Lower Pelitic Schist
11	300PLZC	Paleozoic Erathem
11	377SKVL	Sykesville Formation
11	400GBGG	Granodiorite and Biotite Granite Gneiss
11	400KNSG	Kensington Quartz Diorite
11	BASEMENT	Basement
11	BEDROCK	Bedrock
12	100CNZC	Cenozoic Erathem
12	110NRSD	Nonartesian Sand Aquifer
12	110QRNR	Quaternary System
12	110SAQS	Surficial Aquifer System
12	111HCPC	Holocene-Pleistocene Series
12	111HLCN	Holocene Series
12	111LKFL	Lake Flirt Marl
12	111NRSD	Nonartesian Sand Aquifer
12	111TLME	Terrace Deposits, Lower, Marine and Estuarine
12	112ALDG	Ayers Landing Marl Member of Caloosahatchee Formation
12	112ANSS	Anastasia Formation
12	112BBRC	Bee Branch Member of Caloosahatchee Formation
12	112BRDN	Brandywine Formation
12	112BSCNN	Biscayne Limestone Aquifer
12	112BSCNS	Biscayne Sandy Limestone Aquifer

12	112CEMH	Coffee Mill Hammock Marl Member of Ft. Thompson Formation
12	112CLSC	Caloosahatchee Aquifer
12	112CLSCR	Caloosahatchee Formation
12	112COHR	Coharie Formation
12	112CQUN	Coquina Aquifer
12	112FDND	Fort Denaud Member of Caloosahatchee Formation
12	112FTMP	Fort Thompson Formation
12	112KLRG	Key Largo Limestone
12	112LBLL	La Belle Clay Member of Tamiami Formation
12	112LMSN	Limestone Aquifer
12	112MIMI	Miami Oolite
12	112MLBR	Melbourne Bed of Pamlico Formation
12	112NRSD	Nonartesian Sand Aquifer
12	112OKKC	Okaloakoochee Member of Ft. Thompson Formation
12	112PLSC	Pleistocene Series
12	112PMLC	Pamlico Formation
12	112PNLY	Penholoway Formation
12	112SAND	Sand Aquifer
12	112SANDA	Sand Aquifer
12	112SDGV	Sand and Gravel Aquifer
12	112SDGVA	Sand and Gravel Aquifer
12	112SDLD	Sunderland Formation
12	112SNDS	Sandstone Aquifer
12	112SVBF	Silver Bluff Formation
12	112TCMR	Terrace Deposits, Marine
12	112TLBT	Talbot Formation
12	112WCMC	Wicomico Formation
12	120FAQS	Floridan Aquifer System
12	120FLRD	Floridan Aquifer System
12	120FLRDL	Lower Floridan Aquifer
12	120FLRDU	Upper Floridan Aquifer
12	120NFSG	Northwestern Florida Sand-and-Gravel Aquifer
12	120NRSD	Nonartesian Sand Aquifer
12	120TRTR	Tertiary System
12	120UFAQ	Upper Floridan Aquifer
12	121ADHL	Alluvium and Deltaic Deposits, High Level
12	121ALVA	Alva Clay Member of Tamiami Formation
12	121BKGM	Buckingham Limestone of Tamiami Formation
12	121BYSR	Bay Shore Member of Tamiami Formation
12	121CRNL	Citronelle Formation
12	121DPLN	Duplin Marl
12	121IAQS	Intermediate Aquifer System
12	121LBLL	La Belle Formation
12	121MCKS	Murdock Station Member of Tamiami Formation
12	121OCHP	Ochopee Limestone Member of Tamiami Formation
12	121ORTN	Ortona Sand Member of Tamiami Formation
12	121PCPC	Pleistocene-Pliocene Series
12	121PLCN	Pliocene Series
12	121TMIM	Tamiami Formation
12	121TMIMN	Tamiami Formation, Limestone Aquifer
12	121TMIMR	Tamiami Formation, Shell-Marl Aquifer
12	122ALCH	Alachua Formation
12	122ALVA	Alva Clay Member of Tamiami Formation

12	122AMBF	Alum Bluff Group
12	122BKGM	Buckingham Limestone of Tamiami Formation
12	122BNVL	Bone Valley Formation
12	122BYSR	Bay Shore Member of Tamiami Formation
12	122CHPL	Chipola Formation
12	122CRLN	Charlton Formation
12	122CTTC	Chattahoochee Formation
12	122ECMB	Escambia Sand Member of Pensacola Clay
12	122FRPR	Fort Preston Formation
12	122HTRN	Hawthorn Formation
12	122HTRNN	Hawthorn Limestone Aquifer
12	122HTRNS	Hawthorn Sand and Gravel Aquifer
12	122ICGU	Intermediate Confining Unit
12	122JKBF	Jackson Bluff Formation
12	122LMSN	Limestone Aquifer
12	122MCKS	Murdock Station Member of Tamiami Formation
12	122MCSK	Miccosukee Formation
12	122MOCN	Miocene Series
12	122MOCNC	Miocene Coarse Clastics
12	122MOCNU	Upper Miocene Series
12	122OCHP	Ochopee Limestone Member of Tamiami Formation
12	122OKGV	Oak Grove Sand Member of Shoal River Formation
12	122ORTN	Ortona Sand Member of Tamiami Formation
12	122PCRS	Pinecrest Sand
12	122PSCL	Pensacola Clay
12	122PSCLL	Pensacola Clay, Lower Member
12	122PSCLU	Pensacola Clay, Upper Member
12	122RDBY	Red Bay Formation
12	122SDGV	Sand and Gravel Aquifer
12	122SLML	Shell-Marl Aquifer
12	122SLRV	Shoal River Formation
12	122SMRK	St. Marks Formation
12	122SNDS	Sandstone Aquifer
12	122TAMP	Tampa Limestone
12	122TMIM	Tamiami Formation
12	122TMIMN	Tamiami Formation, Limestone Aquifer
12	122TMIMR	Tamiami Formation, Shell-Marl Aquifer
12	122TRRY	Torrey Formation
12	122YLRV	Yellow River Formation
12	123BCTN	Bucatan Clay Member of Byram Formation
12	123BYRM	Byram Formation
12	123CKTP	Chickasawhay Limestone and Tampa Formation,
Undifferentiated		
12	123DCCC	Duncan Church Beds Member of Suwannee Limestone
12	123LMSN	Limestone Aquifer
12	123MRNN	Marianna Limestone
12	123OLGC	Oligocene Series
12	123SWNN	Suwannee Limestone
12	123VKBG	Vicksburg Group
12	124AVPK	Avon Park Limestone
12	124BSHI	Bashi Marl Member of Hatchetigbee Formation
12	124CLBR	Claiborne Group
12	124CLRV	Crystal River Formation
12	124EOCN	Eocene Series

12	124HCGB	Hatchetigbee Formation
12	124IGLS	Inglis Formation
12	124JCKS	Jackson Group
12	124LFAQ	Lower Floridan Aquifer
12	124LKCT	Lake City Limestone
12	124LSBN	Lisbon Formation
12	124MCGU	Middle Confining Unit
12	124OCAL	Ocala Limestone
12	124OCALG	Ocala Group
12	124OCALL	Ocala Limestone, Lower Member
12	124OCALN	Ocala Limestone
12	124OCALU	Ocala Limestone, Upper Member
12	124OLDM	Oldsmar Limestone
12	124OLDMN	Oldsmar Limestone Aquifer
12	124STNC	Steinhatchee Dolomite Member of Crystal River Formation
12	124TLLS	Tallahassee Limestone
12	124TLLT	Tallahatta Formation
12	124WLCX	Wilcox Group
12	124WLCXG	Wilcox Group
12	124WLSN	Williston Formation
12	125CDRK	Cedar Keys Limestone
12	125CDRKN	Cedar Keys Limestone Aquifer
12	125MDWY	Midway Formation
12	125MIDY	Midway Formation
12	125PLCN	Paleocene Series
12	125SFCU	Sub-Floridan Confining Unit
12	200MSZC	Mesozoic Erathem
12	210CCJC	Cretaceous-Jurassic Systems
12	210FPRC	Fort Pierce Formation
12	211AKNS	Atkinson Formation
12	211ASTN	Austin Group
12	211AUSN	Austin Group
12	211CDSD	Card Sound Dolomite
12	211CRCSU	Upper Cretaceous Series
12	211EUTW	Eutaw Formation
12	211LCRS	La Crosse Sandstone
12	211LWSN	Lawson Limestone
12	211NVR	Navarro Group
12	211PLOT	Pilot Sandstone Member of Tuscaloosa Formation
12	211SELM	Selma Group
12	211TALR	Taylor Group
12	211TSCL	Tuscaloosa Group
12	211TSCLL	Tuscaloosa Formation, Lower Member
12	211TSCLM	Tuscaloosa Formation, Middle Member
12	211TSCLS	Massive Sandstone Member of Lower Tuscaloosa Formation
12	211TSCLU	Tuscaloosa Formation, Upper Member
12	211TUCL	Tuscaloosa Group
12	211TYLR	Taylor Group
12	217BGCP	Big Cypress Group
12	217CRCSL	Lower Cretaceous Series
12	217DLRB	Dollar Bay Formation
12	217FKBG	Fredericksburg Group
12	217FRLK	Ferry Lake Anhydrite
12	217GLDS	Glades Group

12	217HSTN	Hosston Formation
12	217LKTF	Lake Trafford Formation
12	217NPLB	Naples Bay Group
12	217OCRf	Ocean Reef Group
12	217PGRD	Punta Gorda Anhydrite
12	217RDSS	Rodessa Formation
12	217SDGV	Sands and Gravels, Undifferentiated
12	217SNLD	Sunniland Limestone
12	217TRNT	Trinity Group
12	217TRNTL	Lower Trinity
12	217TRNTU	Upper Trinity
12	217WSHT	Washita Group
12	221CNVL	Cotton Valley Group
12	221COVL	Cotton Valley Group
12	221DNKM	Denkman Sandstone
12	221HSVL	Haynesville Formation
12	221JRSCU	Upper Jurassic Series
12	221LUNN	Louann Salt
12	221NOPL	Norphlet Sandstone
12	221NRPL	Norphlet Sandstone
12	221SMKV	Smackover Formation
12	221WERR	Werner Anhydrite
12	221WRNR	Werner Anhydrite
12	230BSLT	Basalt
12	230DIBS	Diabase
12	230RYLT	Rhyolite
12	230TRSC	Triassic System
12	230TUFF	Tuff
12	231NWRK	Newark Group
12	231TRSCU	Upper Triassic Series
12	300PLZC	Paleozoic Erathem
12	340DVNN	Devonian System
12	350SLRN	Silurian System
12	360ODVC	Ordovician System
12	367ODVCL	Ordovician, Lower
12	370CMBR	Cambrian System
12	400BCGR	Biotitic Granite
12	400GRNT	Precambrian Granite
12	400HBDD	Hornblende Diorite
12	400PCMB	Precambrian Erathem
12	BASEMENT	Basement
12	BEDROCK	Bedrock
13	110QRNR	Quaternary System
13	110SFCL	Surficial Aquifer
13	110SPRL	Saprolite
13	111ALVM	Holocene Alluvium
13	111HLCN	Holocene Series
13	112CLMB	Columbia Group
13	112PLSC	Pleistocene Series
13	120CNNL	Channel Sand
13	120FDDB	Floridan, Millers Pond, and Dublin Aquifers
	(Multiaquifer)	
13	120FDMP	Floridan, and Millers Pond Aquifers (Multiaquifer)

13	120FDMV	Floridan, Millers Pond, Dublin and Midville Aquifers
	(Multiaquifer)	
13	120FLRD	Floridan Aquifer System
13	120FLRDL	Lower Floridan Aquifer
13	120FLRDU	Upper Floridan Aquifer
13	120FRND	Lower Floridan Aquifer-Fernandina Permeable Zone
13	121CRLN	Charlton Formation
13	121DPLN	Duplin Marl
13	121PLCN	Pliocene Series
13	122AMBF	Alum Bluff Group
13	122BRCK	Brunswick Aquifer System
13	122BRCKL	Lower Brunswick Aquifer
13	122BRCKU	Upper Brunswick Aquifer
13	122HTRN	Hawthorn Formation
13	122MOCN	Miocene Series
13	122MOCNL	Lower Miocene
13	122MOCNM	Middle Miocene
13	122TAMP	Tampa Limestone
13	123BYRM	Byram Formation
13	123COPR	Cooper Marl
13	123FLRV	Flint River Formation
13	123MRNN	Marianna Limestone
13	123OLGC	Oligocene Series
13	123SWNN	Suwannee Limestone
13	123VKBG	Vicksburg Group
13	124AVPK	Avon Park Limestone
13	124BAKM	Black Mingo Group
13	124BKMG	Black Mingo Group
13	124BRNL	Barnwell Formation
13	124CCFD	Clinchfield Sand
13	124CLBR	Claiborne Group
13	124CNGR	Congaree Formation
13	124EOCN	Eocene Series
13	124FSBR	Fishburne Formation
13	124GDDB	Gordon, Millers Pond, and Dublin Aquifers (Multiaquifer)
13	124GDMP	Gordon and Millers Pond Aquifers (Multiaquifer)
13	124GDMV	Gordon, Millers Pond, Dublin and Midville Aquifers
	(Multiaquifer)	
13	124GRDN	Gordon Aquifer System
13	124HCGB	Hatchetigbee Formation
13	124IRNN	Irwinton Sandstone Member of Barnwell Formation
13	124JCKS	Jackson Group
13	124LKCT	Lake City Limestone
13	124LSBN	Lisbon Formation
13	124MCBN	Mc Bean Formation
13	124NNFL	Nanafalia Formation
13	124OCAL	Ocala Limestone
13	124OLDM	Oldsmar Limestone
13	124SDVL	Sandersville Limestone Member of Barnwell Formation
13	124SNTE	Santee Limestone
13	124TGGS	Twiggs Clay Member of Barnwell Formation
13	124TLLT	Tallahatta Formation
13	124TSCM	Tusahoma Formation
13	124UPTR	Upper Three Runs Aquifer

13	124WLCX	Wilcox Group
13	124WLCXG	Wilcox Group
13	124WLHL	Warley Hill Marl
13	125BKMG	Black Mingo Formation
13	125CDRK	Cedar Keys Formation
13	125CLTN	Clayton Formation
13	125DBLN	Dublin Aquifer System
13	125DBLNL	Dublin Aquifer System, Lower Aquifer
13	125DBLNU	Dublin Aquifer System, Upper Aquifer
13	125DBMV	Dublin-Midville Aquifer System
13	125ELNN	Ellenton Formation
13	125LNGS	Lang Syne Member of Rhems Formation
13	125MDWY	Midway Group
13	125MPDB	Millers Pond and Dublin Aquifers (Multiaquifer)
13	125MPMV	Millers Pond, Dublin, and Midville Aquifers
	(Multiaquifer)	
13	125MRBC	Meyers Branch Confining System
13	125MSPD	Millers Pond Aquifer
13	125PLCN	Paleocene Series
13	125PRCK	Porters Creek Clay
13	125RHMS	Rhems Formation
13	125SDLG	Sawdust Landing Member of Rhems Formation
13	125TMSI	Tamesi Equivalent
13	125WMBG	Williamsburg Formation
13	211AKNS	Atkinson Formation
13	211BKCK	Black Creek Formation
13	211BLFN	Blufftown Formation
13	211CPFR	Cape Fear Formation
13	211CRCSU	Upper Cretaceous Series
13	211CSST	Cusseta Sand
13	211EUTW	Eutaw Formation
13	211LWSN	Lawson Limestone
13	211MDDF	Middendorf Formation
13	211MDVL	Midville Aquifer System
13	211MDVLL	Midville Aquifer System, Lower Aquifer
13	211MDVLU	Midville Aquifer System, Upper Aquifer
13	211PEED	Peedee Formation
13	211PROT	Perote Member of Providence Sand
13	211PVDC	Providence Sand
13	211RPLY	Ripley Formation
13	211TSCL	Tuscaloosa Formation
13	211TSCLL	Tuscaloosa Formation, Lower Member
13	211TSCLM	Tuscaloosa Formation, Middle Member
13	211TSCLU	Tuscaloosa Formation, Upper Member
13	217CRCSL	Lower Cretaceous Series
13	218CMNC	Comanchean Series
13	230NWRK	Newark Group
13	300PLZC	Paleozoic Erathem
13	320CRSL	Crystalline Rocks
13	320PSLV	Pennsylvanian System
13	320TLDG	Talladega Formation
13	327CBOM	Crab Orchard Mountains Formation
13	327GZRD	Gizzard Formation

13	327NWTN	Newton Sandstone Member of Crab Orchard Mountains Formation
13	327RCNM	Raccoon Mountain Member of Gizzard Formation
13	327SEWN	Sewanee Member of Crab Orchard Mountains Formation
13	327SGLP	Signal Point Shale Member of Gizzard Formation
13	327SWNE	Sewanee Member of Crab Orchard Mountains Formation
13	327VDVR	Vandever Member of Crab Orchard Mountains Formation
13	327WRNP	Warren Point Sandstone Member of Gizzard Formation
13	327WTLL	Whitwell Shale Member of Crab Orchard Mountains Formation
13	331BNGR	Bangor Limestone
13	331FLYD	Floyd Shale
13	331GLCD	Golconda Formation
13	331HRSL	Hartselle Sandstone
13	331PNNG	Pennington Shale
13	331SGVV	Ste Genevieve Limestone
13	331STLS	St Louis Limestone
13	337FRPN	Fort Payne Chert/formation
13	337LVDR	Lavender Shale Member
13	337MURY	Maury Formation
13	344ARMC	Armuchee Chert
13	344FRGM	Frog Mountain Sandstone
13	345CTNG	Chattanooga Shale
13	350RDMN	Red Mountain Formation
13	361SQTC	Sequatchie Formation
13	364CKMG	Chickamauga Limestone
13	364RCKM	Rockmart Slate
13	367KNOX	Knox Dolomite or Group
13	367KNOXG	Knox Group
13	367NEWL	Newala Limestone
13	371CNSG	Conasauga Formation
13	371MDVL	Maynardville Limestone
13	374MRVL	Maryville Limestone
13	377ROME	Rome Formation
13	377SHDY	Shady Dolomite
13	377WSNR	Weisner Formation
13	400PCMB	Precambrian Erathem
13	BASEMENT	Basement
13	BEDROCK	Bedrock
15	100CLRB	Coralline Rubble Deposits
15	100CNZC	Cenozoic Erathem
15	100LMSN	Limestone
15	100VLCC	Volcanic Rocks
15	110KAU	Kau Volcanic Series, Undifferentiated
15	110PUNA	Puna Volcanic Series, Undifferentiated
15	110QRNR	Quaternary System
15	111AFCF	Artificial Fill
15	111ALVD	Alluvium and Landslide Deposits, Unconsolidated
15	111ALVM	Holocene Alluvium
15	111AVLD	Alluvial and Landslide Deposits, Unconsolidated
15	111BECH	Beach Deposits
15	111DUNC	Dune Sand, Calcareous, Unconsolidated
15	111DUNN	Dune Sand, Noncalcareous, Unconsolidated
15	111HLCN	Holocene Series

15	111HULLH	Hualalai Volcanic Series, Historic Volcanic Rocks
15	111HV75	Historic Volcanic Rocks (Lava Flows of 1750?)
15	111KUAV	Kau Volcanic Series, Historic Volcanic Rocks
15	111LKUC	Lake Deposit, Unconsolidated Calcareous Sand
15	111LPHHU	Laupahoehoe Volcanic Series, Lava Flows and Cinder of
Upper Member		
15	111PNCCH	Puna Volcanic Series, Historic Cinder Cones
15	111PNLCH	Puna Volcanic Series, Historic Littoral Cones
15	111PNLFH	Puna Volcanic Series, Historic Lava Flows
15	111UCCD	Unconsolidated Calcareous Dune Sand
15	112ALVM	Alluvium, Older
15	112ALVMO	Alluvium, Older
15	112ANON	Ainoni Volcanics
15	112AVLD	Alluvium and Landslid Deposits, Consolidated
15	112BCKP	Black Point Basalt
15	112BGFL	Big Falls Picritic Basalts, Hana Volcanic Series
15	112CCCM	Calcareous Marine Deposits (Limestone), Consolidated
15	112CDCC	Calcareous Deposits (Limestone), Consolidated
15	112CDDM	Marine Deposits (Limestone), Consolidated
15	112CSTL	Castle Volcanics
15	112DMHD	Diamond Head Tuff
15	112DUNC	Dune Sand, Calcareous, Consolidated
15	112FVPG	Fluvial, Periglacial, and Glacial Conglomerates
15	112HANA	Hana Volcanic Series, Undifferentiated
15	112HAWI	Hawi Volcanic Series, Undifferentiated
15	112HIKU	Haiku Volcanics
15	112HILN	Hilina Volcanic Series, Lava Flows
15	112HKCC	Hamakua Volcanic Series, Cinder Cones
15	112HKLF	Hamakua Volcanic Series, Lava Flows
15	112HLAC	Hualalai Volcanic Series, Prehistoric Ash and Cinder
Deposits		
15	112HLCC	Hualalai Volcanic Series, Prehistoric Cinder Cones
15	112HLLF	Hualalai Volcanic Series, Prehistoric Lava Flows
15	112HMKU	Hamakua Volcanic Series, Undifferentiated
15	112HNCC	Hana Volcanic Series, Cinder Cones
15	112HNDC	Hana Volcanic Series, Dike Compartments
15	112HNFF	Hana Volcanic Series, Firefountain Deposits of Ash and
Pumice		
15	112HNKV	Hana Volcanic Series, In Kipahulu Valley
15	112HNLF	Hana Volcanic Series, Lava Flows, Undifferentiated
15	112HNLL	Honolulu Volcanic Series, Undifferentiated
15	112HNWI	Hanawi Basaltic Andesite, Hana Volcanic Series
15	112HULL	Hualalai Volcanic Series, Prehistoric Volcanic Rocks,
Undifferentiated		
15	112HWCC	Hawi Volcanic Series, Cinder Cones
15	112HWDC	Hawi Volcanic Series, Dike Compartments
15	112HWLF	Hawi Volcanic Series, Lava Flows
15	112HWLO	Hawaiiloa Volcanics
15	112KAAU	Kaau Volcanics
15	112KENE	Keanae Basalt, Hana Volcanic Series
15	112KHCC	Kahuku Volcanic Series, Cinder Cones
15	112KHLC	Kahuku Volcanic Series, Littoral Cones
15	112KHLF	Kahuku Volcanic Series, Lava Flows
15	112KHUK	Kahuku Volcanic Series, Undifferentiated

15	112KIKI	Kiekie Volcanic Series, Undifferentiated
15	112KILF	Kiekie Volcanic Series, Lava Flows
15	112KITF	Kiekie Volcanic Series, Tuffaceous Deposits
15	112KKFF	Koko Volcanics, Firefountain Deposits
15	112KKLF	Koko Volcanics, Lava Flows
15	112KKTF	Koko Volcanics, Tuff Deposits
15	112KLCC	Kula Volcanic Series, Cinder Cones
15	112KLDC	Kula Volcanic Series, Dike Compartments
15	112KLIH	Kalihi Volcanics
15	112KLLF	Kula Volcanic Series, Lava Flows
15	112KLPP	Kalaupapa Basalt (Lava Flows)
15	112KLTF	Kula Volcanic Series, Tuff Deposits
15	112KMNK	Kamanaiki Basalt
15	112KMUK	Kaimuki Basalt
15	112KNOH	Kaneohe Volcanics
15	112KOAT	Koloa Volcanic Series, Ash and Tuffaceous Soil Beds
15	112KOCC	Koloa Volcanic Series, Cinder Cones
15	112KOKO	Koko Volcanics, Undifferentiated
15	112KOLF	Koloa Volcanic Series, Lava Flows
15	112KOLO	Koloa Volcanic Series, Undifferentiated
15	112KOTC	Koloa Volcanic Series, Tuff Cone At Kilauea Bay
15	112KPUL	Kapaula Basaltic Andesite, Hana Volcanic Series
15	112KUCC	Kau Volcanic Series, Prehistoric Cinder Cones
15	112KUHW	Kuhiwa Basaltic Andesite, Hana Volcanic Series
15	112KULA	Kula Volcanic Series, Undifferentiated
15	112KULC	Kau Volcanic Series, Prehistoric Littoral Cones
15	112KULF	Kau Volcanic Series, Prehistoric Lava Flows
15	112KUPO	Kaupo Mud Flow
15	112LGMP	Lagoon Deposits of Mana Plain
15	112LHIN	Lahaina Volcanic Series, Undifferentiated
15	112LNCC	Lahaina Volcanic Series, Cinder Cones
15	112LNLF	Lahaina Volcanic Series, Lava Flows
15	112LPAS	Laupahoehoe Volcanic Series, Ash Deposits
15	112LPCC	Laupahoehoe Volcanic Series, Lower Member, Cinder Cones
15	112LPHHL	Laupahoehoe Volcanic Series, Lower Member
Undifferentiated		
15	112LPLF	Laupahoehoe Volcanic Series, Lower Member, Lava Flows
15	112MKMN	Moku Manu Volcanics
15	112MKNO	Makaino Basaltic Andesite, Hana Volcanic Series
15	112MKPP	Makapipi Basalts, Hana Volcanic Series
15	112MKPU	Mokapu Basalt
15	112MKWO	Makawao Breccia
15	112MNWL	Maunawili Volcanics
15	112MOKL	Mokolea Basalt
15	112MSMN	Mossman Picritic Basalt, Hana Volcanic Series
15	112MUUM	Mauumae Volcanics
15	112NNOL	Ninole Volcanic Series
15	112NUUN	Nuuanu Volcanics
15	112OHIA	Ohia Basalt, Hana Volcanic Series
15	112PAHL	Pahala Ash
15	112PAKE	Paakea Basalt, Hana Volcanic Series
15	112PALI	Pali Volcanics
15	112PBLF	Punchbowl Volcanics, Lava Flows
15	112PBTf	Punchbowl Volcanics, Tuff Deposits

15	112PCBL	Punchbowl Volcanics, Undifferentiated
15	112PINU	Piinaau Basalt, Hana Volcanic Series
15	112PLCC	Pololu Volcanic Series, Cinder Cone
15	112PLCF	Pololu Volcanic Series, Crater-Filling Lava and Breccia
15	112PLDC	Pololu Volcanic Series, Dike Compartment
15	112PLIK	Palihea Formation, Koloa Volcanic Series
15	112PLLF	Pololu Volcanic Series, Lava Flows
15	112PLLU	Pololu Volcanic Series, Undifferentiated
15	112PLSC	Pleistocene Series
15	112PNAS	Puna Volcanic Series, Prehistoric Ash Deposits
15	112PNCC	Puna Volcanic Series, Prehistoric Cinder Cones
15	112PNLC	Puna Volcanic Series, Prehistoric Littoral Cones
15	112PNLF	Puna Volcanic Series, Prehistoric Lava Flows
15	112PUWL	Puuwalu Basalt, Hana Volcanic Series
15	112RCKH	Rocky Hill Volcanics
15	112SDMR	Sedimentary Deposits, Undifferentiated
15	112SLMA	Salt Lake-Makalapa-Aliamanu Tuff Deposits
15	112TGSC	Training School Volcanics
15	112TSGL	Tantalus-Sugar Loaf Volcanic Rocks, Undifferentiated
15	112TSLF	Tantalus-Sugar Loaf Volcanic Rocks, Firefountain
Deposits		
15	112TSLL	Tantalus-Sugar Loaf Volcanic Rocks, Lava Flows
15	112ULUP	Ulupau Tuff
15	112WAIK	Waiaaka Basaltic Andesite, Hana Volcanic Series
15	112WAWA	Waawaa Volcanics
15	112WKML	Waiokamilo Basalt, Hana Volcanic Series
15	112WLUN	Wailuanui Basalt, Hana Volcanic Series
15	120KILU	Kailua Volcanic Series, Undifferentiated
15	120KLBC	Koolau Volcanic Series, Breccia
15	120KLDK	Koolau Volcanic Series, Dike Complex
15	120KLLF	Koolau Volcanic Series, Lava Flows
15	120KLTF	Koolau Volcanic Series, Tuff
15	120KNPU	Kanapou Volcanic Series, Undifferentiated
15	120KOLU	Koolau Volcanic Series, Undifferentiated
15	120KPCF	Kanapou Volcanic Series, Caldera-Filling Volcanics
15	120KPEC	Kanapou Volcanic Series, Extra-Caldera Volcanics
15	120KUDK	Kailua Volcanic Series, Dike Complex
15	120KULF	Kailua Volcanic Series, Lava Flows
15	120TRTR	Tertiary System
15	120WINE	Waianae Volcanic Series, Undifferentiated
15	120WNBC	Waianae Volcanic Series, Breccia
15	120WNDK	Waianae Volcanic Series, Dike Complex
15	120WNLF	Waianae Volcanic Series, Lava Flows
15	120WNPY	Waianae Volcanic Series, Pyroclastic Deposits
15	121EMCCL	East Molokai Volcanic Series, Lower Member, Cinder Cones
15	121EMCCU	East Molokai Volcanic Series, Upper Member, Cinder Cones
15	121EMCD	East Molokai Volcanic Series, Caldera Complex
15	121EMDC	East Molokai Volcanic Series, Dike Compartment
15	121EMDMU	East Molokai Volcanic Series, Upper Member, Domes
15	121EMLFL	East Molokai Volcanic Series, Lower Member, Lava Flows
15	121EMLFU	East Molokai Volcanic Series, Upper Member, Lava Flows
15	121EMLK	East Molokai Volcanic Series, Undifferentiated
15	121HLCL	Honolua Volcanic Series, Cinder Cones and Lava Domes
15	121HLDC	Honolua Volcanic Series, Dike Compartments

15	121HLLF	Honolua Volcanic Series, Lava Flows
15	121HMDC	Honomanu Volcanic Series, Dike Compartments
15	121HMFC	Honomanu Volcanic Series, Firefountain and Cone Deposits
15	121HMLF	Honomanu Volcanic Series, Lava Flows
15	121HNLU	Honolua Volcanic Series, Undifferentiated
15	121HNMN	Honomanu Volcanic Series, Undifferentiated
15	121HUPU	Haupu Formation, Waimea Canyon Volcanic Series, Crater-Filling Lava
15	121LANI	Lanai Volcanic Series, Undifferentiated
15	121LNDC	Lanai Volcanic Series, Dike Compartments
15	121LNLF	Lanai Volcanic Series, Lava Flows
15	121MKUN	Mokuone Member of Makaweli Formation, Breccia and Conglomerate
15	121MKWL	Makaweli Formation, Waimea Canyon Volcanic Series, Lava Flows
15	121NPDC	Napali Formation, Dike Compartments, Waimea Canyon Volcanic Series
15	121NPLI	Napali Formation, Waimea Canyon Volcanic Series
15	121OLKL	Olokele Formation, Waimea Canyon Volcanic Series
15	121PLCN	Pliocene Series
15	121PNDC	Paniau Volcanic Series, Dike Compartments
15	121PNIU	Paniau Volcanic Series, Undifferentiated
15	121PNLF	Paniau Volcanic Series, Lava Flows
15	121WKCC	Wailuku Volcanic Series, Cinder Cones
15	121WKCD	Wailuku Volcanic Series, Dike Compartment (Not Part of Dike Complex)
15	121WKDK	Wailuku Volcanic Series, Dike Complex
15	121WKFF	Wailuku Volcanic Series, Firefountain Deposits of Tuff
15	121WKLF	Wailuku Volcanic Series, Lava Flows
15	121WKLK	Wailuku Volcanic Series, Lava Cones
15	121WKPC	Wailuku Volcanic Series, Pit Crater Deposits, Breccia and Conglomerate
15	121WLK	Wailuku Volcanic Series, Undifferentiated
15	121WMCC	West Molokai Volcanic Series, Basalt Cinder Cones
15	121WMCN	Waimea Canyon Volcanic Series, Undifferentiated
15	121WMDC	West Molokai Volcanic Series, Dike Compartment
15	121WMLF	West Molokai Volcanic Series, Basalt Lava Flows
15	121WMLK	West Molokai Volcanic Series, Undifferentiated
15	BASEMENT	Basement
15	BEDROCK	Bedrock
16	100CNZC	Cenozoic Erathem
16	100VLFL	Valley Fill
16	110ALVM	Quaternary Alluvium
16	110QRNR	Quaternary System
16	110SDMS	Sediments
16	110SKRV	Snake River Group
16	110TRVN	Travertine
16	110VLCC	Volcanic Rocks
16	111ALVM	Holocene Alluvium
16	111HLCN	Holocene Series
16	111TRRCY	Terrace Gravel, Younger
16	111TRVN	Travertine
16	112ALVM	Alluvium
16	112AMCF	American Falls Lake Beds

16	112BCKM	Black Mesa Gravel of Idaho Group
16	112BGHL	Big Hole Basalt of Snake River Group
16	112BPFV	Basalt of Portneuf Valley
16	112BRLY	Burley Lake Beds
16	112BRUN	Bruneau Formation
16	112BSPG	Bancroft Springs Basalt of Snake River Group
16	112CDRB	Cedar Butte Basalt
16	112CRSS	Crowsnest Gravel of Snake River Group
16	112FLRV	Falls River Basalt
16	112GLFR	Glenns Ferry Formation of Idaho Group
16	112GRRT	Gerrit Basalt
16	112HKBR	Huckleberry Ridge Tuff
16	112IDHO	Idaho Group
16	112LITL	Little Creek Formation
16	112LLCK	Little Creek Formation
16	112LVCK	Lava Creek Tuff
16	112MALD	Malad Member of Thousand Springs Basalt
16	112MCHD	Michaud Gravel
16	112MCKN	Mckinney Basalt of Snake River Group
16	112MDSN	Madison Basalt of Snake River Group
16	112MENN	Menan Tuff
16	112MEON	Melon Gravel of Snake River Group
16	112MFLS	Mesa Falls Tuff
16	112MNDK	Minidoka Basalt
16	112OTSH	Outwash
16	112PLSC	Pleistocene Series
16	112PLTU	Plateau Rhyolite
16	112PLUS	Palouse Formation
16	112RAFT	Raft Formation
16	112SGBL	Sugar Bowl Gravel of Snake River Group
16	112SNBM	Sunbeam Formation
16	112SSPG	Sand Springs Basalt of Snake River Group
16	112TRRCO	Terrace Gravel, Older
16	112TRVN	Travertine
16	112TSPG	Thousand Springs Basalt of Snake River Group
16	112TUAN	Tuana Gravel of Idaho Group
16	112WDGD	Wendell Grade Basalt of Snake River Group
16	112YLSN	Yellowstone Group
16	120SDMS	Sediments
16	120TRTR	Tertiary System
16	120VLCC	Volcanic Rocks
16	121BNBR	Banbury Formation Basalt of Idaho Group
16	121CGRP	Cougar Point Welded Tuff
16	121CLKH	Chalk Hills Formation of Idaho Group
16	121DNKY	Donkey Fanglomerate
16	121EGRK	Eagle Rock Tuff
16	121HGRM	Hagerman Lake Beds
16	121IDVD	Idavade Volcanics
16	121MSCR	Massacre Volcanics
16	121NELY	Neeley Formation
16	121PCRK	Poison Creek Formation of Idaho Group
16	121PLCN	Pliocene Series
16	121PYTT	Payette Formation
16	121RCKV	Rockland Valley Basalt

16	121SLLK	Salt Lake Formation
16	121SRLG	Starlight Formation
16	121WLCT	Walcott Tuff
16	122CBRV	Columbia River Basalt Group
16	122GRMR	Germer Tuffaceous Member of Challis Volcanics
16	122LATH	Latah Formation
16	122MOCN	Miocene Series
16	122OWYH	Owyhee Basalt
16	122SCCK	Succor Creek Formation
16	122YKFK	Yankee Fork Rhyolite Member of Challis Volcanics
16	123CHLS	Challis Volcanics
16	123OLGC	Oligocene Series
16	124EOCN	Eocene Series
16	124WSTC	Wasatch Formation
16	125PLCN	Paleocene Series
16	200MSZC	Mesozoic Erathem
16	210BYVW	Bayview Granodiorite
16	210CRCS	Cretaceous System
16	210GRCK	Granite Creek Granodiorite
16	210GRNC	Granitic Rocks
16	210PCKM	Packsaddle Mountain Granodiorite
16	210TYGE	Tygee Sandstone of Gannett Group
16	211CRCSU	Upper Cretaceous Series
16	211FRNR	Frontier Sandstone
16	211FROR	Frontier Sandstone
16	211IDAH	Idaho Batholith
16	211WAYN	Wayan Formation
16	217ASPN	Aspen Shale
16	217BCLR	Bechler Formation of Gannett Group
16	217BRRV	Bear River Formation
16	217CRCSL	Lower Cretaceous Series
16	217DRNY	Draney Limestone of Gannett Group
16	217EPRM	Ephraim Conglomerate of Gannett Group
16	217GNNT	Gannett Group
16	217HOMR	Homer Limestone Member of Wayan Formation
16	217KOTN	Kootenai Formation
16	217PRSN	Peterson Limestone of Gannett Group
16	217TMPL	Thermopolis Shale
16	220JRSC	Jurassic System
16	221JRSCU	Upper Jurassic Series
16	221LDCK	Leeds Creek Member of Twin Creek Limestone
16	221MRRS	Morrison Formation
16	221PRSS	Preuss Sandstone or Redbeds
16	221STMP	Stump Sandstone
16	221TCRK	Twin Creek Limestone or Formation
16	221WLVC	Wolverine Canyon Limestone Member of Preuss Sandstone
16	221WNCN	Watton Canyon Member of Twin Creek Limestone
16	224BDRG	Boundary Ridge Member of Twin Creek Limestone
16	224ELLS	Ellis Group
16	224GFCK	Giraffe Creek Member of Twin Creek Limestone
16	224JRSCM	Middle Jurassic Series
16	224RICH	Rich Member of Twin Creek Limestone
16	224SDCK	Sliderock Member of Twin Creek Limestone
16	227JRSCL	Lower Jurassic Series

16	227NGGT	Nugget Sandstone
16	230HGHM	Higham Grit
16	230LNES	Lanes Tongue of Ankareh Formation
16	230TRSC	Triassic System
16	231AKAR	Ankareh Formation
16	231ANKR	Ankareh Formation
16	231DDMN	Deadman Limestone
16	231LULL	Lucile Slate
16	231SVDV	Seven Devils Volcanics
16	231TRSCU	Upper Triassic Series
16	231WOOD	Wood Shale Tongue of Ankareh Formation
16	234TRSCM	Middle Triassic Series
16	237DNDY	Dinwoody Formation
16	237FRHL	Fort Hall Formation of Thaynes Group
16	237PRNF	Portneuf Limestone Member of Thaynes Group
16	237RFRK	Ross Fork Limestone of Thaynes Group
16	237TMTY	Timothy Sandstone
16	237TRSCL	Lower Triassic Series
16	237TYNS	Thaynes Limestone, Formation or Group
16	237WDSO	Woodside Formation, Siltstone and/or Redbeds
16	300BGCK	Berg Creek Amphibolite of Riggins Group
16	300CLSC	Clastic Rocks
16	300CRBN	Carbonate Rocks
16	300FDCK	Fiddle Creek Schist of Riggins Group
16	300LGCK	Lightning Creek Schist of Riggins Group
16	300PLZC	Paleozoic Erathem
16	300RGNS	Riggins Group
16	300RMRG	Ramey Ridge Complex
16	300SQCK	Squaw Creek Schist of Riggins Group
16	310FRNS	Franson Member or Tongue of Park City Formation
16	310GPKC	Grandeur Member or Tongue of Park City Formation
16	310GRADT	Grandeur Member or Tongue of Park City Formation
16	310GRDR	Grandeur Member or Tongue of Park City Formation
16	310MDPK	Meade Peak Phosphatic Shale Member or Tongue of
		Phosphoria Formation
16	310PRKC	Park City Formation or Group
16	310PRMN	Permian System
16	310PSPR	Phosphoria Formation
16	310REX	Rex Chert Member of Phosphoria Formation
16	310RPHP	Retort Phosphatic Shale Member or Tongue of Phosphoria
		Formation
16	310RTRT	Retort Phosphatic Shale Member or Tongue of Phosphoria
		Formation
16	310RXPP	Rex Chert Member of Phosphoria Formation
16	310SDRN	Shedhorn Sandstone
16	310WDRV	Wood River Formation
16	310WLLS	Wells Formation
16	311PRMNU	Upper Permian Series
16	317OQRR	Oquirrh Group
16	317PRMNL	Lower Permian Series
16	320AMSD	Amsden Formation
16	320PSLV	Pennsylvanian System
16	320QDRN	Quadrant Sandstone
16	320QUDR	Quadrant Sandstone

16	321PSLVU	Upper Pennsylvanian Series
16	324PSLVM	Middle Pennsylvanian Series
16	327PSLVL	Lower Pennsylvanian Series
16	330BRZR	Brazer Limestone or Dolomite
16	330DPCK	Deep Creek Formation
16	330MLGN	Milligen Formation
16	330MSSP	Mississippian System
16	331CFRG	Chesterfield Range Group
16	331GRBL	Great Blue Limestone or Formation
16	331LLFL	Little Flat Formation of Chesterfield Range Group
16	331MDSN	Madison Group (Upper and Lower Mississippian)
16	331MNRC	Monroe Canyon Limestone of Chesterfield Range Group
16	331MSNC	Mission Canyon Limestone
16	331MSSPU	Mississippian, Upper
16	331WKNB	White Knob Limestone
16	337LDGP	Lodgepole Limestone of Madison Group
16	337MSSPL	Mississippian, Lower
16	340DVNN	Devonian System
16	341DRBY	Darby Formation
16	341DVNNU	Devonian, Upper
16	341GRDV	Grand View Dolomite
16	341TRFK	Three Forks Shale
16	344DVNNM	Devonian, Middle
16	344JFFR	Jefferson Formation
16	347DVNNL	Devonian, Lower
16	350SLRN	Silurian System
16	350TLCK	Trial Creek Formation
16	351SLRNU	Silurian, Upper
16	354SLRNM	Silurian, Middle
16	357SLRNL	Silurian, Lower
16	360ODVC	Ordovician System
16	361BGRN	Bighorn Dolomite
16	361FSHV	Fish Haven Dolomite
16	361ODVCU	Ordovician, Upper
16	361SRDM	Saturday Mountain Formation
16	364GRDC	Garden City Formation
16	364ODVCM	Ordovician, Middle
16	367ODVCL	Ordovician, Lower
16	367PKPP	Phi Kappa Formation
16	367RMSR	Ramshorn Slate
16	370BYRS	Bayhorse Dolomite
16	370CMBR	Cambrian System
16	370GDCK	Garden Creek Phyllite
16	371CMBRU	Cambrian, Upper
16	371GALN	Gallatin Limestone
16	371GLTN	Gallatin Limestone
16	371GRVK	Grove Creek Limestone Member of Snowy Range Formation
16	371NUNN	Nounan Limestone
16	371PLGM	Pilgrim Limestone
16	371SCRL	St Charles Limestone
16	371SNRG	Snowy Range Formation
16	371WMCK	Worm Creek Quartzite Member of St Charles Limestone
16	374BLMG	Bloomington Formation
16	374BRGM	Brigham Quartzite

16	374CMBRM	Cambrian, Middle
16	374FLAD	Flathead Limestone
16	374FLTD	Flathead Limestone
16	374GDCK	Gold Creek Quartzite
16	374GRVR	Gros Ventre Formation
16	374LKVW	Lakeview Limestone
16	374LNGS	Langston Limestone
16	374MGHR	Meagher Limestone
16	374PARK	Park Shale
16	374RNNI	Rennie Shale
16	374SPNC	Spence Shale Member of Ute Limestone
16	374UTE	Ute Limestone
16	377CMBRL	Lower Cambrian Series
16	400ABRG	Albion Range Group
16	400BELT	Belt Series
16	400BLCK	Blacktail Formation
16	400BSLB	Boehls Butte Formation of Belt Series
16	400BRVB	Burke Formation of Ravalli Group of Belt Series
16	400BURK	Burke Formation of Ravalli Group of Belt Series
16	400EFRK	East Fork Formation
16	400HCKB	Huckleberry Formation
16	400HNDM	Hyndman Formation
16	400HOOD	Hoodoo Quartzite
16	400LEOL	Leola Volcanics
16	400LMHI	Lemhi Quartzite
16	400MONK	Monk Formation
16	400MUTL	Mutual Formation
16	400PCMB	Precambrian Erathem
16	400PICD	Prichard Slate Formation of Belt Series
16	400PRCD	Prichard Slate Formation of Belt Series
16	400RVLL	Ravalli Group of Belt Series
16	400RVTT	Revett Formation of Ravalli Group of Belt Series
16	400SRGS	St Regis Formation of Ravalli Group of Belt Series
16	400SWGR	Swauger Quartzite
16	400WLLC	Wallace Formation
16	400YJCK	Yellowjacket Formation
16	BASEMENT	Basement
16	BEDROCK	Bedrock
17	100CEZC	Cenozoic
17	100CNZC	Cenozoic Erathem
17	110CLAY	Clay (Holocene and/or Pleistocene)
17	110GRAV	Gravel (Holocene and/or Pleistocene)
17	110GRVL	Gravel - Holocene and Pleistocene Series
17	110GVCL	Gravel and Clay (Holocene and/or Pleistocene)
17	110HRDP	Hardpan (Holocene and/or Pleistocene)
17	110MARL	Marl (Holocene and/or Pleistocene)
17	110PEAT	Peat (Holocene and/or Pleistocene)
17	110QRNR	Quaternary System
17	110SAND	Sand - Holocene and Pleistocene Series
17	110SANDP	Sand (Holocene and/or Pleistocene)
17	110SDCL	Sand Clay (Holocene and/or Pleistocene)
17	110SDGV	Sand and Gravel - Holocene and Pleistocene Series
17	110SDGVP	Sand and Gravel (Holocene and/or Pleistocene)
17	110SGVC	Sand, Gravel, and Clay (Holocene and/or Pleistocene)

17	110SILT	Silt (Holocene and/or Pleistocene)
17	111ALVM	Holocene Alluvium
17	111FILL	Fill
17	111HLCN	Holocene Series
17	111LKFR	Lake Michigan Formation-Lake Forest Member
17	111LKMG	Lake Michigan Formation
17	111RVIN	Lake Michigan Formation-Ravinia Sand Member
17	111SOIL	Soil
17	111WKGN	Lake Michigan Formation-Waukegan Member
17	111WNTK	Lake Michigan Formation-Winnetka Member
17	112ARGL	Winnebago Formation-Argyle Till Member
17	112BLGM	Banner Formation-Belgium Member
17	112BNNR	Banner Formation
17	112BRRY	Glasford Formation-Berry Clay Member
17	112BTSN	Wedron Formation-Batestown Till Member
17	112BTVI	Henry Formation-Batavia Member
17	112CPRN	Winnebago Formation-Capron Till Member
17	112CRMI	Equality Formation-Carmi Member
17	112DCML	Glasford Formation-Duncan Mills Member
17	112DLTN	Equality Formation-Dolton Member
17	112DLVN	Wedron Formation-Delavan Till Member
17	112ENON	Enion Formation
17	112EQLD	Equality Formation-Dolton Member
17	112EQLT	Equality Formation
17	112ESMD	Wedron Formation-Esmond Till Member
17	112GLBR	Wedron Formation-Glenburn Till Member
17	112GLFD	Glasford Formation
17	112GRVR	Grover Gravel
17	112HEGR	Wedron Formation-Haeger Till Member
17	112HGLR	Banner Formation-Hegeler Till Member
17	112HGRS	Glasford Formation-Hagarstown Member
17	112HLCK	Glasford Formation-Hulick Till Member
17	112HLLR	Banner Formation-Hillery Till Member
17	112HMCK	Henry Formation-Mackinaw Member
17	112HNRY	Henry Formation
17	112HRKS	Banner Formation-Harkness Silt Member
17	112HRMN	Banner Formation-Harmatton Till Member
17	112KLVL	Glasford Formation-Kellerville Till Member
17	112LCNR	Wedron Formation-Lee Center Till Member
17	112LIRL	Banner Formation-Lierle Clay Member
17	112LKMGW	Lake Michigan Formation-Wilmette Bed of the Sheboygan
	Member	
17	112LOVD	Loveland Silt
17	112LVLD	Loveland Silt
17	112MBGV	Glasford Formation-Mulberry Grove Silt Member
17	112MCDG	Roxana Silt-Mcdonough Loess Member
17	112MCKN	Henry Formation-Mackinaw Member
17	112MDOW	Roxana Silt-Meadow Loess Member
17	112MHMT	Banner Formation-Mahomet Sand Member
17	112MLDN	Wedron Formation-Malden Till Member
17	112MNDS	Mounds Gravel
17	112MORT	Morton Loess
17	112MRKM	Roxana Silt-Markham Member
17	112MRTN	Morton Loess

17	112OGLE	Glasford Formation-Ogle Till Member
17	112OKLD	Wedron Formation-Oakland Till Member
17	112PDCD	Peddicord Formation
17	112PEBG	Petersburg Silt
17	112PEOR	Peoria Loess
17	112PERL	Pearl Formation
17	112PLNO	Winnebago Formation-Plano Silt Till Member
17	112PLSC	Pleistocene Series
17	112PORI	Peoria Loess
17	112PRBG	Petersburg Silt
17	112RCLD	Richland Loess
17	112RDNR	Glasford Formation-Radnor Till Member
17	112ROBN	Robein Silt
17	112ROBY	Glasford Formation-Roby Silt Member
17	112ROXN	Roxana Silt
17	112SBGN	Lake Michigan Formation-Sheboygan Member
17	112SHVN	Lake Michigan Formation-South Haven Member
17	112SMBR	Glasford Formation-Smithboro Till Member
17	112SNDR	Wedron Formation-Snider Till Member
17	112SNKT	Banner Formation-Sankoty Sand Member
17	112SRLG	Glasford Formation-Sterling Till Member
17	112TILL	Till
17	112TLTN	Banner Formation-Tilton Till Member
17	112TNRF	Teneriffe Silt
17	112TSKL	Wedron Formation-Tiskilwa Till Member
17	112TULN	Glasford Formation-Toulon Member
17	112VNDL	Glasford Formation-Vandalia Till Member
17	112WDRN	Wedron Formation
17	112WDRNE	Wedron Formation-Esmond Till Member
17	112WDRNW	Wedron Formation-Wadsworth Till Member
17	112WDSR	Wedron Formation-Wadsworth Till Member
17	112WLMT	Lake Michigan Formation-Wilmette Bed of the Sheboygan Member
17	112WNBG	Winnebago Formation
17	112WNSL	Glasford Formation-Winslow Till Member
17	112WSCO	Henry Formation-Wasco Member
17	112YKVL	Wedron Formation-Yorkville Till Member
17	124WICX	Wilcox Formation
17	124WLCX	Wilcox Formation
17	125CLTN	Clayton Formation
17	125PORC	Porters Creek Formation
17	125PRCK	Porters Creek Formation
17	211BYLS	Baylis Formation
17	211HDLY	Baylis Formation-Hadley Gravel Member
17	211KCRK	Baylis Formation-Kiser Creek Member
17	211LVGS	McNairy Formation-Levings Member
17	211MCNR	McNairy Formation
17	211MCNRV	McNairy Formation-Levings Member
17	211OLCK	Owl Creek Formation
17	211TSCL	Tuscaloosa Formation
17	300PLZC	Paleozoic Erathem
17	320PELV	Pennsylvanian
17	320PSLV	Pennsylvanian System
17	322MCLB	Mcleansboro Group

17	322MTTN	Mattoon Formation of Mcleansboro Group
17	322VGMD	Virgilian, Missourian, Desmoinesian Series
17	323BOND	Bond Formation of Mcleansboro Group
17	323MDST	Modesto Formation of Mcleansboro Group
17	325CBDL	Carbondale Formation of Kewanee Group
17	325DSMS	Des Moinesian Series
17	325KEWN	Kewanee Group
17	325SPON	Spoon Formation of Kewanee Group
17	326ABBT	Abbott Formation of McCormick Group
17	326ATKN	Atokan Series
17	326ATOK	Atokan Series
17	326MCMK	Mccormick Group
17	328CSVL	Caseyville Formation of McCormick Group
17	328MRWN	Morrowan Series
17	330MISP	Mississippian
17	330MSSP	Mississippian System
17	332CDBL	Cedar Bluff Group
17	332CSTR	Chesterian Series
17	332DBLF	Downeys Bluff Limestone of Cedar Bluff Group
17	332GLCD	Golconda Group
17	332GOLC	Golconda Group
17	332OKAW	Okaw Group
17	332PCRK	Paint Creek Group
17	332RENLC	Renault Limestone of Cedar Bluff Group
17	332RNLT	Renault Limestone of Cedar Bluff Group
17	332WSBD	West Baden Group
17	332YNKN	Yankeetown Sandstone
17	333AXVS	Aux Vases Sandstone
17	333BRDN	Borden Siltstone
17	333BRLG	Burlington Limestone
17	333FRGL	Fern Glen Formation
17	333FRPN	Fort Payne Chert/formation
17	333KKKB	Keokuk-Burlington Limestone
17	333KKUK	Keokuk Limestone
17	333MPPN	Meppen Formation
17	333SGVV	Ste. Genevieve Limestone
17	333SLEM	Salem Limestone
17	333SNOR	Sonora Formation
17	333SPGV	Springville Shale
17	333STLS	St. Louis Limestone
17	333ULIN	Ullin Limestone
17	333VLMR	Valmeyeran Series
17	333WARSS	Warsaw Shale
17	333WRSW	Warsaw Shale
17	339CHUT	Chouteau Limestone
17	339GLPK	'glen Park' Formation of New Albany Group
17	339HABL	Hannibal Shale
17	339HNBL	Hannibal Shale of New Albany Group
17	339KDRK	Kinderhookian Series
17	339MCCR	Mccraney Limestone of North Hill Group
17	339MCRA	Mccraney Limestone of North Hill Group
17	339NALB	New Albany Group
17	339NTHL	North Hill Group
17	339POPH	Prospect Hill Siltstone

17	339PPCH	Prospect Hill Siltstone of North Hill Group
17	339SRCV	Starrs Cave Limestone of North Hill Group
17	340DEVN	Devonian
17	340DVNN	Devonian System
17	340DVSL	Devonian-Silurian System
17	341DVNNU	Devonian, Upper
17	341GACK	Grassy Creek Shale of New Albany Group
17	341GRCK	Grassy Creek Shale of New Albany Group
17	341LOSN	Louisiana Limestone
17	341LUSN	Louisiana Limestone of New Albany Group
17	341NALB	New Albany Group
17	341NEAB	New Albany Group
17	341SAVR	Saverton Shale
17	341SDCK	Sweetland Creek Shale of New Albany Group
17	341SLMR	Sylamore Sandstone of New Albany Group
17	341SVRN	Saverton Shale of New Albany Group
17	344CDVL	Cedar Valley Limestone
17	344DVNNM	Middle Devonian Series of New Albany Group
17	344HNTN	Hunton Megagroup
17	344NALB	Middle Devonian Series of New Albany Group
17	344WPPC	Wapsipinicon Limestone
17	347BCKB	Backbone Limestone
17	347BILY	Bailey Limestone
17	347CLCK	Clear Creek Chert
17	347DVVNL	Lower Devonian Series
17	347GRKB	Grassy Knob Chert
17	350SIDO	Silurian Dolomite
17	350SLRN	Silurian System
17	355JOLT	Joliet Formation
17	355MNSP	Moccasin Springs Formation
17	355NIGR	Niagaran Series
17	355RCIN	Racine Formation
17	358ALXD	Alexandrian Series
17	358EDGD	Edgewood Formation
17	358KNKK	Kankakee Formation
17	360ODVC	Ordovician System
17	362BRRD	Brainerd Shale of Maquoketa Group
17	362CAPE	Cape Limestone
17	362CLRM	Clermont Shale Member of Scales Shale
17	362CNCN	Cincinnatian Series
17	362ELGN	Elgin Shale Member of Scales Shale
17	362FRAK	Fort Atkinson Formation of Maquoketa Group
17	362FTAK	Fort Atkinson Formation
17	362MQKS	Maquoketa Shale
17	362MQKT	Maquoketa Group
17	362MQKTG	Maquoketa Group
17	362NEDA	Neda Formation of Maquoketa Group
17	362OCCK	Orchard Creek Shale Member of Scales Shale
17	362SCAL	Scales Shale
17	362SCLS	Scales Shale of Maquoketa Group
17	362SSOC	Scales Shale-Orchard Creek Shale Member
17	362SSTS	Scales Shale-Thebes Sandstone Member
17	362THBS	Thebes Sandstone Member of Scales Shale
17	365ANCE	Ancell

17	365ANCL	Ancell Group
17	365CMPL	Champlainian Series
17	365DCRH	Decorah Subgroup of Galena Group
17	365DECR	Decorah Subgroup of Galena Group
17	365DNLT	Dunleith Formation of Kimmswick Subgroup
17	365DTCN	Dutchtown Limestone of Ancell Group
17	365DUBQ	Dubuque Formation of Kimmswick Subgroup
17	365DUBUQ	Dubuque Formation
17	365DUCN	Dutchtown Limestone
17	365EVRN	Everton Dolomite
17	365GALE	Galena Group
17	365GBRG	Guttenberg Formation of Decorah Subgroup
17	365GDDR	Grand Detour Formation of Plattin Subgroup
17	365GLEN	Galena Group
17	365GLND	Glenwood Formation
17	365GLPV	Galena-Platteville Groups
17	365JCHM	Joachim Dolomite of Ancell Group
17	365KGLK	Kings Lake Formation of Decorah Subgroup
17	365KMCK	Kimmswick Subgroup of Galena Group
17	365MFLN	Mifflin Formation of Plattin Subgroup
17	365NCHS	Nachusa Formation of Plattin Subgroup
17	365PCNC	Pecatonica Formation of Platteville Group
17	365PECC	Pecatonica Formation
17	365PLAV	Platteville Group
17	365PLTN	Plattin Subgroup of Platteville Group
17	365PLVL	Platteville Group
17	365PRDC	Prairie Du Chien Group
17	365QMBM	Quimbys Mill Formation of Plattin Subgroup
17	365SPCF	Spechts Ferry Formation of Decorah Subgroup
17	365STPR	St. Peter Sandstone
17	365WSLK	Wise Lake Formation of Kimmswick Subgroup
17	367OVCB	Ordovician-Cambrian Systems
17	368CNDN	Canadian Series
17	368CRJF	Cotter-Jefferson City Dolomites
17	368CTTR	Cotter Dolomite
17	368GNTR	Gunter Sandstone of Prairie Du Chien Group
17	368JFRC	Jefferson City Dolomite
17	368NRCM	New Richmond Sandstone
17	368ONOT	Oneota Dolomite
17	368PRAD	Prairie Du Chien
17	368PWLL	Powell Dolomite
17	368RBDX	Roubidoux Formation
17	368SAKP	Shakopee Dolomite
17	368SHKP	Shakopee Dolomite of Prairie Du Chien Group
17	368SMVL	Smithville Formation
17	368SMVP	Smithville-Powell Formations
17	370CMBR	Cambrian System
17	372DRBD	Derby-Doerun Member of Franconia Formation
17	372DVIS	Davis Member of Franconia Formation
17	372ECLR	Eau Claire Formation
17	372ELMR	Elmhurst Sandstone Member of Eau Claire Formation
17	372ELMS	Elmhurst-Mt. Simon
17	372EMCP	Emience-Potosi Formations
17	372EMNC	Eminence Formation

17	372EMPT	Eminence-Potosi
17	372FRAN	Franconia
17	372FRNC	Franconia Formation
17	372GLVL	Galesville Sandstone
17	372IRGL	Ironton-Galesville
17	372IRNN	Ironton Sandstone
17	372IRON	Ironton Sandstone
17	372JRDN	Jordan Sandstone
17	372LMBD	Lombard Dolomite Member of Eau Claire Formation
17	372MMNC	Momence Sandstone Member of Eminence Formation
17	372MNSM	Mount Simon Sandstone
17	372MNSN	Mount Simon Sandstone
17	372POTS	Potosi Formation
17	372PRVS	Proviso Siltstone Member of Eau Claire Formation
17	372SCRX	St. Croixan Series
17	400BCPX	Basement Complex
17	400PCMB	Precambrian Erathem
17	BASEMENT	Basement
17	BEDROCK	Bedrock
18	100CNZC	Cenozoic Erathem
18	110DUNE	Dune Deposit
18	110DUNED	Dune Deposit
18	110QRNR	Quaternary System
18	110TRRC	Terrace Deposits
18	110VLTR	Valley Train Deposits
18	111ALVM	Holocene Alluvium
18	111CLVM	Colluvium
18	111GOB	Gob Pile
18	111HLCN	Holocene Series
18	111RCOV	Reclaimed Cast Overburden
18	111UCOV	Unreclaimed Cast Overburden
18	112ICCC	Ice-Contact Deposits, Pleistocene
18	112LAKE	Lake Deposits
18	112LFTT	Lafayette Gravel
18	112LOSS	Loess
18	112OTSH	Outwash
18	112OTWS	Outwash
18	112PLSC	Pleistocene Series
18	112TILL	Till
18	120LFTT	Lafayette Gravel
18	120ORVR	Ohio River Formation
18	120TRTR	Tertiary System
18	300PLZC	Paleozoic Erathem
18	320PSLV	Pennsylvanian System
18	321BOND	Bond Formation
18	321MCLB	Mcleansboro Group
18	321MTTN	Mattoon Formation
18	321PSLVU	Upper Pennsylvanian Series
18	321PTOK	Patoka Formation
18	321SLBR	Shelburn Formation
18	324BRZL	Brazil Formation
18	324CABD	Carbondale Group
18	324CBDL	Carbondale Formation
18	324DGGR	Dugger Formation

18	324LNTN	Linton Formation
18	324MFLD	Mansfield Formation
18	324PRBG	Petersburg Formation
18	324PSLVM	Middle Pennsylvanian Series
18	324RCCK	Raccoon Creek Group
18	324STNN	Staunton Formation
18	330MSSP	Mississippian System
18	331POLI	Paoli Limestone
18	332BCKK	Beech Creek Limestone
18	332BECK	Beech Creek Limestone - Golconda Formation
18	332BETL	Bethel Formation West Baden Group
18	332BFWL	Buffalo Wallow Group
18	332BGCF	Big Clifty Formation
18	332BRVL	Branchville Formation of Buffalo Wallow Group
18	332BTHL	Bethel Formation
18	332BVBD	Beaver Bend Limestone
18	332CLOR	Clore Limestone
18	332CSTR	Chesterian Series
18	332DGON	Degonia Sandstone
18	332ELWR	Elwren Formation
18	332GLCD	Colconda Limestone
18	332GLND	Glen Dean Limestone
18	332HANY	Haney Limestone of Stephensport Group
18	332HDBG	Hardinsburg Sandstone
18	332KNKD	Kinkaid Limestone
18	332MNRD	Menard Limestone
18	332PLSN	Palestine Sandstone
18	332RLVL	Reelsville Limestone
18	332SAMP	Sample Formation of West Baden Group
18	332SMPL	Sample Sandstone
18	332SPPR	Stephensport Group
18	332TBPR	Tobinsport Formation of Buffalo Wallow Group
18	332TSPG	Tar Springs Sandstone
18	332VINN	Vienna Limestone
18	332WSBD	West Baden Group
18	333BLRV	Blue River Group
18	333HDBG	Harrodsburg Limestone
18	333MRMC	Meramecian Series
18	333SDRS	Sanders Group
18	333SGVV	Ste. Genevieve Limestone
18	333SLEM	Salem Limestone
18	333STLS	St. Louis Limestone
18	337MSSPL	Mississippian, Lower
18	338BORD	Borden Formation
18	338BRDN	Borden Formation
18	338CRWD	Carwood Formation
18	338LCSP	Locust Point Formation
18	338MLDG	Muldraugh Formation
18	338NPVC	New Providence Shale
18	338OSGE	Osagean Series
18	339KDRK	Kinderhookian Series
18	339RCKF	Rockford Limestone
18	340DVNN	Devonian System
18	340NRVR	North Vernon Limestone

18	341DVNUU	Devonian, Upper
18	341NALB	New Albany Shale
18	344DVNNM	Devonian, Middle
18	344GENV	Geneva Dolomite
18	344JFVL	Jeffersonville Limestone
18	344PNDL	Pendleton Sandstone
18	350SLRN	Silurian System
18	351SALN	Salina Group
18	351SLIN	Salina Formation
18	351SLRNU	Silurian, Upper
18	354LSVL	Louisville Limestone
18	354SLMN	Salamonie Dolomite
18	354SLRNM	Silurian, Middle
18	354WBSH	Wabash Formation
18	354WLDR	Waldron Shale
18	357BFLD	Brassfield Limestone
18	357SLRNL	Silurian, Lower
18	360ODVC	Ordovician System
18	361DLBR	Dillsboro Formation
18	361KOPE	Kope Formation
18	361ODVCU	Ordovician, Upper
18	361SLUD	Saluda Member of Whitewater Formation
18	361WTTR	Whitewater Formation
18	364JCHM	Joachim Dolomite
18	364LXNG	Lexington Limestone
18	364ODVCM	Ordovician, Middle
18	364STPR	St Peter Sandstone
18	364TRNN	Trenton Limestone
18	365BKRV	Black River Formation
18	365BKRVG	Black River Group
18	367KNOX	Knox Dolomite
18	367KNOXS	Knox Supergroup
18	370CMBR	Cambrian System
18	370MSMN	Mount Simon Sandstone
18	371ECLR	Eau Claire Formation
18	371MSMN	Mount Simon Sandstone
18	BASEMENT	Basement
18	BEDROCK	Bedrock
19	100CNZC	Cenozoic Erathem
19	110QRCU	Quaternary - Cretaceous Undifferentiated
19	110QRNR	Quaternary System
19	111ALVM	Holocene Alluvium
19	111BRRV	Boyer River Alluvial Aquifer
19	111BRVT	Boyer River Terrace Aquifer
19	111ENRV	East Nishnabotna River Alluvial Aquifer
19	111HLCN	Holocene Series
19	111LOSS	Loess
19	111LSRD	Little Sioux River Alluvial Aquifer and Dakota Aquifer
19	111LSXR	Little Sioux River Alluvial Aquifer
19	111MPRV	Maple River Alluvial Aquifer
19	111MRRP	Middle Raccoon River Alluvial Aquifer and Pleistocene
	Aquifer	
19	111MRRV	Middle Raccoon River Alluvial Aquifer
19	111MRVT	Maple River Terrace Aquifer

19	111NRRT	North Raccoon River Terrace Aquifer
19	111NRRV	North Raccoon River Alluvial Aquifer
19	111SDRV	Soldier River Alluvial Aquifer
19	111SRRD	South Raccoon River Terrace Aquifer and Dakota Aquifer
19	111SRRV	South Raccoon River Alluvial Aquifer
19	111WNRV	West Nishnabotna River Alluvial Aquifer
19	112ADZC	Adaza Channel Aquifer
19	112AFIG	Aftonian Interglacial Deposits
19	112AFNN	Aftonian Interglacial Deposits
19	112ANCL	Anthon Channel Aquifer
19	112BDCL	Buried Channel Aquifer
19	112BGLC	Bagley Channel Aquifer
19	112BLPC	Basal Pleistocene Aquifer
19	112BPKD	Basal Pleistocene Aquifer and Dakota Aquifer
19	112BVCL	Beaver Channel Aquifer
19	112DNCL	Denison Channel Aquifer
19	112DRFT	Drift
19	112DSCL	Dawson Channel Aquifer
19	112FMCL	Fremont Channel Aquifer
19	112HCKC	Hardin Creek Channel Aquifer
19	112ILNN	Illinoian Deposits
19	112KANS	Kansan Glacial Deposits
19	112KNSN	Kansan Glacial Deposits
19	112NBRK	Nebraskan Glacial Deposits
19	112NEBG	Nebraskan Glacial Deposits
19	112OTSH	Outwash
19	112PLSC	Pleistocene Series
19	112RLCL	Ralston Channel Aquifer
19	112SAGM	Sangamon Interglacial Deposits
19	112SNGM	Sangamon Interglacial Deposits
19	112WICG	Wisconsin Glacial Deposits
19	112WSCS	Wisconsin Glacial Deposits
19	112YAMT	Yarmouth Interglacial Deposits
19	112YRMT	Yarmouth Interglacial Deposits
19	200MSZC	Mesozoic Erathem
19	210CRCS	Cretaceous System
19	211CLRDL	Colorado Group
19	211CRLS	Carlisle Shale
19	211GRER	Greenhorn Limestone
19	211GRNR	Greenhorn Limestone
19	211GRRS	Graneros Shale
19	217CRCSL	Lower Cretaceous Series
19	217DAKT	Dakota Group
19	217DKOT	Dakota Group
19	217DKPV	Dakota Aquifer and Pennsylvanian Aquifer
19	217DKPZ	Dakota-Paleozoic
19	220FDDG	Fort Dodge Formation
19	220JRSC	Jurassic System
19	300PLZC	Paleozoic Erathem
19	320CBUF	Carboniferous Undifferentiated
19	320CDVU	Carboniferous - Devonian Undifferentiated
19	320PSLV	Pennsylvanian System
19	322DGLS	Douglas Group
19	322SHWN	Shawnee Group

