

nawdex

NATIONAL WATER DATA EXCHANGE

INSTRUCTIONS FOR THE SUBMISSION OF DATA TO THE MASTER WATER DATA INDEX



U.S. GEOLOGICAL SURVEY
Open-File Report 83—49

INSTRUCTIONS FOR THE SUBMISSION OF DATA TO THE MASTER WATER DATA INDEX

By Owen O. Williams

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UNITED STATES DEPARTMENT OF THE INTERIOR
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GEOLOGICAL SURVEY
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INSTRUCTIONS FOR THE SUBMISSION OF DATA TO THE MASTER WATER DATA INDEX

By Owen O. Williams

ABSTRACT

The Master Water Data Index of the U.S. Geological Survey's National Water Data Exchange (NAWDEX) is a computerized data base which contains information about water data and water-related data collected at specific sites. This report contains instructions for the computerized processing of data prepared for entry into the Master Water Data Index (MWDI), as discussed in the manual entitled "Instructions for the Preparation of Data for the Master Water Data Index," which is available from the NAWDEX Program Office. Two processing procedures--the editing of data and the submission of data for storage in the Master Water Data Index--are given in this report.

INTRODUCTION

These instructions are provided for the computerized processing of data prepared for entry into the Master Water Data Index (MWDI) of the U.S. Geological Survey's National Water Data Exchange (NAWDEX). Instructions for preparing the data for entry into the MWDI are discussed in the manual entitled "Instructions for the Preparation of Data for the Master Water Data Index," which is available from the NAWDEX Program Office. Two processing procedures are provided in this report: The editing of data and the submission of data for storage in the MWDI.

EDITING OF DATA

All data must be edited prior to submitting the data for storage in the MWDI. This is accomplished by processing the data through the cataloged procedure named MWPEDIT. The MWPEDIT procedure is stored in the NAWDEX procedure library (NWDX.PROCLIB). The procedure is invoked by the following card image (EXECUTE card):

```
// EXEC MWPEDIT
```

The use of this EXECUTE card in a JOB deck is shown below.

```
Col. 1      Col. 12
•           •
//useridno JOB (---)
//PROCLIB DD DSN=NWDX.PROCLIB,DISP=SHR
// EXEC MWPEDIT
//EUP40.INFILE DD *
```

```
•
•
```

Data cards to be edited

•
•
/*
//

In this procedure, no records are created for permanent storage in the MWDI. The user can, therefore, process the data as many times as necessary to assure that they are error free.

Data Edit Reports

The cataloged procedure MWPEDIT produces three separate reports that are returned to the user. These reports are described below:

1. Data Edit Error Report.--This report presents syntactical errors found in the data including invalid data codes, invalid component numbers, and invalid transactions to be performed with the data base. An example of this report is presented in appendix A.

2. Station Number Modifications.--This report displays the old and new station numbers for all modifications made for component number 5 (Agency Station Number). This report is provided in the event necessary changes must be made by the data base administrator in component number 1 (NAWDEX ID) to keep these two components compatible. An example of this report is presented in appendix A.

3. Data Edit Control Totals - This report displays the total number of valid delete, add, and modify transactions processed for each repeating group in the data base. An example of this report is presented in appendix A.

SUBMISSION OF DATA FOR STORAGE

Data are submitted for storage in the MWDI after all syntactical errors identified by the MWPEDIT procedure have been corrected. The cataloged procedure MWSUBMIT places the submitted data in a transaction file for subsequent processing and storage in the MWDI. This procedure is stored in the NAWDEX procedure library (NWDX.PROCLIB) and is invoked by the following card image (EXECUTE card):

// EXEC MWSUBMIT

The use of this EXECUTE card in a job deck is shown below:

Col. 1 Col. 12

• •
//useridno JOB (----)
//PROCLIB DD DSN=NWDX.PROCLIB,DISP=SHR
// EXEC MWSUBMIT

//EUP40.INFILE DD *

•
•
Data Cards to be Submitted
•
•

/*
//

Data submitted for storage are not entered directly in the MWDI data base. Rather, they are placed into an interim "transaction" file that is processed by the NAWDEX Program Office on a weekly, or more frequent, schedule for storage in the MWDI. No printed reports are generated by the MWSUBMIT procedure. Output from the computer should be checked, however, to assure that all data were successfully transmitted. If the submission of data was abnormally terminated, the cause of the termination must be determined and all data that were not successfully transmitted must be resubmitted.

Post Update Reports

Users frequently wish to know the ultimate fate of the update transactions that they have submitted for storage in the MWDI. To this end, there exists a cataloged procedure entitled "MWUSEREP" which enables the user to produce reports about those transactions after the NAWDEX program has entered the data into the MWDI data base. "MWUSEREP" can produce the following reports:

- (1) DATA EDIT ERROR REPORT & UPDATE ERROR REPORT - for comparison with data edit error report received from executing the MWPEDIT procedure.
- (2) UPDATE AUDIT TRAIL - displays action taken by update program against each record.
- (3) UPDATE CONTROL TOTALS - for comparison with data edit control totals received from executing the MWPEDIT procedure.

