Section 5. Miscellaneous Record Components

Sub-Section	Description
5.1	Source agency code (C4) MANDATORY
5.2	Site identification number (C1)MANDATORY
5.3	Record type (see below) MANDATORY
5.4	Record sequence number MANDATORY
5.5	Person creating record
5.6	Date and time created
5.7	Person updating record
5.8	Date and time of last update
5.9	Record ready for Web
5.10	Remainder of record (depend on record type)

The MISCELLANEOUS record is used to store components that do not relate to a specific category. Thirteen types of these data are included, each identified by a component record type (MGDTYP). The following is a list of the component codes used in the MISCELLANEOUS data file.

Record Type	Description of Contents	Data Table Name
OWNR	Includes owner's name data	site_owner_##
OCNT	Includes owner contact data	site_contact_##
OTID	Includes other-identifier data	gw_otid_##
OTDT	Includes other-data-available data	gw_otdt_##
VIST	Includes site-visits data	gw_vist_##
LOGS	Includes geophysical logs data	gw_logs_##
NETW	Includes networks data	gw_netw_##
SPEC	Includes special-cases data	gw_spec_##
MSVL	Includes miscellaneous-values data	gw_msvl_##
COOP	Includes cooperator's data	gw_coop_##
RMKS	Includes remarks data	gw_rmks_##

The primary keys are defined as source agency, site identification number, record type, and record sequence number or water-quality record number for QUAL and QVAL; all of these entries are mandatory. Enter the first characters of the record as follows:

5.1 Source Agency Code
(MGAGY/C4 - MANDATORY PRIMARY-KEY CHAR X(5) -- agency_cd):

This is the agency that reported the data. The reporting agency is mandatory and a part of the primary key. Data for the site will not be stored if this field is blank.

5.2 Site Identification Number
(MGDID/C1 - MANDATORY PRIMARY-KEY CHAR X(15) -- site_no):

This is the 15-digit site identification (Site ID) number of the site to which the miscellaneous data applies. If the site has not been entered into the Sitefile, this operation must be completed before the miscellaneous data are input. The Site ID number is

mandatory and a part of the primary key. Data for the site will not be stored if this field is blank.

5.3 Record Type
(MGDTYP - MANDATORY SECONDARY-KEY CHAR):

The RECORD TYPE identifies the category of data included in the record. There are 13 categories with the MISCELLANEOUS data. This field is mandatory and is a secondary key. The categories are as follows:

Record Type	Description
OWNR	Owner's record (C768)
OCNT	Owner Contact (C797)
OTID	Other-identifiers record (C770)
OTDT	Other-data-available record (C772)
VIST	Site-visits record (C774)
QUAL	Field qw record entry record (C776)
QVAL	Field qw values record (C791)
LOGS	Geophysical logs record (C778)
NETW	Networks record (C780)
SPEC	Special-cases record (C782)
MSVL	Miscellaneous-values record (C784)
COOP	Cooperator's data record (C786)
RMKS	Remarks record (C788)

5.4 Record Sequence Number
(MGDSEQ - MANDATORY PRIMARY-KEY CHAR X(3)):

This is the number assigned at time of data entry to keep data by category in logical order. Water-quality records (QUAL and QVAL) use QWDATA record number in place of a sequence number; rules for establishing this number will be explained in the sections describing QUAL and QVAL data entry. This number is mandatory and a part of the primary key. The component number for the record sequence number depends on the record type as follows:

Record Type	Description	Attribute Name
OWNR	Owner's record (C718)	site_owner_nu
OCNT	Owner contact (C798)	site_contact_nu
OTID	Other-identifiers record (C736)	otid_seq_nu
OTDT	Other-data-available record (C312)	otdt_seq_nu
VIST	Site-visits record (C737)	vist_seq_nu
QUAL	Field qw record entry record (C738)	record_no
QVAL	Field qw values record (C792)	record_no
LOGS	Geophysical logs record (C739)	logs_seq_nu
NETW	Networks record (C730)	netw_seq_nu
SPEC	Special-cases record (C729)	spec_seq_nu
MSVL	Miscellaneous-values record (C313)	msvl_seq_nu
COOP	Cooperator's data record (C734)	coop_seq_nu
RMKS	Remarks record (C311)	rmks_seq_nu

5.5 Person Creating Record
(MGDCUI - CHAR X(8) in positions 28-35):

This contains the user identification of the person creating the record. Entry of the user ID is made by the NWIS software automatically. The component number for the person creating the record depends on the record type as follows:

Record Type	Description	Attribute Name
OWNR	Owner's record (C433)	site_owner_cn
OCNT	Owner contact record (C877)	site_contact_cn
OTID	Other-identifiers record (C436)	otid_cn
OTDT	Other-data-available record (C439)	otdt_cn
VIST	Site-visits record (C442)	vist_cn
QUAL	Field qw record entry record (C445)	sample_cn
QVAL	Field qw values record (C793)	result_cn
LOGS	Geophysical logs record (C448)	logs_cn
NETW	Networks record (C451)	netw_cn
SPEC	Special-cases record (C454)	soec_cn
MSVL	Miscellaneous-values record (C457)	msvl_cn
COOP	Cooperator's data record (C460)	coop_cn
RMKS	Remarks record (C463)	rmks_cn

5.6 Date and Time Created
(MGDCRD - CHAR X(14) in positions 36-49):

This contains the date and time the record was created. The date and time are entered automatically by the NWIS software. The component number for the date the record was created depends on the record type as follows:

Record Type	Description	Attribute Name
OWNR	Owner's record (C434)	site_owner_cr
OCNT	Owner contact record (C878)	site_contact_cr
OTID	Other-identifiers record (C437)	otid_cr
OTDT	Other-data-available record (C440)	otdt_cr
VIST	Site-visits record (C443)	vist_cr
QUAL	Field qw record entry record (C446)	sample_cr
QVAL	Field qw values record (C794)	result_cr
LOGS	Geophysical logs record (C449)	logs_cr
NETW	Networks record (C452)	netw_cr
SPEC	Special-cases record (C455)	spec_cr
MSVL	Miscellaneous-values record (C458)	msvl_cr
COOP	Cooperator's data record (C461)	coop_cr
RMKS	Remarks record (C464)	rmks_cr

5.7 Person Updating Record
(MGDUUI - CHAR X(8) in positions 50-57):

This contains the user identification of the person updating the record. The user ID is entered automatically by the NWIS software. The component number for the user identification of the person creating the record depends on the record type as follows:

Record Type	Description	Attribute Name
OWNR	Owner's record (C435)	site_owner_mn
OCNT	Owner contact record (C879)	site_contact_mn
OTID	Other-identifiers record (C438)	otid_mn
OTDT	Other-data-available record (C441)	otdt_mn
VIST	Site-visits record (C444)	vist_mn
QUAL	Field water-quality record (C447)	qual_mn
LOGS	Geophysical logs record (C450)	logs_mn
NETW	Networks record (C453)	netw_mn
SPEC	Special-cases record (C456)	spec_mn
MSVL	Miscellaneous-values record (C459)	msvl_mn
COOP	Cooperator's data record (C462)	coop_mn
RMKS	Remarks record (C465)	rmks_mn

5.8 Date and Time of Last Update
(MGDUPD/C769 - CHAR X(14) in positions 58-71):

This contains the date and time that the record was last updated. The date and time are entered automatically by the NWIS software. The component number for the date of last update depends on the record type as follows:

Record Type	Description	Attribute Name
OWNR	Owner's record (C769)	site_owner_md
OCNT	Owner contact record (C880)	site_contact_md
OTID	Other-identifiers record (C771)	otid_md
OTDT	Other-data-available record (C773)	otdt_md
VIST	Site-visits record (C775)	vist_md
QUAL	Field water-quality record (C777)	qual_md
LOGS	Geophysical logs record (C779)	logs_md
NETW	Networks record (C781)	netw_md
SPEC	Special-cases record (C783)	spec_md
MSVL	Miscellaneous-values record (C785)	msvl_md
COOP	Cooperator's data record (C787)	coop_md
RMKS	Remarks record (C789)	rmks_md

5.9 Record Ready for Web
(MGDWFG - CHAR X(1) in position 72):

This field contains the status and availability of a record for display on the World-Wide-Web. 'Y' is the default. Only records flagged with a 'Y' are made available on the Web. The codes and their meanings are:

Code	Meaning
Y	Yes - Record has been checked and is ready for Web display.
C	Conditional - Record has not been checked. No Web display.
P	Proprietary Record. No Web display.
L	Local use only. No Web display.

Record Type	Description	Attribute Name
OTID	Other-identifiers record (C861)	otid_web_cd
OTDT	Other-data-available record (C862)	otdt_web_cd
VIST	Site-visits record (C863)	vist_web_cd
QUAL	Field water-quality record (C864)	qual_web_cd
LOGS	Geophysical logs record (C865)	logs_web_cd
NETW	Networks record (C866)	netw_web_cd
SPEC	Special-cases record (C867)	spec_web_cd
MSVL	Miscellaneous-values record (C868)	msvl_web_cd
COOP	Cooperator's data record (C869)	coop_web_cd
RMKS	Remarks record (C870)	rmks_web_cd

5.10 Data Dependent On Record Type
(MGDATA - CHAR X(55)):

These fields are described below for each record type.

5.10.1 Owner's Record -- MGDTYP = OWNR

Data elements common to all Miscellaneous Data Records of the owner's data record are entered following the instructions in sections 5.1 through 5.9. Here is a brief review for your convenience:

    Source agency code
    Site identification number
    Record type (OWNR)
    Record sequence number
    Person creating record
    Date and time created
    Person updating record
    Date and time of last update
    Record ready for Web

If the site is used, leased, or occupied by someone other than the owner, the name and other information for the user, lessee, or tenant should be entered in the Contact's Record (*see section 5.10.2*). Enter the OWNR components as follows:

Sub-Section	Attribute Name	Description
5.10.1.1	site_owner_start_dt	Date of Ownership (C159)
5.10.1.2	site_owner_cd	Owner Type (C350)
5.10.1.3	party_nm	Owners Name (C161)
5.10.1.4	party_alias_nm	Owner Alias Name (C360)
5.10.1.5	addr_phone_no	Owners Phone Number (C351)
5.10.1.6	accs_cd	Access to Owner Name (C352)
5.10.1.7	line_1_tx	Owners Address Line 1 (C353)
5.10.1.8	line_2_tx	Owners Address Line 2 (C354)
5.10.1.9	city_nm	Owners City Name (C355)
5.10.1.10	addr_post_cd	Owners Postal Code (C356)
5.10.1.11	zip_cd	Owners Zip Code (C357)
5.10.1.12	addr_country_nm	Owners Country Name (C358)
5.10.1.13	accs_cd	Access to Owners Phone/Address (C359)

Owner information cannot be retrieved by using the GWSI retrieval software. Information about this restriction is included in "Detailed Testing" in *Chapter 8*.

5.10.1.1 Date of Ownership
(MGDODA/C159 - CHAR X(8) – site_owner_start_dt):

Enter the date that this owner acquired ownership of the well, spring, etc., or the earliest date on which this owner was known to own the source. If the day and/or month are not known, enter blanks in these spaces. Use leading zeros for month and day values less than ten. Specify all four digits of the year.