19	322VRGL	Virgilian Series
19	322WBNS	Wabaunsee Group
19	323KSSC	Kansas City Group
19	323LNSG	Lansing Group
19	323MSSR	Missourian Series
19	323PLSN	Pleasanton Group
19	325CHRK	Cherokee Group
19	325DSMS	Des Moinesian Series
19	325MRMN	Marmaton Group
19	330MDVU	Mississippian - Devonian Undifferentiated
19	330MSSP	Mississippian System
19	333MRMC	Meramecian Series
19	333SGVV	Ste. Genevieve Limestone
19	333SPRG	Spergen Formation
19	333STLS	St. Louis Limestone
19	338BRLG	Burlington Limestone
19	338CDFK	Cedar Fork Member of Burlington Limestone
19	338DBCK	Dolbee Creek Member of Burlington Limestone
19	338HGCK	Haight Creek Member of Burlington Limestone
19	338KEKK	Keokuk Formation
19	338KKUK	Keokuk Formation
19	338OSGE	Osagean Series
19	338WRSW	Warsaw Formation
19	339CHPN	Chapin Member of Hampton Formation
19	339EGLC	Eagle City Member of Hampton Formation
19	339GLMC	Gilmore City Limestone
19	339HMPN	Hampton Formation
19	339IFLS	Iowa Falls Member of Hampton Formation
19	339KDRK	Kinderhookian Series
19	339MCCR	Mccraney Limestone
19	339MCRK	Mayne Creek Member of Hampton Formation
19	339NRHL	North Hill Member of Hampton Formation
19	339PPCH	Prospect Hill Formation
19	339WSVL	Wassonville Member of Hampton Formation
19	340DVNN	Devonian System
19	340DVSL	Devonian-Silurian System
19	341APLG	Aplington Formation
19	341CRGD	Cerro Gordo Member of Lime Creek Formation
19	341DVNNU	Devonian, Upper
19	341EGRV	English River Formation
19	341ERPH	English River and Prospect Hill Formations
19	341IDPC	Independence Shale
19	341JPHL	Juniper Hill Member of Lime Creek Formation
19	341LMCK	Lime Creek Formation
19	341MPLM	Maple Mill Shale
19	341MSNC	Mason City Member of Shell Rock Formation
19	341NORA	Nora Member of Shell Rock Formation
19	341OWEN	Owen Member of Shell Rock Formation
19	341RKGV	Rock Grove Member of Shell Rock Formation
19	341SFLD	Sheffield Formation
19	341SLCK	Shell Rock Formation
19	341YSPG	Yellow Springs Group
19	344BRRM	Bertram Member of Wapsipinicon Formation
19	344CDVL	Cedar Valley Limestone

19	344CGGN	Coggon Member of Wapsipinicon Formation
19	344CLVL	Coralville Member of Cedar Valley Formation
19	344DVNNM	Devonian, Middle
19	344DVPR	Davenport Member of Wapsipinicon Formation
19	344KNWD	Kenwood Member of Wapsipinicon Formation
19	344OTIS	Otis Member of Wapsipinicon Formation
19	344RPID	Rapid Member of Cedar Valley Formation
19	344SOLN	Solon Member of Cedar Valley Formation
19	344SPGV	Spring Grove Member of Wapsipinicon Limestone
19	344WAPC	Wapsipinicon Formation
19	344WPPC	Wapsipinicon Formation
19	347DVNNL	Devonian, Lower
19	347DVSL	Devonian-Silurian Systems
19	347LPRC	La Porte City Chert
19	350SLRN	Silurian System
19	355GOWR	Gower Dolomite
19	355GOWRD	Gower Dolomite
19	355HOPK	Hopkinton Dolomite
19	355HPKN	Hopkinton Dolomite
19	355NIGR	Niagaran Series
19	358ALXD	Alexandrian Series
19	358EDGD	Edgewood Formation
19	358KNKK	Kankakee Formation
19	360ODVC	Ordovician System
19	360OVCB	Ordovician-Cambrian Systems
19	361BRRD	Brainerd Member of Maquoketa Formation
19	361CLRM	Clermont Shale Member of Maquoketa Formation
19	361ELGN	Elgin Member of Maquoketa Formation
19	361FRAK	Fort Atkinson Member of Maquoketa Formation
19	361MAQK	Maquoketa Formation
19	361MQKT	Maquoketa Formation
19	361NEDA	Neda Member of Maquoketa Formation
19	361ODVCU	Ordovician, Upper
19	364DCPV	Decorah-Platteville Formations
19	364DCRH	Decorah Formation
19	364DUBQ	Dubuque Member of Galena Formation
19	364GALN	Galena Formation
19	364GBRG	Guttenberg Member of Decorah Formation
19	364GLEN	Galena Formation
19	364GLNDH	Glenwood Shale Member of Platteville Formation
19	364GLNDS	Glenwood Sandstone Member of Platteville Formation
19	364ION	Ion Member of Decorah Formation
19	364MCGG	Mcgregor Member of Platteville Formation
19	364ODVCM	Ordovician, Middle
19	364PCNC	Pecatonica Member of Platteville Formation
19	364PLVL	Platteville Formation
19	364PRSR	Prosser Member of Galena Formation
19	364SPCF	Spechts Ferry Member of Decorah Formation
19	364SRVL	Stewartville Member of Galena Formation
19	364STPR	St Peter Sandstone
19	367ODVCL	Ordovician, Lower
19	367ONET	Oneota Member of Prairie Du Chien Formation
19	367ONOT	Oneota Member of Prairie Du Chien Formation
19	367OVCB	Ordovician-Cambrian Systems

19	367PRDC	Prairie Du Chien Formation
19	367RTVL	Root Valley Member of Prairie Du Chien Formation
19	367WILR	Willow River Member of Prairie Du Chien Formation
19	367WLRV	Willow River Member of Prairie Du Chien Formation
19	370CMBR	Cambrian System
19	371BDAX	Bad Axe Member of Franconia Sandstone
19	371CMBRU	Cambrian, Upper
19	371DRBC	Dresbach Group
19	371ECLR	Eau Claire Formation
19	371FRNC	Franconia Sandstone
19	371GDNG	Goodenough Member of Franconia Sandstone
19	371GLVL	Galesville Sandstone
19	371HDSN	Hudson Member of Franconia Sandstone
19	371IGLV	Ironton Sandstone Member of Franconia Ss.-Galesville Ss.
19	371IOGV	Ironton Sandstone Member of Franconia Ss.-Galesville Ss.
19	371IRNN	Ironton Member of Franconia Sandstone
19	371JRDN	Jordan Sandstone
19	371MSMN	Mount Simon Sandstone
19	371SLRC	St Lawrence Formation
19	371TEMP	Trempealeau Group
19	371TMPL	Trempealeau Group
19	400IGNS	Precambrian Igneous Rocks
19	400MMPC	Precambrian Metamorphic Rocks
19	400PCMB	Precambrian Erathem
19	400SDMR	Precambrian Sedimentary Rocks
19	400SOUX	Sioux Quartzite
19	BASEMENT	Basement
19	BEDROCK	Bedrock
20	100CNZC	Cenozoic Erathem
20	110ALVM	Quaternary Alluvium
20	110QRNR	Quaternary System
20	110QRRT	Quaternary-Tertiary Systems
20	111CLVM	Colluvium
20	111HLCN	Holocene Series
20	111RCNT	Recent Stage
20	112ACSN	Atchison Formation
20	112AFNN	Aftonian Stage
20	112AFTN	Afton Soil
20	112ALFV	Eolian-Fluvial Deposits
20	112ALVM	Alluvium
20	112ANGL	Angell Member of Ballard Formation
20	112ATTR	Atwater Member of Crooked Creek Formation
20	112BGNL	Bignell Formation
20	112BKCK	Buckcreek Terrace Deposits
20	112BLRD	Ballard Formation
20	112BRDN	Bradyan Sandstone
20	112BRDY	Brady Soil
20	112CDBF	Cedar Bluffs Till
20	112CKCK	Crooked Creek Formation
20	112CRET	Crete Formation
20	112CRYN	Caryan Sandstone
20	112DRFT	Drift
20	112DVDC	David City Formation
20	112EOLN	Eolian Deposits

20	112FLRN	Fullerton Formation
20	112FLVL	Fluvial Deposits
20	112GDID	Grand Island Formation
20	112HLDG	Holdrege Formation
20	112ILNN	Illinoian Deposits
20	112IOWN	Iowan Stage
20	112IWPB	Iowa Point Till
20	112KANSS	Kansan Stage
20	112KGFV	Kansan Glaciofluvial Deposits
20	112KGSD	Kingsdown Formation
20	112KNSN	Kansan Stage
20	112KSTL	Kansan Till
20	112LOSS	Loess
20	112LVLD	Loveland Formation
20	112MCPR	Mcpherson Formation
20	112MEDE	Meade Group
20	112MNKN	Mankatoan Substage
20	112MSLR	Missler Member of Ballard Formation
20	112NBFV	Nebraskan Fluvioglacial Deposits
20	112NBRK	Nebraskan Deposits
20	112NCKR	Nickerson Till
20	112NOVL	Nortonville Clay
20	112NRVL	Nortonville Clay
20	112NWMN	Newman Terrace Deposits
20	112OTSH	Outwash
20	112PCPC	Pleistocene-Pliocene Series
20	112PLSC	Pleistocene Series
20	112PLSCL	Pleistocene Series, Lower
20	112PLSCU	Pleistocene Series, Upper
20	112PORI	Peoria Formation
20	112PRLT	Pearlette Ash Bed
20	112RCIS	Recent-Illinoisian Stages
20	112RGLT	Regolith, Unmapped
20	112SAPP	Sappa Formation
20	112SMPA	Stump Arroyo Member of Crooked Creek Formation
20	112SNBR	Sanborn Group
20	112SNGM	Sangamon Soil
20	112TILL	Till
20	112TRRC	Terrace Deposits
20	112TZLN	Tazewellian Substage
20	112UPCH	Upland Chert Grav
20	112VNHM	Vanhem Formation
20	112WSCS	Wisconsinan Stage
20	112YNBK	Yarmouthian-Nebraskan Stages
20	112YRMN	Yarmouthian Stage
20	112YRMT	Yarmouth Soil
20	120TRTR	Tertiary System
20	121ASHL	Ash Hollow Formation
20	121BLNC	Blanco Formation
20	121CLVR	Calvert Ash Bed of Valentine Member of Ogallala Formation
20	121DLMR	Delmore Formation
20	121DLVL	Dellvale Ash Bed of Ash Hollow Member of Ogallala Formation

20	121FWLC	Fort Wallace Ash Bed of Ash Hollow Member of Ogallala Formation
20	121GLMC	Gilman Canyon Formation
20	121KMBL	Kimball Member of Ogallala Formation
20	121LVRN	Laverne Formation
20	121NGCC	Neogene-Cretaceous Systems
20	121NOGN	Neogene System
20	121OCJT	Ogallala-Cheyenne-Jurassic-Triassic Formations and Systems
20	121ODCJ	Ogallala-Dakota-Cheyenne-Jurassic-Triassic Formations and Systems
20	121ODKC	Ogallala-Dakota-Cheyenne Formations
20	121OGDK	Ogallala-Dakota Formations
20	121OGLC	Ogallala-Cheyenne Formations
20	121OGLL	Ogallala Formation
20	121PCCN	Pliocene Series
20	121REGR	Reager Ash Bed of Ash Hollow Member of Ogallala Formation
20	121RLNS	Rawlins Ash Bed of Ash Hollow Member of Ogallala Formation
20	121RMVL	Reamsville Ash Bed of Ash Hollow Member of Ogallala Formation
20	121RXRD	Rexroad Formation
20	121VALN	Valentine Member of Ogallala Formation
20	121VLNN	Valentine Member of Ogallala Formation
20	121XI Xi	Member of Rexroad Formation
20	200MSZC	Mesozoic Erathem
20	210CRCS	Cretaceous System
20	210DKOT	Dakota Sandstone or Formation or Group
20	211BCID	Beecher Island Shale Member of Pierre Shale
20	211BGCK	Bridge Creek Limestone Member of Greenhorn Limestone
20	211BLHL	Blue Hill Shale Member of Carlile Shale
20	211CDLL	Codell Sandstone Member of Carlile Shale
20	211CLRD	Colorado Group
20	211CRCSU	Upper Cretaceous Series
20	211CRLI	Carlile Shale
20	211FCPS	Fencepost Limestone Bed of Pfeiffer Shale Member of Greenhorn Limestone
20	211FRHS	Fort Hays Limestone Member of Niobrara Formation
20	211FRPR	Fairport Chalky Shale Member of Carlile Shale
20	211GRER	Greenhorn Limestone
20	211GRNR	Greenhorn Limestone or Formation
20	211GRRS	Graneros Shale
20	211HPDP	Hills Pond Peridot
20	211HRLD	Hartland Shale Member of Greenhorn Limestone
20	211JTMR	Jetmore Chalk Member of Greenhorn Limestone
20	211LKCK	Lake Creek Shale Member of Pierre Shale
20	211LNCL	Lincoln Member of Greenhorn Limestone
20	211MNTN	Montana Group
20	211NBRR	Niobrara Formation
20	211PFFR	Pfeiffer Shale Member of Greenhorn Limestone
20	211PIRR	Pierre Shale
20	211SLGR	Salt Grass Shale Member of Pierre Shale
20	211SMKH	Smoky Hill Chalk Member of Niobrara Formation

20	211SSPG	Sharon Springs Member of Pierre Shale
20	211WSKN	Weskan Shale Member of Pierre Shale
20	212GLFN	Gulfian Series
20	217CCKM	Cockrum Sandstone
20	217CENN	Cheyenne Sandstone
20	217CMPN	Champion Shell Bed of Kiowa Shale
20	217CRCSL	Lower Cretaceous Series
20	217CRUS	Cruise Sandstone Member of Omadi Formation
20	217CYNN	Cheyenne Sandstone
20	217GRLY	Gurley Sandstone Member of Omadi Formation
20	217HNSM	Huntsman Shale Member of Omadi Formation
20	217JNSN	Janssen Clay Member of Dakota Formation
20	217KIOW	Kiowa Shale
20	217OMDI	Omadi Formation
20	217TRCT	Terra Cotta Clay Member of Dakota Formation
20	218CMNC	Comanchean Series
20	220JCTC	Jurassic-Triassic Systems
20	220JRSC	Jurassic System
20	221JRSCU	Upper Jurassic Series
20	221MRSN	Morrison Formation
20	230TRSC	Triassic System
20	231DCKM	Dockum Group
20	231TRSCU	Upper Triassic Series
20	300PLZC	Paleozoic Erathem
20	310JSVL	Janesville Shale
20	310MFLD	Matfield Shale
20	310NLNS	Nolans Limestone
20	310NNSC	Ninnescah Shale
20	310ONAG	Onaga Shale
20	310PRMN	Permian System
20	310QRRM	Quartermaster Formation
20	310WLNG	Wellington Formation
20	310WTRS	Whitehorse Sandstone or Group
20	311BGBS	Big Basin Formation
20	311DCRK	Day Creek Dolomite
20	311KIGR	Kiger Shale Member of Whitehorse Formation
20	311PRMNU	Upper Permian Series
20	311RLCK	Relay Creek Dolomite Member of Whitehorse Formation
20	311TLOG	Taloga Formation
20	313BLIN	Blaine Gypsum
20	313DGCK	Dog Creek Shale
20	313FLRP	Flowerpot Shale
20	313GDLP	Guadalupian Series
20	313MRLW	Marlow Formation
20	317ADMR	Admire Group
20	317AMRC	Americus Limestone Member of Foraker Limestone
20	317ASPL	Aspinwall Limestone Member of Onaga Shale
20	317BDER	Bader Limestone
20	317BNNT	Bennett Shale Member of Red Eagle Limestone
20	317BRNS	Barneston Limestone
20	317BSPG	Blue Springs Shale Member of Matfield Shale
20	317BTTI	Beattie Limestone
20	317BURR	Burr Limestone Member of Grenola Limestone
20	317BUSP	Blue Springs Shale Member of Matfield Shale

20	317CFLD	Crisfield Sandstone Bed of Salt Plain Formation
20	317CKSK	Chikaskia Sandstone Member of Harper Sandstone
20	317CMRN	Cimarronian Stage
20	317CRLN	Carlton Limestone Member of Wellington Formation
20	317CRSL	Cresswell Limestone Member of Winfield Limestone
20	317CRUS	Crouse Limestone
20	317CTTN	Cottonwood Limestone Member of Beattie Limestone
20	317DOYL	Doyle Shale
20	317EISS	Eiss Limestone Member of Bader Limestone
20	317ELCK	Easily Creek Shale
20	317FLRC	Florence Limestone Member of Barnestown Formation
20	317FLRN	Florena Shale Member of Beattie Limestone
20	317FLSC	Falls City Limestone
20	317FNSN	Funston Limestone
20	317FRRL	Fort Riley Limestone Member of Barneston Limestone
20	317FVPN	Five Point Limestone Member of Janesville Shale
20	317GAGE	Gage Shale Member of Doyle Shale
20	317GLCK	Glenrock Limestone Member of Red Eagle Limestone
20	317GRNT	Grant Shale Member of Winfield Limestone
20	317GRYN	Gearyan Stage
20	317HCKK	Houchen Creek Limestone Member
20	317HCNS	Hutchinson Salt Member of Wellington Formation
20	317HGCK	Hughes Creek Shale Member of Foraker Limestone
20	317HLBG	Hollenberg Limestone Member of Wellington Formation
20	317HLMV	Holmesville Shale Member of Doyle Shale
20	317HMLN	Hamlin Shale Member of Janesville Shale
20	317HOSR	Hooser Shale Member of Bader Limestone
20	317HOWE	Howe Limestone Member of Red Eagle Limestone
20	317HRNG	Herington Limestone Member of Nolan Limestone
20	317HRPR	Harper Sandstone
20	317HSKW	Haskey Gypsum Member of Blaine Gypsum
20	317HVVL	Havensville Shale Member of Wreford Limestone
20	317HXBY	Hawxby Shale Member of Onaga Shale
20	317IDCV	Indian Cave Sandstone Bed of Towle Shale Member of Onaga
	Shale	
20	317KNNY	Kinney Limestone Member of Matfield Shale
20	317KRDR	Krider Limestone Member Nolans Limestone
20	317LGCK	Long Creek Limestone Member of Foraker Limestone
20	317LGON	Legion Shale Member of Grenola Limestone
20	317MCLG	Medicine Lodge Gypsum Member of Blaine Gypsum
20	317MDBG	Middleburg Limestone Member of Bader Limestone
20	317MILN	Milan Dolomite Member of Wellington Formation
20	317MRRL	Morrill Limestone Member of Beattie Limestone
20	317NEVA	Neva Limestone Member of Grenola Limestone
20	317NPPL	Nippewalla Group
20	317NSCG	Nescatunga Gypsum Member of Blaine Gypsum
20	317OAKS	Oaks Shale Bed of Hamlin Member of Janesville Shale
20	317OKET	Oketa Shale Member of Barneston Limestone
20	317PDCK	Paddock Shale Member of Nolans Limestone
20	317PMPV	Lower Permian-Upper Pennsylvanian Series
20	317PRMNL	Lower Permian Series
20	317RNMD	Runnymede Sandstone Member of Ninnescah Shale
20	317SCRL	Stone Corral Formation
20	317SCRR	Schroyer Limestone Member of Wreford Limestone

20	317SHMR	Shimer Gypsum Member of Blaine Gypsum
20	317SLMP	Salem Point Shale Member of Grenola Limestone
20	317SLRD	Sallyards Limestone Member of Grenola Limestone
20	317SMNR	Sumner Group
20	317SPSR	Speiser Shale
20	317SRNS	Stearns Shale
20	317STIN	Stine Shale Bed of Hamlin Shale Member of Janesville
Shale		
20	317STVL	Stovall Limestone Member of Winfield Limestone
20	317TOWL	Towle Shale Member of Onaga Shale
20	317TRML	Threemile Limestone Member of Wreford Limestone
20	317TWND	Towanda Limestone Member of Doyle Shale
20	317WBRC	West Branch Shale Member of Janesville Shale
20	317WFLD	Winfield Limestone
20	317WRFD	Wreford Limestone
20	317WYMR	Wymore Shale Member of Matfield Shale
20	318CDHL	Cedar Hills Sandstone
20	318CEDH	Cedar Hills Sandstone
20	318KNGM	Kingman Sandstone Member of Harper Sandstone
20	318LNRD	Leonardian Series
20	318SLPL	Salt Plain Formation
20	319BRPD	Blue Rapids Shale
20	319CCGV	Council Grove Group
20	319CHSE	Chase Group
20	319EKDG	Eskridge Shale
20	319FRCK	Foraker Limestone
20	319GRNL	Grenola Limestone
20	319JNSN	Johnson Shale
20	319ODEL	Odell Shale
20	319RDEG	Red Eagle Limestone
20	319ROCA	Roca Shale
20	319WFMP	Wolfcampian Series
20	320GRWS	Granite Wash
20	320PSLV	Pennsylvanian System
20	320PVCB	Pennsylvanian-Cambrian Systems
20	321AMZN	Amazonia Limestone Member of Lawrence Formation
20	321ARDE	Aarde Shale Member of Howard Limestone
20	321ARGN	Argentine Limestone Member of Wyandotte Limestone
20	321AVOC	Avoca Limestone Member of Lecompton Limestone
20	321BCK	Bachelor Creek Limestone Member of Howard Limestone
20	321BEIL	Beil Limestone Member of Lecompton Limestone
20	321BERN	Bern Limestone
20	321BFLS	Bethany Falls Limestone Member Swope Formation
20	321BGSP	Big Springs Limestone Member of Lecompton Limestone
20	321BLCK	Block Limestone Member of Cherryvale Shale
20	321BLGM	Burlingame Limestone Member of Bern Limestone
20	321BRVL	Brownville Limestone Member of Wood Siding Formation
20	321CACK	Clay Creek Limestone Member of Kanwaka Shale
20	321CDVL	Cedar Vale Shale Member of Scranton Shale
20	321CFVL	Coffeyville Formation
20	321CGGV	Cottage Grove Sandstone of Chanute Shale
20	321CHNT	Chanute Shale
20	321CHRC	Church Limestone Member of Howard Limestone
20	321CLCK	Clay Creek Limestone Member of Kanwaka Shale

20	321CMNC	Cement City Limestone Member of Drum Limestone
20	321CNVL	Canville Limestone Member of Dennis Limestone
20	321CPCK	Captain Creek Limestone Member of Stanton Limestone
20	321CRBC	Corbin City Limestone Member of Drum Limestone
20	321CRVL	Cherryvale Shale
20	321CRZN	Curzon Limestone Member of Topeka Limestone
20	321CRZR	Critzer Limestone Member of Hertha Limestone
20	321DDCK	Dodds Creek Sandstone Member of Galesburg Shale
20	321DEWY	Dewey Limestone Member of Drum Limestone
20	321DNPN	Doniphan Shale Member of Lecompton Limestone
20	321DOVR	Dover Limestone Member of Stotler Limestone
20	321DRY	Dry Shale Member of Stotler Limestone
20	321DUBS	Du Bois Limestone Member of Topeka Limestone
20	321ELMN	Elmont Limestone Member of Emporia Limestone
20	321ELMO	Elmo Coal Bed of Cedar Vale Shale Member of Scranton
	Shale	
20	321EUDR	Eudora Shale Member of Stanton Limestone
20	321EVCK	Ervine Creek Limestone Member of Deer Creek Limestone
20	321FCKK	French Creek Shale Member of Root Shale
20	321FRDC	Friedrich Shale Member of Root Shale
20	321FRLY	Farley Limestone Member of Wyandotte Limestone
20	321FRSB	Frisbie Limestone Member Wyandotte Limestone
20	321GRDV	Grandhaven Limestone Member of Stotler Limestone
20	321GRRS	Grayhorse Limestone Member of Wood Siding Formation
20	321HBNR	Heebner Shale Member of Oread Limestone
20	321HKCK	Hickory Creek Shale Member of Plattsburg Limestone
20	321HMDR	Heumader Shale Member of Oread Limestone
20	321HOLT	Holt Shale Member of Topeka Limestone
20	321HPCK	Hushpuckney Shale Member of Swope Limestone
20	321HPLH	Happy Hollow Limestone Member of Scranton Shale
20	321HPLR	Hepler Sandstone Member of Seminole Formation
20	321HRFD	Hartford Limestone Member of Topeka Limestone
20	321HSKL	Haskell Limestone Member of Lawrence Formation
20	321HVVL	Harveyville Shale Member of Emporia Limestone
20	321IDCK	Island Creek Shale Member of Wyandotte Limestone
20	321IPNT	Iowa Point Shale Member of Topeka Limestone
20	321IRLD	Ireland Sandstone Member of Lawrence Shale
20	321JKPK	Jackson Park Shale Member of Kanwahka Shale
20	321JMCK	Jim Creek Limestone Member of Root Shale
20	321JNSP	Jones Point Shale Member of Topeka Limestone
20	321KGHL	King Hill Shale Member of Lecompton Limestone
20	321KNBN	Knobtown Sandstone
20	321KRFD	Kereford Limestone Member of Oread Limestone
20	321LBOK	Larsh-Burr Oak Shale Members of Deer Creek Limestone
20	321LBSP	Lane-Bonner Springs Shale
20	321LNGD	Langdon Shale
20	321LVLS	Lane-Vilas Shales
20	321LVNR	Leavenworth Limestone Member of Oread Limestone
20	321MCCK	Muncie Creek Shale Member of Iola Limestone
20	321MDCK	Middle Creek Limestone Member of Swope Limestone
20	321MNDC	Mound City Shale Member of Hertha Limestone
20	321MPLH	Maple Hill Limestone Member of Zeandale Limestone
20	321MRRM	Merriam Limestone Member of Plattsburg Limestone
20	321MSRN	Missourian Series

20	321NBKC	Nebraska City Limestone Member of Wood Siding Formation
20	321NDCL	Nodaway Coal Bed of Aarde Shale Member of Howard
	Limestone	
20	321NEMH	Nemaha Subgroup
20	321OSKL	Oskaloosa Shale Member of Deer Creek Limestone
20	321OZWK	Ozawkie Limestone Member of Deer Creek Limestone
20	321PAOL	Paola Limestone Member of Iola Limestone
20	321PCRK	Pony Creek Shale Member of Wood Siding Formation
20	321PLMB	Plumb Shale Member of Wood Siding Formation
20	321POCK	Pony Creek Shale Member of Wood Siding Formation
20	321PRSP	Pierson Point Shale
20	321PSLVU	Upper Pennsylvanian Series
20	321QNDR	Quindaro Shale Member of Wyandotte Limestone
20	321QNHL	Queen Hill Shale Member of Lecompton Limestone
20	321RBNS	Robbins Shale Member of Lawrence Shale
20	321RDNG	Reading Limestone Member of Emporia Limestone
20	321RKBF	Rock Bluff Limestone Member of Deer Creek Limestone
20	321RKLK	Rock Lake Shale Member of Stanton Limestone
20	321RULO	Rulo Limestone Member of Scranton Shale
20	321RYTN	Raytown Limestone Member of Iola Limestone
20	321SBLYL	Lower Sibley Coal Bed of Tonganoxie Sandstone Member of
	Stranger Fm	
20	321SBLYU	Upper Sibley Coal Bed of Tonganoxie Sandstone Member of
	Stranger Fm	
20	321SBND	South Bend Limestone Member of Stanton Limestone
20	321SDCK	Soldier Creek Shale Member of Bern Limestone
20	321SDVL	Snyderville Shale Member of Oread Limestone
20	321SLDN	Sheldon Limestone Member of Topeka Limestone
20	321SMND	South Mound Shale Member of Seminole Formation
20	321SNBR	Sniabar Limestone Member of Hertha Limestone
20	321SPGH	Spring Hill Limestone Member of Plattsburg Limestone
20	321SRMN	Stormont Limestone Bed of Wamego Shale Member of
	Zeandale Limestone	
20	321STLL	Stull Shale Member of Kanwaka Shale
20	321STNR	Stoner Limestone Member of Stanton Limestone
20	321STRK	Stark Shale Member of Dennis Limestone
20	321SVLK	Silver Lake Shale Member of Scranton Shale
20	321TCKT	Tacket Formation
20	321THYR	Thayer Coal Bed of Unnamed Shale Member of Noxie
	Sandstone Member	
20	321TNCK	Turner Creek Shale Member of Topeka Limestone
20	321TNGX	Tonganoxie Sandstone Member of Stranger Formation
20	321TRKO	Tarkio Limestone Member of Zeandale Limestone
20	321TRNT	Toronto Limestone Member of Oread Limestone
20	321UTOP	Utopia Limestone Member of Howard Limestone
20	321VNLD	Vinland Shale Member of Stranger Formation
20	321WCLD	Whitie Cloud Shale Member of Scranton Shale
20	321WDSG	Wood Siding Formation
20	321WEA	Wea Shale Member of Cherryvale Shale
20	321WKRS	Wakarusa Limestone Member of Bern Limestone
20	321WMBG	Williamsburg Coal Bed of Amazonia Limestone Member of
	Lawrence Fm	
20	321WMGO	Wamego Shale Member of Zeandale Limestone
20	321WNRS	Winterset Limestone Member of Dennis Limestone

20	321WQVR	Wea-Quivira Shale Members of Cherryvale Shale
20	321WRVL	Westerville Limestone Member of Cherryville Shale
20	321WSPL	Westphalia Limestone Member of Stranger Formation
20	321WSTN	Weston Shale Member of Stranger Formation
20	321WTHN	Wathena Shale Member of Oread Limestone
20	321WZLR	Winzeler Shale Member of Howard Limestone
20	322ABRN	Auburn Shale
20	322CLHN	Calhoun Shale
20	322DGLS	Douglas Group
20	322DRCK	Deer Creek Limestone
20	322ELGN	Elgin Sandstone Member of Vamoosa Formation
20	322EMPR	Emporia Limestone
20	322HWRD	Howard Limestone
20	322KNWK	Kanwaka Shale
20	322LCMP	Lecompton Limestone
20	322LRNC	Lawrence Shale
20	322ORED	Oread Limestone
20	322PLBR	Pillsbury Shale
20	322PLSM	Plattsburgh Limestone Member of Oread Limestone
20	322RCRD	Richardson Subgroup
20	322ROOT	Root Shale
20	322SCFX	Sacfox Subgroup
20	322SCRN	Scranton Shale
20	322SHWN	Shawnee Group
20	322SPGB	Spring Branch Limestone Member of Lecompton Limestone
20	322SRGR	Stranger Formation
20	322STLR	Stotler Limestone
20	322SVRY	Severy Shale
20	322TCMS	Tecumseh Shale
20	322TOPK	Topeka Limestone
20	322VIGL	Virgilian Stage
20	322VRGL	Virgilian Stage
20	322WBNS	Wabaunsee Group
20	322WLRD	Willard Shale
20	322ZNDL	Zeandale Limestone
20	323BRNS	Bronson Subgroup
20	323BSPG	Bonner Springs Shale
20	323CCKB	Checkerboard Limestone
20	323DNNS	Dennis Limestone
20	323DRUM	Drum Limestone
20	323FNTN	Fontana Shale Member of Cherryvale Shale
20	323GLBG	Galesburg Shale
20	323HRTH	Hertha Limestone
20	323IATN	Iatan Limestone
20	323IOLA	Iola Limestone
20	323KSSC	Kansas City Group
20	323LANE	Lane Shale
20	323LDOR	Ladore Shale
20	323LINN	Linn Subgroup
20	323LNSG	Lansing Group
20	323NOXI	Noxie Sandstone Member of Chanute Shale
20	323PEDE	Pedee Group
20	323PLBG	Plattsburg Limestone
20	323PLSN	Pleasanton Group

20	323QUVR	Quivira Shale Member of Cherryvale Shale
20	323SMNL	Seminole Formation
20	323STNN	Stanton Limestone
20	323SWOP	Swope Limestone
20	323VILS	Vilas Shale
20	323WNDT	Wyandotte Limestone
20	323ZARH	Zarah Subgroup
20	324AKBD	Atokan (Bendian) Stage
20	324ALMN	Altamont Limestone
20	324AMRT	Amoret Limestone Member of Altamont Limestone
20	324ANNA	Anna Shale Member of Pawnee Limestone
20	324BRKA	Broken Arrow Coal
20	324BVIR	Bevier Coal Bed of Cabanics Formation
20	324BZHL	Breezy Hill Limestone Member of Cabaniss Formation
20	324CBNS	Cabaniss Formation
20	324CHAT	Chat
20	324CRBG	Croweburg Coal Bed of Cabaniss Formation
20	324DRYD	Drywood Coal Bed of Krebs Formation
20	324DSMS	Desmoinesian Stage
20	324EGLV	Englevale Sandstone Member of Labette Shale
20	324EXCL	Excello Shale
20	324FLMG	Fleming Coal Bed of Cabaniss Formation
20	324HLDV	Holdenville Shale
20	324HOUX	Houx Limestone Bed of Little Osage Shale Member of Fort
Scott Ls		
20	324IDBR	Idenbro Limestone Member of Lenapah Limestone
20	324IRPS	Iron Post Coal
20	324KNFN	Knifeton Coal
20	324LBRD	Laberdie Limestone Member of Pawnee Limestone
20	324LKNS	Lake Neosho Shale Member of Altamount Limestone
20	324MCKS	Myrick Station Limestone Member of Pawnee Limestone
20	324MCRK	Mine Creek Shale Member of Pawnee Limestone
20	324MLBR	Mulberry Coal Bed of Bandera Shale
20	324MLKY	Mulky Coal Bed of Cabaniss Formation
20	324MNRL	Mineral Coal Bed of Cabaniss Formation
20	324NRFL	Norfleet Limestone Member of Lenapah Limestone
20	324NTRL	Neutral Coal Bed of Krebs Formation
20	324PRFM	Perry Farm Shale Member of Lenapah Limestone
20	324PSLVM	Middle Pennsylvanian Series
20	324ROWE	Rowe Coal Bed of Krebs Formation
20	324RVRN	Riverton Coal Bed of Krebs Formation
20	324SCMN	Scammon Coal Bed of Cabaniss Formation
20	324SMMT	Summit Coal Bed of Little Osage Shale Member of Fort
Scott Limestone		
20	324STIC	Stice Coal
20	324TEBO	Tebo Coal Bed of Cabaniss Formation
20	324TINA	Tina Limestone Member of Altamount Limestone
20	324TIWH	Tiawah Limestone Bed of Cabaniss Formation
20	324WHLR	Wheeler Coal of Verdigris Formation
20	324WLRJ	Walt Johnson Sandstone Member of Nowata Shale
20	324WPBG	Wier Pittsburg Coal Bed of Cabaniss Formation
20	324WRBG	Warrensburg Sandstone
20	324WRLD	Worland Limestone Member of Altamount Limestone
20	324WRNR	Warner Sandstone Member of Krebs Formation

20	325ALMN	Altamont Limestone
20	325BDRQ	Bandera Quarry Sandstone Member of Bandera Shale
20	325BJCK	Bluejacket Sandstone Member of Krebs Formation
20	325BKJC	Blackjack Creek Limestone Member of Fort Scott Limestone
20	325BNDR	Bandera Shale
20	325CELS	Chelsea Sandstone Member of Cabaniss Formation
20	325CHLS	Chelsea Sandstone Member of Cabaniss Formation
20	325CHRK	Cherokee Group
20	325DSMS	Des Moinesian Series
20	325FRSC	Fort Scott Limestone
20	325HGVL	Higginsville Limestone Member of Fort Scott Limestone
20	325HLDV	Holdenville Shale
20	325KRBS	Krebs Formation
20	325KREB	Krebs Formation
20	325LBTT	Labette Shale
20	325LLOG	Little Osage Member of Fort Scott Limestone
20	325LNPH	Lenapah Limestone
20	325MRMN	Marmaton Group
20	325NOWT	Nowata Shale
20	325PWNE	Pawnee Limestone
20	325SVLL	Seville Limestone Member of Krebs Formation
20	325VRDG	Verdigris Limestone Member of Cabaniss Formation
20	325WRNR	Warner Sandstone Member of Krebs Formation
20	326ATKN	Atokan Series
20	327KRNY	Kearney Formation
20	327MRRN	Morrowan Stage
20	327PSLVL	Lower Pennsylvanian Series
20	327PVMP	Pennsylvanian-Mississippian Series
20	328MRRN	Morrowan Series
20	330CTNG	Chattanooga Shale
20	330MSSP	Mississippian System
20	331CWLY	Cowley Formation
20	331MSSPU	Mississippian, Upper
20	332CRSN	Chesteran Stage
20	332CSRN	Chesterian Series
20	333MRMC	Meramecian Series
20	333SGVV	Ste. Genevieve Limestone
20	333SLEM	Salem Limestone
20	333SPRG	Spergen Limestone
20	333STLS	St. Louis Limestone
20	333WARS	Warsaw Limestone
20	333WRSW	Warsaw Limestone
20	337BOIC	Boice Shale
20	337CHUT	Chouteau Limestone
20	337CMPN	Compton Limestone
20	337MPDV	Mississippian-Devonian System
20	337MSSPL	Mississippian, Lower
20	337SDLI	Sedalia Dolomite
20	337STJO	St Joe Limestone Member of Boone Formation
20	338BRLG	Burlington Limestone
20	338FRGL	Fern Glen Limestone
20	338KKUK	Keokuk Limestone
20	338OSGE	Osagean Series
20	338OSGEO	Osagean Stage

20	338RSPG	Reeds Spring Limestone
20	339GLMC	Gilmore City Limestone
20	339KNDR	Kinderhookian Series
20	339NRTV	Northview Shale
20	340DVNN	Devonian System
20	340HNTN	Hunton Group
20	340MSNR	Misener Sandstone Member of Chattanooga Shale
20	344DVNNM	Devonian, Middle
20	344DVSL	Middle Devonian-Lower Silurian Series
20	347DVSL	Devonian-Silurian Systems
20	350SLRN	Silurian System
20	357CMNL	Chimney Hill Dolomite
20	357SLRNL	Silurian, Lower
20	360ODVC	Ordovician System
20	361MQKT	Maquoketa Shale
20	361ODVCU	Ordovician, Upper
20	361VKMK	Viola Limestone
20	364ODVCM	Ordovician, Middle
20	364PLVL	Platteville Formation
20	364SMPS	Simpson Group
20	364STPR	St Peter Sandstone
20	367ABCK	Arbuckle Group
20	367CRJF	Cotter-Jefferson City Dolomite
20	367CTTR	Cotter Dolomite
20	367GNTR	Gunter Sandstone Member of Gasconade Dolomite
20	367GSCD	Gasconade Dolomite
20	367ODVCL	Ordovician, Lower
20	367OVCB	Ordovician-Cambrian Systems
20	367RBDX	Roubidoux Formation
20	367VNBR	Van Buren Formation
20	368JFRC	Jefferson City Dolomite
20	370CMBR	Cambrian System
20	371BNTR	Bonneterre Dolomite
20	371CMBRU	Cambrian, Upper
20	371EMNC	Eminence Dolomite
20	371HCRK	Honey Creek Limestone
20	371LMRG	Lamotte-Reagan Sandstone
20	371LMTT	Lamotte Sandstone
20	371REGN	Reagan Sandstone
20	400PCMB	Precambrian Erathem
20	400RICE	Rice Formation
20	BASEMENT	Basement
20	BEDROCK	Bedrock
21	100CNZC	Cenozoic Erathem
21	110QRNR	Quaternary System
21	111ALVM	Holocene Alluvium
21	111AMOT	Alluvium Along Mississippi River and Ohio River
Tributary Streams		
21	111CLVM	Colluvium
21	111HLCN	Holocene Series
21	112CNTL	Continental Deposits
21	112CNTLS	Continental Deposits Silt and Sand
21	112HLFV	High-Level Fluvial Deposits
21	112LAKE	Lake Deposits

21	112LFTT	Lafayette Gravel
21	112LOSS	Loess
21	112ORLT	Ohio River Deposits, Lower Terrace
21	112ORUT	Ohio River Deposits, Upper Terrace
21	112OTSH	Outwash
21	112PLSC	Pleistocene Series
21	112TILL	Till
21	112TRRC	Terrace Deposits
21	120TRTR	Tertiary System
21	124CBWX	Claiborne and Wilcox Formations (Groups)
Undifferentiated		
21	124CCKF	Cockfield Formation of Claiborne Group
21	124CCKFJ	Cockfield Through Jackson Formations
21	124CKFJ	Cockfield Through Jackson Formations
21	124CKMN	Cook Mountain Formation of Claiborne Group
21	124CKMNG	Cook Mountain Formation of Claiborne Group
21	124CLBR	Claiborne Group
21	124EOCN	Eocene Series
21	124JCKS	Jackson Group
21	124SPRT	Sparta Sand of Claiborne Group
21	124SPRTC	Sparta Sand of Claiborne Group
21	124TLLT	Tallahatta Formation of Claiborne Group
21	124TLLTC	Tallahatta Formation of Claiborne Group
21	124WLCX	Wilcox Formation (Group)
21	124WLCXG	Wilcox Group
21	125COCK	Clayton and Owl Creek Formations, Paleocene-Cretaceous
21	125PLCN	Paleocene Series
21	125PRCK	Porters Creek Clay
21	200MSZC	Mesozoic Erathem
21	210CRCS	Cretaceous System
21	211CRCSU	Upper Cretaceous Series
21	211MCNR	McNairy Formation
21	211TSCL	Tuscaloosa Formation
21	300PLZC	Paleozoic Erathem
21	320PSLV	Pennsylvanian System
21	321HNSH	Henshaw Formation
21	321HSLM	Henshaw and Lisman Formations Undifferentiated
21	321LSMN	Lisman Formation
21	321MGCG	Monongahela and Conemaugh Formations
21	321PSLVU	Upper Pennsylvanian Series
21	321STRG	Sturgis Formation
21	324BRTT	Breathitt Formation
21	324CDDL	Carbondale Formation
21	324CBDT	Carbondale and Tradewater Formations Undifferentiated
21	324CRBN	Corbin Sandstone Member of Lee Formation
21	324CSVL	Caseyville Formation
21	324HNCE	Hance Formation
21	324LEE	Lee Formation
21	324MGHC	Mingo and Hance Formations
21	324MNGO	Mingo Formation
21	324PSLVM	Middle Pennsylvanian Series
21	324TDCV	Tradewater-Caseyville Formations, Undifferentiated
21	324TRDR	Tradewater Formation (Anvil Rock Sandstone)
21	325WEIR	Weir Formation

21	327PSLVL	Lower Pennsylvanian Series
21	330CHRT	Chert Rubble
21	330MSSP	Mississippian System
21	331BNGR	Bangor Limestone
21	331HARL	Hartselle Formation
21	331HRSL	Hartselle Formation
21	331MSSPU	Mississippian, Upper
21	331PNNG	Pennington Formation
21	332AXVS	Aux Vases Sandstone
21	332BCKK	Beech Creek Limestone Member of Golconda Formation
21	332BFLW	Buffalo Wallow Formation
21	332BGCF	Big Clifty Limestone Member of Golconda Formation
21	332BIGC	Big Clifty Limestone Member of Golconda Formation
21	332BTHL	Bethel Sandstone
21	332BVBD	Beaver Bend Limestone
21	332BVBM	Beaver Bend Limestone and Mooretown (Bethel) Formation
21	332BVBP	Beaver Bend and Paoli Limestones
21	332CLOR	Clore Limestone
21	332CPRS	Cypress Sandstone (Elwren Sandstone)
21	332CSTR	Chesterian Series
21	332DGON	Degonia Sandstone
21	332GLCD	Golconda Formation (Big Lime of W Ky)
21	332GLCDB	Golconda Formation (Big Lime of W Ky)
21	332GLND	Glen Dean Limestone
21	332GRKN	Girkin Formation
21	332HABG	Hardinsburg Sandstone (Jones Sand)
21	332HDBG	Hardinsburg Sandstone (Jones Sand)
21	332HNEY	Haney Limestone Member of Golconda Formation
21	332KDDR	Kidder Limestone Member of Monteagle Limestone
21	332KNKD	Kinkaid Limestone
21	332LCFD	Leitchfield Formation
21	332MNGL	Monteagle Limestone
21	332MNRD	Menard Limestone
21	332MXON	Maxon Sandstone
21	332PACK	Paint Creek Shale (Limestone)
21	332PCRK	Paint Creek Shale (Limestone)
21	332PLSN	Palestine Sandstone
21	332POLI	Paoli Limestone
21	332PRGN	Paragon Formation
21	332RENL	Renault Formation (Limestone)
21	332RLVL	Reelsville Limestone
21	332RNLT	Renault Formation (Limestone)
21	332RVCF	Ravencliff Sandstone
21	332SDSM	Surficial Deposits of Slumped Material
21	332SLDE	Slade Formation
21	332SLDEL	Slade Formation (Lower)
21	332SLDEU	Slate Formation (Upper)
21	332SMPL	Sample Sandstone
21	332TSPG	Tar Springs Sandstone
21	332VINN	Vienna Limestone
21	332WLBG	Waltersburg Sandstone
21	333FRDN	Fredonia Limestone Member of Ste. Genevieve Limestone
21	333HDBG	Harrodsburg Limestone

21	333LRVR	Lost River Chert Bed of Fredonia Limestone Mbr of Ste. Genevieve Ls.
21	333LVIS	Levias Limestone Member of St Genevieve Limestone
21	333MCK	Mcclosky Sand
21	333MRMC	Meramecian Series
21	333RCLR	Rosiclare Sandstone Member of Ste. Genevieve Limestone
21	333RNFR	Renfro Member of Slade Formation
21	333SGSL	Ste. Genevieve-St Louis Limestones, Undifferentiated
21	333SGVV	Ste. Genevieve Limestone
21	333SLEM	Salem Limestone
21	333SLSM	St Louis and Salem Limestones Undifferentiated
21	333SMST	Somerset Shale Member of Warsaw Limestone
21	333SMWR	Salem and Warsaw Formations
21	333STLS	St. Louis Limestone
21	333STLSL	Lower Limestone Member of St. Louis Limestone
21	333STLSU	Upper Limestone Member of St. Louis Limestone
21	333WARS	Warsaw Limestone
21	333WRSW	Warsaw Limestone
21	337BBDF	Berea Sandstone and Bedford Shale
21	337BDFD	Bedford Shale
21	337BERE	Berea Sandstone
21	337CBLL	Cowbell Member of Borden Formation
21	337CNVL	Cane Valley Limestone Member of Fort Payne Formation
21	337FRPN	Fort Payne Chert/formation
21	337GRGR	Grainger Formation
21	337HLGP	Halls Gap Member of Borden Formation
21	337KNFL	Knifley Sandstone Member of Fort Payne Formation
21	337MPDV	Mississippian-Devonian System
21	337MSSPL	Mississippian, Lower
21	337NNCY	Nancy Member of Borden Formation
21	337NWMN	Newman Limestone (Big Lime of E. Ky)
21	337SNBR	Sunbury Shale
21	337WILD	Wildie Member of Borden Formation
21	338BORD	Borden Formation (Fort Payne and New Providence)
21	338BRDN	Borden Formation (Fort Payne and New Providence)
21	338INJN	Injun Sand
21	338NPVC	New Providence Shale
21	338OSGE	Osagean Series
21	338WEIR	Weir Sand
21	338WVRL	Waverly Group
21	340DVNN	Devonian System
21	341DVNNU	Devonian, Upper
21	341KBLH	Knob Lick and Hardin Sandstones
21	341NALB	New Albany Shale
21	344BCBO	Boyle Limestone and Crab Orchard Formation
21	344BOYL	Boyle Limestone
21	344CLCK	Clear Creek Limestone
21	344DCCK	Dutch Creek Sandstone
21	344DVNNM	Devonian, Middle
21	344SBJV	Sellersburg and Jeffersonville Limestones Equivalents (Onondaga Ls.)
21	347BAKB	Backbone Limestone (Subsurface)
21	347BCKB	Backbone Limestone (Subsurface)
21	347BILY	Bailey Limestone

21	350SLRN	Silurian System
21	354BRPR	Brownsport Formation
21	354BSHR	Bisher Limestone
21	354CBOB	Crab Orchard and Brassfield Formations
21	354CBOC	Crab Orchard Formation
21	354CLNN	Clinton Formation
21	354DXON	Dixon Formation (Subsurface)
21	354LEGO	Lego Limestone Member of Wayne Formation
21	354LOGD	Laurel Dolomite and Osgood Formation
21	354LURL	Laurel Dolomite
21	354LVLG	Louisville Limestone and Lego Ls Member of Wayne Fm (Big Six Sand)
21	354LVLL	Louisville Limestone and Laurel Dolomite
21	354OGBF	Osgood Formation and Brassfield Dolomite
21	354OSGD	Osgood Formation
21	354SLDR	Waldron Shale
21	354SLIN	Salina Formation
21	354SLRNM	Silurian, Middle
21	355LCKP	Lockport Dolomite
21	355NIGR	Niagaran Series
21	357BAFD	Brassfield Limestone (Dolomite)
21	357BFLD	Brassfield Limestone (Dolomite)
21	357SLRNL	Silurian, Lower
21	360ODVC	Ordovician System
21	361ALCK	Ashlock Formation
21	361ALCKL	Lower Ashlock Formation
21	361ALCKU	Upper Ashlock Formation
21	361BLFK	Bull Fork Formation
21	361CLCK	Calloway Creek Limestone
21	361CLFR	Clays Ferry Formation
21	361CMBD	Cumberland Formation (Richmond Group)
21	361DKAK	Drakes and Ashlock Formations
21	361DKBF	Drakes and Bull Fork Formations
21	361DRKS	Drakes Formation
21	361EDEN	Eden Group (Million Shale)
21	361EDENS	Eden Group (Million Shale)
21	361FRVW	Fairview Formation
21	361GLBR	Gilbert Member of Ashlock Formation
21	361GRLK	Grant Lake Limestone
21	361GRRD	Garrard Siltstone
21	361KOPE	Kope Formation
21	361KPCF	Kope and Clays Ferry Formations
21	361LPRS	Leipers Limestone
21	361ODVCU	Ordovician, Upper
21	361PCVL	Preachersville Member of Drakes Formation
21	361PPLS	Point Pleasant Formation or Tongue of Clays Ferry Formation
21	361REBA	Reba Member of Ashlock Formation
21	361RLND	Rowland Member of Drakes Formation
21	361SGCK	Stingy Creek Member of Ashlock Formation
21	361TATE	Tate Member of Ashlock Formation
21	361TRRL	Terrill Member of Ashlock Formation
21	364BRNN	Brannon Member of Lexington Limestone
21	364CDVL	Curdsville Limestone Member of Lexington Limestone

21	364CMPN	Camp Nelson Limestone
21	364CNTN	Cynthiana Formation (Granville)
21	364DVLH	Devil's Hollow Member of Lexington Limestone
21	364EVER	Everton Formation (Subsurface)
21	364EVRN	Everton Formation (Subsurface)
21	364GCDV	Grier and Curdsville Limestone Members of Lexington Limestone
21	364GRIR	Grier Limestone Member of Lexington Limestone
21	364HGBG	High Bridge Group
21	364LGCV	Logana and Curdsville Limestone Members of Lexington Limestone
21	364LOGN	Logana Limestone Member of Lexington Limestone
21	364LXNG	Lexington Limestone
21	364MLBG	Millersville Member of Lexington Limestone
21	364MRFB	Murfreesboro Limestone
21	364OCPN	Oregon and Camp Nelson Limestones
21	364ODVCM	Ordovician, Middle
21	364PRVL	Perryville Limestone Member of Lexington Limestone
21	364SLPW	Sulphur Well Member of Lexington Limestone
21	364SRVR	Stones River (Black River) Group
21	364STPR	St Peter Sandstone
21	364TG DG	Tanglewood and Grier Limestone Members of Lexington Limestone
21	364TGLD	Tanglewood Limestone Member of Lexington Limestone
21	364TRNN	Trenton Limestone
21	364TYRN	Tyrone Limestone
21	367CPRR	Chepultepec Dolomite and Rose Run Sandstone
21	367KNOX	Knox Dolomite
21	367NLGV	Newala-Longview Dolomite
21	367ODVCL	Ordovician, Lower
21	367OVCB	Ordovician-Cambrian Systems
21	370AMER	Antietam-Erwin Quartzites, Undifferentiated
21	370CMBR	Cambrian System
21	370TMSN	Tomstown Dolomite
21	371CMBRU	Cambrian, Upper
21	371CPRG	Copper Ridge Dolomite
21	371MSMN	Mount Simon Sandstone
21	377CMBRL	Lower Cambrian Series
21	377ROME	Rome Formation
21	BASEMENT	Basement
21	BEDROCK	Bedrock
22	100CNZC	Cenozoic Erathem
22	100PNCL	Ponchatoula Aquifer, Undifferentiated
22	110LMYN	Le Moyne Formation
22	110QRNR	Quaternary System
22	111ALVM	Holocene Alluvium
22	111DLTCY	Deltaic Deposits, Younger
22	111HLCN	Holocene Alluvium
22	111MRMN	Mermentau Member of Le Moyne Formation
22	111NLLV	Natural Levee Deposits
22	111NORLC	New Orleans Aquifer System Surficial Confining Unit
22	111PNBR	Point-Bar Deposits
22	111SLNO	Shallow Aquifers of New Orleans Area
22	11202LC	200-foot Sand of Lake Charles Area

22	11202NO	200-foot Sand of New Orleans Area
22	11204BR	400-foot Sand of Baton Rouge Area
22	11204NO	400-foot Sand of New Orleans Area
22	11205BR	400- and 600-ft Sands of Baton Rouge Area
22	11205LC	500-foot Sand of Lake Charles Area
22	11206BR	600-foot Sand of Baton Rouge Area
22	11207BR	600 and 800 Foot Sands of Baton Rouge Area
22	11207LC	700-foot Sand of Lake Charles Area
22	11207NO	700-foot Sand of New Orleans Area
22	11212NO	1200-foot Sand of New Orleans Area
22	112ABVL	Abbeville Aquifer, Pleistocene Age
22	112ACFL	Atchafalaya Aquifer
22	112ALVL	Alluvial Aquifers, Undifferentiated
22	112ALVLC	Alluvial Aquifers Surficial Confining Units
22	112BNTL	Bentley Formation
22	112CHCT	Chicot Aquifer, undifferentiated
22	112CHCTC	Chicot Aquifer System Surficial Confining Unit
22	112CHCTE	Chicot Equivalent Aquifer System (Southeast Louisiana)
22	112CHCTL	Chicot Aquifer, Lower
22	112CHCTS	Chicot Aquifer, Shallow Sand
22	112CHCTU	Chicot Aquifer, Upper
22	112DDMRO	Deltaic Deposits of Mississippi River Valley, Older
22	112GRMC	Gramercy Aquifer
22	112GZLS	Gonzales Aquifer
22	112GZNO	Gonzales-New Orleans Aquifer
22	112LEBU	Lebeau Member of Le Moyne Formation
22	112MGMR	Montgomery Aquifer
22	112MOGM	Montgomery Aquifer
22	112MRVA	Mississippi River Alluvial Aquifer
22	112MRVAC	Mississippi River Alluvial Aquifer Surficial Confining
Unit		
22	112NORC	Norco Aquifer
22	112NORL	New Orleans Aquifer System
22	112ORVA	Ouachita River Alluvial Aquifer
22	112ORVAC	Ouachita River Alluvial Aquifer Surficial Confining Unit
22	112PLQM	Plaquemine Aquifer, Pleistocene Age
22	112PLSC	Pleistocene Series
22	112PNCLU	Upper Ponchatoula Aquifer
22	112PRAR	Prairie Aquifer
22	112PRIR	Prairie Formation
22	112RRVA	Red River Alluvial Aquifer
22	112RRVAC	Red River Alluvial Aquifer Surficial Confining Unit
22	112SANDB	Shallow Sands of Baton Rouge Area
22	112SESC	Southeast Louisiana Aquifer System Surficial Confining
Unit		
22	112SLBR	Shallow Sands of Baton Rouge Area
22	112SLGZ	Shallow Aquifer of Gonzales Area
22	112SRVA	Sabine River Alluvial Aquifer
22	112UPTC	Upland Terrace Aquifer
22	112UPTCC	Upland Terrace Aquifer Surficial Confining Unit
22	112VLTR	Valley Trains, Pleistocene
22	112WLBN	Williana-Bentley Aquifer
22	112WLLN	Williana Formation
22	120ABIT	Abita Aquifer

22	120CVGN	Covington Aquifer
22	120KNTD	Kentwood Aquifer
22	120SLDL	Slidell Aquifer
22	120TRTR	Tertiary System
22	12101FP	Zone 1 Florida Parishes and Point Coupee Parish
22	12102FP	Zone 2 Florida Parishes and Point Coupee Parish
22	12108BR	800-foot Sand of Baton Rouge Area
22	12109BR	800 and 1200 Foot Sands of Baton Rouge Area
22	12110BR	1000-foot Sand of Baton Rouge Area
22	12111BR	1000 and 1200 Foot Sands of Baton Rouge Area
22	12112BR	1200-foot Sand of Baton Rouge Area
22	12113BR	1200 and 1500 Foot Sands of Baton Rouge Area
22	12115BR	1500-foot Sand of Baton Rouge Area
22	12116BR	1500- and 1700-ft Sands of Baton Rouge Area, Pliocene
Age		
22	12117BR	1700-foot Sand of Baton Rouge Area
22	121BGBC	Big Branch Aquifer
22	121BLCK	Blounts Creek Aquifer
22	121EVAG	Evangeline Aquifer (Pliocene-Miocene)
22	121EVGL	Evangeline Aquifer
22	121EVGLC	Evangeline Aquifer Surficial Confining Unit
22	121EVGLE	Evangeline Equivalent Aquifer System (Southeast
Louisiana)		
22	121FOLY	Foley Formation
22	121MMOU	Mamou Member of Foley Formation
22	121PCMC	Pliocene-Miocene Series
22	121PLCN	Pliocene Series
22	121PNCLL	Lower Ponchatoula Aquifer
22	121SPGL	Steep Gully Member of Foley Formation
22	12203FP	Zone 3 Florida Parishes and Point Coupee Parish
22	12219BR	1700 and 2000 Foot Sands of Baton Rouge Area
22	12220BR	2000-foot Sand of Baton Rouge Area
22	12223BR	2000- and 2400-ft Sands of Baton Rouge Area, Miocene Age
22	12224BR	2400-foot Sand of Baton Rouge Area
22	12226BR	2400 and 2800 Foot Sands of Baton Rouge Area
22	12228BR	2800-foot Sand of Baton Rouge Area
22	122AMIT	Amite Aquifer
22	122CACK	Castor Creek Aquifer
22	122CARB	Carnahan Bayou Aquifer
22	122CATL	Catahoula Aquifer
22	122CRCK	Castor Creek Aquifer
22	122CRCKC	Castor Creek Confining Unit
22	122CRNB	Carnahan Bayou Member of Fleming Formation
22	122CTHL	Catahoula Formation
22	122CTLHE	Catahoula Equivalent Aquifer System (Southeast
Louisiana)		
22	122DGHL	Dough Hills Member of Fleming Formation
22	122DGHLC	Dough Hills Confining Unit
22	122DOGH	Dough Hills Aquifer
22	122FLMG	Fleming Formation
22	122FRKL	Franklinton Aquifer
22	122HMND	Hammond Aquifer
22	122JAPR	Jasper Aquifer System
22	122JSPR	Jasper Aquifer

22	122JSPRC	Jasper Aquifer System Surficial Confining Unit
22	122JSPRE	Jasper Equivalent Aquifer System (Southeast Louisiana)
22	122LENAC	Lena Confining Unit
22	122MOCN	Miocene Series
22	122RMSY	Ramsay Aquifer
22	122TCFC	Tchefuncta Aquifer, Miocene Age
22	122WICK	Williamson Creek Aquifer
22	122WMCK	Williamson Creek Member of Fleming Formation
22	123OGCE	Oligocene-Eocene Series
22	123OLGC	Oligocene Series
22	123SNDL	Sandel Formation
22	123VKBG	Vicksburg Group
22	123VKBJC	Vicksburg-Jackson Confining Unit
22	124CANR	Cane River Aquifer
22	124CARZ	Carrizo Aquifer
22	124CCKF	Cockfield Formation of Claiborne Group
22	124CCKFC	Cockfield Aquifer Surficial Confining Unit
22	124CKMN	Cook Mountain Formation
22	124CKMNC	Cook Mountain Confining Unit
22	124CLBR	Claiborne Group
22	124COKF	Cockfield Aquifer
22	124COOK	Cook Mountain Aquifer
22	124CRRZ	Carrizo Sand
22	124CRVR	Cane River Formation
22	124CRVRC	Cane River Confining Unit
22	124CRWL	Carrizo-Wilcox Aquifer
22	124CRWLC	Carrizo-Wilcox Aquifer System Surficial Confining Unit
22	124DLHL	Dolet Hills Aquifer
22	124ECPC	Eocene-Paleocene Series
22	124EOCN	Eocene Series
22	124JCKS	Jackson Group
22	124NBRN	Naborton Aquifer
22	124NBRNC	Naborton Confining Unit
22	124SPAR	Sparta Aquifer
22	124SPARC	Sparta Aquifer Surficial Confining Unit
22	124SPRT	Sparta Sand
22	124SPRTC	Sparta Aquifer Surficial Confining Unit
22	124WLCX	Wilcox Group
22	124WLCXU	Wilcox Aquifer, Upper
22	125CLTN	Clayton Formation
22	125MDWY	Midway Group
22	125PRCK	Porters Creek Clay
22	210CRCS	Cretaceous System
22	BASEMENT	Basement
22	BEDROCK	Bedrock
23	111ALVM	Holocene Alluvium
23	111BECH	Beach Deposits
23	111CDBC	Coastal Dune and Beach Deposits
23	111EOLN	Eolian Deposits
23	111SWMP	Swamp Deposits
23	112BECH	Beach Deposits
23	112DFSFE	Drift, Stratified, Early
23	112ICCC	Ice-Contact Deposits, Pleistocene
23	112LKGC	Lake Deposits, Glacial

23	112MRIN	Marine Deposits
23	112OTSH	Outwash
23	112OVTR	Outwash, Valley Train
23	112SRFD	Stratified Deposits, Undifferentiated
23	112TILL	Till
23	112TMLM	Terminal Moraine Deposits
23	300BDRK	Bedrock Undifferentiated
23	320PEVB	Pennsylvanian-Cambrian Systems, Undivided
23	320PVCB	Pennsylvanian (?) - Cambrian (?) Systems, Undivided
23	340BLBK	Bell Brook Formation
23	340DVNN	Devonian System
23	340GRNC	Granitic Rocks
23	344MPLN	Mapleton Sandstone
23	347CPMN	Chapman Sandstone
23	347DCKF	Dockendorff Group
23	347EDMH	Edmunds Hill Andesite
23	347HDGG	Hedgehog Formation
23	350PRHM	Perham Formation
23	350SLRN	Silurian System
23	350SMML	Smyrna Mills Formation
23	350SPGV	Spragueville Formation
23	354FCVL	Frenchville Formation
23	357CRML	Carys Mills Formation
23	360CDRG	Chandler Ridge Formation
23	360ODVC	Ordovician System
23	361PLMN	Pyle Mountain Argillite
23	BASEMENT	Basement
23	BEDROCK	Bedrock
24	000SPRL	Saprolite
24	100CNZC	Cenozoic Erathem
24	110AFCL	Artificial Fill
24	110ALVM	Quaternary Alluvium
24	110CLVF	Colluvial Fan Deposits
24	110CLVM	Colluvium
24	110MNWS	Mountain Wash
24	110QRNR	Quaternary System
24	110TRRC	Terrace Deposits
24	111BRRR	Barrier Sand
24	111HLCN	Holocene Series
24	111LLND	Lowland Deposits
24	111SPOL	Spoil
24	111TDLM	Tidal Marsh Deposits
24	112BRDN	Brandywine Formation
24	112BRND	Brandywine Formation
24	112BVDM	Beaverdam Sand
24	112CLMB	Columbia Group
24	112COLB	Columbia Formation
24	112IRSR	Ironshire Formation
24	112KILD	Kent Island Formation
24	112MTCV	Minor Terrace Deposit and Colluvium
24	112OMAR	Omar Formation
24	112PCPC	Pleistocene-Pliocene Series
24	112PLSC	Pleistocene Series
24	112PMLC	Pamlico Formation

24	112PRBG	Parsonsborg Formation
24	112RDGV	Red Gravelly Facies
24	112SALB	Salisbury Aquifer
24	112SDLD	Sunderland Formation
24	112SLBR	Salisbury Aquifer
24	112SNPX	Sinepuxent Formation
24	112TLBT	Talbot Formation
24	112UPLD	Upland Deposits
24	112WCML	Wicomico Formation
24	112WLSN	Walston Silt
24	120TRTR	Tertiary System
24	120UPLD	Upland Gravel
24	121BRMR	Bryn Mawr Formation
24	121BVDM	Beaverdam Sand
24	121PLCN	Pliocene Series
24	121WLSN	Walston Silt
24	122CLVR	Calvert Formation
24	122CPNK	Choptank Formation
24	122CSLD	Cheswold Aquifer
24	122CSPK	Chesapeake Group
24	122FDBG	Federalsburg Aquifer
24	122FRDC	Frederica Aquifer
24	122MNKN	Manokin Aquifer
24	122MOCN	Miocene Series
24	122OCNC	Ocean City Aquifer
24	122PCMK	Pocomoke Aquifer
24	122PNSK	Pensauken Formation
24	122SMRS	St Marys Formation
24	122YRKN	Yorktown Formation
24	123OLGC	Oligocene Series
24	124ECPC	Eocene-Paleocene Series
24	124EOCN	Eocene Series
24	124NNJM	Nanjemoy Formation
24	124PMNK	Pamunkey Group
24	124PNPN	Piney Point Formation
24	125AQRC	Aquia and Rancocas Aquifer
24	125AQUI	Aquia Formation
24	125BRGS	Brightseat Formation
24	125HRRS	Hornerstown Formation
24	125MAPN	Mattaponi Aquifer
24	125MRLB	Marlboro Clay
24	125MTPN	Mattaponi (?) Aquifer
24	125PLCN	Paleocene Series
24	125RCCS	Rancocas Formation
24	125VNCN	Vincentown Formation
24	200MSZC	Mesozoic Erathem
24	210CRCS	Cretaceous System
24	211CRCSU	Upper Cretaceous Series
24	211EGLS	Englishtown Formation
24	211MCVL	Merchantville Formation
24	211MGTY	Magothy Formation
24	211MLEG	Marshalltown and Englishtown Formations, Undivided
24	211MLRL	Mount Laurel Sand
24	211MNMT	Monmouth Formation

24	211MRSL	Marshalltown Formation
24	211MTWN	Matawan Formation
24	211RRTN	Raritan Formation
24	211SVRN	Severn Formation
24	217ARDL	Arundel Formation
24	217CLCK	Canal Creek Aquifer In the Patapsco Formation
24	217CRCSL	Lower Cretaceous Series
24	217LPLT	La Plata Aquifer
24	217NNMR	Nonmarine Cretaceous Aquifer
24	217POMC	Potomac Group
24	217PPSC	Patapsco Formation
24	217PPSCL	Lower Patapsco Aquifer In the Patapsco Formation
24	217PPSCU	Upper Patapsco Aquifer In the Patapsco Formation
24	217PTMC	Potomac Group
24	217PTXN	Patuxent Formation
24	217WLDF	Waldorf Aquifer
24	217WSTD	Westwood Aquifer
24	220DIBS	Jurassic Diabase
24	230TCBM	Triassic Basement Rocks, Undifferentiated
24	230TRSC	Triassic System
24	231BALB	Balls Bluff Siltstone
24	231BLBF	Balls Bluff Siltstone
24	231BLRN	Bull Run Formation
24	231DIBS	Diabase Dikes and Sills
24	231GBRG	Gettysburg Shale
24	231LBRG	Leesburg Limestone Conglomerate Member of Bull Run Formation
24	231MANS	Manassas Sandstone
24	231MNSS	Manassass Sandstone
24	231NOXF	New Oxford Formation
24	231NOXFB	New Oxford Formation Basal Conglomerate
24	231NWRK	Newark Group
24	231TRSCU	Upper Triassic Series
24	300AMPB	Amphibolite Lithofacies of the Wissahickon Formation, Undivided
24	300BCMV	Bachman Valley Formation
24	300BLDR	Boulder Gneiss of Wissahickon Formation
24	300BLMR	Baltimore Gabbro Complex
24	300CCKV	Cockeysville Marble
24	300DDHL	Druid Hill Amphibolite Member of James Run Formation
24	300ELCC	Ellicott City Granodiorite
24	300GBRC	Gabbroic Rock, Undifferentiated
24	300GBSP	Gabbro and Serpentine At Gray Hill
24	300GEMR	Gneisses, On Garret Island, Near Elk Milles, & Rolling Mill, Undivided
24	300GLFD	Guilford Quartz Monzonite
24	300GLLS	Gillis Formation
24	300GLPF	Gilpins Falls Member of James Run Formation
24	300GLRM	Glenarm Series
24	300GPDR	Gunpowder Granite
24	300GRGN	Georgetown Mafic Complex
24	300GRNC	Granitic Rock, Undifferentiated
24	300IJMV	Ijamsville Formation
24	300IJVM	Ijamsville Formation-Marburg Schist, Undifferentiated

24	300JMSR	James Run Formation
24	300KNSG	Kensington Quartz Diorite
24	300LBRN	Libertytown Metarhyolite
24	300LFPF	Little Northeast Cr., Frenchtown, Principio Furnace
Mbrs, James Run Fm		
24	300LPLC	Lower Pelitic Schist of Wissahickon Formation
24	300MBAB	Metagabbro and Amphibolite
24	300MCGM	Metaconglomerate of Wissahickon Formation
24	300MFIC	Mafic Breccia
24	300MGAB	Metagraywacke With Amphibolites of Wissahickon (?)
Formation		
24	300MGCK	Metagraywacke of Wissahickon Formation
24	300MQMG	Muscovite Quartz Monzonite Gneiss
24	300MRBG	Marburg Formation
24	300MWSG	Mount Washington Amphibolite
24	300NBCK	Norbeck Quartz Diorite
24	300OELL	Oella Formation
24	300PCSC	Pelitic Shist of Wissahickon (?) Formation
24	300PGMT	Pegmatite Dikes
24	300PLCG	Pelitic Gneiss of Wissahickon (?) Formation
24	300PLGV	Pleasant Grove Schist
24	300PLZC	Paleozoic Erathem
24	300PMZA	Pegmatite Quartz, Monzonite Gneiss and Alaskite Gneiss
24	300PNRN	Piney Run Formation
24	300PRDP	Port Deposit Gneiss
24	300PRTB	Prettyboy Schist
24	300PSAB	Pelitic Schist With Amphibolites of Wissahickon (?)
Formation		
24	300PZPC	Early Paleozoic-Late Precambrian Erathems,
Undifferentiated		
24	300QZQZ	Quartz Gabbro and Quartz Diorite Gneiss
24	300RELY	Relay Gneiss Member of James Run Formation
24	300SGFM	Sugarloaf Mountain Quartzite
24	300SLVR	Silver Run Limestone
24	300SMCK	Sams Creek Metabasalt
24	300STRS	Setters Formation
24	300UFGB	Ultramafic and Gabbroic Rocks
24	300UHBP	Felsite, Happy Valley Br., Big Elk Cr., Principio
Cr.mbrs, James Run F		
24	300UMFC	Ultramafic Rocks
24	300UPPC	Upper Pelitic Schist of Wissahickon Formation
24	300URBN	Urbana Formation
24	300VLCC	Volcanic Complex of Cecil County
24	300WDCK	Woodstock Quartz Monzonite
24	300WKFD	Wakefield Marble
24	300WSCK	Wissahickon Formation
24	307JMSR	James Run Formation
24	307RELY	Relay Gneiss Member of James Run Formation
24	310DNKD	Dunkard Group
24	310PRMN	Permian System
24	317PRMNL	Lower Permian Series
24	320PSLV	Pennsylvanian System
24	321CNMG	Conemaugh Formation
24	321MNGL	Monongahela Formation