To produce reports on sites submitted for storage in the MWDI after the Program Office has processed the data, the user should submit the following job stream.

```
//xxxxxxx JOB (---)
//ROUTE PRINT REMOTE ...
//PROCLIB DD DSN=NWDX.PROCLIB,DISP=SHR
//STEP EXEC MWUSEREP,AGENCY=name,RPTFM=zzz
//
```

The parameter "AGENCY=name" is mandatory. The value "name" should be replaced by the submitting agency's unique identifier (assigned by the NAWDEX Program Office). The value assigned by the Program Office must be coded in columns 2-6 of all data cards processed through the MWSUBMIT procedure in order to produce required reports through MWUSEREP.

The parameter "RPTFM=zzz" is optional and specifies the kind(s) of reports required. The value "zzz" should be replaced by some combination of the following letters (order is irrelevant):

- "E" - designates the data edit error and update error reports
- "A" - designates the update audit trail
- "C" - designates the update control totals report

The control totals report must always be accompanied by at least one other report. Reports that are not requested do not produce control totals. If, for instance, the update audit and update control totals reports are requested, e.g., RPTFM=AC, then the update control totals for invalid transactions will be zero. The update control totals for invalid transactions contain values from both the data edit error report and the update error report. The default value is "RPTFM=ACE."

DIAGNOSTIC MESSAGES

A variety of diagnostic messages are provided by the processing software to assist the user in identifying input, output, processing, and system problems encountered while processing data. A list of these messages and the responses to be made to them is contained in appendix B.

PROCESSING ASSISTANCE

Assistance in resolving problems encountered while processing data for storage in the Master Water Data Index may be obtained from:

Program Office
National Water Data Exchange
U. S. Geological Survey
421 National Center
Reston, Virginia 22092

Telephone: (703) 860-6031
FTS 928-6031

APPENDIX A
SAMPLE DATA EDIT REPORTS

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EDIT/UPDATE SYSTEM
DATA EDIT ERROR REPORT

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SUBMITTING AGENCY: USGS

NAWDIX ID (C1)	TRNS CODE	RG OR COMP NO	TRANSACTION VALUE	CNTRL FIELD	ERROR CODE	ERROR EXPLANATION
USGS03209850	2	0017	21		ED0017	C17 INVALID--NOT ALPHABETIC, NUMERIC OR BLANK
USGS03209850	2	0000			ED0099	MANDATORY FIELD INVALID OR MISSING--SITE NOT ADDED
USGS03209850	2	0300			ED0000	TRANS REJECTED DUE TO PREVIOUS REJECTION OF CO(SITE)
USGS03209850	2	0500			ED0000	TRANS REJECTED DUE TO PREVIOUS REJECTION OF CO(SITE)
USGS03209850	2	0600			ED0000	TRANS REJECTED DUE TO PREVIOUS REJECTION OF CO(SITE)
USGS03209850	2	0700			ED0000	TRANS REJECTED DUE TO PREVIOUS REJECTION OF CO(SITE)
USGS03248380	2	0012 W0			ED0012	C12 INVALID -- NOT IN TABLE OF VALID SITE TYPES
USGS03248380	2	0013 034			ED0013	C13 INVALID--INCORRECT COMBINATION OF NOS. 0-4
USGS03248380	2	0000			ED0099	MANDATORY FIELD INVALID OR MISSING--SITE NOT ADDED
USGS03248380	2	0300			ED0000	TRANS REJECTED DUE TO PREVIOUS REJECTION OF CO(SITE)
USGS03248380	2	0500			ED0000	TRANS REJECTED DUE TO PREVIOUS REJECTION OF CO(SITE)
USGS03248380	2	0600			ED0000	TRANS REJECTED DUE TO PREVIOUS REJECTION OF CO(SITE)
USGS03248380	2	0700			ED0000	TRANS REJECTED DUE TO PREVIOUS REJECTION OF CO(SITE)

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* ATTENTION DATA BASE ADMINISTRATOR *
THE FOLLOWING STATION NUMBERS HAVE BEEN
MODIFIED ON THE MWDI. THIS MAY REQUIRE
A NAWDEX ID (C1) MODIFICATION.