5.10.1.2 WU Owner Type
(MGDOTP/C350 - Char X(2) – site_owner_cd)

Enter the water use owner type code.

Code	Meaning
CP	Corporation
GV	Government
IN	Individual
OT	Other
UN	Unspecified
WS	Water Supplier

5.10.1.3 Owner's Name
(MGDONM/C161 - MANDATORY CHAR X(64) -- party_nm):

Enter the name of the owner. The recommended format for entering an individual's name is: last name, first name, middle initial. If a company's name will not fit into 64 characters, use meaningful abbreviations. Use of special characters '#', '=', and single quotes, are not allowed for this field. This is a mandatory entry; if a name is not specified, ownership data will not be stored.

For an existing owner stored in the database, it is possible to enter a carriage return in the name field. At the bottom of the screen an 'Alias:' prompt appears. Each unique owner name and address is associated with an alias name that is usually the same as the owner's name. You can search for an existing owner by entering any number of characters in the 'Alias:' field. The software will present owner names and addresses that partially match the characters entered and you may select one of the existing owners to be associated with the current site.

5.10.1.4 Owner's Alias Name
(MGDOAL/C360 - CHAR X(64) -- party_alias_nm):

This field is automatically populated with the information from the Owner's Name field. This component (C360) can be used during retrieval. During screen entry, the contents of this field can be searched if the name field is left blank and a carriage return is entered. See sections *5.10.1.3* and *5.10.2.2* for more information about accessing this field.

5.10.1.5 Owner's Phone Number
(MGDOPH/C351 – CHAR X(24) – addr_phone_nm):

Enter owner's phone number.

5.10.1.6 Access to Owner's Name
(MGDOPA/C352 – CHAR X(1) –accs_cd):

Enter the code that identifies user access to owner's name. The codes and their meanings are:

Code	Meaning
0	Public access
1	Cooperator
2	USGS only
3	District only
4	Proprietary

5.10.1.7 Owner's Address Line 1
(MGDOA1/C353 – CHAR X(64) – line_1_tx):

Enter first line of owner's street address. Space is provided for 64 characters in the address. If more space is needed, enter remaining address information in component C354.

5.10.1.8 Owner's Address Line 2
(MGDOA2/C354 – CHAR X(64) – line_2_tx):

Enter second line of owner's street address if necessary. Space is provided for 64 characters in the address.

5.10.1.9 Owner's City Name
(MGDOCY/C355 – CHAR X(64) – city_nm):

Enter city name in owner's address. Space is provided for 64 characters for the city name.

5.10.1.10 Owner's Postal Code
(MGDOPC/C356 – CHAR X(2) – addr_post_cd):

Enter the two-character state code abbreviation in owner's address.

5.10.1.11 Owner's Zip Code
(MGDOZC/C357 – CHAR X(10) – zip_cd):

Enter owner's postal zip code. Space is provided for up to a ten-character zip code.

5.10.1.12 Owner's Country Name
(MGDOCN/C358 – CHAR X(48) – addr_country_nm):

Enter country name in which the owner resides. Space is provided for up to a 48-character country name.

5.10.1.13 Access to Owner's Phone/Address
(MGDOAA/C359 – CHAR X(1) –accs_cd):

Enter code that identifies user access to owner address information. The codes and their meanings are:

Code	Meaning
0	Public access
1	Cooperator
2	USGS only
3	District only
4	Proprietary

5.10.2 Contact's Record -- MGDTYP = OCNT

Information on who to contact for information on or access to the site, if not the owner, is stored in the Contact's record.

Data elements common to all Miscellaneous Data Records of the contact's data record are entered following the instructions in sections 5.1 through 5.9. Here is a brief review for your convenience:

> Source agency code
> Site identification number
> Record type (OCNT)
> Record sequence number

Person creating record
Date and time created
Person updating record
Date and time of last update
Record ready for Web

Entry of the contact's data is identified by coding "OCNT" in the type of miscellaneous record. Enter the OCNT components as follows:

Sub-Section	Attribute Name	Description
5.10.2.1	site_contact_start_dt	Date of Contact (C361)
5.10.2.2	party_nm	Owner Contact Name (C362)
5.10.2.3	addr_phone_no	Owner Contact Phone Number (C363)
5.10.2.4	accs_cd	Access to Owner Contact Name (C364)
5.10.2.5	line_1_tx	Owner Contact Address Line 1 (C365)
5.10.2.6	line_2_tx	Owner Contact Address Line 2 (C366)
5.10.2.7	city_nm	Owner Contact City Name (C367)
5.10.2.8	addr_post_cd	Owner Contact Postal Code (C368)
5.10.2.9	zip_cd	Owner Contact Zip Code (C369)
5.10.2.10	addr_country_cd	Owner Contact Country Name (C370)
5.10.2.11	accs_cd	Access to Owner Contact Phone/Address (C371)

Contact information cannot be retrieved by using the GWSI retrieval software. Information about this restriction is included in "Detailed Testing" in *Chapter 8*.

5.10.2.1 Date of Contact
(MGDODA/C361 - CHAR X(8) -- site_contact_start_dt):

Enter the date that this contact was established. If the day and/or month are not known, enter blanks in these spaces. Use leading zeros for month and day values less than ten. Specify all four digits of the year.

5.10.2.2 Contact's Name
(MGDONM/C362 - MANDATORY CHAR X(64) -- party_nm):

Enter the name of the contact. The recommended format for entering an individual's name is: last name, first name, middle initial. If a company's name will not fit into 42 characters, use meaningful abbreviations. Use of special characters '#', '=', and single quotes, are not allowed for this field. This is a mandatory entry; if a name is not specified, owner contact data will not be stored.