24	321PSLVU	Upper Pennsylvanian Series
24	324ALGN	Allegheny Formation
24	324PSLVM	Middle Pennsylvanian Series
24	324PSVL	Pottsville Formation
24	324PVAG	Pottsville-Allegheny Formations, Undifferentiated
24	330MSSP	Mississippian System
24	331GRBR	Greenbrier Formation
24	331GREB	Greenbrier Formation
24	331MCCK	Mauch Chunk Formation
24	331MSSPU	Mississippian, Upper
24	337MSSPL	Mississippian, Lower
24	337POCN	Pocono Group
24	337POCO	Pocono Group
24	337PRSL	Purslane Sandstone
24	337RCKL	Rockwell Formation
24	340DVNN	Devonian System
24	341BRLR	Brallier Formation
24	341CMNG	Chemung Formation
24	341DVNNU	Devonian, Upper
24	341HMPR	Hampshire Formation
24	341HRRL	Harrell Shale
24	341JNGS	Jennings Formation
24	341PRKD	Parkhead Sandstone
24	341WDMN	Woodmont Formation
24	344DVNNM	Devonian, Middle
24	344HMLN	Hamilton Group
24	344MNNG	Mahantango Formation
24	344MRCL	Marcellus Shale
24	344NDMR	Needmore Shale
24	344RMNY	Romney Formation
24	344TIOG	Tioga Metabentonite
24	347DVNNL	Devonian, Lower
24	347HDBG	Helderberg Group
24	347KYSR	Keyser Limestone
24	347ORIK	Oriskany Group
24	347ORSK	Oriskany Group
24	347RDGL	Ridgeley Sandstone
24	347SRVR	Shriver Chert
24	350SLRN	Silurian System
24	351SLRNU	Silurian, Upper
24	351TNLY	Tonoloway Limestone
24	351WICK	Wills Creek Shale
24	351WLCK	Wills Creek Shale
24	352BMBG	Bloomsburg Formation
24	354CLIN	Clinton Group
24	354CLNN	Clinton Group
24	354KEEF	Keefer Sandstone
24	354KEFR	Keefer Sandstone
24	354MCKZ	Mc Kenzie Formation
24	354RCR	Rochester Shale
24	354ROCR	Rochester Shale
24	354RSHL	Rose Hill Formation
24	354SLRNM	Silurian, Middle
24	357SLRNL	Silurian, Lower

24	357TCRR	Tuscarora Sandstone
24	360CRDF	Cardiff Metaconglomerate
24	360MRGR	Morgan Run Formation
24	360ODVC	Ordovician System
24	360PCBM	Peach Bottom Slate
24	360SKVL	Sykesville Formation
24	360SKVLG	Sykesville Formation, Gneiss Member
24	360SKVLS	Sykesville Formation, Schist Member
24	361JUNT	Juniata Formation
24	361MRBG	Martinsburg Shale
24	361ODVCU	Ordovician, Upper
24	364CABB	Chambersburg Limestone
24	364CBBG	Chambersburg Limestone
24	364NMRK	New Market Limestone
24	364ODVCM	Ordovician, Middle
24	364RPRK	Row Park Limestone
24	364STPL	St Paul Group
24	367BKMN	Beekmantown Group
24	367GROV	Grove Limestone
24	367ODVCL	Ordovician, Lower
24	367PBGS	Pinesburg Station Dolomite
24	367RCKR	Rockdale Run Formation
24	367SNNG	Stonehenge Limestone
24	367SONG	Stonehenge Limestone
24	370ARBY	Araby Formation
24	370CMBR	Cambrian System
24	370DDHL	Druid Hill Amphibolite Member of James Run Formation
24	370GPDR	Gunpowder Gneiss
24	370HLFD	Holofield Layered Ultramafite
24	370LCRV	Loch Raven Schist
24	370PRCK	Peters Creek Schist
24	370PRHL	Perry Hall Gneiss
24	370RPBG	Raspeburg Amphibolite
24	371CCCG	Conococheague Limestone
24	371CMBRU	Cambrian, Upper
24	371CONG	Conococheague Limestone
24	371ELBK	Elbrook Formation
24	374CMBRM	Cambrian, Middle
24	377ANTM	Antietam Formation
24	377CHLH	Chilhowee Group
24	377CMBRL	Lower Cambrian Series
24	377FDCK	Frederick Limestone
24	377HRPR	Harpers Formation
24	377LUDN	Loudoun Formation
24	377SKVL	Sykesville Formation
24	377SKVLG	Gneiss Member, Sykesville Formation
24	377SKVLS	Schist Member, Sykesville Formation
24	377TMSN	Tomstown Dolomite
24	377WSBR	Waynesboro Formation
24	377WVRN	Weverton Formation
24	400BLMR	Baltimore Gneiss
24	400CATC	Catoctin Metabasalt
24	400CTCN	Catoctin Metabasalt
24	400GBGG	Granodiorite and Biotite Granite Gneiss

24	400GNSS	Gneiss Complex
24	400GNSSC	Gneiss Complex
24	400MTRL	Metarhyolite and Associated Pyroclastic Sediments
24	400PCMB	Precambrian Erathem
24	400SFRN	Swift Run Formation
24	400SGTS	Slaughterhouse Gneiss
24	400SMCK	Sams Creek Formation
24	410SKVL	Sykesville Formation
24	BASEMENT	Basement
24	BEDROCK	Bedrock
25	111ALVM	Holocene Alluvium
25	111BECH	Beach Deposits
25	111CLVM	Colluvium
25	111EOLN	Eolian Deposits
25	111FILL	Fill
25	111MRIN	Marine Deposits
25	111SDMN	Sediments, Undifferentiated
25	111SWMP	Swamp Deposits
25	112DELT	Delta Deposits
25	112ICCC	Ice-Contact Deposits, Including Eskers and Kames
25	112ICCCE	Ice-Contact Deposits, Including Eskers and Kames
25	112LCSR	Lacustrine Deposits
25	112MORN	Moraine Deposits, Except Ground Moraine and Drumlins
25	112MORND	Moraine Deposits, Except Ground Moraine and Drumlins
25	112MRIN	Marine Deposits
25	112OTSH	Outwash
25	112SRFD	Stratified Deposits, Undifferentiated
25	112TILL	Till
25	120SDMS	Sediments
25	200CRSL	Crystalline Rocks
25	210SDMS	Sediments, Undifferentiated
25	230IGNSE	Igneous Rocks, Extrusive
25	230IGNSI	Igneous Rocks, Intrusive
25	230SDMR	Triassic Sedimentary Rocks
25	231EBRL	East Berlin Formation
25	231HLYK	Holyoke Basalt
25	231HMPD	Hampden Basalt
25	231NHVN	New Haven Formation
25	231PRLD	Portland Formation
25	300CRSL	Crystalline Rocks, Undifferentiated
25	300CRSLC	Crystalline Rocks, Carbonate
25	300CRSLN	Crystalline Rocks, Noncarbonate
25	320CRSL	Crystalline Rocks
25	320SDMR	Sedimentary Rocks
25	330CRSL	Crystalline Rocks
25	330SDMR	Sedimentary Rocks
25	340CRSL	Crystalline Rocks, Undifferentiated
25	340CRSLC	Crystalline Rocks, Carbonate
25	340CRSLN	Crystalline Rocks, Noncarbonate
25	350CRSL	Crystalline Rocks, Undifferentiated
25	350CRSLC	Crystalline Rocks, Carbonate
25	350CRSLN	Crystalline Rocks, Noncarbonate
25	360CRSL	Crystalline Rocks, Undifferentiated
25	360CRSLC	Crystalline Rocks, Carbonate

25	360CRSLN	Crystalline Rocks, Noncarbonate
25	370CRSL	Crystalline Rocks, Undifferentiated
25	370CRSLC	Crystalline Rocks, Carbonate
25	370CRSLN	Crystalline Rocks, Noncarbonate
25	400CRSL	Crystalline Rocks, Undifferentiated
25	400CRSLC	Crystalline Rocks, Carbonate
25	400CRSLN	Crystalline Rocks, Noncarbonate
25	BASEMENT	Basement
25	BEDROCK	Bedrock
26	100CNZC	Cenozoic Erathem
26	110QRNR	Quaternary System
26	111ALVM	Holocene Alluvium
26	111CLVM	Colluvium
26	111FILL	Fill
26	111HLCN	Holocene Series
26	111SWMP	Swamp Deposits
26	112CLAY	Clay
26	112DLTC	Deltaic Deposits
26	112DNSD	Dune Sand
26	112DRML	Drumlins
26	112ESKR	Eskers
26	112GLCL	Glacial Deposits, Undifferentiated
26	112GLCLR	Glacial Deposits, Reworked
26	112GLCU	Glacial Deposits, Undifferentiated
26	112GRDM	Ground Moraine
26	112GRVL	Gravel
26	112HRDP	Hardpan
26	112KAME	Kame, Pleistocene
26	112LKBD	Lake Beds
26	112LKBDC	Lake Bed Clay
26	112LKBDS	Lake Bed Sand
26	112MORN	Moraine
26	112MRTL	Moraine and Till
26	112OTSH	Outwash
26	112PEAT	Peat
26	112PLSC	Pleistocene Series
26	112SAND	Sand
26	112SDCL	Sand and Clay
26	112SDGV	Sand and Gravel
26	112SGVC	Sand, Gravel, and Clay
26	112SNDD	Sand Dune Deposits
26	112SWMP	Swamp Deposits
26	112TILL	Till
26	112WKDM	Waterworked Morainal Material
26	200MSZC	Mesozoic Erathem
26	220JRSC	Jurassic System
26	220RDBD	Jurassic Red Beds
26	221KMDG	Kimeridgian Series
26	300DLMT	Dolomite
26	300EVPR	Paleozoic Evaporites
26	300LMSN	Limestone
26	300LNSL	Paleozoic Limestone and Shale
26	300PLZC	Paleozoic Erathem
26	300SADS	Paleozoic Sandstone and Shale

26	300SDSL	Paleozoic Sandstone and Shale
26	300SHLE	Paleozoic Shale
26	300SNDS	Paleozoic Sandstone
26	320DLMT	Pennsylvanian Dolomite
26	320EVPR	Pennsylvanian Evaporites
26	320LMSN	Pennsylvanian Limestone
26	320LNSL	Pennsylvanian Limestone and Shale
26	320PSLV	Pennsylvanian System
26	320PSLVR	Pennsylvanian Rocks
26	320SDSL	Sandstone and Shale
26	320SHLE	Pennsylvanian Shale
26	320SNDS	Pennsylvanian Sandstone
26	321ETON	Eaton Sandstone
26	321GDRV	Grand River Formation
26	321IONI	Ionia Sandstone Member of Grand River Formation
26	321PSLVU	Upper Pennsylvanian Series
26	321WDVL	Woodville Sandstone
26	324PARM	Parma Sandstone
26	324PSLVM	Middle Pennsylvanian Series
26	324SGMG	Saginaw-Michigan Formations
26	324SGML	Saginaw-Marshall Formations
26	324SGNW	Saginaw Formation
26	324VERN	Verne Limestone Member of Saginaw Formation
26	327PSLVL	Lower Pennsylvanian Series
26	327PVMP	Pennsylvanian-Mississippian Series
26	328MRWN	Morrowan Series
26	328PARM	Parma Sandstone
26	328PSVL	Pottsville Series
26	330DLMT	Mississippian Dolomite
26	330EVPR	Mississippian Evaporites
26	330LMSN	Mississippian Limestone
26	330LNSL	Mississippian Limestone and Shale
26	330MSSP	Mississippian System
26	330MSSPR	Mississippian Rocks
26	330SDSL	Mississippian Sandstone and Shale
26	330SHLE	Mississippian Shale
26	330SNDS	Mississippian Sandstone
26	331MSSPU	Mississippian, Upper
26	333BPMG	Bayport-Michigan Formations
26	333BPRT	Bayport Limestone
26	333GDRP	Grand Rapids Group
26	333MCGN	Michigan Formation
26	333MRMC	Meramecian Series
26	337ANRM	Antrim Shale
26	337BDFD	Bedford Shale
26	337BERE	Berea Sandstone
26	337CLDR	Coldwater Shale
26	337ELSR	Ellsworth Shale
26	337MPDV	Mississippian-Devonian System
26	337MRSL	Marshall Formation
26	337MRSL	Marshall Sandstone, Lower
26	337MSSPL	Mississippian, Lower
26	337NPLN	Napoleon Sandstone Member of Marshall Formation
26	337RCMV	Richmondville Sandstone Member of Coldwater Shale

26	337SBBB	Sunbury Shale, Berea and Bedford Formations
26	337SNBR	Sunbury Shale
26	338OSGE	Osagean Series
26	339KDRK	Kinderhookian Series
26	340DLMT	Devonian Dolomite
26	340DVNN	Devonian System
26	340DVNNR	Devonian Rocks
26	340EVPR	Devonian Evaporites
26	340LMSN	Devonian Limestone
26	340LNSL	Devonian Limestone and Shale
26	340SDSL	Devonian Sandstone and Shale
26	340SHLE	Devonian Shale
26	340SNDS	Devonian Sandstone
26	341DVNNU	Devonian, Upper
26	341TRVR	Traverse Group
26	342CTQN	Chautauquan Series
26	343SNCN	Senecan Series
26	343SQBY	Squaw Bay Limestone
26	344ALPN	Alpena Limestone
26	344BELL	Bell Shale
26	344CLVX	Charlevoix Limestone
26	344DCKS	Dock Street Shale
26	344DUND	Dundee Formation
26	344DVNNM	Devonian, Middle
26	344FMDM	Four Mile Dam Formation
26	344FRNP	Ferron Point Formation
26	344GNSH	Genshaw Formation
26	344GVLP	Gravel Point Formation
26	344KHLR	Koehler Limestone
26	344KLNS	Killians Limestone
26	344LGLK	Long Lake Limestone
26	344LUCS	Lucas Formation
26	344NNCK	Newton Creek Limestone
26	344NRPN	Norway Point Formation
26	344PDGP	Partridge Point Formation
26	344PRFM	Potter Farm Formation
26	344PTSK	Petoskey Limestone
26	344RGRC	Rogers City Limestone
26	344RK PQ	Rockport Quarry Limestone
26	344SILC	Silica Formation
26	344SNPN	Stony Point Formation
26	344TDRB	Thunder Bay Limestone
26	344TMCK	Ten Mile Creek Dolomite
26	345ERIN	Erian Series
26	347DVNNL	Devonian, Lower
26	347DVSL	Devonian-Silurian Systems
26	348ADRD	Anderdon Formation
26	348AMBG	Amherstburg Formation
26	348BBLC	Bois Blanc Formation
26	348DRRV	Detroit River Group
26	348FILR	Filer Sandstone Lentil of Amherstburg Formation
26	348FRCK	Flat Rock Dolomite
26	348GDID	Garden Island Formation
26	348MCKC	Mackinac Breccia

26	348ONDG	Onondaga Limestone
26	348RCFD	Richfield Member of Lucas Limestone
26	348SLVN	Sylvania Sandstone
26	348ULSR	Ulsterian Series
26	350DLMT	Silurian Dolomite
26	350EVPR	Silurian Evaporites
26	350LMSN	Silurian Limestone
26	350LNSL	Silurian Limestone and Shale
26	350SDSL	Silurian Sandstone and Shale
26	350SHLE	Silurian Shale
26	350SLRN	Silurian System
26	350SLRNR	Silurian Rocks
26	350SNDS	Silurian Sandstone
26	351SLRNU	Silurian, Upper
26	352BILD	Bass Islands Dolomite
26	352CYGN	Cayugan Series
26	352CYUG	Cayuga Group
26	352GFLD	Greenfield Dolomite
26	352PAXC	Point Aux Chenes Shale
26	352PINB	Put-In-Bay Dolomite
26	352RRVR	Raisin River Dolomite
26	352SIGC	St Ignace Dolomite
26	352SLIN	Salina Group
26	352SLINC	Salina Group C Unit
26	352SLIND	Salina Group D Evaporite
26	352SLINE	Salina Group E Unit
26	352SLINF	Salina Group F Evaporites
26	352SLING	Salina Group G Unit
26	352SLINT	Salina Formation
26	352TMCT	Tymochtee Shale
26	354SLRNM	Silurian, Middle
26	355BBLF	Burnt Bluff Group
26	355BURNT	Bluff Formation
26	355BYRN	Byron Dolomite
26	355CLNN	Clinton Shale
26	355CRDL	Cordell Dolomite
26	355ENGD	Engadine Dolomite
26	355FBRN	Fiborn Limestone
26	355GLPH	Guelph Dolomite
26	355HDCK	Hendricks Dolomite
26	355LCKP	Lockport Dolomite
26	355LMID	Lime Island Dolomite
26	355MNSQ	Manistique Dolomite
26	355MVLL	Mayville Dolomite
26	355NGRN	Niagaran Series
26	355NGRNB	Brown Niagaran
26	355NGRNG	Niagara Group
26	355SA1C	Salina Group A-1 Carbonate
26	355SA1E	Salina Group A-1 Evaporite
26	355SA2C	Salina Group A-2 Carbonate
26	355SA2E	Salina Group A-2 Evaporite
26	355SCCF	Schoolcraft Dolomite
26	355SLINB	Salina Group B Evaporite
26	357SLOV	Silurian-Ordovician System

26	357SLRNL	Silurian, Lower
26	358ALXD	Alexandrian Series
26	358CBHD	Cabot Head Shale
26	358CTRC	Cataract Formation
26	358MNLN	Manitoulin Dolomite
26	360DLMT	Ordovician Dolomite
26	360EVPR	Ordovician Evaporites
26	360LMSN	Ordovician Limestone
26	360LNSL	Ordovician Limestone and Shale
26	360ODVC	Ordovician System
26	360ODVCR	Ordovician Rocks
26	360SDSL	Ordovician Sandstone and Shale
26	360SHLE	Ordovician Shale
26	360SNDS	Ordovician Sandstone
26	361ODVCU	Ordovician, Upper
26	362BDNC	Bay De Noc Shaly Limestone
26	362BGHL	Big Hill Limestone
26	362BLCK	Bills Creek Shale
26	362CLGD	Collingwood Formation
26	362CNCN	Cincinnatian Series
26	362DEEN	Edenian Stage
26	362EDEN	Eden Group
26	362MSVL	Maysvillian Stage
26	362OGNZ	Ogontz Cherty Limestone
26	362QNSN	Queenston Shale
26	362RCMD	Richmondian Stage
26	362SNNG	Stonington Formation
26	362UTIC	Utica Shale
26	364BFLS	Bony Falls Member of Black River Formation
26	364ODVCM	Ordovician, Middle
26	365ATRN	Au Train Formation
26	365BKRV	Black River Formation
26	365CDLF	Chandler Falls Formation
26	365CMPL	Champlainian Series
26	365GLND	Glenwood Formation
26	365GRQR	Groos Quarry Formation
26	365MHKN	Mowawkian Series
26	365TBRV	Trenton-Black River Group
26	365TRNN	Trenton Group
26	365TRNNL	Trenton Limestone
26	367CHZN	Chazy Series
26	367ODVCL	Ordovician, Lower
26	367OVCB	Ordovician-Cambrian Systems
26	367SRVR	Stones River Limestone
26	367STPR	St Peter Sandstone
26	368CNDN	Canadian Series
26	368HML	Hermansville Limestone
26	368NRCM	New Richmond Sandstone
26	368ONOT	Oneota Dolomite
26	368PCTP	Prairie Du Chien Group-Trempealeau Formation
26	368PRDC	Prairie Du Chien Group
26	368SAKP	Shakopee Dolomite
26	368SHKP	Shakopee Dolomite
26	370CBPB	Cambrian System-Precambrian Erathem

26	370CMBR	Cambrian System
26	370CMBRR	Cambrian Rocks
26	370DLMT	Cambrian Dolomite
26	370EVPR	Cambrian Evaporites
26	370LMSN	Cambrian Limestone
26	370LNSL	Cambrian Limestone and Shale
26	370SDSL	Cambrian Sandstone and Shale
26	370SHLE	Cambrian Shale
26	370SNDS	Cambrian Sandstone
26	371CMBRU	Cambrian, Upper
26	372CPRK	Chapel Rock Sandstone
26	372CRXN	Croixian Series
26	372DRBC	Dresbach Group
26	372ECLR	Eau Claire Formation
26	372FDBC	Franconia Group-Dresbach Sandstone
26	372FRAC	Franconia Sandstone
26	372FRNC	Franconia Sandstone
26	372GLVL	Galesville Sandstone
26	372JRDN	Jordan Sandstone
26	372LKSP	Lake Superior Sandstone
26	372LODI	Lodi Member of St. Lawrence Formation
26	372MNSG	Munising Sandstone
26	372MNSM	Mount Simon Sandstone
26	372MRCL	Miners Castle Sandstone
26	372SLRC	St. Lawrence Formation
26	372TMPL	Trempealeau Formation
26	372TPMG	Trempealeau-Munising Formations
26	374CMBRL	Cambrian, Lower
26	374CMBRM	Cambrian, Middle
26	377CBPB	Cambrian-Precambrian Rocks
26	400BSMN	Precambrian Basement
26	400GRNT	Precambrian Granite
26	400IGNS	Precambrian Igneous Rocks
26	400IRBG	Precambrian Iron-Bearing Unit
26	400MMPC	Precambrian Metamorphic Rocks
26	400PCMB	Precambrian Erathem
26	400PCMBR	Precambrian Rocks
26	400PRZC	Proterozoic
26	400SDMR	Precambrian Sedimentary Rocks
26	400VLCC	Volcanic Rocks
26	420	Precambrian Precambrian Y
26	420ALGM	Algoman Granite
26	420CPHB	Copper Harbor Conglomerate
26	420FRED	Freda Sandstone
26	420JCBV	Jacobsville Sandstone
26	420KWNW	Keweenawan Supergroup
26	420MLLN	Mellen Granite
26	420NNSC	Nonesuch Shale
26	420PCMBY	Precambrian Y
26	420PGLK	Portage Lake Volcanics
26	420PRZCM	Proterozoic, Middle
26	430	Precambrian Precambrian X
26	430AJBK	Ajibik Formation
26	430AMAS	Amasa Formation

26	430ANVL	Anvil Member of Ironwood Iron-Formation
26	430BARG	Baraga Group
26	430BDRV	Bad River Dolomite
26	430BIJK	Bijik Iron-Formation Member of Michigamme Slate
26	430BIRD	Bird Iron-Bearing Member of Hemlock Formation
26	430BRIR	Brier Slate Member of Vulcan Iron-Formation
26	430CCLY	Chocolay Group
26	430CKBG	Clarksburg Volcanics Member of Michigamme Slate
26	430CRRY	Curry Iron-Bearing Member of Vulcan Iron-Formation
26	430DCRK	Dunn Creek Slate
26	430FCRV	Fence River Formation
26	430FLCH	Felch Formation
26	430FRCK	Fern Creek Formation
26	430FRLK	Fortune Lakes Slate
26	430GDRC	Goodrich Quartzite
26	430HMCK	Hemlock Formation
26	430HWTH	Hiawatha Graywacke
26	430IRND	Ironwood Iron-Formation
26	430KFLK	Knife Lake Group
26	430KONA	Kona Dolomite
26	430LRTT	Loretto Slate Member of Vulcan Iron-Formation
26	430MCGM	Michigamme Slate
26	430MFLD	Mansfield Iron-Bearing Slate Member of Hemlock Formation
26	430MNMN	Menominee Group
26	430MQRG	Marquette Range Supergroup
26	430MSRD	Mesnard Quartzite
26	430NGNE	Neqavnee Iron-Formation
26	430NORR	Norrie Member of Ironwood Iron-Formation
26	430NRLK	Norway Lake Gneiss
26	430PBCP	Pabst Member of Tyler Formation
26	430PCMBX	Precambrian X
26	430PENC	Pence Member of Ironwood Iron-Formation
26	430PLMS	Palms Formation
26	430PLMT	Plymouth Member of Ironwood Iron-Formation
26	430PRVR	Paint River Group
26	430PRZCL	Proterozoic, Lower
26	430PVPD	Peavey Pond Complex
26	430RDVL	Randville Dolomite
26	430RPBC	Republic Granite
26	430RVRN	Riverton Iron-Formation
26	430SDRS	Saunders Formation
26	430SIMO	Siamo Slate
26	430SMBG	Stambaug Formation
26	430SNDY	Sunday Quartzite
26	430SRGN	Sturgeon Quartzite
26	430TRDR	Trader's Iron-Bearing Member of Vulcan Iron-Formation
26	430TYLR	Tyler Formation
26	430VLCN	Vulcan Iron-Formation
26	430WEWE	Wewe Slate
26	430WUSC	Wauseca Pyritic Member of Dunn Creek Slate
26	430YALE	Yale Member of Ironwood Iron-Formation
26	440	Precambrian Precambrian W
26	440ARCN	Archean
26	440DCKS	Dickinson Group

26	440EBRC	East Branch Arkose
26	440KTCH	Kitchi Schist
26	440LGSP	Lighthouse Point Member of Mona Schist
26	440LRNN	Laurentian Series
26	440MONA	Mona Schist
26	440PCMBW	Precambrian W
26	440PLMR	Palmer Gneiss
26	440PQIL	Presque Isle Granite
26	440SLBG	Solberg Schist
26	440SXML	Six Mile Lake Amphibolite
26	BASEMENT	Basement
26	BEDROCK	Bedrock
27	000UML	unknown material
27	100CNZC	Cenozoic Erathem
27	110QRNR	Quaternary System
27	110SDGV	Sand and Gravel - Holocene and Pleistocene Series
27	111ALVM	Holocene Alluvium
27	111HLCN	Holocene Series
27	111SOIL	Soil
27	112BECH	Beach Deposits
27	112BRDO	Buried Outwash Deposits
27	112BRRD	Brainerd Till
27	112CLAY	Clay
27	112DMDF	Des Moines Drift
27	112DSMO	Des Moines Outwash
27	112GBSG	Glacial Buried Sand and/or Gravel
27	112GSSG	Glacial Surficial Sand and/or Gravel
27	112KTHO	Kathio Aquifer
27	112LKGZ	Lake Agassiz Clay
27	112LKOM	Lake Onamia Aquifer
27	112NULM	New Ulm Till
27	112OTSH	Surficial Sand (Outwash)
27	112OTSHS	Outwash, Surficial Sand
27	112PEAT	Peat
27	112PIRZ	Pierz Till
27	112PLSC	Pleistocene Series
27	112PRWC	Pre-Wisconsinan Deposits
27	112RNDF	Rainy Drift
27	112RNOS	Rainy Outwash
27	112RVFL	River Falls Formation
27	112SPDF	Superior Drift
27	112SPRO	Superior Outwash
27	112TILL	Till
27	112WDDF	Wadena Drift
27	112WDNO	Wadena Outwash
27	112WSCS	Wisconsinan Stage
27	120TRTR	Tertiary System
27	200MSZC	Mesozoic Erathem
27	210CRCS	Cretaceous System
27	211BLFC	Belle Fourche Formation
27	211CLRN	Coleraine Formation
27	211CRCSU	Upper Cretaceous Series
27	211CRLL	Carlisle Shale
27	211GRNR	Greenhorn Formation

27	211GRRS	Graneros Shale
27	211IRHL	Iron Hill Member of Windrow Formation
27	211NBRR	Niobrara Formation
27	211PIRR	Pierre Shale
27	211WNDR	Windrow Formation
27	217ORDR	Ostrander Member of Dakota Formation
27	220JRSC	Jurassic System
27	224AMRN	Amaranth Formation
27	224JRSCM	Middle Jurassic Series
27	300PLZC	Paleozoic Erathem
27	340CVMD	Cedar Valley-Maquoketa-Dubuque Formations
27	340CVMDG	Cedar Valley-Maquoketa-Dubuque-Galena Aquifer
27	340CVMQ	Cedar Valley-Maquoketa Formations
27	340DVNN	Devonian System
27	340DVOV	Devonian-Ordovician Systems
27	341DVNNU	Devonian, Upper
27	341SRCK	Shell Rock Formation
27	344CDVL	Cedar Valley Limestone
27	344CRVL	Coralville Member of Cedar Valley Formation
27	344DVNNM	Devonian, Middle
27	344RPID	Rapid Member of Cedar Valley Formation
27	344SOLN	Solon Member of Cedar Valley Formation
27	357SODV	Silurian-Ordovician Systems
27	357STNL	Stonewall Formation
27	360ODVC	Ordovician System
27	361CLRM	Clermont Shale Member of Maquoketa Formation
27	361ELGN	Elgin Member of Maquoketa Formation
27	361MQKG	Maquoketa Shale-Galena Dolomite
27	361MQKT	Maquoketa Shale
27	361RDRV	Red River Formation
27	362CNCN	Cincinnatian Series
27	362DBQG	Dubuque Formation-Galena Dolomite
27	364CMGV	Cummingsville Member of Galena Dolomite
27	364DCRH	Decorah Formation
27	364DUBQ	Dubuque Formation
27	364DUBU	Dubuque Formation
27	364GLEN	Galena Dolomite
27	364GLND	Glenwood Formation
27	364PLVL	Platteville Formation
27	364PROR	Prosser Member of Galena Group
27	364PRSR	Prosser Member of Galena Dolomite
27	364SEVL	Stewartville Member of Galena Group
27	364SRVL	Stewartville Member of Galena Dolomite
27	364STPR	St Peter Sandstone
27	364WNPG	Winnipeg Formation
27	365CMPL	Champlainian Series
27	365CRMN	Carimona Member of Platteville Formation
27	365MCGG	Mcgregor Member of Platteville Formation
27	365PCNC	Pecatonica Member of Platteville Formation
27	365PECC	Pecatonica Member of Platteville Formation
27	367NRCM	New Richmond Sandstone
27	367ONET	Oneota Member of Prairie Du Chien Formation
27	367ONOT	Oneota Member of Prairie Du Chien Formation
27	367PADC	Prairie Du Chien Group

27	367PRDC	Prairie Du Chien Group
27	367SHKP	Shakopee Dolomite
27	367WLRV	Willow River Member of Shakopee Formation
27	368CNDN	Canadian Series
27	368NRCM	New Richmond Sandstone of Prairie Du Chien Group
27	368NRCMP	New Richmond Sandstone of Prairie Du Chien Group
27	368SAKPP	Shakopee Dolomite of Prairie Du Chien Group
27	368SHKP	Shakopee Dolomite of Prairie Du Chien Group
27	370CMBR	Cambrian System
27	371BRKM	Birkmose Member of Franconia Formation
27	371CBPB	Cambrian System-Precambrian Erathem
27	371CMBRU	Cambrian, Upper
27	371DRBC	Dresbach Group
27	371ECLR	Eau Claire Sandstone
27	371ECMS	Eau Claire-Mt. Simon Formations
27	371FIGV	Franconia-Ironton-Galesville Formations
27	371FRNC	Franconia Sandstone
27	371GLVL	Galesville Sandstone
27	371IGEC	Ironton-Galesville-Eau Claire Formations
27	371IGLV	Ironton Sandstone Member of Franconia Ss.-Galesville Ss.
27	371IRNT	Ironton Sandstone Member of Franconia Sandstone
27	371JIGV	Jordan-Ironton-Galesville Sandstones
27	371JRDN	Jordan Sandstone
27	371JSLC	Jordan-St. Lawrence Formations
27	371JSTF	Jordan-St. Lawrence-Franconia Formations
27	371LODI	Lodi Member of St Lawrence Formation
27	371MSHK	Mt. Simon-Hinckley Aquifer
27	371MSMN	Mount Simon Sandstone
27	371MSRC	Mt. Simon Sandstone-Red Clastics Series
27	371MZMN	Mazomanie Sandstone
27	371MZMR	Mazomanie-Reno Members of Franconia Formation
27	371NRLK	Norwalk Member of Jordan Sandstone
27	371RENO	Reno Member of Franconia Formation
27	371SLCF	St Lawrence-Franconia Formations
27	371SLRC	St Lawrence Formation
27	371SNSP	Sunset Point Member of Jordan Sandstone
27	371TOMH	Tomah Member of Franconia Formation
27	371VOSR	Van Oser Member of Jordan Sandstone
27	372ECLR	Eau Claire Formation
27	372FRNC	Franconia Formation
27	372IRGLS	Ironton-Galesville Sandstones
27	372IRON	Ironton Sandstone
27	378PDCJ	Prairie Du Chien-Jordan Aquifer
27	400AGGK	Argillite-Graywacke
27	400BBKF	Biwabik Iron Formation
27	400BLPL	Belle Plaine Formation
27	400BSLT	Basalt
27	400DCPX	Duluth Complex
27	400ELY	Ely Greenstone
27	400FDLC	Fond Du Lac Formation
27	400GRNT	Precambrian Granite
27	400GSSC	Gneiss-Schist
27	400HCKL	Hinckley Formation
27	400KFLK	Knife Lake Group

27	400MDMR	Metasedimentary Rocks
27	400MSVL	Minnesota Valley Granite Series
27	400MVCC	Metavolcanic Rocks
27	400NRSR	North Shore Volcanic Group
27	400PCMB	Precambrian Erathem
27	400RDCC	Red Clastics Series
27	400SOUX	Sioux Quartzite
27	400VLCC	Volcanic Rocks
27	400VRGN	Virginia Formation
27	430TMSN	Thomson Formation
27	BASEMENT	Basement
27	BEDROCK	Bedrock
28	100CNZC	Cenozoic Erathem
28	110ALVM	Quaternary Alluvium
28	110QRNR	Quaternary System
28	110QRRT	Quaternary-Tertiary Systems
28	110SAND	Sand
28	110SDGV	Sand and Gravel - Holocene and Pleistocene Series
28	110TRCS	Terrace Deposits, Undifferentiated
28	111ALVM	Holocene Alluvium
28	111CSTL	Coastal Deposits
28	111CSTLP	Coastal Deposits
28	111HCPC	Holocene-Pleistocene Series
28	111HLCN	Holocene Series
28	111LTAVP	Low Terrace Deposits and Alluvium
28	111NLMR	Natural Levee Deposits of Mississippi River
28	111TERC	Terrace Deposits, Undifferentiated
28	111TRCS	Terrace Deposits, Undifferentiated
28	112ALVM	Alluvium
28	112HGTC	High Terrace Deposits
28	112IMTC	Intermediate Terrace Deposits
28	112LOSS	Loess
28	112LTRC	Low Terrace Deposits
28	112MRVA	Mississippi River Alluvial Aquifer
28	112PCPC	Pleistocene-Pliocene Series
28	112PLSC	Pleistocene Series
28	112TRCS	Terrace Deposits, Undifferentiated
28	112VLTR	Valley Trains, Pleistocene
28	120TRCC	Tertiary-Cretaceous Systems
28	120TRTR	Tertiary System
28	121CRNL	Citronelle Formation
28	121GRMF	Graham Ferry Formation
28	121PCMC	Pliocene-Miocene Series
28	121PLCN	Pliocene Series
28	122CTHL	Catahoula Formation, Lower
28	122CTHLL	Catahoula Formation, Lower
28	122CTHLM	Catahoula Formation, Middle
28	122CTHLU	Catahoula Formation, Upper
28	122FADM	Fort Adams Member of Pascagoula Formation
28	122HBRG	Hattiesburg Formation
28	122HMCT	Homochitto Member of Pascagoula Formation
28	122HRSG	Heterostegina Zone
28	122MCOG	Miocene-Oligocene Series
28	122MOCN	Miocene Series

28	122PCGL	Pascagoula Formation
28	122PCGLL	Lower Pascagoula
28	122PHMK	Paynes Hammock Sand
28	122TTUM	Tatum Limestone Member of Catahoula Formation
28	123BCTN	Bucatumna Clay Member of Byram Formation
28	123BYRM	Byram Formation
28	123BYRMM	Middle Marl Member of Byram Formation
28	123CCKS	Chickasawhay Limestone
28	123FRHL	Forest Hill Sand
28	123GLND	Glendon Limestone Member of Byram Formation
28	123MRNN	Marianna Limestone
28	123MSPG	Mint Spring Marl Member of Marianna Limestone
28	123OGCE	Oligocene-Eocene Series
28	123OLGC	Oligocene Series
28	123RDBF	Red Bluff Clay
28	123VKBG	Vicksburg Group
28	123WSBR	Waynesboro Sand Lentil (Informal Usage) of Byram Formation
28	124ARCS	Archusa Marl Member of Cook Mountain Limestone
28	124BSCC	Basic City Shale Member of Tallahatta Formation
28	124BSHI	Bashi Marl Member of Hatchetigbee Formation
28	124CCKF	Cockfield Formation of Claiborne Group
28	124CKMN	Cook Mountain Formation
28	124CKMNR	Cook Mountain Limestone
28	124CLBR	Claiborne Group
28	124CMRN	Camerina Limestone
28	124COCO	Cocoa Sand Member of Yazoo Clay
28	124CRVR	Cane River Formation
28	124EOCN	Eocene Series
28	124FSPG	Fearn Springs Member of Nanafalia Formation
28	124GDCK	Gordon Creek Shale Member of Cook Mountain Formation
28	124HCGB	Hatchetigbee Formation
28	124HCGBN	Hatchetigbee Formation, Unnamed Member
28	124JCKS	Jackson Group
28	124MDBC	Moodys Branch Formation
28	124MDBCR	Moodys Branch Limestone
28	124MRDN	Meridian Sand Member of Tallahatta Formation
28	124MUWX	Meridian-Upper Wilcox Aquifer
28	124MWCX	Minor Wilcox Aquifer
28	124NNFL	Nanafalia Formation
28	124NNFLN	Nanafalia Formation, Unnamed Member
28	124NSHB	Neshoba Sand Member of Tallahatta Formation
28	124NTCK	North Twistwood Creek Member of Yazoo Clay
28	124OCAL	Ocala Limestone
28	124PCHT	Pachuta Marl Member of Yazoo Clay
28	124PTRC	Potterchitto Sand Member of Cook Mountain Formation
28	124SHBT	Shubuta Member of Yazoo Clay
28	124SLMN	Salt Mountain Limestone Equivalent
28	124SPCK	Shippo Creek Shale Member of Wautubbee Formation
28	124SPRT	Sparta Sand
28	124SPRTL	Sparta Sand, Lower
28	124SPRTM	Sparta Sand, Middle
28	124SPRTU	Sparta Sand, Upper
28	124TLLT	Tallahatta Formation

28	124TSCM	Tuscahoma Formation
28	124WLCX	Wilcox Group
28	124WLCXG	Wilcox Group
28	124WLCXL	Wilcox Aquifer, Lower
28	124WLCXM	Wilcox Aquifer, Middle
28	124WLCXU	Wilcox Aquifer, Upper
28	124WNON	Winona Sand
28	124WNSB	Winona-Neshoba Aquifer
28	124YZOO	Yazoo Clay
28	124ZAMA	Zama Member of Zilpha Formation
28	124ZLPH	Zilpha Clay
28	125CLTN	Clayton Formation
28	125MDWY	Midway Group
28	125MLDG	Matthews Landing Marl Member of Porters Creek Clay
28	125NHOL	Naheola Formation
28	125PLCN	Paleocene Series
28	125PRCK	Porters Creek Clay
28	125PRCKN	Porters Creek Clay, Unnamed Member
28	125TPPH	Tippal Sand Lentil of Porters Creek Clay
28	200MSZC	Mesozoic Erathem
28	210CCJC	Cretaceous-Jurassic Systems
28	210CRCS	Cretaceous System
28	211ARCL	Arcola Limestone Member of Mooreville Chalk
28	211BLFP	Bluffport Marl Member of Demopolis Chalk
28	211CCRK	Coon Creek Tongue of Ripley Formation
28	211CHWP	Chiwapa Member of Ripley Formation
28	211COFF	Coffee Sand
28	211COKR	Coker Formation
28	211COKRU	Upper Unnamed Member of Coker Formation
28	211CRCSU	Upper Cretaceous Series
28	211DMPL	Demopolis Chalk
28	211DMPLN	Demopolis Chalk, Unnamed Member
28	211EOLN	Eoline Member
28	211EUTW	Eutaw Formation
28	211EUTWL	Eutaw Formation, Lower
28	211EUTWN	Eutaw Formation, Unnamed Member
28	211EUTWR	Eutaw Formation (Restricted)
28	211GORD	Gordo Formation
28	211MCNR	McNairy Formation
28	211MCSN	Mc Shan Formation
28	211MRVL	Mooreville Chalk
28	211MRVLN	Mooreville Chalk, Unnamed Member
28	211MSSV	Massive Sand
28	211OLCK	Owl Creek Formation
28	211PBLF	Prairie Bluff Chalk
28	211RPLY	Ripley Formation
28	211SELM	Selma Group
28	211TBGB	Tombigbee Sand Member of Eutaw Formation
28	211TRSL	Transitional Clay of Ripley Formation
28	211TSCL	Tuscaloosa Group
28	211TSCLL	Tuscaloosa Group, Lower
28	211TSCLM	Tuscaloosa Group, Middle
28	211TSCLU	Tuscaloosa Group, Upper
28	211TUCL	Tuscaloosa Group

28	211TUCLL	Tuscaloosa Group, Lower Member
28	211TUCLM	Tuscaloosa Group, Middle Member
28	211TUCLU	Tuscaloosa Group, Upper Member
28	217ANDR	Andrew Formation
28	217CRCSL	Lower Cretaceous Series
28	217DZLR	Dantzler Formation
28	217FRLK	Ferry Lake Anhydrite
28	217HSTN	Hosston Formation
28	217MRGP	Mooringsport Formation
28	217RDSS	Rodessa Formation
28	217RJPI	Rodessa Formation James Limestone and Pine Island Shale
Undiff		
28	217SLGO	Sligo Formation
28	218PALX	Paluxy Formation
28	218PLXY	Paluxy Formation
28	220JRSC	Jurassic System
28	221BCKR	Buckner Member of Haynesville Formation
28	221CNVL	Cotton Valley Formation
28	221HSVL	Haynesville Formation
28	221JRSCU	Upper Jurassic Series
28	221LUNN	Louann Salt
28	221NRPL	Norphlet Formation
28	221SMKV	Smackover Formation
28	221WRNR	Werner Formation
28	300PLZC	Paleozoic Erathem
28	310EGLM	Eagle Mills Formation
28	310PRMN	Permian System
28	320PRKD	Parkwood Formation
28	320PSLV	Pennsylvanian System
28	320PVMP	Pennsylvanian-Mississippian Systems
28	324MRHS	Moorehouse Formation
28	324PSLVL	Middle-Lower Pennsylvanian Series
28	324PSLVM	Middle-Lower Pennsylvanian Series
28	324PSVL	Pottsville Formation
28	330MSSP	Mississippian System
28	331ALBK	Alsobrook Member of Pride Mountain Formation
28	331BNGR	Bangor Limestone
28	331GRHL	Green Hill Member of Pride Mountain Formation
28	331HRSL	Hartselle Sandstone
28	331MSSPU	Mississippian, Upper
28	331MYNT	Mynot Sandstone Member of Pride Mountain Formation
28	331PNNG	Pennington Formation
28	331PRDM	Pride Mountain Formation
28	331SDFL	Sandfall Member of Pride Mountain Formation
28	331SSPG	Southward Spring Sandstone Member of Pride Mountain
Formation		
28	331TCMB	Tuscumbia Limestone
28	331TDBC	Tanyard Branch Member of Pride Mountain Formation
28	331WGNN	Wagon Member of Pride Mountain Formation
28	337FORP	Fort Payne Chert
28	337FRPN	Fort Payne Chert/formation
28	337MPDV	Mississippian-Devonian System
28	337MSSPL	Mississippian, Lower
28	337MURY	Maury Formation

28	340DVNN	Devonian System
28	341CTNG	Chattanooga Shale
28	341DVNNU	Devonian, Upper
28	344CMDN	Camden Chert
28	344DVVNM	Middle-Lower Devonian Series
28	347DVSL	Devonian-Silurian Systems
28	350SLRN	Silurian System
28	BASEMENT	Basement
28	BEDROCK	Bedrock
29	100CNZC	Cenozoic Erathem
29	110QRNR	Quaternary System
29	111ALVM	Holocene Alluvium
29	111HLCN	Holocene Series
29	111SPOL	Holocene Spoil
29	112DRFT	Drift
29	112ILNN	Illinoian Deposits
29	112KNSN	Kansan Deposits
29	112LFTT	Lafayette Gravel
29	112NBRK	Nebraskan Deposits
29	112PLSC	Pleistocene Series
29	112VLTR	Valley Trains, Pleistocene
29	112WISC	Wisconsinan Deposits
29	112WSCS	Wisconsinan Deposits
29	120TRTR	Tertiary System
29	121PLCN	Pliocene Series
29	124ACKM	Ackerman Formation
29	124CCKF	Cockfield Formation of Claiborne Group
29	124CCKFJ	Cockfield Through Jackson, Undivided
29	124CKMN	Cook Mountain Formation
29	124CKMNJ	Jackson Through Cook Mountain, Undivided
29	124CLBR	Claiborne Group
29	124EOCN	Eocene Series
29	124FLID	Flour Island Formation of Wilcox Group
29	124FRPL	Fort Pillow Sand of Wilcox Group
29	124HLPG	Hollysprings Formation
29	124JCKS	Jackson Group
29	124MMPS	Memphis Sand
29	124WLCX	Wilcox Formation
29	124WLCXG	Wilcox Group
29	125CLTN	Clayton Formation
29	125MDWY	Midway Group
29	125PLCN	Paleocene Series
29	125PRCK	Porters Creek Clay
29	200MSZC	Mesozoic Erathem
29	210CRCS	Cretaceous System
29	211MCNR	McNairy Formation
29	211OLCK	Owl Creek Formation
29	212CRCSL	Lower Cretaceous Series
29	212GLFN	Gulfian Series
29	300PLZC	Paleozoic Erathem
29	310PRMN	Permian System
29	317IDCV	Indian Cave Sandstone
29	317IICV	Indian Cave Sandstone
29	317PRMNL	Lower Permian Series

29	320IICV	Indian Cave Sandstone
29	320PSLV	Pennsylvanian System
29	322ABRN	Auburn Shale
29	322BERN	Bern Limestone
29	322CLHN	Calhoun Shale
29	322DECK	Deer Creek Formation
29	322DGLS	Douglas Group
29	322DRCK	Deer Creek Formation
29	322EMPR	Emporia Limestone
29	322HWRD	Howard Limestone
29	322KANK	Kanwaka Formation
29	322KNWK	Kanwaka Formation
29	322LCMP	Lecompton Limestone
29	322LRNC	Lawrence Shale
29	322NEMH	Nemaha Subgroup or Formation
29	322ORED	Oread Limestone
29	322PLBR	Pillsbury Shale
29	322RCRD	Richardson Subgroup
29	322SCFX	Sacfox Subgroup
29	322SCRN	Scranton Shale
29	322SHWN	Shawnee Group
29	322SRGR	Stranger Formation
29	322STLR	Stotler Limestone
29	322SVRY	Severy Shale
29	322TCMS	Tecumseh Shale
29	322TOEK	Topeka Formation
29	322TOPK	Topeka Formation
29	322VRGL	Virgilian Series
29	322WBNS	Wabaunsee Group
29	322WLRD	Willard Shale
29	322ZNDL	Zeandale Limestone
29	323BRNS	Bronson Subgroup
29	323BSPG	Bonner Springs Shale
29	323CHNT	Chanute Shale
29	323CRVL	Cherryvale Shale
29	323DENS	Dennis Formation
29	323DNNS	Dennis Formation
29	323DRUM	Drum Limestone
29	323GLBG	Galesburg Shale
29	323HRTH	Hertha Limestone
29	323IATN	Iatan Limestone
29	323IOLA	Iola Limestone
29	323KSSC	Kansas City Group
29	323LANE	Lane Shale
29	323LDOR	Ladore Shale
29	323LINN	Linn Subgroup
29	323LNSG	Lansing Group
29	323MSSR	Missourian Series
29	323PEDE	Pedee Group
29	323PLBG	Plattsburg Limestone
29	323PLSN	Pleasanton Group
29	323STNN	Stanton Limestone
29	323SWOP	Swope Formation
29	323SWOPE	Swope Formation

29	323VILS	Vilas Shale
29	323WNDT	Wyandotte Limestone
29	323WSTN	Weston Shale
29	323ZARH	Zarah Subgroup
29	325ALAM	Altamont Formation
29	325ALMN	Altamont Formation
29	325APNS	Appanoose Subgroup
29	325BJCK	Bluejacket Sandstone Member
29	325BJKC	Blackjack Creek Formation
29	325BKJC	Blackjack Creek Limestone Member of Fort Scott Limestone
29	325BNDR	Bandera Shale
29	325BUJK	Bluejacket Formation
29	325BVIR	Bevier Formation
29	325CBNS	Cabaniss Subgroup
29	325CHRK	Cherokee Group
29	325CRBG	Croweburg Formation
29	325DRYD	Drywood Formation
29	325DSMS	Des Moinesian Series
29	325EXCL	Excello Formation
29	325FLMG	Fleming Formation
29	325FRSC	Fort Scott Limestone
29	325HGVL	Higginsville Limestone Member of Fort Scott Limestone
29	325HLDV	Holdenville Shale
29	325HRSR	Hartshorne Sandstone
29	325KRBS	Krebs Group
29	325LBTT	Labette Shale
29	325LGND	Lagonda Formation
29	325LLOG	Little Osage Member of Fort Scott Limestone
29	325LNPH	Lenapah Limestone
29	325MLKY	Mulky Formation
29	325MNRL	Mineral Formation
29	325MRMN	Marmaton Group
29	325NOWT	Nowata Shale
29	325PWNE	Pawnee Limestone
29	325RBBC	Robinson Branch Formation
29	325ROWE	Rowe Formation
29	325SCMN	Scammon Formation
29	325SVLL	Seville Limestone Member of Krebs Formation
29	325TEBO	Tebo Formation
29	325VRDG	Verdigris Limestone Member of Cabaniss Formation
29	325WEIR	Weir Formation
29	325WRNR	Warner Sandstone Member of Krebs Formation
29	326ATCK	Atoka Formation
29	326ATKN	Atokan Series
29	326ATOK	Atokan Series
29	326BRGR	Burgner Formation
29	326CLNM	Cheltenham Formation
29	326MCLT	Mc Louth Formation
29	326RVRN	Riverton Formation
29	328HALE	Hale Formation
29	328MRRN	Morrowan Series
29	328MRRW	Morrowan Series
29	330CTNG	Chattanooga Shale
29	330MSSP	Mississippian System

29	331BSVL	Batesville Sandstone
29	331HDVL	Hindsville Limestone
29	332AXVS	Aux Vases Sandstone
29	332BSVL	Batesville Sandstone
29	332CPRS	Cypress Formation
29	332CRVL	Carterville Formation
29	332CSTR	Chesterian Series
29	332CYPR	Cypress Formation
29	332FTVL	Fayetteville Shale
29	332GLCD	Golconda Formation
29	332GLND	Glen Dean Limestone
29	332HDBG	Hardinsburg Sandstone
29	332PNCK	Paint Creek Formation
29	332RNLT	Renault Formation
29	332TSPG	Tar Springs Sandstone
29	332VINN	Vienna Limestone
29	332YNKN	Yankeetown Sandstone
29	333MRMC	Meramecian Series
29	333SALM	Salem Formation
29	333SGSL	Ste. Genevieve-St Louis Limestones, Undifferentiated
29	333SGVV	Ste. Genevieve Limestone
29	333SLEM	Salem Formation
29	333STLS	St. Louis Limestone
29	333WRSW	Warsaw Formation
29	337CHUT	Chouteau Limestone
29	337CMPN	Compton Limestone
29	338BRLG	Burlington Limestone
29	338ELSY	Elsey Formation
29	338FRGL	Fern Glen Limestone
29	338GDFL	Grand Falls Formation
29	338KKKB	Keokuk-Burlington Limestones, Undifferentiated
29	338KKUK	Keokuk Limestone
29	338OSGE	Osagean Series
29	338PRSN	Pierson Formation
29	338RSPG	Reeds Spring Limestone
29	338SRCK	Short Creek Oolite
29	339BCLR	Bachelor Sandstone
29	339HNBL	Hannibal Formation
29	339KDRK	Kinderhookian Series
29	339NRTV	Northview Shale
29	339SDLI	Sedalia Formation
29	340DVNN	Devonian System
29	341BBRG	Bushberg Sandstone
29	341CTNG	Chattanooga Shale
29	341DVNNU	Devonian, Upper
29	341GLPK	Glen Park Limestone
29	341GRCK	Grassy Creek Shale
29	341LUSN	Louisiana Formation
29	341SDCK	Snyder Creek Formation
29	341SSPG	Sulfur Springs Group
29	341SVRN	Saverton Formation
29	341SYCK	Snyder Creek Shale
29	344BUVS	Beauvais Sandstone
29	344CLCK	Clear Creek Chert

29	344CLLY	Callaway Formation
29	344DVNNM	Devonian, Middle
29	344FRTN	Fortune Formation
29	344GRDT	Grand Tower Limestone
29	344SLRN	St Laurent Formation
29	347BILY	Bailey Limestone
29	347CLCK	Clear Creek Chert
29	347DVNNL	Devonian, Lower
29	347LLSL	Little Saline Limestone
29	350SLRN	Silurian System
29	355BBDG	Bainbridge Limestone
29	355NGRN	Niagaran Series
29	358ALXD	Alexandrian Series
29	358BLGG	Bowling Green Dolomite
29	358CYRN	Cyrene Limestone Member of Edgewood Formation
29	358EDGD	Edgewood Formation
29	358GRRD	Girardeau Limestone
29	358SXCK	Sexton Creek Limestone
29	360ODVC	Ordovician System
29	361MQKT	Maquoketa Shale
29	362CAPE	Cape Limestone
29	362CNCN	Cincinnatian Series
29	362OCCK	Orchard Creek Shale
29	362THBS	Thebes Sandstone
29	364DCRH	Decorah Formation
29	364EVRN	Everton Formation
29	364JCHM	Joachim Dolomite
29	364KMCK	Kimmswick Limestone
29	364PLTN	Plattin Limestone
29	364SPEV	St Peter Sandstone-Everton Formation, Undifferentiated
29	364STPR	St Peter Sandstone
29	365CMPL	Champlainian Series
29	365DTCN	Dutchtown Formation
29	365RKLV	Rock Levee Formation
29	367CRJF	Cotter-Jefferson City Dolomite
29	367CTTR	Cotter Dolomite
29	367GNTR	Gunter Sandstone Member of Gasconade Dolomite
29	367GSCD	Gasconade Dolomite
29	367GSCDL	Gasconade Dolomite, Lower
29	367GSCDU	Gasconade Dolomite, Upper
29	367RBDX	Roubidoux Formation
29	367SMVL	Smithville Formation
29	367SMVP	Smithville Formation-Powell Limestone
29	368CNDN	Canadian Series
29	368JFRC	Jefferson City Dolomite
29	368PLCR	Powell-Cotter Dolomites
29	368PWLL	Powell Dolomite
29	368SCRK	Swan Creek Member of Cotter Formation or Dolomite
29	370CMBR	Cambrian System
29	371BCKE	Black Earth Member of St. Lawrence Formation
29	371BDDD	Bonneterre-Davis Formations and Davis-Derby Dolomites
29	371BNTR	Bonneterre Formation
29	371BONR	Bonneterre Formation
29	371BRKM	Birkmose Member of Franconia Formation

29	371CMBRU	Cambrian, Upper
29	371DEBD	Derby-Doerun Dolomite
29	371DRBD	Derby-Doerun Dolomites
29	371DVIS	Davis Formation
29	371ECLR	Eau Claire Formation
29	371ELVS	Elvins Group
29	371EMCP	Eminence-Potosi Dolomites
29	371EMNC	Eminence Dolomite
29	371IGLV	Ironton and Galesville Sandstones
29	371LMTT	Lamotte Sandstone
29	371MMNC	Momence Sandstone Member of Eminence Dolomite
29	371MSMN	Mount Simon Sandstone
29	371POTS	Potosi Dolomite
29	371REGN	Reagan Sandstone
29	371RENO	Reno Member of Franconia Formation
29	371SLRCL	St. Lawrence Formation-Lower Part
29	371TOMH	Tomah Member of Franconia Formation
29	371TRAK	Transition Arkose
29	400PCMB	Precambrian Erathem
29	BASEMENT	Basement
29	BEDROCK	Bedrock
30	100CNZC	Cenozoic Erathem
30	110ALVF	Alluvial Fan Deposits
30	110ALVM	Quaternary Alluvium
30	110PDMN	Pediment Deposits
30	110TRRC	Terrace Deposits
30	111ALVF	Alluvial Fan Deposits
30	111ALVM	Holocene Alluvium
30	111DDGP	Dredge Pilings
30	111MTLG	Mine Tailings
30	111PDMN	Pediment Deposits
30	111SPBK	Spoil Banks
30	111TRRC	Terrace Deposits
30	112ALMN	Altamont Moraine-Wisconsin Stage
30	112ALVM	Alluvium
30	112AMWC	Altamont Moraine-Wisconsin Stage
30	112DRFT	Drift
30	112GCLO	Glacial Outwash
30	112GFLK	Great Falls Lake Sands
30	112GLCC	Glaciolacustrine Deposits
30	112LKML	Lake Missoula Beds
30	112OTSH	Outwash
30	112TILL	Till
30	112TRRC	Terrace Deposits
30	112WIOT	Wiota Gravels
30	120BLMN	Belmont Porphyry
30	120BZMN	Bozeman Group
30	120CPCK	Carpenter Creek Granite Porphyry
30	120DMLM	Drumlummon Porphyry
30	120LNLY	Linley Conglomerate
30	120PLNC	Plutonic Rocks
30	120PNTD	Pinto Diorite
30	120SDMS	Sediments
30	120SFRD	Stanford Conglomerate

30	120TRTR	Tertiary System
30	120VLCC	Volcanic Rocks
30	121CSTL	Castle Granite
30	121FLXV	Flaxville Formation
30	121FREL	Fort Ellis Beds
30	121LCSR	Lacustrine Deposits
30	121SDMS	Sediments
30	121VLCC	Volcanic Rocks
30	122ARKR	Arikaree Formation
30	122DPRVM	Deep River Beds (Middle Miocene)
30	122FRLGL	Fort Logan Beds (Lower Miocene)
30	122LCSR	Lacustrine Deposits
30	122SDMS	Sediments
30	122VLCC	Volcanic Rocks
30	122WDMN	Wood Mountain Gravels
30	123CBGA	Climbing Arrow Formation of Bozeman Group (Oligocene-Eocene)
30	123CHLS	Challis Volcanics
30	123CKRC	Cook Ranch Formation
30	123CPHL	Cypress Hills Beds
30	123DBCK	Dunbar Creek Formation of Bozeman Group
30	123LCSR	Lacustrine Deposits
30	123SDMS	Sediments
30	123VLCC	Volcanic Rocks
30	123WIRV	White River Formation or Group
30	123WRVR	White River Formation or Group
30	124BVRD	Beaverhead Formation (Eocene-Paleocene)
30	124CRDL	Crandall Conglomerate
30	124GLDV	Golden Valley Formation
30	124KGBG	Kingsburg Conglomerate Member of Wasatch Formation
30	124PLNC	Plutonics, Volcanics and Intrusives (Tertiary)
30	124PVIV	Plutonics, Volcanics and Intrusives (Tertiary)
30	124REES	Reese Formation
30	124SDMS	Sediments
30	124SGCK	Sage Creek Formation
30	124SPNX	Sphinx Conglomerate
30	124VLCC	Volcanic Rocks
30	124WSTC	Wasatch Formation
30	125BEAR	Bear Formation
30	125FRUN	Fort Union Formation
30	125HRMN	Harmon Lignite Aquifer, Paleocene
30	125LDLW	Ludlow Member of Fort Union Formation
30	125LEBO	Lebo Member of Fort Union Formation
30	125SNLB	Sentinel Butte Member of Fort Union Formation
30	125TGRV	Tongue River Member of Fort Union Formation
30	125TLCK	Tullock Member of Fort Union Formation
30	125WLCK	Willow Creek Formation (Paleocene-Late Cretaceous)
30	200MSZC	Mesozoic Erathem
30	210CRCS	Cretaceous System
30	211ACRK	Ash Creek Sandstone Member of Steel Shale
30	211ADLM	Adel Mountain Volcanics
30	211ASPN	Aspen Shale
30	211BEFCS	Belle Fourche Shale Member of Graneros Shale
30	211BENN	Benton Shale of Colorado Group

30	211BGEK	Big Elk Sandstone Member of Colorado Shale
30	211BLCK	Bull Creek Sandy Limestone Member of Greenhorn Formation
30	211BLDR	Boulder Batholith Intrusives
30	211BLFC	Belle Fourche Shale Member of Graneros Shale
30	211BMCK	Billman Creek Formation (Upper Cretaceous)
30	211BNTN	Benton Shale of Colorado Group
30	211BRPW	Bearpaw Shale
30	211BSIN	Basin Shale
30	211BVCK	Beaver Creek Chalky Member of Niobrara Formation
30	211CKDL	Cokedale Formation (Upper Cretaceous)
30	211CLGG	Claggett Shale of the Montana Group
30	211CLGT	Colgate Sandstone Member of Fox Hills Formation
30	211CLRD	Colorado Group
30	211CODY	Cody Shale
30	211CONE	Cone Calcareous Member of Marias River Formation
30	211CRLL	Carlile Shale
30	211EGLE	Eagle Sandstone
30	211ELKB	Elk Basin Sandstone Member of Telegraph Creek Formation
30	211ELKM	Elkhorn Mountains Volcanics
30	211FHHC	Fox Hills-Hell Creek Aquifer
30	211FLWR	Floweree Member of Marias River Formation
30	211FRDG	Ferdig Shale Member of Marias River Formation
30	211FRHS	Fort Hays Limestone Member of Niobrara Formation
30	211FRNR	Frontier Formation
30	211FXHL	Fox Hills Formation
30	211GMMN	Gammon Ferruginous Member of Pierre Shale
30	211GRERC	Greenhorn Limestone of Colorado Group
30	211GRNR	Greenhorn Limestone of Colorado Group
30	211GROT	Groat Sandstone Bed of Pierre Shale
30	211GROTP	Groat Sandstone Bed of Pierre Shale
30	211GRRS	Graneros Shale of Colorado Group
30	211GRRSC	Graneros Shale of Colorado Group
30	211HLCK	Hell Creek Formation
30	211HPRS	Hoppers Formation (Upper Cretaceous)
30	211HRSF	Horsethief Sandstone of Montana Group
30	211JDRV	Judith River Formation of Montana Group
30	211KVIN	Kevin Shale Member of Marias River Formation
30	211LNCE	Lance Formation
30	211LNNP	Lennepe Sandstone of Montana Group
30	211LVGS	Upper Cretaceous Livingston Group
30	211LVIG	""Livingston Igneous Series"" of Livingston Group"
30	211MAVL	Marysville Intrusives
30	211MEVD	Mesaverde Formation or Group
30	211MMHL	Monument Hill Bentonitic Member of Pierre Shale
30	211MNTN	Montana Group
30	211MRCK	Miner Creek Formation (Upper Cretaceous)
30	211MRRV	Marias River Formation of Colorado Group
30	211MRVL	Marysville Intrusives
30	211MSBY	Mosby Sandstone Member of Warm Creek Shale
30	211MTTN	Mitten Black Shale Member of Pierre Shale
30	211MTTS	Meeteetse Formation
30	211MVRD	Mesaverde Formation or Group
30	211NBRR	Niobrara Formation of Colorado Group
30	211NBRRC	Niobrara Formation of Colorado Group

30	211PDRO	Pedro Bentonite Bed of Pierre Shale
30	211PEAY	Peay Sandstone Member of Frontier Formation
30	211PIER	Pierre Shale of Montana Group
30	211PINY	Piney Formation
30	211PIRR	Pierre Shale of Montana Group
30	211PLNC	Plutonic Rocks Upper Cretaceous
30	211PRKM	Parkman Sandstone of Montana Group
30	211SABK	Sage Breaks Shale Member of Niobrara Formation
30	211SGBK	Sage Breaks Shale Member of Niobrara Shale
30	211SGHN	Sage Hen Limestone of Colorado Shale
30	211SGVH	Scratchgravel Hills Intrusives
30	211SLPF	Member of Miner Creek Formation (Sulphur Flats Sandstone)
30	211SMKH	Smoky Hill Chalk Member of Niobrara Formation
30	211SMRV	St Mary River Formation
30	211SMSM	Slim Sam Formation
30	211SNNN	Shannon Sandstone Member of Cody Shale
30	211SPCK	Soap Creek Bentonite Bed Member of Frontier Formation
30	211SSSX	Sussex Sandstone Member of Cody Shale
30	211STEL	Steele Shale
30	211SVLF	Stoneville Flats Limestone Member of Belle Fourche Shale
30	211TCLG	Torchlight Sandstone Member of Frontier Formation
30	211TECK	Telegraph Creek Formation of Montana Group
30	211TMBS	Tombstone Sandstone
30	211TMDC	Two Medicine Formation of Montana Group
30	211TPCK	Telegraph Creek Formation of Montana Group
30	211TPOT	Teapot Sandstone Member of Mesaverde Formation
30	211TRNR	Turner Sandy Member of Carlile Shale
30	211VRGL	Virgelle Sandstone Member of Eagle Sandstone
30	211WLCK	Wall Creek Sandstone Member of Frontier Formation
30	211WMCK	Warm Creek Shale of Colorado Group
30	217AMFK	American Fork Formation
30	217BCKF	Blackleaf Formation of Colorado Group
30	217BIDD	Birdhead Sandstone Member
30	217BILD	Bow Island Sandstone
30	217BLGR	Bootlegger Member of Blackleaf Formation
30	217BRDD	Birdhead Sandstone Member
30	217CBNK	Cut Bank Sandstone
30	217CLSN	Chilson Member of Lakota Formation
30	217CLSP	Clay Spur Bentonite Bed of Mowry Shale
30	217CLVL	Cloverly Formation
30	217DAKO	Dakota Sandstone or Formation
30	217DKOT	Dakota Sandstone or Formation
30	217DRLG	Darling Sandstone
30	217FCCK	First Cat Creek Sandstone of Colorado Group
30	217FLOD	Flood Shale Member of Black Leaf Formation
30	217FLRV	Fall River Formation of Inyan Kara Group
30	217FLRVI	Fall River Formation of Inyan Kara Group
30	217FUSN	Fuson Member of Lakota Formation
30	217GRBL	Greybull Sandstone Member of Cloverly Formation
30	217HINS	Hines Member of Cloverly Formation
30	217INKR	Inyan Kara Group
30	217KOTN	Kootenai Formation
30	217LAKT	Lakota Sandstone of Inyan Kara Group

30	217LKOT	Lakota Sandstone of Inyan Kara Group
30	217LLSP	Little Sheep Member of Cloverly Formation
30	217LPTN	Lupton Sand of Kootenai Formation (2 Nd Cat Creek Sand)
30	217MDDY	Muddy Sandstone Member of Thermopolis Shale
30	217MLTN	Moulton Sandstone
30	217MSSR	Mosser Sandstone
30	217MWRY	Mowry Shale
30	217NCSL	Newcastle Sandstone Member of Graneros Shale
30	217NECL	Newcastle Sandstone Member of Graneros Shale
30	217PRYR	Pryor Conglomerate Member of Cloverly Formation
30	217SBRS	Sunburst Sandstone
30	217SCCK	Second Cat Creek Sandstone of Kootenai Formation
30	217SKCK	Skull Creek Shale Member of Graneros Shale
30	217SKUC	Skull Creek Shale Member of Graneros Shale
30	217TCCK	Third Cat Creek Sandstone of Kootenai Formation
30	217TFHL	Taft Hill Member of Blackleaf Formation
30	217TMPL	Thermopolis Shale
30	217VGHN	Vaughn Member of Blackleaf Formation
30	220ELLS	Ellis Group
30	220JRSC	Jurassic System
30	221CSPGS	Canyon Springs Sandstone Member of Sundance Formation
30	221HLTT	Hulett Sandstone Member of Sundance Formation
30	221LAK	Lak Member of Sundance Formation
30	221MRSN	Morrison Formation
30	221RDTR	Redwater Shale Member of Sundance Formation
30	221RIRD	Rierdon Formation of Ellis Group
30	221RRDN	Rierdon Formation of Ellis Group
30	221SKBV	Stockade Beaver Shale Member of Sundance Formation
30	221SNDC	Sundance Formation
30	221SWFT	Swift Formation of Ellis Group
30	221SWIF	Swift Formation of Ellis Group
30	224BOWS	Bowes Member of Piper Formation
30	224FRMN	Firemoon Limestone Member of Piper Formation
30	224GPSP	Gypsum Spring Formation
30	224KLIN	Kline Member of Nesson Formation
30	224NSSN	Nesson Formation
30	224PCRD	Picard Member of Nesson Formation
30	224PIPR	Piper Formation
30	224POE	Poe Member of Nesson Formation
30	224STTH	Sawtooth Formation of Ellis Group
30	224TMPC	Tampico Member of Piper Formation
30	230ALCV	Alcova Limestone Member of Chugwater Formation
30	230BWLR	Bowler Formation Triassic and Permian
30	230CGTR	Chugwater Formation
30	230CRMN	Crow Mountain Sandstone Member of Chugwater Formation
30	230GSEG	Goose Egg Formation
30	230RDPK	Red Peak Member of Chugwater Formation
30	230SPRF	Spearfish Formation (Triassic-Permian)
30	230TRSC	Triassic System
30	231PPAG	Popo Agie Member of Chugwater Formation
30	237DNDY	Dinwoody Formation
30	237SPRF	Spearfish Formation
30	237TYNS	Thaynes Limestone, Formation or Group
30	237WDSD	Woodside Formation, Siltstone and/or Redbeds