(C1)		(C5)	
SUB	NAWDEX ID	OLD STATION NUMBER	NEW STATION NUMBER
AGENCY			
AR003	AR003ARK-19	ARK-19	050019
AR003	AR003ARK8	ARK 8	050008
AR003	AR003FRA-1	FRA-1	050059
AR003	AR003FRA-4	FRA-4	050062
AR003	AR003FRA-5	FRA-5	050063
AR003	AR003QUA-1	QUA-1	050038
AR003	AR003QUA-12A	QUA-12A	050050
AR003	AR003QUA-14	QUA-14	050052
AR003	AR003QUA-2	QUA-2	050039
AR003	AR003QUA-3	QUA-3	050040
AR003	AR003QUA-4	QUA-4	050041
AR003	AR003QUS17	QUS 17	050055
AR003	AR003RED-10	RED-10	050029
AR003	AR003RED-11	RED-11	050030
AR003	AR003RED-11A	RED-11A	050031
AR003	AR003RED-11B	RED-11B	050032

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EDIT/UPDATE SYSTEM
DATA EDIT CONTROL TOTALS

* THE FOLLOWING COUNTS REFLECT THE TOTAL *
* NUMBER OF REPEATING GROUP TRANSACTIONS *
* PASSED TO THE UPDATE PROGRAM (EUP80). *

REPEAT- ING GROUP	REPEATING GROUP TYPE	TOTAL DELETES	TOTAL ADDS	TOTAL MODIFIES
0	SITE	0	0	2
100	SURFACE_WTR	0	0	0
170	SW_MODIFIERS	0	0	0
200	GROUND_WTR	0	0	0
270	GW_MODIFIERS	0	0	0
300	QUALITY_WTR	0	0	3
370	QW_MODIFIERS	0	0	0
400	BIOLOGIC_QW	0	0	0
454	BIOLOGIC_QW2	0	0	0
470	BIO_MODIFIERS	0	0	0
500	PHYSICAL_QW	0	0	5
570	PHY_MODIFIERS	0	0	0
600	SEDIMENT_QW	0	0	0
670	SED_MODIFIERS	0	0	0
700	CHEMICAL_QW	0	3	9
770	CHM_MODIFIERS	0	0	0
800	PROJECTS	0	0	0
900	NETWORKS	0	0	0
990	SITE_FUNDING	0	0	0
1000	FUNDING	0	0	0
1100	OTHR_SRC	0	0	0
1200	SOURCE_INFORMATION	0	0	0

APPENDIX B

DIAGNOSTIC MESSAGES

MASTER WATER DATA INDEX DIAGNOSTIC MESSAGES

ERROR CODE	MESSAGE	EXPLANATION	RESPONSE
S00001	A CARD TYPE OTHER THAN 1, 2, OR 3 WAS SUBMITTED TO THE PL/1 INTERNAL SORT AND WAS IGNORED.	An invalid card type was present on the input file.	Change the card type to a valid number (1, 2, or 3) and resubmit.
ED0000	TRANS REJECTED DUE TO PREVIOUS REJECTION OF C0 (SITE).	The C0 repeating group was not added to the data base because one or more of its mandatory components contain errors. Therefore, all other repeating group transactions for that site were also rejected since the site was not entered on the data base.	Correct the component in error in the C0 repeating group transaction and re-enter all transactions for that site.
ED0001	C1 INVALID--SEE DETAIL ERROR REPORT FOR POSSIBLE CAUSES.	C1 (NAWDEX ID) is invalid for one of the following reasons: 1) The operating organization portion of C1 does not match C4 (NAWDEX AGENCY)-an invalid C4 may cause this error; 2) The site identification portion of C1 contains a non-printable character.	This error caused the repeating group C0 transaction to be rejected. Correct the error in C1 and re-submit all transactions for that site.
ED0002	Cn INVALID--NOT NUMERIC OR OUT OF RANGE FOR STATE XXX.	The specified component (either C2 or C3) either contains a non-numeric character or specifies a location which is outside the latitude-longitude boundaries for the specified state code.	If the component contains a non-numeric character, correct and re-enter it. If the component is out of range for the specified state, check it against the latitude/longitude tables maintained by the NAWDEX Program Office, then correct and re-enter the component.
ED0004	Cn INVALID--NOT IN TABLE OF VALID NAWDEX AGENCIES.	The specified component is not in a table of valid NAWDEX agencies maintained by the NAWDEX Program Office.	If the component is C4, this error will cause the rejection of the entire C0 repeating group since C4 is mandatory. Make sure C4 was specified correctly. If not, correct it and re-enter all of the C0 repeating group transactions for that site. Otherwise, arrange to have the specified agency added to the proper tables and re-enter all of the C0 repeating group transactions for that site. The same rules apply to C1101 except that it is the only component in the C1100 repeating group.