If you would like to search the alias names already stored in the database, include no character information and enter a carriage return in the name field. At the bottom of the screen an 'Alias:' prompt appears. At this prompt, enter any number of characters in the name of interest. The software will present those entries that match the characters

entered and you may select one of those or enter your own. For more information about the alias field please see section *5.10.1.4*.

5.10.2.3 Contact's Phone Number
    (MGDOPH/C363 – CHAR X(24) – addr_phone_no):

Enter owner's contact phone number.

5.10.2.4 Access to Contact's Name
    (MGDOPA/C364 – CHAR X(1) –accs_cd):

Enter code that identifies user access to contact's name. The codes and their meanings are:

Code	Meaning
0	Public access
1	Cooperator
2	USGS only
3	District only
4	Proprietary

5.10.2.5 Contact's Address Line 1
    (MGDOA1/C365 – CHAR X(64) – line_1_tx):

Enter first line of contact's street address. Space is provided for 64 characters in the address. If more space is needed, enter remaining address information in component C354.

5.10.2.6 Contact's Address Line 2
    (MGDOA2/C366 – CHAR X(64) – line_2_tx):

Enter second line of contact's street address if necessary. Space is provided for 64 characters in the address.

5.10.2.7 Contact's City Name
    (MGDOCY/C367 – CHAR X(64) – city_nm):

Enter city name in contact's address. Space is provided for 64 characters for the city name.

5.10.2.8 Contact's Postal Code
    (MGDOPC/C368 – CHAR X(2) – addr_post_cd):

Enter the two-character state code abbreviation in contact's address.

5.10.2.9 Contact's Zip Code
(MGDOZC/C369 – CHAR X(10) – zip_cd):

Enter contact's postal zip code. Space is provided for up to ten-character zip code.

5.10.2.10 Contact's Country Name
(MGDOCN/C370 – CHAR X(48) – addr_country_cd):

Enter country name in which the contact resides. Space is provided for up to 48-character country name.

5.10.2.11 Access to Contact's Phone/Address
(MGDOCN/C371 – CHAR X(1) –accs_cd):

Enter code that identifies user access to contact's address information. The codes and their meanings are:

Code	Meaning
0	Public access
1	Cooperator
2	USGS only
3	District only
4	Proprietary

5.10.3 Other Identifiers File Record -- MGDTYP = OTID

Sub-Section	Attribute Name	Description
5.10.3.1	otid_id	Other identifier (C190) MANDATORY
5.10.3.2	assigner_nm	Assigner (C191) MANDATORY

Data elements common to all Miscellaneous Data Records of the other identifier's data record are entered following the instructions in sections 5.1 through 5.9. Here is a brief review for your convenience:

> Source agency code
> Site identification number
> Record type (OTID)
> Record sequence number
> Person creating record
> Date and time created
> Person updating record
> Date and time of last update
> Record ready for Web

The entry of other site identification numbers is identified by coding "OTID" in the type of miscellaneous record. This record provides for recording identifying numbers or

names assigned to the sites by other agencies or individuals. The COOP record provides another means of defining other site identifiers. Enter the OTID components as follows:

5.10.3.1 Other Identifier
(MGDOID/C190 - MANDATORY SECONDARY-KEY CHAR X(15) -- otid_id):

Enter the name or number by which the site is identified. This is a mandatory data element; data will not be stored if this field is blank.

5.10.3.2 Assigner
(MGDOIA/C191 - SK3 - MANDATORY CHAR X(15) -- assigner_nm):

Enter the name of the person or organization that assigned the number for the site. Space is provided for up to 15 characters. If the name is longer, use meaningful abbreviations or acronyms.

If this record is used for identifiers assigned to many sites, such as numbers assigned by the District office or by a State agency, care must be taken to ensure that the identical name, abbreviation, or acronym is used in all cases. Failure to do so will lead to problems in retrieving specific values from the record. This is a mandatory entry.

5.10.4 Other-Data-Available Record -- MGDTYP = OTDT

Sub-Section	Attribute Name	Description
5.10.4.1	otdt_tx	Other data type (C181) MANDATORY
5.10.4.2	otdt_loc_cd	Other data location (C182)
5.10.4.3	otdt_format_cd	Format of other data (C261)

Data elements common to all Miscellaneous Data Records of the other-data-available record are entered following the instructions in sections 5.1 through 5.9. Here is a brief review for your convenience:

> Source agency code
> Site identification number
> Record type (OTDT)
> Record sequence number
> Person creating record
> Date and time created
> Person updating record
> Date and time of last update
> Record ready for Web

The other-data-available record is used to indicate the availability of additional data pertinent to the site. The entry of other-data-available data is identified by coding "OTDT" in the type of miscellaneous record. Enter the OTDT components as follows:

5.10.4.1 Other Data Type
(MGDODT/C181 - MANDATORY CHAR X(38) -- otdt_tx):

Describe the type of data available for the site. Use meaningful abbreviations if needed. This field is mandatory; other available data information will not be stored if this field is blank.

5.10.4.2 Other Data Location
(MGDODL/C182 - CHAR X(1) -- otdt_loc_cd):

Enter the code that identifies the location of the data. The codes are:

Code	Meaning
C	Cooperator's office
D	District office (USGS only)
R	Reporting agency office
Z	Other (explain in remarks)

5.10.4.3 Format
(MGDODF/C261 - CHAR X(1) -- otdt_format_cd):

Enter the code that best describes the form in which the data are stored. The codes and their meanings are:

Code	Meaning
F	Files (raw data)
M	Machine readable
P	Published (report or basic data release)
Z	Other (explain in remarks)

5.10.5 Site-Visits Record -- MGDTYP = VIST

Sub-Section	Attribute Name	Description
5.10.5.1	vist_dt	Date of visit (C187) MANDATORY
5.10.5.2	vist_person_nm	Person who made visit (C188)

Data elements common to all Miscellaneous Data Records of the site-visits data record are entered following the instructions in sections 5.1 through 5.9. Here is a brief review for your convenience:

Source agency code
Site identification number
Record type (VIST)
Record sequence number
Person creating record
Date and time created
Person updating record
Date and time of last update
Record ready for Web

The site-visits record is used to record the date of the site visit and the name of the person who made the visit. If desired, this record may be repeated to keep a history of the inventory activity at the site or an indication of the data's most recent reverification.