30	300PLZC	Paleozoic Erathem
30	310FRNS	Franson Member or Tongue of Park City Formation
30	310GPKC	Grandeur Member or Tongue of Park City Formation
30	310GRAD	Grandeur Member of Park City Formation
30	310GRDR	Grandeur Member of Park City Formation
30	310MDPK	Meade Peak Phosphatic Shale Member or Tongue of Phosphoria Formation
30	310MNLS	Minnelusa Formation (Permian and Pennsylvanian)
30	310PRKC	Park City Formation or Group
30	310PRMN	Permian System
30	310PSPR	Phosphoria Formation
30	310REX	Rex Chert Member of Phosphoria Formation
30	310RPHP	Retort Phosphatic Shale Member or Tongue of Phosphoria Formation
30	310RTRT	Retort Phosphatic Shale Member or Tongue of Phosphoria Formation
30	310RXPP	Rex Chert Member of Phosphoria Formation
30	310SDRN	Shedhorn Sandstone
30	310TOSI	Tosi Chert Member or Tongue of Phosphoria Formation
30	317MNKT	Minnekahta Limestone Member of Goose Egg Formation
30	317OPCH	Opeche Shale
30	317TSLP	Tensleep Sandstone
30	320AKBC	Alaska Bench Limestone of Amsden Group
30	320AMSD	Amsden Formation
30	320DRWN	Darwin Sandstone of Amsden Group
30	320DVPK	Devils Pocket Formation of Amsden Group
30	320PSLV	Pennsylvanian System
30	320QDRN	Quadrant Quartzite or Formation
30	320TYLR	Tyler Formation of Amsden Group
30	320TYLRA	Tyler Formation of Amsden Group
30	330BKKN	Bakken Formation (Mississippian-Devonian)
30	330CLRF	Castle Reef Dolomite of Madison Group
30	330EGLD	Englewood Formation
30	330HNNH	Hannah Limestone
30	330MDLC	Middle Canyon Formation of White Knob Group
30	330MLGN	Milligen Formation
30	330MSSP	Mississippian System
30	330SCPK	Scott Peak Formation of White Knob Group
30	330SCRK	South Creek Formation of White Knob Group
30	330SRCN	Surrett Canyon Formation of White Knob Group
30	330SRVR	Sun River Member of Castle Reef Dolomite
30	330WKNB	White Knob Group
30	331A A	Zone of Charles Formation
30	331B B	Zone of Charles Formation
30	331BGSN	Big Snowy Group
30	331C C	Zone (Berentson Zone) of Charles Formation
30	331CARL	Charles Formation of Madison Group
30	331CRLS	Charles Formation of Madison Group
30	331HETH	Heath Formation or Shale of Big Snowy Group
30	331KBBY	Kibbey Sandstone of Big Snowy Group
30	331KIBB	Kibbey Sandstone of Big Snowy Group
30	331MDSN	Madison Group (Upper and Lower Mississippian)
30	331MIDL	Midale Zone of Charles Formation
30	331MSNC	Mission Canyon Limestone

30	331OTTR	Otter Formation of Big Snowy Group
30	337ALMN	Allen Mountain Limestone of Madison Group
30	337D	D Zone of Mission Canyon Formation
30	337DNLK	Dean Lake Chert Member of Madison Limestone
30	337LCFC	Little Chief Canyon Member of Lodgepole Limestone
30	337LDGP	Lodgepole Limestone of Madison Group
30	337MNRM	Monitor Mountain Limestone Member of Madison Limestone
30	337PHSP	Pahasapa Limestone
30	337PINE	Paine Shale Member of Lodgepole Formation
30	337RONY	Rooney Chert Member of Madison Limestone
30	337SLVP	Silvertip Conglomerate Member of Madison Limestone
30	337SPNG	Sappington Sandstone Member of Three Forks Shale
30	337SYPO	Saypo Limestone Member of Madison Limestone
30	337WDRS	Woodhurst Limestone Member of Lodgepole Formation
30	340DVNN	Devonian System
30	341BRDB	Birdbear Formation
30	341BVLK	Beaverhill Lake Group or Formation
30	341CPLK	Coopers Lake Limestone Member of Jefferson Limestone
30	341DPRW	Duperow Formation of Jefferson Group
30	341DRBY	Darby Formation
30	341DUPR	Duperow Formation of Jefferson Group
30	341EXSH	Exshaw Shale
30	341GLCK	Glen Creek Shale Member of Jefferson Limestone
30	341GRDV	Grand View Dolomite
30	341JEFF	Jefferson Limestone, Dolomite, Formation or Group
30	341JFRS	Jefferson Limestone Dolomite Formation or Group
30	341LNBT	Lone Butte Limestone Member of Jefferson Limestone
30	341NSKU	Nisku Formation
30	341PTLC	Potlatch Formation or Anhydrite
30	341SPDB	Spotted Bear Limestone Member of Jefferson Limestone
30	341SRRV	Souris River Formation
30	341TRFK	Three Forks Shale
30	341UNON	Union Shale
30	341WDBD	Woodbend Formation
30	341WRDG	White Ridge Limestone Member of Jefferson Limestone
30	344ASRN	Ashern Formation
30	344BRTB	Beartooth Butte Formation
30	344DSNB	Dawson Bay Formation
30	344ELKP	Elk Point Group
30	344MYWD	Maywood Formation
30	344PRAR	Prairie Evaporite Formation of Elk Point Group
30	344PRIR	Prairie Evaporite Formation of Elk Point Group
30	344WPGS	Winnipegosis Formation
30	350IRLK	Interlake Formation
30	350LKTN	Laketown Dolomite
30	350SLRN	Silurian System
30	360DDWD	Deadwood Formation
30	360ODVC	Ordovician System
30	361BGRN	Bighorn Dolomite
30	361GNTN	Gunton Member of Stony Mountain Formation
30	361HRDG	Harding Sandstone of Bighorn Dolomite
30	361LIGH	Leigh Dolomite Member of Bighorn Dolomite
30	361LNDR	Lander Sandstone Member of Bighorn Dolomite
30	361RDRV	Red River Formation of Bighorn Group

30	361RERV	Red River Formation of Bighorn Group
30	361SNMN	Stony Mountain Formation
30	361SONM	Stony Mountain Formation of Bighorn Group
30	361STGN	Stoughton Member of Stony Mountain Formation
30	361WHTD	Whitewood Dolomite
30	364ALDN	Aladdin Sandstone Member of Winnipeg Formation
30	364ICBX	Icebox Shale Member of Winnipeg Formation
30	364KNKC	Kinnikinic Quartzite
30	364RGCK	Roughlock Siltstone
30	364WNPG	Winnipeg Formation
30	367EMRS	Emerson Formation
30	370BKSP	Buck Spring Formation
30	370CMBR	Cambrian System
30	370TLDN	Tilden Formation
30	371CMBR	Cambrian System, Upper
30	371DRBR	Dearborn Limestone
30	371DRCK	Dry Creek Shale
30	371DUNR	Du Noir Limestone Member of Gallatin Limestone
30	371DVLG	Devils Glenn Dolomite
30	371GLTN	Gallatin Limestone or Formation
30	371GVCK	Grove Creek Member of Snowy Range Formation
30	371HMRK	Hasmark Formation or Dolomite
30	371OPDR	Open Door Limestone
30	371PIGM	Pilgrim Limestone or Dolomite
30	371PLGM	Pilgrim Limestone or Dolomite
30	371RDLN	Red Lion Formation
30	371SCBK	Switchback Shale
30	371SNRG	Snowy Range Formation of Gallatin Group
30	371SORG	Snowy Range Formation of Gallatin Group
30	371YOGO	Yogo Limestone
30	374ALPR	Alpreston Quartzite
30	374DCNN	Death Canyon Limestone Member of Gros Ventre Formation
30	374DETC	Death Canyon Limestone Member of Gros Ventre Formation
30	374DMNN	Damnation Limestone
30	374FLTD	Flathead Quartzite or Sandstone
30	374GRDN	Gordon Shale
30	374GRVR	Gros Ventre Formation
30	374MGHR	Meagher Limestone
30	374PARK	Park Shale or Argillite
30	374PARKA	Park Shale or Argillite
30	374PGOD	Pagoda Limestone
30	374PNGN	Pentagon Shale
30	374SLVL	Silver Hill Formation
30	374WLSY	Wolsey Shale or Formation
30	377EMRS	Emerson Formation
30	377GRDN	Gordon Shale
30	377PGOD	Pagoda Limestone
30	377PNGN	Pentagon Shale
30	377SCBK	Switchback Shale
30	377SLVH	Silver Hill Formation
30	377STMB	Steamboat Limestone
30	400AHRN	Ahorn Quartzite
30	400ALTN	Altyn Limestone
30	400APKN	Appekunny Formation

30	400BCRD	Bouchard Formation of Missoula Group
30	400BELT	Belt Supergroup
30	400BELTG	Belt Supergroup
30	400BNNR	Bonner Quartzite of Missoula Group
30	400BURK	Burke Formation of Ravalli Group
30	400CMBL	Chamberlain Shale
30	400COOK	Cook Granite
30	400CRCK	Cherry Creek Group (Pre-belt)
30	400CYUS	Cayuse Limestone
30	400EMPR	Empire Formation
30	400GCRK	Goose Creek Granite
30	400GRNL	Grinnell Formation of Ravalli Group
30	400GRRG	Garnet Range Quartzite or Formation of Missoula Group
30	400GRRM	Greenhorn Mountain Quartzite
30	400GRSN	Greyson Shale
30	400GTWY	Gateway Formation
30	400HDLY	Hoadley Formation
30	400HELN	Helena Dolomite
30	400HLGT	Hellgate Quartzite Member of Miller Peak Argillite
30	400KNTL	Kintla Argillite of Missoula Group
30	400LBBY	Libby Formation of Missoula Group
30	400LHOD	Lahood Formation
30	400LMHI	Lemhi Quartzite
30	400LUPN	Lupine Quartzite of Missoula Group
30	400MCMR	Mcnamara Argillite or Formation of Missoula Group
30	400MLPK	Miller Peak Argillite or Formation of Missoula Group
30	400MRSH	Marsh Formation of Missoula Group
30	400MSSL	Missoula Group
30	400NHRT	Neihart Quartzite
30	400NLND	Newland Formation or Limestone
30	400PCMB	Precambrian Erathem
30	400PIGN	Piegian Group
30	400PLCR	Pilcher Quartzite of Missoula Group
30	400PONY	Pony Series (Pre-belt)
30	400PRBL	Pre-Belt Rocks
30	400PRCD	Prichard Formation or Slate
30	400PRCL	Purcell Basalt of Missoula Group
30	400RVLL	Ravalli Group of Belt Supergroup
30	400RVLLG	Ravalli Group of Belt Supergroup
30	400RVTT	Revett Formation of Ravalli Group of Belt Supergroup
30	400RVTTG	Revett Formation of Ravalli Group of Belt Supergroup
30	400SIYH	Siyeh Limestone of Piegian Group
30	400SLWY	Sloway Formation of Missoula Group
30	400SPKN	Spokane Shale
30	400SPPK	Striped Peak Formation of Missoula Group
30	400SPRC	Spruce Formation of Missoula Group
30	400SPRD	Shepard Formation of Missoula Group
30	400SRGS	St Regis Formation of Ravalli Group of Belt Supergroup
30	400SRGSG	St Regis Formation of Ravalli Group of Belt Supergroup
30	400STLR	Stillwater Complex (Pre-belt)
30	400SWGR	Swauger Quartzite
30	400WALC	Wallace Formation of Piegian Group
30	400WLLC	Wallace Formation of Piegian Group
30	420EMPR	Empire Formation (Middle Proterozoic)

30	420GRSN	Greyson Formation (Middle Proterozoic)
30	420HELN	Helena Formation (Middle Proterozoic)
30	420MSLD	Mount Shields Formation (Middle Proterozoic)
30	420SPKN	Spokane Formation (Middle Proterozoic)
30	420SPRD	Shepard Formation (Middle Proterozoic)
30	420SSLP	Snowslip Formation (Middle Proterozoic)
30	BASEMENT	Basement
30	BEDROCK	Bedrock
31	100CNZC	Cenozoic Erathem
31	10DUNE	Dune, Quaternary (Holocene or Pleistocene, Unknown)
31	110DUNE	Dune Sand
31	110QRNR	Quaternary System
31	110SAGR	Sand and Gravel Deposits, Undifferentiated
31	110SDGV	Sand and Gravel Deposits, Undifferentiated
31	110WDBS	Windblown Sand Deposits, Undifferentiated
31	111ALVM	Holocene Alluvium
31	111HLCN	Holocene Series
31	112LOSS	Loess
31	112PLPL	Plio-Pleistocene, Sand and Gravel Deposits, Undifferentiated
31	112PLSC	Pleistocene Series
31	112SDGV	Sand and Gravel Deposits
31	112SDGVD	Sand and Gravel Deposits
31	112SDHL	Sandhills Deposits
31	112TILL	Till
31	120TRTR	Tertiary System
31	121OGLL	Ogallala Formation
31	121PLCN	Pliocene Series
31	122ARIK	Arikaree Group
31	122ARKR	Arikaree Group
31	122GRNG	Gering Formation
31	122HMGF	Hemingford Group
31	122HRSN	Harrison Sandstone
31	122MOCN	Miocene Series
31	122MRCK	Monroe Creek Formation
31	122MRLD	Marsland Formation
31	122SPCK	Sheep Creek Formation
31	123BRUL	Brule Formation of White River Group
31	123CDRN	Chadron Formation of White River Group
31	123CDRNB	Chadron Formation, Basal Sand and Gravel
31	123OLGC	Oligocene Series
31	123WRVR	White River Group
31	123WRVRG	White River Group
31	200MSZC	Mesozoic Erathem
31	210CRCS	Cretaceous System
31	211BLHL	Blue Hill Shale Member of Carlile Shale
31	211CDLL	Codell Sandstone Member of Carlile Shale
31	211CLRD	Colorado Group
31	211CRCSU	Upper Cretaceous Series
31	211CRLI	Carlile Shale
31	211DKOT	Dakota Sandstone or Formation
31	211FRPR	Fairport Chalky Shale Member of Carlile Shale
31	211FTHS	Fort Hays Limestone Member of Niobrara Formation
31	211FXHL	Fox Hills Formation

31	211GRER	Greenhorn Limestone
31	211GRNR	Greenhorn Limestone or Formation
31	211GRRS	Graneros Shale
31	211LNCE	Lance Formation
31	211MNTN	Montana Group
31	211MNTNU	Montana Group, Upper (Lance Formation-Fox Hills Sandstone)
31	211NBRR	Niobrara Formation
31	211PIRR	Pierre Shale
31	211SMHI	Smoky Hill Shale Member of Niobrara Formation
31	211SMKH	Smoky Hill Shale Member of Niobrara Formation
31	217CRCSL	Lower Cretaceous Series
31	217D D Sand	
31	217FARV	Fall River Sandstone
31	217FLRV	Fall River Sandstone
31	217INKR	Inyan Kara Group
31	217J J Sand	
31	217LKOT	Lakota Formation
31	217NCSL	Newcastle Sandstone
31	217SKCK	Skull Creek Shale
31	217SKCKS	Skull Creek Shale of the Dakota Group
31	220JRSC	Jurassic System
31	221JRSCU	Upper Jurassic Series
31	221MRSN	Morrison Formation
31	221SNDC	Sundance Formation
31	230SPRF	Spearfish Formation (Triassic-Permian)
31	230TRSC	Triassic System
31	300PLZC	Paleozoic Erathem
31	310BMCK	Broom Creek Group
31	310BMCKG	Broom Creek Group
31	310CASA	Cassa Group
31	310CASS	Cassa Group
31	310JSLV	Janesville Shale
31	310MFLD	Matfield Shale
31	310NLNS	Nolans Limestone
31	310NNSC	Ninnescah Shale
31	310ONAG	Onaga Shale
31	310PRMN	Permian System
31	311ERVY	Ervay Equivalent
31	311FRLI	Forelle Limestone
31	311GLND	Glendo Shale
31	311PRMNU	Upper Permian Series
31	317FLSC	Falls City Limestone
31	317FNSN	Funston Limestone
31	317OPCH	Opeche Shale
31	317PRMNL	Lower Permian Series
31	318LNRD	Leonardian Series
31	318MNKT	Minnekahta Limestone
31	318SCRL	Stone Corral Formation
31	319ADMR	Admire Group
31	319BDER	Bader Limestone
31	319BRNS	Barneston Limestone
31	319BRPD	Blue Rapids Shale
31	319BTTI	Beattie Limestone

31	319CCGV	Council Grove Group
31	319CHSE	Chase Group
31	319CRUS	Crouse Limestone
31	319DOYL	Doyle Shale
31	319EKDG	Eskridge Shale
31	319ELCK	Easley Creek Shale
31	319FRCK	Foraker Limestone
31	319GRNL	Grenola Limestone
31	319JNSN	Johnson Shale
31	319ODEL	Odell Shale
31	319RDEG	Red Eagle Limestone
31	319ROCA	Roca Shale
31	319SPSR	Speiser Shale
31	319SRNS	Sterns Shale
31	319WFLD	Winfield Limestone
31	319WFMP	Wolfcampian Series
31	319WRFR	Wreford Limestone
31	320PSLV	Pennsylvanian System
31	321PSLVU	Upper Pennsylvanian Series
31	322ABRN	Auburn Shale
31	322BERN	Bern Limestone
31	322CASS	Cass Limestone
31	322CLHN	Calhoun Shale
31	322DGLS	Douglas Group
31	322DRCK	Deer Creek Limestone
31	322EMPR	Emporia Limestone
31	322HWRD	Howard Limestone
31	322KNWK	Kanwaka Shale
31	322LCMP	Lecompton Limestone
31	322LRNC	Lawrence Shale
31	322ORED	Oread Limestone
31	322PLBR	Pillsbury Shale
31	322PLFD	Plattford Shale
31	322ROOT	Root Shale
31	322SCRN	Scranton Shale
31	322SHWN	Shawnee Group
31	322SRGR	Stranger Formation
31	322STLR	Stotler Limestone
31	322SVRY	Severy Shale
31	322TCMS	Tecumseh Shale
31	322TOPK	Topeka Limestone
31	322VRGL	Virgilian Series
31	322WBNS	Wabaunsee Group
31	322WDSG	Wood Siding Shale
31	322WLRD	Willard Shale
31	322ZNOL	Zeandale Limestone
31	323BSPG	Bonner Springs Shale
31	323CANT	Chanute Shale of the Kansas City Group
31	323CHNT	Chanute Shale
31	323DNNS	Dennis Limestone
31	323DRUM	Drum Limestone
31	323FNTN	Fontana Shale
31	323FONT	Fontana Shale
31	323GLBG	Galesburg Shale

31	323HRT	Hertha Limestone
31	323IATN	Iatan Limestone
31	323IOLA	Iola Limestone
31	323KSSC	Kansas City Group
31	323LANE	Lane Shale
31	323LDOR	Ladore Shale
31	323LNSG	Lansing Group
31	323MSSR	Missourian Series
31	323PEDE	Pedee Group
31	323PLBG	Plattsburg Limestone
31	323PLSN	Pleasanton Group
31	323QUIV	Quivira Shale Member of Cherryvale Formation
31	323QVR	Quivira Shale Member of Cherryvale Formation
31	323SRPY	Sarpy Formation
31	323STNN	Stanton Limestone
31	323SWOP	Swope Limestone
31	323VILS	Vilas Shale
31	323WNDT	Wyandotte Limestone
31	323WSTN	Weston Shale
31	324PSLVM	Middle Pennsylvanian Series
31	325ALMN	Altamont Limestone
31	325ARDM	Ardmore Limestone
31	325BNDR	Bandera Shale
31	325CHRK	Cherokee Group
31	325DSMS	Des Moinesian Series
31	325FRSC	Fort Scott Limestone
31	325LBTT	Labette Shale
31	325MRMN	Marmaton Group
31	325NOWT	Nowata Shale
31	325PWNE	Pawnee Limestone
31	330CTNG	Chattanooga Shale
31	330MSSP	Mississippian System
31	331MSSPU	Mississippian, Upper
31	333MRMC	Meramecian Series
31	333SGVV	Ste. Genevieve Limestone
31	333SLEM	Salem Limestone
31	333SPRG	Spergen Limestone
31	333SPRGT	Spergen Limestone
31	333STLS	St. Louis Limestone
31	333WRSW	Warsaw Formation
31	337MSSPL	Mississippian, Lower
31	338KKKB	Keokuk-Burlington Limestones, Undifferentiated
31	338OSGE	Osagean Series
31	339BOIC	Boice Shale
31	339GLMC	Gilmore City Limestone
31	339HMPN	Hampton Formation
31	339KDRK	Kinderhookian Series
31	340DVNN	Devonian System
31	341DVNNU	Devonian, Upper
31	341LMCK	Lime Creek Formation
31	344CDVL	Cedar Valley Limestone
31	344DVNNM	Devonian, Middle
31	344WPPC	Wapsipinicon Limestone
31	350SLRN	Silurian System

31	354SLRNM	Silurian, Middle
31	355GOWR	Gower Formation
31	355HPKN	Hopkinton Formation
31	355NGRN	Niagaran Series
31	357KNKK	Kankakee Formation
31	360ODVC	Ordovician System
31	361MQKT	Maquoketa Shale
31	361ODVCU	Ordovician, Upper
31	362CNCN	Cincinnatian Series
31	364DCRH	Decorah Formation
31	364GLEN	Galena Dolomite
31	364ODVCM	Ordovician, Middle
31	364PLVL	Platteville Formation
31	364STPR	St Peter Sandstone
31	365CMPL	Champlainian Series
31	367ODVCL	Ordovician, Lower
31	367PRDC	Prairie Du Chien Group
31	367PRDCG	Prairie Du Chien Group
31	368CNDN	Canadian Series
31	370CMBR	Cambrian System
31	371CMBRU	Cambrian, Upper
31	371DRBC	Dresbach Group
31	371FRNC	Franconia Sandstone
31	371TMPL	Trempealeau Formation
31	400IGNS	Precambrian Igneous Rocks
31	400MMPC	Precambrian Metamorphic Rocks
31	400MMRP	Metamorphic Rocks Undifferentiated
31	400PCMB	Precambrian Erathem
31	400SOUX	Sioux Quartzite
31	BASEMENT	Basement
31	BEDROCK	Bedrock
32	100CLDD	Consolidated Rocks
32	100VFRV	Valley-Fill Reservoir
32	100VLFL	Valley Fill
32	110CLDD	Consolidated Deposits
32	110LSVG	Las Vegas Formation
32	110QRNR	Quaternary System
32	110UCDD	Unconsolidated Deposits
32	110VLCC	Volcanic Rocks
32	110VLFL	Valley Fill
32	111ALVF	Alluvial Fan Deposits
32	111ALVFY	Alluvial-Fan Deposits, Younger
32	111ALVM	Holocene Alluvium
32	111ALVMY	Alluvium, Younger
32	111CLVM	Colluvium
32	111CNNL	Channel Deposits
32	111DUNE	Dune Sand
32	111FLDP	Flood-Plain Deposits
32	111GVLB	Gravel-Bar Deposits
32	111HLCN	Holocene Series
32	111LDLD	Landslide Deposits
32	111LKBP	Lakebeds and Playa Deposits
32	111PLAY	Playa Deposits
32	111SNTR	Sinter Deposits

32	111TUFF	Tuffa Deposits
32	112ALVFO	Alluvial-Fan Deposits, Older
32	112ALVM	Alluvium, Older
32	112ALVMO	Alluvium, Older
32	112BBRG	Basalt of Basalt Ridge
32	112BRGR	Brouher Dacite
32	112DUNE	Dunes, Pleistocene
32	112FGLM	Fanglomerate
32	112GLCL	Glacial Deposits
32	112HCMP	Horse Camp Formation
32	112LKBD	Lakebed Deposits
32	112LKBDD	Lake Bed Deposits
32	112LKBP	Lakebeds and Playa Deposits
32	112ODDI	Oddie Rhyolite
32	112PLSC	Pleistocene Series
32	112RBSP	Rabbit Spring Formation
32	112SNTR	Sinter Deposits
32	112TUFF	Tuffa Deposits
32	112VLCC	Volcanic Rocks
32	120CCOV	Charcoal Oven Tuff
32	120CLDD	Consolidated Deposits
32	120CRNT	Currant Tuff
32	120GLHL	Gale Hills Formation (Possibly Cretaceous)
32	120GRNC	Granitic Rocks
32	120HSPG	Horse Spring Formation
32	120IDVD	Ida Vada Volcanics
32	120JPRD	Jasperoid Breccia
32	120KNSC	Kinsey Canyon Formation
32	120OVRN	Overton Formation (Possibly Cretaceous)
32	120PANC	Panaca Beds
32	120PKSM	Pancake Summit Tuff
32	120PNSL	Pansy Lee Conglomerate
32	120SDMR	Sedimentary Rocks
32	120SGLP	Shingle Pass Tuff
32	120SNCB	Stone Cabin Tuff
32	120TRTR	Tertiary System
32	120VLCC	Volcanic Rocks
32	120WDSB	Windous Butte Formation
32	121ALVFO	Alluvial-Fan Deposits, Older
32	121ALVMO	Alluvium, Older
32	121AMTK	Ammonia Tanks Member
32	121CNDC	Cottonwood Canyon Formation
32	121EMLD	Esmeralda Formation
32	121GLDF	Gold Flat Member
32	121HDCF	Hidden Cliff Trachyte
32	121HGRK	High Rock Sequence
32	121HMBD	Humboldt Formation
32	121KTPK	Kate Peak Formation
32	121LBRC	Labyrinth Canyon Member
32	121MDCK	Muddy Creek Formation
32	121PANC	Panaca Formation
32	121PLCN	Pliocene Series
32	121PSPG	Pillar Spring Rhyolite
32	121RBCF	Ribbon Cliff Rhyolite

32	121RRMS	Rainier Mesa Member
32	121SBRT	Siebert Tuff
32	121SLLK	Salt Lake Formation
32	121SNLM	Stonewall Mountain Basalt
32	121TMBM	Timber Mountain Rhyolite
32	121TRCK	Truckee Formation
32	121TRSC	Thirsty Canyon Tuff
32	121TRSR	Trail Ridge, Spearhead and Rocket Wash Members of
	Thirsty Canyon Tuff	
32	121YLCF	Yellow Cleft Trachyte
32	122ALTA	Alta Formation
32	122APSP	Antelope Springs Tuffs
32	122AR20	Tuffs and Rhyolites of Area 20
32	122BCKR	Buckwheat Rim Tuff
32	122BDRG	Belted Range Tuff
32	122BKBM	Black Beauty Mesa Tuff
32	122BSMN	Bates Mountain Tuff
32	122BSSV	Big Sand Springs Valley Rhyolite
32	122CCPK	Cactus Peak Rhyolite
32	122CHSP	Chispa Andesite
32	122CNON	Canon Rhyolite
32	122CRFL	Crater Flat Tuff
32	122DDHF	Lava and Tuff of Dead Horse Flat
32	122EDCK	Edwards Creek Tuff
32	122EMLD	Esmeralda Formation
32	122FCKM	Fish Creek Mountains Tuff
32	122FRCN	Fraction Tuff
32	122GLDF	Gold Flat Tuff and Rhyolite
32	122GRSC	Grouse Canyon Member
32	122HFDH	Hartford Hill Rhyolite Tuff
32	122HULP	Hualapai Limestone
32	122IDTL	Indian Trail Formation
32	122KCVL	Kawich Valley Rhyolite
32	122KNDL	Kendall Tuff
32	122LRCS	Lunar Cuesta Tuff
32	122MIRA	Mira Basalt
32	122MLTN	Milltown Andesite
32	122MOCN	Miocene Series
32	122MORN	Morena Rhyolite
32	122NPSS	New Pass Tuff
32	122OBKB	O Briens Knob Rhyolite
32	122ORBP	Ocher Ridge and Belted Peak Rhyolite
32	122PBRs	Paintbrush Tuff
32	122PCNN	Pah Canyon Member
32	122PEMD	Pre-Esmeralda Volcanic Rocks
32	122PRMD	Pyramid Sequence
32	122QRDM	Quartet Dome Rhyolite
32	122QRZM	Quartz Mountain Rhyolite
32	122SCKW	Stockade Wash Member
32	122SCRM	Saucer Mesa Trachyte
32	122SDRM	Sandstorm Rhyolite
32	122SLFL	Stonewall Flat Andesite
32	122SLYR	Salyer Formation
32	122TBSP	Tub Springs Member

32	122TCPK	Tolicha Peak Tuff
32	122TPPS	Topopah Spring Member
32	122TVCN	Tiva Canyon Member
32	122VDCR	Vindicator Rhyolite
32	122VLCC	Volcanic Rocks
32	122WBSP	White Blotch Spring Tuff
32	122WCMP	Wilsons Camp Tuff
32	122WHMN	Wahmonie Formation
32	122WRDG	White Ridge Rhyolite
32	123BGRV	Big Round Valley Tuff
32	123BKRS	Black Rock Summitt Tuff
32	123CLWL	Calloway Well Formation
32	123CTNO	Caetano Tuff
32	123GMGC	Gilmore Gulch Formation
32	123HCKC	Hot Creek Canyon Tuff
32	123HFDH	Hartford Hill Rhyolite
32	123HLGM	Halligan Mesa Tuff
32	123MNTN	Monotony Tuff
32	123MRSB	Moores Station Butte Tuff
32	123MZPH	Mizpah Trachyte
32	123NDLS	The Needles Tuff
32	123NDRG	Needles Range Formation
32	123OLCK	Orange Lichen Creek Tuff
32	123OLGC	Oligocene Series
32	123PCDS	Prichards Station
32	123PHLV	Pott Hole Valley Tuff
32	123PHRH	Pah Rah Formation
32	123PLDM	Palisade Mesa Tuff
32	123RRKC	Red Rock Canyon Tuff
32	123STWL	South Willow Formation
32	123TNPH	Tonopah Formation
32	123TPKS	Twin Peaks Tuff
32	123TSCN	Titus Canyon Formation
32	123WRMP	Williams Ridge and Morey Peak Tuff
32	124SPPS	Sheep Pass Formation
32	200GRNC	Granitic Rocks
32	200MMPC	Metamorphic Rocks
32	200SDMR	Sedimentary Rocks
32	210CKCC	Chokecherry Canyon Formation
32	210GDVL	Garden Valley Formation
32	210GRNC	Granitic Rocks
32	210IRSV	Intrusive Rocks
32	210KGLR	King Lear Formation
32	210NRKC	Newark Canyon Formation
32	210THMB	Thumb Formation
32	210WLTK	Willow Tank Formation
32	210WVRC	Weaver Canyon Breccia
32	220AZTC	Aztec Sandstone
32	220GRNC	Granitic Rocks
32	220NGGL	Nightingale Sequence
32	220PVIN	Peavine Sequence
32	227DNLP	Dunlap Formation
32	230AGST	Augusta Sequence
32	230CSPG	Cane Spring Formation

32	230DNGL	Dun Glen Formation
32	230DXVL	Dixie Valley Formation
32	230EXCL	Excelsior Formation
32	230MNKP	Moenkopi Formation
32	230NCZP	Natchez Pass Formation
32	230PRID	Pride Formation
32	230RSPB	Raspberry Formation
32	230SRPK	Star Peak Group
32	230TOBN	Tobin Formation
32	230WNMC	Winnemucca Formation
32	231CHNL	Chinle Formation
32	231CSPG	Crane Spring Formation
32	231GBBS	Gabbs Formation
32	231GRVL	Grass Valley Formation
32	231LNNG	Luning Formation
32	231OSBB	Osobb Formation
32	231SNRS	Sunrise Formation
32	231SUNR	Sunrise Formation
32	234AGSM	Augusta Mountain Formation
32	234CNMN	China Mountain Formation
32	234FVRT	Favret Formation
32	234GRVL	Grantsville Formation
32	234PNRC	Panther Canyon Formation
32	237CDLR	Candelaria Formation
32	237QVR	Quinn River Formation
32	300CCSM	Clastic Sedimentary Rocks
32	300CRBN	Carbonate Rocks
32	300MMPC	Metamorphic Rocks
32	300RGWS	Regional Groundwater System
32	310ALPK	Antler Peak Limestone
32	310ANLR	Antler Sequence
32	310ARCR	Arcturus Formation
32	310BTTL	Battle Formation
32	310CBRG	Carbon Ridge Formation
32	310CCNN	Coconino Formation
32	310DBLO	Diablo Formation
32	310EDNM	Edna Mountain Formation
32	310GRDR	Grandeur Formation
32	310GRSR	Gerster Formation
32	310HGHI	Highway Limestone
32	310HPCK	Happy Creek Volcanic Series
32	310HVLL	Havallah Sequence
32	310KIBB	Kaibab Limestone
32	310KOPT	Koipata Group
32	310LORY	Loray Formation
32	310MDPK	Meade Peak Formation
32	310MEAD	Meade Peak Formation
32	310PBLO	Pablo Formation
32	310PLMP	Plympton Formation
32	310PQUP	Pequop Formation
32	310PRKC	Park City Group
32	310PRKCG	Park City Group
32	310PSPR	Phosphoria Formation
32	310RBHL	Rib Hill Formation

32	310RPSP	Riepe Spring Formation
32	310TPPP	Tippipah Limestone
32	310TRWP	Toroweap Formation
32	313GDLP	Guadalupian Rocks
32	313GUDP	Guadalupian Rocks
32	317BSPG	Bird Spring Formation
32	317CLVL	Callville Limestone
32	320BCKC	Brock Canyon Formation
32	320ELY	Ely Limestone
32	320HVLL	Havallah Formation
32	320ISKP	Inskip Formation
32	320KOPT	Koipato Formation
32	320PMPK	Pumpernickel Formation
32	320WCPK	Wildcat Peak Formation
32	324ELY	Ely Limestone
32	327ELEN	Eleana Formation
32	330JOAN	Joana Limestone
32	330LECH	Leach Formation
32	330RGSP	Rogers Spring Limestone
32	331CNMN	Chainman Shale
32	331DMPK	Diamond Peak Formation
32	331MCRS	Monte Cristo Limestone
32	331MKLJ	Meiklejohn Formation
32	337PLOT	Pilot Shale
32	340DVMP	Mississippian-Devonian Systems
32	340DVNN	Devonian System
32	340SLVN	Slaven Chert
32	341GLMT	Guilmette Formation
32	341SLTNM	Sultan Limestone
32	344FLPC	Fluorspar Canyon Formation
32	344MDPK	Muddy Peak Limestone
32	344NEVD	Nevada Formation
32	344SEVY	Sevy Dolomite
32	344SMNS	Simonson Dolomite
32	350ELDR	Elder Sandstone
32	350ESPG	Ely Springs Dolomite
32	350HCRK	Hanson Creek Dolomite
32	350LKTN	Laketown Dolomite
32	350LNMN	Lone Mountain Dolomite
32	350MCMG	Mc Monnigal Limestone
32	350SLRN	Silurian System
32	350TOR	Tor Limestone
32	354RBRM	Roberts Mountain Formation
32	360ALPV	Antelope Valley Limestone
32	360BRDC	Broad Canyon Formation
32	360CLPC	Clipper Canyon Sequence
32	360CMUS	Comus Formation
32	360GCLF	Gatecliff Formation
32	360MSKT	Masket Shale
32	360NNML	Ninemile Formation
32	360ODVC	Ordovician System
32	360PLMT	Palmetto Formation
32	360PNCN	Pinecone Sequence
32	360SMRG	Sonoma Range Formation

32	360VINN	Vinini Formation
32	360VLMY	Valmy Formation
32	360WLCN	Willow Canyon Sequence
32	361EURK	Eureka Quartzite
32	361FSHV	Fish Haven Dolomite
32	364ALPV	Antelope Valley Limestone
32	364ESPG	Ely Springs Dolomite
32	364PGNP	Pogonip Group
32	367GDWN	Goodwin Limestone
32	367NNML	Nine Mile Formation
32	370CBPB	Cambrian System-Precambrian Erathem
32	370CMBR	Cambrian System
32	370GDPG	Goodsprings Dolomite
32	370GLDH	Gold Hill Formation
32	370HRMN	Harmony Formation
32	370LCPK	Lincoln Peak Formation
32	370LMSN	Cambrian Limestone
32	370OGDM	Osgood Mountain Quartzite
32	370PDBG	Post-Dunderburg Shale
32	370PLCN	Pole Canyon Limestone
32	370PRBL	Preble Formation
32	370SBCK	Swarbrick Formation
32	370SLLK	Stella Lake Quartzite
32	370TYBO	Tybo Shale
32	370WDCN	Wood Canyon Formation
32	370WDFL	Windfall Limestone
32	371BZKG	Bonanza King Formation
32	371CRNCM	Crane Canyon Formation
32	371CSPG	Corset Spring Shale
32	371DDBG	Dunderburg Shale
32	371EMGRM	Emigrant Formation
32	371HLES	Hales Limestone
32	371HLFP	Halfpint Member of Nopah Formation
32	371HMBG	Hamburg Dolomite
32	371NCPK	Notch Peak Limestone
32	371NOPH	Nopah Formation
32	371SHWN	Shwin Formation
32	371SMKM	Smoky Member of Nopah Formation
32	374CRRR	Carrara Formation
32	374CSLM	Chisholm Shale
32	374ELDDL	Eldorado Dolomite
32	374HGPK	Highland Peak Limestone
32	374LNDN	Lyndon Limestone
32	374POCH	Pioche Shale
32	374TPTSL	Lower Tapeats Sandstone
32	377CRRR	Carrara Formation
32	377HRKL	Harkless Formation
32	377MLRM	Miller Mountain Formation
32	377MSPG	Mule Spring Formation
32	377POLT	Poleta Formation
32	377PPCM	Prospect Mountain Quartzite
32	377SCCN	Scott Canyon Formation
32	377ZBRK	Zabriskie Quartzite
32	400CMPT	Campito Formation

32	400DPSP	Deep Spring Formation
32	400JHNN	Johnnie Formation
32	400MCK	Mc Coy Creek Group
32	400PCMB	Precambrian Erathem
32	400REED	Reed Dolomite
32	400SRLG	Stirling Quartzite
32	400WYMN	Wyman Formation
32	BASEMENT	Basement
32	BEDROCK	Bedrock
33	110ALVM	Alluvium, Quaternary (Holocene or Pleistocene, Unknown)
33	110AUV	Alluvium, Quaternary (Holocene or Pleistocene, Unknown)
33	110BECH	Beach Deposits (Marine & Non-Marine), Quaternary
33	110BECHM	Beach Deposits (Marine & Non-Marine), Quaternary
33	110CLVM	Colluvium, Quaternary (Holocene or Pleistocene, Unknown)
33	110COVM	Colluvium, Quaternary (Holocene or Pleistocene, Unknown)
33	110DELT	Delta Deposit, Quaternary (Holocene or Pleistocene, Unknown)
33	110EOLN	Eolian Deposits, Quaternary (Holocene or Pleistocene, Unk)
33	110FAN	Alluvial Fan, Quaternary (Holocene or Pleistocene, Unk)
33	110LAKE	Lake Deposit, Quaternary (Holocene or Pleistocene, Unknown)
33	110LDLD	Landslide, Quaternary (Holocene or Pleistocene, Unknown)
33	110MRER	Marine & Estuarine Deposits, Quaternary
33	110NRSR	Nearshore Deposits (Marine & Non-Marine), Quaternary
33	110SDMN	Sediments, Undifferentiated, Quaternary
33	110SOIL	Soil, Quaternary (Holocene or Pleistocene, Unknown)
33	110TLUS	Talus, Quaternary (Holocene or Pleistocene, Unknown)
33	111ALVM	Holocene Alluvium
33	111BECH	Beach Deposits, Marine & Non-Marine, Holocene
33	111BECHM	Beach Deposits, Marine & Non-Marine, Holocene
33	111CLVM	Colluvium
33	111DELT	Delta Deposit, Holocene
33	111DUNE	Dunes, Holocene
33	111DUNES	Dunes, Holocene
33	111EOLN	Eolian Deposits
33	111FAN	Alluvial Fan, Holocene
33	111FILL	Fill
33	111LAKE	Lake Deposits
33	111LDSD	Landslide, Holocene
33	111MRER	Marine & Estuarine Deposits, Holocene
33	111MRIN	Marine Deposits
33	111NRSR	Nearshore Deposits (Marine & Non-Marine), Holocene
33	111SDMN	Sediments, Undifferentiated
33	111SLMR	Salt-Marsh Deposits
33	111SOIL	Soil
33	111SWMP	Swamp Deposits
33	111TLUS	Talus, Holocene
33	112ABLN	Ablation Till, Pleistocene
33	112BECH	Beach (Marine and Non-Marine), Pleistocene
33	112BECHM	Beach (Marine and Non-Marine), Pleistocene
33	112DELT	Delta Deposits
33	112DRML	Drumlins
33	112DUNE	Dunes, Pleistocene

33	112EKC	Esker & Crevasse Filling, Pleistocene
33	112EOLN	Eolian Deposits
33	112GCFV	Glacio-Fluvial, Undifferentiated, Pleistocene
33	112GLCL	Glacial Deposit, Undifferentiated, Pleistocene
33	112GLCU	Glacial Deposits, Undifferentiated
33	112ICCC	Ice-Contact Deposits, Pleistocene
33	112KAME	Kame, Pleistocene
33	112KMTC	Kame Terrace Deposits
33	112LCSR	Lacustrine Deposits
33	112LDGM	Lodgement Till, Pleistocene
33	112MORN	Moraine Deposits, Except Ground Moraine & Drumlins,
	Pleistocene	
33	112MORND	Moraine Deposits, Except Ground Moraine and Drumlins
33	112MRIN	Marine Deposits (May Include Estuarine Deposits)
33	112MRINE	Marine Deposits (May Include Estuarine Deposits)
33	112NRSR	Nearshore Deposits (Marine & Non-Marine), Pleistocene
33	112OSDL	Outwash Delta Deposit, Pleistocene
33	112OTSH	Outwash
33	112SOIL	Soil, Pleistocene
33	112SRFD	Stratified Deposits, Undifferentiated
33	112TILL	Till
33	120SDMS	Sediments
33	200CRSL	Crystalline Rocks
33	210DORT	Diorite, Cretaceous
33	210MNZN	Monzonite, Cretaceous
33	210SDMS	Sediments, Undifferentiated
33	230IGNSE	Igneous Rocks, Extrusive
33	230IGNSI	Igneous Rocks, Intrusive
33	230SDMR	Triassic Sedimentary Rocks
33	231EBRL	East Berlin Formation
33	231HLYK	Holyoke Basalt
33	231HMPD	Hampden Basalt
33	231NHVN	New Haven Formation
33	231PRLD	Portland Formation
33	300CRSL	Crystalline Rocks, Undifferentiated
33	300CRSLC	Crystalline Rocks, Carbonate
33	300CRSLN	Crystalline Rocks, Noncarbonate
33	320CRSL	Crystalline Rocks
33	320SDMR	Sedimentary Rocks
33	330BRGR	Binary Granite, Mississippian & Devonian
33	330CRSL	Crystalline Rocks
33	330SDMR	Sedimentary Rocks
33	340BGRN	Biotite Granite, Devonian
33	340CRSL	Crystalline Rocks, Undifferentiated
33	340CRSLC	Crystalline Rocks, Carbonate
33	340CRSLN	Crystalline Rocks, Noncarbonate
33	340DORT	Diorite, Devonian
33	340TNLT	Tonalite, Devonian
33	350AYER	Ayer Granodiorite, Silurian
33	350CRSL	Crystalline Rocks, Undifferentiated
33	350CRSLC	Crystalline Rocks, Carbonate
33	350CRSLN	Crystalline Rocks, Noncarbonate
33	354PRMN	Perry Mountain Formation, Middle Silurian
33	357RNGL	Rangeley Formation, Lower Silurian

33	360BRCK	Berwick Formation, Ordovician To Precambrian
33	360BRCKU	Berwick Formation (Upper Part), Ordovician To
	Precambrian	
33	360CLEF	Calef Member of Eliot Formation, Ordovician To
	Precambrian	
33	360CRSL	Crystalline Rocks, Undifferentiated
33	360CRSLC	Crystalline Rocks, Carbonate
33	360CRSLN	Crystalline Rocks, Noncarbonate
33	360ELOT	Eliot Formation, Ordovician To Precambrian
33	360GOVE	Gove Member of Berwick Formation, Ordovician To
	Precambrian	
33	360KTTR	Kittery Formation, Ordovician To Precambrian
33	360MSBC	Massabesic Gneiss Complex, Ordovician To Precambrian
33	360NBRPG	Newburyport Complex (Granite), Ordovician
33	360NBRPT	Newburyport Complex (Tonalite), Ordovician
33	370CRSL	Crystalline Rocks, Undifferentiated
33	370CRSLC	Crystalline Rocks, Carbonate
33	370CRSLN	Crystalline Rocks, Noncarbonate
33	400CRSL	Crystalline Rocks, Undifferentiated
33	400CRSLC	Crystalline Rocks, Carbonate
33	400CRSLN	Crystalline Rocks, Noncarbonate
33	410RYE	Rye Formation, Precambrian
33	BASEMENT	Basement
33	BEDROCK	Bedrock
34	100CNZC	Cenozoic Erathem
34	110QRNR	Quaternary System
34	111ALVM	Holocene Alluvium
34	111HLCN	Holocene Series
34	111HPPM	Undifferentiated Holocene, Pleistocene, Pliocene, and
	Miocene	
34	111SWMP	Swamp Deposits
34	112BRDG	Bridgeton Formation
34	112CPMY	Cape May Formation
34	112DELC	Deltaic Sand Facies
34	112DLTC	Deltaic Sand Facies
34	112ESRNC	Estuarine Clay Facies
34	112ESRNS	Estuarine Sand Facies
34	112GCLK	Glacial Lake Deposits
34	112GKMK	Kame and Kame Terrace Deposits
34	112GLCD	Glacial Delta Deposits
34	112HLBC	Holly Beach Water-Bearing Zone
34	112MORN	Moraine
34	112MRIN	Marine Sand Facies
34	112MRINS	Marine Sand Facies
34	112PKBG	Pensauken-Bridgeton Formations
34	112PLCC	Pleistocene Series-Cohansey Sand
34	112PLSC	Pleistocene Series
34	112PLSCC	Pleistocene Series-Cohansey Sand
34	112PNSK	Pensauken Formation
34	112SFDF	Stratified Drift
34	112TILL	Till
34	120TRTR	Tertiary System
34	121BCHL	Beacon Hill Gravel
34	121CKKD	Cohansey Sand-Kirkwood Formation

34	121CNSY	Cohansey Sand
34	121PCMC	Pliocene-Miocene Series
34	121PLCN	Pliocene Series
34	122KRKD	Kirkwood Formation
34	122KRKDL	Kirkwood Formation, Lower Sand
34	122KRKDU	Kirkwood Formation, Upper Sand
34	122MOCN	Miocene Series
34	123OLGC	Oligocene Series
34	124EOCN	Eocene Series
34	124MNSQ	Manasquan Formation
34	124MQVC	Manasquan-Vincentown Formations
34	124PNPN	Piney Point Formation
34	124SKRV	Shark River Marl
34	125HARR	Hornerstown Sand
34	125HRRS	Hornerstown Sand
34	125PLCN	Paleocene Series
34	125VCHR	Vincetown Formation-Hornerstown Sand
34	125VNCN	Vincentown Formation
34	200MSZC	Mesozoic Erathem
34	210CRCS	Cretaceous System
34	211EGLS	Englishtown Formation
34	211FRNG	Farrington Sand Member of Raritan Formation
34	211MCVL	Merchantville Formation
34	211MGRR	Magothy-Raritan Formations
34	211MGTY	Magothy Formation
34	211MLRL	Mount Laurel Sand
34	211MLRW	Mount Laurel Sand-Wenonah Formation
34	211MRPA	Magothy-Raritan-Potomac Aquifer System, Undifferentiated
34	211MRPAL	Magothy-Raritan-Potomac Aquifer System, Lower Aquifer
34	211MRPAM	Magothy-Raritan-Potomac Aquifer System, Middle Aquifer
34	211MRPAU	Magothy-Raritan-Potomac Aquifer System, Upper Aquifer
34	211MRSL	Marshalltown Formation
34	211NVSX	Navesink Formation
34	211ODBG	Old Bridge Sand Member of Magothy Formation
34	211RDBK	Red Bank Sand
34	211RRTN	Raritan Formation
34	211SRVL	Sayreville Sand Member of Raritan Formation
34	211TNTN	Tinton Sand
34	211WBMV	Woodbury Clay-Merchantville Formation
34	211WDBR	Woodbury Clay
34	211WNNH	Wenonah Formation
34	217POMC	Potomac Group
34	217PTMC	Potomac Group
34	227BNTN	Boonton Formation
34	227BRCK	Brunswick Group
34	227BRCKS	Brunswick Group Sedimentary
34	227BSLT	Basalt
34	227CGLM	Conglomerate
34	227DIBS	Diabase
34	227FLVL	Feltville Formation
34	227HKMN	Hook Mountain Basalt
34	227NWRK	Newark Supergroup
34	227ORGM	Orange Mountain Basalt
34	227PRKS	Preakness Basalt

34	227PSSC	Passaic Formation
34	227TOWC	Towaco Formation
34	230TRSC	Triassic System
34	231CGLMU	Unclassified Conglomerates
34	231HMCK	Hammer Creek Formation
34	231LCKG	Lockatong Formation
34	231LMCG	Limestone Conglomerate
34	231QRCG	Quartzite Formation
34	231SCKN	Stockton Formation
34	300PLZC	Paleozoic Erathem
34	300WICKG	Wissahickon Gneiss
34	300WSCK	Wissahickon Gneiss
34	324KTTNL	Lower Kittatiny Limestone
34	324KTTNM	Middle Kittatiny Limestone
34	340DVNN	Devonian System
34	341SKMK	Skunnemunk Conglomerate
34	344BLVL	Bellvale Sandstone
34	344CRNL	Cornwall Shale
34	344ESPS	Esopus Formation
34	344KNUS	Kanouse Sandstone
34	344MRCL	Marcellus Shale
34	344ONDG	Onondaga Limestone
34	347CMNS	Coeymans Formation
34	347COMS	Coeymans Formation
34	347DEPU	Depue Limestone Member of Coeymans Formation
34	347DNVL	Duttonville Member of Rondout Formation
34	347FBKV	Flatbrookville Member of New Scotland Formation
34	347KKBG	Kalkberg Limestone
34	347MAKZ	Maskenozha Member
34	347MNSK	Minisink Limestone
34	347MPCG	Mashipacong Member of Rondout Formation
34	347MSKZ	Maskenozha Member
34	347NESC	New Scotland Formation
34	347NSCD	New Scotland Formation
34	347ORSK	Oriskany Formation
34	347PREN	Port Ewen Shale
34	347PRVL	Peters Valley Member of Coeymans Formation
34	347RNDT	Rondout Formation
34	347RVEN	Ravena Member of Coeymans Limestone
34	347SILD	Shawnee Island Member of Coeymans Formation
34	347SMVL	Stormville Member of Coeymans Formation
34	347TCKR	Thacker Member of Manlius Limestone
34	347WTPR	Whiteport Dolomite Member of Rondout Formation
34	350GRPD	Green Pond Conglomerate
34	350HGFL	High Falls Formation
34	350SLRN	Silurian System
34	351BDVL	Bossardville Limestone
34	351BODV	Bossardville Limestone
34	351CVBK	Clove Brook Member of Decker Formation
34	351DCKR	Decker Formation
34	351LNGD	Longwood Shale
34	351PXID	Poxono Island Formation
34	351WPKC	Wallpack Center Member of Decker Formation
34	354SNGK	Shawangunk Formation

34	360KTTN	Kittatinny Limestone
34	360ODVC	Ordovician System
34	361BSKL	Bushkill Member of Martinsburg Shale
34	361BUKL	Bushkill Member of Martinsburg Shale
34	361MRBG	Martinsburg Shale
34	361PAGL	Pen Argyl Member of Martinsburg Shale
34	361RMBG	Ramseyburg Member of Martinsburg Shale
34	364JAKB	Jacksonburg Limestone
34	364JKBG	Jacksonburg Limestone
34	367EPLR	Epler Formation
34	367KTTNU	Upper Kittatinny Limestone
34	367RCKB	Rickenbach Dolomite
34	367RIKB	Rickenbach Dolomite
34	370CMBR	Cambrian System
34	371ALNN	Allentown Dolomite
34	374LSVL	Leithsville Formation
34	377HRDS	Hardyston Quartzite
34	400BLMR	Baltimore Gneiss
34	400FRKL	Franklin Limestone
34	400PCMB	Precambrian Erathem
34	BASEMENT	Basement
34	BEDROCK	Bedrock
35	000EXRV	Extrusive Rocks
35	000ICRC	Incarnacion Granite
35	000IRSV	Intrusive Rocks
35	100LFVR	Las Feveas Formation
35	110ALVM	Quaternary Alluvium
35	110AVMB	Alluvium, Bolson Deposits and Other Surface Deposits
35	110BLSN	Bolson Fill
35	110CHCO	Chico Phonolites
35	110CLTN	Clayton Basalts
35	110CNJL	Canjilon Till
35	110CNNS	Canones Andesite
35	110GTUN	Gatuna Formation
35	110JRND	Jornadan Series
35	110LOBT	Lobato Basaltic Lavas
35	110NTGU	Naha and Tsegi alluvium deposits, undifferentiated
35	110OPTOD	Pediment, Terrace, and Other Deposits of Gravel, Sand,
	and Caliche	
35	110PLMS	Palomasan Series
35	110PTOD	Pediment, Terrace, and Other Deposits of Gravel, Sand
	and Caliche	
35	110PTODC	Pediment, Terrace, and Other Deposits of Gravel, Sand
	and Caliche	
35	110RDMN	Red Mountain Dacites
35	110SCLR	Santa Clara Pumice Bed
35	110SLGL	Slagle Trachyte
35	110TRKM	Turkey Mountain Andesite
35	110TURT	Tuerto Gravel of Santa Fe Group
35	110UVRS	University Beds
35	110VLCT	Vallecito Basalt
35	111ALVM	Holocene Alluvium
35	111CPLN	Capulin Basalts
35	111CRMS	Covered/Reclaimed Mine Spoil

35	111CRMSA	Covered/Reclaimed Mine Spoil and Ash
35	111CRZZ	Carrizozo Lava Flow
35	111GMRC	Gamerco Formation
35	111LBKP	Little Black Peak Basalt Flow
35	111MCCR	Mc Cartys Basalt Flow
35	111MCLR	Mescalero Sands
35	111MSOV	Mined and Subsided Overburden
35	111NKBT	Nakaibito Formation
35	111SPOL	Spoil
35	111ZNCN	Zuni Canyon Basalt Flow
35	112ANCH	Ancha Formation, Upper Part of Santa Fe Group
35	112BDLR	Bandelier Rhyolite Tuff of Tewa Group
35	112BKBK	Broken Back Basalt Flow
35	112BLSP	Battleship Rock Flow
35	112BLTR	Blue Water Basalt Flow
35	112BNCB	Banco Bonito Flows
35	112CLVS	Clovis Beds
35	112CRRB	Cerro Rubio Quartz Latite of Tewa Group
35	112CTLD	Cerro Toledo Rhyolite of Tewa Group
35	112CURB	Cuerbio Basalt
35	112ELCJ	El Cajete Flow
35	112GUJE	Guaje Member of Bandelier Tuff of Tewa Group
35	112LGUN	Laguna Basalt Flow
35	112OTOW	Otowi Member of Bandelier Tuff of Tewa Group
35	112PLMS	Palomas Gravel
35	112SNDC	Sand Canyon Formation
35	112SNJN	San Jon Formation
35	112SNTF	Santa Fe Group
35	112SNTFU	Santa Fe Group, Upper Part
35	112SUWN	Suwanee Basalt Flow
35	112TEWA	Tewa Group
35	112TSRG	Tshirege Member of Bandelier Tuff of Tewa Group
35	112VLLS	Valles Rhyolite of Tewa Group
35	112WLND	Wheatland Formation
35	120ABQQ	Albuquerque Marl
35	120AMLI	Amalia Formation
35	120ARBN	Arriban Series
35	120BRLM	Bearwall Mountain Andesite
35	120CBBC	Caballo Blanco Rhyolite Tuff
35	120CGLB	Cieneguilla Limburgite
35	120CGLM	Conglomerate of Tertiary Age
35	120CNJS	Conejos Quartz Latite (Potosi Volcanic Series)
35	120CONY	Cooney Quartz Latite
35	120CRNK	Cranktown Sandstone
35	120CRSN	Carson Conglomerate
35	120CRSNU	Carson Conglomerate, Upper Part
35	120DDGC	Deadwood Gulch Rhyolite Tuff
35	120DEZA	Deza Formation
35	120DGGC	Dog Gulch Formation
35	120DTIL	Datil Formation
35	120DTILB	Datil Formation (Latite Breccias, Flow-Banded Latite, Andesite, Rhyolite)
35	120DTILC	Datil Formation (Clastic Rocks of Volcanic Fragments)

35	120DTILD	Datil Formation (Boulder Beds and Coarse Clastic Rocks,
	Mostly Volcani	
35	120DTILP	Datil Formation (Pumiceous Tuff and Breccia)
35	120DTILW	Datil Formation (Welded and Crystal Rhyolite Tuffs,
	Flows and Breccias	
35	120ELRT	El Rito Formation
35	120ESPS	Espinosa Volcanics
35	120FNNY	Fanney Rhyolite
35	120HSTN	Houston Andesite
35	120LFKN	Lufkin Rhyolite
35	120LOBO	Lobo Formation
35	120LRPK	Latir Peak Latite
35	120LSCC	Last Chance Andesite
35	120LVRC	Love Ranch Formation of Kottlowski and Others
35	120MAYA	Maya Conglomerate
35	120MBPK	Mimbres Peak Formation
35	120MCHO	Macho Pyroxene Andesites
35	120MCRE	Mc Rae Formation
35	120MGLN	Mogollon Andesite
35	120MLCK	Mineral Creek Andesite
35	120MNGS	Mangas Quartzite
35	120MNMN	Monument Andesite
35	120PCFC	Pacific Quartz Latite
35	120PLCK	Pollack Quartz Latite
35	120POTS	Potosi Volcanic Series
35	120PUYE	Puye Conglomerate, Upper Part of Santa Fe Group
35	120RGRD	Rio Grande Gravels
35	120RZBK	Razorback Formation
35	120SBLC	Sierra Blanca Volcanics
35	120SGMP	Sugarlump Tuffs
35	120SLDN	Selden Basalt Tongue
35	120WMVL	Wimsattville Formation
35	120WRCK	Whitewater Creek Rhyolite
35	121BDHC	Bidahochi Formation
35	121BDHCL	Bidahochi Formation, Lower
35	121BDHCM	Bidahochi Formation, Middle
35	121BDHCU	Bidahochi Formation, Upper
35	121BGTB	Bridge Timber Gravel
35	121CHSK	Chuska Sandstone
35	121CRDT	Cordito Member of Los Pinos Formation
35	121CSRS	Cisneros Basalt
35	121DORD	Dorado Basalt
35	121EGLN	Eagle Nest Formation
35	121GILA	Gila Conglomerate (Group)
35	121JRIT	Jarita Basalt of Las Pinas Formation
35	121LSPS	Los Pinos Gravel Member of Hinsdale Formation
35	121MMBR	Mimbres Conglomerate
35	121OGLL	Ogallala Formation
35	121PLCT	Placita Marl
35	121PUYEF	Puye Conglomerate, Fanglomerate Member
35	121SRNG	Sierra Negra Basalt
35	121TCCM	Tschicoma Formation
35	121TOTV	Totavi Lentil of Puye Conglomerate
35	121TSUQ	Tesuque Formation, Undifferentiated Unit

35	122ABQU	Abiquiu Tuff, Lower Part of Santa Fe Group
35	122BLTP	Bell Top Formation
35	122BPLG	Bishops Lodge Member of Tesuque Formation
35	122CHAM	Chama Clays
35	122CMSM	Chamisa Mesa Member of Santa Fe Formation
35	122HLSM	Hells Mesa Member of Datil Formation
35	122KLGN	Kneeling Nun Rhyolite Tuff
35	122LCKB	Lucky Bill Formation
35	122LJPK	La Jara Peak Member of Datil Formation
35	122PCRS	Picuris Tuff
35	122PICR	Picuris Tuff
35	122PPTS	Popotosa Formation
35	122RTTO	Ritito Conglomerate
35	122RUBO	Rubio Peak Formation
35	122SNTFL	Santa Fe Group, Lower Part
35	122SPRS	Spears Member of Datil Formation
35	122TRMN	Thurman Formation
35	122UVAS	Uvas Basalt
35	123BLCB	Blanco Basin Formation
35	123GLST	Galisteo Formation
35	123PMPK	Palm Park Formation
35	123SLDD	Soledad Rhyolite
35	124ALMG	Almagre Beds
35	124ANMS	Animas Formation
35	124BACA	Baca Formation
35	124CBMN	Cub Mountain Formation
35	124CHCO	Chaco Marl
35	124CLRG	Canyon Largo Sandstone
35	124CUEV	Cueva Rhyolite
35	124HUTN	Houten Sandstone
35	124LLVS	Llaves Member of San Jose Formation
35	124LRGO	Largo Facies
35	124ORJN	Orejon Andesite
35	124PNMS	Pinyon Mesa Group
35	124PSNC	Poison Canyon Formation
35	124RGIN	Regina Member of San Jose Formation
35	124SNJS	San Jose Formation
35	124TPCS	Tapicitos Member of San Jose Formation
35	124TRJN	Torrejon Formation
35	124WSTC	Wasatch Formation
35	124YGCN	Yegua Canyon Facies
35	124ZIA	Zia Marl
35	125NCMN	Nacimiento Formation
35	125NCMNS	Nacimiento Formation, Sandy Shale Facies
35	125PURC	Puerco Formation
35	125RTON	Raton Formation
35	200RVLT	Revuelto Shale
35	210CRCS	Cretaceous System
35	210GLNS	Gallinas Shale
35	210MCDK	Mancos Shale, Lower Part, and Dakota Sandstone,
Undivided		
35	210MNCS	Mancos Shale
35	210MORA	Mora Sandstone
35	210PRMD	Pyramid Shale

35	210SNST	Sanastee Sandstone Member of Mancos Shale
35	210TCTO	Tacito Sandstone Lentil of Mancos Shale
35	210TRHM	Tres Hermanos Sandstone Member of Mancos Shale
35	211ACUL	Archuleta Shale
35	211ALSN	Allison Member of Menefee Formation of Mesaverde Group
35	211ARCL	Archuleta Shale
35	211ATRQ	Atarque Member of Mesaverde Formation
35	211BCTD	Beechatuda Tongue of Cliff House Sandstone
35	211BLMN	Bell Mountain Sandstone Member of Miguel Formation
35	211BRLB	Bartlett Barren Member of Crevasse Canyon Formation
35	211CANO	Cano Member of Mesaverde Formation
35	211CHCR	Chacra Sandstone Member of Mesaverde Formation
35	211CLCN	Cholla Canyon Tongue of Cliff House Sandstone
35	211CLFH	Cliff House Sandstone (Includes La Ventana Tongues In Nw Sandoval Co)
35	211CLFHV	Cliff House Sandstone (Includes La Ventana Tongues In Nw Sandoval Co)
35	211CLRDH	Colorado Shale
35	211CLRDN	Colorado Formation, Shale Member
35	211CLRDS	Colorado Formation, Sandstone Member
35	211CLRYC	Cleary Coal Member
35	211CRLI	Carlile Shale
35	211CRVC	Crevasse Canyon Formation of Mesaverde Group
35	211DCRS	D-Cross Tongue of Mancos Shale of Mesaverde Group
35	211DKOT	Dakota Sandstone or Formation
35	211DLCO	Dilco Coal Member of Crevasse Canyon Formation of Mesaverde Group
35	211DLCOC	Dilco Coal Member of Crevasse Canyon Formation of Mesaverde Group
35	211DLTN	Dalton Sandstone Member of Crevasse Canyon Formation of Mesaverde Grp
35	211FRHS	Fort Hays Limestone Member of Niobrara Formation
35	211FRLD	Fruitland Formation
35	211FRMG	Farmington Sandstone Member of Kirtland Shale
35	211FRSN	Fort Stanton Shale
35	211GBSNC	Gibson Coal Member of Crevasse Canyon Formation of Mesaverde Group
35	211GLLG	Gallego Sandstone Member of Gallup Sandstone
35	211GLLP	Gallup Sandstone
35	211GRRG	Greenhorn and Graneros Formations
35	211GRRS	Graneros Shale
35	211HNVR	Hanover Granodiorite Porphyry
35	211HOST	Hosta Tongue of Point Lookout Sandstone of Mesaverde Group
35	211HRSD	Horsehead Tongue of Pike, Mancos Shale
35	211JLPZ	Juan Lopez Sandstone Member of Carlile Shale
35	211JULP	Juana Lopez Sandstone Member of Carlile Shale
35	211KRLD	Kirtland Shale
35	211KRLDL	Kirtland Shale, Lower Shale Member
35	211KRLDU	Kirtland Shale, Upper Shale Member
35	211LAJR	La Jara Shale
35	211LCZP	La Cruz Peak Formation
35	211LVNN	La Ventana Tongue of Cliff House Sandstone
35	211LWIS	Lewis Shale

35	211MCDM	Mcdermott Member of Animas Formation
35	211MENF	Menefee Formation
35	211MGUL	Miguel Formation
35	211MLTT	Mulatto Tongue
35	211MORD	Madrid Formation
35	211MULT	Mulatto Tongue
35	211MVRD	Mesaverde Group
35	211NBRR	Niobrara Formation
35	211NHBK	North Hogback Tongue of Point Lookout Sandstone
35	211OJAM	Ojo Alamo Sandstone
35	211PCCF	Pictured Cliffs Sandstone
35	211PIRR	Pierre Shale
35	211PLCM	Placer Mountain Group
35	211PNLK	Point Lookout Sandstone
35	211PNMS	Punta De La Mesa Sandstone Member of Mesaverde Formation
35	211PNVS	Pina Vititos Sandstone
35	211PRIT	Prieta Sandstone
35	211PRMD	Pyramid Conglomerate
35	211PSCD	Pescado Tongue of Mancos Shale
35	211RLCN	Rail Canyon Sandstone Member of Vermejo Formation
35	211SATN	Satan Tongue of Mancos Shale
35	211SMKH	Smoky Hill Marl Member
35	211SNTR	Santa Rita Granodiorite Porphyry
35	211SOKH	Smoky Hill Marl Member
35	211SRTN	Sarten Sandstone
35	211THTC	Tohachi Formation
35	211TLLS	Twowells Sandstone Lentil of Pike of Dakota Sandstone
35	211UTCN	Ute Canyon Tongue of Cliff House Sandstone
35	211VEJT	Vermejo Formation and Trinidad Sandstone, Undivided
35	211VRDN	Virden Formation
35	211VRMJ	Vermejo Formation and Trinidad Sandstone, Undivided
35	211WMHL	Whim Hill Breccia
35	217BKJG	Broken Jug Limestone of Bisbee Group
35	217CRBT	Corbett Sandstone of Bisbee Group
35	217CRCSL	Lower Cretaceous Rocks, Undivided
35	217HDLG	Hidalgo Volcanics of Bisbee Group
35	217HDLGS	Hidalgo Volcanics, Sedimentary Member, of Bisbee Group
35	217HLFS	Hell To Finish Formation
35	217HRDG	Howells Ridge Formation of Bisbee Group
35	217HRDGL	Howells Ridge Formation, Top Limestone Member
35	217HRDGV	Howells Ridge Formation, Volcanic Member
35	217MOJD	Mojado Formation of Zeller
35	217PJRT	Pajarito Shale Member of Dakota Sandstone
35	217PLPK	Playas Peak Formation
35	217PRGR	Purgatoire Formation
35	217PRTC	Puertocito Formation
35	217RNGB	Ringbone Shale of Bisbee Group
35	217RNGBV	Ringbone Shale, Volcanic Members, of Bisbee Group
35	217ROCKL	Lower Cretaceous Rocks, Undivided
35	217SKKR	Skunk Ranch Conglomerate of Bisbee Group
35	217SKKRV	Skunk Ranch Conglomerate, Volcanic Member
35	217SPRF	Suprareef Limestone Member of U-Bar Formation
35	217UBAR	U-Bar Formation
35	218BISB	Bisbee Group