MASTER WATER DATA INDEX DIAGNOSTIC MESSAGES--Continued

<u>ERROR CODE</u>	<u>MESSAGE</u>	<u>EXPLANATION</u>	<u>RESPONSE</u>
ED00005	Cn INVALID--CONTAINS NONPRINT- ABLE CHARACTER.	The specified component contains a character which is not alphabetic (A-Z), numeric (0-9), or one of the following special characters: \$%< -/.,#+_)>; '1-(Correct the component value and re-enter it.
ED00006	C6 INVALID--NOT IN ONDC AGENCY TABLE.	C6 is not in a table of valid ONDC agency codes maintained by the NAWDEX Program Office.	Make sure the value for C6 is valid. If not, correct it and re-enter C6. Otherwise, arrange to have the value added to the proper table and re-enter C6.
ED00071	Cn INVALID--NOT ALPHABETIC OR BLANK.	The specified component contains a character which is not alphabetic (A-Z) or numeric (0-9).	Correct the component value and re-enter it.
ED00008	C8 INVALID--NOT IN LIST OF VALID STATE CODES.	C8 is either greater than 99 or is not a valid code for U.S. States.	Make sure C8 is a valid FIPS State code. If not, correct the C8 value and re-enter it.
ED00009	C9 INVALID FOR STATE XXX.	The county code (C9) is not in a table of valid county codes for the specified state.	Make sure C9 is correct. If not, correct the value for C9 and re-enter it. Otherwise, contact the NAWDEX Program Office for assistance.
ED00010	Cn INVALID--NOT ALPHABETIC, NUMERIC OR BLANK.	The specified component contains a character which is not alphabetic (A-Z), numeric (0-9) or blank.	Correct the component value and re-enter it.
ED00011	C11 INVALID FOR STATE XXX.	The congressional district code (C11) is out of the range of valid C11 codes for the given state as specified in a table maintained by the NAWDEX Program Office.	Make sure C11 is correct. If not, correct the value for C11 and re-enter it.
ED00012	C12 INVALID--NOT IN TABLE OF VALID SITE TYPES	The site type (C12) is not in a table of valid site types.	Make sure the site type is correct. If not, correct and re-enter it.
ED00013	C13 INVALID--INCORRECT COMBI- NATION OF NOS. 1-4.	The basin description code (C13) is not blank and is invalid for one of the following reasons: 1) It contains a character which is not 1-4. 2) A character other than 0 occurs more than once.	Make sure the C13 value does not contain one of the above errors. If it does, correct and re-enter it.

MASTER WATER DATA INDEX DIAGNOSTIC MESSAGES--Continued

ERROR CODE	MESSAGE	EXPLANATION	RESPONSE
		<p>3) It contains both 3 and 4.</p> <p>4) The characters were not in ascending sequence.</p>	
ED0019	C19 INVALID--NOT NUMERIC OR OUT OF RANGE.	The drainage area (C19) contains a non-blank character which is not numeric (0-9) or a decimal point (.); or C19 is less than 0 or greater than 999999.99.	Make sure the C19 value does not contain one of the above errors. If it does, correct and re-enter it.
ED0020	Cn INVALID--NOT 'Y', 'N', OR BLANK.	The specified component contains a character which is not 'Y', 'N', or blank.	Correct and re-enter it.
ED0098	Cn ADD REJECTED--Cn ADDED BY PREVIOUS TRANS.	The ADD transaction for the specified repeating group was rejected because a previous ADD transaction for that repeating group within the same site (C1) has been processed.	Examine the input and make sure the correct site (C1) was coded for the duplicate repeating group, or extract the repeating group which should not have been entered and re-enter all data. If the data base has already been updated, check it to make sure the correct repeating group was entered and take appropriate action.
ED0099	C1, C4, C8, C12, OR C22 MISSING --SITE NOT ADDED.	This error should only occur when trying to add a site. NAMEX ID (C1), NAMEX AGENCY (C4), STATE (C8), SITE TYPE (C12), or STATE COUNTY (C22) is missing. This may be due to a previously detected error in one of these mandatory elements. The C0 repeating group is rejected.	Make sure C1, C4, C8, C12, and C22 were all entered and that none were in error. Then re-enter all transactions for that site.
ED0100	Ca01 OR Ca50 INVALID OR MISSING--Ca00 NOT ADDED.	The specified components are mandatory and one or possibly both are missing. This may be due to a previously detected error in one of these elements. The specified repeating group (C100, C200, or C300) is rejected. This error should occur when trying to add C100, C200, or C300.	Make sure both elements are present and coded correctly. Then re-enter all transactions for the specified repeating group.
ED0101	Ca01 INVALID YEAR--ELEMENT REJECTED.	The begin year field (C101, C201, or C301) contains a value which is not a valid year. Either the year is not numeric or not between 1800 and 2099.	Correct and re-enter it.