The entry of site-visit data is identified by coding "VIST" in the type of miscellaneous record. Enter the VIST components as follows:

5.10.5.1 Date of Visit
(MGDVDT/C187 - MANDATORY CHAR X(8) -- vist_dt):

Enter the date on which the site was visited. Use leading zeros for values of day or month less than ten. Specify all four digits for the year. This entry is mandatory.

5.10.5.2 Name of Person
(MGDVPN/C188 - CHAR X(22) -- vist_person_nm):

Enter last name and the initials of the person who made the site inventory or visit. Leave a space between the last name and initials and do not include periods. For example, Charlie Arthur Brown would be entered as BROWNbCbA (b=blank).

5.10.6 Field Water-Quality Record

Entry of water-quality data is completed from GWSI by using the QWDATA menu system. Option 12 – QW Entry, available from the main GWSI menu, is a link to the QWDATA menu. Documentation for QWDATA available at: *http://wwwnwis.er.usgs.gov/nwisdocs4_3/qw/QW.user.book.html*, can be used to determine how to enter data using that sub-system of NWIS.

5.10.7 Geophysical-Logs Record -- MGDTYP = LOGS

Sub-Section	Attribute Name	Description
5.10.7.1	logs_cd	Type of Log (C199) MANDATORY
5.10.7.2	logs_top_va	Depth to Top of Logged Interval (C200)
5.10.7.3	logs_bottom_va	Depth to Bottom of Logged Interval (C201)
5.10.7.4	logs_src_cd	Source of Log Data (C202)
5.10.7.5	logs_format_cd	Format of Log Data (C225)
5.10.7.6	logs_loc_nm	Location of Log Data (C226)

Data elements common to all Miscellaneous Data Records of the geophysical-logs data record are entered following the instructions in sections 5.1 through 5.9. Here is a brief review for your convenience:

> Source agency code
> Site identification number
> Record type (LOGS)
> Record sequence number

> Person creating record
> Date and time created
> Person updating record
> Date and time of last update
> Record ready for Web

The logs record is used to enter information about types of geophysical or other logs available for the site. The entry of geophysical logs data is identified by coding "LOGS" in the type of miscellaneous record. Enter the LOGS components as follows:

5.10.7.1 Type of Log
(MGDLTY/C199 - MANDATORY SECONDARY-KEY CHAR X(2) logs_cd):

Enter the code that best describes the log type. This field is mandatory. The codes are:

Code	Meaning	Code	Meaning
	ACOUSTIC LOG		**ELECTROMAGNETIC LOG**
AS	Sonic log	MM	Magnetic log
AV	Acoustic velocity log	MS	Magnetic susceptibility log
AW	Acoustic waveform log	MI	Electromagnetic induction log
AT	Acoustic televiewer log	MD	Electromagnetic dual induction log
	CALIPER LOG	MR	Radar reflection image log
CP	Caliper log	MV	Radar direct-wave velocity log
CS	Caliper, single arm log	MA	Radar direct-wave amplitude log
CT	Caliper, three arm log		**FLUID LOG**
CM	Caliper, multiple arm log	FH	Heat-pulse flowmeter log
CA	Caliper, acoustic log	FE	Electromagnetic flowmeter log
	DRILLING LOG	FD	Doppler flowmeter log
DT	Drilling time log	FA	Radioactive tracer log
DR	Drillers log	FY	Dye tracer log
DG	Geologists log	FB	Brine tracer log
DC	Core log	FC	Fluid conductivity log
	ELECTRIC LOG	FR	Fluid resistivity log
EE	Electric log	FT	Fluid temperature log
ER	Single-point resistance log	FF	Fluid differential temperature log
EP	Spontaneous potential log	FV	Fluid velocity log
EL	Long-normal resistivity log	FS	Spinner flowmeter log
ES	Short-normal resistivity log		**NUCLEAR LOG**
ET	Lateral resistivity log	NG	Gamma log
EN	Microresistivity log	NS	Spectral gamma log
EC	Microresistivity, focused log	NA	Gamma-gamma log
EO	Microresistivity, lateral log	NN	Neutron log
ED	Dipmeter log	NT	Neutron activation log
		NM	Nuclear magnetic resonance log

Log Type Codes (continued from previous page)

Code	Meaning	Code	Meaning
	OPTICAL LOG		**COMBINATION LOG**
OV	Video log	**ZF**	Gamma, fluid resistivity, and temperature log
OF	Fisheye video log	**ZI**	Gamma and EM induction log
OS	Sidewall video log	**ZR**	Long/short normal resistivity log
OT	Optical televiewer log	**ZT**	Fluid resistivity and temperature log
	WELL CONSTRUCTION LOG	**ZM**	EM flowmeter, fluid resistivity, and temperature log
WC	Casing collar log	**ZN**	Long/short normal resistivity, and spontaneous potential log
WD	Borehole deviation log	**ZP**	Single-point resistance and spontaneous potential log
	OTHER	**ZP**	Single-point resistance and spontaneous potential log
OR	Other log	**ZE**	Gamma, long/short normal resistivity, spontaneous potential, single-point resistance, fluid resistivity, and temperature log.

5.10.7.2 Beginning Depth
(MGDLTP/C200 - CHAR X(8) -- logs_top_va):

Enter the depth to the top of the logged interval in feet below land surface.