35	218BRTT	Beartooth Quartzite
35	218DKCK	Duck Creek Formation
35	218KIAW	Kiawa Mountain Formation
35	218KMCH	Kiamichi Formation
35	218MSRC	Mesa Rica Sandstone
35	218TCMC	Tucumcari Shale
35	219GRRT	Garrett Conglomerate
35	220AMRL	Amarillo Sandstone
35	220ENRD	Entrada Sandstone
35	220GLNC	Glen Canyon Group
35	220JRSC	Jurassic
35	220JURC	Jurassic
35	220NAVJ	Navajo Sandstone
35	220NVJO	Navajo Sandstone
35	221AGZC	Agua Zarca Sandstone Member of Sierra Nacimiento
35	221BLFF	Bluff Sandstone of Morrison Formation
35	221BLRC	Bell Ranch Formation of San Rafael Group
35	221BLUF	Bluff Sandstone of Morrison Formation
35	221BRSB	Brushy Basin Shale Member of Morrison Formation
35	221CHQQ	Chaquaqua Shale
35	221CHVZ	Chavez Member of Morrison Formation
35	221COSP	Cow Springs Sandstone of Morrison Formation
35	221CRML	Carmel Formation of San Rafael Group
35	221CSPG	Cow Springs Sandstone of Morrison Formation
35	221ENRD	Entrada Sandstone, Upper Sandy Member, of San Rafael
Group		
35	221ERADU	Entrada Sandstone of San Rafael Group, Upper
35	221MRSN	Morrison Formation
35	221PRTT	Prewitt Sandstone Member of Morrison Formation
35	221RCPR	Recapture Shale Member of Morrison Formation
35	221SLWS	Salt Wash Sandstone Member of Morrison Formation
35	221SMVL	Summerville Formation of San Rafael Group
35	221SRFL	San Rafael Group
35	221SRFLL	San Rafael Group, Lower Part
35	221TDLT	Todilto Limestone of Morrison Formation of San Rafael
Group		
35	221THRU	Thoreau Formation
35	221WHIT	White Sandstone Member of Morrison Formation
35	221WNKH	Wanakah Formation
35	221WSRC	Westwater Canyon Sandstone Member of Morrison Formation
35	221ZUNI	Zuni Shale
35	221ZUNIS	Zuni Sandstone
35	224OCTE	Ocate Sandstone
35	224TDLT	Todilto Limestone Member of Wanakah Formation
35	224TRVR	Travester Shale
35	230BLDH	Baldy Hill Formation
35	230CPSP	Camp Springs Conglomerate of Dockum Group
35	230ENDE	Endee Shale
35	230HSKN	Hoskinnini Member of Moenkopi Formation
35	230MNKP	Moenkopi Formation
35	230NRNJ	Naranjo Formation
35	231CHNL	Chinle Formation
35	231CORR	Correo Sandstone Member of Chinle Formation
35	231DCKM	Dockum Group

35	231KYNT	Kayenta Formation
35	231LKCK	Lukachukai Member of Wingate Sandstone
35	231ORCK	Owl Rock Member of Chinle Formation
35	231PFDF	Petrified Forest Member, Upper Part, of Chinle Formation
35	231PFDFU	Petrified Forest Member, Upper, of Chinle Formation
35	231POLO	Poleo Sandstone Lentil of Chinle Formation
35	231RCKP	Rock Point Member of Wingate Sandstone
35	231RDND	Redonda Formation
35	231SLNC	Sloan Canyon Formation of Dockum Group
35	231SLRL	Salitral Shale Tongue of Chinle Formation
35	231SNRS	Santa Rosa Sandstone
35	231SNRT	Senorito Sandstone Lentil of Chinle Formation
35	231SNSL	Sonsela Sandstone Bed of Petrified Forest Member of
		Chinle Formation
35	231SPPN	Sheep Pen Sandstone
35	231SRMP	Shinarump Member of Chinle Formation
35	231TCVS	Tecovas Formation of Dockum Group
35	231WNGT	Wingate Sandstone
35	310AQTR	Aqua Torres Formation
35	310BLTR	Bluewater Formation
35	310BRLL	Bernalillo Shale
35	310CDRM	Cedar Mesa Sandstone Member of Cutler Formation
35	310CHRC	Chiricahua Limestone, Upper Part
35	310CHVS	Chaves Shale
35	310CJGL	Ceja Glorieta Sandstone
35	310CTLR	Cutler Formation
35	310DCLL	De Chelly Sandstone Member of Cutler Formation
35	310EARP	Earp Formation
35	310EDDY	Eddy Sandstone
35	310FRNR	Forty-Niner Member of Rustler Formation
35	310FRRO	Fierro Limestone
35	310GLOR	Glorieta Sandstone Member of San Andres Formation of
		Manzano Group
35	310GLRT	Glorieta Sandstone Member of San Andres Formation of
		Manzano Group
35	310GYM	Gym Limestone
35	310HALG	Halgaito Member of Cutler Formation
35	310HKTL	Honaker Trail Formation of Hermosa Group
35	310HLGT	Halgaito Member of Cutler Formation
35	310HOND	Hondo Sandstone Member of San Andres Limestone
35	310HRMT	Hermit Shale
35	310JCRL	Jicarilla Monzonite
35	310KIBB	Kaibab Limestone
35	310LSVL	Los Vallos Member of Yeso Formation
35	310MBLC	Meseta Blanca Sandstone Member of Yeso Formation
35	310MGNT	Magenta Member of Rustler Formation
35	310MNZN	Manzano Group
35	310NOGL	Nogal Formation
35	310OGRK	Organ Rock Member of Cutler Formation
35	310PCOS	Pecos Formation
35	310PCSC	Pecos Canyon Sandstone
35	310RICO	Rico Formation
35	310RNVL	Rainvalley Formation of Naco Group
35	310SGRC	Sangre De Cristo Formation

35	310SUPIE	Supai Formation, Evaporite Member
35	310SUPIL	Supai Formation, Lower
35	310SYDR	San Ysidro Member of Yeso Formation
35	310TRNC	Torrance Shale
35	310TRRS	Torres Member of Yeso Formation
35	310WTRM	White Rim Sandstone Member of Cutler Formation
35	310YESO	Yeso Formation, Manzano Group
35	310YESOG	Yeso Formation, Manzano Group
35	312CLBR	Culebra Dolomite Member of Rustler Formation
35	312CSTL	Castile Formation
35	312DYLK	Dewey Lake Redbeds
35	312OCHO	Ochoan Series
35	312RSLR	Rustler Formation
35	312RSLRL	Rustler Formation, Unnamed Lower Member
35	312SLDO	Salado Formation
35	312TMRK	Tamarisk Member of Rustler Formation
35	313ARTS	Artesia Group
35	313AZOT	Azotea Tongue of Seven Rivers Formation
35	313BLCN	Bell Canyon Formation
35	313BRNL	Bernal Formation of Artesia Group
35	313BRSC	Brushy Canyon Formation of Delaware Mountain Group
35	313BRUC	Brushy Canyon Formation of Delaware Mountain Group
35	313BRWN	Brown Limestone Member of U-Bar Formation
35	313CABD	Carlsbad Group
35	313CKBF	Chalk Bluff Formation
35	313CLBD	Carlsbad Limestone
35	313CLBDI	Carlsbad Limestone
35	313CNCH	Concha Limestone of Naco Group
35	313CPTN	Capitan Limestone
35	313CRCN	Cherry Canyon Formation
35	313CTFF	Cutoff Shaly Member of Bone Spring Limestone
35	313DGCN	Dog Canyon Limestone
35	313DLRM	Delaware Mountain Group
35	313GDLP	Guadalupe Series
35	313GOSP	Goat Seep Dolomite
35	313GRBG	Grayburg Formation of Artesia Group
35	313GTSP	Goat Seep Dolomite
35	313LMSN	Limestone Aquifer
35	313LVNG	Lovington Sandstone Member of San Andres Formation
35	313OCTL	Ocotillo Silt Member
35	313QUEN	Queen Formation
35	313SADG	San Andres Limestone and Glorieta Sandstone
35	313SADR	San Andres Limestone
35	313SADRL	San Andres Limestone, Lower Cherty Member
35	313SADRU	San Andres Limestone, Upper Clastic Member
35	313SADY	San Andres Limestone and Yeso Formation, Undivided
35	313STCK	Shattuck Member of Queen Formation
35	313SVRV	Seven Rivers Formation
35	313TNSL	Tansill Formation
35	313TRTS	Three Twins Member of Chalk Bluff Formation
35	313YATS	Yates Formation, Guadalupe Group
35	313YTES	Yates Formation, Guadalupe Group
35	317ABYS	Abo and Yeso, Undifferentiated
35	317OTRO	Otero Formation

35	318ABO L	Abo Sandstone (Lower Tongue)
35	318ABO U	Abo Sandstone (Upper Tongue)
35	318BSPG	Bone Spring Limestone
35	318CANS	Canas Gypsum Member of Yeso Formation
35	318CCNN	Cocinino Sandstone
35	318CMRN	Cimarron Formation
35	318CPDR	Chupadera Formation
35	318EPTP	Epitaph Dolomite of Naco Group
35	318JOYT	Joyita Sandstone Member of Yeso Formation
35	318KIBB	Kaibab Formation
35	318SCRR	Scherrer Formation
35	318VCPK	Victorio Peak Limestone
35	318YESO	Yeso Formation
35	319BRSM	Bursum Formation and Equivalent Rocks
35	319COLN	Colina Limestone
35	319CTLRL	Lower Cutler Group
35	319ELPC	Elephant Canyon Formation
35	319HUCO	Hueco Limestone
35	319PNDJ	Pendejo Tongue of Hueco Formation
35	319PUBL	Pueblo Quartzite
35	319PUEB	Pueblo Quartzite
35	319SNAN	Santa Ana Member of Santa Fe Formation
35	320ALMT	Alamito Shale
35	320ANTN	Antonito Limestone
35	320ARSD	Atrasado Member of Madera Formation
35	320BARB	Bar B Formation
35	320BLNG	Bullington Member of Magdalena Formation
35	320CRTD	Cortado Formation
35	320DON	Don Limestone
35	320GRMS	Gray Mesa Member of Madera Formation
35	320HMBD	Humboldt Formation
35	320HRQLL	Horquilla Limestone, Lower Part
35	320HRQLU	Horquilla Limestone, Upper Part
35	320HSPG	Hot Springs Formation
35	320ICRC	Incarnacion Fire Clay
35	320MNHM	Mountain Home Shale
35	320MNTS	Montosa Limestone
35	320MOLS	Molas Formation
35	320MOSC	Mosca Limestone
35	320NACO	Naco Group
35	320NAKY	Nakaye Formation
35	320OSCR	Oscuro Limestone
35	320OSLD	Oswaldo Formation
35	320RDHS	Red House Formation
35	320RDTK	Red Tanks Member of Madera Formation
35	320SNDI	Sandia Formation
35	320SYRN	Syrena Formation
35	320TLLR	Tellera Limestone
35	320WRMG	Warmington Limestone Member of Elephant Butte Formation
35	321SGDC	Sangre De Cristo Formation
35	322BRTN	Bruton Formation
35	322DLCR	Del Cuerto Formation
35	322FRSL	Fresnal Group
35	322HLDR	Holder Formation of Magdalena Group

35	322MOYA	Moya Formation
35	322PRSP	Panther Seep Formation
35	323ADOB	Adobe Formation
35	323BEMN	Beeman Formation of Magdalena Group
35	323BRRG	Burrego Formation
35	323CONE	Coane Formation
35	323CSPG	Council Spring Limestone
35	323HBRG	Hansonburg Group
35	323STRY	Story Formation
35	323VRDS	Veredas Group
35	324HRMS	Hermosa Formation
35	325ARMD	Armendaris Group
35	325BGSF	Bug Scuffle Limestone Member of Gobbler Formation
35	325BLDR	Bolander Group
35	325CNGL	Cieneguilla Formation
35	325COYT	Coyote Sandstone Member of Madera Limestone
35	325GBLR	Gobbler Formation of Magdalena Group
35	325GRCI	Garcia Formation
35	325MDER	Madera Limestone
35	325MDERL	Madera Limestone, Lower Gray Limestone Member
35	325MDERU	Madera Limestone, Upper Arkosic Limestone Member
35	325WSKC	Whiskey Canyon Limestone
35	326APDC	Apodaca Formation
35	326ARRY	Arrey Formation
35	326CCNG	Cuchillo Negro Formation
35	326FCBL	Fra Cristobal Formation
35	326GRNC	Green Canyon Group
35	326MGDL	Magdalena Group
35	326MSPG	Mud Springs Group
35	327LGSP	Log Springs Formation
35	330CLOS	Caloso Formation
35	330CLRD	Chloride Formation
35	330HLMS	Helms Formation
35	330PRCH	Percha Shale
35	330SIRR	Sierra Limestone
35	330TRRR	Tererro Formation
35	331LDVL	Leadville Limestone
35	332PRDS	Paradise Formation
35	333ARPC	Arroyo Penasco Formation
35	333LCRC	Las Cruces Formation
35	333RNCR	Rancheria Formation
35	337BELL	Bella Shale
35	337CWLS	Cowles Member of Terrero Formation
35	337HNVR	Hanover Limestone
35	337MCHO	Macho Member of Terrero Formation
35	337MNLS	Manuelitas Member of Terrero Formation
35	337RDYP	Ready Pay Member of Percha Shale
35	337SLVR	Silver Shale
35	338ADRC	Andrecito Member of Lake Valley Limestone
35	338AMGD	Alamgordo Member of Lake Valley Limestone
35	338ARCN	Arcente Member of Lake Valley Limestone
35	338DNAN	Dona Ana Member of Lake Valley Limestone
35	338GRND	Grande Limestone
35	338KLLY	Kelley Limestone

35	338LKVL	Lake Valley Limestone
35	338NUNN	Nunn Member of Lake Valley Limestone
35	338TBLC	Tierra Blanca Member of Lake Valley Formation
35	339CBLR	Caballero Formation
35	339ECBR	Escabroso Limestone
35	340EPRS	Espiritu Santo Formation
35	341BOX	Box Member of Percha Shale Formation
35	341BRND	Berenda Limestone
35	341CNDR	Contadero Formation
35	341ELBR	Elbert Formation
35	341SLGP	Sly Gap Formation
35	344BSPG	Bear Springs Basalt
35	344ONTE	Ocate Formation
35	344SNTR	Santa Rita Limestone
35	350CBOL	Cibola Limestone
35	350NAID	Naiad Limestone
35	354FSLM	Fusselman Dolomite
35	360ARMD	Armendaris Limestone
35	360CRBL	Cristobal Limestone
35	360FRDS	Froncosa Limestone
35	361ALMN	Aleman Formation
35	361CBLC	Cable Canyon Sandstone
35	361CTTR	Cutter Formation of Montoya Dolomite
35	361JRND	Jornada Limestone
35	361MNTY	Montoya Dolomite Group
35	361PRVL	Par Value Member of Montoya Dolomite
35	361RVEN	Raven Member of Montoya Dolomite
35	361SCDV	Second Value Member of Montoya Dolomite
35	361UPHM	Upham Dolomite
35	361VLMN	Valmont Dolomite
35	367BTCV	Bat Cave Limestone
35	367ELPA	El Paso Limestone or Group
35	367ELPS	El Paso Limestone or Group
35	367SRRT	Sierrite Limestone
35	370BURR	Burro Quartzite
35	370DRGN	Dragoonan Series
35	370HKNS	Hawkins Limestone
35	371BLSS	Bliss Sandstone
35	371CRSC	Carrasco Limestone
35	371SNDN	Shandon Quartzite
35	372IGNC	Ignacio Quartzite
35	400AGCL	Agua Caliente Gabbro
35	400ANTN	Antonio Slate
35	400BDTO	Badito Quartzite Member of Hopewell Series
35	400BGRK	Big Rock Conglomerate of Kiawa Mountain Formation
35	400BRDM	Burned Mountain Metarhyolite
35	400BSPG	Blue Springs Muscovite Schist
35	400CBRS	Cabresto Metaquartzite
35	400CBRSQ	Cabresto Quartzite
35	400CSTL	Costilla Granite
35	400CVGC	Cleveland Gulch Quartzite Member of Hopewell Series
35	400DXON	Dixon Granite
35	400EMBD	Embudo Granite
35	400GRNN	Garnuan Series

35	400GRPC	Graphic Lavas
35	400HOND	Hondo Slate
35	400HPLL	Hopewell Series
35	400ICRC	Incarnacion Granite
35	400JWBN	Jawbone Conglomerate of Kiawa Mountain Formation
35	400LCRC	Lacorocah Meta-Andesite Tuff Member of Greenstone Complex
35	400MPPN	Moppin Metavolcanic Series
35	400MQNT	Maquinita Granodiorite
35	400NNOS	Ninos Schist
35	400ORTG	Ortega Quartzite
35	400PCMB	Precambrian Erathem
35	400PCRS	Picuris Basalt
35	400PETC	Petaca Schist
35	400PILR	Pilar Phyllite Member of Ortega Formation
35	400PNSC	Penasco Quartzite
35	400PRST	Priest Granite
35	400ROCD	Rociada Limestone
35	400SAIS	Sais Quartzite
35	400SDVL	Sandoval Granite
35	400SERN	Serna Schist
35	400SLTR	Solitario Slate
35	400SPLL	Sapello Quartzite
35	400SVLT	Sevilleta Rhyolite
35	400TJRS	Tijeras Quartzite
35	400TRCS	Truchas Slate
35	400TUSS	Tusas Granite
35	400VDTO	Vadito Formation
35	400VLCS	Vallecitos Rhyolite
35	400WRDG	White Ridge Quartzite
35	400YSDR	Ysidro Shale
35	BASEMENT	Basement
35	BEDROCK	Bedrock
36	100CNZC	Cenozoic Erathem
36	110QRNR	Quaternary System
36	111AFCF	Artificial Fill
36	111ALVM	Holocene Alluvium
36	111BBTM	Bay-Bottom Deposits
36	111BECH	Beach Deposits
36	111DUNE	Dune (Aeolian) Deposits
36	111DUNED	Dune Deposits
36	111FILL	Fill
36	111HLCN	Holocene Series
36	111LAKE	Lake Deposits
36	111SLMR	Salt-Marsh Deposits
36	111TRRC	Terrace Deposits
36	11220CL	20-foot Clay
36	112GLCD	Glacial Delta Deposits
36	112GLCLU	Glacial Aquifer, Upper
36	112GRDR	Gardiners Clay
36	112HBHD	Harbor Hill Drift
36	112HBHO	Harbor Hill Outwash
36	112HBHT	Harbor Hill Till
36	112HHGM	Harbor Hill Ground Moraine

36	112HHTM	Harbor Hill Terminal Moraine
36	112ICCC	Ice-Contact Deposits, Pleistocene
36	112ICNC	Ice-Contact Deposits
36	112JMCO	Jameco Aquifer
36	112KMTC	Kame Terrace Deposits
36	112LAKE	Lake Deposits
36	112NTSR	North Shore Aquifer
36	112NTSRC	North Confining Unit
36	112OTSH	Outwash
36	112PGFG	Port Washington Confining Unit
36	112PGQF	Port Washington Aquifer
36	112PLSC	Pleistocene Series
36	112RKGM	Ronkonkoma Ground Moraine
36	112RKKD	Ronkonkoma Drift
36	112RKKO	Ronkonkoma Outwash
36	112RKKT	Ronkonkoma Till
36	112RKTM	Ronkonkoma Terminal Moraine
36	112SAND	Sand
36	112SDGV	Sand and Gravel
36	112SMTN	Smithtown Clay
36	112TILL	Till
36	121MNNT	Mannetto Gravel
36	200MSZC	Mesozoic Erathem
36	210CRCS	Cretaceous System
36	211CRCSU	Upper Cretaceous Series
36	211LLYD	Lloyd Aquifer
36	211MAGT	Magothy Aquifer
36	211MGTY	Magothy Aquifer
36	211MMGD	Monmouth Greensand
36	211MNMG	Matawan Group-Magothy Formation
36	211MNMT	Monmouth Group
36	211MONM	Monmouth Group
36	211MTWN	Matawan Formation
36	211RCNF	Raritan Confining Unit
36	211RRTN	Raritan Formation
36	230TRSC	Triassic System
36	231BRCK	Brunswick Formation
36	231NWRK	Newark Group
36	231PLSD	Palisade Diabase
36	231STCN	Stockton Formation
36	231TRSCU	Upper Triassic Series
36	300CLSC	Clastic Rocks
36	300PLZC	Paleozoic Erathem
36	320PSLV	Pennsylvanian System
36	324PSVL	Pottsville Formation
36	330MSSP	Mississippian System
36	337POCN	Pocono Group
36	337POCO	Pocono Group
36	340DVNN	Devonian System
36	341CAND	Canadaway Group
36	341CNDY	Canadaway Group
36	341CNNG	Conewango Group
36	341CNNT	Conneaut Group
36	341CONT	Conneaut Group

36	341DVNNU	Devonian, Upper
36	341GENS	Genesee Formation
36	341JVWF	Java-West Falls Formation
36	341SONY	Sonyea Formation
36	344DVNNM	Devonian, Middle
36	344ESPS	Esopus Formation
36	344HMLN	Hamilton Group
36	344ONDG	Onondaga Limestone
36	344TLLY	Tully Limestone
36	347DVNNL	Devonian, Lower
36	347HDBG	Helderberg Group
36	347ORSK	Oriskany Formation
36	350GRPD	Green Pond Conglomerate
36	350SLRN	Silurian System
36	351ACBB	Akron-Coblesville-Bertie Formations, Undifferentiated
36	351AKRN	Akron Dolomite
36	351BNTR	Binnewater Sandstone
36	351BRTI	Bertie Limestone
36	351CBLK	Cobleskill Limestone
36	351CMLS	Camillus Shale
36	351ERMS	Eromosa Dolomite of Lockport Group
36	351GILD	Goat Island Dolomite of Lockport Group
36	351GLPH	Guelph Dolomite of Lockport Group
36	351LCKP	Lockport Dolomite
36	351LNGD	Longwood Shale
36	351SALN	Salina Group
36	351SLIN	Salina Group
36	351SLRNU	Silurian, Upper
36	351SRCS	Syracuse Salt
36	351VRNN	Vernon Shale
36	354CLIN	Clinton Group
36	354CLNN	Clinton Group
36	354SLRNM	Silurian, Middle
36	354SNGK	Shawangunk Formation
36	355LCKP	Lockport Dolomite
36	357ALBN	Albion Group
36	357CLIN	Clinton Group
36	357DECW	Decew Dolomite of Clinton Group
36	357GAPR	Gasport Dolomite of Lockport Group
36	357GRMB	Grimsby Formation of Medina Group
36	357IRDQ	Irondequoit Limestone of Clinton Group
36	357MDIN	Medina Group
36	357NEHG	Neahga Shale of Clinton Group
36	357RNLS	Reynales Limestone of Clinton Group
36	357ROCR	Rochester Shale of Clinton Group
36	357SLRNL	Silurian, Lower
36	357TRLD	Thorold Sandstone of Medina Group
36	357WRLP	Whirlpool Sandstone of Medina Group
36	360ODVC	Ordovician System
36	361LRRN	Lorraine Shale
36	361ODVCU	Ordovician, Upper
36	361OSWG	Oswego Sandstone
36	361QNSN	Queenston Shale
36	361UTIC	Utica Shale

36	364BRKR	Berkshire Schist
36	364CHZY	Chazy Group
36	364CNJR	Canajoharie Shale
36	364NMKL	Normanskill Formation
36	364ODVCM	Ordovician, Middle
36	364SKHL	Snake Hill Formation
36	364TBRV	Trenton-Black River Group
36	364TREN	Trenton Group
36	364TRNN	Trenton Group
36	364WLMC	Walloomsac Slate
36	367BKMN	Beekmantown Group
36	367ODVCL	Ordovician, Lower
36	367PLTN	Poultney Slate
36	367TBHL	Tribes Hill Limestone
36	370CMBR	Cambrian System
36	371CMBRM	Middle Cambrian Series
36	371CMBRU	Cambrian, Upper
36	371LLFL	Little Falls Dolomite
36	371PSDM	Potsdam Sandstone
36	371TCSQ	Taconic Sequence
36	371THRS	Theresa Dolomite
36	374CMBRM	Cambrian, Middle
36	374SKBG	Stockbridge Group
36	377BULL	Bull Slate
36	377CMBRL	Lower Cambrian Series
36	377DLTN	Dalton Formation
36	377EZVB	Elizaville and Berkshire Formations
36	377NSSU	Nassau Formation
36	377PGQY	Poughquay Quartzite
36	377SCCK	Schodack Formation
36	377SSNG	Stissing Dolomite
36	400BCPX	Basement Complex
36	400PCMB	Precambrian Erathem
36	BASEMENT	Basement
36	BEDROCK	Bedrock
37	000SPRL	Saprolite
37	100BDRK	Bedrock Undifferentiated
37	100CZMZ	Cenozoic-Mesozoic Erathems
37	100RGLT	Regolith
37	100TRNS	Transition Zone
37	110ALVM	Quaternary Alluvium
37	110QPLC	Post Miocene (Quaternary + Pliocene) Rocks
37	110QRNR	Quaternary System
37	110SPRL	Saprolite
37	111FVDP	Fluvial Deposits
37	111MRIN	Marine Deposits
37	111SRFD	Stratified Deposits, Undifferentiated
37	112FVDP	Fluvial Deposits
37	112MRIN	Marine Deposits
37	112SRFD	Stratified Deposits, Undifferentiated
37	120TRTR	Tertiary Upper Aq Unit (Yorktown & Pungo River Fms)
37	120TRTRL	Tertiary Lower Aq Unit (Castle Hayne Limestone & beaufort Fms)
37	120TRTRU	Tertiary Upper Aq Unit (Yorktown & Pungo River Fms)

37	122MCEC	Miocene-Eocene Series
37	122MCEP	Miocene-Eocene-Paleocene Series
37	122MOCN	Miocene Series
37	122PGRV	Pungo River Formation
37	122YRKN	Yorktown Formation
37	122YRKNQ	Yorktown Aquifer
37	122YRKNT	Yorktown Aquitard
37	123OLGC	Oligocene Series
37	124CSLH	Castle Hayne Limestone
37	124CSLHL	Lower Castle Hayne Aquifer
37	124CSLHU	Upper Castle Hayne Aquifer
37	124ECPC	Eocene-Paleocene Series
37	124EOCN	Eocene Series
37	125BFRT	Beaufort Formation
37	125BFRTQ	Beaufort Aquifer
37	125BFRTT	Beaufort Aquitard
37	125PLCN	Paleocene Series
37	200MSZC	Mesozoic Erathem
37	210CRTSL	Cretaceous Lower Aq Unit (Lower Part Cape Fear Fm Sediments)
37	210CRTSM	Cretaceous Middle Aq Unit (Black Creek & Cape Fear Fms)
37	210CRTSU	Cretaceous Upper Aq Unit (Mostly Pee Dee Formation)
37	211BAKC	Black Creek Aquifer
37	211BAKCL	Black Creek Aquifer, Lower
37	211BAKCM	Black Creek Aquifer, Middle
37	211BAKCU	Black Creek Aquifer, Upper
37	211BKCK	Black Creek Aquifer
37	211BKCKL	Black Creek Aquifer, Lower
37	211BKCKM	Black Creek Aquifer, Middle
37	211BKCKU	Black Creek Aquifer, Upper
37	211CPFRL	Lower Cape Fear Aquifer
37	211CPFRU	Upper Cape Fear Aquifer
37	211CRAQU	Upper Cretaceous Aquifer System
37	211CRCSU	Upper Cretaceous Series
37	211PEED	Pee Dee Formation
37	211TSCL	Tuscaloosa Formation
37	217SDMS	Lower Cretaceous Sediments Undifferentiated
37	220MIVI	Mafic Intrusive Igneous Rock
37	230SDMR	Triassic Sedimentary Rocks
37	300GRNT	Granite
37	300IMMG	Intermediate Metagneous Rock
37	300MCGS	Mica Gneiss
37	300MFMG	Mafic Metagneous Rock
37	300MGNS	Metagneous Rocks
37	300MMPC	Metamorphic Rocks
37	300PZPB	Paleozoic-Precambrian Erathems
37	300SCST	Schist
37	300SLTE	Slate
37	310CPBM	Coastal Plain Basement
37	310FCMG	Felsic Metagneous Rock
37	310FIVI	Felsic Intrusive Igneous Rock
37	330MFCG	Mafic Gneiss
37	360IIVI	Intermediate Intrusive Igneous Rock
37	370ARGL	Argillite

37	370EPMV	Epiclastic Metavolcanic Rock
37	370FCMV	Felsic Metavolcanic Rock
37	370FLCG	Felsic Gneiss
37	370IMMV	Intermediate Metavolcanic Rock
37	370MFMV	Mafic Metavolcanic Rock
37	370MVCC	Metavolcanic Rock Undifferentiated
37	370PLLT	Phyllite
37	370QRTZ	Quartzite
37	370SCST	Schist
37	400SCST	Schist
37	410MRBL	Marble
37	410SLTE	Slate
37	BASEMENT	Basement
37	BEDROCK	Bedrock
38	000UMTL	unknown material
38	100CNZC	Cenozoic Erathem
38	110BNPR	Bennie Peer Aquifer
38	110LLMR	Little Missouri Aquifer
38	110QRNR	Quaternary System
38	110YLMR	Yellowstone-Missouri Aquifer
38	111ALVM	Holocene Alluvium
38	111HLCN	Holocene Series
38	112ADRN	Adrian Aquifer
38	112ALCK	Antler Creek Aquifer
38	112APCK	Antelope Creek Aquifer
38	112APCKL	Apple Creek Aquifer, Lower
38	112APCKU	Apple Creek Aquifer, Upper
38	112BANL	Bantel Aquifer
38	112BCK	Bald Hill Creek Aquifer
38	112BDCK	Braddock Aquifer
38	112BDVL	Buried Valley Deposits
38	112BECH	Beach Deposits
38	112BFCK	Buffalo Creek Aquifer
38	112BGCL	Big Coulee Aquifer
38	112BGFV	Buried Glaciofluvial Deposits
38	112BLCK	Brule Creek
38	112BLMN	Belmont Aquifer
38	112BMCK	Bismarck Aquifer
38	112BRCK	Burnt Creek Aquifer
38	112BRDO	Buried Outwash Deposits
38	112BRGD	Brightwood Aquifer
38	112BRLG	Burlington Aquifer
38	112BRMP	Brampton Aquifer, Pleistocene
38	112BUTT	Butte Aquifer
38	112BVCK	Beaver Creek Aquifer
38	112BVLK	Beaver Lake Aquifer, Pleistocene
38	112CBKC	Cutbank Creek Aquifer
38	112CECK	Cherry Creek Aquifer
38	112CLED	Central Eddy Aquifer
38	112CLFX	Colfax Aquifer
38	112CLMB	Columbus Aquifer
38	112COMB	Columbus Aquifer
38	112CRCK	Cherry Creek Aquifer
38	112CRLK	Cherry Lake Aquifer

38	112CRNB	Charbonneau Aquifer
38	112CRNG	Carrington Aquifer
38	112CRSB	Crosby Aquifer
38	112CRTN	Courtney Aquifer
38	112CRUS	Crevasse Deposits
38	112CTHY	Cathay Aquifer
38	112CTTL	Cat Tail Aquifer
38	112DCKY	Dickey Aquifer
38	112DELT	Delta Deposits
38	112DGLS	Douglas Aquifer
38	112DNBH	Denbigh Aquifer
38	112DRLK	Deer Lake Aquifer
38	112DUNE	Dune Deposits
38	112DUNED	Dune Deposits
38	112DYLK	Dry Lake Aquifer - Pleistocene
38	112ECLK	Eric Lake Aquifer
38	112EDBG	Edinburg Aquifer
38	112EDGL	Edgeley Aquifer
38	112EDRL	Enderlin Aquifer
38	112EGLV	Englevale Aquifer
38	112ELDL	Ellendale Aquifer
38	112ELKV	Elk Valley Aquifer
38	112ELLT	Elliot Aquifer, Pleistocene
38	112EMCK	Elm Creek Aquifer
38	112EMRD	Emerado Aquifer
38	112ESKR	Esker Deposits
38	112ESKRD	Esker Deposits
38	112ESMD	Esmond Aquifer
38	112ESMN	Eastman Aquifer
38	112FDVL	Fordville Aquifer
38	112FRGO	Fargo Aquifer
38	112FRMD	Fort Mandan Aquifer
38	112FRMN	Fairmount Aquifer
38	112FRRV	Forest River Aquifer
38	112GBSG	Glacial Buried Sand and/or Gravel
38	112GCDF	Glacial Drift, Undifferentiated - Pleistocene
38	112GDFK	Grand Forks Aquifer
38	112GECC	Glenco Channel Aquifer
38	112GLBG	Galesburg Aquifer
38	112GLCC	Glenco Channel Aquifer
38	112GLCL	Glacial Deposits, Undifferentiated - Pleistocene
38	112GLCU	Glacial Deposits, Undifferentiated
38	112GLNB	Glenburn Aquifer, Pleistocene
38	112GLNV	Glenview Aquifer
38	112GLON	Goldwin Aquifer
38	112GLPH	Guelph Aquifer
38	112GMCK	Goodman Creek Aquifer
38	112GRNR	Grenora Aquifer
38	112GRSN	Garrison Aquifer
38	112GSSG	Glacial Surficial Sand and/or Gravel
38	112GWNR	Gwinner Aquifer, Pleistocene
38	112HAMR	Hamar Aquifer
38	112HBRG	Hillsburg Aquifer System, Pleistocene
38	112HDLK	Hiddenwood Lake Aquifer

38	112HFLD	Hofflund Aquifer
38	112HLBR	Hillsboro Aquifer
38	112HMLN	Hamilton Aquifer
38	112HNKS	Hankinson Aquifer
38	112HOMR	Homer Aquifer
38	112HRVL	Horseshoe Valley Aquifer
38	112HSNB	Horse Nose Butte Aquifer
38	112HTRV	Heart River Aquifer
38	112ICCC	Ice-Contact Deposits, Pleistocene
38	112ICDC	Icelandic Aquifer
38	112IKSR	Inkster Aquifer
38	112JMRV	James River Aquifer
38	112JMSN	Jamestown Aquifer
38	112JNLK	Juanita Lake Aquifer
38	112JSLK	Johnson Lake Aquifer
38	112KAME	Kame Deposits
38	112KAMED	Kame Deposits
38	112KDRC	Kidder County Aquifer
38	112KFRV	Knife River Aquifer
38	112KLDR	Killdeer Aquifer
38	112KLGR	Kilgore Aquifer
38	112KLRH	Karlsruhe Aquifer
38	112KMTC	Kame Terrace Deposits
38	112KNMR	Kenmare Aquifer
38	112LCSR	Lacustrine Deposits
38	112LEDS	Leeds Aquifer
38	112LGLK	Long Lake Aquifer
38	112LGNC	Lignite City Aquifer
38	112LKFB	Little Knife River Valley Aquifer
38	112LKNT	Lake Nettie Aquifer System
38	112LKNTL	Lake Nettie Aquifer System, Lower
38	112LKNTU	Lake Nettie Aquifer System, Upper
38	112LKSO	Lake Souris Aquifer
38	112LLMD	Little Muddy Aquifer
38	112LMUR	Lamoure Aquifer
38	112LRSR	Lower Souris Aquifer
38	112LSLK	Lost Lake Aquifer
38	112LTHR	Little Heart Aquifer
38	112MCKZ	Mc Kenzie Aquifer
38	112MCNS	Mcintosh Aquifer - Pleistocene
38	112MCVL	Mc Ville Aquifer
38	112MDCK	Maddock Aquifer
38	112MDFD	Medford Aquifer
38	112MDIN	Medina Aquifer
38	112MDWY	Midway Aquifer
38	112MFRD	Manfred Aquifer
38	112MIRV	Missouri River
38	112MLCL	Milnor Channel Aquifer
38	112MMPL	Marstonmoor Plain Aquifer
38	112MNCH	Munich Aquifer
38	112MNKN	Minnewaukan Aquifer
38	112MNMR	Mount Moriah Aquifer
38	112MNOT	Minot Aquifer
38	112MPLR	Montpelier Aquifer

38	112MRCR	Mercer Aquifer
38	112MRTN	Martin Aquifer System
38	112NBDC	Northwest Buried Channel Aquifer
38	112NBLG	North Burleigh Aquifer
38	112NPLN	Napoleon Aquifer
38	112NRED	Northwest Eddy Aquifer
38	112NRHL	North Hill Aquifer
38	112NRKF	New Rockford Aquifer
38	112NRVL	Nortonville Aquifer
38	112NWTN	New Town Aquifer
38	112OBRN	Oberon Aquifer
38	112OKES	Oakes Aquifer
38	112OTRL	Ottertail Aquifer
38	112OTSH	Outwash
38	112PAGE	Page Aquifer
38	112PLLK	Pleasant Lake Aquifer
38	112PLSC	Pleistocene Series
38	112PMBD	Pembina Delta Aquifer
38	112PMBR	Pembina River Aquifer
38	112PPCK	Pipestem Creek Aquifer
38	112PPLR	Poplar Aquifer
38	112PWCK	Painted Woods Creek Aquifer, Pleistocene
38	112PWLK	Painted Woods Lake Aquifer, Plesitocene
38	112RAY	Ray Aquifer
38	112RCKR	Rocky Run Aquifer
38	112RFLD	Rosefield Aquifer
38	112RGBY	Rugby Aquifer
38	112RLLK	Russel Lake Aquifer
38	112RMCK	Random Creek Aquifer
38	112ROLL	Rolla Aquifer, Pleistocene
38	112RSLD	Rusland Aquifer
38	112RVDL	Riverdale Aquifer
38	112RYDR	Ryder Aquifer
38	112SBLC	Sibley Channel Aquifer
38	112SBLK	Strawberry Lake Aquifer
38	112SBRG	Strasburg Aquifer
38	112SCNL	Soo Channel Aquifer
38	112SDBC	Sundre Buried Channel Aquifer
38	112SDPR	Sand Prairie Aquifer
38	112SFSD	South Fessenden Aquifer
38	112SIMS	Sims Aquifer
38	112SJMS	St. James Aquifer
38	112SKCK	Snake Creek Aquifer
38	112SKJL	Skjermo Lake Aquifer
38	112SLCK	Shell Creek Aquifer System
38	112SLDS	Shields Aquifer
38	112SLVL	Shell Valley Aquifer, Pleistocene
38	112SNCL	Sheyenne Channel Aquifer
38	112SNDL	Sheyenne Delta Aquifer
38	112SONA	Sonora Aquifer
38	112SORV	Souris Valley Aquifer
38	112SPCK	Spring Creek Aquifer
38	112SPRD	Spiritwood Aquifer
38	112SQBC	Square Butte Creek Aquifer

38	112SRKH	Starkweather Aquifer
38	112SSLG	Stoney Slough Aquifer
38	112STHL	South Hill Aquifer
38	112STRR	Streeter Aquifer
38	112SVLG	Sheyenne Village Aquifer
38	112SVMC	Seven Mile Coulee Aquifer
38	112SYDN	Sydney Aquifer
38	112TAPN	Tappen Aquifer
38	112TBCG	Tobacco Garden Aquifer
38	112TILL	Till Deposits
38	112TILLD	Till Deposits
38	112TLGN	Tolgen Aquifer
38	112TLLK	Turtle Lake Aquifer System
38	112TMPS	Thompson Aquifer
38	112TOKO	Tokio Aquifer
38	112TRCT	Tower City Aquifer
38	112TRNN	Trenton Aquifer
38	112TRRC	Terrace Deposits
38	112UBCK	Upper Buffalo Creek Aquifer
38	112VANG	Vang Aquifer
38	112VLCT	Valley City Aquifer
38	112VLTRA	Voltaire Aquifer
38	112WDSR	Windsor Aquifer
38	112WFCK	Wolf Creek Aquifer
38	112WFRG	West Fargo Aquifer
38	112WGCL	Wing Channel Aquifer
38	112WGPR	Wagonsport Aquifer
38	112WIDR	Windsor Aquifer
38	112WLDR	Wildrose Aquifer
38	112WLSG	Weller Slough Aquifer
38	112WMBD	Wimbledon Aquifer
38	112WNOA	Winona Aquifer
38	112WPTN	Wahpeton Aquifer
38	112WRCK	Warwick Aquifer
38	112WSHK	Wishek Aquifer System - Pleistocene
38	112WSLD	White Shield Aquifer
38	112WWLD	West Wildrose Aquifer
38	112YKCK	Yanktonai Creek Aquifer
38	112YPSL	Ypsilanti Aquifer, Pleistocene
38	112ZLND	Zeeland Aquifer - Pleistocene
38	120TRTR	Tertiary System
38	122MOCN	Miocene Series
38	123WRVR	White River Formation
38	124GLDV	Golden Valley Formation
38	124GVSB	Golden Vally Formation (Eocene-Paleocene) Butte Mem of
Fort Union Form		
38	125CBLD	Cannonball-Ludlow Members of Fort Union Formation
38	125CLCI	Coal Lake Coulee Interval
38	125CLKC	Coal Lake Coulee Bed
38	125CNBL	Cannonball Member of Fort Union Formation
38	125FRUN	Fort Union Formation
38	125HGEL	Hagel Bed
38	125HGIV	Hagel Interval
38	125HRMN	Harmon Lignite Aquifer, Paleocene

38	125HSLR	Hensler Bed
38	125KCIV	Kinneman Creek Interval
38	125LDLW	Ludlow Member of Fort Union Formation
38	125LHCK	Ludlow Member of Fort Union Formation-Hell Creek Formation
38	125SBLG	Sentinel Butte Lignite Aquifer, Paleocene
38	125SBTR	Sentinel Butte-Tongue River Members of Fort Union Formation
38	125SNLB	Sentinel Butte Member of Fort Union Formation
38	125TGRV	Tongue River Member of Fort Union Formation
38	125TGRVL	Tongue River Member of Fort Union Formation, Lower
38	125TGRVS	Tongue River Spoils Piles
38	125TRVC	Tongue River-Cannonball Members of Fort Union Formation
		Paleocene
38	125TRVL	Tongue River-Ludlow Members of Fort Union Formation
38	125TVCI	Travis Creek Interval
38	125TVCK	Travis Creek Bed
38	125UDDB	Underwood B Bed
38	125UDDC	Underwood C Bed
38	125UDDS	Underwood Sheet Sand
38	125UDRD	Underwood Sand
38	125WLSG	Weller Slough Bed
38	125WSIV	Weller Slough Interval
38	200MSZC	Mesozoic Erathem
38	210CRCS	Cretaceous System
38	211BLFC	Belle Fourche Formation
38	211CLRD	Colorado Group
38	211CRCSU	Upper Cretaceous Series
38	211CRLI	Carlile Shale
38	211EAGL	Eagle Formation
38	211EGLE	Eagle Formation
38	211FXHL	Fox Hills Formation
38	211GRNR	Greenhorn Formation
38	211GRRS	Graneros Shale
38	211HCFH	Hell Creek Formation-Fox Hills Sandstone
38	211HLCK	Hell Creek Formation
38	211JDRV	Judith River Formation
38	211JURV	Judith River Formation
38	211MNTN	Montana Group
38	211NBRR	Niobrara Formation
38	211PIRR	Pierre Shale
38	217CRCSL	Lower Cretaceous Series
38	217DKOT	Dakota Group or Formation or Aquifer
38	217FLRV	Fall River Formation
38	217LKOT	Lakota Formation
38	217MWRY	Mowry Shale
38	217NCSL	Newcastle Sandstone
38	217SKCK	Skull Creek Shale
38	220JRSC	Jurassic System
38	220RDBD	Jurassic Red Beds
38	221JRSCU	Upper Jurassic Series
38	221MRSN	Morrison Formation
38	221RRDN	Rierdon Formation
38	221SNDC	Sundance Formation

38	221SWFT	Swift Formation
38	224JRSCM	Middle Jurassic Series
38	224PIPR	Piper Formation
38	230SPRF	Spearfish Formation (Triassic-Permian)
38	230TRSC	Triassic System
38	300PLZC	Paleozoic Erathem
38	310MNKT	Minnekahta Limestone
38	310MNLS	Minnelusa Formation (Permian andPennsylvanian)
38	310PRMN	Permian System
38	317OPCH	Opeche Shale
38	320AMSD	Amsden Formation
38	320PSLV	Pennsylvanian System
38	320TYLR	Tyler Formation
38	330BKKN	Bakken Formation (Mississippian and Devonian)
38	330MSSP	Mississippian System
38	331BGSN	Big Snowy Group
38	331CRLS	Charles Formation
38	331HETH	Heath Formation or Shale of Big Snowy Group
38	331KBBY	Kibbey Sandstone
38	331MDSN	Madison Group (Upper and Lower Mississippian)
38	331MSNC	Mission Canyon Limestone
38	331MSSPU	Mississippian, Upper
38	331OTTR	Otter Formation of Big Snowy Group
38	337LDGP	Lodgepole Limestone of Madison Group
38	337MSSPL	Mississippian, Lower
38	340DVNN	Devonian System
38	341BRDB	Birdbear Formation
38	341DUPR	Duperow Formation
38	341DVNNU	Devonian, Upper
38	341JFRS	Jefferson Group
38	341SRRV	Souris River Formation
38	341TRFK	Three Forks Shale
38	344DDNB	Dawson Bay Formation
38	344DVNNM	Devonian, Middle
38	344ELKP	Elk Point Group
38	344PRIR	Prairie Formation
38	344WPGS	Winnipegosis Formation
38	347BRTB	Beartooth Butte Formation
38	347DVNNL	Devonian, Lower
38	350IRLK	Interlake Formation
38	354SLRNM	Silurian, Middle
38	357SLRNL	Silurian, Lower
38	360DDWD	Deadwood Formation
38	360ODUC	Ordovician System
38	361ODVCU	Ordovician, Upper
38	361RDRV	Red River Formation
38	361SNMN	Stony Mountain Formation
38	361STNL	Stonewall Formation
38	364ODVCM	Ordovician, Middle
38	364WNPG	Winnipeg Formation
38	370CMBR	Cambrian System
38	371CMBRU	Cambrian, Upper
38	400PCMB	Precambrian Erathem
38	400PCMBG	Precambrian Granite

38	BASEMENT	Basement
38	BEDROCK	Bedrock
39	100CNZC	Cenozoic Erathem
39	110QRNR	Quaternary System
39	111ALVM	Holocene Alluvium
39	111CLVM	Colluvium
39	111TRRC	Terrace Deposits
39	112LAKE	Lake Deposits
39	112OTSH	Outwash
39	112TILL	Till
39	300PLZC	Paleozoic Erathem
39	310PRMN	Permian System
39	317GREN	Greene Formation
39	317WSNG	Washington Formation
39	320PSLV	Pennsylvanian System
39	321CNMG	Conemaugh Formation
39	321MNGL	Monongahela Formation
39	324ALGN	Allegheny Formation
39	324PSVL	Pottsville Formation
39	327SHRN	Sharon Formation
39	327SHRNC	Sharon Conglomerate
39	330BDFD	Bedford Shale
39	330BERE	Berea Sandstone
39	330CYHG	Cuyahoga Formation
39	330MSSP	Mississippian System
39	330MSSPD	Mississippian-Devonian Systems
39	330SNBR	Sunbury Shale
39	331LOGN	Logan Formation
39	331MXVL	Maxville Limestone
39	337CSSG	Cussewago Sandstone
39	337CUSG	Cussewago Sandstone
39	340DVNN	Devonian System
39	341BDFD	Bedford Shale
39	341DVNNU	Devonian, Upper
39	341OHIO	Ohio Shale
39	341OLNG	Olentangy Shale
39	344AMBG	Amherstburg Formation
39	344CLMB	Columbus Limestone
39	344DLWR	Delaware Limestone
39	344DRVR	Detroit River Group
39	344DVNNM	Devonian, Middle
39	344LUCA	Lucas Limestone
39	344LUCS	Lucas Limestone
39	344MRCL	Marcellus Shale
39	344NIAG	Niagara Dolomite
39	347HLBR	Hillsboro Sandstone
39	347ORIS	Oriskany Sandstone
39	347ORSK	Oriskany Sandstone
39	350SLRN	Silurian System
39	351BILD	Bass Islands Dolomite
39	351BILDG	Bass Islands Group
39	351GFLD	Greenfield Dolomite
39	351PINB	Put-In-Bay Dolomite
39	351RRVR	Raisin River Dolomite

39	351SLIN	Salina Formation
39	351SLRNU	Silurian, Upper
39	351TMCT	Tymochtee Formation
39	354CDVL	Cedarville Dolomite
39	354DYN	Dayton Limestone
39	354EPHM	Euphemia Dolomite
39	354OSGD	Osgood Formation
39	354SLRNM	Silurian, Middle
39	354SPGF	Springfield Limestone
39	355LCKP	Lockport Dolomite
39	355NIGR	Niagara Dolomite
39	357BFLD	Brassfield Limestone
39	357SLRNL	Silurian, Lower
39	360ODVC	Ordovician System
39	361ARNM	Arnheim Shale
39	361EDEN	Eden Group
39	361ELKR	Elkhorn Formation
39	361FLTIN	Fulton Shale
39	361FRVW	Fairview Formation
39	361KOPE	Kope Formation
39	361LBRT	Liberty Formation
39	361LTON	Latonia Shale
39	361MCML	Mc Millan Formation
39	361MSVL	Maysville Group
39	361ODVCU	Ordovician, Upper
39	361RCMD	Richmond Group
39	361UTIC	Utica Shale
39	361WSVL	Waynesville Shale
39	361WTTR	Whitewater Formation
39	364GLND	Glenwood Shale Member of Platteville Formation
39	364PPLS	Point Pleasant Formation
39	364SNPR	Saint Peter Sandstone
39	364TRNN	Trenton Limestone
39	365BKRV	Black River Formation
39	370CMBR	Cambrian System
39	400PCMB	Precambrian Erathem
39	BASEMENT	Basement
39	BEDROCK	Bedrock
40	100CNZC	Cenozoic Erathem
40	110ALVM	Quaternary Alluvium
40	110CMTA	Cimarron Terrace and Alluvial Aquifer
40	110EFRT	Elm Fork Red River Terrace Aquifer
40	110EFTA	Elm Fork Red River Terrace & Alluvial Aquifer
40	110LCSR	Lacustrine Deposits
40	110NFDA	North Fork Red River Dune Sand and Alluvial
40	110NFDT	North Fork Red River Dune Sand & Terrace Aquifer
40	110NFRD	North Fork Red River Dune Sand Aquifer
40	110NFRT	North Fork Red River Terrace Aquifer
40	110NFTA	North Fork Red River Terrace & Alluvial Aquifer
40	110QRNR	Quaternary System
40	110RRTA	Red River Terrace and Alluvial Aquifer
40	110RRVT	Red River Terrace Aquifer
40	110SFRT	Salt Fork Red River Terrace Aquifer
40	110SFTA	Salt Fork Red River Terrace & Alluvial Aquifer

40	110TRRC	Terrace Deposits
40	110TRRCL	Terrace, Low, Deposits
40	111EFRR	Elm Fork Red River Alluvial Aquifer
40	111NFRR	North Fork Red River Alluvial Aquifer
40	111RRVA	Red River Alluvial Aquifer
40	111SFRR	Salt Fork Red River Alluvial Aquifer
40	112DUNE	Dune Sand
40	112DUNES	Dune Sand
40	112ODEE	Odee Formation
40	112PLSC	Pleistocene Series
40	112TRRCH	Terrace, High, Deposits
40	120TRTR	Tertiary System
40	121LVRN	Laverne Formation
40	121OGLL	Ogallala Formation
40	121PLCN	Pliocene Series
40	200MSZC	Mesozoic Erathem
40	210CRCS	Cretaceous System
40	211DKCN	Dakota Formation-Cheyenne Sandstone
40	211DKOT	Dakota Sandstone or Formation
40	211EAGF	Eagle Ford Formation
40	211EGFD	Eagle Ford Formation
40	211GRNR	Greenhorn Formation
40	211GRRS	Graneros Shale
40	212BRNS	Brownstown Marl
40	212CLRD	Colorado Formation
40	212GLFN	Gulfian Series
40	212OZAN	Ozan Formation
40	212TOKO	Tokio Formation
40	212WDBN	Woodbine Formation
40	217CENN	Cheyenne Sandstone
40	217CYNN	Cheyenne Sandstone
40	217KIOW	Kiowa Shale
40	217PRGR	Purgatoire Formation
40	218ALRS	Antlers Sandstone
40	218BKCT	Bokchito Formation
40	218BNNG	Bennington Limestone
40	218CDDO	Caddo Limestone
40	218CMNC	Comanchean Series
40	218DKCK	Duck Creek Formation
40	218DNTN	Denton Clay
40	218DQUN	De Queen Limestone
40	218FKBG	Fredericksburg Group
40	218FRWR	Fort Worth Limestone
40	218GDLD	Goodland Limestone
40	218GRSN	Grayson Formation
40	218HLCK	Holly Creek Formation
40	218KMCH	Kiamichi Formation
40	218PLXY	Paluxy Sand
40	218PWPW	Pawpaw Formation
40	218TRNT	Trinity Group
40	218WENO	Weno Limestone
40	218WLNT	Walnut Clay
40	218WSHT	Washita Group
40	220JRSC	Jurassic System

40	221EXTR	Exeter Sandstone
40	221JRSCU	Upper Jurassic Series
40	221MDKM	Morrison-Dockum Formations
40	221MRSN	Morrison Formation
40	230TRSC	Triassic System
40	231DCKM	Dockum Group
40	231TRSCU	Upper Triassic Series
40	281HLCK	Holly Creek Formation
40	300PLZC	Paleozoic Erathem
40	300PMPV	Permian and Pennsylvanian Systems Undifferentiated
40	310GLRT	Glorieta Sandstone
40	310NLNS	Nolans Limestone of the Chase Group
40	310NOLS	Nolans Limestone of the Chase Group
40	310PRMN	Permian System
40	310WLNG	Wellington Formation
40	310WTRS	Whitehorse Sandstone or Group
40	311CDCF	Cloud Chief Formation
40	311DACK	Day Creek Dolomite Member of Cloud Chief Formation
40	311DCRK	Day Creek Dolomite Member of Cloud Chief Formation
40	311MCKK	Moccasin Creek Gypsum Member of Cloud Chief Formation
40	311PRMNU	Upper Permian Series
40	311WRFD	Weatherford Member of Cloud Chief Formation
40	312DOXY	Doxey Member of Quartermaster Formation
40	312ELKC	Elk City Member of Quartermaster Formation
40	312OCHO	Ochoan Series
40	312QRRM	Quartermaster Formation
40	313ACME	Acme Dolomite Member of Blaine Formation
40	313BLIN	Blaine Gypsum
40	313CDRP	Cedartop Gypsum Member of Blaine Formation
40	313CLGR	Collingsworth Gypsum Member of Blaine Formation
40	313CRET	Creta Dolomite Member of Blaine Formation
40	313DCKB	Dog Creek Shale and Blaine Gypsum Aquifer
40	313DCRL	Doe Creek Lentil of Marlow Formation
40	313DGCK	Dog Creek Shale
40	313ELRN	El Reno Group
40	313EMFK	Elm Fork Member of Blaine Formation
40	313EMNL	Emanuel Dolomite Bed of Marlow Formation
40	313FLRP	Flowerpot Shale
40	313GDLP	Guadalupian Series
40	313GPCK	Gypsum Creek Dolomite Bed (Unformal Usage) of Blaine Fm
40	313GRCM	Gracemont Shale Bed of Marlow Formation
40	313GTHR	Guthrie Bed (Informal Usage) of Dog Creek Formation
40	313HLLS	Hollis Bed (Informal Usage) of Dog Creek Formation
40	313HSCK	Haystack Gypsum Member of Blaine Formation
40	313JSTR	Jester Dolomite Member of Blaine Formation
40	313MCQN	Mcqueen Bed (Informal Usage) of Dog Creek Formation
40	313MNGM	Mangum Dolomite Member of Blaine Formation
40	313MRLW	Marlow Formation
40	313OLDL	Old Crow Bed of Rush Springs Formation
40	313RLCK	Relay Creek Dolomite Beds of Marlow Formation
40	313RSPG	Rush Springs Formation
40	313STRD	Southard Dolomite Bed of Dog Creek Shale
40	313VRDN	Verden Sandstone Member of Marlow Formation
40	313VVCV	Van Vacter Member of Blaine Formation

40	313VVCR1	Gypsum Bed 1 of Van Vacter Member of Blaine Formation
40	313VVCR2	Gypsum Bed 2 of Van Vacter Member of Blaine Formation
40	313VVCR3	Gypsum Bed 3 of Van Vacter Member of Blaine Formation
40	313VVCR4	Gypsum Bed 4 of Van Vacter Member of Blaine Formation
40	313VVCR5	Gypsum Bed 5 of Van Vacter Member of Blaine Formation
40	313VVCR6	Gypsum Bed 6 of Van Vacter Member of Blaine Formation
40	313WRFD	Weatherford Gypsum Bed of Rush Springs Formation
40	313WTNG	Watonga Dolomite Bed of Dog Creek Shale
40	317ADMR	Admire Group
40	317BRNS	Barneston Limestone
40	317CCKS	Chickasha Formation of the El Reno Group
40	317CMRN	Cimarronian Stage
40	317FORL	Fort Riley Limestone Member of the Chase Group
40	317FRRL	Fort Riley Limestone Member of the Chase Group
40	317GBWG	Garber-Wellington Aquifer
40	317HERG	Herington Limestone Member of the Chase Group
40	317HRNG	Herington Limestone Member of the Chase Group
40	317WFLD	Winfield Limestone
40	317WRFD	Wreford Limestone
40	318BSON	Bison Banded Member of Hennessey Shale
40	318CCGA	Chase, Council Grove, and Admire Groups
		(undifferentiated)
40	318CDHL	Cedar Hills Sandstone Member of Hennessey Shale
40	318CLFK	Clear Fork Group
40	318FRMN	Fairmont Shale Member of Hennessey Shale
40	318GRBR	Garber Sandstone
40	318HNSS	Hennessey Shale
40	318KIGM	Kingman Sandstone Member of Harper Siltstone
40	318KNGM	Kingman Sandstone Member of Harper Siltstone
40	318LERD	Leonard Formation
40	318LNRD	Leonard Formation
40	318OSCR	Oscar Sandstone
40	318PRCL	Purcell Sandstone Lens In Hennessey Shale
40	318PSOK	Post Oak Conglomerate Member of Wichita Formation
40	318SLPL	Salt Plain Formation
40	318WCHT	Wichita Group
40	318WICT	Wichita Group
40	319ADMR	Admire Group
40	319CCGV	Council Grove Group
40	319CHSE	Chase Group
40	319FRKR	Foraker Limestone
40	319GRNL	Grenola Limestone
40	319PNTC	Pontotoc Group
40	319WFMP	Wolfcamp Formation
40	319WOFP	Wolfcamp Formation
40	320PSLV	Pennsylvanian System
40	321CSCO	Cisco Group
40	321TRNT	Toronto Limestone Member of Oread Limestone
40	322ADA	Ada Formation
40	322CGRC	Collings Ranch Conglomerate
40	322DGLS	Douglas Group
40	322DRCK	Deer Creek Limestone
40	322ELGN	Elgin Sandstone Member of Vamoosa Formation
40	322ORED	Oread Limestone

40	322SHWN	Shawnee Group
40	322STRN	Strawn Group
40	322TOPK	Topeka Limestone
40	322VMOS	Vamoosa Formation
40	322VNSS	Vanoss Formation
40	322VRGL	Virgilian Series
40	322WBNS	Wabaunsee Group
40	323BRDL	Barnsdall Formation
40	323CCKB	Checkerboard Limestone
40	323CFVL	Coffeyville Formation
40	323CHNT	Chanute Formation of Ochelata Group
40	323DEWY	Dewey Limestone
40	323FRCS	Francis Formation
40	323HGSR	Hogshooter Limestone
40	323HXBR	Hoxbar Formation
40	323IOLA	Iola Limestone
40	323KSSC	Kansas City Group
40	323LNSG	Lansing Group
40	323MSSR	Missourian Series
40	323NLBL	Nellie Bly Formation
40	323NOXI	Noxie Sandstone Member of Chanute Formation
40	323NOXIE	Noxie Sandstone Member of Chanute Formation
40	323PLSN	Pleasanton Group
40	323SMNL	Seminole Formation
40	323TLNT	Tallant Formation
40	323TRPD	Torpedo Sandstone Member of Wann Formation
40	323WANN	Wann Formation
40	324BLCT	Belle City Limestone
40	324FRKS	Franks Conglomerate
40	324HLTP	Hilltop Formation
40	324PSLVM	Middle Pennsylvanian Series
40	325ALMN	Altamont Limestone
40	325BGGY	Boggy Shale
40	325BJCK	Bluejacket Sandstone Member of Boggy Shale
40	325BNDR	Bandera Shale
40	325CBNS	Cabaniss Subgroup
40	325CHLS	Chelsea Sandstone Member of Senora Formation
40	325CHRK	Cherokee Group
40	325CLVN	Calvin Sandstone
40	325DEES	Deese Formation
40	325DSMS	Des Moinesian Series
40	325FRSC	Fort Scott Limestone
40	325HLDV	Holdenville Shale
40	325HRSR	Hartshorne Sandstone
40	325KRBS	Krebs Group
40	325LBTT	Labette Shale
40	325LNPH	Lenapah Limestone
40	325MCAL	McAlester Shale
40	325MRMN	Marmaton Group
40	325NOWT	Nowata Shale
40	325OLGH	Oologah Limestone
40	325PWNE	Pawnee Limestone
40	325SNOR	Senora Formation
40	325STRT	Stuart Shale

40	325SVNN	Savanna Sandstone
40	325TRMN	Thurman Sandstone
40	325WTMK	Wetumka Shale
40	325WWOK	Wewoka Formation
40	326ATOK	Atoka Formation
40	327PSLVL	Lower Pennsylvanian Series
40	327UNVL	Union Valley Formation
40	328BLYD	Bloyd Shale
40	328CCKC	Chickachoc Chert
40	328DCKH	Dornick Hills Formation
40	328HALE	Hale Formation
40	328JKFK	Jackfork Sandstone
40	328JSVL	Johns Valley Shale
40	328MRRN	Morrowan Series
40	328SPRG	Springer Group
40	328WPCK	Wapanucka Limestone
40	330MSSP	Mississippian System
40	330STNL	Stanley Shale
40	331BOON	Boone Formation
40	331HDVL	Hindsville Limestone
40	331MFLD	Moorefield Formation
40	331PTKN	Pitkin Limestone
40	332BSVL	Batesville Sandstone
40	332CKCK	Chickasaw Creek Formation
40	332CSTR	Chesterian Series
40	332FTVL	Fayetteville Shale
40	332GDRD	Goddard Shale Member of Springer Formation
40	332MYRS	Moyers Formation
40	332TMCK	Tenmile Creek Formation
40	333DLCK	Delaware Creek Member of Caney Shale
40	333MRMC	Meramecian Series
40	333SGVV	Ste. Genevieve Limestone
40	333SPRG	Spergen Formation
40	333STLS	St. Louis Limestone
40	333WRSW	Warsaw Formation
40	337STJO	St Joe Limestone Member of Boone Formation
40	338FRGL	Fern Glen Limestone
40	338KKUK	Keokuk Limestone
40	338OGKK	Osagean-Kinderhookian Series
40	338OSGN	Osagean Series
40	338RSPG	Reeds Spring Limestone
40	338SCMR	Sycamore Limestone
40	338SOCK	Short Creek Oolite Member of Boone Formation
40	338SRCK	Short Creek Oolite Member of Boone Formation
40	339KDRK	Kinderhookian Series
40	339KKCQ	Kinderhookian-Chautauquan Series
40	339NRTV	Northview Shale
40	340DVNN	Devonian System
40	340HNTN	Hunton Group
40	340MSNR	Misener Sandstone Member of Chattanooga Shale
40	341ARKS	Arkansas Novaculite
40	341CTNG	Chattanooga Shale
40	341DVNNU	Devonian, Upper
40	341WDFD	Woodford Chert

40	347DVNNL	Devonian, Lower
40	350BLCK	Blaylock Sandstone
40	350MSRM	Missouri Mountain Slate
40	350SCLR	St Clair Limestone
40	350SLRN	Silurian System
40	352CYGN	Cayugan Series
40	357CMNL	Chimney Hill Dolomite
40	357SLRNL	Silurian, Lower
40	360ODVC	Ordovician System
40	361FRVL	Fernvale Limestone
40	361ODVCU	Ordovician, Upper
40	361PKCK	Polk Creek Shale
40	361SLVN	Sylvan Shale
40	361VIOL	Viola Limestone
40	361WMBL	Womble Formation
40	364BGFK	Bigfork Chert
40	364BRGN	Burgen Sandstone
40	364BRMD	Bromide Formation
40	364EVRN	Everton Formation
40	364JONS	Joins Formation
40	364MCLS	McLish Formation
40	364ODVCM	Ordovician, Middle
40	364OLCK	Oil Creek Formation
40	364SMPS	Simpson Group
40	364TPCK	Tulip Creek Formation
40	364TYNR	Tyner Formation
40	367ABCK	Arbuckle Group
40	367ABCKU	Arbuckle Limestone, Upper
40	367BLKL	Blakely Sandstone
40	367CLCK	Cool Creek Formation
40	367CRLM	Crystal Mountain Sandstone
40	367CTJF	Cotter-Jefferson City Dolomites
40	367CTTR	Cotter Dolomite
40	367GNTR	Gunter Sandstone Member of Gasconade Dolomite
40	367GSCD	Gasconade Dolomite
40	367GSCDL	Gasconade Dolomite, Lower
40	367GSCDU	Gasconade Dolomite, Upper
40	367KDBD	Kindblade Formation
40	367MKZH	Mckenzie Hill Formation
40	367MZRN	Mazarn Shale
40	367ODVCL	Ordovician, Lower
40	367RBDX	Roubidoux Formation
40	367WSCK	West Spring Creek Formation
40	368CNDN	Canadian Series
40	368JFRC	Jefferson City Dolomite
40	368PWLL	Powell Dolomite
40	368SACK	Swan Creek Sandstone (Informal Unit At Base of Cotter Dolomite)
40	368SCRK	Swan Creek Sandstone (Informal Unit At Base of Cotter Dolomite)
40	370CLLR	Collier Shale
40	370CMBR	Cambrian System
40	371ABCKL	Arbuckle Formation, Lower
40	371BNTR	Bonneterre Dolomite

40	371BTRL	Butterly Dolomite
40	371CMBRU	Cambrian, Upper
40	371CMGR	Upper Cambrian Granite Wash
40	371DBDR	Derby-Doerun Dolomites
40	371EMNC	Eminence Dolomite
40	371EMPT	Eminence-Potosi Dolomites
40	371FRSL	Fort Sill Limestone
40	371LKFT	Lukfata Sandstone
40	371LMTT	Lamotte Sandstone
40	371POTS	Potosi Dolomite
40	371REGN	Reagan Sandstone
40	371ROYR	Royer Dolomite
40	371SGLM	Signal Mountain Formation
40	371TMBH	Timbered Hills Group
40	400PCGR	Precambrian Granite
40	400PCMB	Precambrian Undivided
40	400PCMBV	Precambrian Undivided
40	BASEMENT	Basement
40	BEDROCK	Bedrock
41	100CNZC	Cenozoic Erathem
41	100VLFL	Valley Fill
41	110ALVF	Alluvial Fan Deposits
41	110ALVM	Quaternary Alluvium
41	110ALVMO	Alluvium, Older
41	110ALVMY	Alluvium, Younger
41	110BSLT	Basalt
41	110CLVM	Colluvium
41	110DUNE	Dune Sand
41	110LOSS	Loess
41	110QRNR	Quaternary System
41	110VLCC	Volcanic Rocks
41	110VLCCT	Volcanic Rocks
41	110VLFL	Valley Fill
41	111ALVM	Holocene Alluvium
41	111ALVMY	Alluvium, Younger
41	111DUNE	Dune Sand
41	111HLCN	Holocene Series
41	111MAZM	Mazama Pumice
41	111MRSD	Marine Sand
41	112ADSCP	Andesitic Lava
41	112ALVM	Alluvium
41	112ALVMO	Alluvium, Older
41	112BRNG	Boring Lava
41	112BRNGP	Boring Lava
41	112CGLM	Conglomerate
41	112FLVC	Fluviolacustrine Deposits
41	112LCSR	Lacustrine Deposits
41	112MRIN	Marine Deposits
41	112PCPC	Pleistocene-Pliocene Series
41	112PDMN	Piedmont Deposits
41	112PLSC	Pleistocene Series
41	112PLUS	Palouse Formation
41	112PULNP	Paulina Basalt
41	112SGMF	Sand and Gravel of Missoula Flood Deposits

41	112SPIG	Springwater Formation
41	112SPRG	Springwater Formation
41	112TCHT	Touchet Beds
41	112TRRC	Terrace Deposits
41	112WLMT	Willamette Silt
41	120FLVC	Fluviolacustrine Deposits
41	121ALKC	Alkali Canyon Formation of Dalles Group
41	121BSLT	Basalt
41	121CHNT	Chenoweth Formation of Dalles Group
41	121DLLS	Dalles Group
41	121DNFT	Danforth Formation
41	121DSCS	Deschutes Formation of Dalles Group
41	121FGLM	Fanglomerate Deposits
41	121FRCK	Fort Rock Formation
41	121HSBT	Haynes Butte Basalt
41	121MCKY	Mckay Formation of Dalles Group
41	121PCRK	Picture Rock Basalt
41	121PIRK	Picture Rock Basalt
41	121SDRV	Sandy River Mudstone
41	121SRBR	Strawberry Volcanics
41	121TFBC	Tuff and Breccia
41	121TGVL	Tygh Valley Formation of Dalles Group
41	121TRDL	Troutdale Formation
41	121VPSM	Volcanic Pyroclastic and Sedimentary Rocks
41	121YONN	Yonna Formation
41	122ARMG	Armstrong Canyon Unit of Grande Ronde Basalt
41	122ASTR	Astoria Formation
41	122BARC	Basalt Andesite and Rhyodacite
41	122CBRV	Columbia River Basalt Group
41	122DDGE	Basalt of Dodge of Eckler Mtn Member of Wanapum Basalt
41	122DNYG	Downey Gulch Unit of Grande Ronde Basalt
41	122EGCK	Eagle Creek Formation
41	122EKLR	Eckler Mountain Member of Wanapum Basalt
41	122ELBG	Ellensburg Formation
41	122ELPM	Elephant Mountain Member of Saddle Mountains Basalt
41	122FDSP	Field Springs Unit of Grande Ronde Basalt
41	122FRDG	Fern Ridge Tuff of Sardine Formation
41	122FSPG	Frenchman Springs Member of Wanapum Basalt Formation
41	122GDRD	Grande Ronde Basalt Formation
41	122GNKG	Basalt of Ginkgo of Frenchman Springs Member of Wanapum Basalt
41	122GRCK	Grouse Creek Unit of Grande Ronde Basalt
41	122GRSC	Grouse Creek Unit of Grande Ronde Basalt
41	122ICHB	Ice Harbor Member of Saddle Mountains Basalt
41	122IMNH	Imnaha Basalt of Columbia River Basalt Group
41	122JNDY	John Day Formation
41	122LKGS	Basalt of Lookingglass of Eckler Mountain Member of Wanapum Basalt
41	122LOLO	Basalt of Lolo of Priest Rapids Member of Wanapum Basalt
41	122LRML	Lower Monumental Member of Saddle Mountains Basalt
41	122LTLBO	Little Butte Volcanic Series
41	122LVEY	Levey Interbed (Informal Usage) of Ellensburg Formation
41	122LYFY	Basalt of Lyons Ferry of Frenchman Springs Member of Wanapum Basalt