MASTER WATER DATA INDEX DIAGNOSTIC MESSAGES--Continued

<u>ERROR CODE</u>	<u>MESSAGE</u>	<u>EXPLANATION</u>	<u>RESPONSE</u>
ED0102	Cn02 INVALID YEAR OR LESS THAN Cn01--ELEMENT REJECTED.	The end year component (C102, C202, or C302) contains a value which is not a valid year (not numeric or between 1800 and 2099) or which is less the begin year component (C101, C201, or C301).	Re-enter the end year component making sure that it is a valid year and greater than or equal to the begin year component.
ED0107	Cn07 INVALID--NOT NUMERIC OR BLANK.	The specified component contains a character which is not numeric (0-9) or blank.	Correct and re-enter it.
ED0110.	Cn INVALID--NOT IN FREQUENCY CODE TABLE.	The specified component contains a value which is not in a table of valid frequency codes.	Make sure the frequency code is correct. If not, correct and re- enter it.
ED0111	Cn INVALID--NOT IN STAGE CODE TABLE.	The specified component contains a value which is not in a table of valid stage codes.	Make sure the stage code is correct. If not, correct and re-enter it.
ED0113	Cn INVALID--NOT IN DATA STORAGE CODE TABLE.	The specified component contains a value which is not in a table of valid storage codes.	Make sure the storage code is correct. If not, correct and re- enter it.
ED0115	C115 INVALID--NOT IN COMPLETE FLOW CODE TABLE.	The specified component (C115) contains a value which is not in a table of valid complete flow codes.	Make sure the complete flow code is correct. If not, correct and re- enter it.
ED0116	Cn INVALID--NOT IN PEAK/LOW FLOW CODE TABLE.	The specified component contains a value which is not in a table of valid peak and low flow codes.	Make sure the peak or low flow code is correct. If not, correct and re-enter it.
ED0124	Cn INVALID--NOT IN VOLUME CODE TABLE.	The specified component contains a value which is not in a table of valid volume codes.	Make sure the volume code is correct. If not, correct and re-enter it.
ED0140	Cn INVALID--NOT IN OTHER SUPPLEMENTARY CODES TABLE.	The specified component contains a value which is not in a table of valid other supplementary codes.	Make sure the other supplementary code is correct. If not, correct and re-enter it.
ED0143	Cn INVALID--NOT IN TELEMETRY CODE TABLE.	The specified component contains a value which is not in a table of valid telemetry codes.	Make sure the telemetry code is correct. If not, correct and re- enter it.
ED0145	Cn INVALID--NOT IN PURPOSE CODE TABLE.	The specified component contains a value which is not in a table of valid	Make sure the purpose code is correct.

MASTER WATER DATA INDEX DIAGNOSTIC MESSAGES--Continued

<u>ERROR CODE</u>	<u>MESSAGE</u>	<u>EXPLANATION</u>	<u>RESPONSE</u>
		purposes codes.	If not, correct and re-enter it.
ED0149	Cn INVALID--NOT IN PLANNED/ NEEDED CODE TABLE.	The specified component contains a value which is not in a table of valid planned or needed codes.	Make sure the planned or needed code is correct. If not, correct and re-enter it.
ED0150	Cn INVALID--NOT 'Y' OR 'N'.	The specified component contains a value other than 'Y'.	Make the value either 'Y' or 'N' and re-enter it.
ED0151	Cn = 'Y' INVALID WHEN END YEAR IS PRESENT.	The active flag (C150, C250, or C350) coded as 'Y' conflicts with the presence of a corresponding end year (C102, C202, or C302) in that same grouping of water data (i.e., surface water-C100).	If the group is active, omit the end year coded and re-enter the data. If the group is inactive, make the active flag 'N' and re-enter the
	data.		
ED0152	Cn = 'N' INVALID WHEN END YEAR IS BLANK.	The active flag (C150, C250, or C350) coded as 'N' conflicts with the absence of a corresponding end year (C102, C202), or C302) in that same grouping of water data (i.e., surface water-C100).	If the group is inactive, code the appropriate end year and re-enter the data. If the group is active, make the active flag 'Y' and re-enter the data.
ED0170	Cn ADD REJECTED--Cnna MANDATORY AND NOT FOUND.	An attempt was made to add the speci- fied repeating group but the indicated mandatory component was not present.	Re-enter the repeating group trans- actions including the mandatory component.
ED0199	Cn ADD REJECTED--Cn ADDED BY PREVIOUS TRANS.	An attempt to add the specified re- peating group to the data base was rejected because an add transaction for that same repeating group with the same NAUDEX ID's had already been pro- cessed in the same batch.	Determine which transactions were entered incorrectly and extract them from the batch.
ED0209	Ga09 INVALID--NOT IN AQUIFER CODES TABLE.	The specified component contains a value which is not in a table of valid aquifer codes.	Make sure the aquifer code is correct. If not, correct and re-enter it.
ED0221	Cn INVALID--NOT NUMERIC.	The specified component contains a character which is not numeric (0-9).	Correct and re-enter the value for the component.
ED0242	Cn INVALID--NOT IN MAJOR VARIATIONS CAUSE CODES TABLES.	The specified component contains a value which is not in a table of valid major variations cause codes.	Make sure the major variations cause code is correct. If not, correct and re-enter it.