5.10.7.3 Ending Depth
(MGDLBT/C201 - CHAR X(8) -- logs_bottom_va):

Enter the depth to the bottom of the logged interval, in feet below land surface.

5.10.7.4 Source of Log Data
(MGDLSC/C202 - CHAR X(1) -- logs_src_cd):

Enter the code that indicates who provided the information. The codes are the same as those used for source-of-depth data (SWDSRC-C29).

5.10.7.5 Format of Log Data
(MGDLFM/C225 – CHAR X(1) – logs_format_cd):

Enter the code that indicates the format in which the Log Data are stored. The codes are:

Code	Meaning
F	Files (raw data)
M	Machine readable
P	Published (report or basic data release)
Z	Other (explain in remarks)

5.10.7.6 Location of Log Data
(MGDLLC/C226 – CHAR X(64) – logs_loc_nm):

Enter a narrative description of the location of any additional geophysical logs data.

5.10.8 Networks Record -- MGDTYP = NETW

Sub-Section	Attribute Name	Description
5.10.8.1	netw_cd	Data type (QW-WL-WD) (C706) MANDATORY
5.10.8.2	netw_begin_dt	Begin year of data collection (C115) MANDATORY
5.10.8.3	netw_end_dt	End year of data collection (C116)
5.10.8.4	analyses_tp	Type of analyses (C120) (water-quality only)
5.10.8.5	netw_src_cd	Source agency for network data (C117)
5.10.8.6	netw_freq_cd	Frequency of data collection (C118)
5.10.8.7	netw_meth_cd	Method of data collection (C133) (Withdrawal only)
5.10.8.8	anal_agency_cd	Agency that analyzes samples (water-quality only) (C307)
5.10.8.9	netw_1_cd	Network—Primary (C257)
5.10.8.10	netw_2_cd	Network-Secondary (C708)

Data elements common to all Miscellaneous Data Records of the networks data record are entered following the instructions in sections 5.1 through 5.9. Here is a brief review for your convenience:

> Source agency code
> Site identification number
> Record type (NETW)
> Record sequence number
> Person creating record
> Date and time created
> Person updating record
> Date and time of last update
> Record ready for Web

The networks record is used to indicate the availability of the site as an established data-collection station for water-quality, water-level, or withdrawal data. If there are periods of significant interruption in the measurements or if the frequency of measurement changes, multiple entries may be reported to reflect the variations.

The entry of network data is identified by coding "NETW" in the type of miscellaneous record. Enter the NETW components as follows:

5.10.8.1 Type of Network
(MGDNDT/C706 - MANDATORY SECONDARY-KEY CHAR X(2) -- netw_cd):

Enter the code for the type of network. This component is mandatory for the entry of network data. The following codes are valid:

QW -Water-quality network station
WL -Water-levels network station
WD - Pumpage or withdrawals network station

5.10.8.2 Beginning Year
(MGDNBY/C115 - MANDATORY CHAR X(4) -- netw_begin_dt):

Enter the year in which the data collection began at the site. Use four digits. Begin year is mandatory; information about data collection will not be stored if this field is blank.

5.10.8.3 Ending Year
(MGDNEY/C116 - CHAR X(4) -- netw_end_dt):

Enter the year in which the data collection was ended at the site. Use four digits. If the site is currently monitored, leave this field blank.

5.10.8.4 Type of Analysis
(MGDNTY/C120 - CHAR X(2) -- analyses_tp):

Enter the code that indicates the type of water-quality data generally collected at the site. This is a two-character field; if two types of water-quality data are collected, code both. The codes and their meanings are:

Code	Meaning
A	Physical properties
B	Common ions
C	Trace elements
D	Pesticides
E	Nutrients
F	Sanitary analysis (organisms)
G	Pesticides and common ions
H	Nutrients and common ions
I	Common ions/trace elements
J	Sanitary analysis and common ions
K	Pesticides and nutrients
L	Trace elements, pesticides and nutrients
M	All or most of the above
N	Common ions, trace elements and radioactive
P	Common, trace, and physical
Z	Other (explain in remarks)

5.10.8.5 Source Agency For Network Data
(MGDNSC/C117 - CHAR X(5) -- netw_src_cd):

Enter the code identifying the principal agency responsible for collection of data. This field is mandatory only if necessary to uniquely identify the data-collection network of more than one agency.

5.10.8.6 Frequency of Collection
(MGDNFQ/C118 - CHAR X(1) -- netw_freq_cd):

Enter the code indicating frequency with which data are collected at the site. The codes and their meanings are:

Code	Frequency	Code	Frequency
A	Annually	S	Semiannually
B	Bimonthly (every 2 months)	W	Weekly
C	Continuously (recorder)	Z	Other (explain in remarks)
D	Daily	2	Every 2 years
F	Semimonthly (twice a month)	3	Every 3 years
I	Intermittently	4	Every 4 years
M	Monthly	5	Every 5 years
O	One time only	X	Every 10 years
Q	Quarterly		

5.10.8.7 Method of Collection
(MGDNMT/C133 - CHAR X(1) -- netw_meth_cd):

Enter the code indicating the method by which water-withdrawal data are collected at the site. The codes are:

Code	Meaning
C	Calculated from power-consumption records
E	Estimated
M	Metered
U	Unknown
Z	Other (explain in remarks)

5.10.8.8 Analyzing Agency
(MGDNAA/C307 - CHAR X(5) -- anal_agency_cd):

Enter up to five characters to indicate what agency performed the water-quality analyses for data from this site. *Note: This field is not attached to any data in the water-quality database. Any entries in this field should be checked against similar information entered in the QW database.*

5.10.8.9 Primary Network Site
(MGDNT1/C257 - CHAR X(1) -- netw_1_cd):

Enter one of the codes listed below to indicate the management level of the network. If more than one network for an individual agency (defined in section *Source Agency for Network Data – Section 5.10.8.5*) is entered, this field is mandatory in the GWSI database.