41	122MBTN	Mabton Member (Informal Usage) of Ellensburg Formation
41	122MOCN	Miocene Series
41	122MRDL	Basalt of Martindale of Ice Harbor Member of Saddle Mountains Basalt
41	122MRINE	Marine Sediments
41	122MSCL	Mascall Formation
41	122ORTL	Ortley Unit of Grande Ronde Basalt
41	122PCGG	Picture Gorge Basalt of Columbia River Basalt Group
41	122PDRV	Powder River Volcanics
41	122POMN	Pomona Member of Saddle Mountains Basalt
41	122PRPD	Priest Rapids Member of Wanapum Basalt Formation
41	122RKRG	Rattlesnake Ridge Member (Informal Usage) of Ellensburg Formation
41	122RLSK	Rattlesnake Formation
41	122ROZA	Roza Member of Wanapum Basalt Formation
41	122RSLA	Basalt of Rosalia of Priest Rapids Member of Wanapum Basalt
41	122SDHW	Basalt of Sand Hollow of Frenchman Springs Member of Wanapum Basalt
41	122SDLM	Saddle Mountains Basalt Formation
41	122SELH	Selah Member (Informal Usage) of Ellensburg Formation
41	122SGMF	Sand and Gravel of Missoula Flood Deposits
41	122SLKC	Slack Canyon Unit of Grande Ronde Basalt
41	122SLSI	Basalt of Sillusi of Umatilla Member of Saddle Mtns Basalt
41	122SQCK	Squaw Creek Diatomite Bed of Ellensburg Formation
41	122SRDN	Sardine Formation
41	122STLB	Sentinel Bluffs Unit of Grande Ronde Basalt
41	122STLG	Basalt of Sentinel Gap of Frenchman Springs Member of Wanapum Basalt
41	122SVFL	Basalt of Silver Falls of Frenchman Springs Member of Wanapum Basalt
41	122TCHT	Touchet Beds
41	122UMTL	Umatilla Member of Saddle Mountains Basalt
41	122UMUM	Basalt of Umatilla of Umatilla Member of Saddle Mtns Basalt
41	122UTNM	Umtanum Unit of Grande Ronde Basalt
41	122VNTG	Vantage Member of Ellensburg Formation
41	122WNPM	Wanapum Basalt Formation
41	122WPSL	Wapshilla Ridge Unit of Grande Ronde Basalt
41	122WTRW	Winter Water Unit of Grande Ronde Basalt
41	122YKIM	Yakima Basalt Subgroup of Columbia River Basalt Group
41	123EOCN	Eocene Series
41	123EUGNE	Eugen Formation
41	123FSHRE	Fisher Formation
41	123KESY	Keasey Formation
41	123MRINO	Marine Rocks, Older
41	123OGCE	Oligocene-Eocene Series
41	123OLGC	Oligocene Series
41	123ROXY	Roxy Formation
41	123YQUN	Yaquina Formation
41	124BSLT	Basalt
41	124CLRN	Clarno Formation
41	124CLSN	Colestin Formation

41	124COLD	Coaledo Formation
41	124EOCN	Eocene Series
41	124NMSM	Nonmarine Sedimentary Rocks
41	124NSTC	Nestucca Formation
41	124SPCR	Spencer Formation
41	124SZRV	Siletz River Volcanic Series
41	124TMKV	Tillamook Volcanic Series
41	124TYEE	Tyee Formation
41	124UMPQ	Umpqua Formation
41	124VLCC	Volcanic Rocks
41	124YMHL	Yamhill Formation
41	200MEZC	Mesozoic Rocks
41	200SDMR	Sedimentary Rocks
41	200SERP	Serpentine
41	200SRPN	Serpentine
41	200VLCC	Volcanic Rocks
41	211HRBK	Hornbrook Formation
41	217GCIVJ	Granitic Intrusive Rocks
41	217GRDR	Granodiorite
41	217QRZD	Quartz Diorite
41	220DTHN	Dothan Formation
41	221GLIC	Galice Formation
41	221UFIV	Ultramafic Intrusive Rocks
41	231APLG	Applegate Group
41	231FDCK	Fields Creek Formation of Aldrich Mountains Group
41	231LCCK	Laycock Graywacke of Aldrich Mountains Group
41	300PLZC	Paleozoic Erathem
41	311CNNM	Canyon Mountain Complex
41	BASEMENT	Basement
41	BEDROCK	Bedrock
42	000AMPB	Amphibolite
42	000ANRS	Anorthosite
42	000GBBR	Gabbro and Gabbroic Gneiss
42	000GRDR	Granodiorite
42	000GRGS	Granite Gneiss
42	000GRNS	Greenstone Schist
42	000GRNT	Granite
42	000GRPC	Graphitic Gneiss
42	000HBLD	Hornblende Gneiss
42	000MBSL	Metabasalt
42	000MDBS	Metadiabase
42	000MFCG	Mafic Gneiss
42	000MFCGH	Mafic Gneiss, Hornblende-Bearing
42	000MFCGP	Mafic Gneiss, Pyroxene-Bearing
42	000MGBR	Metagabbro
42	000MTRL	Metarhyolite
42	000PGMT	Pegmatite
42	000QZMZ	Quartz Monzonite
42	000SRPN	Serpentine
42	100CNZC	Cenozoic Erathem
42	110BECH	Beach Deposits
42	110QRNR	Quaternary System
42	111ALVM	Holocene Alluvium
42	111BECH	Beach Deposits

42	111CLVM	Colluvium
42	111FILL	Fill
42	111HLCN	Holocene Series
42	111SWMP	Swamp Deposits
42	111TRRC	Terrace Deposits
42	112ALVM	Alluvium
42	112BECH	Beach Deposits
42	112CLVM	Colluvium
42	112CMCL	Carmichaels Formation
42	112DRFT	Drift
42	112DRML	Drumlins
42	112ESKR	Eskers
42	112FLVL	Fluvial Deposits
42	112ICCC	Ice-Contact Deposits, Pleistocene
42	112KAME	Kame Deposits
42	112KAMED	Kame Deposits
42	112KMTC	Kame Terrace Deposits
42	112LAKE	Lake Deposits
42	112LOSS	Loess
42	112MORN	Moraine
42	112OTSH	Outwash
42	112PLSC	Pleistocene Series
42	112PNSK	Pensauken Formation
42	112SFDF	Stratified Drift
42	112TILL	Till
42	112TMLM	Terminal Moraine Deposits
42	112TMRP	Trenton-Magothy-Raritan-Potomac Aquifer System
42	112TREN	Trenton Gravel
42	112TRNN	Trenton Gravel
42	112TRRC	Terrace Deposits
42	120TRTR	Tertiary System
42	121BRMR	Bryn Mawr Formation
42	121PLCN	Pliocene Series
42	200MSZC	Mesozoic Erathem
42	210CRCS	Cretaceous System
42	211CRCSU	Upper Cretaceous Series
42	211MGTY	Magothy Formation
42	211MRPA	Magothy-Raritan-Potomac Aquifer System, Undifferentiated
42	211MRPAL	Magothy-Raritan-Potomac Aquifer System, Lower Aquifer
42	211MRPAM	Magothy-Raritan-Potomac Aquifer System, Middle Aquifer
42	211MRPAU	Magothy-Raritan-Potomac Aquifer System, Upper Aquifer
42	217CRCSL	Lower Cretaceous Series
42	217PPSC	Patapsco Formation
42	230TRSC	Triassic System
42	231BRCK	Brunswick Formation
42	231BRCKF	Brunswick, Limestone Fanglomerate
42	231BRCKQ	Brunswick, Quartz Fanglomerate
42	231BSLT	Basalt
42	231DIBS	Diabase Dikes and Sills
42	231GBRG	Gettysburg Shale
42	231GBRGL	Gettysburg Shale, Lower Member
42	231GBRGU	Gettysburg Shale, Upper Member
42	231HDBG	Heidlersburg Member
42	231HMCK	Hammer Creek Formation

42	231LCKG	Lockatong Formation
42	231NOXF	New Oxford Formation
42	231SCKN	Stockton Formation
42	231SCKNL	Stockton Formation, Lower Member
42	231SCKNM	Stockton Formation, Middle Member
42	231SCKNU	Stockton Formation, Upper Member
42	231TRSCU	Upper Triassic Series
42	300BLDR	Boulder Gneiss of Wissahickon Formation
42	300CCKV	Cockeysville Marble
42	300GLRM	Glenarm Series
42	300MABG	Marburg Schist
42	300MCGM	Metaconglomerate of Wissahickon Formation
42	300MGCK	Metagraywacke of Wissahickon Formation
42	300MRBG	Marburg Schist
42	300OCRR	Octararo Phyllite
42	300PLTCL	Pelitic Schist, Lower, of Wissahickon Formation
42	300PLTCU	Pelitic Schist, Upper, of Wissahickon Formation
42	300PLZC	Paleozoic Erathem
42	300PLZCL	Paleozoic Erathem, Lower
42	300PRCK	Peters Creek Schist
42	300STRS	Setters Formation
42	300WKFD	Wakefield Marble
42	300WSCK	Wissahickon Formation
42	300WSCK1	Wissahickon Formation, Informal Subunit Was-1
42	300WSCK2	Wissahickon Formation, Informal Subunit Was-2
42	300WSCK3	Wissahickon Formation, Informal Subunit Was-3
42	300WSCK4	Wissahickon Formation, Informal Subunit Was-4
42	300WSCK5	Wissahickon Formation, Informal Subunit Was-5
42	300WSCKA	Wissahickon Formation, Albite Chlorite Schist
42	300WSCKO	Wissahickon Formation, Oligoclase Mica Schist
42	300WSCKV	Wissahickon Formation, Metavolcanics
42	310PRMN	Permian System
42	317CSVL	Cassville Shale Member
42	317DKRD	Dunkard Group
42	317GREN	Greene Formation
42	317JLTN	Jollytown Coal
42	317LLWG	Little Washington Coal
42	317NNVHN	Nineveh Limestone Member
42	317NNVHS	Nineveh Sandstone Member
42	317PRMNL	Lower Permian Series
42	317TNML	Ten Mile Coal
42	317WBRG	Waynesburg Formation
42	317WBRGA	Waynesburg A Coal
42	317WBRGB	Waynesburg B Coal
42	317WBRGC	Waynesburg Coal
42	317WBRGL	Waynesburg Formation, Lower Member
42	317WBRGM	Waynesburg Formation, Middle Member
42	317WBRGU	Waynesburg Formation, Upper Member
42	317WSNG	Washington Formation
42	317WSNGC	Washington Coal
42	317WSNGL	Washington Formation, Lower Member
42	317WSNGM	Washington Formation, Middle Member
42	317WSNGU	Washington Formation, Upper Member
42	320PSLV	Pennsylvanian System

42	321ADBG	Arnoldsburg Sandstone
42	321ALBG	Albright Limestone
42	321AMES	Ames Coal
42	321AMESN	Ames Limestone
42	321BFFL	Buffalo Sandstone Member of Conemaugh Formation
42	321BKRS�	Bakerstown Coal, Lower
42	321BMGM	Birmingham Redbed
42	321BNWD	Benwood Limestone
42	321BRCK	Brush Creek Limestone
42	321BRCKC	Brush Creek Coal
42	321BRTN	Barton Limestone
42	321BRTNC	Barton Coal
42	321CKBG	Clarksburg Limestone
42	321CLVL	Connellsville Sandstone Member of Conemaugh Formation
42	321CLVLC	Clarysville Coal
42	321CMBG	Cambridge Limestone
42	321CNMG	Conemaugh Formation
42	321CRNT	Corinth Sandstone
42	321CSLM	Casselman Formation
42	321DQSN	Duquesne Coal
42	321EWNG	Ewing Limestone
42	321FDLH	Federal Hill Coal
42	321FDVL	Friendsville Shale
42	321FRKL	Franklin Coal
42	321FSPT	Fishpot Member of Pittsburgh Formation
42	321FSPTC	Fishpot Coal
42	321FSPTN	Fishpot Limestone
42	321GLBY	Gilboy Sandstone
42	321GLNS	Glenshaw Formation
42	321GRFN	Grafton Sandstone
42	321HFMN	Hoffman Coal Group
42	321HMBR	Humbert Coal
42	321IRDL	Irondale Limestone
42	321LLLNL	Llewellyn Formation
42	321LNCG	Lonaconing Coal
42	321LPBG	Little Pittsburgh Coal
42	321LVVL	Lavansville Limestone
42	321LWBG	Little Waynesburg Coal
42	321MNGL	Monongahela Group
42	321MNNG	Mahoning Sandstone Member of Conemaugh Formation
42	321MNNGC	Mahoning Coal
42	321MNNGL	Mahoning Sandstone, Lower Member
42	321MNNGR	Mahoning Redbed
42	321MNNGU	Mahoning Sandstone, Upper Member
42	321MOGL	Monongahela Group
42	321MRDL	Meyersdale Redbed
42	321MRGN	Morgantown Sandstone Member of Conemaugh Formation
42	321MRGNC	Morgantown Coal
42	321NVRN	Niverton Shale
42	321PBRG	Pittsburgh Formation
42	321PBRGC	Pittsburgh Coal
42	321PBRGL	Pittsburgh Formation, Lower Member
42	321PBRGN	Pittsburg Limestone, Lower
42	321PBRGR	Pittsburgh Redbed

42	321PBRGS	Pittsburgh Sandstone
42	321PBRGU	Pittsburgh Formation, Upper Member
42	321PCRK	Pine Creek Limestone
42	321PSLVU	Upper Pennsylvanian Series
42	321RDSN	Redstone Member of Pittsburgh Formation
42	321RDSNC	Redstone Coal
42	321RDSNN	Redstone Limestone
42	321SCKL	Sewickley Member
42	321SCKLC	Sewickley Coal
42	321SCKLS	Sewickley Sandstone
42	321SLBG	Saltsburg Sandstone
42	321SMRL	Summerhill Sandstone Member of Conemaugh Formation
42	321THMS	Thomas Clay
42	321TRNN	Thornton Clay
42	321UFNG	Uffington Shale
42	321UNNN	Uniontown Formation
42	321UNNNC	Uniontown Coal
42	321UNNNL	Uniontown Formation, Lower Member
42	321UNNNN	Uniontown Limestone
42	321UNNNS	Uniontown Sandstone
42	321UNNNU	Uniontown Formation, Upper Member
42	321UPBK	Upper Bakerstown Coal
42	321WDSR	Woods Run Limestone
42	321WLBG	Wellersburg Limestone
42	321WLBGC	Wellersburg Coal
42	321WLMR	Wilmore Sandstone Member of Conemaugh Formation
42	324ALEG	Allegheny Group
42	324ALGN	Allegheny Group
42	324ALPV	Allegheny and Pottsville Groups, Indiff.
42	324BKVL	Brookville Coal
42	324BLVR	Bolivar Clay
42	324BTLR	Butler Sandstone
42	324CFCK	Clearfield Creek Formation
42	324CLMB	Columbiana Shale
42	324CLRN	Clarion Formation
42	324CLRNL	Clarion Coal, Lower
42	324CLRNS	Clarion Sandstone Member
42	324CLRNU	Clarion Coal, Upper
42	324CRVL	Curwensville Formation
42	324FRPR	Freeport Formation
42	324FRPRA	Freeport Coal, Upper
42	324FRPRB	Freeport Coal, Middle
42	324FRPRC	Freeport Coal, Lower
42	324FRPRL	Freeport Limestone
42	324FRPRS	Freeport Sandstone
42	324GLRC	Glen Richey Formation
42	324HMWD	Homewood Formation
42	324HMWDS	Homewood Sandstone Member
42	324JNSN	Johnstown Limestone
42	324KNNG	Kittanning Formation
42	324KNNGA	Kittanning Coal Group, Upper
42	324KNNGB	Kittanning Coal Group, Middle
42	324KNNGC	Kittanning Coal Group, Lower
42	324KNNGL	Kittanning Formation or Member, Lower

42	324KNNGM	Kittanning Formation or Member, Middle
42	324KNNGN	Kittanning Limestone
42	324KNNGS	Kittanning Sandstone Member of Allegheny Formation
42	324KNNGU	Kittanning Formation or Member, Upper
42	324LRLR	Laurel Run Formation
42	324MLSR	Millstone Run Formation
42	324MRCR	Mercer Formation
42	324MRCRC	Mercer Coal Group
42	324MSPG	Mineral Springs Formation
42	324PSLVM	Middle Pennsylvanian Series
42	324PSVL	Pottsville Formation
42	324SCBG	Scrubgrass Coal
42	324SRPM	Sharp Mountain
42	324VNPR	Vanport Limestone Member of Allegheny Formation
42	324WGVL	Washingtonville Shale
42	324WRNGL	Worthington Sandstone Member, Lower
42	324WRNGU	Worthington Sandstone Member, Upper
42	324WRPR	Westernport Sandstone
42	327CQSG	Connoquenessing Formation
42	327CQSGL	Connoquenessing Formation, Lower Member
42	327CQSGM	Connoquenessing Formation, Middle Member
42	327CQSGU	Connoquenessing Formation, Upper Member
42	327ELPK	Elliot Park Formation
42	327MCCK	Mauch Chunk Formation
42	327MCCKU	Mauch Chunk Formation, Upper Member
42	327NRVR	New River Formation
42	327OLEN	Olean Sandstone Member of Pottsville Formation
42	327PNVL	Pineville Sandstone Member of New River Formation
42	327PSLVL	Lower Pennsylvanian Series
42	327QKRN	Quakertown Member of Connoquenessing Formation
42	327QKRNC	Quakertown Coal
42	327SCLK	Schuylkill Member of Pottsville Formation
42	327SHRN	Sharon Formation
42	327SHRNC	Sharon Conglomerate
42	327TBGR	Tumbling Run Member of Pottsville Formation
42	330MSSP	Mississippian System
42	331DRVL	Deer Valley Limestone
42	331GRBR	Greenbrier Limestone
42	331MCCK	Mauch Chunk Formation
42	331MCCKL	Mauch Chunk Formation, Lower Member
42	331MCCKM	Mauch Chunk Formation, Middle Member
42	331MSSPU	Mississippian, Upper
42	331TGCK	Trough Creek Limestone
42	331WPGP	Wymps Gap Limestone
42	337BBGR	Berea, Bedford, Cussewago, and Riceville Fm., Undiff.
42	337BCKV	Beckville Member
42	337BCRV	Berea, Bedford, Cussewago, Riceville, and Venango Fm., Undiff.
42	337BDFD	Bedford Shale
42	337BERE	Berea Sandstone
42	337BGIJ	Big Injun Sand
42	337BRGN	Burgoon Member of Pocono Formation
42	337CBCR	Corry, Bedford, Cussewago, and Riceville Fm., Undiff.
42	337CRRY	Corry Formation

42	337CSSG	Cussewago Formation
42	337CYHG	Cuyahoga Group
42	337HMPF	Hempfield Shale
42	337HNLM	Huntley Mountain Formation
42	337KNPP	Knapp Formation
42	337LLNN	Loyalhanna Limestone
42	337MCRB	Mount Carbon Member of Pocono Formation
42	337MDVL	Meadville Formation
42	337MRVL	Murrysville Formation
42	337MSSPL	Mississippian, Lower
42	337MYRS	Myers Shale
42	337OGVL	Orangeville Shale or Formation
42	337PNKR	Pinkerton Sandstone
42	337POCN	Pocono Formation
42	337PTTN	Patton Shale
42	337RCKL	Rockwell Formation
42	337RDBG	Riddlesburg Shale Member of Pocono Formation
42	337SLMH	Shellhammer Hollow Formation
42	337SNNG	Shenango Formation
42	337SNNGL	Shenango Formation, Lower Member
42	337SNNGU	Shenango Formation, Upper Member
42	337SPKP	Spechty Kopf Formation
42	337SPVL	Sharpsville Formation
42	337SQUW	Squaw Sand
42	340DVNN	Devonian System
42	341ALGP	Allegrippis Sandstone Member of Chemung Formation
42	341AMTY	Amity Shale
42	341BDSR	Buddys Run Member of Catskill Formation
42	341BLHL	Brallier, Harrel Formations Undifferentiated
42	341BRKT	Burkett Member of Rush Formation
42	341BRLR	Brallier Formation
42	341BRRN	Berry Run Member of Catskill Formation
42	341BRSR	Berry Run and Sawmill Run Mbrs of Catskill Formation,
Undivided		
42	341BVMR	Beaverdam Run Member of Catskill Formation
42	341CDKN	Chadakoin Formation
42	341CLKF	Clarks Ferry
42	341CMNG	Chemung Formation
42	341CMNGB	Chemung Formation, Marine Beds
42	341CMNGR	Marine Beds of Chemung Formation
42	341CNDY	Canadaway Formation
42	341CNNG	Conewango Group
42	341CNNT	Conneaut Formation
42	341CRDG	Cherry Ridge Formation or Member
42	341CRGS	Cattaraugus Formation
42	341CSKL	Catskill Formation
42	341CSKLL	Catskill Formation, Lower Redbeds Member
42	341CSKLS	Catskill Formation, Upper Sandstone Member
42	341CSKLU	Catskill Formation, Upper Redbeds Member
42	341DKRK	Dunkirk Formation
42	341DLRV	Delaware River Formation
42	341DNCN	Duncannon Member of Catskill Formation
42	341DVNNU	Devonian, Upper
42	341FKLD	Franklindale Limestone Member of Chemung Formation

42	341FLCK	Fall Creek Conglomerate Member of Chemung Formation
42	341FRKB	Foreknobs Formation
42	341GRDU	Gardeau Formation
42	341GRRD	Girard Formation
42	341HMPR	Hampshire Formation
42	341HRRL	Harrell Shale
42	341HSDL	Honesdale Formation or Member of Catskill Formation
42	341IRVL	Irish Valley Member of Catskill Formation
42	341JNGS	Jennings Formation
42	341KGML	Kings Mill Member of Catskill Formation
42	341LCKX	Lackawaxen Formation
42	341LKHV	Lock Haven Formation
42	341LNGR	Long Run Member of Catskill Formation
42	341LRBW	Long Run, Beaverdam Run, Walckville Mbrs of Catskill Fm,
Undivided		
42	341MDLX	Middlesex Formation
42	341MLRF	Millrift Formation
42	341MPLS	Mount Pleasant Formation
42	341NMFD	New Milford Formation
42	341NRTS	Northeast Shale
42	341NUND	Nunda Formation
42	341OSWY	Oswayo Formation
42	341PCKR	Packerton Member of Catskill Formation
42	341PGPK	Poplar Gap and Packerton Mbrs of Catskill Formation,
Undivided		
42	341PLGP	Poplar Gap Member of Catskill Formation
42	341PPCK	Pipe Creek Formation
42	341PRDG	Piney Ridge Sandstone Memeber of Chemung Formation
42	341RCVL	Riceville Formation
42	341RNSR	Rhinestreet Formation
42	341RUSH	Rush Formation
42	341SCRR	Scherr Formation
42	341SHHL	Shohola Formation
42	341SLBK	Sloat Brook Formation
42	341SLMC	Salamanca Formation
42	341SMCK	Sherman Creek Member of Catskill Formation
42	341SMLR	Sawmill Run Member of Catskill Formation
42	341SNFS	Sunfish Formation
42	341SONY	Sonyea Formation
42	341SSQN	Susquehanna Group
42	341SXTN	Saxton Conglomerate Member of Chemung Formation
42	341TMRK	Trimmers Rock Formation
42	341TMSG	Towamensing Member of Catskill Formation
42	341TRKH	Trimmers Rock and Harrell Formations, Undifferentiated
42	341TWND	Towanda Formation
42	341VNNG	Venango Formation
42	341WCKV	Walcksville Member of Catskill Formation
42	341WDMN	Woodmont Formation
42	341WLTN	Walton Group
42	341WSCY	Wiscoy Formation
42	344BMKF	Buttermilk Falls Formation
42	344BVDM	Beaver Dam Black Shale Member of Needmore Shale
42	344CFLD	Centerfield Zone
42	344DLMT	Dalmatia Member

42	344DVNNM	Devonian, Middle
42	344ESPS	Esopus Formation
42	344FCRG	Fischer Ridge Member
42	344HMLN	Hamilton Group
42	344KNKL	Kunkeltown Zone
42	344LLGP	Little Gap Zone
42	344MNBL	Montebello Sandstone Member of Mahantango Formation
42	344MNNG	Mahantango Formation
42	344MRCL	Marcellus Shale
42	344NDMR	Needmore Shale
42	344NSHL	Nis Hollow Member
42	344ODOP	Onondaga, Old Port Formations Undifferentiated
42	344ONDG	Onondaga Limestone
42	344RMNY	Romney Shale
42	344ROMN	Romney Shale
42	344SCEP	Schoharie and Esopus Formations, Undifferentiated
42	344SLGV	Selinsgrove Member or Limestone of Onondaga Limestone
42	344SMRG	Sherman Ridge Formation or Member of Mahantango Formation
42	344SPRB	Sparrow Bush Formation
42	344TKRG	Turkey Ridge Member of Marcellus Shale
42	344TLLY	Tully Limestone
42	347ADRS	Andreas Red Beds
42	347BCRF	Becraft Limestone
42	347CMNS	Coeymans Limestone
42	347DEPU	Depue Limestone Member of Coeymans Formation
42	347DNVL	Duttonville Member of Rondout Formation
42	347DVNNL	Devonian, Lower
42	347FBKV	Flatbrookville Member of New Scotland Formation
42	347HDBG	Helderberg Group
42	347KKBG	Kalkberg Limestone
42	347KRTL	Keyser, Tonoloway Formations Undifferentiated
42	347KTWC	Keyser, Tonoloway, Wills Creek, Bloomsburg, Mifflintown Fms and Clinto
42	347KTWM	Keyser, Tonoloway, Wills Creek, Bloomsburg, Mifflintown Formations, Un
42	347KYSR	Keyser Limestone
42	347MNDT	Mandata Member of Helderberg Formation
42	347MNLS	Manlius Formation
42	347MNSK	Minisink Limestone
42	347MPCG	Mashipacong Member of Rondout Formation
42	347MSKZ	Maskenozha Member of New Scotland Formation
42	347NSCD	New Scotland Limestone
42	347OLDP	Old Port Formation
42	347ORIS	Oriskany Sandstone
42	347ORSK	Oriskany Sandstone
42	347PLMR	Palmerton Formation
42	347PREN	Port Ewen Shale
42	347PRVL	Peters Valley Member of Coeymans Formation
42	347RDGL	Ridgeley Sandstone
42	347RNDT	Rondout Formation
42	347SCHR	Schoharie Formation
42	347SILD	Shawnee Island Member of Coeymans Formation
42	347SMVL	Stormville Member of Coeymans Formation

42	347SRVR	Shriver Chert
42	347WTPR	Whiteport Dolomite Member of Rondout Formation
42	350SLRN	Silurian System
42	351BBGM	Bloomsburg, Mifflintown Formations Undifferentiated
42	351BDGP	Bridgeport Member of Bloomsburg Formation
42	351BDVL	Bossardville Formation
42	351BMBG	Bloomsburg Formation
42	351CYUG	Cayuga Group
42	351DCKR	Decker Formation
42	351PXID	Poxono Island Formation
42	351SLRNU	Silurian, Upper
42	351TNLY	Tonoloway Limestone
42	351WLCK	Wills Creek Formation
42	351WLCKL	Wills Creek Formation, Lower Member
42	351WLCKU	Wills Creek Formation, Upper Member
42	351WPKC	Wallpack Center Member of Decker Formation
42	354CBHL	Cabin Hill Member of Rose Hill Formation
42	354CLNN	Clinton Formation
42	354CNTR	Center Member of Rose Hill Formation
42	354KEFR	Keefer Sandstone Member of Clinton Formation
42	354MCKZ	Mc Kenzie Formation
42	354MFLN	Mifflintown Formation
42	354RCSR	Rochester Member of Mufflintown Formation
42	354RSHL	Rose Hill Formation
42	354RSHLL	Rose Hill Formation, Lower Member
42	354RSHLM	Rose Hill Formation, Middle Member
42	354RSHLU	Rose Hill Formation, Upper Member
42	354SLRNM	Silurian, Middle
42	354SNGK	Shawangunk Formation
42	354SNGKM	Shawangunk Formation, Middle Member
42	354SNGKU	Shawangunk Formation, Upper Member
42	357CSTN	Castanea Member of Tuscarora Formation
42	357SLRNL	Silurian, Lower
42	357SNGKL	Shawangunk Formation, Lower Member
42	357TCRR	Tuscarora Sandstone
42	360CRDF	Cardiff Metaconglomerate
42	360PCBM	Peach Bottom Slate
42	361BDEG	Bald Eagle Formation
42	361BSKL	Bushkill Member of Martinsburg Formation
42	361CCLC	Cocalico Formation
42	361CCLCP	Cocalico Phyllite
42	361JBEG	Juniata and Bald Eagle Formations
42	361JUNT	Juniata Formation
42	361LSRN	Lost Run Member of Bald Eagle Formation
42	361MLHL	Mill Hill Slate Formation
42	361MRBG	Martinsburg Shale
42	361MRBGA	Martinsburg Shale, A Unit
42	361MRBGB	Martinsburg Shale, B Unit
42	361MRBGC	Martinsburg Shale, C Unit
42	361MRBGD	Martinsburg Shale, D Unit
42	361MRBGE	Martinsburg Shale, E Unit
42	361MRBGF	Martinsburg Shale, F Unit
42	361MRBGG	Martinsburg Shale, G Unit
42	361MRBGH	Martinsburg Shale, H Unit

42	361MRBGL	Martinsburg Shale, Lower Member
42	361MRBGM	Martinsburg Shale, Middle Member
42	361MRBGN	Martinsburg Formation, Basal Limestone
42	361MRBGU	Martinsburg Shale, Upper Member
42	361ODVCU	Ordovician, Upper
42	361PAGL	Pen Argyl Member of Martinsburg Shale
42	361RDVL	Reedsville Formation
42	361RMBG	Ramseyburg Member of Martinsburg Shale
42	361SCRY	Shochary Sandstone
42	361SHLE	Shale
42	364ANTS	Antes Formation
42	364ANVL	Annville Formation
42	364BKMN	Beekmantown Group
42	364BNNR	Benner Formation
42	364BSHL	Benner, Snyder, Hatter, Loysburg Formations
Undifferentiated		
42	364CBBG	Chambersburg Formation
42	364CBRN	Coburn Formation
42	364CBSN	Coburn, Salona, Nealmont Formations Undifferentiated
42	364CRHL	Center Hall Member of Nealmont Formation
42	364CRTN	Curtin Formation
42	364CSNL	Coburn, Salona, Nealmont, Benner, Snyder, Hatter,
Loysburg Fms.		
42	364EYER	Eyer Member of Hatter Formation
42	364GRZR	Grazier Member of Hatter Formation
42	364HMBG	Hamburg Sequence
42	364HMBG1	Hamburg Sequence, Subunit 1
42	364HMBG2	Hamburg Sequence, Subunit 2
42	364HMBG3	Hamburg Sequence, Subunit 3
42	364HMBG4	Hamburg Sequence, Subunit 4
42	364HMBG5	Hamburg Sequence, Subunit 5
42	364HMBG6	Hamburg Sequence, Subunit 6
42	364HMBG7	Hamburg Sequence, Subunit 7
42	364HMBG8	Hamburg Sequence, Subunit 8
42	364HMBG9	Hamburg Sequence, Subunit 9
42	364HMBGA	Hamburg Sequence, Subunit 2a
42	364HMBGB	Hamburg Sequence, Subunit 2b
42	364HNTR	Hunter Formation
42	364HRMA	Hershey-Myerstown-Annville Aquifer
42	364HRMR	Hershey and Myerstown Formations, Undifferentiated
42	364HRSY	Hershey Formation
42	364HSLR	Hostler Member of Hatter Formation
42	364HTTR	Hatter Formation
42	364JKBG	Jacksonburg Formation
42	364JKBGC	Jacksonburg Formation, Cement Limestone
42	364JKBGR	Jacksonburg Formation, Cement Rock
42	364LDHL	Linden Hall Formation
42	364LVLL	Lowville Formation
42	364MRSN	Myerstown Formation
42	364NLMN	Nealmont Formation
42	364ODVCM	Ordovician, Middle
42	364OKHL	Oak Hall Member of Nealmont Formation
42	364ONLN	Ontelaunee Formation
42	364RDMN	Rodman Limestone or Member of Nealmont Formation

42	364SLON	Salona Formation
42	364SNDR	Snyder Member of Benner Formation
42	364STPL	St Paul Group
42	364STVR	Stover Member of Benner Formation
42	364TRNN	Trenton Limestone
42	364VLLV	Valley View Member of Curtin Formation
42	364VLNN	Valentine Member of Curtin Formation
42	365BKRV	Black River Formation
42	367AXMN	Axemann Formation
42	367BFAX	Axemann, Bellefonte Formations
42	367BLFN	Bellefonte Formation
42	367CALM	Carlim Limestone
42	367CLVR	Clover Member of Loysburg Formation
42	367CNSG	Conestoga Formation
42	367CRLM	Carlim Formation
42	367EPLR	Epler Formation
42	367LBRG	Loysburg Formation
42	367LRKE	Larke Formation
42	367MLRY	Milroy Member of Loysburg Formation
42	367NNLK	Nittany Larke Formations
42	367NTTN	Nittany Formation
42	367ODVCL	Ordovician, Lower
42	367PBGS	Pinesburg Station Dolomite
42	367RCKB	Rickenbach Formation
42	367RCKR	Rockdale Run Formation
42	367SFRS	Stoufferstown Formation
42	367SNNG	Stonehenge Formation
42	367TGSP	Tiger-Striped Member
42	370CMBR	Cambrian System
42	371ALNN	Allentown Formation
42	371CCCG	Conococheague Group
42	371CCCGG	Conococheague Group
42	371CMBRU	Cambrian, Upper
42	371ELBK	Elbrook Formation
42	371GBRG	Gatesburg Formation
42	371GBRGL	Gatesburg Formation, Lower Sandy Member
42	371GBRGU	Gatesburg Formation, Upper Sandy Member
42	371LMPR	Limeport Formation
42	371MDCK	Maiden Creek Member of Allentown Formation
42	371MINS	Mines Formation or Member of Gatesburg Formation
42	371MLBC	Milbach Formation
42	371MLBG	Muhlenberg Member of Allentown Formation
42	371ORHL	Ore Hill Member of Gatesburg Formation
42	371PSDM	Potsdam Sandstone
42	371RCLD	Richland Formation
42	371SCFR	Schaefferstown Formation
42	371SDGV	Shadygrove Formation
42	371STCY	Stacy Member of Gatesburg Formation
42	371SZCK	Snitz Creek Formation
42	371TCKR	Tuckerton Member of Allentown Formation
42	371WRRR	Warrior Formation
42	371ZLGR	Zullinger Formation
42	374BSPG	Buffalo Springs Formation
42	374CMBRM	Cambrian, Middle

42	374LSVL	Leithsville Formation
42	374PLHL	Pleasant Hill Formation
42	374ZKCR	Zooks Corner Formation
42	377AMHP	Antietam, Harpers Formation
42	377ANTM	Antietam Formation
42	377CCKS	Chickies Formation
42	377CHLH	Chilhowee Group
42	377CMBRL	Lower Cambrian Series
42	377HLLM	Hellam Member of Chickies Formation
42	377HRDS	Hardyston Quartzite
42	377HRPR	Harpers Formation
42	377KZRS	Kinzers Formation
42	377LDGR	Ledger Formation
42	377LUDN	Loudoun Formation
42	377MNTL	Montalto Member of Harpers Formation
42	377TMSN	Tomstown Dolomite
42	377VNTG	Vintage Formation
42	377WSBR	Waynesboro Formation
42	377WVRN	Weverton Formation
42	400AMPB	Amphibolite
42	400ANRS	Anorthosite
42	400BLMR	Baltimore Gneiss
42	400BMFGA	Banded Mafic Gneiss, Amphibolite Facies
42	400BYRM	Byram Gneiss
42	400FCIGA	Felsic and Intermediate Gneiss, Amphibolite Facies
42	400FLCG	Felsic Gneiss
42	400FLCGA	Felsic Gneiss, Amphibolite Facies
42	400FLCGG	Felsic Gneiss, Granulite Facies
42	400FLCGH	Felsic Gneiss, Hornblende-Bearing
42	400FLCGP	Felsic Gneiss, Pyroxene-Bearing
42	400FMFG	Felsic and Mafic Gneiss
42	400FRKL	Franklin Limestone
42	400GPCGA	Graphitic Gneiss, Amphibolite Facies
42	400GPCGG	Graphitic Gneiss, Granulite Facies
42	400GRCG	Granitic Gneiss
42	400GRLGB	Granulite Gneiss, Mafic
42	400GRLGF	Granulite Gneiss, Felsic
42	400LOSE	Losee Diorite Gneiss
42	400MFCG	Mafic Gneiss
42	400MFCGG	Mafic Gneiss, Granulite Facies
42	400MFCGH	Mafic Gneiss, Hornblende-Bearing
42	400MFCGP	Mafic Gneiss, Pyroxene-Bearing
42	400MRVN	Moravian Heights Formation
42	400PCCK	Pochuck Gneiss
42	400PCKG	Pickering Gneiss
42	400PCMB	Precambrian Erathem
42	400SPGF	Springfield Granodiorite
42	BASEMENT	Basement
42	BEDROCK	Bedrock
44	111ALVM	Holocene Alluvium
44	111BECH	Beach Deposits
44	111CLVM	Colluvium
44	111EOLN	Eolian Deposits
44	111FILL	Fill

44	111MRIN	Marine Deposits
44	111SDMN	Sediments, Undifferentiated
44	111SWMP	Swamp Deposits
44	112DELT	Delta Deposits
44	112ICCC	Ice-Contact Deposits, Including Eskers and Kames
44	112ICCCE	Ice-Contact Deposits, Including Eskers and Kames
44	112LCSR	Lacustrine Deposits
44	112MORN	Moraine Deposits, Except Ground Moraine and Drumlins
44	112MORND	Moraine Deposits, Except Ground Moraine and Drumlins
44	112MRIN	Marine Deposits
44	112OTSH	Outwash
44	112SRFD	Stratified Deposits, Undifferentiated
44	112TILL	Till
44	120SDMS	Sediments
44	200CRSL	Crystalline Rocks
44	210SDMS	Sediments, Undifferentiated
44	230IGNSE	Igneous Rocks, Extrusive
44	230IGNSI	Igneous Rocks, Intrusive
44	230SDMR	Triassic Sedimentary Rocks
44	231EBRL	East Berlin Formation
44	231HLYK	Holyoke Basalt
44	231HMPD	Hampden Basalt
44	231NHVN	New Haven Formation
44	231PRLD	Portland Formation
44	300CRSL	Crystalline Rocks, Undifferentiated
44	300CRSLC	Crystalline Rocks, Carbonate
44	300CRSLN	Crystalline Rocks, Noncarbonate
44	320CRSL	Crystalline Rocks
44	320SDMR	Sedimentary Rocks
44	330CRSL	Crystalline Rocks
44	330SDMR	Sedimentary Rocks
44	340CRSL	Crystalline Rocks, Undifferentiated
44	340CRSLC	Crystalline Rocks, Carbonate
44	340CRSLN	Crystalline Rocks, Noncarbonate
44	350CRSL	Crystalline Rocks, Undifferentiated
44	350CRSLC	Crystalline Rocks, Carbonate
44	350CRSLN	Crystalline Rocks, Noncarbonate
44	360CRSL	Crystalline Rocks, Undifferentiated
44	360CRSLC	Crystalline Rocks, Carbonate
44	360CRSLN	Crystalline Rocks, Noncarbonate
44	370CRSL	Crystalline Rocks, Undifferentiated
44	370CRSLC	Crystalline Rocks, Carbonate
44	370CRSLN	Crystalline Rocks, Noncarbonate
44	400CRSL	Crystalline Rocks, Undifferentiated
44	400CRSLC	Crystalline Rocks, Carbonate
44	400CRSLN	Crystalline Rocks, Noncarbonate
44	BASEMENT	Basement
44	BEDROCK	Bedrock
45	100CLTC	Coastal Terrace Deposits
45	100RGLT	Regolith
45	100TRNS	Transition Zone
45	110QRNR	Quaternary System
45	111ALVM	Holocene Alluvium
45	111HLCN	Holocene Series

45	111SAND	Sand Deposits
45	111SANDD	Sand Deposits
45	112CNPC	Canepatch Formation
45	112LDSN	Ladson Formation
45	112PLSC	Pleistocene Series
45	112PMLC	Pamlico Formation
45	112PNLY	Penholoway Formation
45	112SAND	Sand Deposits
45	112SANDD	Sand Deposits
45	112SVBF	Silver Bluff Formation
45	112TMLH	Ten Mile Hill Beds (Informal)
45	112WNDO	Wando Formation
45	120FDDDB	Floridan, Millers Pond, and Dublin Aquifers
	(Multiaquifer)	
45	120FDMP	Floridan, and Millers Pond Aquifers (Multiaquifer)
45	120FDMV	Floridan, Millers Pond, Dublin and Midville Aquifers
	(Multiaquifer)	
45	120FLRD	Floridan Aquifer System
45	120FLRDM	Middle Floridan Aquifer
45	120FLRDU	Upper Floridan Aquifer
45	120TRSD	Tertiary Sand Aquifer
45	120TRTR	Tertiary System
45	121BBLF	Bear Bluff Formation
45	121GCRK	Goose Creek Limestone
45	121PLCN	Pliocene Series
45	121RYSR	Raysor Formation
45	121WCCM	Waccamaw Formation
45	121YRKN	Yorktown Formation
45	122CSTC	Coosawhatchie Clay Member of Hawthorn Formation
45	122DPLN	Duplin Formation
45	122EDST	Edisto Formation
45	122HTRN	Hawthorn Formation
45	122MKHD	Marks Head Formation
45	122MOCN	Miocene Series
45	122TAMP	Tampa Limestone
45	123ASLY	Ashley Formation of Cooper Group
45	123CDBG	Chandler Bridge Formation
45	123COOP	Cooper Marl Group
45	123COPR	Cooper Marl Group
45	123FLRV	Flint River Formation
45	123OLGC	Oligocene Series
45	124AIKN	Aiken Formation
45	124BKMG	Black Mingo Formation
45	124BMBG	Bamberg Formation
45	124BRNL	Barnwell Formation
45	124CNGR	Congaree Formation
45	124CRSS	Cross, Member of Santee Limestone
45	124CSLH	Castle Hayne Limestone
45	124EOCN	Eocene Series
45	124FSBR	Fishburne Formation
45	124GDDB	Gordon, Millers Pond, and Dublin Aquifers (Multiaquifer)
45	124GDMP	Gordon and Millers Pond Aquifers (Multiaquifer)
45	124GDMV	Gordon, Millers Pond, Dublin and Midville Aquifers
	(Multiaquifer)	

45	124GRDN	Gordon Aquifer System
45	124HLVL	Harleyville Formation of Cooper Group
45	124HUBR	Huber Formation
45	124MCBN	Mc Bean Formation
45	124MLTR	Moultrie Member of Santee Limestone
45	124NESS	Neeses Formation
45	124OCAL	Ocala Limestone
45	124OGBG	Orangeburg Group
45	124PRKF	Parkers Ferry Formation of Cooper Group
45	124SNTE	Santee Limestone
45	124UPTR	Upper Three Runs Aquifer
45	124WLHL	Warley Hill Marl
45	125BFRT	Beaufort Formation
45	125BKMG	Black Mingo Formation
45	125BRFR	Browns Ferry Member of Rhems Formation
45	125CHCR	Chicora Member of Williamsburg Formation
45	125DBLN	Dublin Aquifer System
45	125DBLNL	Dublin Aquifer System, Lower Aquifer
45	125DBLNU	Dublin Aquifer System, Upper Aquifer
45	125DBMV	Dublin-Midville Aquifer System
45	125ELNN	Ellenton Formation
45	125LDBG	Lower Bridge Member of Williamsburg Formation
45	125LNGS	Lang Syne Member of Rhems Formation
45	125MPDB	Millers Pond and Dublin Aquifers (Multiaquifer)
45	125MPMV	Millers Pond, Dublin, and Midville Aquifers
	(Multiaquifer)	
45	125MRBC	Meyers Branch Confining System
45	125MSPD	Millers Pond Aquifer
45	125PKMS	Perkins Bluff Member of Rhems Formation
45	125PLCN	Paleocene Series
45	125RHMS	Rhems Formation
45	125SDLG	Sawdust Landing Member of Rhems Formation
45	125WMBG	Williamsburg Formation
45	200MSZC	Mesozoic Erathem
45	210CRCS	Cretaceous System
45	211BKCK	Black Creek Formation
45	211CCHB	Crouch Branch Aquifer
45	211CHRL	Charleston Aquifer
45	211CPFR	Cape Fear Formation
45	211CRCSU	Upper Cretaceous Series
45	211EUTW	Eutaw Formation
45	211GMLG	Gramling Aquifer
45	211MCQB	McQueen Branch Aquifer
45	211MDDF	Middendorf Formation
45	211MDVL	Midville Aquifer System
45	211MDVLL	Midville Aquifer System, Lower Aquifer
45	211MDVLU	Midville Aquifer System, Upper Aquifer
45	211PEED	Peedee Formation
45	211SNHL	Snow Hill Marl Member of Black Creek Formation
45	211TSCL	Tuscaloosa Formation
45	217CRAQL	Lower Cretaceous Aquifer System, Undifferentiated
45	220JRSC	Jurassic System
45	230TRSC	Triassic System
45	231NWRK	Newark Group

45	300AGGS	Augen Gneiss
45	300ALSK	Alaskite
45	300AMPB	Amphibolite
45	300ANDS	Andesite
45	300APIB	Amphibolite
45	300ARGL	Argillite
45	300BRCC	Breccia
45	300BSLT	Basalt
45	300CGLM	Conglomerate
45	300DCIT	Dacite
45	300DIBS	Diabase
45	300DLMT	Dolomite
45	300DLRT	Dolerite (Diabase)
45	300DORT	Diorite
45	300DUNT	Dunite
45	300GBBR	Gabbro
45	300GNSS	Gneiss
45	300GRCK	Graywacke
45	300GRDR	Granodiorite
45	300GRGS	Granite Gneiss
45	300GRNT	Granite
45	300HBDG	Hornblende Gneiss
45	300MCGS	Mica Gneiss
45	300MCSC	Mica Schist
45	300MGRK	Metaigneous
45	300MMRK	Metasedimentary Rocks
45	300MNZN	Monzonite
45	300MPRK	Metamorphic Rocks
45	300MRBL	Marble
45	300MVRK	Metavolcanic Rocks
45	300PEGM	Pegmatite
45	300PGMT	Pegmatite
45	300PLLT	Phyllite
45	300PLZC	Paleozoic Erathem
45	300PZPB	Paleozoic-Precambrian Erathems
45	300QRTZ	Quartzite
45	300RYLT	Rhyolite
45	300SCST	Schist
45	300SHLE	Shale
45	300SLSN	Siltstone
45	300SLTE	Slate
45	300SNDS	Sandstone
45	300SYNT	Syenite
45	300TRCT	Trachyte
45	300TUFF	Tuff
45	310PRMV	Permian System
45	310YKVL	Yorkville Quartz Monzonite
45	400AGGS	Augen Gneiss
45	400ALSK	Alaskite
45	400AMPB	Amphibolite
45	400ANDS	Andesite
45	400ARGL	Argillite
45	400BRCC	Breccia
45	400BSLT	Basalt

45	400CGLM	Conglomerate
45	400DCIT	Dacite
45	400DLMT	Dolomite
45	400DLRT	Dolerite (Diabase)
45	400DORT	Diorite
45	400DUNT	Dunite
45	400GBBR	Gabbro
45	400GNSS	Gneiss
45	400GRCK	Graywacke
45	400GRDR	Granodiorite
45	400GRGS	Granite Gneiss
45	400GRNT	Precambrian Granite
45	400HBDG	Hornblende
45	400MCGS	Mica Gneiss
45	400MCSC	Mica Schist
45	400MGRK	Metaigneous Rocks
45	400MMRK	Metasedimentary Rocks
45	400MNZN	Monzonite
45	400MPRK	Metamorphic Rocks
45	400MRBL	Marble
45	400MVRK	Metavolcanic Rocks
45	400PGMT	Pegmatite
45	400PLLT	Phyllite
45	400QRTZ	Quartzite
45	400RYLT	Rhyolite
45	400SCST	Schist
45	400SHLE	Shale
45	400SLSN	Siltstone
45	400SLTE	Slate
45	400SNDS	Sandstone
45	400SYNT	Syenite
45	400TRCT	Trachyte
45	400TUFF	Tuff
45	BASEMENT	Basement
45	BEDROCK	Bedrock
46	100CNZC	Cenozoic Erathem
46	110ALVM	Quaternary Alluvium
46	110AVTN	Alluvium, Terrace, Non-Glacial
46	110QRNR	Quaternary System
46	111ALVM	Holocene Alluvium
46	112ALMN	Altamont Aquifer
46	112ALMNL	Altamont Aquifer 3
46	112ALMNM	Altamont Aquifer 2
46	112ALMNU	Altamont Aquifer 1
46	112ALPV	Antelope Valley
46	112AURR	Aurora Aquifer
46	112BCRK	Battle Creek Aquifer
46	112BDCN	Bad Cheyenne
46	112BGSX	Big Sioux Aquifer
46	112BLCK	Brule Creek
46	112BRND	Brandon Aquifer
46	112BVCK	Beaver Creek Aquifer
46	112BWDL	Bowdle Aquifer
46	112CCRK	Cow Creek

46	112CHTU	Choteau Aquifer
46	112CLKS	Coteau-Lakes Aquifer
46	112CLTN	Colton Aquifer
46	112COBB	Cobb Aquifer
46	112COLK	Crow Lake Aquifer
46	112COTU	Coteau Aquifer
46	112CPCK	Chapelle Creek
46	112CRCK	Crow Creek Aquifer
46	112CRLK	Crow Lake Aquifer
46	112CRSC	Corsica Aquifer
46	112DELM	Delmont Aquifer
46	112DLTN	Dolton
46	112DRCT	Dry Choteau Aquifer
46	112EDEN	Eden Aquifer
46	112ELM	Elm Aquifer
46	112EMCK	Elm Creek Aquifer
46	112ETHN	Ethan Aquifer
46	112FICK	Firesteel Creek Aquifer
46	112FLCK	Firesteel Creek Aquifer
46	112FLYD	Floyd Aquifer
46	112FMCK	Four Mile Creek Aquifer
46	112FRMN	Fairmount Aquifer
46	112GARY	Gary Aquifer
46	112GEDS	Geddes Aquifer
46	112GENO	Greenwood Aquifer
46	112GRGS	Gray Goose
46	112GRND	Grand Aquifer
46	112HBMX	Hubonmix Aquifer
46	112HDWD	Hidewood Aquifer
46	112HGMB	Highmore Blunt
46	112HGMR	Highmore Aquifer
46	112HLSV	Hillsvieview
46	112HRBG	Harrisburg
46	112HWRD	Howard
46	112IRMD	Intermediate
46	112JAVA	Java Aquifer
46	112JMES	James Aquifer
46	112JMESD	James Aquifer, Deep
46	112JMESM	James Aquifer, Middle
46	112JMMRL	Lower James Missouri
46	112LGLK	Long Lake Aquifer
46	112LKDK	Lake Dakota Aquifer
46	112LNNX	Lennox
46	112LRVL	Lesterville
46	112MORU	Moreau Gravels
46	112MRDY	Marday Aquifer
46	112MSSR	Missouri
46	112NHLS	Newton Hills
46	112NORD	North Andes Aquifer
46	112NSKC	North Skunk Creek Aquifer
46	112OBJC	Okobojo Creek
46	112ONAK	Onaka
46	112ORTN	Orton Gravels
46	112OTSH	Outwash

46	112PCRK	Pipestone Creek Aquifer
46	112PESE	Pease Aquifer
46	112PKCV	Parker Centerville
46	112PLSC	Pleistocene Series
46	112PLTT	Platte Aquifer
46	112PMCK	Plum Creek Aquifer
46	112PRRC	Prairie Coteau Aquifer
46	112PRRCL	Prairie Coteau Aquifer 3
46	112PRRCM	Prairie Coteau Aquifer 2
46	112PRRCU	Prairie Coteau Aquifer 1
46	112RLND	Rutland Aquifer
46	112RMON	Ramona Aquifer
46	112RSLN	Roslyn Aquifer
46	112RVLL	Revilla
46	112SDLR	Shindler
46	112SKKC	Skunk Creek
46	112SLBY	Selby Aquifer
46	112SLGR	Slaughter Aquifer
46	112SPCK	Spring Creek Aquifer
46	112SPRG	Spring Aquifer
46	112SUCK	Slip Up Creek Aquifer
46	112TDLC	Tyndall-Scotland Aquifer
46	112TKRC	Turkey Ridge Creek
46	112TKRG	Turkey Ridge
46	112TNLS	Twin Lakes Aquifer
46	112TOWR	Tower Aquifer
46	112TULR	Tulare Aquifer
46	112VBLN	Veblen Aquifer
46	112VEFK	Vermillion East Fork
46	112VLTRA	Voltaire Aquifer
46	112VMLMU	Upper Vermillion Missouri
46	112VRML	Lower Vermillion-Missouri Aquifer
46	112VSPG	Valley Springs Aquifer
46	112VWFK	Vermillion West Fork
46	112WILM	Wilmot
46	112WKND	Wakonda Aquifer
46	112WLLK	Wall Lake
46	112WLMT	Wilmot
46	112WMLK	Wilmarth Lake Aquifer
46	112WNFK	Whetstone North Fork
46	112WRRN	Warren Aquifer
46	112WSFK	Whetstone South Fork
46	112WSPG	Wessington Springs Aquifer
46	112WTLK	White Lake Aquifer
46	112WTSN	Whetstone
46	120IBKH	Igneous Rocks of Black Hills
46	120TRTR	Tertiary System
46	121ASHL	Ash Hollow Formation
46	121BJOU	Bijou Formation
46	121OGLL	Ogallala Formation
46	121PLCN	Pliocene Series
46	121VLNN	Valentine Formation
46	122ARKR	Arikaree Formation
46	122HRSN	Harrison Sandstone

46	122MLLT	Mellette Formation
46	122MOCN	Miocene Series
46	122MRCK	Monroe Creek Formation
46	122RCKF	Rockyford Ash Member of Sharps Formation
46	122RSBD	Rosebud Formation
46	122SRPS	Sharps Formation
46	123AHRN	Ahearn Member of Chadron Formation
46	123BRUL	Brule Formation of White River Group
46	123CRDN	Chadron Formation
46	123CRZJ	Crazy Johnson Member of Chadron Formation
46	123OLGC	Oligocene Series
46	123PLSD	Poleslide Member of Brule Formation
46	123PNPK	Peanut Peak Member of Chadron Formation
46	123REE	Ree Beds
46	123SCNC	Scenic Member of Brule Formation
46	123SLMB	Slim Buttes Formation
46	123WIRV	White River Formation or Group
46	123WRVR	White River Group or Formation
46	125CNBL	Cannonball Member of Fort Union Formation
46	125FRUN	Fort Union Formation
46	125LDLW	Ludlow Member of Fort Union Formation
46	125PLCN	Paleocene Series
46	125SCCP	Scotch Cap Sandstone
46	125TGRV	Tongue River Member of Fort Union Formation
46	200MSZC	Mesozoic Erathem
46	210CRCS	Cretaceous System
46	211ARDM	Ardmore Bentonite Bed of Pierre Shale
46	211BEFC	Belle Fourche Shale
46	211BLFC	Belle Fourche Shale
46	211BLLD	Bullhead Lithofacies of Iron Lightning Member of Fox Hills Formation
46	211BRIN	Breien Member of Hell Creek Formation
46	211CDLL	Codell Sandstone Member of Carlile Shale
46	211CLGT	Colgate Lithofacies of Iron Lightning Member of Fox Hills Formation
46	211CLRD	Colorado Group
46	211COLG	Colgate Lithofacies of Iron Lightning Member of Fox Hills Formation
46	211CRCK	Crow Creek Member of Pierre Shale
46	211CRCSU	Upper Cretaceous Series
46	211CRLI	Carlile Shale
46	211DGRY	Degrey Member of Pierre Shale
46	211DKOT	Dakota Sandstone or Formation
46	211EKBU	Elk Butte Member of Pierre Shale
46	211ELKB	Elk Butte Member of Pierre Shale
46	211FXHL	Fox Hills Formation
46	211GMMN	Gammon Ferruginous Member of Pierre Shale
46	211GRER	Greenhorn Limestone
46	211GRGR	Gregory Member of Pierre Shale
46	211GRNR	Greenhorn Limestone or Formation
46	211GROT	Groat Sandstone Bed of Gammon Ferruginous Member of Pierre Shale
46	211GRRS	Graneros Shale
46	211HLCK	Hell Creek Formation

46	211IBLF	Isabel-Firesteel Coal Member of Hell Creek Formation
46	211IRLG	Iron Lightning Member of the Fox Hills Formation
46	211MBDG	Mobridge Member of Pierre Shale
46	211MMHL	Monument Hill Bentonitic Member of Pierre Shale
46	211MNTN	Montana Group
46	211MTTN	Mitten Black Shale Member of Pierre Shale
46	211NBCD	Aquifer In Niobrara Formation & Codell Sandstone Member
Carlile Shale		
46	211NBRR	Niobrara Formation
46	211OMLK	Orman Lake Limestone Member of Greenhorn Formation
46	211PIRR	Pierre Shale
46	211PLCK	Pool Creek Shale Member of Carlile Shale
46	211RDBD	Red Bird Silty Member of Pierre Shale
46	211SGBK	Sage Breaks Shale Member of Carlile Shale
46	211SNVL	Stoneville Member of Fox Hills Sandstone
46	211SRKC	Split Rock Creek
46	211SSPG	Sharon Springs Member of Pierre Shale
46	211TBLK	Timber Lake Member of the Fox Hills Formation
46	211TRLC	Trail City Member of the Fox Hills Formation
46	211TRNR	Turner Sandy Member of Carlile Shale
46	211VGCK	Virgin Creek Member of Pierre Shale
46	211VRDR	Verendrye Member of Pierre Shale
46	217CLSN	Chilson Member of Lakota Formation
46	217CLSP	Clay Spur Bentonite Bed of Mowry Shale
46	217CRCSL	Lower Cretaceous Series
46	217D D Sand	
46	217DNSN	Dynneson Sandstone Member of Mowry Shale
46	217FLRV	Fall River Formation
46	217FUSN	Fuson Member of Lakota Formation
46	217INKR	Inyan Kara Group
46	217J J Sand	
46	217KYHL	Keyhole Sandstone Member of Fall River Formation
46	217LKOT	Lakota Formation
46	217MNST	Minnewaste Limestone Member of Lakota Formation
46	217MWRY	Mowry Shale
46	217NCSL	Newcastle Sandstone
46	217SKCK	Skull Creek Shale
46	220JRSC	Jurassic System
46	221CSPGS	Canyon Springs Sandstone Member of Sundance Formation
46	221HLTT	Hulett Sandstone Member of Sundance Formation
46	221ILAK	Lak Member of Sundance Formation
46	221JRSCU	Upper Jurassic Series
46	221LAK	Lak Member of Sundance Formation
46	221MRSN	Morrison Formation
46	221RDTR	Redwater Shale Member of Sundance Formation
46	221SKBV	Stockade Beaver Shale Member of Sundance Formation
46	221SNDC	Sundance Formation
46	221UKPP	Unkpapa Sandstone Member of Morrison Formation
46	224GPSP	Gypsum Spring Formation
46	224JRSCM	Middle Jurassic Series
46	224PIPR	Piper Formation
46	230PNSL	Pine Salt Member of Spearfish Formation (Triassic-
Permian)		
46	230SPRF	Spearfish Formation (Triassic-Permian)

46	300PLZC	Paleozoic Erathem
46	310BMCK	Broom Creek Member of Minnelusa Formation
46	310CASS	Cassa Member of Minnelusa
46	310MNKT	Minnekahta Limestone
46	310MNLS	Minnelusa Formation (Permian andPennsylvanian)
46	310OLCN	Owl Canyon Formation
46	310PRMN	Permian System
46	317OPCH	Opeche Shale
46	322WVMK	Wendover-Meek Member of Minnelusa Formation
46	325HYDN	Hayden Member of Minnelusa Formation
46	326RCLM	Reclamation Member of Minnelusa Formation
46	326RNDP	Roundtop Member of Minnelusa Formation
46	328FRBK	Fairbank Member of Minnelusa Formation
46	330BKKN	Bakken Formation (Mississippian and Devonian)
46	330EGED	Englewood Formation (Mississippian and Devonian)
46	330EGLD	Englewood Formation (Mississippian and Devonian)
46	330MSSP	Mississippian System
46	331BGSN	Big Snowy Group
46	331CRLS	Charles Formation
46	331KBBY	Kibbey Sandstone
46	331MDSM	Madison Group
46	331MDSN	Madison Group (Upper and Lower Mississippian)
46	331MSNC	Mission Canyon Limestone
46	331MSSPU	Mississippian, Upper
46	337LDGP	Lodgepole Limestone of Madison Group
46	337MSSPL	Mississippian, Lower
46	337PHSP	Pahasapa Limestone
46	340DVNN	Devonian System
46	341BRDB	Birdbear Formation
46	341DPRW	Duperow Formation
46	341DVNNU	Devonian, Upper
46	341JFRS	Jefferson Group
46	341SRRV	Souris River Formation
46	341TRFK	Three Forks Shale
46	344ASRN	Ashern Formation
46	344DVNNM	Devonian, Middle
46	350IRLK	Interlake Formation
46	360DDWD	Deadwood Formation
46	360ODVC	Ordovician System
46	361BGRN	Bighorn Dolomite
46	361GNTN	Gunton Member of Stony Mountain Formation
46	361ODVCU	Ordovician, Upper
46	361PNNR	Penitentiary Member of Stony Mountain Format
46	361RDRV	Red River Formation
46	361SNMN	Stony Mountain Formation
46	361STGN	Stoughton Member of Stony Mountain Formation
46	361STNL	Stonewall Formation
46	361WHTD	Whitewood Dolomite
46	364ALDN	Aladdin Sandstone Member of Winnipeg Formation
46	364ICBX	Icebox Shale Member of Winnipeg Formation
46	364ODVCM	Ordovician, Middle
46	364RGCK	Roughlock Siltstone Member of Winnipeg Formation
46	364ROGK	Roughlock Siltstone Member of Winnipeg Formation
46	364WGSL	""Winnipeg Shale"" of Winnipeg Formation"

46	364WGSS	""Winnipeg Sandstone"" of Winnipeg Formation"
46	364WNPG	Winnipeg Formation
46	364WPGS	""Winnipeg Silt"" of Winnipeg Formation"
46	371DDWD	Deadwood Formation (Outcrop)
46	400BGTN	Bughtown Formation
46	400CROW	Crow Formation
46	400MAYO	Mayo Formation
46	400MBGW	Milbank Granite Wash
46	400MLBK	Milbank Granite
46	400PCMB	Precambrian Erathem
46	400SOUX	Sioux Quartzite
46	400SXWS	Sioux Quartzite Wash Aquifer
46	BASEMENT	Basement
46	BEDROCK	Bedrock
47	100ALVM	Alluvium
47	100CLVM	Colluvium
47	100CNZC	Cenozoic Erathem
47	100FILL	Fill
47	100RGLT	Regolith
47	100RSDM	Residium
47	100SPRL	Saprolite
47	110QRNR	Quaternary System
47	111ALVM	Holocene Alluvium
47	111HLCN	Holocene Series
47	112LOSS	Loess
47	112PLSC	Pleistocene Series
47	112TRRC	Terrace Deposits
47	120TRTR	Tertiary System
47	12405MP	500-foot Sand (Memphis Aquifer)
47	12414MP	1400-foot Sand of Memphis Area
47	124CCKFJ	Cockfield Through Jackson, Undivided
47	124CKMN	Cook Mountain Formation
47	124CLBR	Claiborne Group
47	124EOCN	Eocene Series
47	124EOCNU	Eocene Series, Upper
47	124FLID	Flour Island Formation of Wilcox Group
47	124FRPL	Fort Pillow Sand of Wilcox Group
47	124JCKS	Jackson Group
47	124MMPS	Memphis Sand
47	124ODBK	Old Breastworks Formation
47	124SPRT	Sparta Sand
47	124WLCX	Wilcox Group
47	124WLCXG	Wilcox Group
47	125CLTN	Clayton Formation
47	125MDWY	Midway Group
47	125PLCN	Paleocene Series
47	125PRCK	Porters Creek Clay
47	200MSZC	Mesozoic Erathem
47	210CRCS	Cretaceous System
47	211CCRK	Coon Creek Tongue of Ripley Formation
47	211COCK	Coon Creek Formation
47	211COFF	Coffee Sand
47	211CRCSU	Upper Cretaceous Series
47	211DEMP	Demopolis Formation

47	211DMPL	Demopolis Formation
47	211EUTW	Eutaw Formation
47	211MCNR	McNairy Formation
47	211OLCK	Owl Creek Formation
47	211RPLY	Ripley Formation
47	211SRDS	Sardis Formation
47	211TSCL	Tuscaloosa Formation
47	224CCKFJ	Cockfield-Jackson Formations
47	300PLZC	Paleozoic Erathem
47	320PSLV	Pennsylvanian System
47	324CRSM	Cross Mountain Group
47	324GVGP	Graves Gap Group
47	324IDBF	Indian Bluff Group
47	324PSLVM	Middle Pennsylvanian Series
47	324RDKM	Redoak Mountain Group
47	324SLSN	Slatestone Group
47	324VLMN	Vowell Mountain Group
47	327BRML	Burnt Mill Shale
47	327CBOM	Crab Orchard Mountains Formation
47	327CKFK	Crooked Fork Group
47	327CLFD	Coalfield Sandstone
47	327CRVL	Crossville Sandstone
47	327DRTN	Dorton Shale
47	327FNRS	Fentress Formation
47	327GLMR	Glenmary Shale
47	327GZRD	Gizzard Formation
47	327NWTN	Newton Sandstone
47	327PSLVL	Lower Pennsylvanian Series
47	327RCKC	Rockcastle Conglomerate
47	327RCNM	Raccoon Mountain Member of Gizzard Formation
47	327SEWN	Sewanee Conglomerate
47	327SGLP	Signal Point Shale
47	327VDVR	Vandever Member of Lee Formation
47	327WRBG	Wartburg Sandstone
47	327WRNP	Warren Point Sandstone Member of Lee Formation
47	327WTLL	Whitwell Shale
47	330CTNG	Chattanooga Shale
47	330GRGR	Grainger Formation
47	330MSSP	Mississippian System
47	330NWMN	Newman Limestone
47	331BNGR	Bangor Limestone
47	331HRSL	Hartselle Sandstone
47	331MNGL	Monteagle Limestone
47	331MSSPU	Mississippian, Upper
47	331PNNG	Pennington Formation
47	333SGVV	Ste. Genevieve Limestone
47	333STLS	St. Louis Limestone
47	333WRSW	Warsaw Formation
47	337FRPN	Fort Payne Chert/formation
47	337MSSPL	Mississippian, Lower
47	337MURY	Maury Formation
47	340DVNN	Devonian System
47	344CMDN	Camden Chert
47	344DVNNM	Devonian, Middle

47	344PGRM	Pegram Formation
47	347DVNNL	Devonian, Lower
47	347FLGP	Flat Gap Limestone
47	347HRMN	Harriman Formation
47	347ROSS	Ross Formation
47	350SLRN	Silurian System
47	354BROP	Brownsport Group
47	354BRPR	Brownsport Group
47	354CLNC	Clinch Sandstone
47	354DCTR	Decatur Limestone
47	354RCKD	Rockwood Formation
47	354SLRNM	Silurian, Middle
47	354WYNE	Wayne Group
47	357BFLD	Brassfield Limestone
47	357SLRNL	Silurian, Lower
47	360ODVC	Ordovician System
47	361CKMG	Chickamauga Limestone
47	361EDEN	Eden Group
47	361JUNT	Juniata Formation
47	361LPIC	Leipers-Inman-Catheys Formations Undifferentiated
47	361MRBG	Martinsburg Shale
47	361MSVL	Maysville Group
47	361ODVCU	Ordovician, Upper
47	361RCMD	Richmond Group
47	361SQTC	Sequatchie Formation
47	364ATNS	Athens Shale
47	364BAYS	Bays Formation
47	364BGBC	Bigby and Cannon Limestones
47	364CRRS	Carters Limestone
47	364HLSN	Holston Formation
47	364HRMG	Hermitage Formation
47	364LBNN	Lebanon Limestone
47	364LNOR	Lenoir Limestone
47	364MRFB	Murfreesboro Limestone
47	364NSVL	Nashville Group
47	364ODVCM	Ordovician, Middle
47	364OTTS	Ottosee Shale
47	364PIRC	Pierce Limestone
47	364RDLY	Ridley Limestone
47	364SRVR	Stones River Group
47	364SVIR	Sevier Shale
47	367CPPC	Chepultepec Dolomite
47	367JSBR	Jonesboro Limestone
47	367KGPR	Kingsport Formation
47	367KNOX	Knox Dolomite
47	367LNGV	Longview Dolomite
47	367LOGV	Longview Dolomite
47	367MSCT	Mascot Dolomite
47	367NEWL	Newala Formation
47	367NEWLF	Newala Formation
47	367ODVCL	Ordovician, Lower
47	367WLCK	Wells Creek Formation
47	370CMBR	Cambrian System
47	371CCCC	Conococheague Limestone