MASTER WATER DATA INDEX DIAGNOSTIC MESSAGES—Continued

ERROR CODE	MESSAGE	EXPLANATION	RESPONSE
ED0450	Cn50 INVALID OR MISSING-- Cn00 NOT ADDED.	The specified component is a mandatory field but was found to be invalid or missing on an add transaction. Therefore, the specified repeating group cannot be added to the data base.	Make sure the mandatory component is present and correct, and re-enter all transactions for the rejected repeating group.
ED0454	C454 ADD REJECTED--NO DATA PASSED EDIT.	An add transaction for the specified repeating group was rejected because no valid components were found in that transaction.	Correction of errors in components which make up this repeating group will eliminate this message.
ED0800	Cn MODIFY REJECTED--Cnna BLANK.	An attempt to modify the specified repeating group was rejected because the specified component, which is the only component in that repeating group, is missing.	Re-enter the desired modification with a valid, non-blank value for the component in that repeating group. If you are trying to delete that component's value, re-enter the component as a delete (type 1) transaction.
ED0801	Cn INVALID--NOT ALPHABETIC OR NUMERIC.	The specified component contains a character which is not alphabetic (A-Z or blank) or numeric (0-9).	Correct and re-enter the data.
ED1000	C1000 ADD REJECTED--C1001, C1002, OR C1003 MISSING.	Every component (C1001, C1002, and C1003) in the C1000 repeating group is mandatory. However, one or more of those components is missing and the add transaction was therefore rejected.	Make sure C1001, C1002, and C1003 are present and contain valid values. Then re-enter all three components.
ED1001	C1000 ADD REJECTED--CONTROL FIELD MISSING.	The control field (C1001 + C1002) which identifies a unique occurrence of the C1000 repeating group was not coded and the add transaction for C1000 was therefore rejected.	Make sure the control field is entered in the appropriate card columns and re-enter all three components in the C1000 repeating group.
ED1003	C1003 INVALID--NOT IN TABLE OF VALID DISCIPLINE CODES.	C1003 contains a value which is not in a table of valid discipline codes.	Make sure the value for C1003 is correct. If not, correct and re-enter it.
ED1200	C1200 ADD REJECTED--C1201 OR C1202 MISSING.	Both components (C1201 and C1202) in the C1200 repeating group are mandatory. However, one or both are missing and the add transaction for the C1200 repeating group was therefore rejected.	Make sure both C1201 and C1202 are both present and correct, and re-enter both components.

MASTER WATER DATA INDEX DIAGNOSTIC MESSAGES--Continued

<u>ERROR CODE</u>	<u>MESSAGE</u>	<u>EXPLANATION</u>	<u>RESPONSE</u>
ED4000	Cn MODIFY REJECTED--NO DATA PASSED EDIT.	A transaction to modify the specified repeating group was rejected because no component in the repeating group transaction contains valid data.	Correct all errors in components for the specified repeating group and re-enter them.
ED4001	C1 (NAWDEX ID) CAN BE MODIFIED BY DBA ONLY.	The site unique identifier (NAWDEX ID) can be modified only with the author- ization of the Data Base Administrator.	If the NAWDEX ID must be modified, notify the DBA at the NAWDEX Program Office.
ED4004	C4 CAN BE MODIFIED BY DBA ONLY.	The NAWDEX agency (C4) can be modified only with the authorization of the Data Base Administrator.	If the NAWDEX agency must be modified, notify the DBA at the NAWDEX Program Office for assistance.
ED4021	C21 CANNOT BE MODIFIED VIA CARD INPUT--CONSULT DBA.	At attempt to enter a modification to date of last update (C21) was rejected. C21 is always modified automatically whenever data about a site is modified.	If data of last update must be modified, contact the Data Base Administrator at the NAWDEX Program Office for assistance.
ED4022	C22 CAN BE MODIFIED ONLY BY CHANGE TO C8 OR C9.	A modification to state-county (C22) was rejected because C22 is auto- matically modified whenever C8 or C9 is modified.	If state (C8) or county (C9) should be modified, make sure the appro- priate transaction is entered and C22 will be modified automatically.
ED4090	Cn MODIFY REJECTED--CONTROL FIELD MISSING	The specified repeating group could not be modified because the control field which identifies a unique occurrence of that repeating group is missing.	Make sure the field is coded correctly and re-enter the data.
ED4095	C21 NOT VALUED--TRANSACTION REJECTED.	A modify transaction for the C0 re- peating group did not contain a value for date of last update (C21).	Probably system error. Contact the NAWDEX Program Office for assistance.
ED4096	Cn MODIFY REJECTED--RETURN CODE - XX.	An unusual return code was generated when trying to locate the specified repeating group on the data base for a modify transaction.	Probably system error. Contact the NAWDEX Program Office for assistance.
ED4097	Cn MODIFY REJECTED--Cn NOT CURRENTLY ON WMDI.	An attempt to modify the components in the specified repeating group was rejected because that repeating group is not currently on the data base.	Make sure the repeating group currently exists on the data base. If not, add it. Otherwise, contact the NAWDEX Program Office for assistance.
ED4098	Cn MODIFY REJECTED--Cn	An attempt to modify elements in the	If this message occurs during the