Following are the codes and their meanings:

Code	Meaning
1	National
2	District
3	Project
4	Cooperator

5.10.8.10 Secondary Network Site
(MGDNT2/C708 - CHAR X(1) -- netw_2_cd):

This component provides each District with an additional field to better define District-specific networks. No allowable codes are defined at the national level, and each District can define codes for their individual systems. Ignore this field if it is not needed.

5.10.9 Special-Cases Record -- MGDTYP = SPEC

Sub-Section	Attribute Name	Description
5.10.9.1	wells_nu	Number of wells/laterals in a group (C204, 220)
5.10.9.2	deepest_well_va	Depth of deepest well in group (C205)
5.10.9.3	shallowest_well_va	Depth of shallowest well in group (C206)
5.10.9.4	spec_cons_meth_cd	Method wells in group constructed (C207)
5.10.9.5	group_dia_va	Diameter of well group (C262)
5.10.9.6	ptd_len_va	Length of pond, tunnel, or drain (C209)
5.10.9.7	ptd_width_ua	Width of pond, tunnel, or drain (C210)
5.10.9.8	ptd_depth_va	Depth of pond, tunnel, or drain (C211)
5.10.9.9	ptd_bearing_va	Bearing (azimuth) of pond, tunnel, or drain (C263)
5.10.9.10	dip_va	Dip of tunnel (C264)
5.10.9.11	lateral_depth_va	Depth of lateral in collector well (C221)
5.10.9.12	lateral_len_va	Length of lateral in collector well (C222)
5.10.9.13	lateral_dia_va	Diameter of lateral in collector well (C223)
5.10.9.14	lateral_mesh_va	Mesh of screen in lateral (C224)

Data elements common to all Miscellaneous Data Records of the special-cases data record are entered following the instructions in sections 5.1 through 5.9. Here is a brief review for your convenience:

       Source agency code
       Site identification number
       Record type (SPEC)
       Record sequence number
       Person creating record
       Date and time created
       Person updating record
       Date and time of last update
       Record ready for Web

The special-cases record is used to record data about multiple wells, ponds, tunnels, drains, and laterals or collector wells. The entry of special-cases data is identified by coding "SPEC" in the type of miscellaneous record. Enter the SPEC components as follows:

5.10.9.1 Number Wells/Laterals In Group
       (MGDSWN/C204, C220 - CHAR X(3) -- wells_nu):

Enter the number of wells that make up this well group.

5.10.9.2 Depth of Deepest Well
       (MGDSWD/C205 - CHAR X(3) -- deepest_well_va):

Enter the depth of the deepest well in the group, in feet below land surface.

5.10.9.3 Depth of Shallowest Well
       (MGDSWS/C206 - CHAR X(3) -- shallowest_well_va):

Enter the depth of the shallowest well in the group, in feet below land surface.

5.10.9.4 Method Wells Constructed
       (MGDSWM/C207 - CHAR X(1) -- spec_cons_meth_cd):

Enter the code indicating the method by which the wells were constructed. The codes are:

Code	Meaning
D	Drilled
J	Jetted
V	Driven
W	Drive-wash
Z	Other

5.10.9.5 Diameter of Well Group
       (MGDSWZ/C262 - CHAR X(7) -- group_dia_va):

Enter the mean diameter of the well field, in feet; that is, the diameter of a circle that will enclose the well group.

5.10.9.6 Length of Pond, Tunnel, or Drain
(MGDSPL/C209 - CHAR X(5) -- ptd_len_va):

Enter whichever of the following is applicable (in feet): the length of a tunnel or drain, the longer dimension of a noncircular pond, or the diameter of a circular pond.

5.10.9.7 Width of Pond, Tunnel, or Drain
(MGDSPW/C210 - CHAR X(3) -- ptd_width_va):

Enter whichever of the following is applicable (in feet): the width of a drain or noncircular tunnel, the diameter of a circular tunnel, or the shorter dimension of a noncircular pond.

5.10.9.8 Depth of Pond, Tunnel, or Drain
(MGDSPD/C211 - CHAR X(3) -- ptd_depth_va):

Enter whichever of the following is applicable (in feet): the depth of a drain, the height of a noncircular tunnel, or the average depth of a pond.

5.10.9.9 Azimuth of Pond, Tunnel, or Drain
(MGDSPB/C263 - CHAR X(3) -- ptd_bearing_va):

Enter the orientation of a tunnel or drain or of the long dimension of a noncircular pond, in degrees bearing from due north. Bearings are read clockwise; from northeast is 90, south is 180, west is 270, etc.

5.10.9.10 Dip of Tunnel
(MGDSPA/C264 - CHAR X(3) -- dip_va):

Enter the dip of a tunnel in degrees above or below (-) the horizontal.

5.10.9.11 Depth to Lateral
(MGDSLD/C221 - CHAR X(3) -- lateral_depth_va):

Enter the depth to the lateral, in feet below land surface.

5.10.9.12 Length of Lateral
(MGDSLL/C222 - CHAR X(3) -- lateral_len_va):

Enter the length of the lateral, in feet.

5.10.9.13 Diameter of Lateral
(MGDSLS/C223 - CHAR X(3) -- lateral_dia_va):

Enter the diameter of the lateral, in inches.

5.10.9.14 Lateral Screen Mesh
(MGDSLM/C224 - CHAR X(3) -- lateral_mesh_va):

Enter the mesh of the lateral screen, in inches.