47	371CMBRU	Cambrian, Upper
47	371CNSG	Conasauga Group
47	371CONG	Conococheague Limestone
47	371COSG	Conasauga Group
47	371CPRG	Copper Ridge Dolomite
47	371MDVL	Maynardville Limestone
47	371NCCK	Nolichucky Shale
47	374CMBRM	Cambrian, Middle
47	374HNKR	Honaker Dolomite
47	374MRVL	Maryville Limestone
47	374PPKV	Pumpkin Valley Shale
47	374RGVL	Rogersville Shale
47	374RLDG	Rutledge Limestone
47	377CHLH	Chilhowee Group
47	377CMBRL	Lower Cambrian Series
47	377ERWN	Erwin Formation
47	377HESS	Hesse Sandstone
47	377HMPN	Hampton Shale or Formation
47	377MRRY	Murray Shale
47	377NCLS	Nichols Shale
47	377NEBO	Nebo Sandstone
47	377ROME	Rome Formation
47	377SHDY	Shady Dolomite
47	377UNCO	Unicoi Formation
47	400BECH	Beech Granite
47	400BKVL	Bakersville Gabbro
47	400CDES	Cades Sandstone
47	400CRBR	Cranberry Granite
47	400GSMK	Great Smoky Group
47	400IVIG	Intrusive Rocks
47	400MRGR	Mount Rogers Volcanic Group
47	400OCOE	Ocoee Series
47	400PCMB	Precambrian Erathem
47	400RCBT	Rich Butt Sandstone
47	400ROAN	Roan Gneiss
47	400SBRD	Snowbird Group
47	400SDCK	Sandsuck Formation
47	400WDCK	Walden Creek Group
47	BASEMENT	Basement
47	BEDROCK	Bedrock
48	100ALVM	Alluvium
48	100AVSR	Alluvium and Santa Rosa Sandstone
48	100CNZC	Cenozoic Erathem
48	100PCOS	Pecosian Series
48	110ABDC	Alluvial Channel and Plain Deposits, Ogallala Formation,
and Dockum Gr		
48	110ACOD	Alluvial, Channel and Plain Deposits, Ogallala Formation
and Dockum Gr		
48	110ACPA	Alluvial Channel and Plain Deposits, and Artesia Group
48	110ACPD	Alluvial Channel and Plain Deposits, and Dockum Group
48	110ACPO	Alluvial Channel and Plain Deposits, and Ochoa Series
48	110ACSR	Alluvium, Cretaceous Rocks and Santa Rosa Sandstone
48	110ADCB	Alluvial Terrace and Channel Deposits, Dog Creek Shale,
Blaine Gypsum		

48	110AFTA	Alluvium, Fluvial Terrace Deposits, and Artesia Group
48	110AFTP	Alluvium, Fluvial Terrace Deposits, and Pease River Group
48	110AHTP	Alluvium and High Terrace Plain Deposits
48	110AHTW	Alluvium, High Terrace Deposits, and Whitehorse Group
48	110ALRS	Allurossa Aquifer
48	110ALTC	Alluvium, Low Terrace and Channel Fill Deposits
48	110ALTD	Alluvium, Low Terrace and Channel Fill Deposits, and Dune Sand
48	110ALTO	Alluvium, Low Terrace and Channel Fill Deposits, and Ogallala Formatio
48	110ALTW	Alluvium, Low Terrace and Channel Fill Deposits, and Whitehorse Group
48	110ALVM	Quaternary Alluvium
48	110ALVP	Alluvial Plain Deposits
48	110ALWX	Alluvium, Leona Formation, and Wilcox Group
48	110ASCF	Alluvium, Terrace Deposits and Seymour Formation, and Clear Creek Grou
48	110ASCR	Alluvium, Cretaceous Rocks, and Santa Rosa Sandstone
48	110ASRR	Alluvium, Cretaceous Rocks, Santa Rosa Sandstone, and Rustler Formatio
48	110ASSA	Alluvium, Terrace Deposits and Seymour Formation, and San Angelo Ss.
48	110ATCF	Alluvial Terrace and Channel Deposits, and Flowerpot Shale
48	110ATCO	Alluvial Terrace and Channel Deposits, and Ogallala Formation
48	110ATCW	Alluvial Terrace and Channel Deposits, and Whitehorse Group
48	110ATSB	Alluvium, Terrace Deposits and Seymour Formation, and Blaine Formation
48	110ATSF	Alluvium, Terrace Deposits and Seymour Formation, and Flowerpot Shale
48	110AVBT	Alluvium, Beach Sand and Terrace Deposits
48	110AVCC	Alluvium and Cretaceous Rocks
48	110AVCF	Alluvium and Clear Fork Group
48	110AVCM	Alluvium and Cook Mountain Formation
48	110AVCP	Alluvial Channel and Plain Deposits
48	110AVEL	Alluvial, Eolian, and Littoral Deposits
48	110AVEV	Alluvium and Evangeline Aquifer
48	110AVFP	Alluvium, Flood Plain
48	110AVFV	Alluvium and Fluvial Terrace Deposits
48	110AVJK	Alluvium and Jackson Group
48	110AVLA	Alluvium, Leona Formation, and Austin Chalk
48	110AVMA	Alluvium and Artesia Group
48	110AVMC	Alluvium and Chinle Formation Equivalent
48	110AVME	Alluvium and Edwards and Associated Limestones
48	110AVML	Alluvium and Leona Formation
48	110AVMT	Alluvium and Triassic System
48	110AVMW	Alluvium and Wichita Group
48	110AVOG	Alluvium and Ogallala Formation
48	110AVOV	Alluvium and Oakville Sandstone
48	110AVPR	Alluvium and Pease River Group
48	110AVPW	Alluvial Plain Deposits and Whitehorse Group

48	110AVPX	Alluvium and Paluxy Sand
48	110AVSR	Alluvium and Santa Rosa Sandstone
48	110AVTC	Alluvial Terrace and Channel Deposits
48	110AVTR	Alluvium and Trinity Sand
48	110AVTS	Alluvium, Terrace Deposits, and Seymour Formation
48	110AVYG	Alluvium and Yegua Formation
48	110BIBC	Barrier Island and Beach Deposits
48	110BILD	Barrier Island Deposits
48	110DOGL	Dune Sand and Ogallala Formation
48	110DUNE	Dune Sand
48	110GRVL	Gravel
48	110KKRN	Kokernot Formation
48	110MNNS	Monahans Formation
48	110QODV	Quaternary-Ordovician Systems
48	110QRNR	Quaternary System
48	110STEP	South Texas Eolian Plain Deposits
48	110TBLC	Terra Blanca Formation
48	110TRRC	Terrace Deposits
48	111ABZR	Alluvium, Brazos River
48	111AGHC	Alluvial Deposits, Glen Rose Limestone, Hensell and Cow
Creek Members		
48	111ALVM	Holocene Alluvium
48	111AVBD	Alluvium, Beach and Dune Sand
48	111AVCR	Alluvium, Colorado River
48	111AVFP	Alluvium, Flood Plain
48	111AVMT	Alluvium and Terrace Deposits
48	111EOLN	Eolian Deposits
48	111FPTC	Flood-Plain and Terrace Deposits
48	111HLCN	Holocene Series
48	111HPPA	Holocene, Pleistocene, and Pliocene? Alluvial Deposits
48	111IGLD	Ingleside Formation
48	111NCRV	Nueces River Alluvium
48	111PCRV	Pecos River Alluvium
48	111RDRV	Red River Alluvium
48	111RGRD	Rio Grande Alluvium
48	111STGV	Stream and Terrace Gravel
48	111TRRV	Trinity River Alluvium
48	112ALLM	Alta Loma Sand
48	112BMLG	Beaumont Clay, Lissie Formation and Goliad Sand
48	112BMLS	Beaumont Clay and Lissie Formation
48	112BMNT	Beaumont Clay
48	112BNTL	Bentley Formation
48	112CEVG	Chicot and Evangeline Aquifers
48	112CHCT	Chicot Aquifer
48	112CHCTL	Chicot Aquifer, Lower
48	112CHCTM	Chicot Aquifer, Middle
48	112CHCTU	Chicot Aquifer, Upper
48	112CLEV	Chicot Aquifer and Lower Unit of Evangeline Aquifer
48	112DVLL	Deweyville Formation
48	112GDLG	Goliad and Younger Rocks, and Lagarto Clay
48	112GLFC	Gulf Coast Aquifer
48	112GOLD	Goliad and Younger Rocks, Undifferentiated
48	112HCBL	Hueco Bolson Deposits
48	112LACC	Leona Formation and Anacacho Limestone

48	112LBLG	Leona Formation and Bullwagon Dolomite
48	112LEDD	Leona Formation and Edwards and Associated Limestones
48	112LEGF	Leona Formation and Eagle Ford Shale
48	112LEON	Leona Formation
48	112LFSV	Linn-Faysville Aquifer
48	112LGLD	Lissie Formation and Goliad Sand
48	112LGLR	Leona Formation and Glen Rose Limestone
48	112LISS	Lissie Formation
48	112LMBL	La Mesa Bolson Deposits
48	112LNAS	Leona Formation and Austin Chalk
48	112LNBD	Leona Formation and Buda Limestone
48	112LNBL	Leona Formation and Blaine Gypsum
48	112LNCZ	Leona Formation and Choza Formation
48	112LNID	Leona Formation and Indio Formation
48	112LNTR	Leona Formation and Trinity Group
48	112LRGD	Lower Rio Grande Aquifer
48	112LSRP	Leona Formation and Serpentine
48	112LWCX	Leona Formation and Wilcox Formation
48	112LWGD	Lissie Formation, Willis Sand and Goliad Sand
48	112MCSB	Mercedes-Sebastian Aquifer
48	112MGMR	Montgomery Formation
48	112MSBL	Mesilla Bolson Aquifer
48	112MTGM	Montgomery Formation
48	112PCPC	Pleistocene-Pliocene Series
48	112PLSC	Pleistocene Series
48	112PRIR	Prairie Formation
48	112SACZ	San Angelo Sandstone and Choza Formation
48	112SANF	Santa Fe Formation
48	112SCFK	Seymour Formation and Clear Fork Group
48	112SNTF	Santa Fe Formation
48	112SYMR	Seymour Formation
48	112THOK	Tahoka Clay
48	112TRCL	Terrace Gravel, Including Leona Formation
48	112TRRC	Terrace Deposits
48	112TULE	Tule Formation
48	112WLLN	Williana Formation
48	112WLLS	Willis Sand
48	120BLSN	Bolson Deposits
48	120BSLT	Basalt
48	120CSPG	Cottonwood Spring Basalt
48	120DUFF	Duff Formation
48	120GDNG	Goodnight Formation
48	120IGNS	Igneous Rocks
48	120IRSV	Intrusive Rocks
48	120IVIG	Intrusive Rocks
48	120MCCC	Mccutcheon Volcanic Series
48	120MCLM	Mitchell Mesa Rhyolite
48	120PRTT	Pruett Formation
48	120PTHL	Potato Hill Andesite
48	120SNDS	Sandstone
48	120SPCN	Sheep Canyon Basalt
48	120SRPN	Serpentine
48	120TRTR	Tertiary System
48	120VLCC	Volcanic Rocks

48	121BLCC	Blanco Canyon Beds
48	121BLCK	Blounts Creek Member of Fleming Formation
48	121BLNC	Blanco Formation
48	121BOCK	Blounts Creek Member of Fleming Formation
48	121CLRD	Clarendon Beds
48	121COTS	Coetas Formation
48	121EVBV	Evangeline Aquifer and Burkeville Aquiclude
48	121EVGL	Evangeline Aquifer
48	121EVJP	Evangeline and Jasper Aquifers
48	121EVJPU	Evangeline Aquifer and Upper Unit of Jasper Aquifer
48	121FOLY	Foley Formation
48	121GDLG	Goliad Sand and Lagarto Clay
48	121GDYG	Goliad and Younger Rocks, Undifferentiated
48	121GOLD	Goliad Sand
48	121HVPP	Heavily-Pumped Layer
48	121LAPR	Lapara Sand Member of the Goliad Sand
48	121LBHI	Labahia Member of the Goliad Sand
48	121OGDK	Ogallala Formation and Dockum Group
48	121OGDO	Ogallala Formation and Dockum Group
48	121OGLL	Ogallala Formation
48	121OGLW	Ogallala Formation and Whitehorse Group
48	121PLCN	Pliocene Series
48	121PLDR	Palo Duro Beds
48	121UVDA	Uvalde Gravel and Austin Chalk
48	121UVLD	Uvalde Gravel
48	122BKVL	Burkeville Aquiclude
48	122CHUS	Chusa Tuff Member of Catahoula Formation
48	122CJCK	Catahoula Tuff and Jackson Group
48	122CRCK	Castor Creek Member of Fleming Formation
48	122CRNB	Carnahan Bayou Member of Fleming Formation
48	122CTHL	Catahoula Formation
48	122DGHL	Dough Hills Member of Fleming Formation
48	122FANT	Fant Tuff Member of Catahoula Formation
48	122FBKV	Fleming Formation and Burkeville Aquiclude
48	122FLMG	Fleming Formation
48	122JBKV	Jasper Aquifer and Burkeville Aquiclude
48	122JPCL	Jasper Aquifer and Catahoula Sandstone
48	122JPJK	Jasper Aquifer and Jackson Group
48	122JSPR	Jasper Aquifer
48	122JSPRL	Jasper Aquifer, Lower Unit
48	122JSPRU	Jasper Aquifer, Upper Unit
48	122LENA	Lena Member of Fleming Formation
48	122LGRT	Lagarto Clay
48	122LOKV	Lagarto Clay and Oakville Sandstone
48	122LOVC	Lagarto Clay, Oakville Sandstone, and Catahoula Formation
48	122MOCN	Miocene Series
48	122OKVC	Oakville Sandstone and Catahoula Tuff
48	122OKVL	Oakville Sandstone
48	122OV CJ	Oakville Sandstone, Catahoula Tuff and Jackson Group
48	122RWLS	Rawls Basalt
48	122SLDD	Soledad Volcanic Conglomerate Member of Catahoula Formation
48	122WMCK	Williamson Creek Member of Fleming Formation

48	123ANHC	Anahuac Formation
48	123FRIO	Frio Clay
48	123OLGC	Oligocene Series
48	123TSCL	Tascotal Formation
48	123VKBG	Vicksburg Group
48	124ARP	Arp Sand Member of Reklaw Formation
48	124BGDF	Bigford Formation of Claiborne Group
48	124BGFD	Bigford Formation Claiborne Group
48	124CCKF	Cockfield Formation of Claiborne Group
48	124CDLL	Cadell Formation
48	124CKMN	Cook Mountain Formation
48	124CKMS	Cook Mountain Formation and Sparta Sand
48	124CLBR	Claiborne Group
48	124CLLM	Callaham Sand
48	124CPRS	Cypress Aquifer
48	124CRRZ	Carrizo Sand
48	124CRSN	Crosson Trachyte
48	124CRVR	Cane River Formation
48	124CZRK	Carrizo Sand and Reklaw Formation
48	124CZSB	Carrizo Sand and Simsboro Sand Member of Rockdale Formation
48	124CZSP	Carrizo Sand and Sparta Sand
48	124CZWX	Carrizo Sand and Wilcox Group, Undifferentiated
48	124CZWA	Carrizo-Wilcox Aquifer
48	124DBLL	Diboll Member of Jackson Formation
48	124DLRT	Dillworth Sand
48	124DUBS	Dubose Sands and Clays
48	124ELPC	El Pico Clay
48	124EOCN	Eocene Series
48	124FSNG	Fashing Clay
48	124GPSH	Glen Rose (Lower), Pearsall (Hensell, Cow Creek Mbrs), Sligo, Hosston
48	124IDEC	Indio Formation and Escondido Formation
48	124INDO	Indio Formation
48	124JCKS	Jackson Group
48	124JKYG	Jackson Group and Yegua Formation
48	124LRDO	Laredo Formation
48	124MCEL	Mc Elroy Formation
48	124MNNG	Manning Formation of Jackson Group
48	124MRQZ	Marquez Shale Member of Reklaw Formation
48	124NWBY	Newby Glauconitic Sand Member of Reklaw Formation
48	124OLMS	Olmos Sand
48	124OMEN	Omen Member of Mount Selman Formation
48	124PBGF	Post-Bigford Beds of Mount Selman Formation
48	124QCCW	Queen City Sand, Carrizo Sand and Wilcox Group
48	124QCCZ	Queen City Sand and Carrizo Sand
48	124QCSP	Queen City Sand and Sparta Sand
48	124QNCT	Queen City Sand of Claiborne Group
48	124RCKD	Rockdale Formation
48	124RKCZ	Reklaw Formation and Carrizo Sand
48	124RKLW	Reklaw Formation of Claiborne Group
48	124SBNN	Sabinetown Formation
48	124SGUN	Seguin Formation
48	124SMBR	Simsboro Sand Member of Rockdale Formation

48	124SNSC	Stone Switch Sand
48	124SPLR	Spiller Sand Member of Cook Mountain Formation
48	124SPQC	Sparta Sand and Queen City Sand
48	124SPRT	Sparta Sand
48	124SPSP	Sparta Sand and Spiller Sand Member of Cook Mountain Formation
48	124TRLL	Therrill Clay Member of Weches Formation
48	124TYLR	Tyler Greensand Member of Sparta Sand
48	124WCHS	Weches Formation of Claiborne Group
48	124WLBR	Wellborn Sandstone
48	124WLCX	Wilcox Group
48	124WLCXG	Wilcox Group
48	124WTST	Whitsett Formation
48	124WXSX	Wilcox Group and Simsboro Sand Member of Rockdale Formation
48	124YCMS	Yegua Formation, Cook Mountain Formation and Sparta Sand
48	124YEGU	Yegua Formation
48	124YGJK	Yegua Formation and Jackson Group
48	124YGSP	Yegua Formation and Sparta Sand
48	125KNCD	Kincaid Formation
48	125KRNS	Kerens Member of Wills Point Formation
48	125LTTG	Littig Glauconitic Member of Kincaid Formation
48	125MDWY	Midway Group
48	125MEXI	Mexia Member of Wills Point Formation
48	125PLCN	Paleocene Series
48	125PSGH	Pisgah Member of Kincaid Formation
48	125THCN	Tehuacana Member of Kincaid Formation
48	125WLSP	Wills Point Formation
48	200MSZC	Mesozoic Erathem
48	210CCSR	Cretaceous Rocks and Santa Rosa Sandstone
48	210CRCS	Cretaceous System
48	211ACCE	Anacacho Limestone and Escondido Formation
48	211AEDD	Austin Chalk and Edwards and Associated Limestones
48	211AEFB	Austin Chalk, Eagle Ford Shale and Buda Limestone
48	211AGUJ	Aguja Formation
48	211ANCC	Anacacho Limestone
48	211ANNN	Annona Chalk
48	211ASTN	Austin Chalk
48	211BEGF	Buda Limestone and Eagle Ford Shale
48	211BLSM	Blossom Sand
48	211BNHM	Bonham Marl
48	211BQLS	Boquillas Formation
48	211BUDA	Buda Limestone
48	211CHSS	Chisos Volcanics
48	211CRCSU	Upper Cretaceous Series
48	211CRSC	Corsicana Marl
48	211DKOT	Dakota Sandstone or Formation
48	211DLRO	Del Rio Clay
48	211DRNG	Durango Sand Member of Taylor Marl
48	211DXTR	Dexter Member of Woodbine Sand
48	211ECDD	Escondido Formation
48	211ECTR	Ector Tongue of Austin Chalk
48	211EFSP	Eagle Ford Shale and Serpentine
48	211EGFA	Eagle Ford Shale and Austin Chalk

48	211EGFD	Eagle Ford Shale
48	211ELSS	Euless Member of Woodbine Sand
48	211GOBR	Gober Tongue of Austin Chalk
48	211GRRS	Graneros Shale
48	211GRSN	Grayson Shale
48	211KEMP	Kemp Clay
48	211LSVL	Lewisville Member of Woodbine Sand
48	211NCTC	Nacatoch Sand
48	211NLDV	Neylandville Marl
48	211NVR	Navarro Group
48	211PCGP	Pecan Gap Chalk Member of Taylor Marl
48	211PPPR	Pepper Shale
48	211RDBC	Red Branch Member of Woodbine Sand
48	211SCRL	San Carlos Formation
48	211SMGL	San Miguel Formation
48	211TMPL	Templeton Member of Woodbine Sand
48	211TRLG	Terlingua Clay
48	211TRNL	Tornillo Clay
48	211TYLR	Taylor Marl
48	211UPSN	Upson Clay
48	211VIEJ	Vieja Series
48	211WLFC	Wolfe City Sand Member of Taylor Marl
48	212BRNS	Brownstown Marl
48	212GLFN	Gulfian Series
48	212OLMS	Olmos Formation
48	212WDBN	Woodbine Sand
48	212WDBT	Woodbine Sand and Trinity Group
48	212WODB	Woodbine Sand
48	217CRCSL	Lower Cretaceous Series
48	217HSTN	Hosston Formation
48	217PRGR	Purgatoire Formation
48	217SLGO	Sligo Formation
48	218ALER	Antlers Sand
48	218ALRS	Antlers Sand
48	218CCRK	Cow Creek Limestone
48	218CMNC	Comanchean Series
48	218CMPK	Comanche Peak Limestone
48	218COX	Cox Sandstone
48	218DKCK	Duck Creek Limestone
48	218DLCM	Del Carmen Limestone
48	218DNTN	Denton Clay
48	218DUKC	Duck Creek Limestone
48	218DVRV	Devils River Limestone
48	218EBEF	Edwards and Associated Limestones, Buda Limestone, and Eagle Ford Shale
48	218EDDH	Edwards and Associated Limestones, and Hosston Formation
48	218EDDT	Edwards and Associated Limestones, and Trinity Group
48	218EDGR	Edwards and Associated Limestones, and Glen Rose Limestone
48	218EDGRU	Edwards and Associated Limestones, and Upper Member of Glen Rose Ls.
48	218EDPM	Edwards and Associated Limestones, and Permian System
48	218EDRD	Edwards Limestone
48	218EDRDA	Edwards and Associated Limestones

48	218EEGF	Edwards and Associated Limestones, and Eagle Ford Shale
48	218FKBG	Fredericksburg Group
48	218FKBT	Fredericksburg and Trinity Groups
48	218FKBW	Limestones of Fredericksburg and Washita Groups
48	218FNLY	Finlay Limestone
48	218FRWR	Fort Worth Limestone
48	218FWGR	Limestone of Fredericksburg and Washita Groups and Glen
Rose Ls (Upper		
48	218GDLD	Goodland Limestone
48	218GLRH	Glen Rose Limestone and Hensell Member of Pearsall
Foramtion		
48	218GLRP	Glen Rose Limestone and Pearsall Formation
48	218GLRS	Glen Rose Limestone
48	218GLRSL	Glen Rose Limestone, Lower Member
48	218GLRSU	Glen Rose Limestone, Upper Member
48	218GPSH	Glen Rose (Lower), Pearsall (Hensell, Cow Creek Mbrs),
Sligo & Hosston		
48	218GRGN	Georgetown Limestone
48	218GRHC	Glen Rose Ls. and Hensell Sh and Cow Creek Ls Members of
Pearsall Fm		
48	218GRHCU	Glen Rose Ls, Upper Mbr, Hensell Mbr and Cow Creek Ls
Mbr of Pearsall		
48	218GRHCV	Glen Rose Ls, and Upper, Hensell Sh, and Cow Creek Ls
Mbrs of Pearsall		
48	218GRLH	Glen Rose Ls, and Lower and Hensell Sh Members of
Pearsall Formation		
48	218GRUH	Glen Rose Ls, and Upper and Hensell Shale Members of
Pearsall Formatio		
48	218HCSH	Hensell and Cow Creek Mbrs of Pearsall Fm, and Sligo and
Hosston Fms		
48	218HMMT	Hammett Shale
48	218HNSL	Hensell Sand Member of Travis Peak Formation
48	218KMCH	Kiamichi Formation
48	218MCKG	Mc Knight Beds
48	218MNSR	Main Street Limestone
48	218MXON	Maxon Sandstone
48	218PILD	Pine Island Shale
48	218PLXY	Paluxy Sand
48	218PRSL	Pearsall Formation
48	218PSGH	Pearsall, Sligo, and Hosston Formations
48	218PTPH	Paluxy Sand, Travis Peak and Hosston Formations
48	218PWPW	Pawpaw Formation
48	218PXGR	Paluxy Sand and Glen Rose Limestone
48	218SCMR	Sycamore Sand Member of Travis Peak Formation
48	218SNEL	Santa Elena Limestone
48	218TGHC	Trinity Sand, Graham Formation and Home Creek Limestone
48	218THCK	Trinity Sand and Home Creek Limestone
48	218TNMS	Twin Mountains Formation
48	218TPLX	Trinity and Paluxy Sand
48	218TPPX	Travis Peak Formation and Paluxy Sand
48	218TRBL	Trinity Group and Blaine Gypsum
48	218TRCL	Trinity Sand and Chinle Formation Equivalent
48	218TRGM	Trinity Sand and Graham Formation
48	218TRNT	Trinity Group

48	218TVPH	Travis Peak and Hosston Formations
48	218TVPK	Travis Peak Formation
48	218WENO	Weno Limestone
48	218WLNT	Walnut Clay
48	218WSHT	Washita Group
48	219CHUL	Coahuilan Series
48	219SLGH	Sligo and Hosston Formations
48	220JRSC	Jurassic System
48	221JRSCU	Upper Jurassic Series
48	221MLON	Malone Formation
48	230BSST	Bissett Conglomerate
48	230CAPS	Camp Springs Conglomerate
48	230CHNLE	Chinle Formation Equivalent
48	230CPSP	Camp Springs Conglomerate
48	230DCKO	Dockum Group and Ochoa Series
48	230PRCC	Pierce Canyon Redbeds
48	230TRJL	Trujillo Formation
48	230TRSC	Triassic System
48	231CHNL	Chinle Formation
48	231CHNLE	Chinle Formation Equivalent
48	231DCKM	Dockum Group
48	231SNRS	Santa Rosa Sandstone
48	231SRSA	Santa Rosa Sandstone and San Andres Limestone
48	231TCVS	Tecovas Formation
48	231TECV	Tecovas Formation
48	300PLZC	Paleozoic Erathem
48	300PLZCL	Paleozoic Erathem, Lower
48	300PLZCU	Paleozoic Erathem, Upper
48	300PVMD	Pennsylvanian-Mississippian-Devonian Systems
48	310GLRT	Glorieta Sandstone
48	310PRMN	Permian System
48	310QRMW	Quartermaster Formation and Whitehorse Group
48	310QRRM	Quartermaster Formation
48	311ALBS	Alibates Dolomite
48	312CASL	Castile Gypsum
48	312CSTL	Castile Gypsum
48	312DYLK	Dewey Lake Redbeds
48	312OCAR	Ochoan Series and Artesia Group
48	312OCHO	Ochoan Series
48	312RSLR	Rustler Formation
48	312SLDO	Salado Formation
48	312TSSY	Tessey Limestone
48	313ALBS	Alibates Dolomite Lentil of Quartermaster Formation
48	313ALTD	Altuda Formation
48	313ARTS	Artesia Group
48	313BLCN	Bell Canyon Formation
48	313BLIN	Blaine Gypsum
48	313BRSC	Brushy Canyon Formation
48	313BSAG	Blaine Gypsum and San Angelo Sandstone
48	313CLBD	Carlsbad Limestone
48	313CLDR	Childress Dolomite Member of Grayburg Formation
48	313CPTN	Capitan Limestone
48	313CRCN	Cherry Canyon Formation
48	313CRCX	Capitan Reef Complex and Associated Limestones

48	313DBLM	Double Mountain Group
48	313DCBF	Dog Creek Shale, Blaine Gypsum and Flowerpot Shale
48	313DCKB	Dog Creek Shale and Blaine Gypsum
48	313DELM	Delaware Mountain Formation or Group
48	313DGCK	Dog Creek Shale
48	313DLRM	Delaware Mountain Formation or Group
48	313DOCB	Dog Creek Shale and Blaine Gypsum
48	313DOZR	Dozier Sandstone Member of Rush Springs Formation
48	313FLRP	Flowerpot Shale
48	313FPASA	Flowerpot Shale and San Angelo Sandstone
48	313GABG	Grayburg Formation
48	313GDLP	Guadalupian Series
48	313GLLM	Gilliam Limestone
48	313GLLMT	Gilliam Thin-Bedded Member of Capitan Limestone
48	313GRBG	Grayburg Formation
48	313GTSP	Goat Seep Limestone
48	313GTWY	Getaway Limestone Member of Cherry Canyon Formation
48	313HGLR	Hegler Limestone Member of Cherry Canyon Formation
48	313LAMR	Lamar Limestone Member of Bell Canyon Formation
48	313MCMB	Mc Combs Limestone Member of Bell Canyon
48	313MNZN	Manzanita Limestone Member of Cherry Canyon Formation
48	313PNRY	Pinery Limestone Member of Cherry Canyon Formation
48	313QUEN	Queen Formation
48	313RDER	Rader Limestone Member of Cherry Canyon Formation
48	313SADR	San Andres Limestone
48	313SDLR	Saddlehorse Gypsum Lintel of Quartermaster Formation
48	313SVRV	Seven Rivers Formation
48	313SWLS	South Wells Limestone Member of Cherry Canyon Formation
48	313TNSL	Tansill Formation
48	313VDRO	Vidrio Limestone Member of Word Formation
48	313WDCB	Whitehorse, Dog Creek and Blaine Formations
48	313WORD	Word Formation
48	313YTES	Yates Formation
48	318ACME	Acme Dolomite
48	318ADML	Admiral Formation
48	318ARRY	Arroyo Formation
48	318BLGN	Bullwagon Dolomite Member of Vale Formation
48	318BLPL	Belle Plains Formation
48	318BSPG	Bone Spring Limestone
48	318BSVP	Bone Spring and Victoria Peak Limestones
48	318CDLM	Cathedral Mountain Formation
48	318CHOZ	Choza Formation
48	318CLFK	Clear Fork Group
48	318CLGR	Collingsworth Gypsum Member of Blaine Formation
48	318CLYD	Clyde Formation
48	318CTFF	Cutoff Shaly Member of Bone Spring Limestone
48	318HESS	Hess Limestone Member of Leonard Formation
48	318LDRS	Lueders Limestone
48	318LNRD	Leonardian Series
48	318MRKL	Merkel Dolomite Member of Choza Formation
48	318PRVR	Pease River Group
48	318RINY	Rainey Limestone Member of Arroyo Formation
48	318SAGL	San Angelo Sandstone
48	318SDPP	Standpipe Limestone Member of Arroyo Formation

48	318VALE	Vale Formation
48	318VCPK	Victorio Peak Limestone
48	318WCCC	Wichita and Cisco Groups
48	318WCHT	Wichita Formation or Group
48	319CMJC	Coleman Junction Limestone Member of Putnam Formation
48	319HUCO	Hueco Limestone
48	319MORN	Moran Formation
48	319PTNM	Putnam Formation
48	319PUBL	Pueblo Formation
48	319WFMP	Wolfcamp Formation
48	319WOFD	Wolfcamp Formation
48	320BEND	Bend Group
48	320DMPL	Dimple Limestone
48	320MBLF	Marble Falls Limestone
48	320PSLV	Pennsylvanian System
48	320SMCK	Smithwick Shale
48	321CCRP	Colony Creek Shale, Ranger Limestone and Placid Shale
48	321CLCK	Colony Creek Shale
48	321CNYN	Canyon Group
48	321CSCO	Cisco Group
48	321GPNK	Gaptank Formation
48	321GRFD	Grayford Formation
48	321GRHM	Graham Formation
48	321HMCK	Home Creek Limestone
48	321HPVL	Harpersville Formation
48	321PLCD	Placid Shale
48	321PLPN	Palo Pinto Limestone
48	321PSDN	Posideon Shale
48	321PSLVU	Upper Pennsylvanian Series
48	321PWWM	Placid Shale, Winchell Limestone, and Wolf Mountain
	Shale	
48	321RNGR	Ranger Limestone
48	321TFGM	Thrifty and Graham Formations
48	321TRFT	Thrifty Formation
48	321WFMP	Wolf Mountain Shale and Posideon Shale
48	321WLFM	Wolf Mountain Shale
48	321WMPP	Wolf Mountain Shale, Posideon Shale, and Palo Pinto
	Limestone	
48	321WNCL	Winchell Limestone
48	324BZRVL	Brazos River Conglomerate Member, Lower Part of Garner
	Formation	
48	324BZRVU	Brazos River Conglomerate Member, Upper Part of Garner
	Formation	
48	324ESMN	East Mountain Shale Member of Mineral Wells Formation
48	324GRNR	Garner Formation
48	324LKPN	Lake Pinto Sandstone Member of Mineral Wells Formation
48	324MLWL	Mineral Wells Formation
48	324PSLVM	Middle Pennsylvanian Series
48	324STRN	Strawn Group
48	327HMND	Haymond Formation
48	327PSLVL	Lower Pennsylvanian Series
48	327TSNS	Tesnus Formation
48	330BRNT	Barnett Shale
48	330CPPL	Chappel Formation

48	330HLMS	Helms Formation
48	330MSSP	Mississippian System
48	340CBLS	Caballos Novaculite
48	340DVNN	Devonian System
48	350SLRN	Silurian System
48	354FSLM	Fusselman Dolomite
48	360ODVC	Ordovician System
48	361BRNM	Burnam Limestone
48	361MNTY	Montoya Limestone
48	361MONT	Montoya Limestone
48	361MRVL	Maravillas Chert
48	361ODVCU	Ordovician, Upper
48	364FRPM	Fort Pena Formation and Marathon Limestone
48	364FRPN	Fort Pena Formation
48	364ODVCM	Ordovician, Middle
48	364WDHL	Woods Hollow Shale
48	367ALST	Alstate Shale
48	367EBPH	Ellenburger Group and Post-Hickory Sandstone Cambrian

Rocks

48	367EBSS	Ellenburger Group and San Saba Aquifer
48	367ELBG	Ellenburger Group
48	367ELPS	El Paso Limestone
48	367GRMN	Gorman Formation
48	367HNCT	Honeycut Formation
48	367MRTN	Marathon Limestone
48	367ODVCL	Ordovician, Lower
48	367SDBC	Staendebach Member of Tanyard Formation
48	367TDGL	Threadgill Member of Tanyard Formation
48	367TNRD	Tanyard Formation
48	370CMBR	Cambrian System
48	371BLSS	Bliss Sandstone
48	371CMBRU	Cambrian, Upper
48	371CPMN	Cap Mountain Limestone Member of Riley Formation
48	371DGFL	Dagger Flat Sandstone
48	371GRNT	Granite Wash
48	371HCKR	Hickory Sandstone
48	371LNMN	Lion Mountain Sandstone
48	371MGCK	Morgan Creek Limestone Member of Wilberns Formation
48	371PHCK	Post-Hickory Sandstone Rocks
48	371PNPK	Point Peak Shale Member of Wilberns Formation
48	371RESH	Rocks Between Ellenberger-San Saba Aquifer and Hickory

Ss Mbr Riley Fm

48	371RILY	Riley Formation
48	371SNSB	San Saba Limestone
48	371WELG	Welge Sandstone
48	371WLBR	Wilberns Formation
48	400ALMR	Allamoore Limestone
48	400CRZM	Carrizo Mountain Schist
48	400GRNT	Precambrian Granite
48	400HZEL	Hazel Sandstone
48	400LLNO	Llano Series
48	400PCKD	Packsaddle Schist
48	400PCMB	Precambrian Erathem
48	400VNHR	Van Horn Sandstone

48	400VSPG	Valley Spring Gneiss
48	BASEMENT	Basement
48	BEDROCK	Bedrock
49	100ALVF	Alluvial Fan Deposits
49	100ALVM	Alluvium
49	100VLFL	Valley Fill
49	110ALVM	Quaternary Alluvium
49	110BSLT	Basalt
49	110CLVM	Colluvium, Quaternary (Holocene or Pleistocene, Unknown)
49	110COVM	Colluvium, Quaternary (Holocene or Pleistocene, Unknown)
49	110PTOD	Pediment, Terrace, and Other Deposits of Gravel and Sand
49	110QRNR	Quaternary System
49	110TRRCL	Terrace, Low, Deposits
49	110UCDD	Unconsolidated Deposits
49	110VLFL	Valley Fill
49	111ALVM	Holocene Alluvium
49	111BVRB	Beaver Basin Formation (Holocene-Pleistocene)
49	111CLVM	Colluvium
49	111GLDB	Gold Basin Formation
49	111HLCN	Holocene Series
49	111ISPG	Ice Springs Craters Flow
49	111LDLD	Landslide Deposits
49	112ALPN	Alpine Formation
49	112ALVM	Alluvium
49	112AXTL	Axtell Formation
49	112BNVL	Bonneville Formation of Lake Bonneville Group
49	112DRPR	Draper Formation of Lake Bonneville Group
49	112EGML	Eight Mile Dacite (Pleistocene-Pliocene)
49	112FMLB	Fumarole Butte Basalt
49	112HPLM	Harpole Mesa Formation
49	112LAKE	Lake Deposits
49	112LKBV	Lake Bonneville Group
49	112LLCD	Little Cottonwood Formation of Lake Bonneville Group
49	112OTSH	Outwash
49	112PCCK	Placer Creek Formation
49	112PLCN	Pleistocene Series
49	112PLSC	Pleistocene Series
49	112PROV	Provo Formation of Lake Bonneville Group
49	112PVNT	Pavant Flow
49	112SALK	Salt Creek Fanglomerate
49	112SLCK	Salt Creek Fanglomerate
49	112SVRV	Sevier River Formation (Pleistocene-Pliocene)
49	112TBCL	Tabernacle Flow
49	120BVHL	Beaver Hill Tuff of Mount Belknap Volcanic Group
49	120CBCK	Crab Creek Formation
49	120CCHL	Crescent Hill Rhyolite of Mount Belknap Volcanic Group
49	120CVMN	Cove Mountain Formation
49	120FLPM	Flattop Mountain Suite
49	120GLDM	Gold Mountain Tuff of Mount Belknap Volcanic Group
49	120GRHL	Gray Hills Arkose of Mount Belknap Volcanic Group
49	120HSLV	Horn Silver Andesite
49	120IDHL	Indian Hollow Rhyolite of Mount Belknap Volcanic Group
49	120IRSV	Intrusive Rocks
49	120JDCK	Judd Creek Latite

49	120KGMN	Keg Mountain Ignimbrites
49	120KGSP	Keg Spring Andesite, Latite
49	120KMBL	Kimberly Rhyolite of Mount Belknap Volcanic Group
49	120KOLB	Kolob Latite
49	120MAFC	Mafic Rocks
49	120MBKP	Mount Belknap Rhyolite of Mount Belknap Volcanic Group
49	120MFCV	Mafic Rocks
49	120MORN	Moroni Formation
49	120MPRG	Maple Ridge Porphyry
49	120PNVL	Pine Valley Latite
49	120RLCN	Raul Canyon Basalt
49	120RNCR	Rencher Formation
49	120SLCK	Shoal Creek Breccia
49	120STLY	Staley Pasture Tuff of Mount Belknap Volcanic Group
49	120TBBL	Tibble Formation
49	120TPZM	Topaz Mountain Rhyolite
49	120TRTR	Tertiary System
49	120VLCC	Volcanic Rocks
49	121BRPK	Browns Park Formation (Pliocene-Miocene)
49	121CCVL	Cache Valley Group (Pliocene-Miocene)
49	121CMPW	Camp Williams Unit of Salt Lake Formation
49	121CNDC	Cottonwood Canyon Formation (Pliocene-Miocene)
49	121CODC	Cottonwood Canyon Formation (Pliocene-Miocene)
49	121DRHL	Dry Hollow Formation
49	121GRPK	Geyser Peak Fanglomerate
49	121HRKR	Harkers Fanglomerate Member of Salt Lake Formation
49	121HSVL	Huntsville Fanglomerate
49	121JLTT	Joe Lott Tuff
49	121MDCK	Muddy Creek Formation
49	121MKCK	Mink Creek Conglomerate of Salt Lake Formation
49	121PATT	Payette Formation (Pliocene-Miocene)
49	121PLCN	Pliocene Series
49	121PRNP	Parunuweap Formation
49	121PYTT	Payette Formation (Pliocene-Miocene)
49	121RGPK	Roger Peak Basaltic Breccia
49	121SLLK	Salt Lake Formation
49	121TPZM	Topaz Mountain Tuff
49	122AXTL	Axtell Formation (Pleistocene-Pliocene)
49	122BLNC	Bullion Canyon Volcanics
49	122BRHD	Brian Head Formation
49	122BRVL	Bear Valley Formation
49	122DLPK	Delano Peak Latite Member of Bullion Canyon Volcanics
49	122JRDN	Jordan Narrows Unit of Salt Lake Formation (Miocene-Oligocene)
49	122MOCN	Miocene Series
49	122PGRC	Page Ranch Formation (Miocene-Oligocene)
49	122RCKC	Rock Candy Agglomerate and Latite of Bullion Canyon Volcanics
49	122TRVR	Traverse Volcanics of Salt Lake Formation (Miocene-Oligocene)
49	123BLDK	Bald Knoll Formation
49	123BLDL	Baldhills Member of Isom Formation
49	123CKCK	Chicken Creek Tuff (Oligocene-Eocene)
49	123CZHL	Crazy Hollow Formation

49	123DCRV	Duchesne River Formation
49	123FLCK	Fool Creek Conglomerate
49	123ISOM	Isom Formation
49	123NDRG	Needles Range Formation
49	123NRWD	Norwood Tuff of Salt Lake Formation
49	123OLGC	Oligocene Series
49	123PEOA	Peoa Tuff
49	123PRKC	Park City Volcanics
49	123QCHP	Quichapa Formation
49	123RSCN	Rose Canyon Latite-Andesite Volcanics
49	123SMNN	South Mountain Andesite Flows
49	123WRDS	Wanrhodes Volcanics
49	124APEX	Apex Conglomerate
49	124CLAR	Claron Limestone or Formation
49	124CLRN	Claron Limestone or Formation
49	124CLTN	Colton Formation
49	124DGCK	Douglas Creek Member of Green River Formation
49	124DPGV	Dipping Vat Formation
49	124EGLH	Eagle Hill Rhyolite
49	124EOCN	Eocene Series
49	124FCVC	Felsic Volcanic Rocks
49	124FLGF	Flagstaff Limestone (Eocene-Paleocene)
49	124FRNW	Fernow Quartz Latite
49	124GDGC	Garden Gulch Member of Green River Formation
49	124GDRC	Goldens Ranch Formation
49	124GRRV	Green River Formation
49	124HRBC	Horse Bench Sandstone Bed of Uinta Formation
49	124LGUN	Laguna Latite
49	124PCKK	Parachute Creek Member of Green River Formation
49	124PCKO	Packard Quartz Latite
49	124SGPK	Shaggy Peak Rhyolite
49	124TCKV	Tickville Rhyolite
49	124TPTN	Tipton Shale Member of Green River Formation
49	124UINT	Uinta Formation
49	124WSTC	Wasatch Formation
49	124WTSG	White Sage Formation
49	125CDBK	Cedar Breaks Formation
49	125EVAS	Evanston Formation (Paleocene-Upper Cretaceous)
49	125EVNS	Evanston Formation (Paleocene-Upper Cretaceous)
49	125FRUN	Fort Union Formation
49	125NRHR	North Horn Formation (Paleocene-Upper Cretaceous)
49	125PLCN	Paleocene Series
49	200BCKT	Beckwith Formation
49	200MNCS	Mancos Shale
49	200MSZC	Mesozoic Erathem
49	200SGCF	Straight Cliffs Sandstone
49	210CRCS	Cretaceous System
49	210DKOT	Dakota Sandstone or Formation or Group
49	210TSHR	Tushar Conglomerate
49	211ABRD	Aberdeen Sandstone Member of Blackhawk Formation
49	211ACRM	Anchor Mine Tongue of Mancos Shale
49	211ALVL	Allen Valley Shale of Indianola Group
49	211APRG	Asphalt Ridge Sandstone of Mesaverde Group
49	211BCKK	Blackhawk Formation of Mesaverde Group

49	211BCRK	Bennion Creek Formation
49	211BLCL	Bluecastle Sandstone Member
49	211BLGT	Blue Gate Shale Member of Mancos Shale
49	211BLIR	Blair Formation of Mesaverde Group
49	211BUCK	Buck Tongue of Mancos Shale
49	211CSLG	Castlegate Sandstone of Mesaverde Group
49	211CTCK	Currant Creek Formation
49	211ECCN	Echo Canyon Conglomerate
49	211EMRY	Emery Sandstone Member of Mancos Shale
49	211ERCS	Ericson Sandstone or Formation of Mesaverde Group
49	211FKVL	Funk Valley Formation of Indianola Group
49	211FRNR	Frontier Formation
49	211FRRN	Ferron Sandstone Member of Mancos Shale
49	211FRRR	Farrer Formation
49	211GRLC	Garley Canyon Sandstone Member of Mancos Shale
49	211HLRD	Hilliard Shale or Formation
49	211HNFR	Henefer Formation
49	211ISPG	Iron Springs Formation
49	211KPRS	Kaiparowits Formation
49	211MSUK	Masuk Member of Mancos Shale
49	211MVRD	Mesaverde Group
49	211NSLN	Neslen Formation of Mesaverde Group
49	211PCRV	Price River Formation of Mesaverde Group
49	211RKSP	Rock Springs Formation of Mesaverde Group
49	211SEGO	Sego Sandstone of Mesaverde Group
49	211SNPT	Sanpete Formation of Indianola Group
49	211SRPN	Star Point Sandstone of Mesaverde Group
49	211SXMC	Sixmile Canyon Formation of Indianola Group
49	211TNNK	Tununk Shale Member of Mancos Shale
49	211TRPC	Tropic Shale or Formation
49	211TSCR	Tuscher Formation of Mesaverde Group
49	211WHWP	Wahweap Sandstone
49	211WNSP	Wanship Formation
49	217ASPE	Aspen Shale Member of Mancos Shale
49	217ASPN	Aspen Shale Member of Mancos Shale
49	217BCKR	Buckhorn Conglomerate Member of Cedar Mountain Formation
49	217BRCN	Burro Canyon Formation
49	217BRRV	Bear River Formation
49	217CDRM	Cedar Mountain Formation
49	217CLVL	Cloverly Formation
49	217KLVN	Kelvin Formation
49	217MWRY	Mowry Shale
49	220GLEC	Glen Canyon Formation or Group (Jurassic-Triassic)
49	220GLNC	Glen Canyon Formation or Group (Jurassic-Triassic)
49	220JRSC	Jurassic System
49	220NVJO	Navajo Sandstone of Glen Canyon Group
49	221ARP	Arapien Shale
49	221BLFF	Bluff Sandstone of San Rafael Group
49	221BLUFS	Bluff Sandstone of San Rafael Group
49	221BRSE	Brushy Basin Member of Morrison Formation
49	221BRUB	Brushy Basin Member of Morrison Formation
49	221CRML	Carmel Formation of San Rafael Group
49	221CRTS	Curtis Formation of San Rafael Group
49	221CSPG	Cow Springs Sandstone

49	221DBDG	Dewey Bridge Member of Entrada Sandstone
49	221ENRD	Entrada Sandstone of San Rafael Group
49	221ERAD	Entrada Sandstone of San Rafael Group
49	221JCK	Junction Creek Sandstone of San Rafael Group
49	221MRSN	Morrison Formation
49	221PRSS	Preuss Sandstone or Redbeds
49	221RCPR	Recapture Member of Morrison Formation
49	221RECP	Recapture Member of Morrison Formation
49	221SALW	Salt Wash Member of Morrison Formation
49	221SLWS	Salt Wash Member of Morrison Formation
49	221SMVL	Summerville Formation of San Rafael Group
49	221SRFL	San Rafael Group
49	221STMP	Stump Sandstone
49	221TCRK	Twin Creek Limestone or Formation
49	221TGLC	Twist Gulch Member of Arapien Shale
49	221TVMC	Twelvemile Canyon Member of Arapien Shale
49	221WERC	Westwater Canyon Member of Morrison Formation
49	221WNSR	Winsor Formation of San Rafael Group
49	221WSRC	Westwater Canyon Member of Morrison Formation
49	227GLNC	Glen Canyon Group (Jurassic)
49	227NGGT	Nugget Sandstone
49	227NVJO	Navajo Sandstone (Jurassic)
49	230HSKN	Hoskinnini Member of Moenkopi Formation
49	230MNKP	Moenkopi Formation
49	230TDRF	Tenderfoot Member of Moenkopi Formation
49	230TRSC	Triassic System
49	231ANKR	Ankareh Shale, Formation, or Redbeds
49	231CCRK	Church Rock Member of Chinle Formation
49	231CDRC	Cedar City Tongue of Kayenta Formation
49	231CHNL	Chinle Formation
49	231DSCR	Dinosaur Canyon Member of Moenave Formation
49	231DSRC	Dinosaur Canyon Sandstone Member of Moenave Formation
49	231GRTR	Gartra Member of Chinle Formation
49	231KAYN	Kayenta Formation of Glen Canyon Group
49	231KYNT	Kayenta Formation of Glen Canyon Group
49	231LKCK	Lukachukai Member of Wingate Sandstone
49	231MBCK	Moss Back Member of Chinle Formation
49	231MNRB	Monitor Butte Member of Chinle Formation
49	231MONV	Moenave Formation of Glen Canyon Group
49	231PFDF	Petrified Forest Member of Chinle Formation
49	231SBKB	Shnabkaib Member of Moenkopi Formation
49	231SPGD	Springdale Sandstone Member of Moenave Formation
49	231SRMP	Shinarump Member of Chinle Formation
49	231SUCD	Suicide Grit of Ankareh Formation
49	231TPPM	Temple Mountain Member of Chinle Formation
49	231WIGT	Wingate Sandstone of Glen Canyon Group
49	231WMRP	Whitmore Point Member of Moenave Formation
49	231WNGT	Wingate Sandstone of Glen Canyon Group
49	234PRTT	Pariott Member of Moenkopi Formation
49	234SWMP	Sewemup Member of Moenkopi Formation
49	237AGTL	Agathla Sandstone
49	237ALBB	Ali Baba Member of Moenkopi Formation
49	237DNDY	Dinwoody Formation
49	237HRNG	Harrington Formation

49	237MGNY	Mahogany Formation
49	237SNBD	Sinbad Limestone Member of Moenkopi Formation
49	237TMPP	Timpoweap Member of Moenkopi Formation
49	237TYNS	Thaynes Limestone, Formation or Group
49	237VRGN	Virgin Limestone Member of Moenkopi Formation
49	237WDSD	Woodside Formation, Siltstone and/or Redbeds
49	300CRSL	Crystalline Rocks, Undifferentiated
49	300DVCK	Dove Creek Formation or Group
49	300MOLS	Molas Formation (Pennsylvanian-Mississippian)
49	300PLZC	Paleozoic Erathem
49	300RICO	Rico Formation
49	300SUPI	Supai Formation of Aubrey Group (Permian-Pennsylvanian)
49	300WLLS	Wells Formation (Permian-Pennsylvanian)
49	310ABRY	Aubrey Group (Permian-Pennsylvanian)
49	310ARCR	Arcturus Limestone or Formation
49	310ARCU	Arcturus Limestone or Formation
49	310BSPG	Bird Spring Formation (Permian-Pennsylvanian-Mississippian)
49	310CCNN	Coconino Sandstone of Aubrey Group
49	310CDRM	Cedar Mesa Sandstone Member of Cutler Formation
49	310CLVL	Callville Limestone (Permian-Pennsylvanian-Mississippian)
49	310COCNA	Coconino Sandstone of Aubrey Group
49	310CTLR	Cutler Formation
49	310DCLL	De Chelly Sandstone Member of Cutler Formation
49	310DMCK	Diamond Creek Sandstone
49	310GERR	Gerster Formation
49	310GRSR	Gerster Formation or Limestone of Park City Group
49	310HERM	Hermit Shale of Aubrey Group
49	310HLGT	Halgaito Tongue or Member of Cutler Formation
49	310HLGTC	Halgaito Tongue or Member of Cutler Formation
49	310HRMT	Hermit Shale of Aubrey Group
49	310INDC	Indian Canyon Formation of Park City Group
49	310KIBB	Kaibab Limestone
49	310KRKM	Kirkman Limestone
49	310LORY	Loray Formation
49	310OARKC	Organ Rock Tongue or Member of Cutler Formation
49	310OGRK	Organ Rock Tongue or Member of Cutler Formation
49	310OQRR	Oquirrh Group (Permian-Pennsylvanian-Mississippian)
49	310PKON	Pakoon Limestone
49	310PLMP	Plympton Formation of Park City Group
49	310PRKC	Park City Formation or Group
49	310PRMN	Permian System
49	310PSPR	Phosphoria Formation
49	310PYMP	Plympton Formation of Park City Group
49	310RICO	Rico Formation (Permian-Upper Pennsylvanian)
49	310RIPS	Riepe Spring Limestone
49	310RPSP	Riepe Spring Limestone
49	310RPTN	Riepetown Sandstone
49	310SUPI	Supai Formation of Aubrey Group (Permian-Pennsylvanian)
49	310TORP	Toroweap Formation of Aubrey Group
49	310TRWP	Toroweap Formation of Aubrey Group
49	310WEBR	Weber Quartzite or Sandstone (Permian-Pennsylvanian)
49	310WLLS	Wells Formation (Permian-Pennsylvanian)

49	310WTRM	White Rim Sandstone Member of Cutler Formation
49	317QNTF	Queantoweap Sandstone
49	319ELPC	Elephant Canyon Formation
49	320ELPN	Elephant Limestone
49	320ELY	Ely Limestone
49	320MNGC	Manning Canyon Shale (Pennsylvanian-Mississippian)
49	320MOLS	Molas Formation (Pennsylvanian-Mississippian)
49	320PSLV	Pennsylvanian System
49	320TLDN	Tilden Limestone Lentil
49	320TLSM	Talisman Quartzite
49	321BGMM	Bingham Mine Formation of Oquirrh Group
49	321HKTL	Honaker Trail Member of Hermosa Formation
49	321KLRC	Kessler Canyon Formation of Oquirrh Group
49	324ERDA	Erda Formation of Oquirrh Group
49	324HOGN	Hogan Formation
49	324HRMS	Hermosa Formation
49	324MRGN	Morgan Formation
49	324PRDX	Paradox Member of Hermosa Formation
49	327LKPN	Lake Point Limestone of Oquirrh Group
49	327PKRT	Pinkerton Trail Limestone Member of Hermosa Formation
49	327WSCN	West Canyon Limestone of Oquirrh Group
49	330BRZR	Brazer Limestone or Dolomite
49	330DSRT	Deseret Limestone
49	330LDVL	Leadville Limestone
49	330MDSN	Madison Group
49	330MSSP	Mississippian System
49	330RDLL	Redwall Limestone
49	330SSBR	Stansbury Formation (Mississippian-Devonian)
49	330TPCH	Topache Limestone (Mississippian-Devonian)
49	331CFDR	Chesterfield Range Group
49	331CNMN	Chainman Shale
49	331DGNT	Doughnut Formation
49	331DMPK	Diamond Peak Formation
49	331GRBL	Great Blue Limestone or Formation
49	331GRRV	Green Ravine Formation
49	331HMBG	Humbug Formation
49	331OCRM	Ochre Mountain Limestone
49	331WDMN	Woodman Formation
49	337FCVL	Fitchville Formation
49	337GRDS	Gardison Limestone
49	337JOAN	Joana Limestone
49	337LDGP	Lodgepole Limestone of Madison Group
49	337LTHM	Leatham Formation
49	337NRCN	Narrow Canyon Limestone (Lower Mississippian-Upper Devonian)
49	337PILT	Pilot Shale (Lower Mississippian-Upper Devonian)
49	337PLOT	Pilot Shale (Lower Mississippian-Upper Devonian)
49	337PNPK	Pinyon Peak Limestone (Lower Mississippian-Upper Devonian)
49	340BLBL	Bluebell Dolomite (Devonian-Silurian-Ordovician)
49	340DVNN	Devonian System
49	340KGSC	Kings Canyon Dolomite
49	340RDWR	Red Warrior Limestone (Devonian-Silurian-Ordovician)
49	341ANTH	Aneth Formation

49	341BRDN	Beirdneau Formation
49	341CVFR	Cove Fort Quartzite
49	341EGLM	Engelmann Formation (Upper-Middle Devonian)
49	341ELBR	Elbert Formation
49	341GLMT	Guilmette Formation
49	341GLSN	Gilson Dolomite
49	341GSHT	Goshoot Formation
49	341HNUR	Hanauer Formation
49	341HYRM	Hym Dolomite (Upper-Middle Devonian)
49	341JEFF	Jefferson Limestone, Dolomite, Formation or Group
49	341JFRS	Jefferson Limestone, Dolomite or Formation
49	341MWTZ	Mowitza Shale
49	341OURY	Ouray Limestone
49	341VCTR	Victoria Formation
49	344MDPK	Muddy Peak Limestone
49	344SEVY	Sevy Dolomite (Lower Devonian-Upper Silurian)
49	344SMNS	Simonson Dolomite
49	347SEVY	Sevy Dolomite (Lower Devonian-Upper Silurian)
49	350BVLK	Beaver Lake Dolomite (Silurian-Upper Ordovician)
49	350DCTN	Decathon Dolomite
49	350FLRD	Floride Dolomite
49	350JCKV	Jack Valley Formation
49	350LMMN	Lime Mountain Dolomite
49	350LNMN	Lone Mountain Dolomite
49	350SLRN	Silurian System
49	354BLHL	Bell Hill Dolomite
49	354HRST	Harrisite Dolomite
49	354LSSP	Lost Sheep Dolomite
49	354RBRM	Roberts Mountain Formation or Limestone
49	354ROBM	Roberts Mountain Formation or Limestone
49	354TRSD	Thursday Dolomite
49	360CKCR	Chokecherry Dolomite (Ordovician-Upper Cambrian)
49	360GRMP	Grampian Limestone (Ordovician-Cambrian)
49	360HOUS	House Limestone of Pogonip Group (Ordovician-Cambrian)
49	360ODVC	Ordovician System
49	360PGNP	Pogonip Group (Ordovician-Cambrian)
49	361EURK	Eureka Quartzite
49	361FSHV	Fish Haven Dolomite
49	364GADC	Garden City Formation or Limestone (Middle-Lower Ordovician)
49	364GRDC	Garden City Formation or Limestone (Middle-Lower Ordovician)
49	364KNSH	Kanosh Shale of Pogonip Group
49	364LHMN	Lehman Formation of Pogonip Group
49	364SNPK	Swan Peak Formation
49	367FLMR	Fillmore Limestone of Pogonip Group
49	367JUAB	Juab Limestone of Pogonip Group
49	367OPNG	Opohonga Limestone
49	367WHWH	Wahwah Limestone of Pogonip Group
49	370CMBR	Cambrian System
49	370MRHS	Morehouse Quartzite
49	370NUNN	Nounan Limestone (Upper-Middle Cambrian)
49	370PNVL	Pine Valley Quartzite
49	371AJAX	Ajax Dolomite

49	371CSPG	Corset Spring Shale
49	371DDBG	Dunderburg Shale
49	371DGRG	Dugway Ridge Dolomite
49	371FERA	Fera Limestone
49	371HCKS	Hicks Formation
49	371LAMB	Lamb Dolomite (Upper-Middle Cambrian)
49	371LODR	Lodore Formation or Shale
49	371LYNC	Lynch Dolomite (Upper-Middle Cambrian)
49	371NCPK	Notch Peak Limestone
49	371NUNN	Nounan Limestone (Upper-Middle Cambrian)
49	371OPEX	Opex Formation
49	371ORR	Orr Formation
49	371SCRL	St Charles Limestone
49	371SRGC	Straight Canyon Formation
49	374ABMB	Abercrombie Formation
49	374BCKM	Blacksmith Dolomite or Limestone
49	374BIGM	Brigham Quartzite (Middle Cambrian-Upper Precambrian)
49	374BLBD	Bluebird Dolomite
49	374BLMG	Bloomington Formation
49	374BRGM	Brigham Quartzite (Middle Cambrian-Upper Precambrian)
49	374BWMN	Bowman Limestone
49	374CLCN	Cole Canyon Dolomite
49	374CSLM	Chisholm Shale
49	374DGMR	Dagmar Dolomite
49	374DOME	Dome Limestone
49	374FDGL	Fandangle Limestone
49	374HRKM	Herkimer Limestone
49	374HRMN	Hartmann Limestone
49	374HWLL	Howell Formation
49	374LNDN	Lyndon Limestone
49	374LNGS	Langston Limestone
49	374MRJM	Marjum Limestone
49	374MXFD	Maxfield Limestone
49	374OPHR	Ophir Formation or Shale
49	374PIOC	Pioche Shale (Middle-Lower Cambrian)
49	374POCH	Pioche Shale (Middle-Lower Cambrian)
49	374SDCL	Shadscale Formation
49	374SWSY	Swasey Formation
49	374TNTC	Tintic Quartzite (Middle-Lower Cambrian)
49	374TRLR	Trailer Limestone
49	374TRPP	Trippe Limestone
49	374TTNC	Teutonic Limestone
49	374UTE	Ute Limestone
49	374WEKS	Weeks Limestone (Upper-Middle Cambrian)
49	374WHLR	Wheeler Formation
49	374WRLD	Whirlwind Formation
49	374YGPK	Young Peak Dolomite
49	377BSBY	Busby Quartzite
49	377CBIN	Cabin Shale
49	377POPM	Prospect Mountain Quartzite (Lower Cambrian-Upper Precambrian)
49	377PPCM	Prospect Mountain Quartzite (Lower Cambrian-Upper Precambrian)
49	400ABRG	Albion Range Group

49	400ASCN	Auts Canyon Formation of Sheeprock Group
49	400BGCD	Big Cottonwood Formation
49	400BLDM	Bald Mountain Formation
49	400CRCK	Green Creek Complex
49	400EKKR	Ekker Formation of Sheeprock Group
49	400FMGC	Farmington Canyon Complex
49	400GECK	Green Creek Complex
49	400HRSC	Horse Canyon Formation
49	400LLWL	Little Willow Series
49	400MCKK	Mc Coy Creek Group
49	400MLFK	Mineral Fork Tillite
49	400MUTL	Mutual Formation
49	400PCMB	Precambrian Erathem
49	400RDCK	Red Creek Quartzite
49	400RDPN	Red Pine Shale of Uinta Mountain Group
49	400SPCK	Sheeprock Group or Series
49	400UNMN	Uinta Mountain Group
49	400WLDC	Wildhorse Canyon Series
49	BASEMENT	Basement
49	BEDROCK	Bedrock
50	111ALVM	Holocene Alluvium
50	111BECH	Beach Deposits
50	111CLVM	Colluvium
50	111EOLN	Eolian Deposits
50	111FILL	Fill
50	111MRIN	Marine Deposits
50	111SDMN	Sediments, Undifferentiated
50	111SWMP	Swamp Deposits
50	112DELT	Delta Deposits
50	112ICCC	Ice-Contact Deposits, Including Eskers and Kames
50	112ICCC	Ice-Contact Deposits, Including Eskers and Kames
50	112LCSR	Lacustrine Deposits
50	112MORN	Moraine Deposits, Except Ground Moraine and Drumlins
50	112MORND	Moraine Deposits, Except Ground Moraine and Drumlins
50	112MRIN	Marine Deposits
50	112OTSH	Outwash
50	112SRFD	Stratified Deposits, Undifferentiated
50	112TILL	Till
50	120SDMS	Sediments
50	200CRSL	Crystalline Rocks
50	210SDMS	Sediments, Undifferentiated
50	230IGNSE	Igneous Rocks, Extrusive
50	230IGNSI	Igneous Rocks, Intrusive
50	230SDMR	Triassic Sedimentary Rocks
50	231EBRL	East Berlin Formation
50	231HLYK	Holyoke Basalt
50	231HMPD	Hampden Basalt
50	231NHVN	New Haven Formation
50	231PRLD	Portland Formation
50	300CRSL	Crystalline Rocks, Undifferentiated
50	300CRSLC	Crystalline Rocks, Carbonate
50	300CRSLN	Crystalline Rocks, Noncarbonate
50	320CRSL	Crystalline Rocks
50	320SDMR	Sedimentary Rocks

50	330CRSL	Crystalline Rocks
50	330SDMR	Sedimentary Rocks
50	340CRSL	Crystalline Rocks, Undifferentiated
50	340CRSLC	Crystalline Rocks, Carbonate
50	340CRSLN	Crystalline Rocks, Noncarbonate
50	350CRSL	Crystalline Rocks, Undifferentiated
50	350CRSLC	Crystalline Rocks, Carbonate
50	350CRSLN	Crystalline Rocks, Noncarbonate
50	360CRSL	Crystalline Rocks, Undifferentiated
50	360CRSLC	Crystalline Rocks, Carbonate
50	360CRSLN	Crystalline Rocks, Noncarbonate
50	370CRSL	Crystalline Rocks, Undifferentiated
50	370CRSLC	Crystalline Rocks, Carbonate
50	370CRSLN	Crystalline Rocks, Noncarbonate
50	400CRSL	Crystalline Rocks, Undifferentiated
50	400CRSLC	Crystalline Rocks, Carbonate
50	400CRSLN	Crystalline Rocks, Noncarbonate
50	BASEMENT	Basement
50	BEDROCK	Bedrock
51	000AARF	Amphibolite and Amphibolite Rich Foliate
51	000CLMB	Columbia Granite
51	000EVRN	Everona Limestone
51	000GHBG	Granite and Hornblend Gneiss
51	000GRGS	Granite Gneiss
51	000GRNT	Granite
51	000GVCC	Greenstone Volcanics
51	000HGGT	Hornblend Gabbro and Gneiss Talc
51	000IRSV	Intrusive Rocks
51	000LMMB	Limestone and Marble
51	000MMPS	Metamorphosed Sedimentary Rocks
51	000MPVS	Metamorphosed Volcanic and Sedimentary Rocks
51	000QRZD	Quartz Diorite
51	000SAND	Sand (Unknown Age)
51	100CNZC	Cenozoic Erathem
51	110QRNR	Quaternary System
51	111DMMP	Dismal Swamp Peat
51	111HLCN	Holocene Series
51	111SDMN	Sediments, Undifferentiated
51	112BCCL	Bacons Castle Formation
51	112CLMB	Columbia Group
51	112GBDG	Great Bridge Formation
51	112KPVL	Kempsville Formation
51	112LDBG	Londonbridge Formation
51	112MORG	Moorings Unit
51	112NFLK	Norfolk Formation
51	112PLSC	Pleistocene Series
51	112SDBG	Sandbridge Formation
51	112SDLY	Sedley Formation
51	112WDSR	Windsor Formation
51	120TRTR	Tertiary System
51	121CSPKU	Upper Chesapeake Group
51	121PCMC	Pliocene-Miocene Series
51	121PLCN	Pliocene Series
51	122CLVR	Calvert Formation

51	122CPNK	Choptank Formation
51	122CSPK	Chesapeake Group
51	122CSPKL	Lower Chesapeake Group
51	122MOCN	Miocene Series
51	122SMRS	St Marys Formation
51	122YRKN	Yorktown Formation
51	123OLGC	Oligocene Series
51	124CCKM	Chickahominy Formation
51	124ECPC	Eocene-Paleocene Series
51	124EOCN	Eocene Series
51	124MRLB	Marlboro Clay
51	124NNJM	Nanjemoy Formation
51	124PMNK	Pamunkey Group
51	125AQUI	Aquia Formation
51	125BRGS	Brightseat Formation
51	125MTPN	Mattaponi Formation
51	125PLCN	Paleocene Series
51	200MSZC	Mesozoic Erathem
51	210CRCS	Cretaceous System
51	211CRAQU	Upper Cretaceous Aquifer System
51	211CRCSU	Upper Cretaceous Series
51	217CRCSL	Lower Cretaceous Series
51	217POMC	Potomac Group
51	217PPSC	Patapsco Formation
51	217PTMC	Potomac Group
51	217PTXN	Patuxent Formation
51	220JRSC	Jurassic System
51	230CDRF	Cedar Forest Formation
51	230DRFK	Dry Fork Formation
51	230IGNS	Igneous Rocks
51	230LKVL	Leaksville Formation
51	230TRSC	Triassic System
51	231BLBF	Balls Bluff Formation
51	231BLRN	Bull Run Formation
51	231MNSS	Manassas Formation
51	231NWRK	Newark Group
51	231ORDL	Otterdale Sandstone
51	231TRSCU	Upper Triassic Series
51	231VINT	Vinta Formation
51	300AGBK	Alligator Back Formation, Finely Laminated Gneiss (Main Part)
51	300AGBKS	Alligator Back Formation, Mica Schist
51	300AGRKA	Alligator Back Formation, Amphibolite and Greenstone
51	300ARCH	Arch Marble
51	300BGVL	Big Valley Formation
51	300CKV	Cockeysville Marble
51	300CDLR	Candler Formation
51	300CPMC	Chopawamsic Formation
51	300EVNG	Evington Group
51	300JSHU	Joshua Schist
51	300MNAS	Mount Athos Formation
51	300PLIR	Pelier Schist
51	300PLZC	Paleozoic Erathem
51	300PRBG	Petersburg Granite