MASTER WATER DATA INDEX DIAGNOSTIC MESSAGES—Continued

ERROR CODE	MESSAGE	EXPLANATION	RESPONSE
	DELETED BY PREVIOUS TRANS.	specified repeating group was rejected because a delete transaction for that repeating group had already been processed in the same batch.	final edit and update process the specified repeating group has been deleted from the data base and must be re-added if needed.
ED4099	Cn MODIFY REJECTED--PREVIOUS ADD FOR Cn PROCESSED.	An attempt to modify elements in the specified repeating group was rejected because an add transaction for that repeating group had already been processed in the same batch.	Re-enter the modifications in a separate batch if they are required.
ED4100	Cn02 LESS THAN Cn01--BOTH REJECTED.	The end year entered (C102, C202, or C302) is less than the begin year entered (C101, C201, or C301) and both elements were therefore rejected.	Correct either the end year or begin year and re-enter the data.
ED4101	Cn01 GREATER THAN END YEAR ON MWDI--ELEMENT REJECTED.	An attempt to modify the begin year (C101, C201, or C301) was rejected because value entered is greater than the end year (C101, C202, or C302) on the data base.	Make sure the begin year entered is less than or equal to the end year on the data base. Then correct and re-enter the value if needed.
ED4102	Cn02 LESS THAN BEGIN YEAR ON MWDI--ELEMENT REJECTED.	An attempt to modify the end year (C102, C202, or C302) was rejected because the value entered is less than the begin year (C101, C201, or C301) on the data base.	Make sure the end year entered is greater than or equal to the begin year on the data base. Then correct and re-enter the value if needed.
ED4151	Cn50 ON MWDI = 'Y' --Cn02 CANNOT BE VALUED.	An attempt to value the end year (C102, C202, or C302) was rejected because the active flag (C150, C250, or C350) on the data base indicates that the data is still active.	If the data is inactive re-enter the end year along with a transaction to change the active flag to 'N'. Otherwise, the end year was entered in error.
ED4152	Cn50 CANNOT BE MODIFIED WITHOUT Cn02 MODIFICATION	An attempt to modify the active flag (C150, C250, or C350) was rejected because there was not an appropriate corresponding change to the end year (C102, C202, or C302).	If the active flag = 'Y' also enter a delete for the end year. If the active flag = 'N' also enter the correct end year.
ED4153	Cn50 = 'Y' --Cn02 CANNOT BE VALUED--BOTH REJECTED.	An attempt to make the active flag (C150, C250, or C350) equal to 'Y' was incorrectly accompanied by a value for the end year (C102, C202, or C302).	Either make the active flag 'N' or omit the end year and re-enter the data.

MASTER WATER DATA INDEX DIAGNOSTIC MESSAGES--Continued

ERROR CODE	MESSAGE	EXPLANATION	RESPONSE
ED4154	Cn02 LESS THAN BEGIN YEAR ON MWD1--Cn02 & Cn50 REJECTED.	Modifications to the end year (C102, C202, or C302) and active flag (C150, C250, or C350) were rejected because the value entered for the end year is less than the begin year (C101, C201, or C301) on the data base.	Make sure the end year entered is greater than or equal to the begin year on the data base. Then correct and re-enter the data if needed.
ED4155	Cn50 = 'Y' --Cn02 CANNOT BE VALUED--01, 02 & 50 REJECTED.	An attempt to make the active flag (C150, C250, or C350) equal to 'Y' was incorrectly accompanied by a value for the end year (C102, C202, or C302). The begin year, end year, and active flag were all rejected.	Either make the active flag 'N' omit the end year and re-enter the data.
ED4156	Cn02 LESS THAN Cn01--01, 02 & 50 REJECTED.	The end year entered (C102, C202, or C302) is less than the begin year entered (C101, C201, or C301). The begin year, end year, and active flag were all rejected.	Correct either the end year or begin year end re-enter the data.
ED4157	Cn02 CANNOT BE DELETED WITHOUT Cn50 MODIFICATION.	An attempt to delete the end year (C102, C202, or C302) was rejected because there was not a corresponding transaction to change the active flag (C150, C250, or C350) to 'Y'.	Re-enter the end year delete transaction along with a transaction to change the active flag to 'Y'.
ED4158	Cn50 = 'N' --Cn02 CANNOT BE DELETED--02 & 50 REJECTED.	An attempt to change the active flag (C150, C250, or C350) to 'N' was incorrectly accompanied by a delete transaction for the end year (C102, C202, or C302).	If the data is active, omit the active flag modification. If the data is inactive, omit the end year delete transaction.
ED4159	Cn50 = 'N' --Cn02 CANNOT BE DELETED--01, 02 & 50 REJECTED.	An attempt to change the active flag (C150, C250, or C350) to 'N' was incorrectly accompanied by a delete transaction for the end year (C102, C202, or C302). The begin year, end year, and active flag were all rejected.	If the data is active, omit the active flag modification. If the data is inactive, omit the end year delete transaction.
ED4170	Cn70 MODIFY REJECTED--Cn71 AND Cn72 BOTH BLANK.	An attempt to modify the specified repeating group (C170, C270, or C370) was rejected because both elements in that repeating group are blank.	Make sure the elements in the specified repeating group are valued correctly and re-enter the data.