5.10.10 Miscellaneous Values Record -- MGDTYP = MSVL

Sub-Section	Component Name	Description
5.10.10.1	msvl_1_va	Miscellaneous value 1 (C251)
5.10.10.2	msvl_2_va	Miscellaneous value 2 (C252)
5.10.10.3	msvl_3_va	Miscellaneous value 3 (C253)
5.10.10.4	msvl_4_va	Miscellaneous value 4 (C314)

Data elements common to all Miscellaneous Data Records of the miscellaneous-values data record are entered following the instructions in sections 5.1 through 5.9. Here is a brief review for your convenience:

    Source agency code
    Site identification number
    Record type (MSVL)
    Record sequence number
    Person creating record
    Date and time created
    Person updating record
    Date and time of last update
    Record ready for Web

For those users who want to enter data that are not of national significance but are essential to their operation, the MISC VALUES record is available. The entry of miscellaneous-values data is identified by coding "MSVL" in the type of miscellaneous record. Enter the MSVL components as follows:

5.10.10.1 Miscellaneous Value One
(MGDMV1/C251 - CHAR X(7) -- msvl_1_va):

This is a real number with two numbers allowed to the right of the decimal. The value will not be edited except for format consistency.

5.10.10.2 Miscellaneous Value Two
(MGDMV2/C252 - CHAR X(11) -- msvl_2_va):

This is a character-type component. The value will not be edited except for format consistency.

5.10.10.3 Miscellaneous Value Three
    (MGDMV3/C253 - CHAR X(10) -- msvl_3_va):

This is a character-type component. The value will not be edited except for format consistency.

5.10.10.4 Miscellaneous Value Four
    (MGDMV4/C314 - CHAR X(7) -- msvl_4_va):

This is an integer component with an allowance of a length of seven digits. The value will not be edited except for format consistency.

5.10.11 Cooperator's Data Record -- MGDTYP = COOP

Sub-Section	Attribute Name	Description
5.10.11.1	Coop_site_no	Cooperator's Site ID (C213)
5.10.11.2	Registration_no_va	Contractor's registration number (C214)
5.10.11.3	Coop_stat_cd	Inspection status (C215)
5.10.11.4	Unapproved_cd	Reason unapproved (C216)
5.10.11.5	Coop_inspect_dt	Date inspected (C217)
5.10.11.6	Coop_remark_tx	Cooperator's remarks (C218)

Data elements common to all Miscellaneous Data Records of the Cooperator's Data Record are entered following the instructions in sections 5.1 through 5.9. Here is a brief review for your convenience:

    Source agency code
    Site identification number
    Record type (COOP)
    Record sequence number
    Person creating record
    Date and time created
    Person updating record
    Date and time of last update
    Record ready for Web

The Cooperator's Data Record is provided for entering data not included on other schedules. The entry of the cooperator's data is identified by coding "COOP" in the type of miscellaneous record. Enter the COOP components as follows:

5.10.11.1 Cooperator's Site ID
    (MGDCID/C213 - CHAR X(10) -- coop_site_no:

Enter the identification number used by the cooperating agency for the site, if different from the local well number.

5.10.11.2 Registration No.
(MGDCRN/C214 - CHAR X(7) -- registration_no_va):

Enter the registration or license number of the individual or firm that constructed the well or other type of site.

5.10.11.3 Inspection Status
(MGDCST/C215 - CHAR X(2) -- coop_stat_cd):

Enter a code indicating whether or not the site has been inspected and approved. Cooperators can create their own set of meaningful codes, depending on the requirements of their agency.

5.10.11.4 Reason Unapproved
(MGDCAP/C216 - CHAR X(1) -- unapproved_cd):

Enter a code indicating the reason why an inspected and unapproved site was not approved. Each cooperator can create his or her own set of meaningful codes, depending on the requirements of the agency.

5.10.11.5 Inspection Date
(MGDCIN/C217 - CHAR X(8) -- coop_inspect_dt):

Enter the date on which the site was inspected by cooperator personnel. Use leading zeros for month and day less than ten, and four digits for year.

5.10.11.6 Cooperator's Remarks
(MGDCRK/C218 - CHAR X(25) -- coop_remark_tx):

Enter any additional pertinent cooperator data.

5.10.12 Remarks Record -- MGDTYP = RMKS

Sub-Section	Attribute Name	Description
5.10.12.1	rmks_dt	Remark date (C184)
5.10.12.2	rmks_tx	Remark (C185)

Data elements common to all Miscellaneous Data Records of the remarks data record are entered following the instructions in sections 5.1 through 5.9. Here is a brief review for your convenience:

Source agency code
Site identification number
Record type (RMKS)
Record sequence number
Person creating record

Date and time created
Person updating record
Date and time of last update
Record ready for Web

The entry of remarks data is identified by coding "RMKS" in the type of miscellaneous record. Enter the RMKS components as follows:

5.10.12.1 Remark Date
(MGDRDT/C184 -CHAR(8) -- rmks_dt):

This is the date pertaining to the origin of the remark.

5.10.12.2 Remarks
(MGDRMK/C185 - CHAR X(44) -- rmks_tx):

The remarks record is provided for entering meaningful data for which no specific field is available. Data in this field will be stored exactly as punched, together with the date of entry and sequence number. Use this space to explain entries of "other" for coded fields on the schedule, and to enter any other pertinent comments about the site.

For each comment, a three-digit sequence number is required (MGDSEQ) so that individual comments in the remarks record may be deleted or modified without affecting other entries. This field is mandatory.

Establish a local procedure for formatting remarks so that they may be more usable. For example:

1. Start each remark with the number of the field it relates to in the first three or four positions of its remark.

2. Follow this with the values that uniquely identify the appropriate record occurrence, if applicable.

3. Continue the remark to subsequent entries, indenting several spaces on continuations to highlight remark beginnings.