51	300PZPB	Paleozoic-Precambrian Erathems
51	300SNGP	Stoney Gap Sandstone Member of Hinton Formation
51	300SPCK	Slippery Creek Greenstone
51	300UFRK	Ultramafic Rock, Clorite-Tremolite, Magnetite Schist
51	300WICKS	Wissahickon Schist
51	300WSCK	Wissahickon Schist
51	310PRMN	Permian System
51	320PSLV	Pennsylvanian System
51	324GDVN	Gladeville Sandstone and Norton Formation
51	324GLDV	Gladeville Sandstone
51	324HRLN	Harlan Group
51	324NRTN	Norton Formation
51	324PRBG	Petersburg Formation
51	324PSLVM	Middle Pennsylvanian Series
51	324WISE	Wise Formation
51	327LEE	Lee Formation
51	327PSLVL	Lower Pennsylvanian Series
51	330CVCK	Cove Creek Limestone
51	330GRGR	Grainger Formation
51	330MCCD	Maccrady Shale
51	330MCCP	Mac Crady and Price Formation
51	330MSSP	Mississippian System
51	330NWMN	Newman Limestone
51	330PRIC	Price Formation
51	331BFGB	Bluefield Formation and Greenbrier Limestone
51	331BLFD	Bluefield Formation
51	331BLPR	Bluestone and Princeton Formations
51	331BLSN	Bluestone Formation
51	331FIDO	Fido Sandstone
51	331GRBR	Greenbrier Limestone
51	331HNTN	Hinton Formation
51	331LLVL	Little Valley Limestone
51	331MSSPU	Mississippian, Upper
51	331PENG	Pennington Group
51	331PNNG	Pennington Group
51	331PRNS	Prinston Formation
51	337MPDV	Mississippian-Devonian System
51	337MSSPL	Mississippian, Lower
51	337POCN	Pocono Formation
51	340DVNN	Devonian System
51	340HRVL	Huntermville Chert
51	341BRLR	Brallier Formation
51	341CMNG	Chemung Formation
51	341DVNNU	Devonian, Upper
51	341GENS	Genesee Formation
51	341HMPR	Hampshire Formation
51	341MLBR	Millboro Shale
51	344DVNML	Middle-Lower Devonian Series
51	344DVNNM	Devonian, Middle
51	344HAML	Hamilton Formation
51	344HMLN	Hamilton Formation
51	344MRCL	Marcellus Shale
51	344NDMR	Needmore Shale
51	344ONDG	Onondaga Limestone

51	347BCRF	Becraft Limestone
51	347CMNS	Coeymans Limestone
51	347DVNNL	Devonian, Lower
51	347DVSL	Devonian-Silurian Systems
51	347HDBG	Helderberg Group
51	347KYSR	Keyser Limestone
51	347LKCK	Licking Creek Limestone
51	347NSCD	New Scotland Limestone
51	347RDGL	Ridgeley Sandstone
51	350SLRN	Silurian System
51	350SOVC	Silurian-Ordovician Systems
51	351SLRNU	Silurian, Upper
51	351TNLY	Tonoloway Limestone
51	351WLCK	Wills Creek Formation
51	352BMBG	Bloomsburg Formation
51	352CYUG	Cayuga Group
51	352HCK	Hancock Dolomite
51	354CLNC	Clinch Sandstone
51	354CLNN	Clinton Formation
51	354CLTC	Clinton and Tuscarora Formations
51	354MCKZ	Mc Kenzie Formation
51	354MSNN	Massanutten Sandstone
51	354SLRNM	Silurian, Middle
51	357SLRNL	Silurian, Lower
51	357TCRR	Tuscarora Sandstone
51	360ODVC	Ordovician System
51	361ARVN	Arvonnia Formation
51	361JUNT	Juniata Formation
51	361MRBG	Martinsburg Shale
51	361ODVCU	Ordovician, Upper
51	361ODVUM	Upper-Middle Ordovician Series
51	361OSWG	Oswego Sandstone
51	361QNTC	Quantico Slate
51	361SQTC	Sequatchie Formation
51	364BCKF	Blackford Formation
51	364BNBL	Benbolt Limestone
51	364BNHR	Ben Hur Limestone
51	364BOWN	Bowen Limestone
51	364CLRS	Collierstown Limestone
51	364DOT	Dot Limestone
51	364EDBG	Edinburg Formation
51	364EFFN	Effna Limestone
51	364EGLS	Eggleston Formation
51	364ELWY	Elway Limestone
51	364FVOK	Five Oak Limestone
51	364GRTN	Gratton Limestone
51	364HCBG	Hurricane Bridge Limestone
51	364HDCK	Hardy Creek Limestone
51	364LCLR	Lincolnshire Formation
51	364LRCH	Lurich Formation
51	364MCGL	Mc Glone Formation
51	364MCSN	Moccasin Formation
51	364MRCK	Martin Creek Limestone
51	364NMRK	New Market Limestone

51	364ODVCM	Ordovician, Middle
51	364ORND	Oranda Formation
51	364POTT	Poteet Formation
51	364RBCP	Rob Camp Limestone
51	364RCKD	Rockdell Limestone
51	364RYCV	Rye Cove Formation
51	364TRNN	Trenton Limestone
51	364WDWY	Woodway Limestone
51	364WLCK	Whistlecreek Limestone
51	364WRDL	Wardell Limestone
51	364WTTN	Witten Limestone
51	367BKCP	Beekmantown and Chepultepec Formations
51	367BKMN	Beekmantown Group
51	367BLFN	Bellefonte Formation
51	367CPPC	Chepultepec Dolomite
51	367KNOX	Knox Dolomite
51	367MKLV	Mascot, Kingsport and Longview Formations
51	367NTTN	Nittany Formation
51	367ODVCL	Ordovician, Lower
51	367OVCB	Ordovician-Cambrian Systems
51	370CMBR	Cambrian System
51	370CNSG	Coansauga Group
51	371CBBRU	Upper Cambrian Series
51	371CCCG	Conococheague Formation
51	371CCCGC	Onococheague Group
51	371CCCGG	Conococheague Group
51	371CMBRU	Cambrian, Upper
51	371CNSG	Conasauga Group
51	371COSG	Conasauga Group
51	371CPRG	Copper Ridge Dolomite
51	371ELBK	Elbrook Formation
51	371MADV	Maynardville Formation
51	371MDVL	Maynardville Formation
51	371NCCK	Nolichucky Shale
51	374CMBRM	Cambrian, Middle
51	374HNKR	Honaker Dolomite
51	374MRVL	Maryville Limestone
51	374PPKV	Pumpkin Valley Shale
51	374RGVL	Rogersville Shale
51	374RLDG	Rutledge Limestone
51	377CHLH	Chilhowee Group
51	377CMBRL	Lower Cambrian Series
51	377ERWN	Erwin Formation
51	377FDCK	Frederick Limestone
51	377HMPN	Hampton Shale or Formation
51	377LUDN	Loudoun Formation
51	377ROME	Rome Formation
51	377SHDY	Shady Dolomite
51	377UNCO	Unicoi Formation
51	377WVRN	Weverton Formation
51	400ALUM	Alum Phillite
51	400ASHE	Ashe Formation, Thinly Layered Gneiss (Main Part)
51	400ASHEA	Ashe Formation, Amphibolite
51	400BVCK	Beaverdam Creek Augen Gneiss

51	400CLVL	Charlottesville Formation
51	400CMRS	Comers Granite Gneiss
51	400CRVL	Carsonville Granite
51	400CTCN	Catoctin Formation
51	400CTRN	Cattron Gneiss
51	400GRAS	Grayson Granodiorite Gneiss
51	400GRGS	Granite Gneiss
51	400GRSN	Grayson Granodiorite Gneiss
51	400LCBG	Lynchburg Formation
51	400LLRV	Little River Gneiss of Dietrich, of Elk Park Plutonic
Group		
51	400LTRD	Leatherwood Granite
51	400LVGS	Lovingston Formation
51	400MLRS	Melrose Granite
51	400MMRV	Mechums River Formation
51	400MONT	Moneta Gneiss
51	400MRGR	Mount Rogers Volcanic Group
51	400MRHL	Marshall Formation
51	400ODRG	Old Rag Formation
51	400PCMB	Precambrian Erathem
51	400PDLR	Pedlar Formation
51	400RBRV	Robertson River Formation
51	400RCKF	Rockfish Conglomerate
51	400RDOK	Redoak Granite
51	400RSLD	Roseland Anorthosite
51	400SDDL	Saddle Gneiss
51	400SFRN	Swift Run Formation
51	400SHOL	Shoal Gneiss
51	400SLTN	Shelton Granite Gneiss
51	400SPRK	Striped Rock Granite
51	400VGBG	Virginia Blueridge Complex
51	400VRGL	Virgilina Group
51	400WLLS	Willis Phyllite
51	BASEMENT	Basement
51	BEDROCK	Bedrock
53	000FILL	Unclassified Fill
53	000HKNS	Hawkins Formation
53	000LCHR	Leecher Metamorphics
53	000MNSR	Mount Stuart Granodiorite
53	000MTHW	Methow Gneiss
53	000NWKM	Newaukum Series
53	000ORCS	Orcas Group
53	000OVBD	Unclassified Overburden
53	000PSSN	Peshastin Formation
53	000SPCK	Sheep Creek Conglomerate
53	000TLBK	Turtleback Complex
53	100GVWVO	Gravel of Walla Walla, Older
53	100PRPH	Plio-Pleistocene, Post-Ringold-Pre-Hanford Formations
53	110ALVM	Quaternary Alluvium
53	110BSLT	Basalt
53	110CLVM	Colluvium
53	110DGHD	Dogs Head Andesites
53	110DRML	Drumheller Silts
53	110DUNE	Dune Sand

53	110GCPK	Glacier Peak Volcanics
53	110GRCK	Goat Rock Pyroclastic Deposits
53	110LOSS	Loess
53	110MBKR	Mount Baker Lava
53	110MNRR	Mount Rainier Lavas
53	110MSHS	Mount St Helens Lavas
53	111ALVM	Holocene Alluvium
53	111CLWD	Colwood Formation
53	111DUNE	Dune Sand
53	111ELCR	Electron Mudflow
53	111OSCL	Osceola Mudflow
53	112ADML	Admiralty Drift or Clay
53	112ALVM	Alluvium
53	112ARLG	Arlington Gravel Member of Vashon Drift
53	112BRNG	Boring Lava
53	112CLVM	Colluvium
53	112CLVS	Colvos Sand
53	112COLV	Colvos Sand
53	112CRSN	Carson Lava
53	112CWCH	Cowiche Gravel
53	112EPRC	Esperance Sand Member of Vashon Drift
53	112EVCK	Evans Creek Drift of Fraser Glaciation
53	112EVRS	Everson Interstade of Fraser Glaciation
53	112FLVC	Fluviolacustrine Deposits
53	112GALE	Gale Sand
53	112GLCV	Glacio-Fluviatile
53	112KTSP	Kitsap Formation
53	112LCSR	Lacustrine Deposits
53	112LGHL	Logan Hill Formation
53	112LLCK	Lily Creek Formation
53	112LWTN	Lawton Clay Member of Vashon Drift
53	112MDLD	Midland Sand
53	112MNRR	Mount Rainier Volcanics
53	112MRIN	Marine Deposits
53	112MRVL	Marysville Sand Member of Vashon Drift
53	112NPLM	Nespelem Silt
53	112OKNG	Okanogan Till
53	112ORNG	Orting Drift or Glaciation
53	112PCCK	Pilchuck Clay Member of Vashon Drift
53	112PICK	Pilchuck Clay Member of Vashon Drift
53	112PLLP	Puyallup Formation or Interglaciation
53	112PLUS	Palouse Formation
53	112PSCO	Pasco Gravels
53	112QUTS	Queets Beds
53	112RGLD	Ringold Formation
53	112SASP	Salmon Springs Drift
53	112SCBD	Scabland Flood Deposits
53	112SKKM	Skokomish Gravel
53	112SLCM	Steilacoom Gravel
53	112SLGM	Stillaguamish Sand Member of Vashon Drift
53	112SSPG	Salmon Springs Drift
53	112STCK	Stuck Drift
53	112STSP	Satsop Formation
53	112SUMS	Sumas Drift of Fraser Glaciation

53	112TCHT	Touchet Beds
53	112TFLS	Tiflis Member of Wahluke Formation
53	112THLH	Taholah Formation
53	112TILL	Till
53	112TRHL	Trout Hill Lava Flows
53	112TRRC	Terrace Deposits
53	112TTON	Tieton Andesite
53	112VSHN	Vashon Drift of Fraser Glaciation
53	112WGHL	Wingate Hill Drift
53	112WHLK	Wahluke Formation
53	112WLLP	Willapa Clays
53	120CAMS	Camas Basalt
53	120CDRL	Cathedral Granite
53	120CLDP	Cloudy Pass Diorite
53	120KRGR	Kruger Alkaline Syenites
53	120PLLK	Phalen Lake Volcanics
53	120PLMR	Palmer Volcanics
53	120RSLD	Rossland Group
53	120SDCK	Soleduck Formation
53	120SPRD	Sheppard Granite
53	120TIGR	Tiger Formation
53	120TSSR	Twin Sisters Dunite
53	120UDRD	Underwood Lava
53	121BVRL	Beverly Member of Ellensburg Formation
53	121ELPM	Elephant Mountain Flow
53	121HARO	Haro Formation
53	121HOKO	Hoko Formation
53	121HWSN	Howson Andesite
53	121MNSN	Montesano Formation
53	121QLLT	Quillayute Formation
53	121QNLT	Quinault Formation
53	121RFRV	Raft River Formation
53	121RGLD	Undifferentiated Ringold Formation
53	121RGLDB	Basal Part of Ringold Formation
53	121RGLDL	Lower Part of Ringold Formation
53	121RGLDM	Middle Part of Ringold Formation
53	121RGLDU	Upper Part of Ringold Formation
53	121SELH	Selah Tuff Member of Ellensburg Formation
53	121SGLF	Sugarloaf Andesite
53	121SLBT	Selah Butte Flow
53	121SMMT	Summit Conglomerate
53	121SNPS	Snipes Conglomerates
53	121SQLM	Snoqualmie Granodiorite
53	121TRDL	Troutdale Formation
53	121UDDM	Underwood Mountain Lava
53	122BRNP	Browns Point Formation
53	122CBRV	Columbia River Basalt Group
53	122CLLM	Clallam Formation
53	122DGLC	Douglas Canyon Formation
53	122EGCK	Eagle Creek Formation
53	122ELBG	Ellensburg Formation
53	122EMCL	Enumclaw Volcanic Series
53	122FFPK	Fifes Peak Formation
53	122FSPG	Frenchman Springs Member of Wanapum Basalt Formation

53	122GDRD	Grande Ronde Basalt Formation
53	122HMBF	Hammer Bluff Formation
53	122HOH	Hoh Formation
53	122HWRD	Howard Arkose
53	122IMNH	Imnaha Basalt of Columbia River Basalt Group
53	122LATH	Latah Formation
53	122LCCK	Lincoln Creek Formation
53	122LKVG	Lake Vantage Lavas
53	122MBTN	Mabton Member (Informal Usage) of Ellensburg Formation
53	122MSHL	Mashel Formation
53	122OCDP	Orchard Point Conglomerate of Blakeley Formation
53	122PCGG	Picture Gorge Basalt of Columbia River Basalt Group
53	122PDOV	Pend Oreille Valley Andesite
53	122PRPD	Priest Rapids Member of Wanapum Basalt Formation
53	122QNCY	Quincy Diatomite Bed of Priest Rapids Mbr of Yakima
Basalt		
53	122ROZA	Roza Member of Wanapum Basalt Formation
53	122RSRP	Restoration Point Member of Blakeley Formation
53	122SDLM	Saddle Mountains Basalt Formation
53	122SELH	Selah Member (Informal Usage) of Ellensburg Formation
53	122SKMN	Skamania Volcanic Series
53	122SLVS	Silver Star Granodiorite
53	122SQCK	Squaw Creek Diatomite Bed of Ellensburg Formation
53	122SVRG	Steves Ridge Formation
53	122TNUM	Taneum Andesite
53	122VNTG	Vantage Member of Ellensburg Formation
53	122WIDX	West Index Andesitic Series
53	122WNPM	Wanapum Basalt Formation
53	122YKIM	Yakima Basalt Subgroup of Columbia River Basalt Group
53	123BLKL	Blakeley Formation
53	123GROM	Gerome Volcanics
53	123GRRC	Gries Ranch Formation
53	123KDKM	Klondike Mountain Formation
53	123LNCL	Lincoln Formation
53	123MRSN	Marrowstone Shale
53	123OPCS	Ohanapecosh Formation
53	123PRTR	Porter Shale
53	123PUGT	Puget Group
53	123QMPR	Quimper Sandstone
53	123RNTN	Renton Formation of Puget Group
53	123RSRP	Restoration Point Horizon
53	123SKCK	Skate Creek Laharic Breccia
53	123STTL	Seattle Formation
53	123TKWL	Tukwila Formation of Puget Group
53	123TMTB	Tom Thumb Tuff Member of Klondike Mountain Formation
53	123TNSD	Townsend Shale
53	123TRVR	Twin River Formation
53	123TUTL	Toutle Formation
53	123WKKM	Wahkiakum Formation
53	124BLGM	Bellingham Beds
53	124BNDR	Boundary Shale
53	124BYNE	Bayne Series
53	124CBRV	Carbon River Coal Series
53	124CCKN	Chuckanut Formation

53	124CHLS	Chehalis Sandstone
53	124CLTZ	Cowlitz Formation
53	124CRBD	Carbonado Formation of Puget Group
53	124CRSC	Crescent Formation
53	124EVCK	Evans Creek Coal Series
53	124FRFX	Fairfax Coal Bearing Rocks
53	124FRKL	Franklin Sandstone
53	124FRKLS	Franklin Series
53	124GUYE	Guye Formation
53	124KBHL	Knob Hill Andestie
53	124KCSS	Kachess Rhyolite
53	124KMMR	Kummer Series
53	124KMMRF	Kummer Formation
53	124LYRE	Lyre Formation
53	124MCIS	Mc Intosh Formation
53	124MCSN	Metchosin Volcanic Series
53	124MLMN	Melmont Coal Bearing Rocks
53	124MNSS	Manastash Formation
53	124NCHS	Naches Formation
53	124NRCF	Northcraft Formation of Puget Group
53	124NTPC	Natapoc Formation
53	124OBCK	Obrien Creek Formation
53	124OLQU	Olequa Formation
53	124OQCK	Olequa Creek Member of Cowlitz Formation
53	124PELL	Pe Ell Volcanics Member of Cowlitz Formation
53	124PPNC	Pipestone Canyon Formation
53	124PUYR	Puyer Formation
53	124RGRV	Raging River Formation
53	124RSLN	Roslyn Formation
53	124SCCK	Scatter Creek Rhyodacite or Formation
53	124SKKK	Skookumchuck Formation
53	124SLCK	Stillwater Creek Member of Cowlitz Formation
53	124SNPL	Sanpoil Volcanics
53	124SPKN	Spiketon Formation of Puget Group
53	124SPRR	South Prairie Formation
53	124SUMS	Sumas Shale In Chuckanut Formation
53	124SWUK	Swauk Formation
53	124TGRM	Tiger Mountain Formation of Puget Group
53	124TNWY	Teaaway Basalt
53	124WLKS	Wilkeson Coal Series
53	125EGLE	Eagle Greenschist
53	125ESTN	Easton Schist
53	200JUMB	Jumbo Volcanics
53	200KRGM	Kruger Mountain Malignite
53	200OSYS	Osoyoos Granodiorite
53	200WSKM	Whiskey Mountain Granodiorite
53	210BGCL	Bogachiel Formation
53	210CLEM	Cle Elum Formation
53	210LCRV	Leech River Group
53	210LNLK	Loon Lake Granite
53	210VGRG	Virginian Ridge Formation
53	211MGPK	Midnight Peak Formation
53	211WNRP	Winthrop Sandstone
53	217PSTN	Pasayten Formation

53	217SPDN	Spieden Formation
53	220EGCF	Eagle Cliff Porphyrite
53	220INDX	Index Granodiorite
53	220NWBY	Newby Formation
53	220RMML	Rommel Granodiorite
53	220TYE	Tye Granite
53	221CHLN	Chelan Granodiorite
53	221MTOR	Meteor Granodiorite
53	221SKSN	Shuksan Formation
53	230COVD	Covada Group
53	230FDLG	Fidalgo Formation
53	230VNTR	Ventura Formation
53	300CLGS	Clugston Limestone
53	300DRLK	Deer Lake Argillite
53	300EGLM	Eagle Mountain Quartzite
53	300FCRK	Fish Creek Argillite
53	300LDPN	Lead Point Argillite
53	300SNJN	San Juan Series
53	310GRFL	Granite Falls Limestone
53	320CHPKB	Chopaka Basic Intrusives
53	320CHPKS	Chopaka Schist
53	320GNPK	Gunn Peak Formation
53	320HZMN	Hozomeen Series
53	320KRGR	Kruger Schist
53	330CLVL	Colville Quartzite
53	331CHLH	Chewelah Argillite
53	350SVNS	Stevens Series
53	360LDBR	Ledbetter Slate
53	360MLNY	Maloney Metamorphic Series
53	370BCKK	Buckskin Schist
53	370BNDR	Boundary Argillite
53	370CDCK	Cedar Creek Argillite
53	370CHKM	Chiwaukum Schist
53	370DPLK	Deep Lake Argillite
53	370FRNW	Fernow Gneiss
53	370GYPS	Gypsy Quartzite
53	370REVS	Reeves Limestone Member of Maitlen Phyllite
53	370SWKN	Swakane Biotite Gneiss
53	370TONG	Tonga Formation
53	374MSSN	Mission Argillite
53	374MTLN	Metaline Limestone or Formation
53	374NRPR	Northport Limestone
53	374RBCK	Republican Creek Limestone
53	374RDTP	Red Top Limestone
53	377ADDY	Addy Quartzite
53	377MTLN	Maitlen Phyllite
53	377ODDM	Old Dominion Limestone
53	400BDLK	Bead Lake Formation
53	400BFHP	Buffalo Hump Formation of Deer Trail Group
53	400DRTL	Deer Trail Group
53	400EDNA	Edna Dolomite of Deer Trail Group
53	400HCKB	Huckleberry Formation
53	400LEOL	Leola Volcanics
53	400MCHL	Mc Hale Slate of Deer Trail Group

53	400MNHL	Moon Hill Quartzite Member of Skookum Formation
53	400MRDG	Martin Ridge Schist
53	400MRSL	Marshall Diorite
53	400NONM	No Name Argillite
53	400NPRT	Newport Group
53	400ORNT	Orient Gneiss
53	400RBBN	Ribbon Gneiss
53	400SDRF	Shedroof Conglomerate
53	400SKKM	Skookum Formation
53	400SSGR	Stensgar Dolomite of Deer Trail Group
53	400TOGO	Togo Formation of Deer Trail Group
53	BASEMENT	Basement
53	BEDROCK	Bedrock
54	100CNZC	Cenozoic Erathem
54	110QRNR	Quaternary System
54	111ALVM	Holocene Alluvium
54	111HLCN	Holocene Series
54	200MSZC	Mesozoic Erathem
54	230IRSV	Intrusive Rocks
54	230TRSC	Triassic System
54	300PLZC	Paleozoic Erathem
54	310PRMN	Permian System
54	317DKRD	Dunkard Group
54	317PRMNL	Lower Permian Series
54	320PSLV	Pennsylvanian System
54	321CNMG	Conemaugh Formation
54	321MNGL	Monongahela Formation
54	321PSLVU	Upper Pennsylvanian Series
54	324ALGN	Allegheny Formation
54	324PSLVM	Middle Pennsylvanian Series
54	327KNWH	Kanawha Formation
54	327NEWR	New River Formation
54	327PCNS	Pocahontas Formation
54	327PSLVL	Lower Pennsylvanian Series
54	327PSVL	Pottsville Formation
54	330MSSP	Mississippian System
54	330PRIC	Price Formation
54	331BLFD	Bluefield Formation
54	331BLPR	Bluestone and Princeton Formations
54	331BLSN	Bluestone Formation
54	331HNTN	Hinton Formation
54	331MCCK	Mauch Chunk Formation
54	331MSSPU	Mississippian, Upper
54	334GRBR	Greenbrier Limestone
54	337MCCD	Maccrady Shale
54	337MSSPL	Mississippian, Lower
54	337POCN	Pocono Formation
54	340DVNN	Devonian System
54	341BRLR	Brallier Formation
54	341CMNG	Chemung Formation
54	341DVNUM	Upper-Middle Devonian Series
54	341HMPR	Hampshire Formation
54	341HRRL	Harrell Shale
54	341MRCL	Marcellus Shale

54	344HUNT	Huntersville Chert
54	344MNMR	Mahantango and Marcellus Formations
54	344MNNG	Mahantango Formation
54	344MRCL	Marcellus Shale
54	344NDMR	Needmore Shale
54	344NHNN	Needmore and Huntersville and Onondaga and Onesquethaw Formations
54	344ONDG	Onondaga Limestone
54	344SQTW	Onesquethaw Formation
54	347DVNNL	Devonian, Lower
54	347HDBG	Helderberg Group
54	347NSCD	New Scotland Limestone
54	347NWCK	New Creek Formation
54	347ORSK	Oriskany Formation
54	347SRVR	Shriver Chert
54	350SLRN	Silurian System
54	351SLRNU	Silurian, Upper
54	351TNLY	Tonoloway Limestone
54	351TNWL	Tonoloway and Wills Creek Formations
54	351WLCK	Wills Creek Formation
54	351WLMP	Williamsport Sandstone
54	354CLNN	Clinton Formation
54	354MCKZ	Mc Kenzie Formation
54	354RKRH	Rochester and Keefer and Rose Hill Formations
54	354RSHL	Rose Hill Formation
54	354SLRNM	Silurian, Middle
54	357SLRNL	Silurian, Lower
54	357TCRR	Tuscarora Sandstone
54	360ODVC	Ordovician System
54	361JOSG	Juniata and Oswego
54	361JUNT	Juniata Formation
54	361MRBG	Martinsburg Shale
54	361ODVCU	Ordovician, Upper
54	364CABB	Chambersburg Limestone
54	364CBBG	Chambersburg Limestone (used By Maryland)
54	364NMRK	New Market Limestone
54	364ODVCM	Ordovician, Middle
54	364STPL	St Paul Group
54	364TRNN	Trenton Limestone
54	365BKRV	Black River Formation
54	367BKMN	Beekmantown Group
54	367KNOX	Knox Dolomite
54	367ODVCL	Ordovician, Lower
54	367PBGS	Pinesburg Station Dolomite
54	367RCKR	Rockdale Run Formation
54	367SNNG	Stonehenge Formation
54	370CMBR	Cambrian System
54	371CCCG	Conococheague Group
54	371CCCGG	Conococheague Group
54	371CMBRU	Cambrian, Upper
54	374CMBRM	Cambrian, Middle
54	374ELBK	Elbrook Formation
54	377ANTM	Antietam Formation
54	377CHLH	Chilhowee Group

54	377CMBRL	Lower Cambrian Series
54	377CTSW	Catoctin and Swift Run Formations
54	377HRWV	Harpers and Weverton Formations
54	377TMSN	Tomstown Dolomite
54	377WSBR	Waynesboro Formation
54	400CTCN	Catoctin Formation
54	400PCMB	Precambrian Erathem
54	400SWFT	Swift Run Formation
54	BASEMENT	Basement
54	BEDROCK	Bedrock
55	100CNZC	Cenozoic Erathem
55	100SDGV	Sand and Gravel Aquifer
55	110CLAY	Clay (Holocene and/or Pleistocene)
55	110EOLI	Eolian Deposits
55	110EOLN	Eolian Deposits
55	110GRAV	Gravel (Holocene and/or Pleistocene)
55	110GRVL	Gravel (Holocene and/or Pleistocene)
55	110GVCL	Gravel and Clay (Holocene and/or Pleistocene)
55	110HRDP	Hardpan (Holocene and/or Pleistocene)
55	110MARL	Marl (Holocene and/or Pleistocene)
55	110PEAT	Peat (Holocene and/or Pleistocene)
55	110QRNR	Quaternary System
55	110SAND	Sand (Holocene and/or Pleistocene)
55	110SANDP	Sand (Holocene and/or Pleistocene)
55	110SDCL	Sand Clay (Holocene and/or Pleistocene)
55	110SDGV	Sand and Gravel (Holocene and/or Pleistocene)
55	110SDGVP	Sand and Gravel (Holocene and/or Pleistocene)
55	110SGVC	Sand, Gravel, and Clay (Holocene and/or Pleistocene)
55	110SILT	Silt (Holocene and/or Pleistocene)
55	111ALVM	Holocene Alluvium
55	111FILL	Fill
55	111HLCN	Holocene Series
55	111SOIL	Soil
55	112BDCL	Buried Channel Deposits
55	112BDWD	Buried Waterlaid Deposits
55	112BUDC	Buried Channel Deposits
55	112DFUD	Drift, Unsorted
55	112ICCC	Ice-Contact Deposits, Pleistocene
55	112LCSR	Lacustrine Deposits
55	112OTSH	Outwash
55	112PLSC	Pleistocene Series
55	112TILL	Till
55	112VLTR	Valley Trains, Pleistocene
55	300NEDA	Neda Formation
55	300PLZC	Paleozoic Erathem
55	300SDSL	Sandstone-Silurian Dolomite Aquifer
55	300SNDS	Sandstone Aquifer
55	300SNDSA	Sandstone Aquifer
55	300SODV	Silurian-Ordovician Systems
55	340DVNN	Devonian System
55	341ANRM	Antrim Shale
55	341DVNNU	Devonian, Upper
55	341KNWD	Kenwood Formation
55	344DVNNM	Devonian, Middle

55	344LKCC	Lake Church Formation
55	344MLWK	Milwaukee Formation
55	344TSVL	Thiensville Formation
55	347DVSL	Devonian-Silurian Systems
55	350SLDL	Silurian Dolomite Aquifer
55	350SLRN	Silurian System
55	352CYGN	Cayugan Series
55	352WUBK	Waubakee Formation
55	354WKSA	Waukesha Formation
55	355BBLF	Burnt Bluff Group
55	355BYRN	Byron Dolomite
55	355CRDL	Cordell Dolomite
55	355HDCK	Hendricks Dolomite
55	355MASQ	Manistique Formation
55	355MNSQ	Manistique Dolomite
55	355NGRN	Niagaran Series
55	355RCIN	Racine Formation
55	355SCCF	Schoolcraft Dolomite
55	358ALXD	Alexandrian Series
55	358MVLL	Mayville Limestone
55	360ODVC	Ordovician System
55	362BRAD	Brainard Member of Maquoketa Shale
55	362BRRD	Brainard Member of Maquoketa Shale
55	362CNCN	Cincinnatian Series
55	362FOAK	Fort Atkinson Limestone Member of Maquoketa Shale
55	362FRAK	Fort Atkinson Limestone Member of Maquoketa Shale
55	362MQKS	Maquoketa Shale
55	362MQKT	Maquoketa Group
55	362MQKTG	Maquoketa Group
55	362SCLS	Scales Member of Maquoketa Shale
55	365ANCL	Ancell Group
55	365CMPL	Champlainian Series
55	365DCRH	Decorah Formation
55	365DNLT	Dunleith Member of Galena Dolomite
55	365DUBQ	Dubuque Member of Galena Dolomite
55	365DUNL	Dunleith Member of Galena Dolomite
55	365GAPV	Galena-Platteville Aquifer
55	365GBRG	Guttenberg Limestone Member of Decorah Formation
55	365GLEN	Galena Formation
55	365GLND	Glenwood Formation
55	365GLPV	Galena-Platteville Aquifer
55	365GUBG	Guttenberg Limestone Member of Decorah Formation
55	365MCGG	Mcgregor Member of Platteville Formation
55	365PCNC	Pecatonica Dolomite Member of Platteville Formation
55	365PLVL	Platteville Formation
55	365QMBM	Quimbys Mill Member of Platteville Formation
55	365QUBM	Quimbys Mill Member of Platteville Formation
55	365RDSN	Readstown Member of St. Peter Sandstone
55	365SNNP	Sinnipee Group
55	365SPCF	Spechts Ferry Shale Member of Decorah Formation
55	365SPEF	Spechts Ferry Shale Member of Decorah Formation
55	365STPR	St. Peter Sandstone
55	365TONT	Tonti Member of St. Peter Sandstone
55	365WILK	Wise Lake Member of Galena Dolomite

55	365WSLK	Wise Lake Member of Galena Dolomite
55	367KNKK	Kankakee Formation
55	367OVCB	Ordovician-Cambrian Systems
55	368CNDN	Canadian Series
55	368GENO	Genoa Member of Oneota Dolomite
55	368HKRG	Hickory Ridge Member of Oneota Dolomite
55	368MDRG	Mound Ridge Member of Oneota Dolomite
55	368NERM	New Richmond Member of Shakopee Formation
55	368NRCM	New Richmond Member of Shakopee Formation
55	368ONOT	Oneota Dolomite
55	368PRDC	Prairie Du Chien Group
55	368SDRD	Stoddard Member of Oneota Dolomite
55	368SHKP	Shakopee Formation
55	368WLRV	Willow River Dolomite Member of Shakopee Formation
55	370CMBR	Cambrian System
55	372BCKE	Black Earth Member of St. Lawrence Formation
55	372BRKM	Birkmose Member of Lone Rock Formation
55	372CNVL	Coon Valley Member of the Jordan Formation
55	372DRBC	Dresbach Group
55	372ECLR	Eau Claire Formation
55	372EKMD	Elk Mound Group
55	372FRAC	Franconia Sandstone
55	372FRNC	Franconia Sandstone
55	372GALV	Galesville Member of Wonewoc Formation
55	372GLVL	Galesville Member of Wonewoc Formation
55	372IRNN	Ironston Member of Wonewoc Formation
55	372JRDN	Jordan Sandstone
55	372LODI	Lodi Member of St. Lawrence Formation
55	372LRCK	Lone Rock Formation
55	372MNSN	Mount Simon Sandstone
55	372MZMN	Mazomanie Formation
55	372NRLK	Norwalk Member of Jordan Formation
55	372RENO	Reno Member of Mazomanie Formation
55	372SCRX	St. Croixan Series
55	372SLRC	St. Lawrence Formation
55	372SNSP	Sunset Point Member of Jordan Formation
55	372TMPL	Trempealeau Group
55	372TNLC	Tunnel City Group
55	372TOMH	Tomah Member of Mazomanie Formation
55	372TRMP	Trempealeau Formation
55	372VOSR	Van Oser Member of Jordan Formation
55	372WNWC	Wonewoc Formation
55	372WUKN	Waukon Member of the Jordan Formation
55	400ALDZ	Altered or Weathered Zone
55	400BCPX	Basement Complex Aquifer
55	400BCPXA	Basement Complex Aquifer
55	400BRBO	Baraboo Formation
55	400CGLM	Conglomerate
55	400DORT	Diorite
55	400EXIG	Extrusive Igneous Rock
55	400FLSC	Felsic Rocks
55	400GBBR	Gabbro
55	400GNSS	Gneiss
55	400GRNS	Greenstone

55	400GRNT	Precambrian Granite
55	400GRSC	Greenstone Schist
55	400IRON	Iron-Formation
55	400MFIC	Mafic Rocks
55	400MIVI	Metamorphic or Intrusive Igneous Rock
55	400PCMB	Precambrian Erathem
55	400PFGL	Parfrey's Glen Formation
55	400QRTZ	Quartzite
55	400RYLT	Rhyolite
55	400SLTE	Slate
55	400SMMM	Sedimentary or Metasedimentary Rocks
55	420	Precambrian Precambrian Y
55	420BFLD	Bayfield Group
55	420CEQG	Chequamegon Formation of Bayfield Group
55	420CPHB	Copper Harbor Conglomerate
55	420CQMG	Chequamegon Sandstone
55	420DEVI	Devils Island Formation of Bayfield Group
55	420DVID	Devils Island Sandstone
55	420FRDA	Freda Formation of Oronto Group
55	420FRED	Freda Sandstone
55	420KWNW	Keweenaw Supergroup
55	420LASS	Lake Superior Sedimentary Rock
55	420LKSS	Lake Superior Sandstone Aquifer
55	420LVFL	Lava Flow Aquifer
55	420NNSC	Nonesuch Shale
55	420NOSC	Nonesuch Formation of Oronto Group
55	420ORNT	Orienta Formation
55	420ORON	Oronto Group
55	BASEMENT	Basement
55	BEDROCK	Bedrock
56	100CNZC	Cenozoic Erathem
56	110QRNR	Quaternary System
56	111ALVM	Holocene Alluvium
56	111EOLN	Eolian Deposits
56	111FILL	Fill
56	111HLCN	Holocene Series
56	111HTML	Hydrothermal Deposits
56	111KYCE	Kaycee Formation
56	111LCTN	Lacustrine Deposits
56	111LDLD	Landslide Deposits
56	111LGNG	Lighting Formation
56	111SNDD	Sand Dune Deposits
56	111SPOL	Spoil
56	111TRRC	Terrace Deposits
56	111UCRS	Ucross Formation
56	112ARVD	Arvada Formation
56	112BLKO	Bull Lake Outwash
56	112BLLK	Bull Lake Drift
56	112BSLT	Basalt
56	112BVUC	Bivouac Formation
56	112CDRG	Cedar Ridge Till
56	112DDLK	Dinwoody Lake Till
56	112EOLN	Eolian Deposits
56	112FNPS	Fenton Pass Formation

56	112GCLO	Glacial Outwash
56	112GLCL	Glacial Deposits
56	112LIDY	Leidy Formation
56	112LVCK	Lava Creek Tuff
56	112PDLO	Pinedale Outwash
56	112PLSC	Pleistocene Series
56	112PNDL	Pinedale Drift
56	112RYLT	Rhyolite Flows
56	112SCGR	Sacagewea Ridge Till
56	112SDRY	Sedimentary Rocks
56	112TRRC	Terrace Deposits
56	112YLSN	Yellowstone Group
56	120BSLT	Basalt
56	120EXTV	Extrusive Rock
56	120INTV	Intrusive Rock
56	120IRSV	Intrusive Rocks
56	120TRTR	Tertiary System
56	121BGLC	Burnt Gulch Conglomerate
56	121BRPK	Browns Park Formation
56	121CCRK	Conant Creek Tuff
56	121CNYN	Canyon Basalt
56	121CPDV	Camp Davis Formation
56	121FWKS	Fowkes Formation
56	121GLCL	Glacial Deposits
56	121GSBR	Gooseberry Member of Fowkes Formation
56	121HKBR	Huckleberry Ridge Tuff
56	121MNSN	Moonstone Formation
56	121NRPK	North Park Formation
56	121OGLL	Ogallala Formation
56	121PLCN	Pliocene Series
56	121SGIR	Shooting Iron Formation
56	121SLLK	Salt Lake Formation
56	121SPNB	Spoon Butte Beds
56	121TWNT	Teewinot Formation
56	122ARKR	Arikaree Formation
56	122BRPK	Browns Park Formation
56	122BSHP	Bishop Conglomerate
56	122CLDC	Caldwell Canyon Volcanics
56	122CLTR	Colter Formation
56	122CPDV	Camp Davis Formation
56	122MNSN	Moonstone Formation
56	122MOCN	Miocene Series
56	122NRPK	North Park Formation
56	122SRMN	Sherman Diorite
56	122TWNT	Teewinot Formation
56	123BGSD	Big Sand Draw Sandstone Lentil of White River Formation
56	123BRUL	Brule Formation of White River Group
56	123BSHP	Bishop Conglomerate
56	123BVDV	Beaver Divide Conglomerate Member of White River Formation
56	123CDRN	Chadron Formation of White River Group
56	123CLDC	Caldwell Canyon Volcanics
56	123HCRK	Hat Creek Beds
56	123OLGC	Oligocene Series

56	123STTR	Sweetwater Member of White River Formation
56	123TMNM	Tateman Mountain Gravel
56	123WGNS	Wiggins Formation
56	123WIRV	White River Formation or Group
56	123WRVR	White River Formation or Group
56	123YODR	Yoder Formation
56	124ABRK	Absaroka Volcanic Supergroup
56	124ACRS	Aycross Formation
56	124AKCK	Alkali Creek Stratum of Wind River Formation
56	124AKCT	Alkali Creek Tongue of Wasatch Formation
56	124ANGL	Angelo Member of Green River Formation
56	124BDGH	Bulldog Hollow Member of Fowkes Formation
56	124BKFK	Blacks Fork Member of Bridger Formation
56	124BKRK	Black Rock Coal Group
56	124BLPN	Bullpen Member of Wasatch Formation
56	124BRDG	Bridger Formation
56	124BRFK	Burnt Fork White Layer
56	124BSHL	Bates Hole Formation
56	124BSPG	Battle Spring Formation
56	124CDBF	Cathedral Bluffs Tongue of Wasatch Formation
56	124CDDR	Cottonwood Draw Banded Layers of Wind River Formation
56	124CHPP	Chappo Member of Wasatch Formation
56	124CKGP	Crooks Gap Conglomerate
56	124CLCK	Clear Creek Gravels
56	124CLMN	Coalmont Formation
56	124CLPK	Continental Peak Formation
56	124CNDW	Cottonwood White Layers
56	124EOCN	Eocene Series
56	124FNNL	Fontenelle Member of Green River Formation
56	124FRSO	Farson Sandstone Member of Green River Formation
56	124FSLB	Fossil Butte Member of Green River Formation
56	124FWKS	Fowkes Formation
56	124GRCV	Green Cove Beds
56	124GRNN	Greenian Series
56	124GRRV	Green River Formation
56	124HANN	Hanna Formation
56	124HBCK	Hoback Formation
56	124HRRC	Henry Ranch Member of Tepee Trail Formation
56	124HWTH	Hiawatha Member of Wasatch Formation
56	124KGBR	Kingsbury Conglomerate Member of Wasatch Formation
56	124LBRG	La Barge Member of Wasatch Formation
56	124LNEY	Laney Shale Member of Green River Formation
56	124LSCB	Lost Cabin Member of Wind River Formation
56	124LTGC	Lone Tree Gulch Ash
56	124LUMN	Luman Tongue of Green River Formation
56	124LYST	Lysite Member of Wind River Formation
56	124MCRF	Moncrief Member of Wasatch Formation
56	124NBRG	Newberger Sand (Subsurface)
56	124NFRK	New Fork Tongue of Wasatch Formation
56	124NLND	Niland Tongue of Wasatch Formation
56	124PCFK	Pitchfork Formation
56	124PSPK	Pass Peak Conglomerate
56	124RDDR	Red Desert Tongue of Wasatch Formation
56	124RMSR	Ramshorn Volcanic Series

56	124SLLM	Sillem Member of Fowkes Formation
56	124TNBS	Twin Buttes Member of Bridger Formation
56	124TPTL	Tepee Trail Formation
56	124TPTN	Tipton Shale Member of Green River Formation
56	124TTMN	Tatman Formation
56	124TUNP	Tunp Member of Wasatch Formation
56	124UINT	Uinta Formation
56	124ULM	Ulm Coal Group of Wasatch Formation
56	124WDRV	Wind River Formation
56	124WGBD	Wagon Bed Formation
56	124WGND	Wagonhound Member of Uinta Formation
56	124WGNS	Wiggins Formation
56	124WKPK	Wilkins Peak Member of Green River Formation
56	124WLSN	Wilson Sand
56	124WLWD	Willwood Formation
56	124WSHK	Washakie Formation
56	124WSTC	Wasatch Formation
56	125EVNS	Evanston Formation
56	125FRRS	Ferris Formation
56	125FRUN	Fort Union Formation
56	125HBCK	Hoback Formation
56	125HMFK	Hams Fork Conglomerate Member of Evanston Formation
56	125LEBO	Lebo Member of Fort Union Formation
56	125MNTU	Mantua Lentil of Polecat Bench Formation
56	125PCBC	Polecat Bench Formation
56	125PLCN	Paleocene Series
56	125PNYN	Pinyon Conglomerate
56	125RKBQ	Rock Bench Quarry Beds of Polecat Bench Formation
56	125SLVC	Silver Coulee Beds of Polecat Bench Formation
56	125STGN	Shotgun Member of Fort Union Formation
56	125TGRV	Tongue River Member of Fort Union Formation
56	125TULK	Tullock Member of Fort Union Formation
56	125WLMN	Waltman Shale Member of Fort Union Formation
56	200MSZC	Mesozoic Erathem
56	210CRCS	Cretaceous System
56	210SOHR	Sohare Formation
56	211ADVL	Adaville Formation
56	211ALMD	Almond Formation of Mesaverde Group
56	211ARDG	Allen Ridge Formation of Mesaverde Group
56	211ASPN	Aspen Shale
56	211BCKB	Black Buttes Coal Group
56	211BCRG	Bacon Ridge Sandstone
56	211BEFCS	Belle Fourche Shale Member of Graneros Shale
56	211BLDB	Blind Bull Formation
56	211BLFC	Belle Fourche Shale
56	211BLIR	Blair Formation of Mesaverde Group
56	211BOW	Bow Formation or Group
56	211BSIN	Basin Shale
56	211BXTR	Baxter Shale
56	211CLGG	Claggett Shale of the Montana Group
56	211CLSP	Clay Spur Bentonite Bed of Mowry Shale
56	211CMRK	Chimney Rock Tongue of Blair Formation
56	211CODY	Cody Shale
56	211CRCSU	Upper Cretaceous Series

56	211CRLL	Carlile Shale
56	211DKOT	Dakota Sandstone or Formation
56	211EGLE	Eagle Sandstone
56	211ELKB	Elk Basin Sandstone Member of Telegraph Creek Formation
56	211ERCS	Ericson Sandstone or Formation of Mesaverde Group
56	211EVRS	Everts Formation
56	211FRNR	Frontier Formation
56	211FTZG	Fitzhugh Sand (Subsurface)
56	211FXHL	Fox Hills Formation
56	211GMMN	Gammon Ferruginous Member of Pierre Shale
56	211GRER	Greenhorn Limestone
56	211GRNR	Greenhorn Limestone
56	211GRRS	Graneros Shale
56	211HCKM	Haystack Mountains Formation of Mesaverde Group
56	211HILY	Hailey Shale
56	211HLRD	Hilliard Shale or Formation
56	211HMFK	Hams Fork Conglomerate Member of Evanston Formation
56	211HRBL	Harebell Formation
56	211HYGN	Hygiene Sandstone Member of Pierre Shale
56	211ILES	Iles Formation
56	211KARA	Kara Bentonitic Member of Pierre Shale
56	211KBCK	Knobs-Cherokee Coal Group
56	211KMBL	Kimball Sand (Subsurface)
56	211LDCK	Landslide Creek Formation
56	211LNCE	Lance Formation
56	211LRMI	Laramie Formation
56	211LWIS	Lewis Shale
56	211LZRT	Lazeart Sandstone Member of Adaville Formation
56	211MDCB	Medicine Bow Formation
56	211MEVD	Mesaverde Formation or Group
56	211MMHL	Monument Hill Bentonitic Member of Pierre Shale
56	211MNCS	Mancos Shale
56	211MTTN	Mitten Black Shale Member of Pierre Shale
56	211MTTS	Meeteetse Formation
56	211MVRD	Mesaverde Formation or Group
56	211MWRY	Mowry Shale
56	211NBRR	Niobrara Formation
56	211OCTL	Outh Louie Sand (Subsurface)
56	211ORDG	Oyster Ridge Sandstone Member of Frontier Formation
56	211PDRO	Pedro Bentonite Bed of Pierre Shale
56	211PEAY	Peay Sandstone Member of Frontier Formation
56	211PINY	Piney Formation
56	211PIRR	Pierre Shale
56	211PLCK	Pool Creek Shale Member of Carlile Shale
56	211PRDG	Pine Ridge Sandstone of Mesaverde Group
56	211PRKM	Parkman Sandstone of Montana Group
56	211QULY	Quealy Formation
56	211RDBD	Red Bird Silty Member of Pierre Shale
56	211RKSP	Rock Springs Formation of Mesaverde Group
56	211RLNS	Rawlins Sandstone
56	211SNNN	Shannon Sandstone Member of Cody Shale
56	211SSSX	Sussex Sandstone Member of Cody Shale
56	211STEL	Steele Shale
56	211TCLG	Torchlight Sandstone Member of Frontier Formation

56	211TPCK	Telegraph Creek Formation
56	211TPOT	Teapot Sandstone Member of Mesaverde Formation
56	211TRNG	Torrington Member of Lance Formation
56	211TRNR	Turner Sandy Member of Carlile Shale
56	211WLCK	Wall Creek Sandstone Member of Frontier Formation
56	217ASPN	Aspen Shale or Formation
56	217BCLR	Bechler Conglomerate
56	217BECL	Bechler Conglomerate of Gannett Group
56	217BRDD	Birdhead Sandstone Member of Cloverly Formation
56	217BRRT	Barrett Shale
56	217BRRV	Bear River Formation
56	217CKVL	Cokeville Formation
56	217CLSN	Chilson Member of Lakota Formation
56	217CLSP	Clay Spur Bentonite Bed of Mowry Shale
56	217CLVL	Cloverly Formation
56	217CRCSL	Lower Cretaceous Series
56	217DRNY	Draney Limestone of Gannett Group
56	217EPRM	Ephraim Conglomerate of Gannett Group
56	217FLRV	Fall River Formation
56	217FUSN	Fuson Member of Lakota Formation
56	217GNNT	Gannett Group
56	217GRBL	Greybull Sandstone Member of Cloverly Formation
56	217HCRK	Hay Creek Formation
56	217INKR	Inyan Kara Group
56	217KYHL	Keyhole Sandstone Member of Fall River Formation
56	217LKOT	Lakota Formation
56	217MDDY	Muddy Sandstone Member of Thermopolis Shale
56	217MNST	Minnewaste Limestone Member of Lakota Formation
56	217MWRY	Mowry Shale
56	217NCSL	Newcastle Sandstone
56	217PRSN	Peterson Limestone of Gannett Group
56	217QULY	Quealy Formation
56	217SBLT	Sublette Formation
56	217SGJC	Sage Junction Formation
56	217SKCK	Skull Creek Shale
56	217SMTS	Smiths Formation
56	217TMFK	Thomas Fork Formation
56	217TMPL	Thermopolis Shale
56	220JRSC	Jurassic System
56	221CRML	Carmel Formation of San Rafael Group
56	221CRTS	Curtis Formation of San Rafael Group
56	221CSPGS	Canyon Springs Sandstone Member of Sundance Formation
56	221GPSP	Gypsum Spring Formation
56	221HLTT	Hulett Sandstone Member of Sundance Formation
56	221JRSCU	Upper Jurassic Series
56	221LAK	Lak Member of Sundance Formation
56	221MRSN	Morrison Formation
56	221PRSS	Preuss Sandstone or Redbeds
56	221RRDN	Rierdon Formation
56	221SKBV	Stockade Beaver Shale Member of Sundance Formation
56	221SNDC	Sundance Formation
56	221STMP	Stump Sandstone
56	221SWFT	Swift Formation of Ellis Group
56	221SWIF	Swift Formation of Ellis Group

56	221TCRK	Twin Creek Limestone or Formation
56	224GPSP	Gypsum Spring Formation
56	224JRSCM	Middle Jurassic Series
56	224PRSS	Preuss Sandstone or Redbeds
56	224RRDN	Rierdon Formation of Ellis Group
56	224STTH	Sawtooth Formation of Ellis Group
56	224TCRK	Twin Creek Formation
56	227JRSCL	Lower Jurassic Series
56	227NGGT	Nugget Sandstone
56	230ALCV	Alcova Limestone Member of Chugwater Formation
56	230CGTRG	Chugwater Formation or Group
56	230CRMN	Crow Mountain Sandstone Member of Chugwater Formation
56	230GSEG	Goose Egg Formation
56	230RDPK	Red Peak Member of Chugwater Formation
56	230TRSC	Triassic System
56	231ALCV	Alcova Limestone
56	231ANKR	Ankareh Shale, Formation, or Redbeds
56	231CGTR	Chugwater Formation or Group
56	231CRMN	Crow Mountain Sandstone Member of Chugwater Formation
56	231JELM	Jelm Formation
56	231PPAG	Popo Agie Member of Chugwater Formation
56	231TRSCU	Upper Triassic Series
56	231WYOP	Wyopo Formation
56	237DNDY	Dinwoody Formation
56	237ERVY	Ervay Member of Goose Egg Formation
56	237FRZT	Freezeout Shale Member of Goose Egg Formation
56	237GSEG	Goose Egg Formation
56	237LMDC	Little Medicine Member of Goose Egg Formation
56	237RDPK	Red Peak Formation
56	237SPRF	Spearfish Formation
56	237TRSCL	Lower Triassic Series
56	237TYNS	Thaynes Limestone, Formation or Group
56	237WDSD	Woodside Formation, Siltstone and/or Redbeds
56	300PLZC	Paleozoic Erathem
56	310FRNS	Franson Member or Tongue of Park City Formation
56	310GPKC	Grandeur Member or Tongue of Park City Formation
56	310GRADP	Grandeur Member or Tongue of Park City Formation
56	310MDPK	Meade Peak Phosphatic Shale Member or Tongue of
		Phosphoria Formation
56	310MNKT	Minnekahta Limestone
56	310MNLS	Minnelusa Formation (Permian and Pennsylvanian)
56	310PRKC	Park City Formation or Group
56	310PRMN	Permian System
56	310PSPR	Phosphoria Formation
56	310REX	Retort Phosphatic Shale Member or Tongue of Phosphoria
		Formation
56	310RPHP	Retort Phosphatic Shale Member of Phosphoria Formation
56	310RXCR	Rex Chert Member of Phosphoria Formation
56	310RXPP	Rex Chert Member of Phosphoria Formation
56	310SDRN	Shedhorn Sandstone
56	310TOSI	Tosi Chert Member or Tongue of Phosphoria Formation
56	311DFCL	Difficulty Shale Member of Goose Egg Formation
56	311FRLL	Forelle Limestone
56	311FRNS	Franson Member or Tongue of Park City Formation

56	311FRZT	Freezeout Tongue of Chugwater Formation
56	311GLED	Glendo Shale Member of Goose Egg Formation
56	311GLND	Glendo Shale Member of Goose Egg Formation
56	311GRDR	Grandeur Member of Park City Formation
56	311MDPK	Meade Peak Phosphatic Shale Member of Phosphoria Formation
56	311PRKC	Park City Formation
56	311PRMNU	Upper Permian Series
56	311PSPR	Phosphoria Formation
56	311RTRT	Retort Phosphatic Shale Member of Phosphoria Formation
56	311RXCR	Rex Chert Member of Phosphoria Formation
56	311SDRN	Shedhorn Sandstone
56	311TOSI	Tosi Chert Member or Tongue of Phosphoria Formation
56	317CSPR	Casper Formation
56	317CVRS	Converse Sandstone Bed of Hartville Formation
56	317FNTN	Fountain Formation
56	317FRLL	Forelle Limestone Member of Goose Egg Formation
56	317HRVL	Hartville Formation
56	317IGLD	Ingleside Formation
56	317MNKT	Minnekahta Limestone
56	317MNLS	Minnelusa Formation
56	317MRON	Maroon Formation
56	317OPCH	Opeche Shale
56	317PPSP	Pope Springs Sandstone
56	317PRMNL	Lower Permian Series
56	317SBLL	Sybillie Tongue of Phosphoria Formation
56	317STNK	Satanka Shale
56	317TOSI	Tosi Chert Member or Tongue of Phosphoria Formation
56	317TSLP	Tensleep Sandstone
56	317WLLS	Wells Formation
56	320AMSD	Amsden Formation
56	320DRWN	Darwin Sandstone Member of Amsden Formation
56	320PSLV	Pennsylvanian System
56	320QDRN	Quadrant Quartzite or Formation
56	324MRGN	Morgan Formation
56	324PSLVM	Middle Pennsylvanian Series
56	327AMSD	Amsden Formation
56	327BELL	Bell Sand (Subsurface)
56	327DRWN	Darwin Sandstone Member of Amsden Formation
56	327FRBK	Fairbank Formation
56	327PSLVL	Lower Pennsylvanian Series
56	327QDRN	Quadrant Quartzite or Formation
56	327RDVL	Round Valley Limestone
56	330EGED	Englewood Formation (Mississippian and Devonian)
56	330MSSP	Mississippian System
56	331MDSN	Madison Group (Upper and Lower Mississippian)
56	331MSNC	Mission Canyon Limestone
56	331MSSPU	Mississippian, Upper
56	337GRNS	Guernsey Formation
56	337LDGP	Lodgepole Limestone
56	337LOGP	Lodgepole Limestone
56	337MSSPL	Mississippian, Lower
56	337PHSP	Pahasapa Limestone
56	340DVNN	Devonian System

56	341DRBY	Darby Formation
56	341DVNNU	Devonian, Upper
56	341JFRS	Jefferson Formation
56	341TRFK	Three Forks Shale
56	344BRTB	Beartooth Butte Formation
56	344JEFR	Jefferson Formation
56	347BRTB	Beartooth Butte Formation
56	347DVNNL	Devonian, Lower
56	350LKTN	Laketown Dolomite
56	360DDWD	Deadwood Formation
56	360ODVC	Ordovician System
56	361BGRN	Bighorn Dolomite
56	361LIGH	Leigh Dolomite Member of Bighorn Dolomite
56	361LNDR	Lander Sandstone Member of Bighorn Dolomite
56	361ODVCU	Ordovician, Upper
56	361RDRV	Red River Formation
56	361SNMN	Stony Mountain Formation
56	361WHTD	Whitewood Dolomite
56	364ALDN	Aladdin Sandstone Member of Winnipeg Formation
56	364ICBX	Icebox Shale Member of Winnipeg Formation
56	364ODVCM	Ordovician, Middle
56	364ROGK	Roughlock Siltstone Member of Winnipeg Formation
56	364WNPG	Winnipeg Formation
56	367DDWD	Deadwood Formation
56	367ODVCL	Ordovician, Lower
56	370BKSP	Buck Spring Formation
56	370CMBR	Cambrian System
56	371BKSP	Buck Spring Formation
56	371BYSN	Boysen Formation
56	371CMBRU	Cambrian, Upper
56	371GLTN	Gallatin Limestone or Formation
56	371GRVR	Gros Ventre Formation
56	371OPDR	Open Door Limestone
56	371PLGM	Pilgrim Limestone
56	371SNRG	Snowy Range Formation
56	374CMBRM	Cambrian, Middle
56	374DCNN	Death Canyon Member of Gros Ventre Formation
56	374DPSS	Depass Formation
56	374FLTD	Flathead Quartzite or Sandstone
56	374GRVR	Gros Ventre Formation
56	374MGHR	Meagher Limestone
56	374PARK	Park Shale
56	374WLSY	Wolsey Shale or Formation
56	400PCMB	Precambrian Erathem
56	BASEMENT	Basement
56	BEDROCK	Bedrock
60	100CLRB	Coralline Rubble Deposits
60	100CNZC	Cenozoic Erathem
60	100LMSN	Limestone
60	110QRNR	Quaternary System
60	111ALVM	Holocene Alluvium
60	111ALVT	Alluvial and Talus Deposits
60	111AUNU	Aunuu Tuff
60	111BECH	Beach Deposits

60	111CSRB	Calcareous Sand and Rubble Deposits
60	111LEON	Leone Volcanics, Undifferentiated
60	111LNAS	Leone Volcanics, Ash Deposits
60	111LNCC	Leone Volcanics, Cinder Cones
60	111LNLF	Leone Volcanics, Lava Flows
60	111LNTF	Leone Volcanics, Tuff Deposits
60	111OFTF	Ofu Volcanic Rocks, Tuff Deposits
60	111SWMP	Swamp Deposits
60	111TULF	Tua Volcanic Rocks, Lava Flows
60	111TUTF	Tua Volcanic Rocks, Tuff Deposits
60	112AFON	Afono Trachyte
60	112LEIL	Leila Trachyte
60	112LFLF	Lefulufulua Trachyte
60	112MTFO	Matafao Trachyte
60	112OFLF	Ofu Volcanic Rock, Lava Flows
60	112OGLF	Olosega Volcanic Rock, Lava Flows
60	112PIOA	Pioa Trachyte
60	112PLSC	Pleistocene Series
60	112PPTL	Papatele Trachyte
60	112TAU	Tau Trachyte
60	112VATI	Vatia Trachyte
60	120TRTR	Tertiary System
60	121ALFU	Alofau Volcanics, Undifferentiated
60	121MSFU	Masefau Dike Complex
60	121OLMN	Olomoana Volcanics, Undifferentiated
60	121PAGOE	Pago Volcanic Series, Extra-Caldera Volcanics, Undifferentiated
60	121PAGOI	Pago Volcanic Series, Intra-Caldera Volcanics, Undifferentiated
60	121PLCN	Pliocene Series
60	121TPTP	Taputapu Volcanics, Undifferentiated, Lava Flows, Tuff and Cinder Cone
60	BASEMENT	Basement
60	BEDROCK	Bedrock
66	100LMSN	Limestone
66	100VLCC	Volcanic Rocks
68	100CLRB	Coralline Rubble Deposits
71	100CLRB	Coralline Rubble Deposits
71	100CNZC	Cenozoic Erathem
71	100LMSN	Limestone
71	111BECH	Beach Deposits
71	BASEMENT	Basement
71	BEDROCK	Bedrock
72	100ALVT	Alluvium and Talus
72	100CNZC	Cenozoic Erathem
72	110CEBP	Coastal Embayment Aquifers, Puerto Rico
72	110CGJV	Caguas-Juncos Valley Alluvial Aquifer
72	110CYVL	Cayey Valley Alluvial Aquifer
72	110EPRZ	Esperanza Alluvial Aquifer
72	110GUNC	Guanica Alluvial Aquifer
72	110GYNL	Guayanilla Alluvial Aquifer
72	110HNGB	Humacao-Naguabo Alluvial Aquifer
72	110LJVL	Lajas Vallay
72	110MUNB	Maunabo Alluvial Aquifer

72	110QRNR	Quaternary System
72	110RCBV	Rio Culebrinas Valley Aquifer
72	110RGAV	Rio Grande De Anasco Valley Alluvial Aquifer
72	110RGJV	Rio Guanajibo Valley Aquifer
72	110RSRD	Rio Espiritu Santo To Rio Demajagua Alluvial Valley
Aquifers		
72	110RYZV	Rio Yaguez Valley Alluvial Aquifer
72	110SCPL	South Coastal Plain Alluvial Aquifer
72	110TLLB	Tallaboa Alluvial Aquifer
72	110YBCV	Yabucoa Valley Alluvial Aquifer
72	110YCVL	Yauco Valley Alluvial Aquifer
72	111AVMC	Alluvium, Coastal
72	111AVMV	Alluvium, Valley
72	111HLCN	Holocene Series
72	111VLAV	Valley Alluvium
72	120TRTR	Tertiary System
72	122AGUD	Aguada Limestone
72	122ALMS	Almirante Sur Sand Lentil of Cibao Formation
72	122AMMN	Aymamon Limestone
72	122CIBO	Cibao Formation
72	122CMUY	Camuy Limestone
72	122GJTC	Guajataca Member of Cibao Formation
72	122ISLM	Isla Mona Dolomite (Mono Island)
72	122JNDZ	Juana Diaz Formation
72	122LIRO	Lirio Limestone (Mono Island)
72	122MCOG	Miocene-Oligocene Series
72	122MCRB	Mucarabones Sand
72	122MNBL	Montebello Limestone Member of Cibao Formation
72	122MOCN	Miocene Series
72	122NRCSL	North Coast Limestone Aquifer, Lower
72	122NRCSU	North Coast Limestone Aquifer, Upper
72	122PONC	Ponce Limestone
72	122QBDA	Quebrada Arenas Limestone Member of Cibao Formation
72	122RIND	Rio Indio Limestone Member of Cibao Formation
72	122UPPR	Upper Member of Cibao Formation
72	123LRES	Lares Limestone of Rio Guatemala Group
72	123OLGC	Oligocene Series
72	123SSBS	San Sabastian Formation of Rio Guatemala Group
72	124EOCN	Eocene Series
72	124PLNC	Plutonic Rocks, Including Dioritic Rocks and Intrusives
72	124RPDR	Rio Piedras Siltstone
72	124VLCC	Volcanic Rocks, Including Limestone and Detrital
Material		
72	124VOLCD	Volcanic Rocks, Including Limestone and Detrital
Material		
72	210BJUR	Bajura Limestone Aquifer
72	210VLCC	Volcanic Rocks Aquifer
72	BASEMENT	Basement
72	BEDROCK	Bedrock
75	100ALVT	Alluvium and Talus
75	100BECH	Beach Deposits
75	100CNZC	Cenozoic Erathem
75	100LMSN	Limestone
75	100PRLF	Pre-Caldera Volcanic Rocks, Lava Flows

75	100PRPY	Pre-Caldera Volcanic Rocks, Pyroclastic Deposits
75	100PRVC	Pre-Caldera Volcanic Rocks, Undifferentiated
75	100PSLF	Post-Caldera Volcanic Rocks, Lava Flows
75	100PSPY	Post-Caldera Volcanic Rocks, Pyroclastic Deposits
75	100PSVC	Post-Caldera Volcanic Rocks, Undifferentiated
75	100RFID	Reef-Island Limestone
75	100RGLT	Regolith
75	100RRFB	Raised Reef and Beach Deposits
75	100VCLF	Volcanic Rocks, Lava Flows, Undifferentiated
75	100VCSM	Volcanic Rock, Pyroclastic Deposits and Associated
Sedimentary Deposit		
75	100VLCC	Volcanic Rocks
75	110QRNR	Quaternary System
75	111AFCF	Artificial Fill
75	111ALVM	Holocene Alluvium
75	111BECH	Beach Deposits
75	111EMGL	Emerged Limesands
75	111HLCN	Holocene Series
75	111MRSH	Marsh Deposits
75	111MRZO	Merizo Limestone
75	111PLLU	Peleliu Limestone
75	111SAND	Sand Deposits (Elevated or Inland From Present Beaches)
75	111SANDE	Sand Deposits (Elevated or Inland From Present Beaches)
75	111SWMP	Swamp Deposits
75	111SWSP	Salt-Water Swamp Deposits
75	112AGAN	Agana Argillaceous Member of Mariana Limestone
75	112ANYT	Alluvium, Mass-Wasting Deposits and Younger Terrace
Deposits		
75	112LTRT	Laterite
75	112MARN	Mariana Limestone, Undifferentiated
75	112MRIN	Mariana Limestone, Undifferentiated
75	112MRNM	Mariana Limestone, Main Body
75	112PALU	Palau Limestone
75	112PLSC	Pleistocene Series
75	112TNPG	Tanapag Limestone
75	120TRTR	Tertiary System
75	120VLCC	Volcanic Rocks
75	121AIRI	Airai Clay
75	121ALFN	Alifan Limestone
75	121ALFNU	Alifan Limestone, Upper Unnamed Member
75	121BRGD	Barrigada Limestone
75	121JNUM	Janum Formation
75	122BLNS	Bolanos Pyroclastic Member, Umatac Formation
75	122BONY	Bonya Limestone
75	122DNDN	Dandan Flow Member, Umatac Formation
75	122DONN	Donni Sandstone Member, Tagpochau Limestone
75	122FCPC	Facpic Volcanic Member of Umatac Formation
75	122MAP	Map Formation
75	122MCGT	Machegit Conglomerate Member, Tagpochau Limestone
75	122MMNG	Maemong Limestone Member, Umatac Formation
75	122MOCN	Miocene Series
75	122TOML	Tomil Volcanics
75	122TPPI	Tagpochau Limestone, Pure To Impure Limestone Facies
75	122UMTC	Umatac Formation, Undifferentiated

75	122VLCC	Volcanic Rocks
75	123ALMM	Alutom Formation, Main Body
75	123ALTM	Alutom Formation
75	123ARKB	Arakabesan Member of Ngeremlengui Formation
75	123FNSS	Fina-Sisu Foramtion
75	123MDRM	Medorm Member, Ngeremlengui Formation
75	123MHLC	Mahlac Member, Alutom Formation
75	123NGMD	Nghemesed Member Ngeremlengui Formation
75	123NGMG	Ngeremlengui Formation, Undifferentiated
75	123OGCE	Oligocene-Eocene Series
75	123OLGC	Oligocene Series
75	124AMLK	Aimeliik Formation
75	124BBLP	Babelthuap Formation
75	124DNSM	Densinyama Formation
75	124EOCN	Eocene Series
75	124HGMN	Hagman Formation
75	124MTNS	Matansa Limestone
75	124NGDK	Ngardok Member, Aimeliik Formation
75	124NGRL	Ngarsul Member, Aimeliik Formation
75	124SKKM	Sankakuyama Formation
75	124TINN	Tinian Pyroclastic Rocks
75	200MSZC	Mesozoic Erathem
75	200PRDT	Peridotite
75	200SRPN	Serpentinite
75	200YAP	Yap Formation
75	BASEMENT	Basement
75	BEDROCK	Bedrock
77	111HLCN	Holocene Series
77	112AGAN	Agana Argillaceous Member of Mariana Limestone
77	BASEMENT	Basement
77	BEDROCK	Bedrock
78	100CNZC	Cenozoic Erathem
78	110CEBV	Coastal Embayment Aquifers, Virgin Islands
78	110QRNR	Quaternary System
78	111ALVM	Holocene Alluvium
78	111HLCN	Holocene Series
78	120IRSV	Intrusive Rocks
78	120IVVC	Intrusive Volcanics (Includes Diorite)
78	120TRTR	Tertiary System
78	121KGSLA	Kingshill Aquifer
78	122KGSL	Kingshill Marl
78	122MOCN	Miocene Series
78	123JLSY	Jealousy Formation
78	123OLGC	Oligocene Series
78	200MSZC	Mesozoic Erathem
78	210CRCS	Cretaceous System
78	210VLCC	Volcanic Rocks Aquifer
78	211CRCSU	Upper Cretaceous Series
78	211LSNJ	Luisenhoj Formation
78	211MEGL	Mount Eagle Group
78	211ORBR	Outer Brass Limestone
78	211TUTU	Tutu Formation
78	217CRCSL	Lower Cretaceous Series
78	217WILD	Water Island Formation

78	BASEMENT	Basement
78	BEDROCK	Bedrock
96	112EVRS	Everson Interstade of Fraser Glaciation
96	112GLCV	Glacio-Fluviatile
96	112SUMS	Sumas Drift of Fraser Glaciation
96	BEDROCK	Bedrock