MASTER WATER DATA INDEX DIAGNOSTIC MESSAGES--Continued

<u>Error CODE</u>	<u>MESSAGE</u>	<u>EXPLANATION</u>	<u>RESPONSE</u>
ED4171	COMP IS MANDATORY AND CANNOT BE DELETED.	An attempt to delete the specified component was rejected because that component is mandatory in order for its repeating group to exist.	Omit the delete transaction for the specified component.
ED5001	INVALID SUBMITTING AGENCY	The submitting agency field is blank or contains a character which is non- printable (not numeric, alphabetic, or a special character). The transaction was rejected.	Correct the submitting agency value and re-enter the data.
ED5002	INVALID TRANSACTION CODE.	The transaction code contains a value other than 1, 2, 3, 4, Q, or T. The transaction was rejected.	Correct the transaction code and re-enter the data.
ED5003	INVALID NAWDEX ID	The NAWDEX ID (Ci) field is blank or contains a character which is non- printable (not numeric, alphabetic or a special character). The transaction was rejected.	Correct the NAWDEX ID value and re-enter the data.
ED5004	INVALID REPEATING GROUP NUMBER.	The repeating group number field con- tains a value which is not a valid repeating group number on the MWDI data base. The transaction was rejected.	Verify that the repeating group number in the transaction record is valid. If not, correct it and re- enter the data.
ED5005	INVALID SEQUENCE IN INPUT STREAM.	The input transactions are not in submitting agency, NAWDEX ID, re- peating group/component number and transaction code ascending sequence. The specified transaction was rejected.	Probably error in the preceding sort. Re-run the job or contact the NAWDEX Program Office for assistance.
ED5006	INVALID COMPONENT OR RE- PEATING GROUP NUMBER.	The repeating group/component number field contains a value which is not a valid repeating group/component number on the MWDI data base. The transaction was rejected.	Verify that the repeating group/ component number in the transaction record is valid. If not, correct it and re-enter the data.
ED5007	COMPONENT NUMBER NOT IN MWDI DATA BASE.	The component number field contains a value which is not currently on the MWDI data base. The transaction was rejected.	If the component number is invalid, correct it and re-enter the data.
ED5008	INVALID CARD TYPE FOR REPEATING GROUP/TRANSACTION	The specified card type is invalid for updating the specified repeating group	Check the users manual to verify that the above fields were specified

MASTER WATER DATA INDEX DIAGNOSTIC MESSAGES—Continued

<u>ERROR CODE</u>	<u>MESSAGE</u>	<u>EXPLANATION</u>	<u>RESPONSE</u>
	CODE.	with the specified transaction code. The transaction was rejected.	correctly. If not, correct the data and re-enter it. Otherwise, contact the NAWDEX Program Office for assistance.
ED5009	INVALID CONTROL FIELD.	The control field, which specifies the unique occurrence of the repeating group to be updated, is blank or con- tains a character which is non-printable (not numeric, alphabetic, or a special character). The transaction was re- jected.	Correct the control field value and re-enter the data.
ED5010	MORE THAN 1 TRANS. FOR THIS COMPONENT/RC--CARD REJECTED.	More than 1 transaction for the same component/repeating group was en- countered. The specified card was the rejected transaction.	Make sure the correct transaction was processed. Omit the incorrect transaction and re-enter the data.
ED5011	MORE THAN 1 TRANSACTION FOR THIS COMPONENT/RG--CARD ACCEPTED.	More than 1 transaction for the same component/repeating group was encountered. The specified card was the accepted transaction.	Make sure the correct transaction was processed. Omit the incorrect transaction and re-enter the data.
ED9100	On PREVIOUSLY DELETED--DELETE TRANS. REJECTED.	An attempt to delete the specified repeating group was rejected because that repeating group had already been deleted by a previous transaction.	None required.

